THERMAL - NEUTRON - CAPTURE GAMMA RAYS

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Thermal Neutron Capture Gamma-rays

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Thermal Neutron Capture Gamma-rays*

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INTRODUCTION

The energy and intensity of gamma rays as seen in thermal neutron capture are presented. Only those (n, γ), E=thermal, reactions for which the residual nucleus mass number is ≥ 45 are included. These correspond to evaluations published in *Nuclear Data Sheets*¹. The publication source data are contained in the *Evaluated Nuclear Structure Data File* (ENSDF)². The data presented here do not involve any additional evaluation. For details of the measurements and their references please see the evaluations for the respective mass numbers¹. Appendix I lists all the residual nuclides for which the data are included here. Appendix II gives a cumulated index to A-chain evaluations including the year of publication.

The capture gamma ray data are given in two tables - the Table I is the list of all gamma rays seen in (n, γ) reaction given in the order of increasing energy, the Table II lists the gamma rays according to the nuclide.

NOTE: As stated above the data in the Tables presented here are taken from ENSDF without any further processing and the reader should be aware that the data in some cases may not be complete. Also it is likely that some of the (n, γ) data that are available in literature may not presently be contained in ENSDF. This is particularly true for those masses for which evaluations are not too recent (see Appendix II).

EXPLANATION OF TABLES

E γ	Gamma ray energy in keV.
Nucleus	Residual nucleus in (n, γ), E=thermal.
Strongest γ	Energy of the strongest gamma ray in keV as seen in (n, γ), E=thermal, reaction. (blank when intensities are unknown.)
I γ	Photon intensity in % of the strongest gamma ray. (blank when intensity is unknown.)

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¹Mass chain evaluations are published in *Nuclear Data Sheets*, published by Academic Press Inc., New York.

²*Evaluated Nuclear Structure Data*, a computer file of evaluated nuclear structure data is maintained by the National Nuclear Data Center, Brookhaven National Laboratory, on behalf of the Nuclear Structure and Decay Data network, coordinated by the International Atomic Energy Agency, Vienna.

Table I. CAPTURE γ 's - energy sorted

Energy (keV) (χ γ)	Nucleus (Strongest γ)	Energy (keV) (χ γ)	Nucleus (Strongest γ)	Energy (keV) (χ γ)	Nucleus (Strongest γ)
0.1 (<0.1)	235U (4155.1)	30.7 (4.5)	151Nd (4487.8)	41.6 (7.7)	249Cm (1408.3)
2.3 (<0.1)	205Pb (6731.5)	30.7 (24.2)	114In (311.7)	41.8 (0.3)	170Tm (204.5)
2.6 (<0.1)	188Re (63.6)	30.9 (0.1)	235U (4155.1)	41.9 (<0.1)	160Tb (75.1)
2.7 (<0.1)	103Ru (174.0)	31.0 (0.4)	152Eu (89.8)	41.9 (<0.1)	80Br (37.1)
5.9 (<0.1)	204Tl (139.9)	31.8 (7.7)	154Eu (68.2)	42.1 (<0.1)	152Eu (89.8)
7.5 (<0.1)	134Cs (116.4)	31.8 (<0.1)	104Rh (180.9)	42.1 (0.3)	235U (4155.1)
7.5 (<0.1)	153Sm (127.3)	31.9 (0.2)	152Eu (89.8)	42.2 (0.6)	116In (273.0)
9.4 (<0.1)	166Ho (136.7)	32.1 (1.3)	152Eu (89.8)	42.2 (0.3)	153Eu (97.4)
9.8 (<0.1)	187Os (427.1)	32.2 (1.4)	104Rh (180.9)	42.2 (0.1)	177Lu (150.4)
10.6 (0.1)	152Eu (89.8)	32.3 (5.2)	142Pr (176.9)	42.5 (<0.1)	177Yb (151.6)
10.9 (0.7)	154Eu (68.2)	32.6 (9.6)	152Eu (89.8)	42.6 (<0.1)	152Eu (89.8)
11.2 (<0.1)	134Cs (116.4)	32.7 (<0.1)	154Eu (68.2)	42.8	128I
12.3	169Yb	32.8 (0.2)	80Br (37.1)	43.1 (<0.1)	152Eu (89.8)
12.6 (0.4)	152Eu (89.8)	32.8 (<0.1)	152Eu (89.8)	43.2 (<0.1)	194Ir (371.7)
12.9 (<0.1)	235U (4155.1)	33.1 (<0.1)	160Tb (75.1)	43.5 (13.3)	101Mo (180.7)
13.0 (1.0)	152Eu (89.8)	33.3 (0.7)	154Eu (68.2)	43.5 (0.5)	104Rh (180.9)
13.3 (<0.1)	73Ge (326.0)	33.7 (<0.1)	152Eu (89.8)	43.6 (0.2)	80Br (37.1)
13.3 (<0.1)	188Re (63.6)	34.4 (10.3)	114In (311.7)	43.8 (0.4)	152Eu (89.8)
13.5 (<0.1)	101Mo (180.7)	34.6	124Sb	44.1	124Sb
13.9 (<0.1)	140La (5097.9)	34.7 (3.0)	140La (5097.9)	44.2 (0.3)	134Cs (116.4)
14.2 (<0.1)	140La (5097.9)	34.7 (0.4)	152Eu (89.8)	44.4 (<0.1)	233Th (3473.0)
14.6 (2.0)	154Eu (68.2)	34.8 (0.1)	165Dy (108.2)	44.5 (<0.1)	80Br (37.1)
15.2 (<0.1)	152Eu (89.8)	35.1 (<0.1)	151Sm (5288.0)	44.9 (<0.1)	152Eu (89.8)
16.0 (<0.1)	188Re (63.6)	35.3 (1.3)	151Nd (4487.8)	45.0 (0.5)	116In (273.0)
17.0 (17.4)	52V (125.1)	35.6 (0.5)	153Sm (127.3)	45.1 (<0.1)	152Eu (89.8)
17.3 (3.3)	134Cs (116.4)	35.8 (6.1)	198Au (214.8)	45.2 (<0.1)	236U (642.2)
17.9 (0.2)	152Eu (89.8)	35.8 (1.7)	154Eu (68.2)	45.3 (1.9)	104Rh (180.9)
18.1 (<0.1)	154Eu (68.2)	35.8 (93.9)	153Sm (127.3)	45.5	108Ag
18.3 (1.1)	152Eu (89.8)	35.9 (1.0)	104Rh (180.9)	45.7 (1.2)	154Eu (68.2)
18.5 (<0.1)	154Eu (68.2)	36.0 (0.2)	152Eu (89.8)	45.8	122Sb
19.7 (1.5)	152Eu (89.8)	36.1 (0.9)	154Eu (68.2)	45.8 (0.3)	114In (311.7)
19.8 (14.5)	166Ho (136.7)	36.4 (0.3)	153Sm (127.3)	45.9 (1.8)	140La (5097.9)
20.6 (27.0)	105Ru (143.2)	36.5 (0.8)	154Eu (68.2)	45.9	179Hf
21.2 (1.3)	134Cs (116.4)	37.0 (0.5)	154Eu (68.2)	46.0 (3.9)	153Sm (127.3)
21.6 (0.2)	152Eu (89.8)	37.0 (<0.1)	134Cs (116.4)	46.0 (<0.1)	76As (165.0)
22.1 (1.4)	176Lu (71.5)	37.1 (100.0)	80Br (37.1)	46.2 (4.5)	152Eu (89.8)
22.3 (10.3)	165Dy (108.2)	37.2 (0.1)	152Eu (89.8)	46.2 (0.2)	235U (4155.1)
22.5 (0.5)	151Nd (4487.8)	37.3 (3.3)	153Sm (127.3)	46.5 (5.3)	176Lu (71.5)
22.8 (<0.1)	52V (125.1)	37.4 (<0.1)	185Os (6588.0)	46.5	210Bi
22.8 (22.1)	116In (273.0)	37.5 (0.4)	154Eu (68.2)	46.7 (0.8)	188Re (63.6)
23.4 (<0.1)	71Ge (499.8)	37.7 (<0.1)	233Th (3473.0)	46.7	175Yb
23.5 (0.4)	235U (4155.1)	37.9 (<0.1)	163Dy (351.1)	46.8 (0.3)	152Eu (89.8)
24.0 (<0.1)	134Cs (116.4)	38.1 (<0.1)	80Br (37.1)	47.2 (1.4)	187W (5261.8)
24.1 (2.5)	152Eu (89.8)	38.1 (10.9)	114In (311.7)	47.3 (3.1)	142Pr (176.9)
24.2	169Yb	38.5 (1.1)	166Ho (136.7)	47.4 (<0.1)	204Tl (139.9)
25.6 (<0.1)	187Os (427.1)	38.6 (<0.1)	80Br (37.1)	47.4 (0.1)	152Eu (89.8)
25.7 (<0.1)	151Sm (5288.0)	38.6 (0.1)	163Dy (351.1)	47.4 (0.8)	153Eu (97.4)
26.6 (100.0)	56Mn (26.6)	38.7 (3.3)	134Cs (116.4)	47.6 (0.3)	235U (4155.1)
27.2	128I	38.7 (1.8)	170Tm (204.5)	47.7 (0.2)	170Tm (204.5)
27.5 (2.0)	154Eu (68.2)	38.7 (0.1)	235U (4155.1)	47.7 (0.1)	163Dy (351.1)
27.6 (26.4)	169Er (429.9)	38.7 (5.3)	176Lu (71.5)	47.8 (9.9)	182Ta (270.4)
27.8 (0.3)	154Eu (68.2)	38.8 (0.5)	154Eu (68.2)	48.0 (0.6)	166Ho (136.7)
28.0 (<0.1)	51Cr (749.0)	38.8 (0.5)	152Eu (89.8)	48.3 (0.7)	114In (311.7)
28.2	210Bi	39.0 (<0.1)	151Sm (5288.0)	48.5 (<0.1)	233Th (3473.0)
28.2 (<0.1)	166Ho (136.7)	39.1 (<0.1)	233Th (3473.0)	48.8 (0.3)	134Cs (116.4)
28.3 (31.8)	153Sm (127.3)	39.1 (<0.1)	152Eu (89.8)	48.8 (0.4)	80Br (37.1)
28.5 (1.7)	140La (5097.9)	39.2 (<0.1)	163Dy (351.1)	48.9 (<0.1)	162Dy (185.0)
28.5 (0.8)	154Eu (68.2)	39.3 (1.3)	153Eu (97.4)	48.9 (0.2)	105Ru (143.2)
28.6	122Sb	39.4 (0.7)	104Rh (180.9)	49.1 (<0.1)	152Eu (89.8)
28.8 (11.5)	154Eu (68.2)	39.5 (<0.1)	165Dy (108.2)	49.3 (<0.1)	177Yb (151.6)
29.1 (0.5)	154Eu (68.2)	39.8 (3.6)	154Eu (68.2)	49.4 (48.0)	238Np (5352.0)
29.8 (1.1)	56Mn (26.6)	39.9 (0.4)	152Eu (89.8)	49.4 (0.5)	177Lu (150.4)
29.9 (0.2)	235U (4155.1)	39.9	124Sb	49.6 (<0.1)	80Br (37.1)
29.9 (0.7)	152Eu (89.8)	40.0 (0.9)	154Eu (68.2)	49.7 (0.2)	177Lu (150.4)
30.0 (23.5)	140La (5097.9)	40.1 (9.1)	249Cm (1408.3)	49.8 (<0.1)	80Br (37.1)
30.0 (0.2)	151Nd (4487.8)	40.3 (11.1)	186Re (59.0)	49.9 (37.8)	147Nd (314.7)
30.2 (0.1)	152Eu (89.8)	40.6 (1.8)	152Eu (89.8)	50.0 (0.1)	80Br (37.1)
30.4	108Ag	40.8	124Sb	50.1 (2.3)	80Br (37.1)
30.6 (1.8)	188Re (63.6)	41.2	175Yb	50.2 (0.5)	154Eu (68.2)
30.7 (0.2)	154Eu (68.2)	41.5 (14.2)	193Os (5276.0)	50.4 (0.1)	80Br (37.1)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_γ keV (χ ly)	Nucleus (Strongest γ)	E_γ keV (χ ly)	Nucleus (Strongest γ)	E_γ keV (χ ly)	Nucleus (Strongest γ)
50.4 (33.8)	165Dy (108.2)	57.2 (0.7)	154Eu (68.2)	64.0 (<0.1)	160Tb (75.1)
50.4 (<0.1)	152Eu (89.8)	57.5 (18.8)	191Os (5147.1)	64.1 (<0.1)	160Tb (75.1)
50.6 (0.9)	154Eu (68.2)	57.5 (1.2)	166Ho (136.7)	64.3 (<0.1)	152Eu (89.8)
50.7 (<0.1)	152Eu (89.8)	57.7 (6.8)	151Nd (4487.8)	64.4 (0.5)	186Re (59.0)
50.9 (0.1)	152Eu (89.8)	57.9 (<0.1)	80Br (37.1)	64.5 (0.1)	152Eu (89.8)
51.0 (1.4)	154Eu (68.2)	57.9 (0.6)	153Sm (127.3)	64.5 (2.3)	176Lu (71.5)
51.0 (0.5)	153Sm (127.3)	57.9 (1.0)	238Np (5352.0)	64.5 (8.2)	142Pr (176.9)
51.3 (0.2)	114In (311.7)	58.0 (8.9)	249Cm (1408.3)	64.6 (<0.1)	169Er (429.9)
51.3 (<0.1)	152Eu (89.8)	58.2	128I	64.6 (0.4)	152Eu (89.8)
51.4 (0.9)	77Se (238.9)	58.4 (<0.1)	152Eu (89.8)	64.6 (<0.1)	187Os (427.1)
51.4 (<0.1)	152Eu (89.8)	58.6 (9.5)	60Co (229.8)	64.8	179Hf
51.4 (51.2)	104Rh (180.9)	58.6 (1.0)	176Lu (71.5)	64.8 (<0.1)	152Eu (89.8)
51.4	124Sb	58.7 (<0.1)	80Br (37.1)	64.9 (<0.1)	151Sm (5288.0)
51.7 (0.3)	235U (4155.1)	58.9 (<0.1)	152Eu (89.8)	64.9 (0.1)	134Cs (116.4)
51.8 (0.8)	166Ho (136.7)	59.0 (100.0)	186Re (59.0)	64.9 (1.2)	154Eu (68.2)
51.8 (<0.1)	80Br (37.1)	59.1 (<0.1)	152Eu (89.8)	65.0 (0.4)	152Eu (89.8)
51.9 (0.7)	176Lu (71.5)	59.2 (<0.1)	187W (5261.8)	65.0 (0.2)	165Dy (108.2)
52.0 (4.3)	152Eu (89.8)	59.2 (0.9)	238Np (5352.0)	65.1 (2.2)	188Er (63.6)
52.0 (11.4)	46Sc (227.8)	59.2 (<0.1)	152Eu (89.8)	65.1 (5.8)	249Cm (1408.3)
52.1 (0.1)	177Lu (150.4)	59.3 (22.2)	249Cm (1408.3)	65.2 (<0.1)	152Eu (89.8)
52.2 (<0.1)	152Eu (89.8)	59.3 (<0.1)	152Eu (89.8)	65.2 (0.8)	114In (311.7)
52.5	128I	59.4 (12.8)	249Cm (1408.3)	65.3 (0.4)	152Eu (89.8)
52.5 (0.3)	152Eu (89.8)	59.4 (0.5)	153Sm (127.3)	65.3 (<0.1)	187Os (427.1)
52.6 (<0.1)	152Eu (89.8)	59.4 (0.5)	154Eu (68.2)	65.7 (<0.1)	80Br (37.1)
52.8 (<0.1)	152Eu (89.8)	59.5 (31.4)	80Br (37.1)	65.8 (<0.1)	152Eu (89.8)
52.9 (2.0)	152Eu (89.8)	59.6 (0.3)	114In (311.7)	65.8 (<0.1)	151Sm (5288.0)
52.9 (<0.1)	165Dy (108.2)	59.6 (<0.1)	160Tb (75.1)	65.8 (<0.1)	152Eu (89.8)
53.4 (0.2)	188Re (63.6)	59.7 (0.4)	152Eu (89.8)	65.9 (0.3)	152Eu (89.8)
53.5 (0.6)	151Nd (4487.8)	59.8 (0.1)	151Nd (4487.8)	66.1 (<0.1)	152Eu (89.8)
53.5 (17.3)	73Ge (326.0)	60.0 (56.1)	134Cs (116.4)	66.1 (3.6)	170Tm (204.5)
53.5 (0.1)	235U (4155.1)	60.1 (8.2)	142Pr (176.9)	66.1 (0.7)	166Ho (136.7)
53.5 (2.1)	153Sm (127.3)	60.1 (0.1)	152Eu (89.8)	66.2 (0.2)	153Sm (127.3)
53.5 (<0.1)	152Eu (89.8)	60.2 (3.5)	238Np (5352.0)	66.2 (6.7)	176Lu (71.5)
53.6 (1.0)	238Np (5352.0)	60.2 (<0.1)	185Os (6588.0)	66.4 (4.7)	198Au (214.8)
53.7 (<0.1)	177Yb (151.6)	60.3 (0.2)	154Eu (68.2)	66.4 (<0.1)	152Eu (89.8)
53.8 (0.1)	116In (273.0)	60.4 (<0.1)	80Br (37.1)	66.4 (<0.1)	177Yb (151.6)
53.9 (7.4)	86Rb (557.0)	60.4 (<0.1)	145Nd (852.8)	66.6 (<0.1)	80Br (37.1)
54.1 (0.1)	235U (4155.1)	60.5 (<0.1)	75Ge (574.7)	66.7 (<0.1)	152Eu (89.8)
54.1 (<0.1)	152Eu (89.8)	60.6 (0.6)	151Nd (4487.8)	66.7 (0.9)	154Eu (68.2)
54.2 (6.5)	153Eu (97.4)	60.9 (12.1)	86Rb (557.0)	66.8 (7.8)	249Cm (1408.3)
54.2 (9.1)	166Ho (136.7)	60.9 (66.2)	116In (273.0)	66.8 (<0.1)	152Eu (89.8)
54.4 (1.2)	154Eu (68.2)	61.0 (<0.1)	152Eu (89.8)	66.9 (5.1)	249Cm (1408.3)
54.4 (0.2)	152Eu (89.8)	61.0 (<0.1)	151Sm (5288.0)	67.0 (<0.1)	61Ni (7819.6)
54.6 (<0.1)	233Th (3473.0)	61.1 (<0.1)	152Eu (89.8)	67.0	124Sb
54.6 (2.1)	142Pr (176.9)	61.1 (1.2)	134Cs (116.4)	67.1	128I
54.7	94Nb	61.4	122Sb	67.1 (<0.1)	145Nd (852.8)
54.7 (0.8)	170Tm (204.5)	61.7 (0.5)	154Eu (68.2)	67.1 (<0.1)	80Br (37.1)
54.8	124Sb	61.8 (0.4)	46Sc (227.8)	67.2 (0.4)	152Eu (89.8)
54.8 (23.5)	140La (5097.9)	61.9 (9.2)	186Re (59.0)	67.2 (4.7)	249Cm (1408.3)
55.0 (2.6)	153Sm (127.3)	62.1 (0.1)	104Rh (180.9)	67.2 (<0.1)	152Eu (89.8)
55.0 (0.4)	152Eu (89.8)	62.2 (<0.1)	185Os (6588.0)	67.3 (7.9)	134Cs (116.4)
55.2 (<0.1)	199Au (493.5)	62.4 (<0.1)	77Se (238.9)	67.3 (0.4)	114In (311.7)
55.2 (31.2)	198Au (214.8)	62.4 (<0.1)	152Eu (89.8)	67.3 (<0.1)	152Eu (89.8)
55.3	179Hf	62.6 (0.1)	152Eu (89.8)	67.4 (<0.1)	80Br (37.1)
55.4 (<0.1)	73Ge (326.0)	62.7	169Yb	67.6	122Sb
55.4 (<0.1)	104Rh (180.9)	62.8 (0.5)	154Eu (68.2)	67.6 (2.7)	191Os (5147.1)
55.5 (0.5)	152Eu (89.8)	62.9 (0.4)	152Eu (89.8)	67.6 (<0.1)	152Eu (89.8)
55.6 (0.5)	153Sm (127.3)	63.1 (<0.1)	152Eu (89.8)	67.7 (7.8)	154Eu (68.2)
55.8 (4.9)	103Ru (143.2)	63.2 (40.8)	140La (5097.9)	67.7 (<0.1)	152Eu (89.8)
55.9 (1.3)	142Pr (176.9)	63.5 (0.6)	152Eu (89.8)	67.9 (0.2)	152Eu (89.8)
56.1 (0.2)	152Eu (89.8)	63.5 (0.2)	134Cs (116.4)	68.0 (<0.1)	152Eu (89.8)
56.2 (0.7)	152Eu (89.8)	63.6 (<0.1)	151Sm (5288.0)	68.0 (1.5)	188Re (63.6)
56.2 (1.7)	140La (5097.9)	63.6 (100.0)	186Re (63.6)	68.2 (100.0)	154Eu (68.2)
56.4 (1.9)	186Re (59.0)	63.6 (18.6)	65Ni (6034.0)	68.2 (4.0)	249Cm (1408.3)
56.5 (<0.1)	152Eu (89.8)	63.7 (0.2)	153Sm (127.3)	68.3 (5.3)	153Eu (97.4)
56.7 (<0.1)	238U (642.2)	63.7 (76.9)	160Tb (75.1)	68.3 (<0.1)	152Eu (89.8)
56.8 (0.7)	152Eu (89.8)	63.7	210Bi	68.4	179Hf
57.0 (<0.1)	233Th (3473.0)	63.7 (<0.1)	152Eu (89.8)	68.6 (4.0)	110Ag (198.7)
57.1 (8.6)	167Er (207.8)	63.9 (<0.1)	80Br (37.1)	68.6 (9.3)	142Pr (176.9)
57.2 (0.6)	166Ho (136.7)	64.0 (1.0)	170Tm (204.5)	68.6 (17.9)	170Tm (204.5)

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV ($\chi\gamma$)	Nucleus (Strongest γ)	E γ keV ($\chi\gamma$)	Nucleus (Strongest γ)	E γ keV ($\chi\gamma$)	Nucleus (Strongest γ)
68.7	124Sb	74.6 (<0.1)	169Er (429.9)	78.1	122Sb
68.7 (<0.1)	235U (4155.1)	74.6 (<0.1)	168Er (6228.8)	78.1 (<0.1)	152Eu (89.8)
68.7 (26.8)	73Ge (326.0)	74.6 (1.9)	154Eu (68.2)	78.4 (3.3)	249Cm (1408.3)
69.0 (<0.1)	152Eu (89.8)	74.7 (<0.1)	152Eu (89.8)	78.4 (0.4)	152Eu (89.8)
69.2 (2.4)	140La (5097.9)	74.7 (<0.1)	80Br (37.1)	78.5 (<0.1)	146Nd (7110.8)
69.3 (<0.1)	152Eu (89.8)	74.8 (<0.1)	162Dy (185.0)	78.5 (<0.1)	152Eu (89.8)
69.5 (0.7)	176Lu (71.5)	74.9 (15.9)	188Re (63.6)	78.6 (0.2)	152Eu (89.8)
69.6 (<0.1)	152Eu (89.8)	74.9 (<0.1)	152Eu (89.8)	78.7	94Nb
69.7 (19.3)	153Eu (97.4)	74.9	124Sb	78.7 (<0.1)	152Eu (89.8)
69.7 (<0.1)	151Sm (5288.0)	75.0 (1.0)	80Br (37.1)	78.8	172Yb
69.8 (10.2)	166Ho (136.7)	75.0 (<0.1)	152Eu (89.8)	78.8 (<0.1)	80Br (37.1)
70.0 (<0.1)	152Eu (89.8)	75.0 (<0.1)	187Os (427.1)	78.8 (<0.1)	150Sm (334.0)
70.0 (1.2)	170Tm (204.5)	75.0	169Yb	78.9 (0.2)	166Ho (136.7)
70.1 (0.3)	152Eu (89.8)	75.1 (100.0)	160Tb (75.1)	78.9 (<0.1)	160Tb (75.1)
70.4 (<0.1)	152Eu (89.8)	75.1 (0.2)	152Eu (89.8)	79.0 (0.1)	152Eu (89.8)
70.4 (<0.1)	104Rh (180.9)	75.1 (<0.1)	80Br (37.1)	79.0 (0.3)	134Cs (116.4)
70.5 (0.2)	170Tm (204.5)	75.2 (1.0)	198Au (214.8)	79.1	108Ag
70.6 (<0.1)	152Eu (89.8)	75.3 (13.5)	105Ru (143.2)	79.1 (0.2)	177Lu (150.4)
70.7 (<0.1)	80Br (37.1)	75.4 (0.2)	152Eu (89.8)	79.1 (<0.1)	80Br (37.1)
70.7 (0.5)	163Dy (351.1)	75.4 (0.7)	153Eu (97.4)	79.3 (0.3)	152Eu (89.8)
70.7 (0.4)	152Eu (89.8)	75.4 (<0.1)	168Er (6228.8)	79.3 (2.6)	167Er (207.8)
70.9	169Yb	75.5 (<0.1)	152Eu (89.8)	79.4 (<0.1)	66Cu (185.9)
70.9 (0.5)	104Rh (180.9)	75.7 (<0.1)	152Eu (89.8)	79.4 (0.5)	182Ta (270.4)
71.0 (0.7)	166Ho (136.7)	75.7 (7.4)	249Cm (1408.3)	79.4 (3.2)	153Sm (127.3)
71.0 (2.5)	152Eu (89.8)	75.8 (0.3)	166Ho (136.7)	79.4 (<0.1)	152Eu (89.8)
71.2 (<0.1)	152Eu (89.8)	75.8 (0.5)	176Lu (71.5)	79.5 (53.2)	158Gd (181.9)
71.5	122Sb	75.8 (<0.1)	160Tb (75.1)	79.5 (0.4)	154Eu (68.2)
71.5 (100.0)	176Lu (71.5)	75.8 (7.9)	170Tm (204.5)	79.8 (0.8)	238Np (5352.0)
71.5 (82.2)	197Pt (5846.3)	75.9 (4.2)	249Cm (1408.3)	79.8 (6.5)	168Er (6228.8)
71.6 (0.5)	177Lu (150.4)	75.9 (0.2)	80Br (37.1)	79.8 (0.6)	152Eu (89.8)
71.7 (0.2)	152Eu (89.8)	76.0 (0.3)	166Ho (136.7)	79.8 (12.9)	110Ag (198.7)
71.8 (<0.1)	80Br (37.1)	76.0 (0.2)	151Nd (4487.8)	79.9 (<0.1)	152Eu (89.8)
71.8 (3.3)	176Lu (71.5)	76.1	122Sb	79.9 (0.1)	165Dy (108.2)
72.0 (0.1)	152Eu (89.8)	76.1 (<0.1)	152Eu (89.8)	79.9 (4.8)	72Ga (145.1)
72.1 (5.0)	188Re (63.6)	76.4 (<0.1)	152Eu (89.8)	80.0 (1.4)	202Hg (439.5)
72.2 (<0.1)	145Nd (852.8)	76.4 (0.1)	154Eu (68.2)	80.0 (0.4)	184W (111.2)
72.2	175Yb	76.5 (1.2)	166Ho (136.7)	80.1 (<0.1)	75Ge (574.7)
72.4 (<0.1)	152Eu (89.8)	76.5 (38.7)	174Yb (176.6)	80.2 (<0.1)	152Eu (89.8)
72.5 (2.3)	152Eu (89.8)	76.5 (8.0)	173Yb (399.4)	80.3 (0.2)	152Eu (89.8)
72.7 (<0.1)	152Eu (89.8)	76.5 (0.4)	163Dy (351.1)	80.3 (<0.1)	80Br (37.1)
72.8 (5.9)	165Dy (108.2)	76.6 (<0.1)	233Th (3473.0)	80.5 (<0.1)	158Gd (181.9)
72.9 (4.2)	238Np (5352.0)	76.6 (<0.1)	152Eu (89.8)	80.5 (<0.1)	80Br (37.1)
72.9 (11.9)	110Ag (198.7)	76.6 (3.2)	249Cm (1408.3)	80.6 (1.0)	105Ru (143.2)
73.0 (<0.1)	152Eu (89.8)	76.8 (<0.1)	233Th (3473.0)	80.6 (<0.1)	177Lu (150.4)
73.1 (4.0)	176Lu (71.5)	76.8 (1.4)	116In (273.0)	80.7 (30.8)	162Dy (185.0)
73.2 (0.2)	114In (311.7)	76.9 (0.2)	200Hg (367.9)	80.7 (2.3)	104Rh (180.9)
73.4 (0.7)	152Eu (89.8)	76.9 (0.2)	134Cs (116.4)	80.7	128I
73.4 (<0.1)	177Lu (150.4)	77.0 (0.6)	153Sm (127.3)	80.8 (3.9)	154Eu (68.2)
73.4 (100.0)	164Dy (73.4)	77.0 (0.1)	152Eu (89.8)	80.8	124Sb
73.4 (4.4)	152Eu (89.8)	77.1 (<0.1)	165Dy (108.2)	80.9 (0.5)	170Tm (204.5)
73.4 (9.2)	163Dy (351.1)	77.1 (0.2)	202Hg (439.5)	81.0 (<0.1)	77Se (238.9)
73.6 (1.5)	134Cs (116.4)	77.1 (<0.1)	204Tl (139.9)	81.1 (<0.1)	80Br (37.1)
73.7 (0.3)	152Eu (89.8)	77.1 (<0.1)	152Eu (89.8)	81.1 (0.3)	134Cs (116.4)
73.8 (1.9)	167Er (207.8)	77.1	124Sb	81.1 (57.5)	101Mo (180.7)
73.8 (<0.1)	168Er (6228.8)	77.1 (19.1)	198Au (214.8)	81.2 (<0.1)	152Eu (89.8)
73.8 (3.1)	238Np (5352.0)	77.1 (1.5)	151Nd (4487.8)	81.3 (0.2)	176Lu (71.5)
73.8 (0.3)	152Eu (89.8)	77.2 (<0.1)	199Au (493.5)	81.5 (2.1)	177Lu (150.4)
73.9	124Sb	77.3 (11.0)	152Eu (89.8)	81.5	175Hf
74.1 (14.8)	134Cs (116.4)	77.4 (2.5)	187Y (5261.8)	81.6 (0.1)	152Eu (89.8)
74.1 (0.9)	154Eu (68.2)	77.5 (2.8)	165Dy (108.2)	81.7 (<0.1)	146Nd (7110.8)
74.1 (3.7)	182Ta (270.4)	77.5 (0.8)	104Rh (180.9)	81.8 (0.2)	153Eu (97.4)
74.3 (0.3)	166Ho (136.7)	77.6 (1.7)	235U (4155.1)	81.9 (<0.1)	152Eu (89.8)
74.3 (<0.1)	187Os (427.1)	77.6 (0.2)	163Dy (351.1)	81.9 (5.3)	194Ir (371.7)
74.3 (<0.1)	152Eu (89.8)	77.7 (<0.1)	152Eu (89.8)	82.0 (0.3)	176Lu (71.5)
74.4 (0.1)	80Br (37.1)	77.8 (<0.1)	152Eu (89.8)	82.2 (<0.1)	80Br (37.1)
74.5 (<0.1)	152Eu (89.8)	77.9 (0.2)	170Tm (204.5)	82.2 (4.1)	238Np (5352.0)
74.5 (0.2)	153Eu (97.4)	77.9 (0.6)	152Eu (89.8)	82.2 (0.2)	152Eu (89.8)
74.6 (<0.1)	80Br (37.1)	77.9 (<0.1)	80Br (37.1)	82.3 (0.5)	116In (273.0)
74.6 (<0.1)	162Dy (185.0)	77.9 (0.5)	154Eu (68.2)	82.5 (3.5)	166Ho (136.7)
74.6 (11.5)	186Re (59.0)	78.0 (82.4)	147Nd (314.7)	82.5 (38.0)	105Ru (143.2)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($X\gamma$)	Nucleus (Strongest γ)	E_{γ} keV ($X\gamma$)	Nucleus (Strongest γ)	E_{γ} keV ($X\gamma$)	Nucleus (Strongest γ)
82.6 (<0.1)	152Eu (89.8)	86.4 (<0.1)	152Eu (89.8)	89.0 (100.0)	156Gd (89.0)
82.7 (<0.1)	177Lu (150.4)	86.4 (<0.1)	163Dy (351.1)	89.1 (<0.1)	152Eu (89.8)
82.7 (0.2)	152Eu (89.8)	86.4 (<0.1)	152Eu (89.8)	89.1 (0.3)	140La (5097.9)
82.8 (3.5)	173Yb (399.4)	86.5 (0.6)	154Eu (68.2)	89.1 (28.5)	66Cu (185.9)
82.9 (<0.1)	152Eu (89.8)	86.6 (6.0)	153Eu (97.4)	89.2 (<0.1)	80Br (37.1)
82.9 (0.1)	176Lu (71.5)	86.6 (<0.1)	238Np (5352.0)	89.2 (2.9)	154Eu (68.2)
82.9 (<0.1)	152Eu (89.8)	86.7 (36.1)	147Nd (314.7)	89.2 (0.2)	152Eu (89.8)
83.0 (0.6)	153Sm (127.3)	86.7	122Sb	89.3 (<0.1)	152Eu (89.8)
83.0 (0.2)	166Ho (136.7)	86.8 (<0.1)	152Eu (89.8)	89.4	175Yb
83.1 (1.8)	198Au (214.8)	86.8 (<0.1)	63Ni (6838.2)	89.4 (0.9)	187W (5261.8)
83.1 (0.3)	154Eu (68.2)	86.8 (<0.1)	152Eu (89.8)	89.4 (<0.1)	152Eu (89.8)
83.2 (<0.1)	152Eu (89.8)	86.8 (<0.1)	76As (165.0)	89.5 (0.6)	152Eu (89.8)
83.3 (0.9)	153Sm (127.3)	86.8 (1.8)	186Re (59.0)	89.5 (<0.1)	152Eu (89.8)
83.3 (2.0)	151Nd (4487.8)	86.8 (0.6)	154Eu (68.2)	89.6 (0.4)	166Ho (136.7)
83.4 (22.9)	153Eu (97.4)	86.9 (<0.1)	163Dy (351.1)	89.6 (1.1)	86Rb (557.0)
83.4 (3.2)	165Dy (108.2)	86.9 (0.4)	151Nd (4487.8)	89.6 (<0.1)	104Rh (180.9)
83.5 (0.8)	167Er (207.8)	86.9 (<0.1)	162Dy (185.0)	89.6 (1.8)	152Eu (89.8)
83.5 (<0.1)	152Eu (89.8)	86.9 (<0.1)	152Eu (89.8)	89.8 (1.8)	153Eu (97.4)
83.5 (<0.1)	177Yb (151.6)	87.0 (<0.1)	178Hf (213.4)	89.8	163Yb
83.6 (0.3)	200Hg (367.9)	87.0 (<0.1)	152Eu (89.8)	89.8 (100.0)	152Eu (89.8)
83.7 (11.3)	153Eu (97.4)	87.2 (0.3)	152Eu (89.8)	89.9	124Sb
83.7 (<0.1)	185Os (6588.0)	87.2 (0.1)	166Ho (136.7)	89.9 (0.5)	170Tm (204.5)
83.7 (<0.1)	152Eu (89.8)	87.3 (0.2)	114In (311.7)	89.9 (0.4)	188Re (63.6)
83.7 (3.3)	104Rh (180.9)	87.3 (7.1)	134Cs (116.4)	89.9 (0.2)	235U (4155.1)
83.9 (<0.1)	80Br (37.1)	87.3 (15.4)	186Re (59.0)	89.9 (0.2)	162Dy (185.0)
83.9 (60.6)	56Mn (26.6)	87.4 (<0.1)	152Eu (89.8)	90.0	175Yb
83.9 (<0.1)	160Tb (75.1)	87.4	169Yb	90.1 (0.9)	182Ta (270.4)
83.9 (2.1)	249Cm (1408.3)	87.4 (0.9)	105Ru (143.2)	90.1 (0.2)	153Eu (97.4)
84.0 (<0.1)	152Eu (89.8)	87.4 (<0.1)	152Eu (89.8)	90.1 (0.2)	116In (273.0)
84.1 (<0.1)	152Eu (89.8)	87.5 (1.4)	188Re (63.6)	90.2 (<0.1)	165Dy (108.2)
84.3 (25.0)	194Ir (371.7)	87.5 (<0.1)	170Tm (204.5)	90.2 (0.3)	170Tm (204.5)
84.3 (<0.1)	152Eu (89.8)	87.5 (<0.1)	152Eu (89.8)	90.4 (<0.1)	187Os (427.1)
84.3 (1.9)	116In (273.0)	87.5 (9.9)	170Tm (204.5)	90.4 (<0.1)	152Eu (89.8)
84.4 (<0.1)	152Eu (89.8)	87.6 (4.5)	166Ho (136.7)	90.4 (<0.1)	80Br (37.1)
84.4 (<0.1)	165Dy (108.2)	87.6	124Sb	90.5 (0.1)	153Eu (97.4)
84.4 (<0.1)	152Eu (89.8)	87.7 (<0.1)	160Tb (75.1)	90.5 (4.0)	154Eu (68.2)
84.5 (0.5)	166Ho (136.7)	87.7 (<0.1)	165Dy (108.2)	90.6 (0.8)	153Sm (127.3)
84.6 (<0.1)	80Br (37.1)	87.7 (<0.1)	152Eu (89.8)	90.6 (<0.1)	185Os (6588.0)
84.7 (<0.1)	185Os (6588.0)	87.8 (<0.1)	80Br (37.1)	90.6 (0.3)	80Br (37.1)
84.7 (3.3)	249Cm (1408.3)	87.8 (11.8)	77Se (239.9)	90.7 (<0.1)	177Lu (150.4)
84.7 (<0.1)	177Lu (150.4)	87.9 (<0.1)	152Eu (89.8)	90.7	172Yb
84.9 (<0.1)	187Os (427.1)	87.9 (<0.1)	194Ir (371.7)	90.8 (1.8)	153Sm (127.3)
84.9 (<0.1)	169Er (429.9)	87.9 (<0.1)	152Eu (89.8)	90.8	169Yb
84.9 (2.2)	193Os (5276.0)	88.0	175Yb	90.8 (1.1)	152Eu (89.8)
84.9 (<0.1)	152Eu (89.8)	88.0 (0.1)	152Eu (89.8)	90.9 (2.5)	176Lu (71.5)
85.0 (0.1)	80Br (37.1)	88.1 (0.3)	80Br (37.1)	90.9 (37.4)	153Sm (127.3)
85.0 (<0.1)	152Eu (89.8)	88.1 (<0.1)	152Eu (89.8)	90.9 (0.2)	152Eu (89.8)
85.0 (14.4)	142Pr (176.9)	88.2 (0.2)	153Sm (127.3)	91.0 (5.2)	198Au (214.8)
85.1 (<0.1)	152Eu (89.8)	88.2 (0.4)	104Rh (180.9)	91.0 (<0.1)	177Lu (150.4)
85.1 (0.8)	154Eu (68.2)	88.2 (<0.1)	80Br (37.1)	91.0 (<0.1)	152Eu (89.8)
85.3 (0.4)	170Tm (204.5)	88.3	122Sb	91.1 (<0.1)	151Nd (4487.8)
85.3 (<0.1)	152Eu (89.8)	88.3 (<0.1)	152Eu (89.8)	91.1 (<0.1)	152Eu (89.8)
85.3 (0.5)	188Re (63.6)	88.3 (0.2)	153Eu (97.4)	91.2	210Bi
85.3 (<0.1)	152Eu (89.8)	88.3 (<0.1)	104Rh (180.9)	91.3 (0.2)	152Eu (89.8)
85.4 (10.0)	104Rh (180.9)	88.4 (32.0)	176Lu (71.5)	91.3 (0.3)	184W (111.2)
85.4 (<0.1)	152Eu (89.8)	88.4	124Sb	91.3 (<0.1)	152Eu (89.8)
85.4 (<0.1)	233Th (3473.0)	88.4 (<0.1)	152Eu (89.8)	91.5 (12.1)	153Sm (127.3)
85.5 (<0.1)	152Eu (89.8)	88.6 (0.1)	166Ho (136.7)	91.5 (<0.1)	152Eu (89.8)
85.6 (77.0)	116In (273.0)	88.7 (<0.1)	152Eu (89.8)	91.7 (<0.1)	177Lu (150.4)
85.6 (<0.1)	152Eu (89.8)	88.8 (<0.1)	151Sm (5288.0)	91.8 (<0.1)	152Eu (89.8)
85.7 (<0.1)	152Eu (89.8)	88.8 (0.7)	152Eu (89.8)	91.8 (<0.1)	150Sm (334.0)
85.9 (<0.1)	152Eu (89.8)	88.8 (<0.1)	80Br (37.1)	91.8 (<0.1)	177Yb (151.6)
85.9 (6.3)	86Rb (557.0)	88.8 (0.8)	178Hf (213.4)	91.8 (<0.1)	152Eu (89.8)
85.9 (1.0)	104Rh (180.9)	88.9 (5.4)	72Ga (145.1)	91.9 (1.3)	193Os (5276.0)
85.9 (<0.1)	116In (273.0)	88.9 (0.2)	177Lu (150.4)	92.0 (<0.1)	152Eu (89.8)
86.1 (10.3)	142Pr (176.9)	88.9 (<0.1)	152Eu (89.8)	92.0	169Yb
86.1 (<0.1)	152Eu (89.8)	88.9 (<0.1)	151Nd (4487.8)	92.0 (1.2)	153Sm (127.3)
86.3 (0.3)	151Nd (4487.8)	88.9 (0.4)	170Tm (204.5)	92.1 (4.5)	188Re (59.0)
86.3 (<0.1)	152Eu (89.8)	89.0 (0.5)	104Rh (180.9)	92.2 (0.2)	154Eu (68.2)
86 (0.4)	166Ho (136.7)	89.0 (<0.1)	152Eu (89.8)	92.2 (<0.1)	152Eu (89.8)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\chi_{1\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\chi_{1\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\chi_{1\gamma}$)	Nucleus (Strongest γ)
92.2	179Hf	95.9	202Hg	99.7	152Eu
92.3	152Eu	96.0	166Ho	99.7	186Re
92.4	188Re	96.0	152Eu	99.7	71Ge
92.4	182Ta	96.0	184W	99.7	163Dy
92.5	188Re	96.0	116In	99.8	152Eu
92.6	168Er	96.2	152Eu	99.8	200Hg
92.7	170Tm	96.3	104Rh	99.8	177Lu
92.7	152Eu	96.3	86Rb	99.8	158Gd
92.7	160Tb	96.5	152Eu	99.9	152Eu
92.7	152Eu	96.6	152Eu	99.9	182Ta
92.7	80Br	96.7	76As	99.9	104Rh
92.8	152Eu	96.9	153Eu	100.0	152Eu
92.8	114In	96.9	176Lu	100.0	153Eu
93.2	179Hf	97.1	104Rh	100.0	152Eu
93.2	177Lu	97.2	198Au	100.0	151Sm
93.2	134Cs	97.2	179Hf	100.1	152Eu
93.2	176Lu	97.2	146Nd	100.1	154Eu
93.2	194Ir	97.3	114In	100.1	147Nd
93.4	80Br	97.3	80Br	100.2	194Ir
93.4	76As	97.4	158Gd	100.4	249Cm
93.4	110Ag	97.4	153Eu	100.4	152Eu
93.4	152Eu	97.5	152Eu	100.5	185Os
93.4	176Lu	97.5	185Os	100.5	152Eu
93.5	152Eu	97.5	177Lu	100.6	186Re
93.5	154Eu	97.5	200Hg	100.6	152Eu
93.6	188Re	97.6	134Cs	100.8	175Yb
93.6	152Eu	97.7	152Eu	100.8	158Gd
93.6	114In	97.8	200Hg	100.8	104Rh
93.7	152Eu	97.8	182Ta	100.8	165Dy
93.8	153Sm	97.8	249Cm	100.9	154Eu
93.9	163Dy	97.9	160Tb	100.9	152Eu
94.0	124Sb	97.9	152Eu	100.9	186Re
94.0	152Eu	98.0	156Gd	100.9	178Hf
94.1	177Lu	98.1	151Sm	100.9	152Eu
94.2	182Ta	98.1	162Dy	101.0	202Hg
94.2	188Re	98.1	164Dy	101.0	152Eu
94.3	154Eu	98.2	166Ho	101.0	116In
94.3	104Rh	98.3	152Eu	101.0	158Gd
94.3	152Eu	98.5	114In	101.1	152Eu
94.4	177Lu	98.6	197Pt	101.2	116In
94.5	185Os	98.6	170Tm	101.3	152Eu
94.5	170Tm	98.6	187W	101.3	179Hf
94.5	166Ho	98.6	167Er	101.3	152Eu
94.6	152Eu	98.7	177Lu	101.4	198Au
94.6	166Ho	98.7	151Sm	101.5	152Eu
94.7	152Eu	98.7	177Lu	101.5	108Ag
94.8	134Cs	98.7	152Eu	101.5	152Eu
94.8	152Eu	98.8	162Dy	101.6	122Sb
94.9	152Eu	98.8	152Eu	101.6	152Eu
95.1	152Eu	98.8	235U	101.7	80Br
95.1	182Ta	98.8	167Er	101.8	124Sb
95.1	152Eu	98.9	165Dy	101.8	187W
95.2	163Dy	98.9	166Ho	101.8	152Eu
95.2	162Dy	99.0	168Er	101.9	110Ag
95.2	104Rh	99.1	176Lu	101.9	177Lu
95.2	128I	99.2	80Br	101.9	198Au
95.2	166Ho	99.3	152Eu	101.9	151Sm
95.2	152Eu	99.3	198Au	101.9	152Eu
95.2	80Br	99.3	168Er	101.9	114In
95.2	152Eu	99.3	152Eu	102.0	152Eu
95.3	175Yb	99.3	154Eu	102.1	152Eu
95.4	116In	99.4	186Re	102.2	154Eu
95.4	174Yb	99.4	94Nb	102.2	152Eu
95.4	152Eu	99.4	152Eu	102.3	128I
95.5	194Ir	99.4	116In	102.3	152Eu
95.7	152Eu	99.5	152Eu	102.5	151Nd
95.8	166Ho	99.5	77Se	102.5	152Eu
95.8	104Rh	99.5	152Eu	102.5	188Re
95.9	80Br	99.6	80Br	102.6	152Eu
95.9	114Cd	99.7	170Tm	102.6	151Sm

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\% \gamma$)	Nucleus (Strongest γ)	E_{γ} keV ($\% \gamma$)	Nucleus (Strongest γ)	E_{γ} keV ($\% \gamma$)	Nucleus (Strongest γ)
102.6 (0.5)	186Re (59.0)	105.2 (<0.1)	177Lu (150.4)	108.2 (<0.1)	152Eu (89.8)
102.6 (0.6)	152Eu (89.8)	105.3 (0.2)	80Br (37.1)	108.3 (<0.1)	116In (273.0)
102.6 (3.2)	238Np (5352.0)	105.3 (0.2)	152Eu (89.8)	108.3 (1.5)	186Re (59.0)
102.7 (19.2)	249Cm (1408.3)	105.4 (2.2)	104Rh (180.9)	108.3 (<0.1)	152Eu (89.8)
102.7 (0.2)	165Dy (108.2)	105.4 (<0.1)	152Eu (89.8)	108.4 (0.2)	114In (311.7)
102.7 (0.3)	188Re (63.6)	105.4 (0.3)	153Sm (127.3)	108.4 (<0.1)	169Er (429.9)
102.7 (9.3)	193Os (5276.0)	105.5 (2.4)	114In (311.7)	108.4 (<0.1)	152Eu (89.8)
102.8 (14.7)	249Cm (1408.3)	105.5 (2.2)	154Eu (68.2)	108.6 (0.2)	186Re (59.0)
102.8 (<0.1)	152Eu (89.8)	105.5 (<0.1)	152Eu (89.8)	108.6 (<0.1)	188Re (63.6)
102.9	31Se	105.5 (1.9)	166Ho (136.7)	108.7 (3.8)	153Sm (127.3)
102.9 (<0.1)	152Eu (89.8)	105.7 (<0.1)	152Eu (89.8)	108.7 (<0.1)	152Eu (89.8)
102.9 (2.5)	154Eu (68.2)	105.7 (0.7)	176Lu (71.5)	108.8 (5.9)	198Au (214.8)
103.0 (<0.1)	153Eu (97.4)	105.8 (3.2)	151Nd (4487.8)	108.9 (<0.1)	152Eu (89.8)
103.0 (<0.1)	177Yb (151.6)	105.8	179Hf	108.9 (0.8)	153Sm (127.3)
103.1 (<0.1)	185Os (6588.0)	105.8	122Sb	108.9 (<0.1)	160Tb (75.1)
103.1 (0.2)	166Ho (136.7)	105.8 (14.6)	110Ag (198.7)	108.9 (4.2)	154Eu (68.2)
103.1 (0.1)	167Er (207.8)	105.8 (<0.1)	152Eu (89.8)	109.0 (0.1)	104Rh (180.9)
103.2 (63.0)	153Eu (97.4)	105.9 (22.7)	188Re (63.6)	109.1 (<0.1)	80Br (37.1)
103.2 (10.2)	72Ga (145.1)	105.9 (0.9)	182Ta (270.4)	109.2 (<0.1)	152Eu (89.8)
103.2 (<0.1)	152Eu (89.8)	105.9 (0.8)	238Np (5352.0)	109.3 (4.8)	194Ir (371.7)
103.3 (9.4)	186Re (59.0)	106.0 (<0.1)	152Eu (89.8)	109.3 (1.4)	152Eu (89.8)
103.4 (<0.1)	152Eu (89.8)	106.0 (0.9)	104Rh (180.9)	109.5 (0.2)	104Rh (180.9)
103.4 (<0.1)	177Lu (150.4)	106.0 (<0.1)	152Eu (89.8)	109.5 (<0.1)	152Eu (89.8)
103.4 (<0.1)	152Eu (89.8)	106.1 (<0.1)	80Br (37.1)	109.5 (0.1)	176Lu (71.5)
103.4 (<0.1)	80Br (37.1)	106.2 (<0.1)	152Eu (89.8)	109.5 (0.4)	186Re (59.0)
103.5 (6.8)	198Au (214.8)	106.2 (<0.1)	177Lu (150.4)	109.6 (<0.1)	177Yb (151.6)
103.5 (1.6)	152Eu (89.8)	106.2 (<0.1)	152Eu (89.8)	109.6 (<0.1)	152Eu (89.8)
103.6 (0.6)	186Re (59.0)	106.2	179Hf	109.6 (0.5)	114In (311.7)
103.6 (<0.1)	152Eu (89.8)	106.3	128I	109.7 (9.9)	238Np (5352.0)
103.7	124Sb	106.3 (0.8)	152Eu (89.8)	109.7 (8.5)	153Eu (97.4)
103.7 (<0.1)	152Eu (89.8)	106.4 (3.0)	72Ga (145.1)	109.8 (0.3)	170Tm (204.5)
103.7 (0.2)	176Lu (71.5)	106.4 (<0.1)	152Eu (89.8)	109.8 (1.1)	153Eu (97.4)
103.8 (<0.1)	152Eu (89.8)	106.5 (<0.1)	152Eu (89.8)	109.8 (0.4)	193Os (5276.0)
103.9 (0.3)	104Rh (180.9)	106.5 (<0.1)	177Lu (150.4)	109.8 (0.2)	152Eu (89.8)
104.0 (<0.1)	152Eu (89.8)	106.5 (<0.1)	152Eu (89.8)	109.8 (<0.1)	177Lu (150.4)
104.0 (2.1)	182Ta (270.4)	106.6 (4.9)	186Re (59.0)	109.9 (<0.1)	162Dy (185.0)
104.1 (0.9)	198Au (214.8)	106.6 (<0.1)	152Eu (89.8)	109.9 (<0.1)	152Eu (89.8)
104.1 (0.2)	176Lu (71.5)	106.7 (0.2)	104Rh (180.9)	109.9 (3.2)	72Ga (145.1)
104.1 (<0.1)	163Dy (351.1)	106.7 (<0.1)	177Lu (150.4)	109.9 (<0.1)	152Eu (89.8)
104.2 (<0.1)	152Eu (89.8)	106.8 (<0.1)	152Eu (89.8)	110.0 (<0.1)	80Br (37.1)
104.2 (<0.1)	236U (642.2)	106.8 (<0.1)	80Br (37.1)	110.0 (0.3)	104Rh (180.9)
104.2 (<0.1)	162Dy (185.0)	106.9 (1.8)	198Au (214.8)	110.0 (<0.1)	152Eu (89.8)
104.2 (<0.1)	163Dy (351.1)	107.1 (0.3)	152Eu (89.8)	110.0 (<0.1)	177Lu (150.4)
104.3 (<0.1)	152Eu (89.8)	107.1 (<0.1)	233Th (3473.0)	110.0 (<0.1)	152Eu (89.8)
104.3	169Yb	107.2 (<0.1)	152Eu (89.8)	110.2 (0.3)	80Br (37.1)
104.3 (<0.1)	152Eu (89.8)	107.2 (4.8)	238Np (5352.0)	110.2 (<0.1)	152Eu (89.8)
104.3 (0.1)	153Eu (97.4)	107.2 (<0.1)	152Eu (89.8)	110.2 (1.6)	186Re (59.0)
104.4 (<0.1)	152Eu (89.8)	107.2 (<0.1)	80Br (37.1)	110.3 (<0.1)	152Eu (89.8)
104.4 (<0.1)	185Os (6588.0)	107.3 (76.5)	177Yb (151.6)	110.3 (<0.1)	177Lu (150.4)
104.4 (<0.1)	152Eu (89.8)	107.3 (<0.1)	177Lu (150.4)	110.3 (<0.1)	165Dy (108.2)
104.4 (0.2)	80Br (37.1)	107.3 (<0.1)	152Eu (89.8)	110.4 (0.1)	152Eu (89.8)
104.5 (<0.1)	152Eu (89.8)	107.4 (3.3)	188Re (63.6)	110.4 (<0.1)	80Br (37.1)
104.5 (85.3)	177Yb (151.6)	107.5 (0.5)	152Eu (89.8)	110.4 (2.6)	185W (4573.6)
104.5 (0.2)	202Hg (439.5)	107.5 (<0.1)	80Br (37.1)	110.5 (3.5)	156Gd (89.0)
104.5	175Yb	107.7 (<0.1)	152Eu (89.8)	110.5 (0.2)	56Mn (26.6)
104.6 (3.6)	142Pr (176.9)	107.8 (1.2)	185W (4573.6)	110.5 (<0.1)	152Eu (89.8)
104.6 (0.3)	104Rh (180.9)	107.9 (2.7)	182Ta (270.4)	110.6 (0.8)	152Eu (89.8)
104.6 (0.2)	153Sm (127.3)	107.9 (<0.1)	152Eu (89.8)	110.6	124Sb
104.6 (46.7)	56Mn (26.6)	107.9 (<0.1)	153Eu (97.4)	110.7 (<0.1)	204Tl (139.9)
104.7 (0.2)	152Eu (89.8)	107.9 (84.7)	105Ru (143.2)	110.8 (0.8)	116In (273.0)
104.8 (0.2)	55Cr (6246.4)	108.0 (0.9)	170Tm (204.5)	110.8 (0.1)	104Rh (180.9)
104.8 (<0.1)	152Eu (89.8)	108.0 (<0.1)	204Tl (139.9)	110.8	210Bi
104.9 (<0.1)	151Sm (5288.0)	108.0	169Yb	110.8 (<0.1)	152Eu (89.8)
104.9 (0.7)	154Eu (68.2)	108.1 (<0.1)	152Eu (89.8)	110.9	169Yb
104.9 (0.2)	153Sm (127.3)	108.2 (100.0)	165Dy (108.2)	111.0 (<0.1)	177Lu (150.4)
105.0 (1.8)	176Lu (71.5)	108.2 (0.5)	186Re (59.0)	111.0 (<0.1)	152Eu (89.8)
105.0 (<0.1)	152Eu (89.8)	108.2 (0.2)	154Eu (68.2)	111.0 (2.9)	170Tm (204.5)
105.1 (<0.1)	80Br (37.1)	108.2 (0.2)	188Re (63.6)	111.0 (<0.1)	80Br (37.1)
105.2 (<0.1)	152Eu (89.8)	108.2 (3.1)	166Ho (136.7)	111.1 (<0.1)	152Eu (89.8)
105.2 (6.0)	170Tm (204.5)	108.2 (<0.1)	110Ag (198.7)	111.1 (1.2)	249Cm (1408.3)

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV (% γ)	Nucleus (Strongest γ)	E γ keV (% γ)	Nucleus (Strongest γ)	E γ keV (% γ)	Nucleus (Strongest γ)
111.1 (0.7)	152Eu (89.8)	114.0 (<0.1)	152Eu (89.8)	116.6 (8.1)	134Cs (116.4)
111.2 (100.0)	184W (111.2)	114.0 (<0.1)	177Lu (150.4)	116.7 (<0.1)	158Gd (181.9)
111.3 (<0.1)	152Eu (89.8)	114.0 (<0.1)	110Ag (198.7)	116.7 (0.2)	176Lu (71.5)
111.3 (0.1)	202Hg (439.5)	114.1 (0.5)	176Lu (71.5)	116.7 (<0.1)	152Eu (89.8)
111.3 (2.3)	166Ho (136.7)	114.1 (<0.1)	110Ag (198.7)	116.7 (0.1)	167Er (207.8)
111.3 (10.5)	186Re (59.0)	114.1 (6.8)	86Rb (557.0)	116.8 (<0.1)	76As (165.0)
111.3 (<0.1)	152Eu (89.8)	114.2 (<0.1)	152Eu (89.8)	116.8 (<0.1)	158Gd (181.9)
111.4 (<0.1)	152Eu (89.8)	114.2 (<0.1)	163Dy (351.1)	116.8 (1.6)	165Dy (108.2)
111.6 (5.5)	188Re (63.6)	114.2 (0.6)	162Dy (185.0)	116.8 (1.9)	249Cm (1408.3)
111.6 (0.5)	153Eu (97.4)	114.3 (0.2)	152Eu (89.8)	116.8 (0.5)	72Ga (145.1)
111.7 (12.3)	186Re (59.0)	114.3 (1.7)	134Cs (116.4)	116.8 (57.5)	166Ho (136.7)
111.7 (5.0)	188Re (63.6)	114.4 (24.0)	182Ta (270.4)	116.9 (<0.1)	152Eu (89.8)
111.7 (6.9)	177Lu (150.4)	114.4 (<0.1)	152Eu (89.8)	116.9 (<0.1)	104Rh (180.9)
111.8 (3.0)	75Ge (574.7)	114.4 (<0.1)	162Dy (185.0)	116.9 (0.4)	154Eu (68.2)
111.8 (6.7)	186Re (59.0)	114.5 (<0.1)	152Eu (89.8)	117.0 (0.4)	152Eu (89.8)
111.9 (0.1)	176Lu (71.5)	114.5 (<0.1)	158Gd (181.9)	117.0 (0.7)	182Ta (270.4)
111.9 (<0.1)	152Eu (89.8)	114.5 (0.1)	176Lu (71.5)	117.1 (0.2)	188Re (63.6)
111.9 (1.0)	156Gd (89.0)	114.5 (35.9)	170Tm (204.5)	117.2 (1.5)	134Cs (116.4)
112.0	175Yb	114.6 (1.3)	188Re (63.6)	117.2 (<0.1)	152Eu (89.8)
112.0 (<0.1)	152Eu (89.8)	114.7 (<0.1)	152Eu (89.8)	117.2 (<0.1)	177Yb (151.6)
112.0 (0.2)	177Lu (150.4)	114.8 (2.5)	147Nd (314.7)	117.2	175Yb
112.0	1281	114.8 (<0.1)	152Eu (89.8)	117.2 (<0.1)	80Br (37.1)
112.1 (<0.1)	152Eu (89.8)	114.9 (4.0)	249Cm (1408.3)	117.2 (<0.1)	152Eu (89.8)
112.1 (0.7)	116In (273.0)	114.9	122Sb	117.3 (0.7)	166Ho (136.7)
112.1 (0.2)	186Re (59.0)	114.9 (<0.1)	152Eu (89.8)	117.3 (<0.1)	152Eu (89.8)
112.1 (<0.1)	168Er (6228.8)	115.0	175Yb	117.3 (<0.1)	153Sm (127.3)
112.1 (<0.1)	188Re (63.6)	115.0 (1.5)	116In (273.0)	117.3 (<0.1)	158Gd (181.9)
112.2 (<0.1)	152Eu (89.8)	115.0 (<0.1)	80Br (37.1)	117.3 (<0.1)	76As (165.0)
112.2 (45.0)	194Ir (371.7)	115.0 (0.4)	170Tm (204.5)	117.4 (0.5)	152Eu (89.8)
112.3 (<0.1)	152Eu (89.8)	115.0 (<0.1)	152Eu (89.8)	117.5 (0.1)	162Dy (185.0)
112.4 (<0.1)	187Os (427.1)	115.1 (8.0)	249Cm (1408.3)	117.5 (9.8)	194Ir (371.7)
112.4	175Yb	115.1	1281	117.6 (<0.1)	150Sm (334.0)
112.4 (<0.1)	160Tb (75.1)	115.1 (2.5)	176Lu (71.5)	117.6 (<0.1)	152Eu (89.8)
112.4 (30.6)	72Ga (145.1)	115.2 (3.4)	188Re (63.6)	117.6 (54.1)	110Ag (198.7)
112.4 (<0.1)	152Eu (89.8)	115.2 (0.1)	152Eu (89.8)	117.6 (<0.1)	152Eu (89.8)
112.4 (0.2)	80Br (37.1)	115.3 (9.5)	194Ir (371.7)	117.7 (1.5)	156Gd (89.0)
112.5 (3.4)	116In (273.0)	115.3 (2.3)	249Cm (1408.3)	117.7 (2.5)	249Cm (1408.3)
112.5 (0.4)	152Eu (89.8)	115.3 (0.3)	177Lu (150.4)	117.7 (0.3)	188Re (63.6)
112.5 (0.1)	176Lu (71.5)	115.3 (0.3)	188Re (63.6)	117.8 (<0.1)	152Eu (89.8)
112.5 (0.4)	170Tm (204.5)	115.3 (0.3)	134Cs (116.4)	118.0 (<0.1)	152Eu (89.8)
112.5 (<0.1)	56Mn (26.6)	115.4 (0.3)	104Rh (180.9)	118.1 (1.2)	153Eu (97.4)
112.5 (0.3)	105Ru (143.2)	115.4 (<0.1)	152Eu (89.8)	118.1 (<0.1)	152Eu (89.8)
112.6 (0.2)	124Te (602.4)	115.4 (0.2)	170Tm (204.5)	118.2 (1.9)	186Re (59.0)
112.6 (1.2)	154Eu (68.2)	115.5 (<0.1)	152Eu (89.8)	118.2 (2.1)	104Rh (180.9)
112.6 (0.3)	153Sm (127.3)	115.5 (4.2)	142Pr (176.9)	118.2 (0.8)	163Dy (351.1)
112.7	172Yb	115.6 (<0.1)	80Br (37.1)	118.3 (0.6)	174Yb (176.6)
112.7 (<0.1)	162Dy (185.0)	115.6 (<0.1)	187Os (427.1)	118.3 (0.2)	176Lu (71.5)
112.9	177Hf	115.7 (0.8)	177Lu (150.4)	118.3 (<0.1)	152Eu (89.8)
112.9 (25.0)	176Lu (71.5)	115.7 (<0.1)	104Rh (180.9)	118.3	122Sb
113.0 (<0.1)	152Eu (89.8)	115.7 (<0.1)	110Ag (198.7)	118.3 (0.3)	152Eu (89.8)
113.1 (<0.1)	202Hg (439.5)	115.7	175Hf	118.4 (7.5)	134Cs (116.4)
113.2 (<0.1)	152Eu (89.8)	115.7 (0.1)	200Hg (367.9)	118.4 (0.1)	152Eu (89.8)
113.2 (0.2)	153Sm (127.3)	115.8 (0.1)	152Eu (89.8)	118.4 (0.2)	158Er (6228.8)
113.2 (<0.1)	187Os (427.1)	115.8 (2.4)	238Np (5352.0)	118.4 (<0.1)	152Eu (89.8)
113.2 (<0.1)	200Hg (367.9)	115.9 (<0.1)	152Eu (89.8)	118.5 (<0.1)	158Gd (181.9)
113.3 (0.1)	176Lu (71.5)	115.9 (<0.1)	104Rh (180.9)	118.5 (1.0)	154Eu (68.2)
113.3 (<0.1)	152Eu (89.8)	115.9 (<0.1)	177Lu (150.4)	118.5 (<0.1)	152Eu (89.8)
113.3 (6.7)	105Ru (143.2)	116.1 (<0.1)	152Eu (89.8)	118.6 (4.4)	101Mo (180.7)
113.3 (0.3)	56Mn (26.6)	116.1 (11.7)	173Yb (399.4)	118.7 (<0.1)	76As (165.0)
113.4	94Nb	116.1 (0.5)	154Eu (68.2)	118.7	179Hf
113.4 (<0.1)	80Br (37.1)	116.1 (<0.1)	152Eu (89.8)	118.7 (0.9)	176Lu (71.5)
113.4 (1.0)	198Au (214.8)	116.2 (0.8)	176Lu (71.5)	118.7 (<0.1)	110Ag (198.7)
113.5 (<0.1)	152Eu (89.8)	116.3 (2.7)	235U (4155.1)	118.8 (1.3)	56Mn (26.6)
113.6 (<0.1)	152Eu (89.8)	116.3 (1.4)	249Cm (1408.3)	118.8 (<0.1)	152Eu (89.8)
113.6 (0.5)	166Ho (136.7)	116.4 (100.0)	134Cs (116.4)	118.8 (0.8)	140La (5097.9)
113.6	108Ag	116.4 (0.1)	104Rh (180.9)	118.8 (1.8)	153Sm (127.3)
113.7 (<0.1)	152Eu (89.8)	116.5	210Bi	118.9 (<0.1)	152Eu (89.8)
113.8 (30.3)	134Cs (116.4)	116.5 (<0.1)	152Eu (89.8)	118.9 (5.3)	182Ta (270.4)
113.8 (<0.1)	152Eu (89.8)	116.5 (<0.1)	188Re (63.6)	119.0 (<0.1)	152Eu (89.8)
113.9 (<0.1)	177Lu (150.4)	116.6 (<0.1)	177Lu (150.4)	119.0 (0.2)	104Rh (180.9)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_γ keV (χ ly)	Nucleus (Strongest γ)	E_γ keV (χ ly)	Nucleus (Strongest γ)	E_γ keV (χ ly)	Nucleus (Strongest γ)
119.1 (<0.1)	177Lu (150.4)	122.1 (<0.1)	152Eu (89.8)	124.8 (0.7)	163Dy (351.1)
119.2 (<0.1)	152Eu (89.8)	122.2 (<0.1)	158Gd (181.9)	124.8 (<0.1)	158Gd (181.9)
119.3 (0.4)	188Re (63.6)	122.3 (0.2)	152Eu (89.8)	124.9 (1.2)	152Eu (89.8)
119.3 (<0.1)	152Eu (89.8)	122.4	179Hf	124.9 (0.3)	170Tm (204.5)
119.3 (<0.1)	80Br (37.1)	122.5 (14.0)	57Fe (7631.6)	124.9 (<0.1)	185Os (6588.0)
119.3 (0.2)	170Tm (204.5)	122.5 (0.5)	103Ru (174.0)	125.0 (0.1)	177Lu (150.4)
119.3 (<0.1)	152Eu (89.8)	122.5 (11.5)	186Re (59.0)	125.0 (<0.1)	235U (4155.1)
119.4 (0.2)	154Eu (68.2)	122.6 (0.3)	166Ho (136.7)	125.0 (<0.1)	152Eu (89.8)
119.4 (0.1)	235U (4155.1)	122.6 (3.8)	186Re (59.0)	125.0 (0.2)	114In (311.7)
119.4 (<0.1)	165Dy (108.2)	122.7 (<0.1)	80Br (37.1)	125.1 (<0.1)	152Eu (89.8)
119.4 (<0.1)	162Dy (185.0)	122.7 (<0.1)	152Eu (89.8)	125.1 (2.7)	249Cm (1408.3)
119.5 (<0.1)	152Eu (89.8)	122.7 (4.7)	182Ta (270.4)	125.1 (1.7)	182Ta (270.4)
119.5 (<0.1)	185Os (6588.0)	122.8 (<0.1)	168Er (6228.8)	125.1 (100.0)	52V (125.1)
119.5 (<0.1)	152Eu (89.8)	122.8 (<0.1)	162Dy (185.0)	125.1 (<0.1)	80Br (37.1)
119.5 (<0.1)	104Rh (180.9)	122.9 (<0.1)	158Gd (181.9)	125.2 (1.9)	110Ag (198.7)
119.6 (1.4)	182Ta (270.4)	123.0 (<0.1)	152Eu (89.8)	125.2 (<0.1)	152Eu (89.8)
119.6 (<0.1)	160Tb (75.1)	123.1 (2.4)	153Eu (97.4)	125.3 (0.9)	198Au (214.8)
119.6 (0.3)	152Eu (89.8)	123.1 (1.3)	198Au (214.8)	125.3 (<0.1)	152Eu (89.8)
119.6 (<0.1)	80Br (37.1)	123.2 (<0.1)	152Eu (89.8)	125.4 (0.3)	186Re (59.0)
119.6 (<0.1)	152Eu (89.8)	123.2 (0.2)	235U (4155.1)	125.4 (<0.1)	177Lu (150.4)
119.7 (1.4)	176Lu (71.5)	123.2 (0.3)	152Eu (89.8)	125.5 (<0.1)	152Eu (89.8)
119.7 (<0.1)	152Eu (89.8)	123.2 (0.2)	177Lu (150.4)	125.6 (<0.1)	104Rh (180.9)
119.8 (43.0)	153Sm (127.3)	123.3 (<0.1)	80Br (37.1)	125.6 (<0.1)	152Eu (89.8)
119.8 (<0.1)	152Eu (89.8)	123.3 (0.2)	188Re (63.6)	125.7	175Hf
119.8 (1.5)	156Gd (89.0)	123.3 (<0.1)	152Eu (89.8)	125.7 (0.4)	154Eu (68.2)
119.8 (<0.1)	188Re (63.6)	123.3 (1.1)	164Dy (73.4)	125.8 (3.2)	77Se (238.9)
119.8 (7.6)	177Lu (150.4)	123.4 (<0.1)	152Eu (89.8)	125.8 (<0.1)	152Eu (89.8)
119.8 (0.2)	154Eu (68.2)	123.4 (0.2)	188Re (63.6)	125.8 (0.1)	176Lu (71.5)
119.8 (<0.1)	152Eu (89.8)	123.4 (0.4)	166Ho (136.7)	125.8 (<0.1)	188Re (63.6)
119.9	124Sb	123.5 (1.8)	56Mn (26.6)	125.8 (<0.1)	178Hf (213.4)
119.9 (<0.1)	152Eu (89.8)	123.5 (2.9)	186Re (59.0)	125.9 (<0.1)	152Eu (89.8)
120.0 (9.1)	173Yb (399.4)	123.5 (0.3)	152Eu (89.8)	125.9 (0.2)	56Mn (26.6)
120.0 (<0.1)	152Eu (89.8)	123.6 (<0.1)	110Ag (198.7)	125.9 (0.4)	152Eu (89.8)
120.3 (<0.1)	152Eu (89.8)	123.6 (0.5)	153Sm (127.3)	126.0	81Se
120.3 (3.7)	86Rb (557.0)	123.6 (<0.1)	152Eu (89.8)	126.0	94Nb
120.4 (<0.1)	152Eu (89.8)	123.7 (0.2)	104Rh (180.9)	126.0 (<0.1)	152Eu (89.8)
120.4 (1.2)	154Eu (68.2)	123.8 (<0.1)	110Ag (198.7)	126.2 (<0.1)	152Eu (89.8)
120.4 (<0.1)	152Eu (89.8)	123.8 (0.1)	152Eu (89.8)	126.2 (<0.1)	177Lu (150.4)
120.5 (1.4)	176Lu (71.5)	123.8 (20.0)	194Ir (371.7)	126.2 (3.9)	166Ho (136.7)
120.6	175Yb	123.8 (0.5)	193Os (5276.0)	126.3 (<0.1)	152Eu (89.8)
120.6 (14.9)	134Cs (116.4)	123.9 (<0.1)	177Lu (150.4)	126.3 (1.2)	80Br (37.1)
120.6 (2.0)	153Sm (127.3)	123.9 (0.5)	152Eu (89.8)	126.3 (<0.1)	152Eu (89.8)
120.6 (<0.1)	163Dy (351.1)	123.9 (0.4)	104Rh (180.9)	126.4 (12.1)	116In (273.0)
120.7 (<0.1)	152Eu (89.8)	124.0 (<0.1)	152Eu (89.8)	126.4	175Yb
120.7 (<0.1)	158Gd (181.9)	124.0	122Sb	126.4 (0.5)	238Np (5352.0)
120.8 (0.3)	152Eu (89.8)	124.0 (0.1)	152Eu (89.8)	126.4 (<0.2)	153Sm (127.3)
121.0 (2.2)	72Ga (145.1)	124.0 (2.0)	80Br (37.1)	126.5 (<0.1)	80Br (37.1)
121.0 (1.2)	198Au (214.8)	124.0 (1.3)	176Lu (71.5)	126.5 (<0.1)	152Eu (89.8)
121.1 (3.2)	75Ge (574.7)	124.1 (<0.1)	152Eu (89.8)	126.6 (<0.1)	177Lu (150.4)
121.1 (<0.1)	177Lu (150.4)	124.1 (3.5)	184W (111.2)	126.7 (12.2)	153Eu (97.4)
121.1 (<0.1)	76As (165.0)	124.2 (<0.1)	152Eu (89.8)	126.7 (<0.1)	78Se (613.8)
121.2 (<0.1)	152Eu (89.8)	124.2 (<0.1)	163Dy (351.1)	126.7 (1.2)	80Br (37.1)
121.2 (<0.1)	177Lu (150.4)	124.3 (<0.1)	152Eu (89.8)	126.8 (0.1)	152Eu (89.8)
121.3 (<0.1)	152Eu (89.8)	124.3 (<0.1)	80Br (37.1)	126.8 (28.9)	142Pr (176.9)
121.5 (<0.1)	152Eu (89.8)	124.3	128I	126.9 (0.9)	154Eu (68.2)
121.5	122Sb	124.3 (2.8)	187W (5261.8)	126.9 (<0.1)	152Eu (89.8)
121.5 (0.3)	188Re (63.6)	124.3 (0.3)	238Np (5352.0)	126.9 (<0.1)	249Cm (1408.3)
121.6 (0.2)	152Eu (89.8)	124.3 (<0.1)	152Eu (89.8)	126.9 (3.3)	194Ir (371.7)
121.6 (1.0)	105Ru (143.2)	124.4 (1.1)	154Eu (68.2)	127.0 (<0.1)	152Eu (89.8)
121.6 (34.8)	177Lu (150.4)	124.4 (0.6)	177Lu (150.4)	127.0	175Yb
121.7 (<0.1)	152Eu (89.8)	124.5 (14.5)	52V (125.1)	127.0 (<0.1)	166Ho (136.7)
121.8 (<0.1)	162Dy (185.0)	124.5 (<0.1)	152Eu (89.8)	127.0 (<0.1)	152Eu (89.8)
121.8 (1.5)	238Np (5352.0)	124.6 (2.8)	142Pr (176.9)	127.0	124Sb
121.8 (<0.1)	80Br (37.1)	124.6 (0.4)	152Eu (89.8)	127.1 (<0.1)	177Lu (150.4)
121.8 (<0.1)	152Eu (89.8)	124.6 (58.8)	177Yb (151.6)	127.1 (<0.1)	152Eu (89.8)
121.9 (<0.1)	165Dy (108.2)	124.6 (0.3)	104Rh (180.9)	127.2 (<0.1)	185Os (6588.0)
121.9 (0.3)	235U (4155.1)	124.7 (<0.1)	158Gd (181.9)	127.3 (100.0)	153Sm (127.3)
122.0 (43.3)	114In (311.7)	124.7 (<0.1)	152Eu (89.8)	127.3 (21.1)	104Rh (180.9)
122.0 (<0.1)	80Br (37.1)	124.7 (<0.1)	80Br (37.1)	127.4 (5.3)	186Re (59.0)
122.0 (<0.1)	152Eu (89.8)	124.8 (<0.1)	152Eu (89.8)	127.5 (7.5)	134Cs (116.4)

Table I. CAPTURE γ 's - energy sorted (cont.)

Energy (keV) (% γ)	Nucleus (Strongest γ)	Energy (keV) (% γ)	Nucleus (Strongest γ)	Energy (keV) (% γ)	Nucleus (Strongest γ)
127.6 (<0.1)	80Br (37.1)	130.7 (<0.1)	152Eu (89.8)	133.8 (<0.1)	152Eu (89.8)
127.6 (7.8)	187W (5261.8)	130.8 (0.3)	189Re (63.6)	133.9	124Sb
127.6 (<0.1)	152Eu (89.8)	130.8 (<0.1)	80Br (37.1)	133.9 (33.0)	182Ta (270.4)
127.7 (0.5)	134Cs (116.4)	130.8 (<0.1)	163Dy (351.1)	133.9 (<0.1)	152Eu (89.8)
127.7 (3.3)	188Re (63.6)	130.9 (<0.1)	177Lu (150.4)	133.9	122Sb
127.8 (16.8)	185Os (6588.0)	130.9 (<0.1)	152Eu (89.8)	134.0 (<0.1)	152Eu (89.8)
127.8 (<0.1)	152Eu (89.8)	131.0 (0.9)	154Eu (68.2)	134.0 (<0.1)	160Tb (75.1)
127.9 (1.2)	193Os (5276.0)	131.0 (10.3)	197Pt (5846.3)	134.0 (<0.1)	166Ho (136.7)
127.9 (44.5)	147Nd (314.7)	131.1 (<0.1)	152Eu (89.8)	134.0 (<0.1)	152Eu (89.8)
127.9 (0.1)	151Nd (4487.8)	131.1 (5.1)	188Re (63.6)	134.1 (0.7)	156Gd (89.0)
128.0 (0.2)	152Eu (89.8)	131.1 (13.3)	193Os (5276.0)	134.2 (<0.1)	152Eu (89.8)
128.1 (<0.1)	152Eu (89.8)	131.2 (0.2)	152Eu (89.8)	134.2 (1.0)	186Re (59.0)
128.1 (<0.1)	188Re (63.6)	131.2 (0.3)	134Cs (116.4)	134.2 (<0.1)	152Eu (89.8)
128.2 (0.1)	80Br (37.1)	131.2 (<0.1)	163Dy (351.1)	134.3 (<0.1)	177Yb (151.6)
128.2 (0.2)	154Eu (68.2)	131.3 (<0.1)	152Eu (89.8)	134.3 (<0.1)	158Gd (181.9)
128.3 (<0.1)	152Eu (89.8)	131.4 (1.2)	151Nd (4487.8)	134.3 (<0.1)	166Ho (136.7)
128.3 (<0.1)	163Dy (351.1)	131.5 (0.2)	152Eu (89.8)	134.3 (<0.1)	152Eu (89.8)
128.3 (<0.1)	152Eu (89.8)	131.6 (0.3)	152Eu (89.8)	134.4 (0.1)	176Lu (71.5)
128.4 (0.1)	177Lu (150.4)	131.7 (0.2)	188Re (63.6)	134.4 (<0.1)	152Eu (89.8)
128.4 (<0.1)	152Eu (89.8)	131.7 (<0.1)	152Eu (89.8)	134.6 (0.4)	154Eu (68.2)
128.5 (<0.1)	68Zn (1077.4)	131.7 (2.1)	167Er (207.8)	134.6 (<0.1)	152Eu (89.8)
128.5 (1.6)	72Ga (145.1)	131.8 (<0.1)	152Eu (89.8)	134.6 (25.4)	104Rh (180.9)
128.6 (1.3)	188Re (63.6)	131.8 (0.5)	166Ho (136.7)	134.7 (<0.1)	152Eu (89.8)
128.7 (1.4)	186Re (59.0)	131.8 (0.2)	152Eu (89.8)	134.7 (0.1)	176Lu (71.5)
128.7 (<0.1)	152Eu (89.8)	131.8 (<0.1)	158Gd (181.9)	134.7 (<0.1)	152Eu (89.8)
128.8 (3.2)	153Eu (97.4)	131.8	172Yb	134.8 (<0.1)	158Gd (181.9)
128.8 (<0.1)	152Eu (89.8)	131.9 (1.7)	104Rh (180.9)	134.9 (<0.1)	152Eu (89.8)
129.0 (<0.1)	152Eu (89.8)	132.0 (2.0)	153Eu (97.4)	135.1 (<0.1)	151Nd (4487.8)
129.0 (0.4)	56Mn (26.6)	132.0 (<0.1)	80Br (37.1)	135.1 (0.8)	147Nd (314.7)
129.0 (<0.1)	80Br (37.1)	132.1 (0.1)	114In (311.7)	135.2 (<0.1)	150Sm (334.0)
129.0 (<0.1)	152Eu (89.8)	132.1 (<0.1)	204Tl (139.9)	135.2 (0.9)	152Eu (89.8)
129.1 (1.1)	187W (5261.8)	132.1 (<0.1)	152Eu (89.8)	135.2 (23.4)	197Pt (5846.3)
129.1 (<0.1)	177Lu (150.4)	132.2 (0.2)	235U (4155.1)	135.2 (4.8)	104Rh (180.9)
129.1 (4.3)	249Cm (1408.3)	132.2 (<0.1)	152Eu (89.8)	135.3 (0.3)	186Re (59.0)
129.2	169Yb	132.2 (0.3)	104Rh (180.9)	135.3 (0.5)	158Gd (181.9)
129.2 (<0.1)	152Eu (89.8)	132.3 (<0.1)	152Eu (89.8)	135.3 (<0.1)	152Eu (89.8)
129.3 (34.7)	235U (4155.1)	132.4 (<0.1)	80Br (37.1)	135.3 (0.3)	188Re (63.6)
129.3 (1.1)	154Eu (68.2)	132.4 (2.8)	72Ga (145.1)	135.3 (1.9)	154Eu (68.2)
129.3 (<0.1)	178Hf (213.4)	132.4 (<0.1)	165Dy (108.2)	135.4 (<0.1)	152Eu (89.8)
129.4 (<0.1)	152Eu (89.8)	132.5 (0.2)	152Eu (89.8)	135.5 (0.5)	188Re (63.6)
129.4 (10.5)	153Sm (127.3)	132.5 (0.2)	142Pr (176.9)	135.5 (<0.1)	152Eu (89.8)
129.4 (0.2)	152Eu (89.8)	132.6 (<0.1)	152Eu (89.8)	135.5 (1.1)	198Au (214.8)
129.4 (<0.1)	185Os (6588.0)	132.7 (0.3)	154Eu (68.2)	135.5 (0.5)	153Sm (127.3)
129.4 (<0.1)	152Eu (89.8)	132.7 (2.1)	140La (5097.9)	135.5 (<0.1)	152Eu (89.8)
129.4 (1.2)	104Rh (180.9)	132.7 (<0.1)	152Eu (89.8)	135.6 (<0.1)	160Tb (75.1)
129.5	124Sb	132.8 (0.6)	134Cs (116.4)	135.7 (<0.1)	152Eu (89.8)
129.5 (<0.1)	152Eu (89.8)	132.8 (1.1)	198Au (214.8)	135.7 (0.2)	188Re (63.6)
129.5 (<0.1)	114In (311.7)	132.8 (5.4)	194Ir (371.7)	135.7 (<0.1)	162Dy (185.0)
129.6 (<0.1)	152Eu (89.8)	132.8 (<0.1)	177Lu (150.4)	135.7 (0.3)	186Re (59.0)
129.6 (<0.1)	177Lu (150.4)	132.8 (D.3)	176Lu (71.5)	135.8 (2.2)	177Lu (150.4)
129.6 (<0.1)	152Eu (89.8)	132.8 (1.6)	188Re (63.6)	135.8 (<0.1)	152Eu (89.8)
129.8 (<0.1)	152Eu (89.8)	132.9 (0.7)	152Eu (89.8)	136.0 (<0.1)	152Eu (89.8)
129.8 (4.0)	176Lu (71.5)	132.9 (0.4)	116In (273.0)	136.0 (2.0)	72Ga (145.1)
129.8 (<0.1)	152Eu (89.8)	133.0 (0.2)	152Eu (89.8)	136.0 (4.2)	238Np (5352.0)
129.9 (5.6)	249Cm (1408.3)	133.0 (<0.1)	114In (311.7)	136.0 (<0.1)	76As (165.0)
129.9 (<0.1)	80Br (37.1)	133.2 (0.2)	188Re (63.6)	136.1 (<0.1)	152Eu (89.8)
129.9 (0.3)	104Rh (180.9)	133.3 (<0.1)	152Eu (89.8)	136.1 (96.9)	103Ru (174.0)
129.9 (<0.1)	152Eu (89.8)	133.5 (<0.1)	152Eu (89.8)	136.1 (<0.1)	152Eu (89.8)
130.0 (1.1)	188Re (63.6)	133.5 (0.1)	80Br (37.1)	136.2 (0.1)	114In (311.7)
130.0 (<0.1)	152Eu (89.8)	133.5	169Yb	136.2 (0.1)	170Tm (204.5)
130.0 (8.7)	170Tm (204.5)	133.6 (<0.1)	152Eu (89.8)	136.2 (0.3)	177Lu (150.4)
130.1 (0.1)	177Lu (150.4)	133.6 (0.9)	134Cs (116.4)	136.3 (<0.1)	116In (273.0)
130.1 (<0.1)	152Eu (89.8)	133.6	128I	136.4 (<0.1)	76As (165.0)
130.2 (49.0)	134Cs (116.4)	133.7 (7.0)	249Cm (1408.3)	136.4 (<0.1)	152Eu (89.8)
130.3 (<0.1)	200Hg (367.9)	133.7 (1.5)	176Lu (71.5)	136.5 (<0.1)	167Er (207.8)
130.3 (7.8)	249Cm (1408.3)	133.7 (<0.1)	68Zn (1077.4)	136.5 (<0.1)	152Eu (89.8)
130.3 (<0.1)	152Eu (89.8)	133.7 (<0.1)	152Eu (89.8)	136.5	124Sb
130.4 (<0.1)	152Eu (89.8)	133.8 (<0.1)	177Lu (150.4)	136.5 (<0.1)	152Eu (89.8)
130.6 (<0.1)	152Eu (89.8)	133.8 (100.0)	239U (133.8)	136.5 (0.7)	105Ru (143.2)
130.7 (<0.1)	168Er (6228.8)	133.8 (<0.1)	162Dy (185.0)	136.6 (0.6)	110Ag (198.7)

Table 1. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\% \gamma$)	Nucleus (Strongest γ)	E_{γ} keV ($\% \gamma$)	Nucleus (Strongest γ)	E_{γ} keV ($\% \gamma$)	Nucleus (Strongest γ)
136.6 (1.8)	57Fe (7631.6)	139.3 (<0.1)	158Gd (181.9)	142.1 (<0.1)	163Dy (351.1)
136.6 (<0.1)	152Eu (89.8)	139.3 (27.9)	114In (311.7)	142.1 (<0.1)	80Br (37.1)
136.7 (100.0)	166Ho (136.7)	139.3 (4.2)	86Rb (557.0)	142.1	128I
136.7 (0.2)	154Eu (68.2)	139.3 (<0.1)	151Sm (5288.0)	142.2 (<0.1)	152Eu (89.8)
136.7 (0.2)	176Lu (71.5)	139.4 (<0.1)	152Eu (89.8)	142.2 (0.6)	198Au (214.8)
136.8 (0.3)	80Br (37.1)	139.4 (8.3)	176Lu (71.5)	142.2 (0.2)	235U (4155.1)
136.8 (<0.1)	152Eu (89.8)	139.4 (0.2)	104Rh (180.9)	142.2 (<0.1)	152Eu (89.8)
137.0 (<0.1)	152Eu (89.8)	139.4 (2.5)	186Re (59.0)	142.2 (0.1)	134Cs (116.4)
137.1 (76.2)	186Re (59.0)	139.4 (<0.1)	158Gd (181.9)	142.2 (<0.1)	177Lu (150.4)
137.2 (<0.1)	152Eu (89.8)	139.5 (0.1)	152Eu (89.8)	142.3 (2.3)	182Ta (270.4)
137.2 (3.2)	249Cm (1408.3)	139.5 (4.0)	182Ta (270.4)	142.3 (<0.1)	76As (165.0)
137.2 (<0.1)	158Gd (181.9)	139.6 (<0.1)	152Eu (89.8)	142.3 (3.6)	72Ga (145.1)
137.2 (<0.1)	152Eu (89.8)	139.6 (3.2)	72Ga (145.1)	142.4	172Yb
137.4 (<0.1)	180Tb (75.1)	139.6 (<0.1)	162Dy (185.0)	142.5 (<0.1)	158Gd (181.9)
137.5 (0.7)	142Pr (176.9)	139.7 (0.4)	184W (111.2)	142.5	175Yb
137.5 (<0.1)	152Eu (89.8)	139.7 (<0.1)	152Eu (89.8)	142.5 (46.5)	46Sc (227.8)
137.5 (<0.1)	163Dy (351.1)	139.7 (0.3)	202Hg (439.5)	142.5 (<0.1)	152Eu (89.8)
137.5 (0.2)	176Lu (71.5)	139.7 (0.3)	177Lu (150.4)	142.7 (<0.1)	188Re (63.6)
137.5 (<0.1)	188Re (63.6)	139.8 (<0.1)	80Br (37.1)	142.7 (<0.1)	152Eu (89.8)
137.5 (<0.1)	168Er (6228.8)	139.8 (0.9)	152Eu (89.8)	142.7 (<0.1)	162Dy (185.0)
137.5 (1.4)	140La (5037.9)	139.9 (0.1)	68Zn (1077.4)	142.8 (0.1)	152Eu (89.8)
137.5 (0.1)	52V (1.5.1)	139.9 (100.0)	204Tl (139.9)	142.8 (2.4)	134Cs (116.4)
137.5 (0.1)	170Tm (204.5)	139.9 (<0.1)	158Gd (181.9)	142.8 (<0.1)	158Gd (181.9)
137.5 (<0.1)	200Hg (367.9)	139.9 (<0.1)	152Eu (89.8)	142.8 (1.1)	186Re (59.0)
137.5 (<0.1)	166Ho (136.7)	140.0 (0.6)	78Se (613.8)	142.8 (<0.1)	177Lu (150.4)
137.5 (<0.1)	152Eu (89.8)	140.1 (4.9)	186Re (59.0)	142.8 (2.3)	198Au (214.8)
137.6 (<0.1)	177Lu (150.4)	140.1 (0.2)	152Eu (89.8)	142.8 (<0.1)	152Eu (89.8)
137.6 (0.1)	80Br (37.1)	140.2 (<0.1)	145Nd (852.8)	142.9 (0.9)	97Y
137.6 (0.2)	152Eu (89.8)	140.3 (0.7)	141In (311.7)	143.1 (<0.1)	158Gd (181.9)
137.7 (6.8)	198Au (214.8)	140.3 (0.7)	152Eu (89.8)	143.1 (<0.1)	152Eu (89.8)
137.7 (<0.1)	152Eu (89.8)	140.4 (3.2)	147Nd (314.7)	143.1 (1.1)	188Re (63.6)
137.7 (1.8)	104Rh (180.9)	140.5 (6.0)	116In (273.0)	143.2 (6.5)	76As (165.0)
137.8 (0.7)	134Cs (116.4)	140.5 (<0.1)	152Eu (89.8)	143.2 (<0.1)	151Sm (5288.0)
137.8 (<0.1)	152Eu (89.8)	140.5 (0.6)	176Lu (71.5)	143.2 (100.0)	105Ru (143.2)
137.8 (5.8)	249Cm (1408.3)	140.5 (<0.1)	177Lu (150.4)	143.2 (2.3)	152Eu (89.8)
137.8 (1.1)	153Eu (97.4)	140.5 (0.3)	166Ho (136.7)	143.2	124Sb
137.9 (0.4)	152Eu (89.8)	140.6 (<0.1)	80Br (37.1)	143.3 (2.4)	182Ta (270.4)
138.0	124Sb	140.7 (<0.1)	162Dy (185.0)	143.3 (25.0)	194Ir (371.7)
138.0 (<0.1)	150Sm (334.0)	140.7 (0.1)	235U (4155.1)	143.3 (0.1)	152Eu (89.8)
138.1 (<0.1)	152Eu (89.8)	140.8 (<0.1)	152Eu (89.8)	143.4 (<0.1)	80Br (37.1)
138.1 (17.8)	197Pt (5846.3)	140.9 (0.5)	178Hf (213.4)	143.5 (<0.1)	152Eu (89.8)
138.1 (<0.1)	152Eu (89.8)	140.9 (18.5)	147Nd (314.7)	143.5 (<0.1)	116In (273.0)
138.2 (0.1)	170Tm (204.5)	140.9 (<0.1)	200Hg (367.9)	143.6 (<0.1)	152Eu (89.8)
138.2 (0.3)	153Sm (127.3)	140.9 (<0.1)	152Eu (89.8)	143.7 (<0.1)	177Lu (150.4)
138.2 (0.5)	186Re (59.0)	140.9 (42.3)	142Pr (176.9)	143.8 (0.2)	152Eu (89.8)
138.3 (<0.1)	152Eu (89.8)	140.9 (0.7)	186Re (59.0)	143.9 (10.0)	186Re (59.0)
138.3 (0.5)	153Sm (127.3)	141.0 (1.8)	188Re (63.6)	144.0 (<0.1)	158Gd (181.9)
138.3 (<0.1)	152Eu (89.8)	141.0 (6.7)	75Se (286.6)	144.1 (1.1)	110Ag (198.7)
138.4 (39.3)	105Ru (143.2)	141.1 (<0.1)	104Rh (180.9)	144.2 (33.1)	186Re (59.0)
138.4 (4.5)	249Cm (1408.3)	141.1 (2.8)	173Yb (399.4)	144.2 (<0.1)	152Eu (89.8)
138.4 (<0.1)	152Eu (89.8)	141.1 (27.1)	177Yb (151.6)	144.2 (0.6)	188Re (63.6)
138.5 (<0.1)	200Hg (367.9)	141.2 (6.7)	116In (273.0)	144.2 (0.7)	152Eu (89.8)
138.5 (<0.1)	152Eu (89.8)	141.2 (<0.1)	158Gd (181.9)	144.3 (<0.1)	152Eu (89.8)
138.5 (<0.1)	156Gd (89.0)	141.2 (<0.1)	152Eu (89.8)	144.3 (1.1)	110Ag (198.7)
138.5 (5.7)	191Os (5147.1)	141.2 (3.2)	182Ta (270.4)	144.4 (0.6)	186Re (59.0)
138.6 (<0.1)	152Eu (89.8)	141.2 (<0.1)	76As (165.0)	144.5 (0.8)	238Np (5352.0)
138.6 (<0.1)	160Tb (75.1)	141.2 (0.7)	188Re (63.6)	144.5 (2.3)	176Lu (71.5)
138.6 (24.0)	194Ir (371.7)	141.2 (<0.1)	80Br (37.1)	144.5 (54.3)	170Tm (204.5)
138.6 (42.1)	177Lu (150.4)	141.2 (<0.1)	152Eu (89.8)	144.5 (<0.1)	152Eu (89.8)
138.6 (0.2)	153Sm (127.3)	141.3 (3.5)	186Re (59.0)	144.5 (1.8)	198Au (214.8)
138.7 (2.3)	104Rh (180.9)	141.3 (<0.1)	152Eu (89.8)	144.6 (<0.1)	76As (165.0)
138.7 (<0.1)	134Cs (116.4)	141.4	122Sb	144.6	169Yb
138.7 (2.3)	188Re (63.6)	141.4 (<0.1)	152Eu (89.8)	144.6 (<0.1)	80Br (37.1)
138.9 (<0.1)	152Eu (89.8)	141.5 (3.9)	153Eu (97.4)	144.6 (<0.1)	185Os (6588.0)
139.0 (<0.1)	80Br (37.1)	141.6 (0.5)	166Ho (136.7)	144.6 (<0.1)	200Hg (367.9)
139.0 (<0.1)	152Eu (89.8)	141.6 (0.2)	235U (4155.1)	144.7 (<0.1)	152Eu (89.8)
139.1 (31.3)	77Se (238.9)	141.8 (13.6)	188Re (63.6)	144.7 (7.1)	177Lu (150.4)
139.1 (2.0)	165Dy (108.2)	141.8 (<0.1)	185Os (6588.0)	144.8 (<0.1)	162Dy (185.0)
139.2 (<0.1)	152Eu (89.8)	141.8 (0.2)	152Eu (89.8)	144.8 (<0.1)	152Eu (89.8)
139.2 (53.3)	75Ge (574.7)	142.0	175Yb	144.9 (0.4)	170Tm (204.5)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\chi_{1\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\chi_{1\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\chi_{1\gamma}$)	Nucleus (Strongest γ)
144.9 (0.2)	152Eu (89.8)	147.5 (0.3)	188Re (63.6)	149.7 (64.1)	170Tm (204.5)
145.0 (<0.1)	80Br (37.1)	147.5 (4.3)	176Lu (71.5)	149.7 (<0.1)	168Er (6228.8)
145.0 (<0.1)	152Eu (89.8)	147.6 (0.5)	152Eu (89.8)	149.7 (2.4)	249Cm (1408.3)
145.1 (4.6)	198Au (214.8)	147.6 (3.9)	101Mo (180.7)	149.8 (<0.1)	152Eu (89.8)
145.1 (100.0)	72Ga (145.1)	147.6 (<0.1)	152Eu (89.8)	149.9 (<0.1)	158Gd (181.9)
145.1 (<0.1)	152Eu (89.8)	147.7 (<0.1)	150Sm (334.0)	150.1 (2.5)	114In (311.7)
145.1 (0.8)	186Re (59.0)	147.7 (0.3)	156Gd (89.0)	150.1 (<0.1)	152Eu (89.8)
145.1 (0.4)	176Lu (71.5)	147.7	179Hf	150.3 (5.1)	249Cm (1408.3)
145.2 (3.4)	188Re (63.6)	147.7 (<0.1)	152Eu (89.8)	150.4 (100.0)	177Lu (150.4)
145.2 (<0.1)	152Eu (89.8)	147.8 (0.8)	185W (4573.6)	150.4 (<0.1)	152Eu (89.8)
145.3 (0.1)	56Mn (26.6)	147.8 (<0.1)	152Eu (89.8)	150.5	94Nb
145.3 (<0.1)	162Dy (185.0)	147.8 (2.1)	249Cm (1408.3)	150.5 (4.4)	186Re (59.0)
145.4 (2.4)	154Eu (68.2)	147.8 (17.4)	52V (125.1)	150.5 (<0.1)	152Eu (89.8)
145.4 (<0.1)	152Eu (89.8)	147.8 (<0.1)	152Eu (89.8)	150.6 (<0.1)	158Gd (181.9)
145.5 (0.6)	193Os (5276.0)	147.9 (<0.1)	80Br (37.1)	150.6 (0.3)	162Dy (185.0)
145.6 (<0.1)	185Os (6588.0)	148.0	81Se	150.7 (0.5)	152Eu (89.8)
145.6 (<0.1)	152Eu (89.8)	148.0 (<0.1)	200Hg (367.9)	150.8 (0.8)	176Lu (71.5)
145.7 (5.8)	188Re (63.6)	148.0 (<0.1)	152Eu (89.8)	150.8 (0.6)	134Cs (116.4)
145.8 (<0.1)	152Eu (89.8)	148.1 (<0.1)	178Hf (213.4)	150.8 (0.1)	152Eu (89.8)
145.8 (<0.1)	158Gd (181.9)	148.1 (<0.1)	152Eu (89.8)	150.9 (0.1)	177Lu (150.4)
145.8 (<0.1)	204Tl (139.9)	148.1 (0.3)	186Re (59.0)	150.9 (<0.1)	152Eu (89.8)
145.8 (70.6)	187W (5261.8)	148.1 (1.3)	147Nd (314.7)	151.0 (2.9)	188Re (63.6)
145.8 (<0.1)	152Eu (89.8)	148.1 (0.1)	235U (4155.1)	151.0 (1.0)	185W (4573.6)
145.9 (9.0)	177Lu (150.4)	148.2 (2.9)	249Cm (1408.3)	151.0 (0.2)	104Rh (180.9)
145.9 (0.1)	164Dy (73.4)	148.2 (1.0)	176Lu (71.5)	151.0 (<0.1)	152Eu (89.8)
145.9 (4.3)	154Eu (68.2)	148.2	122Sb	151.1 (<0.1)	150Sm (334.0)
145.9 (<0.1)	152Eu (89.8)	148.2 (<0.1)	152Eu (89.8)	151.1	172Yb
146.0 (<0.1)	152Eu (89.8)	148.3 (0.1)	80Br (37.1)	151.1 (0.3)	114In (311.7)
146.1	175Yb	148.3 (<0.1)	152Eu (89.8)	151.1 (1.0)	188Re (63.6)
146.1 (<0.1)	152Eu (89.8)	148.3 (<0.1)	177Yb (151.6)	151.2 (<0.1)	152Eu (89.8)
146.2 (1.8)	114In (311.7)	148.3 (<0.1)	162Dy (185.0)	151.3 (<0.1)	178Hf (213.4)
146.3 (3.4)	198Au (214.8)	148.4 (<0.1)	152Eu (89.8)	151.5 (<0.1)	152Eu (89.8)
146.3 (1.3)	186Re (59.0)	148.4 (0.7)	186Re (59.0)	151.5 (<0.1)	169Er (429.9)
146.3 (<0.1)	152Eu (89.8)	148.4 (0.2)	152Eu (89.8)	151.5 (<0.1)	152Eu (89.8)
146.3 (<0.1)	168Er (6228.8)	148.4 (2.6)	167Er (207.8)	151.6 (<0.1)	68Zn (1077.4)
146.4 (5.3)	187Os (427.1)	148.5 (<0.1)	200Hg (367.9)	151.6 (100.0)	177Yb (151.6)
146.4 (0.3)	134Cs (116.4)	148.5 (0.4)	198Au (214.8)	151.6 (25.0)	153Eu (97.4)
146.4 (<0.1)	152Eu (89.8)	148.6 (0.2)	152Eu (89.8)	151.6 (<0.1)	150Sm (334.0)
146.5 (3.9)	249Cm (1408.3)	148.7 (1.4)	193Os (5276.0)	151.7 (21.5)	186Re (59.0)
146.5 (<0.1)	152Eu (89.8)	148.7 (2.4)	164Dy (73.4)	151.7 (<0.1)	176Lu (71.5)
146.5 (0.1)	104Rh (180.9)	148.7 (52.0)	194Ir (371.7)	151.9 (<0.1)	152Eu (89.8)
146.5 (0.6)	116In (273.0)	148.8 (<0.1)	152Eu (89.8)	151.9 (13.6)	153Eu (97.4)
146.5 (<0.1)	151Nd (4487.8)	148.8 (0.3)	162Dy (185.0)	151.9 (<0.1)	158Gd (181.9)
146.6 (0.1)	152Eu (89.8)	148.8 (0.3)	152Eu (89.8)	151.9 (0.2)	154Eu (38.2)
146.6 (3.4)	198Au (214.8)	148.9 (3.3)	187W (5261.8)	151.9 (<0.1)	200Hg (367.9)
146.6 (<0.1)	188Re (63.6)	148.9 (0.3)	184W (111.2)	152.0 (<0.1)	152Eu (89.8)
146.6 (<0.1)	152Eu (89.8)	148.9 (<0.1)	152Eu (89.8)	152.0 (<0.1)	143Nd (742.1)
146.6 (<0.1)	163Dy (351.1)	148.9 (0.1)	104Rh (180.9)	152.1 (<0.1)	152Eu (89.8)
146.6 (<0.1)	150Sm (334.0)	149.0 (<0.1)	152Eu (89.8)	152.2 (<0.1)	98Mo (787.4)
146.6 (0.2)	235U (4155.1)	149.0 (5.2)	186Re (59.0)	152.2 (<0.1)	152Eu (89.8)
146.7 (0.3)	153Sm (127.3)	149.0	210Bi	152.4 (<0.1)	152Eu (89.8)
146.8 (6.7)	182Ta (270.4)	149.1 (0.4)	152Eu (89.8)	152.4 (<0.1)	80Br (37.1)
146.8	108Ag	149.1 (0.4)	162Dy (185.0)	152.4 (<0.1)	152Eu (89.8)
146.8 (<0.1)	152Eu (89.8)	149.1 (0.2)	178Hf (213.4)	152.5 (<0.1)	166Ho (136.7)
146.8 (0.3)	166Ho (136.7)	149.2 (<0.1)	110Ag (198.7)	152.5 (30.0)	194Ir (371.7)
146.8 (<0.1)	158Gd (181.9)	149.2 (<0.1)	158Gd (181.9)	152.5 (0.2)	154Eu (68.2)
146.9 (1.0)	80Br (37.1)	149.2 (<0.1)	152Eu (89.8)	152.6 (0.1)	104Rh (180.9)
147.0 (<0.1)	152Eu (89.8)	149.3 (15.5)	166Ho (136.7)	152.6 (0.2)	188Re (63.6)
147.0 (<0.1)	188Re (63.6)	149.4 (<0.1)	152Eu (89.8)	152.6 (<0.1)	152Eu (89.8)
147.0 (55.5)	46Sc (227.8)	149.4 (0.3)	153Sm (127.3)	152.7 (<0.1)	152Eu (89.8)
147.0 (<0.1)	152Eu (89.8)	149.4 (0.1)	152Eu (89.8)	152.8 (3.4)	110Ag (198.7)
147.1 (3.6)	153Sm (127.3)	149.5 (0.4)	177Lu (150.4)	152.8 (<0.1)	177Lu (150.4)
147.1	128I	149.5 (<0.1)	152Eu (89.8)	152.8 (<0.1)	76As (165.0)
147.1 (0.1)	152Eu (89.8)	149.5 (1.0)	134Cs (116.4)	152.9 (<0.1)	152Eu (89.8)
147.2 (22.4)	177Lu (150.4)	149.5 (6.2)	186Re (59.0)	152.9 (0.5)	153Eu (97.4)
147.2 (0.2)	152Eu (89.8)	149.6 (<0.1)	188Re (63.6)	152.9 (<0.1)	204Tl (139.9)
147.3 (14.4)	114In (311.7)	149.6 (<0.1)	68Zn (1077.4)	152.9 (4.0)	238Np (5352.0)
147.3 (<0.1)	152Eu (89.8)	149.6 (<0.1)	169Er (429.9)	153.0	129I
147.4 (10.0)	186Re (59.0)	149.6 (1.9)	174Yb (176.6)	153.0 (<0.1)	152Eu (89.8)
147.4 (<0.1)	152Eu (89.8)	149.7 (2.0)	116In (273.0)	153.1 (1.1)	142Pr (176.9)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV (χ^2/ν)	Nucleus (Strongest γ)	E_{γ} keV (χ^2/ν)	Nucleus (Strongest γ)	E_{γ} keV (χ^2/ν)	Nucleus (Strongest γ)
153.2 (<0.1)	152Eu (89.8)	156.2 (<0.1)	151Sm (5288.0)	159.9 (<2.7)	249Cm (1408.3)
153.2 (<0.1)	188Re (63.6)	156.2 (0.5)	185Dy (108.2)	159.9 (<0.1)	160Tb (75.1)
153.3 (<0.1)	152Eu (89.8)	156.3 (0.1)	176Lu (71.5)	159.9 (0.3)	186Re (59.0)
153.4 (<0.1)	1850s (6588.0)	156.4 (<0.1)	152Eu (89.8)	159.9 (<0.1)	152Eu (89.8)
153.4 (<0.1)	152Eu (89.8)	156.4	81Se	159.9 (<0.1)	158Gd (181.9)
153.5 (13.3)	176Lu (71.5)	156.4 (3.4)	114In (311.7)	159.9 (100.0)	47Ti (159.0)
153.5 (<0.1)	158Gd (181.9)	156.4 (6.1)	188Re (63.6)	159.9 (0.4)	167Er (207.8)
153.5 (<0.1)	152Eu (89.8)	156.4 (<0.1)	152Eu (89.8)	159.9 (<0.1)	152Eu (89.8)
153.6 (<0.1)	152Eu (89.8)	156.4 (34.0)	238Np (5352.0)	159.9 (0.9)	80Br (37.1)
153.7 (1.0)	170Tm (204.5)	156.5 (<0.1)	166Ho (136.7)	159.9 (2.8)	182Ta (270.4)
153.7 (<0.1)	188Re (63.6)	158.5 (<0.1)	80Br (37.1)	159.1 (0.6)	142Pr (176.9)
153.7 (0.7)	152Eu (89.8)	158.5 (1.0)	198Au (214.8)	159.1 (<0.1)	152Eu (89.8)
153.7	169Yb	158.6 (<0.1)	200Hg (367.9)	159.1 (0.4)	167Er (207.8)
153.7 (2.9)	238Np (5352.0)	158.7 (<0.1)	152Eu (89.8)	159.1 (0.2)	235U (4155.1)
153.8 (8.0)	72Ga (145.1)	158.8 (<0.1)	110Ag (198.7)	159.2 (0.7)	153Eu (97.4)
153.8 (<0.1)	177Lu (150.4)	158.8 (<0.1)	152Eu (89.8)	159.2 (0.9)	198Au (214.8)
153.8 (<0.1)	150Sm (334.0)	158.9 (<0.1)	168Er (228.8)	159.2 (0.2)	77Se (238.9)
153.8 (<0.1)	152Eu (89.8)	158.9 (<0.1)	152Eu (89.8)	159.2 (1.8)	188Re (63.6)
153.8 (2.0)	249Cm (1408.3)	156.9	169Yb	159.2 (5.1)	249Cm (1408.3)
153.9 (0.6)	198Au (214.8)	157.0 (0.6)	116In (273.0)	159.2 (0.8)	233Th (3473.0)
153.9 (<0.1)	201Tl (139.9)	157.0 (0.7)	186Re (59.0)	159.3 (0.4)	167Er (207.8)
154.0 (<0.1)	152Eu (89.8)	157.0 (<0.1)	152Eu (89.8)	159.3 (<0.1)	152Eu (89.8)
154.0 (0.5)	198Au (214.8)	157.0 (<0.1)	110Ag (198.7)	159.3 (37.0)	64Cu (7916.0)
154.0 (6.4)	70Ga (508.4)	157.0 (0.1)	177Lu (150.4)	159.3 (<0.1)	200Hg (367.9)
154.0 (<0.1)	80Br (37.1)	157.1 (0.2)	154Eu (68.2)	159.3 (93.9)	105Ru (143.2)
154.0 (0.2)	163Dy (351.1)	157.1 (5.3)	104Rh (480.9)	159.3 (<0.1)	152Eu (89.8)
154.0	169Yb	157.1 (<0.1)	152Eu (89.8)	159.3 (0.4)	142Pr (176.9)
154.1 (3.4)	182Ta (270.4)	157.2 (3.7)	188Re (63.6)	159.3 (1.7)	140La (5097.9)
154.1 (<0.1)	152Eu (89.8)	157.3 (<0.1)	204Tl (139.9)	159.4 (<0.1)	152Eu (89.8)
154.1 (<0.1)	188Re (63.6)	157.3 (<0.1)	152Eu (89.8)	159.5	124Sb
154.2 (0.1)	164Dy (73.4)	157.3 (0.8)	166Ho (136.7)	159.5 (0.4)	176Lu (71.5)
154.2 (<0.1)	152Eu (89.8)	157.4 (2.2)	197Pt (5846.3)	159.5 (<0.1)	152Eu (89.8)
154.4 (<0.1)	177Lu (150.4)	157.4 (2.4)	187W (5261.8)	159.6 (1.4)	104Rh (180.9)
154.4 (<0.1)	152Eu (89.8)	157.5 (72.6)	101Mo (180.7)	159.6 (<0.1)	152Eu (89.8)
154.6 (<0.1)	114Cd (1660.3)	157.5 (<0.1)	110Ag (198.7)	159.6 (<0.1)	169Er (429.9)
154.7 (<0.1)	177Yb (151.6)	157.5 (0.7)	152Eu (89.8)	159.6 (<0.1)	96Mo (778.3)
154.7 (<0.1)	204Tl (139.9)	157.6 (0.5)	156Gd (89.0)	159.7 (<0.1)	152Eu (89.8)
154.7 (<0.1)	152Eu (89.8)	157.6 (<0.1)	152Eu (89.8)	159.8 (4.6)	249Cm (1408.3)
154.7 (4.0)	198Au (214.8)	157.8 (0.5)	154Eu (68.2)	159.8 (1.1)	80Br (37.1)
154.8 (<0.1)	152Eu (89.8)	157.8 (<0.1)	152Eu (89.8)	159.9 (<0.1)	152Eu (89.8)
154.9 (0.2)	158Gd (181.9)	157.8 (2.7)	136Ba (818.6)	159.9 (1.5)	116In (273.0)
154.9	210Bi	157.8 (17.8)	105Ru (143.2)	160.0 (<0.1)	152Eu (89.8)
155.0 (<0.1)	177Lu (150.4)	157.9 (<0.1)	152Eu (89.8)	160.0	169Yb
155.0 (100.0)	1880s (155.0)	158.0 (<0.1)	152Eu (89.8)	160.1 (1.1)	186Re (59.0)
155.0 (0.1)	152Eu (89.8)	158.1 (1.1)	114In (311.7)	160.1 (0.4)	152Eu (89.8)
155.1 (5.0)	76As (165.0)	158.1 (<0.1)	152Eu (89.8)	160.1 (<0.1)	68Zn (1077.4)
155.1 (0.2)	156Gd (89.0)	158.1 (0.2)	104Rh (180.9)	160.1 (2.2)	103Ru (174.0)
155.1 (0.2)	152Eu (89.8)	158.2 (<0.1)	152Eu (89.8)	160.1 (0.5)	193Os (5276.0)
155.2	124Sb	158.3 (0.4)	180Re (63.6)	160.1 (<0.1)	152Eu (89.8)
155.2 (<0.1)	152Eu (89.8)	158.3 (<0.1)	235U (4155.1)	160.2 (<0.1)	152Eu (89.8)
155.3 (7.0)	116In (273.0)	158.3 (20.6)	198Au (214.8)	160.2 (0.3)	163Dy (351.1)
155.3 (1.1)	151Nd (4487.8)	158.4 (<0.1)	177Lu (150.4)	160.2 (0.4)	154Eu (68.2)
155.3 (<0.1)	98Mo (787.4)	158.4 (26.8)	1850s (6588.0)	160.3 (<0.1)	80Br (37.1)
155.3 (<0.1)	152Eu (89.8)	158.4 (0.2)	152Eu (89.8)	160.3 (<0.1)	236U (642.2)
155.5 (<0.1)	152Eu (89.8)	158.5 (0.4)	176Lu (71.5)	160.3 (0.1)	152Eu (89.8)
155.5	108Ag	158.5 (<0.1)	152Eu (89.8)	160.4 (<0.1)	162Dy (185.0)
155.5 (8.1)	63Ni (6838.2)	158.5 (5.1)	249Cm (1408.3)	160.4 (0.1)	152Eu (89.8)
155.5 (<0.1)	152Eu (89.8)	158.6 (29.0)	60Co (229.8)	160.4 (<0.1)	177Lu (150.4)
155.6 (24.5)	140La (5097.9)	158.6 (6.2)	98Mo (787.4)	160.4 (0.8)	167Er (207.8)
155.7 (<0.1)	152Eu (89.8)	158.6 (0.2)	154Eu (68.2)	160.5 (<0.1)	200Hg (367.9)
155.8 (0.1)	202Hg (439.5)	158.6 (<0.1)	152Eu (89.8)	160.5 (<0.1)	152Eu (89.8)
155.8 (<0.1)	152Eu (89.8)	158.7 (0.5)	186Re (59.0)	160.6 (<0.1)	1850s (6588.0)
155.9 (0.1)	177Lu (150.4)	158.7 (0.3)	152Eu (89.8)	160.6 (0.1)	152Eu (89.8)
156.0 (0.4)	153Eu (97.4)	158.7 (0.2)	166Ho (136.7)	160.6 (0.1)	166Ho (136.7)
156.0 (1.0)	170Tm (204.5)	158.7 (0.7)	188Re (63.6)	160.6 (0.3)	176Lu (71.5)
156.0 (0.9)	188Re (63.6)	158.7 (0.5)	140La (5097.9)	160.6 (2.9)	238Np (5352.0)
156.1 (3.0)	153Eu (97.4)	158.7 (<0.1)	80Br (37.1)	160.6 (<0.1)	158Gd (181.9)
156.1 (11.0)	182Ta (270.4)	158.8 (<0.1)	152Eu (89.8)	160.7 (<0.1)	200Hg (367.9)
156.1 (0.6)	154Eu (68.2)	158.8 (0.1)	151Nd (4487.8)	160.7	179Hf
156.2 (0.3)	152Eu (89.8)	158.8 (<0.1)	177Lu (150.4)	160.7 (28.0)	194Ir (371.7)

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV (χ ly)	Nucleus (Strongest γ)	E γ keV (χ ly)	Nucleus (Strongest γ)	E γ keV (χ ly)	Nucleus (Strongest γ)
160.7 (0.1)	170Tm (204.5)	163.4 (0.2)	152Eu (89.8)	166.3 (<0.1)	176Lu (71.5)
160.7 (<0.1)	80Br (37.1)	163.5 (<0.1)	152Eu (89.8)	166.4 (<0.1)	152Eu (89.8)
160.7 (<0.1)	152Eu (89.8)	163.6 (<0.1)	151Sm (5288.0)	166.4	122Sb
160.7	128I	163.6 (<0.1)	188Re (63.6)	166.4 (<0.1)	168Er (6228.6)
160.9 (<0.1)	152Eu (89.8)	163.6 (<0.1)	177Lu (150.4)	166.5 (<0.1)	152Eu (89.8)
161.0	179Hf	163.7 (<0.1)	152Eu (89.8)	166.5 (0.3)	186Re (59.0)
161.0 (<0.1)	152Eu (89.8)	163.8 (0.9)	140La (5097.9)	166.6 (2.8)	153Eu (97.4)
161.1 (0.9)	188Re (63.6)	163.8 (<0.1)	152Eu (89.8)	166.6 (4.0)	151Nd (4487.8)
161.1 (0.1)	152Eu (89.8)	163.8 (1.1)	116In (273.0)	166.6 (11.8)	153Sm (127.3)
161.1 (0.5)	153Eu (97.4)	163.8 (<0.1)	80Br (37.1)	166.7 (1.9)	154Eu (68.2)
161.2 (<0.1)	152Eu (89.8)	163.9 (0.5)	154Eu (68.2)	166.7 (2.9)	110Ag (198.7)
161.3	94Nb	163.9 (0.3)	152Eu (89.8)	166.7 (0.4)	188Re (63.6)
161.3	179Hf	164.0 (<0.1)	68Zn (1077.4)	166.8 (0.7)	114In (311.7)
161.3 (0.3)	154Eu (68.2)	164.0 (<0.1)	136Ba (818.6)	166.8 (<0.1)	163Dy (351.1)
161.3 (<0.1)	152Eu (89.8)	164.0 (<0.1)	185Os (6588.0)	166.9 (0.5)	177Lu (150.4)
161.4 (0.2)	176Lu (71.5)	164.0 (0.1)	152Eu (89.8)	166.9 (0.8)	152Eu (89.8)
161.4 (1.3)	235U (4155.1)	164.1 (<0.1)	158Gd (181.9)	166.9 (<0.1)	110Ag (198.7)
161.4 (3.2)	249Cm (1408.3)	164.1 (<0.1)	177Lu (150.4)	166.9 (0.3)	198Au (214.8)
161.4 (<0.1)	177Lu (150.4)	164.1 (<0.1)	152Eu (89.8)	167.0 (<0.1)	152Eu (89.8)
161.5 (<0.1)	80Br (37.1)	164.1 (0.2)	176Lu (71.5)	167.0	169Yb
161.5 (<0.1)	152Eu (89.8)	164.1	128I	167.0 (<0.1)	152Eu (89.8)
161.6 (4.7)	104Rh (180.9)	164.2 (<0.1)	152Eu (89.8)	167.1 (0.3)	235U (4155.1)
161.7	169Yb	164.3 (<0.1)	110Ag (198.7)	167.1 (0.2)	153Sm (127.3)
161.7 (0.4)	186Re (59.0)	164.4 (<0.1)	152Eu (89.8)	167.2 (<0.1)	152Eu (89.8)
161.7 (<0.1)	152Eu (89.8)	164.5 (2.9)	186Re (59.0)	167.3 (0.7)	140La (5097.9)
161.7 (2.6)	170Tm (204.5)	164.5 (0.4)	154Eu (68.2)	167.3 (0.2)	156Gd (89.0)
161.8 (<0.1)	152Eu (89.8)	164.5 (0.6)	198Au (214.8)	167.3 (<0.1)	152Eu (89.8)
161.8 (46.3)	77Se (238.9)	164.5 (<0.1)	200Hg (367.9)	167.3 (9.2)	197Pt (5846.3)
161.8 (<0.1)	152Eu (89.8)	164.6 (<0.1)	152Eu (89.8)	167.3 (17.7)	188Re (63.6)
161.8 (<0.1)	150Sm (334.0)	164.6 (<0.1)	80Br (37.1)	167.3 (5.0)	163Dy (351.1)
161.9 (<0.1)	152Eu (89.8)	164.7 (<0.1)	200Hg (367.9)	167.4 (<0.1)	158Gd (181.9)
161.9 (<0.1)	188Re (63.6)	164.7 (0.4)	105Ru (143.2)	167.4 (<0.1)	152Eu (89.8)
161.9 (<0.1)	152Eu (89.8)	164.8	108Ag	167.4 (<0.1)	169Er (429.9)
161.9 (1.7)	110Ag (198.7)	164.8 (<0.1)	163Dy (351.1)	167.5 (0.7)	140La (5097.9)
162.0 (<0.1)	152Eu (89.8)	164.8 (<0.1)	152Eu (89.8)	167.5 (<0.1)	200Hg (367.9)
162.1 (0.5)	153Sm (127.3)	164.9 (1.1)	185W (4573.6)	167.5 (<0.1)	152Eu (89.8)
162.2	210Bi	164.9 (0.2)	152Eu (89.8)	167.6	124Sb
162.2 (<0.1)	152Eu (89.8)	165.0 (100.0)	76As (165.0)	167.6 (<0.1)	152Eu (89.8)
162.3 (4.3)	105Ru (143.2)	165.0	169Yb	167.6 (2.5)	249Cm (1408.3)
162.3 (0.2)	202Hg (439.5)	165.0 (1.8)	147Nd (314.7)	167.7 (<0.1)	152Eu (89.8)
162.3 (4.1)	249Cm (1408.3)	165.0 (0.1)	177Lu (150.4)	167.7 (3.7)	186Re (59.0)
162.4 (0.4)	188Re (63.6)	165.1 (<0.1)	152Eu (89.8)	167.8 (<0.1)	152Eu (89.8)
162.4 (<0.1)	110Ag (198.7)	165.1 (<0.1)	110Ag (198.7)	167.8 (<0.1)	151Sm (5288.0)
162.4 (72.1)	116In (273.0)	165.2 (<0.1)	134Cs (116.4)	167.8 (<0.1)	152Eu (89.8)
162.4 (<0.1)	152Eu (89.8)	165.2 (<0.1)	152Eu (89.8)	167.9 (0.7)	176Lu (71.5)
162.4 (<0.1)	200Hg (367.9)	165.2 (0.4)	1930s (5276.0)	167.9 (7.1)	147Nd (314.7)
162.5 (0.2)	166Ho (136.7)	165.2 (<0.1)	188Re (63.6)	167.9 (0.5)	177Lu (150.4)
162.5 (36.9)	177Lu (150.4)	165.3 (4.7)	104Rh (180.9)	167.9 (0.6)	188Re (63.6)
162.5 (<0.1)	76As (165.0)	165.4	175Yb	168.1 (<0.1)	162Dy (185.0)
162.5 (8.7)	187Os (427.1)	165.4 (<0.1)	152Eu (89.8)	168.2 (<0.1)	152Eu (89.8)
162.5 (<0.1)	152Eu (89.8)	165.4 (26.0)	194Ir (371.7)	168.2 (58.2)	198Au (214.8)
162.6 (0.9)	78Se (613.8)	165.4 (<0.1)	152Eu (89.8)	168.2 (<0.1)	163Dy (351.1)
162.6 (8.4)	194Ir (371.7)	165.6 (<0.1)	152Eu (89.8)	168.3 (2.4)	104Rh (180.9)
162.6 (<0.1)	152Eu (89.8)	165.7 (10.5)	86Rb (557.0)	168.3 (<0.1)	152Eu (89.8)
162.7 (61.2)	140La (5097.9)	165.7 (35.9)	170Tm (204.5)	168.4 (<0.1)	152Eu (89.8)
162.7 (0.2)	176Lu (71.5)	165.7 (0.1)	152Eu (89.8)	168.4 (<0.1)	151Sm (5288.0)
162.7 (<0.1)	152Eu (89.8)	165.8 (2.9)	249Cm (1408.3)	168.6 (6.4)	177Lu (150.4)
162.8 (<0.1)	151Sm (5288.0)	165.8 (<0.1)	152Eu (89.8)	168.7 (<0.1)	152Eu (89.8)
162.8 (<0.1)	152Eu (89.8)	165.9 (1.5)	140La (5097.9)	168.7 (0.1)	80Br (37.1)
162.9 (<0.1)	152Eu (89.8)	165.9 (<0.1)	177Lu (150.4)	168.8 (1.5)	152Eu (89.8)
163.0	175Yb	165.9 (<0.1)	152Eu (89.8)	168.8 (35.4)	164Dy (73.4)
163.0 (<0.1)	152Eu (89.8)	166.0 (0.4)	104Rh (180.9)	168.9 (<0.1)	152Eu (89.8)
163.1 (<0.1)	152Eu (89.8)	166.0 (<0.1)	152Eu (89.8)	169.0 (<0.1)	168Er (6228.8)
163.2 (4.0)	72Ga (145.1)	166.1 (<0.1)	163Dy (351.1)	169.0 (<0.1)	152Eu (89.8)
163.2 (0.3)	188Re (63.6)	166.1 (<0.1)	152Eu (89.8)	169.1 (<0.1)	204Tl (139.9)
163.2 (0.2)	153Sm (127.3)	166.1 (4.1)	198Au (214.8)	169.1 (0.9)	198Au (214.8)
163.2 (<0.1)	152Eu (89.8)	166.2 (<0.1)	80Br (37.1)	169.1 (<0.1)	152Eu (89.8)
163.3 (<0.1)	163Dy (351.1)	166.2 (0.1)	152Eu (89.8)	169.2 (3.9)	105Ru (143.2)
163.3 (0.2)	152Eu (89.8)	166.3 (<0.1)	194Ir (371.7)	169.2 (<0.1)	152Eu (89.8)
163.3 (0.8)	186Re (59.0)	166.3 (<0.1)	152Eu (89.8)	169.2 (0.4)	163Dy (351.1)

Table 1. CAPTURE γ 's - energy sorted (cont.)

E_{γ} Key ($\times 10^7$)	Nucleus (Strongest γ)	E_{γ} Key ($\times 10^7$)	Nucleus (Strongest γ)	E_{γ} Key ($\times 10^7$)	Nucleus (Strongest γ)
169.3 (<0.1)	152Eu (89.8)	171.8 (4.3)	170Tm (204.5)	174.7 (<0.1)	188Re (63.6)
169.4 (4.6)	140La (5087.9)	171.9 (11.4)	152Eu (89.8)	174.8 (<0.1)	152Eu (89.8)
169.4 (1.2)	152Eu (89.8)	172.0 (<0.1)	177Lu (150.4)	174.9 (9.1)	71Ge (499.8)
169.4 (14.4)	104Rh (180.9)	172.0 (0.1)	152Eu (89.8)	174.9 (<0.1)	152Eu (89.8)
169.4 (2.3)	186Re (59.0)	172.1 (1.1)	202Hg (439.5)	174.9 (<0.1)	146Nd (7110.8)
169.5 (0.5)	170Tm (204.5)	172.1 (2.5)	152Eu (89.8)	174.9 (0.3)	104Rh (180.9)
169.5 (0.8)	188Re (37.9)	172.1 (1.4)	194Tl (371.7)	175.0 (0.3)	152Eu (89.8)
169.5 (0.5)	176Lu (71.5)	172.2 (1.0)	104Rh (180.9)	175.0 (0.3)	152Eu (89.8)
169.5 (14.0)	194Tl (371.7)	172.2 (2.1)	175Yb (176.6)	175.1 (0.3)	230U (453.9)
169.5 (0.1)	152Eu (89.8)	172.3 (0.2)	188Re (63.6)	175.1 (2.5)	116In (273.0)
169.5 (<0.1)	177Lu (150.4)	172.3 (0.3)	152Eu (89.8)	175.1 (1.0)	80Br (37.1)
169.6 (<0.1)	152Eu (89.8)	172.4 (0.1)	186Re (59.0)	175.2 (<0.1)	152Eu (89.8)
169.6 (1.2)	176Lu (71.5)	172.4 (0.1)	153Eu (97.4)	175.2 (1.1)	188Au (214.8)
169.7 (<0.1)	152Eu (89.8)	172.4 (0.1)	163Dy (351.1)	175.3 (0.1)	154Eu (68.2)
169.8 (0.3)	188Re (63.6)	172.4 (<0.1)	152Eu (89.8)	175.3 (<0.1)	154Eu (68.2)
169.9 (<0.1)	158Au (214.8)	172.4 (0.2)	156Gd (89.0)	175.4 (0.1)	152Eu (89.8)
169.9 (2.0)	158Au (214.8)	172.5 (<0.1)	152Eu (89.8)	175.4 (<0.1)	152Eu (89.8)
169.9 (<0.1)	152Eu (89.8)	172.5 (0.1)	235U (4155.1)	175.4 (0.3)	152Eu (89.8)
169.9 (<0.1)	110Ag (198.7)	172.6 (0.4)	158Gd (181.9)	175.4 (10.3)	153Sm (127.3)
170.0 (<0.1)	152Eu (89.8)	172.6 (<0.1)	158Gd (181.9)	175.4 (0.4)	153Sm (127.3)
170.0 (18.4)	158Au (214.8)	172.7 (<0.1)	152Eu (89.8)	175.4 (16.3)	153Sm (127.3)
170.0 (2.0)	152Eu (89.8)	172.8 (<0.1)	152Eu (89.8)	175.4 (0.1)	152Eu (89.8)
170.2 (<0.1)	152Eu (89.8)	172.8 (0.1)	162Dy (185.0)	175.5 (0.1)	78Se (613.8)
170.2 (<0.1)	150Sm (334.0)	172.9 (<0.1)	153Eu (97.4)	175.5 (3.2)	191Os (5147.1)
170.2 (1.6)	153Eu (97.4)	172.9 (0.2)	153Eu (97.4)	175.5 (0.2)	152Eu (89.8)
170.3 (0.2)	152Eu (89.8)	173.0 (0.7)	98Mo (787.4)	175.6 (0.2)	60Co (229.9)
170.3 (4.5)	158Au (214.8)	173.0 (<0.1)	154Eu (68.2)	175.6 (<0.1)	110Ag (198.7)
170.3 (<0.1)	152Eu (89.8)	173.0 (0.2)	154Eu (68.2)	175.6 (<0.1)	152Eu (89.8)
170.3 (<0.1)	152Eu (89.8)	173.0 (0.9)	188Re (59.0)	175.6 (0.2)	152Eu (89.8)
170.3 (<0.1)	152Eu (89.8)	173.0 (<0.1)	153Eu (97.4)	175.6 (0.1)	152Eu (89.8)
170.3 (31.7)	114In (311.7)	173.0 (<0.1)	152Eu (89.8)	175.6 (0.1)	152Eu (89.8)
170.3 (0.2)	153Sm (127.3)	173.2 (0.1)	152Eu (89.8)	175.9 (<0.1)	152Eu (89.8)
170.3 (3.0)	153Sm (127.3)	173.2 (0.1)	182Tl (270.4)	176.0 (<0.1)	166Ho (136.7)
170.4 (<0.1)	152Eu (89.8)	173.2 (0.1)	104Rh (180.9)	176.0 (<0.1)	152Eu (89.8)
170.4 (0.5)	186Re (59.0)	173.2 (0.4)	152Eu (89.8)	176.1 (3.7)	68Zn (1077.4)
170.5 (<0.1)	152Eu (89.8)	173.3 (0.1)	198Au (214.8)	176.1 (0.1)	86Br (107.4)
170.5 (<0.1)	152Eu (89.8)	173.3 (2.1)	153Sm (127.3)	176.1 (7.2)	194Tl (371.7)
170.7 (<0.1)	152Eu (89.8)	173.4 (<0.1)	202Hg (439.5)	176.1 (3.2)	186Re (59.0)
170.8 (0.5)	188Re (63.6)	173.4 (1.3)	152Eu (89.8)	176.2 (<0.1)	152Eu (89.8)
170.9 (<0.1)	152Eu (89.8)	173.5 (<0.1)	152Eu (89.8)	176.3 (0.5)	104Rh (180.9)
170.9 (<0.1)	153Dy (351.1)	173.5 (0.1)	152Eu (89.8)	176.3 (0.1)	154Eu (68.2)
171.0 (0.5)	188Re (63.6)	173.5 (8.7)	185W (4573.6)	176.3 (0.3)	188Re (63.6)
171.1 (8.5)	116In (273.0)	173.6 (<0.1)	152Eu (89.8)	176.3 (0.1)	152Eu (89.8)
171.1 (0.4)	152Eu (89.8)	173.6 (0.1)	162Tl (6228.8)	176.4 (<0.1)	177Lu (150.4)
171.1 (<0.1)	68Zn (1077.4)	173.6 (<0.1)	152Eu (89.8)	176.4 (68.0)	134Cs (116.4)
171.1 (0.3)	60Co (229.9)	173.7 (<0.1)	152Eu (89.8)	176.4 (0.3)	104Rh (180.9)
171.1 (0.4)	166Re (59.0)	173.7 (0.1)	179Tl (179.8)	176.5 (<0.1)	152Eu (89.8)
171.2 (<0.1)	152Eu (89.8)	173.8 (<0.1)	151Nd (4487.8)	176.5 (2.9)	170Tm (204.5)
171.2 (<0.1)	80Br (37.1)	173.8 (0.1)	152Eu (89.8)	176.5 (1.1)	238Nd (5352.0)
171.2 (0.2)	188Re (63.6)	173.8 (0.5)	134Cs (116.4)	176.5 (0.2)	152Eu (89.8)
171.2 (0.2)	177Lu (150.4)	173.8 (<0.1)	124Sb (111.2)	176.6 (2.6)	186Re (59.0)
171.3 (<0.1)	158Gd (181.9)	173.9 (0.7)	184W (176.6)	176.6 (0.1)	80Br (37.1)
171.3 (0.3)	154Eu (68.2)	173.9 (<0.1)	152Eu (89.8)	176.6 (100.0)	174Yb (176.6)
171.5 (1.1)	153Sm (127.3)	174.0 (<0.1)	161In (273.0)	176.7 (<0.1)	152Eu (89.8)
171.5 (0.1)	163Dy (351.1)	174.0 (100.0)	152Eu (89.8)	176.7 (0.3)	160Tb (75.1)
171.5 (0.3)	235U (4155.1)	174.1 (4.9)	105Ru (143.2)	176.8 (<0.1)	116In (273.0)
171.6 (4.5)	249Cm (1408.3)	174.3 (10.0)	45Ca (74.3)	176.8 (0.1)	80Br (37.1)
171.6 (0.8)	187W (5261.8)	174.3 (7.7)	186Re (59.0)	176.9 (0.1)	152Eu (89.8)
171.7 (0.1)	166Ho (136.7)	174.3 (11.3)	134Cs (116.4)	176.9 (13.2)	152Eu (89.8)
171.7 (<0.1)	152Eu (89.8)	174.4 (<0.1)	152Eu (89.8)	177.0 (0.7)	134Cs (116.4)
171.7 (3.0)	182Ta (270.4)	174.4 (1.0)	104Rh (180.9)	177.0 (0.1)	162Dy (185.0)
171.7 (0.2)	182Ta (270.4)	174.4 (1.0)	104Rh (180.9)	177.1 (0.8)	188Re (63.6)
171.7 (0.2)	182Ta (270.4)	174.4 (1.0)	104Rh (180.9)	177.1 (1.3)	182Ta (270.4)
171.8 (0.4)	152Eu (89.8)	174.5 (<0.1)	152Eu (89.8)	177.2 (1.7)	152Eu (89.8)
171.8 (1.1)	60Co (229.9)	174.7 (<0.1)	152Eu (89.8)	177.2 (1.7)	188Re (63.6)
171.8 (<0.1)	204Tl (139.9)	174.7 (<0.1)	162Dy (185.0)	177.3 (16.4)	73Ge (574.7)

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Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)
177.3 (<0.1)	152Eu (89.8)	180.5 (<0.1)	152Eu (89.8)	182.8 (<0.1)	80Br (37.1)
177.4 (0.5)	184W (111.2)	180.6 (0.4)	188Re (63.6)	182.8 (1.4)	182Ta (270.4)
177.4	122Sb	180.6 (<0.1)	152Eu (89.8)	182.8 (39.2)	142Pr (176.9)
177.4 (<0.1)	152Eu (89.8)	180.6 (1.4)	77Se (238.9)	182.9 (100.0)	238Np (5352.0)
177.4	175Hf	180.7 (0.6)	154Eu (68.2)	182.9 (22.6)	153Sm (127.3)
177.4 (90.2)	187Os (427.1)	180.7 (100.0)	101Mo (180.7)	182.9 (<0.1)	152Eu (89.8)
177.4 (<0.1)	152Eu (89.8)	180.7 (<0.1)	152Eu (89.8)	183.0 (0.5)	176Lu (71.5)
177.4 (4.6)	163Dy (351.1)	180.8 (7.1)	198Au (214.8)	183.0 (<0.1)	152Eu (89.8)
177.5 (<0.1)	160Tb (75.1)	180.8 (9.6)	194Ir (371.7)	183.0 (0.3)	188Re (63.6)
177.5 (<0.1)	152Eu (89.8)	180.8 (42.2)	187Os (427.1)	183.1 (<0.1)	114In (311.7)
177.5 (0.7)	154Eu (68.2)	180.8 (1.1)	182Ta (270.4)	183.1 (0.2)	186Re (59.0)
177.6 (<0.1)	152Eu (89.8)	180.8	175Yb	183.1	210Bi
177.6 (<0.1)	185Os (6588.0)	180.8 (0.9)	140La (5097.9)	183.2 (<0.1)	143Nd (742.1)
177.7 (<0.1)	152Eu (89.8)	180.9 (100.0)	104Rh (180.9)	183.2 (0.1)	170Tm (204.5)
177.7 (0.7)	198Au (214.8)	180.9 (<0.1)	152Eu (89.8)	183.3 (<0.1)	152Eu (89.8)
177.7 (<0.1)	177Lu (150.4)	180.9 (0.4)	198Au (214.8)	183.3 (<0.1)	177Lu (150.4)
177.7 (<0.1)	110Ag (198.7)	181.0 (<0.1)	152Eu (89.8)	183.3 (<0.1)	163Dy (108.2)
177.7 (<0.1)	163Dy (351.1)	181.0 (<0.1)	152Eu (89.8)	183.3 (2.3)	199Au (493.5)
177.7 (<0.1)	152Eu (89.8)	181.0 (40.2)	170Tm (204.5)	183.4 (<0.1)	152Eu (89.8)
177.8 (1.5)	171Er (197.9)	181.0 (0.2)	152Eu (89.8)	183.5 (0.1)	177Lu (150.4)
177.8 (<0.1)	152Eu (89.8)	181.1 (4.6)	166Ho (136.7)	183.6 (<0.1)	152Eu (89.8)
177.8 (<0.1)	158Gd (181.9)	181.1 (<0.1)	152Eu (89.8)	183.7 (<0.1)	152Eu (89.8)
177.9 (9.6)	104Rh (180.9)	181.3 (<0.1)	110Ag (198.7)	183.8 (0.2)	154Eu (68.2)
177.9 (0.2)	176Lu (71.5)	181.3 (<0.1)	152Eu (89.8)	184.0 (<0.1)	152Eu (89.8)
177.9 (<0.1)	167Er (207.8)	181.4	179Hf	184.0 (0.2)	235U (4155.1)
178.0 (0.3)	134Cs (116.4)	181.4 (<0.1)	152Eu (89.8)	184.0 (0.1)	152Eu (89.8)
178.0 (<0.1)	152Eu (89.8)	181.5 (0.3)	176Lu (71.5)	184.0 (19.6)	72Ga (145.1)
178.1 (3.1)	188Re (63.6)	181.5 (0.2)	235U (4155.1)	184.0 (0.2)	134Cs (116.4)
178.1	108Ag	181.5	172Yb	184.1 (1.6)	176Lu (71.5)
178.2 (0.1)	152Eu (89.8)	181.6 (8.0)	72Ga (145.1)	184.1	124Sb
178.2 (0.2)	176Lu (71.5)	181.6 (<0.1)	152Eu (89.8)	184.2 (<0.1)	80Br (37.1)
178.2 (0.1)	152Eu (89.8)	181.6 (0.5)	188Re (63.6)	184.2 (<0.1)	185Os (6588.0)
178.2 (0.8)	153Eu (97.4)	181.6 (0.3)	80Br (37.1)	184.3 (<0.1)	188Re (63.6)
178.3 (<0.1)	152Eu (89.8)	181.6 (8.0)	87Kr (1475.9)	184.3 (29.4)	165Dy (108.2)
178.4 (0.2)	165Dy (108.2)	181.6 (1.3)	154Eu (68.2)	184.3 (0.2)	134Cs (116.4)
178.4 (<0.1)	152Eu (89.8)	181.6 (4.6)	185Os (6588.0)	184.3 (21.6)	168Er (6228.8)
178.5 (<0.1)	152Eu (89.8)	181.6 (<0.1)	152Eu (89.8)	184.3 (35.0)	184.3 (35.0)
178.6 (<0.1)	152Eu (89.8)	181.8 (<0.1)	152Eu (89.8)	184.3 (<0.1)	152Eu (89.8)
178.7 (3.3)	182Ta (270.4)	181.8 (5.3)	249Cm (1408.3)	184.5 (<0.1)	158Gd (181.9)
178.8 (1.2)	188Re (63.6)	181.8 (0.2)	153Sm (127.3)	184.6 (<0.1)	152Eu (89.8)
178.8 (15.8)	104Rh (180.9)	181.9 (<0.1)	152Eu (89.8)	184.6 (0.7)	34Cu (7916.0)
178.9 (<0.1)	177Lu (150.4)	181.9 (<0.1)	68Zn (1077.4)	184.7 (<0.1)	152Eu (89.8)
178.9 (<0.1)	152Eu (89.8)	181.9 (0.5)	176Lu (71.5)	184.8 (0.6)	153Sm (127.3)
178.9 (<0.1)	204Tl (139.9)	181.9 (100.0)	158Gd (181.9)	184.9 (<0.1)	152Eu (89.8)
178.9 (<0.1)	152Eu (89.8)	181.9 (4.4)	188Re (63.6)	184.9 (0.3)	154Eu (68.2)
179.0 (0.7)	134Cs (116.4)	182.0 (1.2)	190Os (186.7)	184.9 (0.3)	198Au (214.8)
179.0 (0.9)	166Ho (136.7)	182.0 (<0.1)	98Mo (787.4)	185.0 (<0.1)	152Eu (89.8)
179.2 (<0.1)	152Eu (89.8)	182.0 (<0.1)	152Eu (89.8)	185.0 (100.0)	162Dy (185.0)
179.3 (<0.1)	150Sm (334.0)	182.1 (0.2)	152Eu (89.8)	185.0 (1.5)	176Lu (71.5)
179.4	169Yb	182.1 (1.5)	249Cm (1408.3)	185.1 (<0.1)	110Ag (198.7)
179.4	175Yb	182.1 (0.3)	198Au (214.8)	185.1 (<0.1)	152Eu (89.8)
179.4 (2.1)	186Re (59.0)	182.2	124Sb	185.1	124Sb
179.5 (0.1)	152Eu (89.8)	182.2 (2.2)	186Re (59.0)	185.2 (<0.1)	152Eu (89.8)
179.6	124Sb	182.3 (<0.1)	152Eu (89.8)	185.3 (3.3)	162Dy (185.0)
179.7 (0.7)	154Eu (68.2)	182.4 (0.3)	134Cs (116.4)	185.3 (<0.1)	185Os (6588.0)
179.7 (0.2)	152Eu (89.8)	182.4 (0.1)	152Eu (89.8)	185.3 (<0.1)	152Eu (89.8)
179.8 (0.7)	80Br (37.1)	182.4 (0.2)	233Th (3473.0)	185.3 (2.1)	176Lu (71.5)
179.8 (0.5)	152Eu (89.8)	182.4 (6.7)	176Lu (71.5)	185.4 (<0.1)	152Eu (89.8)
179.9 (0.9)	166Ho (136.7)	182.4 (0.1)	152Eu (89.8)	185.5 (<0.1)	152Eu (89.8)
179.9 (0.2)	152Eu (89.8)	182.4 (0.2)	153Sm (127.3)	185.6 (<0.1)	152Eu (89.8)
180.1 (2.2)	134Cs (116.4)	182.5	175Yb	185.6 (22.1)	177Lu (150.4)
180.1 (<0.1)	177Lu (150.4)	182.5 (0.3)	153Sm (127.3)	185.6 (<0.1)	80Br (37.1)
180.1 (<0.1)	151Sm (5288.0)	182.5 (<0.1)	200Hg (367.9)	185.6 (0.8)	188Re (63.6)
180.2 (0.7)	198Au (214.8)	182.6 (<0.1)	152Eu (89.8)	185.7 (24.1)	199Au (493.5)
180.3 (<0.1)	152Eu (89.8)	182.6 (3.0)	154Eu (68.2)	185.7 (<0.1)	152Eu (89.8)
180.3 (<0.1)	76As (165.0)	182.7 (<0.1)	152Eu (89.8)	185.8 (0.5)	198Au (214.8)
180.3 (0.2)	153Sm (127.3)	182.7 (<0.1)	200Hg (367.9)	185.8 (0.1)	202Hg (439.5)
180.4 (<0.1)	178Hf (213.4)	182.7 (<0.1)	152Eu (89.8)	185.8 (0.9)	153Sm (127.3)
180.4 (<0.1)	152Eu (89.8)	182.8 (<0.1)	110Ag (198.7)	185.8 (0.9)	140La (5097.9)
180.5	128I	182.8 (0.1)	235U (4155.1)	185.9 (<0.1)	158Gd (181.9)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV (χ_{17})	Nucleus (Strongest γ)	E_{γ} keV (χ_{17})	Nucleus (Strongest γ)	E_{γ} keV (χ_{17})	Nucleus (Strongest γ)
185.9 (0.2)	184Dy (73.4)	188.4 (2.6)	185W (4573.6)	191.5 (0.8)	105Ru (143.2)
185.9 (0.1)	170Tm (204.5)	188.4 (<0.1)	152Eu (89.8)	191.6 (0.1)	80Br (37.1)
185.9 (<0.1)	200Hg (367.9)	188.5 (10.0)	56Mn (26.6)	191.6 (0.2)	188Re (63.6)
185.9 (100.0)	66Cu (185.9)	188.5 (<0.1)	152Eu (89.8)	191.6 (14.9)	199Au (493.5)
185.9 (<0.1)	132Eu (89.8)	188.6 (0.1)	170Tm (204.5)	191.7 (<0.1)	152Eu (89.8)
185.9	169Yb	188.6 (<0.1)	163Dy (351.1)	191.7 (0.2)	188Re (63.6)
186.0 (1.8)	142Pr (176.9)	188.7 (<0.1)	152Eu (89.8)	191.8 (0.4)	151Nd (4487.8)
186.0 (<0.1)	200Hg (367.9)	188.7 (<0.1)	162Dy (185.0)	191.8 (0.5)	154Eu (68.2)
186.0 (<0.1)	163Dy (351.1)	188.8 (<0.1)	152Eu (89.8)	191.9 (<0.1)	152Eu (89.8)
186.0 (0.5)	188Re (59.0)	188.8 (<0.1)	110Ag (198.7)	192.0 (39.0)	72Ga (145.1)
186.0 (6.7)	104Rh (180.9)	188.8 (11.8)	188Re (63.6)	192.0 (<0.1)	152Eu (89.8)
186.0 (0.6)	184W (111.2)	188.8 (<0.1)	158Gd (181.9)	192.2 (<0.1)	152Eu (89.8)
186.1 (<0.1)	152Eu (89.8)	188.8 (0.1)	170Tm (204.5)	192.2 (30.3)	176Lu (71.5)
186.1 (<0.1)	165Dy (108.2)	188.9 (<0.1)	152Eu (89.8)	192.2 (0.1)	177Lu (150.4)
186.1 (<0.1)	152Eu (89.8)	189.0 (<0.1)	156Gd (89.0)	192.3 (<0.1)	152Eu (89.8)
186.2	94Nb	189.0 (12.5)	151Nd (4487.8)	192.3 (41.8)	188Au (214.8)
186.2 (67.6)	116In (273.0)	189.1 (3.4)	238Np (5352.0)	192.3 (<0.1)	162Dy (185.0)
186.2 (<0.1)	152Eu (89.8)	189.1 (<0.1)	158Gd (181.9)	192.4 (0.1)	1930s (5276.0)
186.2 (0.4)	153Eu (97.4)	189.1 (0.2)	154Eu (68.2)	192.4 (0.1)	86Br (37.1)
186.2 (<0.1)	152Eu (89.8)	189.2 (<0.1)	152Eu (89.8)	192.4 (0.2)	152Eu (89.8)
186.3 (<0.1)	76As (165.0)	189.3 (6.0)	186Re (59.0)	192.5	179Hf
186.3 (<0.1)	152Eu (89.8)	189.3 (0.3)	188Re (63.6)	192.5 (<0.1)	188Re (63.6)
186.6 (1.0)	166Ho (136.7)	189.4 (<0.1)	152Eu (89.8)	192.6 (0.2)	152Eu (89.8)
186.6 (0.4)	152Eu (89.8)	189.5 (<0.1)	152Eu (89.8)	192.6 (0.3)	186Re (59.0)
186.7 (0.3)	186Re (59.0)	189.7 (<0.1)	152Eu (89.8)	192.6 (0.1)	170Tm (204.5)
186.7 (0.2)	188Re (63.6)	189.8 (<0.1)	152Eu (89.8)	192.7 (<0.1)	96Mo (778.3)
186.7 (100.0)	1900s (186.7)	189.8 (<0.1)	163Dy (351.1)	192.7 (0.4)	187W (5261.8)
186.7 (0.2)	152Eu (89.8)	189.8 (1.9)	134Cs (116.4)	192.7 (0.3)	114In (311.7)
186.8 (4.0)	147Nd (314.7)	189.9 (<0.1)	166Ho (136.7)	192.8	108Ag
186.8 (<0.1)	110Ag (198.7)	189.9 (<0.1)	152Eu (89.8)	192.8 (<0.1)	152Eu (89.8)
186.8 (<0.1)	200Hg (367.9)	190.0 (<0.1)	200Hg (367.9)	192.8 (19.9)	198Au (214.8)
186.8 (7.2)	134Cs (116.4)	190.0 (<0.1)	196Pt (356.1)	192.9 (0.7)	152Eu (89.8)
186.9 (0.4)	152Eu (89.8)	190.0 (1.3)	188Re (63.6)	192.9 (0.6)	154Eu (68.2)
187.0 (3.2)	176Lu (71.5)	190.0 (<0.1)	66Cu (185.9)	192.9 (<0.1)	152Eu (89.8)
187.0 (<0.1)	152Eu (89.8)	190.0 (0.1)	152Eu (89.8)	193.0 (0.6)	1930s (5276.0)
187.1 (0.2)	153Sm (127.3)	190.1 (0.4)	177Lu (150.4)	193.0 (<0.1)	158Gd (181.9)
187.1 (<0.1)	80Br (37.1)	190.1 (<0.1)	152Eu (89.8)	193.0 (1.7)	105Ru (143.2)
187.2 (<0.1)	152Eu (89.8)	190.2 (<0.1)	163Dy (351.1)	193.1 (24.5)	153Eu (97.4)
187.3 (0.3)	77Se (238.9)	190.2 (<0.1)	200Hg (367.9)	193.1 (0.4)	152Eu (89.8)
187.3 (<0.1)	152Eu (89.8)	190.3 (0.7)	134Cs (116.4)	193.1 (<0.1)	80Br (37.1)
187.4 (<0.1)	1870s (427.1)	190.3 (3.7)	114In (311.7)	193.1 (0.7)	166Ho (136.7)
187.5 (0.4)	177Lu (150.4)	190.3 (7.8)	182Ta (270.4)	193.1 (0.6)	182Ta (270.4)
187.5 (41.3)	70Ga (508.4)	190.3 (<0.1)	152Eu (89.8)	193.1 (<0.1)	152Eu (89.8)
187.5 (1.5)	154Eu (68.2)	190.3 (0.5)	154Eu (68.2)	193.2 (2.8)	249Cm (1408.3)
187.5 (<0.1)	152Eu (89.8)	190.4 (2.0)	188Re (63.6)	193.3 (<0.1)	158Gd (181.9)
187.6 (0.2)	178Hf (213.4)	190.4 (0.4)	152Eu (89.8)	193.3	179Hf
187.6 (<0.1)	152Eu (89.8)	190.5 (5.5)	147Nd (314.7)	193.3 (<0.1)	152Eu (89.8)
187.6 (<0.1)	80Br (37.1)	190.5 (0.3)	198Au (214.8)	193.3	175Yb
187.7 (<0.1)	110Ag (198.7)	190.5 (<0.1)	152Eu (89.8)	193.4 (5.5)	188Re (63.6)
187.7 (0.3)	152Eu (89.8)	190.6 (0.6)	80Br (37.1)	193.4 (<0.1)	177Lu (150.4)
187.8 (0.2)	186Re (59.0)	190.7 (<0.1)	152Eu (89.8)	193.4 (0.3)	116In (273.0)
187.8 (4.5)	142Pr (176.9)	190.7 (0.5)	186Re (59.0)	193.5 (<0.1)	150Sm (334.0)
187.8 (0.6)	188Re (63.6)	190.8 (<0.1)	152Eu (89.8)	193.5 (<0.1)	152Eu (89.8)
187.9 (<0.1)	152Eu (89.8)	190.8 (0.2)	188Re (63.6)	193.6 (<0.1)	168Er (6228.8)
188.0 (0.1)	80Br (37.1)	190.8 (<0.1)	152Eu (89.8)	193.6 (<0.1)	152Eu (89.8)
188.0 (<0.1)	204Tl (139.9)	190.9 (0.2)	198Au (214.8)	193.7 (0.7)	134Cs (116.4)
188.0 (<0.1)	152Eu (89.8)	190.9 (<0.1)	152Eu (89.8)	193.8 (4.1)	249Cm (1408.3)
188.1 (7.0)	198Au (214.8)	191.0 (<0.1)	73Ge (326.0)	193.8 (<0.1)	152Eu (89.8)
188.1 (6.7)	177Lu (150.4)	191.0 (<0.1)	156Gd (89.0)	193.8 (<0.1)	158Gd (181.9)
188.1 (<0.1)	76As (165.0)	191.0	81Se	193.8 (0.9)	153Sm (127.3)
188.1 (<0.1)	152Eu (89.8)	191.1 (2.1)	198Au (214.8)	193.9 (0.1)	152Eu (89.8)
188.1 (0.5)	153Sm (127.3)	191.1 (<0.1)	152Eu (89.8)	193.9 (<0.1)	168Er (6228.8)
188.2 (<0.1)	152Eu (89.8)	191.2 (0.3)	154Eu (68.2)	193.9 (<0.1)	30Br (37.1)
188.2 (<0.1)	110Ag (198.7)	191.2 (<0.1)	152Eu (89.8)	194.0 (0.7)	186Re (59.0)
188.2 (<0.1)	160Tb (75.1)	191.2	169Yb	194.0	122Sb
188.2 (2.3)	194Ir (371.7)	191.3 (0.8)	143Nd (742.1)	194.1 (<0.1)	152Eu (89.8)
188.2 (<0.1)	152Eu (89.8)	191.3 (<0.1)	152Eu (89.8)	194.2 (0.2)	176Lu (71.5)
188.3 (7.7)	176Lu (71.5)	191.4 (0.3)	75Se (286.6)	194.2 (0.4)	198Au (214.8)
188.3	124Sb	191.4 (0.6)	152Eu (89.8)	194.2 (<0.1)	80Br (37.1)
188.3 (<0.1)	152Eu (89.8)	191.5 (3.6)	177Lu (150.4)	194.2 (<0.1)	152Eu (89.8)

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E γ keV ($\% \gamma$)	Nucleus (Strongest γ)
194.3 (0.9)	153Sm (127.3)	196.9 (<0.1)	158Gd (181.9)	199.0 (0.4)	153Eu (97.4)
194.3 (1.1)	249Cm (1408.3)	196.9 (<0.1)	152Eu (89.8)	199.0 (0.5)	154Eu (68.2)
194.4 (<0.1)	152Eu (89.8)	197.0 (0.2)	186Re (59.0)	199.1 (<0.1)	177Lu (150.4)
194.4 (3.8)	191Os (5147.1)	197.0	175Hf	199.1 (<0.1)	152Eu (89.8)
194.4 (0.8)	66Cu (185.9)	197.0 (<0.1)	204Tl (139.9)	199.1 (0.9)	147Nd (314.7)
194.5 (<0.1)	152Eu (89.8)	197.0 (<0.1)	152Eu (89.8)	199.2 (<0.1)	162Dy (185.0)
194.5 (<0.1)	204Tl (139.9)	197.0	172Yb	199.2 (1.3)	152Eu (89.8)
194.5 (<0.1)	152Eu (89.8)	197.0 (0.5)	235U (4155.1)	199.2 (81.7)	156Gd (89.0)
194.5 (0.5)	166Ho (136.7)	197.1 (<0.1)	152Eu (89.8)	199.3 (0.2)	114In (311.7)
194.6 (0.2)	176Lu (71.5)	197.1 (0.1)	198Au (214.8)	199.4 (<0.1)	152Eu (89.8)
194.6 (<0.1)	110Ag (198.7)	197.1 (0.5)	154Eu (68.2)	199.5 (0.3)	104Rh (180.9)
194.6 (<0.1)	177Lu (150.4)	197.1 (0.1)	166Ho (136.7)	199.5 (0.1)	176Lu (71.5)
194.6 (21.2)	72Ga (145.1)	197.1 (<0.1)	152Eu (89.8)	199.5 (12.3)	188Re (63.6)
194.6 (<0.1)	152Eu (89.8)	197.2 (0.2)	188Re (63.6)	199.5 (<0.1)	152Eu (89.8)
194.7 (0.3)	153Sm (127.3)	197.2 (3.7)	176Lu (71.5)	199.5 (0.3)	193Os (5276.0)
194.7 (0.3)	114In (311.7)	197.2 (<0.1)	152Eu (89.8)	199.6 (0.1)	152Eu (89.8)
194.7 (1.1)	134Cs (116.4)	197.3 (0.3)	170Tm (204.5)	199.7 (1.3)	66Cu (185.9)
194.8 (<0.1)	152Eu (89.8)	197.3 (1.2)	166Ho (136.7)	199.7 (2.9)	166Ho (136.7)
194.8 (0.1)	80Br (37.1)	197.4 (<0.1)	158Gd (181.9)	199.7 (<0.1)	152Eu (89.8)
194.8 (<0.1)	152Eu (89.8)	197.4 (<0.1)	110Ag (198.7)	199.9 (0.9)	176Lu (71.5)
194.9 (<0.1)	158Gd (181.9)	197.4 (<0.1)	152Eu (89.8)	199.9 (<0.1)	152Eu (89.8)
194.9 (<0.1)	152Eu (89.8)	197.4 (2.8)	187W (5261.8)	199.9 (1.5)	154Eu (68.2)
195.0 (0.2)	153Sm (127.3)	197.5 (<0.1)	200Hg (367.9)	200.0 (<0.1)	152Eu (89.8)
195.0 (16.0)	194Ir (371.7)	197.5 (<0.1)	177Lu (150.4)	200.0 (<0.1)	196Pt (356.1)
195.0 (<0.1)	152Eu (89.8)	197.5 (<0.1)	152Eu (89.8)	200.0 (<0.1)	80Br (37.1)
195.1 (0.9)	154Eu (68.2)	197.5	169Yb	200.1 (<0.1)	152Eu (89.8)
195.1 (2.8)	182Ta (270.4)	197.5 (0.2)	188Re (63.6)	200.1 (<0.1)	158Gd (181.9)
195.2 (<0.1)	152Eu (89.8)	197.6 (0.3)	152Eu (89.8)	200.1 (<0.1)	152Eu (89.8)
195.4 (<0.1)	152Eu (89.8)	197.6 (<0.1)	110Ag (198.7)	200.2 (<0.1)	163Dy (351.1)
195.4 (0.1)	170Tm (204.5)	197.6 (<0.1)	152Eu (89.8)	200.3 (0.3)	104Rh (180.9)
195.4 (<0.1)	152Eu (89.8)	197.6 (0.9)	80Br (37.1)	200.3 (<0.1)	152Eu (89.8)
195.5 (<0.1)	158Gd (181.9)	197.7 (0.8)	186Re (59.0)	200.4 (11.8)	77Se (238.9)
195.5 (5.4)	110Ag (198.7)	197.7 (2.6)	190Os (186.7)	200.4 (<0.1)	152Eu (89.8)
195.5 (0.2)	152Eu (89.8)	197.7 (<0.1)	158Gd (181.9)	200.5 (3.5)	142Pr (176.9)
195.6 (4.0)	177Lu (150.4)	197.8 (0.2)	177Lu (150.4)	200.5 (0.2)	164Dy (73.4)
195.6 (0.3)	153Sm (127.3)	197.8 (1.1)	134Cs (116.4)	200.7 (0.2)	114In (311.7)
195.6 (<0.1)	152Eu (89.8)	197.8 (<0.1)	152Eu (89.8)	200.7 (<0.1)	152Eu (89.8)
195.6 (1.1)	77Ge (3895.2)	197.9 (1.4)	104Rh (180.9)	200.8 (<0.1)	185Os (6536.0)
195.6 (0.1)	98Mo (787.4)	197.9 (0.6)	78Se (613.8)	200.8 (3.3)	104Rh (180.9)
195.6 (23.6)	80Br (37.1)	197.9 (100.0)	171Er (197.9)	200.8 (<0.1)	152Eu (89.8)
195.6 (0.1)	193Os (5276.0)	197.9 (27.4)	72Ga (145.1)	200.8 (2.9)	134Cs (116.4)
195.7	124Sb	197.9 (0.6)	152Eu (89.8)	200.9 (<0.1)	158Gd (181.9)
195.7 (1.1)	235U (4155.1)	198.1 (0.4)	154Eu (68.2)	200.9 (<0.1)	177Yb (151.6)
195.7 (2.0)	154Eu (68.2)	198.1 (0.4)	184W (111.2)	200.9 (0.3)	198Au (214.8)
195.8 (<0.1)	152Eu (89.8)	198.1 (<0.1)	177Lu (150.4)	200.9 (<0.1)	152Eu (89.8)
195.8 (0.3)	153Sm (127.3)	198.1 (<0.1)	158Gd (181.9)	200.9 (0.5)	153Sm (127.3)
195.8 (0.2)	186Re (59.0)	198.2 (0.2)	202Hg (439.5)	201.0 (1.8)	186Re (59.0)
195.8 (<0.1)	152Eu (89.8)	198.2 (0.2)	153Sm (127.3)	201.0 (<0.1)	76As (165.0)
195.9 (3.0)	60Co (229.8)	198.2 (<0.1)	152Eu (89.8)	201.0 (<0.1)	152Eu (89.8)
196.0 (<0.1)	152Eu (89.8)	198.2 (14.4)	168Er (6228.8)	201.0 (0.3)	153Eu (97.4)
196.1 (0.4)	144Nd (696.5)	198.3 (24.9)	134Cs (116.4)	201.1 (<0.1)	152Eu (89.8)
196.1 (0.8)	151Nd (4487.8)	198.3 (<0.1)	152Eu (89.8)	201.1 (0.1)	170Tm (204.5)
196.1	175Yb	198.3	169Yb	201.1 (1.1)	154Eu (68.2)
196.2 (<0.1)	152Eu (89.8)	198.4 (<0.1)	152Eu (89.8)	201.1 (5.9)	193Os (5276.0)
196.3 (0.1)	176Lu (71.5)	198.4 (<0.1)	158Gd (181.9)	201.1 (0.1)	152Eu (89.8)
196.3 (0.1)	152Eu (89.8)	198.5 (8.0)	170Tm (204.5)	201.3 (<0.1)	152Eu (89.8)
196.4 (0.9)	188Re (63.6)	198.5 (<0.1)	152Eu (89.8)	201.4 (<0.1)	152Eu (89.8)
196.4 (0.2)	177Lu (150.4)	198.7 (100.0)	110Ag (198.7)	201.4 (43.3)	187W (5261.8)
196.4 (0.3)	152Eu (89.8)	198.7 (5.7)	194Ir (371.7)	201.4 (<0.1)	152Eu (89.8)
196.4 (4.3)	114In (311.7)	198.7 (<0.1)	76As (165.0)	201.5 (12.7)	176Lu (71.5)
196.5 (<0.1)	163Dy (351.1)	198.7 (<0.1)	152Eu (89.8)	201.5	122Sb
196.5 (<0.1)	152Eu (89.8)	198.8	169Yb	201.6 (<0.1)	152Eu (89.8)
196.5 (1.4)	104Rh (180.9)	198.8 (3.7)	86Rb (557.0)	201.6 (<0.1)	188Re (63.6)
196.6 (<0.1)	152Eu (89.8)	198.8 (<6.1)	152Eu (89.8)	201.6 (0.3)	233Th (3473.0)
196.7 (2.0)	116In (273.0)	198.8 (0.3)	104Rh (180.9)	201.7 (<0.1)	152Eu (89.8)
196.8 (1.4)	104Rh (180.9)	198.9 (0.1)	152Eu (89.8)	201.7 (<0.1)	110Ag (198.7)
196.8 (<0.1)	152Eu (89.8)	198.9 (<0.1)	158Gd (181.9)	201.7 (<0.1)	152Eu (89.8)
196.9 (3.2)	153Sm (127.3)	198.9 (0.1)	176Lu (71.5)	201.8 (0.3)	186Re (59.0)
196.9 (<0.1)	152Eu (89.8)	198.9 (1.1)	249Cm (1408.3)	201.8 (<0.1)	80Br (37.1)
196.9	124Sb	199.0 (<0.1)	152Eu (89.8)	201.8 (2.8)	103Ru (174.0)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_γ keV (χ^2_ν)	Nucleus (Strongest γ)	E_γ keV (χ^2_ν)	Nucleus (Strongest γ)	E_γ keV (χ^2_ν)	Nucleus (Strongest γ)
201.8 (0.3)	104Rh (180.9)	204.1 (0.1)	158Gd (181.9)	207.6 (0.2)	170Tm (204.5)
201.9 (<0.1)	152Eu (89.8)	204.2 (<0.1)	152Eu (89.8)	207.6 (<0.1)	152Eu (89.8)
201.9 (1.1)	198Au (214.8)	204.2 (<0.1)	188Os (155.0)	207.7 (1.5)	134Cs (116.4)
201.9 (<0.1)	200Hg (367.9)	204.2 (<0.1)	152Eu (89.8)	207.7 (0.2)	152Eu (89.8)
201.9 (3.7)	147Nd (314.7)	204.2 (<0.1)	151Sm (5288.0)	207.8 (5.0)	177Lu (170.4)
202.0 (1.0)	144Nd (696.5)	204.3 (<0.1)	152Eu (89.8)	207.8 (0.4)	152Eu (89.8)
202.0 (1.7)	152Eu (89.8)	204.3 (3.4)	194Ir (371.7)	207.8 (<0.1)	162Dy (185.0)
202.0 (<0.1)	188Re (63.6)	204.3 (24.4)	193Os (5276.0)	207.8 (0.2)	202Hg (439.5)
202.1 (2.4)	72Ga (145.1)	204.4 (1.1)	153Sm (127.3)	207.8 (100.0)	167Er (207.8)
202.1	179Hf	204.5 (100.0)	170Tm (204.5)	207.8 (0.1)	193Os (5276.0)
202.1 (3.7)	194Ir (371.7)	204.5 (<0.1)	152Eu (89.8)	207.8 (<0.1)	143Nd (742.1)
202.2 (0.8)	116In (273.0)	204.5 (<0.1)	200Hg (367.9)	207.8 (54.5)	188Re (63.6)
202.2 (0.6)	177Lu (150.4)	204.5	122Sb	207.9 (<0.1)	152Eu (89.8)
202.2 (<0.1)	152Eu (89.8)	204.5 (<0.1)	152Eu (89.8)	208.0 (8.1)	249Cm (1408.3)
202.4 (47.5)	90Y (776.7)	204.6 (<0.1)	80Br (37.1)	208.0 (<0.1)	152Eu (89.8)
202.4 (<0.1)	152Eu (89.8)	204.6 (<0.1)	152Eu (89.8)	208.1 (0.4)	1900s (186.7)
202.6 (5.0)	116In (273.0)	204.7 (0.5)	176Lu (71.5)	208.1 (0.4)	163Dy (351.1)
202.6 (0.5)	188Re (63.6)	204.8 (0.3)	154Eu (68.2)	208.2 (3.0)	187Os (427.1)
202.6 (0.9)	186Re (59.0)	204.8	175Yb	208.2 (<0.1)	152Eu (89.8)
202.7 (0.1)	152Eu (89.8)	204.8 (<0.1)	168Er (6228.8)	208.2 (0.4)	198Au (214.8)
202.7 (<0.1)	177Yb (151.6)	204.8 (19.4)	187W (5261.8)	208.3	172Yb
202.8 (0.3)	198Au (214.8)	204.8 (<0.1)	152Eu (89.8)	208.3 (<0.1)	152Eu (89.8)
202.8 (0.2)	153Sm (127.3)	205.0 (0.5)	186Re (59.0)	208.3 (0.2)	166Ho (136.7)
202.8 (<0.1)	98Mo (787.4)	205.0 (<0.1)	152Eu (89.8)	208.4 (<0.1)	152Eu (89.8)
202.8 (0.1)	152Eu (89.8)	205.2 (<0.1)	150Sm (334.0)	208.5 (1.2)	193Os (5276.0)
202.8 (7.2)	104Rh (180.9)	205.2 (<0.1)	152Eu (89.8)	208.5 (0.1)	152Eu (89.8)
202.9	128I	205.3 (<0.1)	177Lu (150.4)	208.5 (0.5)	154Eu (68.2)
202.9 (2.9)	198Au (214.8)	205.3 (<0.1)	152Eu (89.8)	208.6	175Yb
202.9 (0.5)	152Eu (89.8)	205.3 (5.2)	188Re (63.6)	208.7 (<0.1)	152Eu (89.8)
202.9	124Sb	205.4 (0.4)	156Gd (89.0)	208.7 (5.2)	194Ir (371.7)
202.9 (13.0)	64Cu (7916.0)	205.4 (<0.1)	152Eu (89.8)	208.8 (0.7)	152Eu (89.8)
203.0 (<0.1)	152Eu (89.8)	205.4 (<0.1)	80Br (37.1)	208.8 (1.5)	153Sm (127.3)
203.0 (<0.1)	200Hg (367.9)	205.4 (<0.1)	158Gd (181.9)	208.8 (11.8)	188Re (63.6)
203.1 (0.4)	193Os (5276.0)	205.5 (0.4)	154Eu (68.2)	208.9 (<0.1)	152Eu (89.8)
203.1 (0.9)	140La (5097.9)	205.5 (<0.1)	152Eu (89.8)	208.9 (4.9)	105Ru (143.2)
203.1 (0.3)	1900s (186.7)	205.5 (0.2)	176Lu (71.5)	208.9 (0.9)	116In (273.0)
203.1 (<0.1)	200Hg (367.9)	205.6 (37.2)	134Cs (116.4)	208.9 (<0.1)	158Gd (181.9)
203.2 (<0.1)	152Eu (89.8)	205.7 (0.5)	114In (311.7)	208.9 (0.1)	166Ho (136.7)
203.2	179Hf	205.7 (0.1)	162Dy (185.0)	209.0 (<0.1)	152Eu (89.8)
203.3 (0.6)	153Sm (127.3)	205.8 (<0.1)	177Lu (150.4)	209.0 (<0.1)	156Gd (181.9)
203.3 (0.1)	78Se (613.8)	205.8 (<0.1)	80Br (37.1)	209.0 (<0.1)	152Eu (89.8)
203.3 (0.2)	80Br (37.1)	205.8 (<0.1)	152Eu (89.8)	209.0 (<0.1)	151Sm (5288.0)
203.3 (0.1)	152Eu (89.8)	205.9 (0.3)	152Eu (89.8)	209.0 (0.1)	167Er (207.8)
203.4	172Yb	206.0 (<0.1)	176Lu (71.5)	209.1 (<0.1)	152Eu (89.8)
203.4 (0.1)	152Eu (89.8)	206.0 (<0.1)	188Re (63.6)	209.1 (5.2)	140La (5097.9)
203.4 (0.8)	176Lu (71.5)	206.1 (<0.1)	200Hg (367.9)	209.4 (<0.1)	150Sm (334.0)
203.5 (5.8)	235U (4155.1)	206.1 (<0.1)	96Mo (778.3)	209.4 (<0.1)	152Eu (89.8)
203.5 (0.1)	152Eu (89.8)	206.1 (2.6)	198Au (214.8)	209.4 (<0.1)	80Br (37.1)
203.5 (<0.1)	158Gd (181.9)	206.1 (0.6)	152Eu (89.8)	209.4 (<0.1)	158Gd (181.9)
203.5 (0.2)	152Eu (89.8)	206.2	108Ag	209.5 (<0.1)	152Eu (89.8)
203.5 (<0.1)	158Gd (181.9)	206.3 (<0.1)	152Eu (89.8)	209.5 (0.7)	154Eu (68.2)
203.6 (0.7)	184W (111.2)	206.4 (1.1)	152Eu (89.8)	209.5 (0.1)	170Tm (204.5)
203.7 (<0.1)	152Eu (89.8)	206.5 (0.9)	154Eu (68.2)	209.5 (0.2)	152Eu (89.8)
203.7	124Sb	206.6 (<0.1)	152Eu (89.8)	209.6 (1.8)	134Cs (116.4)
203.7 (<0.1)	177Yb (151.6)	206.7 (0.6)	188Re (63.6)	209.6 (1.5)	177Lu (150.4)
203.7 (4.6)	187Os (427.1)	206.7 (<0.1)	152Eu (89.8)	209.7 (<0.1)	152Eu (89.8)
203.7 (<0.1)	158Gd (181.9)	206.8 (1.1)	164Dy (73.4)	209.8 (2.5)	186Re (59.0)
203.7 (0.2)	152Eu (89.8)	206.8 (<0.1)	143Nd (742.1)	209.8 (0.2)	152Eu (89.8)
203.8 (0.5)	178Hf (213.4)	206.8 (<0.1)	152Eu (89.8)	210.0 (<0.1)	152Eu (89.8)
203.8 (<0.1)	96Mo (778.3)	206.9	124Sb	210.2 (19.5)	103Ru (174.0)
203.8 (1.1)	154Eu (68.2)	206.9 (0.2)	176Lu (71.5)	210.2 (<0.1)	152Eu (89.8)
203.8 (<0.1)	200Hg (367.9)	206.9 (<0.1)	152Eu (89.8)	210.3 (1.1)	166Ho (136.7)
203.9 (0.1)	177Lu (150.4)	207.0 (<0.1)	80Br (37.1)	210.3 (1.7)	154Eu (68.2)
204.0 (<0.1)	152Eu (89.8)	207.0 (0.2)	152Eu (89.8)	210.3 (3.6)	72Ca (145.1)
204.0 (0.3)	104Rh (180.9)	207.0 (0.1)	166Ho (136.7)	210.4 (0.2)	152Eu (89.8)
204.0 (7.1)	75Ge (574.7)	207.1 (<0.1)	152Eu (89.8)	210.4 (<0.1)	158Gd (181.9)
204.0 (1.1)	182Ta (270.4)	207.3 (0.1)	152Eu (89.8)	210.4 (0.2)	152Eu (89.8)
204.0 (7.0)	198Au (214.8)	207.4 (2.0)	154Eu (68.2)	210.5 (3.3)	182Ta (270.4)
204.0 (0.3)	178Hf (213.4)	207.4 (<0.1)	152Eu (89.8)	210.5 (0.5)	176Lu (71.5)
204.1 (0.2)	152Eu (89.8)	207.5 (0.3)	104Rh (180.9)	210.6 (21.6)	103Ru (174.0)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)
210.7 (25.4)	186Re (59.0)	213.4 (100.0)	178Hf (213.4)	216.5 (1.5)	116In (273.0)
210.7 (<0.1)	152Eu (89.8)	213.5 (<0.1)	152Eu (89.8)	216.5 (<0.1)	188Os (155.0)
210.9 (<0.1)	30Br (37.1)	213.6 (0.2)	152Eu (89.8)	216.5 (<0.1)	152Eu (89.8)
210.9 (1.4)	154Eu (68.2)	213.6 (1.8)	116In (273.0)	216.5 (1.4)	249Cm (1408.3)
211.0 (<0.1)	152Eu (89.8)	213.7 (9.1)	105Ru (143.2)	216.7 (6.1)	194Ir (371.7)
211.0 (<0.1)	158Gd (181.9)	213.8 (0.4)	80Br (37.1)	216.7 (<0.1)	204Tl (139.9)
211.1 (<0.1)	152Eu (89.8)	213.9 (<0.1)	152Eu (89.8)	216.7 (<0.1)	152Eu (89.8)
211.1 (4.2)	164Dy (73.4)	213.9 (0.5)	186Re (59.0)	216.8 (0.4)	154Eu (68.2)
211.2 (<0.1)	152Eu (89.8)	214.0 (1.0)	177Lu (150.4)	217.0 (6.0)	176Lu (71.5)
211.2 (<0.1)	76As (165.0)	214.0 (<0.1)	152Eu (89.8)	217.0 (0.5)	152Eu (89.8)
211.2	128I	214.0	124Sb	217.1 (2.5)	188Re (63.6)
211.2 (0.3)	153Sm (127.3)	214.0 (<0.1)	158Gd (181.9)	217.2 (<0.1)	152Eu (89.8)
211.3 (4.9)	134Cs (116.4)	214.1 (4.0)	176Lu (71.5)	217.4 (<0.1)	143Nd (742.1)
211.3 (<0.1)	152Eu (89.8)	214.1	179Hf	217.4 (0.8)	174Yb (176.6)
211.4 (<0.1)	168Er (6228.8)	214.1 (0.2)	188Re (63.6)	217.4 (<0.1)	152Eu (89.8)
211.5 (3.3)	188Re (63.6)	214.1 (<0.1)	152Eu (89.8)	217.4 (1.1)	168Er (6228.8)
211.5 (<0.1)	152Eu (89.8)	214.2 (2.2)	182Ta (270.4)	217.5 (<0.1)	152Eu (89.8)
211.6 (2.4)	80Br (37.1)	214.3 (<0.1)	152Eu (89.8)	217.6 (2.2)	238Np (5352.0)
211.6 (1.5)	75Se (286.6)	214.3 (<0.1)	110Ag (198.7)	217.7 (<0.1)	152Eu (89.8)
211.6 (0.5)	184W (111.2)	214.3 (<0.1)	152Eu (89.8)	217.7 (0.2)	158Gd (181.9)
211.7 (0.1)	55Cr (6246.4)	214.4 (<0.1)	200Hg (367.9)	217.8 (0.3)	60Co (229.8)
211.7 (0.1)	152Eu (89.8)	214.5 (<0.1)	152Eu (89.8)	217.9 (0.2)	116In (273.0)
211.7 (0.1)	77Se (238.9)	214.5 (<0.1)	160Tb (75.1)	217.9 (0.7)	186Re (59.0)
211.7 (0.2)	162Dy (185.0)	214.6 (0.3)	170Tm (204.5)	217.9 (30.6)	104Rh (180.9)
211.8 (<0.1)	152Eu (89.8)	214.6 (5.5)	147Nd (314.7)	217.9 (0.4)	198Au (214.8)
211.9 (0.6)	233Th (3473.0)	214.6	210Bi	218.0 (<0.1)	152Eu (89.8)
211.9 (0.5)	134Cs (116.4)	214.6 (0.6)	152Eu (89.8)	218.0 (0.9)	176Lu (71.5)
211.9 (<0.1)	152Eu (89.8)	214.6 (50.0)	186Re (59.0)	218.1 (<0.1)	152Eu (89.8)
212.0 (58.9)	56Mn (26.6)	214.7 (<0.1)	152Eu (89.8)	218.1 (0.7)	177Lu (150.4)
212.0	108Ag	214.7 (2.1)	198Au (214.8)	218.1 (<0.1)	152Eu (89.8)
212.1 (<0.1)	152Eu (89.8)	214.7 (0.3)	80Br (37.1)	218.2 (1.6)	105Ru (143.2)
212.1 (6.3)	163Dy (351.1)	214.8 (1.2)	154Eu (68.2)	218.2 (0.2)	60Co (229.8)
212.1 (0.3)	153Sm (127.3)	214.8 (<0.1)	152Eu (89.8)	218.2 (94.9)	140La (5097.9)
212.2 (0.4)	162Dy (185.0)	214.8 (100.0)	198Au (214.8)	218.2 (0.6)	158Gd (181.9)
212.2 (15.6)	72Ga (145.1)	215.0 (1.7)	249Cm (1408.3)	218.3 (<0.1)	165Dy (108.2)
212.2 (6.2)	194Ir (371.7)	215.0 (<0.1)	152Eu (89.8)	218.3 (0.3)	188Re (63.6)
212.2 (0.3)	114In (311.7)	215.0 (3.7)	140La (5097.9)	218.3 (<0.1)	152Eu (89.8)
212.2 (<0.1)	152Eu (89.8)	215.1 (16.5)	164Dy (73.4)	218.3 (7.5)	134Cs (116.4)
212.3 (0.4)	154Eu (68.2)	215.1 (4.9)	56Mn (26.6)	218.4 (0.1)	152Eu (89.8)
212.3 (0.1)	166Ho (136.7)	215.2 (2.0)	198Au (214.8)	218.4 (0.1)	188Os (155.0)
212.3 (0.4)	152Eu (89.8)	215.2 (0.2)	152Eu (89.8)	218.4 (0.2)	170Tm (204.5)
212.4 (2.2)	64Cu (7916.0)	215.3 (<0.1)	151Sm (5288.0)	218.5 (1.4)	104Rh (180.9)
212.4 (<0.1)	110Ag (198.7)	215.3 (0.8)	186Re (59.0)	218.5 (0.5)	235U (4155.1)
212.4 (<0.1)	152Eu (89.8)	215.3 (<0.1)	158Gd (181.9)	218.5 (0.7)	238Np (5352.0)
212.4 (0.4)	235U (4155.1)	215.3 (5.3)	184W (111.2)	218.5 (<0.1)	152Eu (89.8)
212.5 (0.4)	176Lu (71.5)	215.4 (<0.1)	152Eu (89.8)	218.6 (<0.1)	110Ag (198.7)
212.5 (<0.1)	152Eu (89.8)	215.4 (0.5)	198Au (214.8)	218.6 (<0.1)	160Tb (75.1)
212.5 (0.1)	170Tm (204.5)	215.5 (21.1)	104Rh (180.9)	218.6 (<0.1)	152Eu (89.8)
212.6 (<0.1)	152Eu (89.8)	215.5 (5.6)	238Np (5352.0)	218.7 (0.5)	186Re (59.0)
212.7 (0.2)	152Eu (89.8)	215.6 (0.1)	152Eu (89.8)	218.7 (1.4)	198Au (214.8)
212.7 (0.2)	78Se (613.8)	215.6 (<0.1)	200Hg (367.9)	218.7 (0.6)	72Ga (145.1)
212.8 (<0.1)	110Ag (198.7)	215.7 (<0.1)	152Eu (89.8)	218.7 (2.9)	249Cm (1408.3)
212.8 (<0.1)	158Gd (181.9)	215.7 (<0.1)	200Hg (367.9)	218.8 (<0.1)	152Eu (89.8)
212.8 (<0.1)	152Eu (89.8)	215.8 (<0.1)	152Eu (89.8)	218.8 (0.5)	198Au (214.8)
212.8 (2.3)	153Sm (127.3)	215.9 (<0.1)	152Eu (89.8)	218.8 (1.8)	80Br (37.1)
212.8 (1.0)	177Lu (150.4)	215.9 (0.7)	154Eu (68.2)	218.8 (0.2)	188Re (63.6)
212.9 (<0.1)	152Eu (89.8)	215.9 (<0.1)	158Gd (181.9)	218.8 (<0.1)	158Gd (181.9)
212.9 (1.1)	198Au (214.8)	216.0 (<0.1)	152Eu (89.8)	218.8 (<0.1)	152Eu (89.8)
213.0 (0.2)	158Gd (181.9)	216.0 (0.2)	176Lu (71.5)	218.9 (<0.1)	152Eu (89.8)
213.0 (1.8)	162Dy (185.0)	216.0 (<0.1)	80Br (37.1)	219.0 (<0.1)	96Mo (778.3)
213.1	124Sb	216.0 (3.3)	188Re (63.6)	219.0 (0.6)	187W (5261.8)
213.1 (7.2)	104Rh (180.9)	216.0 (10.3)	197Pt (5846.3)	219.0 (<0.1)	158Gd (181.9)
213.1 (<0.1)	152Eu (89.8)	216.1 (<0.1)	152Eu (89.8)	219.1 (0.6)	152Eu (89.8)
213.2 (<0.1)	152Eu (89.8)	216.1 (0.6)	153Eu (97.4)	219.2 (<0.1)	92Zr (934.5)
213.3 (0.1)	167Er (207.8)	216.2 (<0.1)	166Ho (136.7)	219.2 (2.2)	199Au (493.5)
213.3 (<0.1)	188Re (63.6)	216.2 (<0.1)	152Eu (89.8)	219.2 (0.3)	154Eu (68.2)
213.3 (0.7)	154Eu (68.2)	216.2 (0.1)	162Dy (185.0)	219.2 (4.7)	176Lu (71.5)
213.3 (<0.1)	152Eu (89.8)	216.3 (<0.1)	152Eu (89.8)	219.3 (5.2)	198Au (214.8)
213.4 (0.7)	174Yb (176.6)	216.4 (30.3)	46Sc (227.8)	219.3 (<0.1)	152Eu (89.8)
213.4 (0.7)	177Lu (150.4)	216.5 (<0.1)	152Eu (89.8)	219.4 (19.6)	80Br (37.1)

Table 1. CAPTURE γ 's - energy sorted (cont.)

$E\gamma$ keV ($\times 10^3$)	Nucleus (Strongest γ)	$E\gamma$ keV ($\times 10^3$)	Nucleus (Strongest γ)	$E\gamma$ keV ($\times 10^3$)	Nucleus (Strongest γ)
219.4 (7.8)	188Re (63.8)	222.7	169Yb	225.6 (<0.1)	152Eu (89.8)
219.5 (<0.1)	152Eu (89.8)	222.8 (<0.1)	152Eu (89.8)	225.7 (<0.1)	158Gd (181.9)
219.5 (<0.1)	158Gd (181.9)	222.8 (3.1)	1930s (5276.0)	225.7 (21.5)	105Ru (143.2)
219.6 (<0.1)	152Eu (89.8)	222.8 (<0.1)	165Dy (108.2)	225.7 (0.1)	152Eu (89.8)
219.6 (<0.1)	177Yb (151.6)	222.9 (1.0)	104Rh (180.9)	225.8 (<0.1)	76As (165.0)
219.7 (30.4)	170Tm (204.5)	223.0 (0.4)	198Au (214.8)	225.8 (5.7)	187Os (427.1)
219.8 (8.6)	134Cs (118.4)	223.0 (0.3)	188Re (63.6)	225.8 (<0.1)	152Eu (89.8)
219.8 (1.5)	186Re (59.0)	223.0 (<0.1)	152Eu (89.8)	225.8 (0.9)	199Au (493.5)
219.8 (0.3)	162Dy (185.0)	223.0 (4.2)	186Re (59.0)	225.9 (<0.1)	152Eu (89.8)
219.8 (<0.1)	152Eu (89.8)	223.0 (<0.1)	152Eu (89.8)	225.9 (<0.1)	200Hg (367.9)
220.0 (<0.1)	152Eu (89.8)	223.1	124Sb	225.9 (10.9)	187W (5261.8)
220.0 (1.9)	104Rh (180.9)	223.1 (0.3)	152Eu (89.8)	225.9	169Yb
220.0 (0.3)	80Br (37.1)	223.2 (<0.1)	143Nd (742.1)	225.9 (<0.1)	152Eu (89.8)
220.1 (0.6)	60Co (229.8)	223.2 (3.8)	153Sm (127.3)	225.9 (<0.1)	188Re (63.6)
220.2 (0.1)	152Eu (89.8)	223.2 (0.4)	154Eu (68.2)	225.9 (2.2)	249Cm (1408.3)
220.3 (0.2)	198Au (214.8)	223.2 (0.1)	80Br (37.1)	226.0 (1.5)	154Eu (68.2)
220.4 (<0.1)	110Ag (198.7)	223.2 (0.1)	152Eu (89.8)	226.1 (<0.1)	152Eu (89.8)
220.4 (0.2)	152Eu (89.8)	223.4 (<0.1)	110Ag (198.7)	226.2 (<0.1)	177Yb (151.6)
220.4 (0.3)	114In (311.7)	223.5 (<0.1)	152Eu (89.8)	226.2 (<0.1)	158Gd (181.9)
220.4 (0.3)	80Br (37.1)	223.5 (<0.1)	200Hg (367.9)	226.3 (<0.1)	152Eu (89.8)
220.5 (<0.1)	152Eu (89.8)	223.5 (<0.1)	150Sm (334.0)	226.3 (0.4)	198Au (214.8)
220.5 (<0.1)	76As (165.0)	223.5 (5.8)	153Eu (97.4)	226.4 (0.2)	152Eu (89.8)
220.5 (0.3)	186Re (59.0)	223.5 (0.2)	104Rh (180.9)	226.5 (<0.1)	158Gd (181.9)
220.5 (<0.1)	177Lu (150.4)	223.6 (<0.1)	152Eu (89.8)	226.5 (0.2)	80Br (37.1)
220.6 (<0.1)	158Gd (181.9)	223.6 (1.0)	188Re (63.6)	226.6 (<0.1)	158Gd (181.9)
220.6 (<0.1)	177Yb (151.6)	223.6 (8.1)	80Br (37.1)	226.6 (<0.1)	152Eu (89.8)
220.7 (0.3)	104Rh (180.9)	223.7 (<0.1)	75Ge (574.7)	226.7	124Sb
220.7 (0.1)	152Eu (89.8)	223.7 (<0.1)	152Eu (89.8)	226.7 (0.1)	114In (311.7)
220.8 (<0.1)	153Sm (127.3)	223.8 (1.0)	105Ru (143.2)	226.7 (36.2)	184W (111.2)
220.8 (0.1)	152Eu (89.8)	223.8 (1.9)	1900s (186.7)	226.7 (0.1)	152Eu (89.8)
220.9 (<0.1)	110Ag (198.7)	223.9 (<0.1)	152Eu (89.8)	226.9 (1.7)	205Pb (6731.5)
220.9 (<0.1)	152Eu (89.8)	223.9 (4.2)	86Rb (557.0)	226.9 (<0.1)	152Eu (89.8)
220.9 (<0.1)	1850s (6588.0)	223.9 (<0.1)	1850s (6588.0)	227.0 (37.1)	177Yb (151.6)
221.1 (<0.1)	152Eu (89.8)	223.9 (14.7)	1870s (427.1)	227.1 (27.3)	188Re (63.6)
221.2 (14.2)	166Ho (136.7)	223.9 (<0.1)	152Eu (89.8)	227.1 (<0.1)	104Rh (180.9)
221.2 (1.2)	185W (4573.6)	224.0 (<0.1)	158Gd (181.9)	227.2 (0.8)	151Nd (4487.8)
221.2 (5.0)	152Eu (89.8)	224.0 (<0.1)	152Eu (89.8)	227.2 (0.5)	178Hf (213.4)
221.3 (0.8)	142Pr (176.9)	224.0 (0.3)	60Co (229.8)	227.2 (0.2)	202Hg (439.5)
221.3 (5.1)	1870s (427.1)	224.1 (<0.1)	152Eu (89.8)	227.2 (1.3)	154Eu (68.2)
221.3 (<0.1)	152Eu (89.8)	224.1 (0.2)	177Lu (150.4)	227.3 (0.6)	152Eu (89.8)
221.4 (0.3)	188Re (63.6)	224.1	1281	227.3 (<0.1)	68Zn (1077.4)
221.4 (0.4)	176Lu (71.5)	224.2 (<0.1)	158Gd (181.9)	227.4 (1.2)	249Cm (1408.3)
221.4 (<0.1)	152Eu (89.8)	224.2 (<0.1)	194Ir (371.7)	227.5 (<0.1)	152Eu (89.8)
221.5 (0.2)	80Br (37.1)	224.2 (0.9)	198Au (214.8)	227.5 (2.5)	187W (5261.8)
221.6 (<0.1)	76As (165.0)	224.2 (5.6)	174Yb (176.6)	227.6 (<0.1)	152Eu (89.8)
221.6 (0.1)	177Lu (150.4)	224.3 (<0.1)	152Eu (89.8)	227.6 (3.7)	197Pt (5846.3)
221.6 (<0.1)	158Gd (181.9)	224.3 (<0.1)	104Rh (180.9)	227.6 (<0.1)	200Hg (367.9)
221.8 (<0.1)	152Eu (89.8)	224.5 (<0.1)	152Eu (89.8)	227.7 (0.2)	198Au (214.8)
221.8 (0.5)	186Re (59.0)	224.5 (0.3)	163Dy (351.1)	227.7 (<0.1)	152Eu (89.8)
221.8 (<0.1)	162Dy (185.0)	224.5	179Hf	227.7 (<0.1)	80Br (37.1)
221.8 (0.1)	168Er (6228.8)	224.6 (0.2)	188Re (63.6)	227.8 (100.0)	46Sc (227.8)
221.8 (<0.1)	152Eu (89.8)	224.6 (0.2)	152Eu (89.8)	227.9	169Yb
221.9 (0.2)	1930s (5276.0)	224.6 (<0.1)	162Dy (185.0)	227.9 (<0.1)	166Ho (136.7)
221.9 (0.1)	152Eu (89.8)	224.7 (<0.1)	92Zr (934.5)	228.0 (<0.1)	158Gd (181.9)
222.0 (0.7)	154Eu (68.2)	224.7 (0.2)	152Eu (89.8)	228.0 (11.7)	176Lu (71.5)
222.1 (<0.1)	152Eu (89.8)	224.8 (<0.1)	200Hg (367.9)	228.0 (<0.1)	194Ir (371.7)
222.1 (3.0)	176Lu (71.5)	224.8 (0.3)	152Eu (89.8)	228.1 (<0.1)	152Eu (89.8)
222.1 (3.0)	202Hg (439.5)	224.9 (0.3)	134Cs (116.4)	228.1 (<0.1)	163Dy (351.1)
222.2 (1.7)	182Ta (270.4)	225.0 (<0.1)	158Gd (181.9)	228.1 (<0.1)	158Gd (181.9)
222.2 (<0.1)	152Eu (89.8)	225.1 (0.5)	152Eu (89.8)	228.1 (0.5)	154Eu (68.2)
222.3 (1.7)	114In (311.7)	225.1 (0.2)	188Re (63.6)	228.1	122Sb
222.3 (<0.1)	158Gd (181.9)	225.2 (<0.1)	152Eu (89.8)	228.3 (0.3)	162Dy (185.0)
222.4 (<0.1)	152Eu (89.8)	225.3 (<0.1)	160Tb (75.1)	228.3	175Yb
222.4 (24.7)	1850s (6588.0)	225.3 (<0.1)	152Eu (89.8)	228.4 (<0.1)	152Eu (89.8)
222.5	179Hf	225.3 (<0.1)	150Sm (334.0)	228.4 (0.8)	186Re (59.0)
222.6 (0.2)	152Eu (89.8)	225.4 (32.0)	176Lu (71.5)	228.4 (<0.1)	152Eu (89.8)
222.6 (<0.1)	80Br (37.1)	225.4 (<0.1)	152Eu (89.8)	228.6 (<0.1)	152Eu (89.8)
222.6 (0.3)	116In (273.0)	225.5 (0.3)	116In (273.0)	228.6 (0.2)	51V (1609.3)
222.6 (<0.1)	152Eu (89.8)	225.5 (<0.1)	177Lu (150.4)	228.6 (0.5)	188Re (63.6)
222.7 (3.6)	153Sm (127.3)	225.6 (<0.1)	162Dy (185.0)	228.7 (0.3)	104Rh (180.9)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E_γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E_γ keV ($\% \gamma$)	Nucleus (Strongest γ)
228.7 (1.1)	177Lu (150.4)	231.8	124Sb	234.5 (4.9)	198Au (214.8)
228.7 (48.0)	46Sc (227.8)	231.8 (<0.1)	152Eu (89.8)	234.5 (<0.1)	152Eu (89.8)
228.8 (1.3)	182Ta (270.4)	231.8 (<0.1)	110Ag (198.7)	234.6 (2.1)	116In (273.0)
228.8 (<0.1)	152Eu (89.8)	231.9 (5.3)	170Tm (204.5)	234.8 (<0.1)	152Eu (89.8)
228.9 (8.2)	72Ga (145.1)	231.9 (<0.1)	78Se (613.8)	234.8 (0.7)	176Lu (71.5)
228.9 (<0.1)	204Tl (139.9)	231.9 (0.4)	188Re (63.6)	234.9 (0.4)	154Eu (68.2)
228.9 (<0.1)	152Eu (89.8)	231.9 (0.2)	152Eu (89.8)	234.9	169Yb
228.9 (<0.1)	110Ag (198.7)	232.0 (0.9)	166Ho (136.7)	234.9 (26.0)	184Ir (371.7)
228.9 (1.6)	249Cm (1408.3)	232.0 (<0.1)	158Gd (181.9)	234.9 (<0.1)	163Dy (351.1)
229.0 (<0.1)	163Dy (351.1)	232.0 (<0.1)	152Eu (89.8)	234.9 (0.5)	153Sm (127.3)
229.0 (0.2)	166Ho (136.7)	232.1 (4.4)	186Re (59.0)	235.0 (<0.1)	152Eu (89.8)
229.0 (0.5)	233Th (3473.0)	232.1 (1.0)	104Rh (180.9)	235.0 (29.2)	191Os (5147.1)
229.0 (0.5)	235U (4155.1)	232.1	122Sb	235.0 (0.1)	152Eu (89.8)
229.1 (<0.1)	152Eu (89.8)	232.2 (3.0)	134Cs (116.4)	235.1 (<0.1)	158Gd (181.9)
229.2 (<0.1)	158Gd (181.9)	232.3 (<0.1)	152Eu (89.8)	235.1 (<0.1)	152Eu (89.8)
229.2 (0.4)	152Eu (89.8)	232.4 (1.2)	188Re (63.6)	235.2 (0.1)	198Au (214.8)
229.3 (0.3)	154Eu (68.2)	232.4 (4.5)	238Np (5352.0)	235.2 (11.3)	170Tm (204.5)
229.3 (1.0)	249Cm (1408.3)	232.4 (1.1)	86Rb (557.0)	235.2 (<0.1)	152Eu (89.8)
229.4 (0.2)	153Sm (127.3)	232.4	175Yb	235.2	175Yb
229.4 (0.1)	152Eu (89.8)	232.5 (<0.1)	152Eu (89.8)	235.3 (9.4)	116In (273.0)
229.4 (<0.1)	168Er (6228.8)	232.5	108Ag	235.3 (<0.1)	152Eu (89.8)
229.5 (1.2)	105Ru (143.2)	232.6 (0.1)	176Lu (71.5)	235.3 (<0.1)	80Br (37.1)
229.6 (<0.1)	158Gd (181.9)	232.7 (<0.1)	152Eu (89.8)	235.4 (0.3)	158Gd (181.9)
229.6 (0.1)	177Lu (150.4)	232.8 (0.3)	80Br (37.1)	235.4 (<0.1)	152Eu (89.8)
229.6 (0.2)	188Re (63.6)	232.9	128I	235.5 (<0.1)	200Hg (367.9)
229.7 (<0.1)	110Ag (198.7)	232.9 (0.2)	114In (311.7)	235.6 (<0.1)	152Eu (89.8)
229.7	122Sb	232.9 (0.3)	154Eu (68.2)	235.7 (<0.1)	204Tl (139.9)
229.7 (2.5)	147Nd (314.7)	232.9 (0.2)	163Dy (351.1)	235.7 (56.8)	110Ag (198.7)
229.7 (<0.1)	152Eu (89.8)	232.9 (<0.1)	110Ag (198.7)	235.8 (13.3)	140La (5097.9)
229.8 (<0.1)	114Cd (1660.3)	232.9 (1.0)	152Eu (89.8)	235.8	128I
229.8 (<0.1)	152Eu (89.8)	233.1 (<0.1)	152Eu (89.8)	235.8 (<0.1)	165Dy (108.2)
229.8 (100.0)	60Co (229.8)	233.1	122Sb	235.8 (2.0)	104Rh (180.9)
229.8 (11.9)	191Os (5147.1)	233.1 (0.3)	162Dy (185.0)	235.9 (<0.1)	152Eu (89.8)
229.9 (2.1)	56Mn (26.6)	233.2 (<0.1)	152Eu (89.8)	235.9 (0.9)	188Re (63.6)
229.9 (<0.1)	158Gd (181.9)	233.2 (<0.1)	158Gd (181.9)	235.9 (4.3)	177Lu (150.4)
229.9 (<0.1)	96Mo (778.3)	233.3 (3.5)	197Pt (5846.3)	235.9 (<0.1)	76As (165.0)
229.9 (<0.1)	152Eu (89.8)	233.3 (1.0)	174Yb (176.6)	235.9 (<0.1)	96Mo (778.3)
230.1 (<0.1)	152Eu (89.8)	233.3 (0.3)	188Re (63.6)	235.9 (44.0)	198Au (214.8)
230.2 (0.3)	158Gd (181.9)	233.3 (0.3)	233Th (3473.0)	235.9 (<0.1)	152Eu (89.8)
230.2 (0.1)	80Br (37.1)	233.3 (0.1)	80Br (37.1)	235.9 (<0.1)	110Ag (198.7)
230.2 (0.2)	153Sm (127.3)	233.4 (0.2)	60Co (229.8)	236.0 (1.1)	154Eu (68.2)
230.3 (<0.1)	152Eu (89.8)	233.4 (<0.1)	152Eu (89.8)	236.0 (5.1)	238Np (5352.0)
230.3 (5.5)	57Fe (7631.6)	233.5 (0.3)	177Lu (150.4)	236.0 (<0.1)	152Eu (89.8)
230.3 (0.3)	116In (273.0)	233.6 (<0.1)	158Gd (181.9)	236.0 (3.1)	162Dy (185.0)
230.3 (<0.1)	152Eu (89.8)	233.6 (<0.1)	58Fe (810.5)	236.0 (3.4)	198Au (214.8)
230.6 (0.6)	187W (5261.8)	233.6 (5.1)	73Ge (326.0)	236.2 (<0.1)	158Gd (181.9)
230.6 (4.1)	249Cm (1408.3)	233.6 (0.1)	152Eu (89.8)	236.2 (<0.1)	152Eu (89.8)
230.6 (0.3)	186Re (59.0)	233.6 (1.5)	238Np (5352.0)	236.2 (1.3)	72Ga (145.1)
230.8 (0.2)	188Re (63.6)	233.7 (0.3)	104Rh (180.9)	236.3 (<0.1)	110Ag (198.7)
230.9 (<0.1)	152Eu (89.8)	233.7 (<0.1)	110Ag (198.7)	236.3 (0.2)	152Eu (89.8)
230.9 (0.1)	162Dy (185.0)	233.7 (0.1)	152Eu (89.8)	236.3 (0.7)	51V (1609.3)
231.0 (2.2)	72Ga (145.1)	233.7 (7.7)	176Lu (71.5)	236.5 (0.3)	104Rh (180.9)
231.1 (<0.1)	156Gd (89.0)	233.7 (2.5)	182Ta (270.4)	236.5 (2.2)	80Br (37.1)
231.1 (0.7)	170Tm (204.5)	233.8 (0.2)	152Eu (89.8)	236.5 (<0.1)	152Eu (89.8)
231.2 (<0.1)	152Eu (89.8)	233.9 (0.2)	193Os (5276.0)	236.6 (<0.1)	152Eu (89.8)
231.2 (1.3)	142Pr (176.9)	233.9 (0.4)	154Eu (68.2)	236.6 (20.9)	188Re (63.6)
231.3 (3.7)	77Se (238.9)	233.9 (<0.1)	152Eu (89.8)	236.8 (2.5)	249Cm (1408.3)
231.3 (<0.1)	152Eu (89.8)	234.0 (0.9)	198Au (214.8)	236.8 (<0.1)	152Eu (89.8)
231.5 (0.3)	182Ta (270.4)	234.0 (<0.1)	152Eu (89.8)	236.9 (<0.1)	158Gd (181.9)
231.5 (1.0)	114In (311.7)	234.1 (2.5)	104Rh (180.9)	236.9 (<0.1)	152Eu (89.8)
231.5 (<0.1)	152Eu (89.8)	234.1 (0.5)	60Co (229.8)	237.0 (16.2)	110Ag (198.7)
231.5	175Yb	234.1 (<0.1)	152Eu (89.8)	237.1 (<0.1)	152Eu (89.8)
231.6 (<0.1)	152Eu (89.8)	234.2 (0.5)	193Os (5276.0)	237.1 (1.3)	154Eu (68.2)
231.6 (0.3)	56Mn (26.6)	234.2 (<0.1)	110Ag (198.7)	237.2 (2.0)	104Rh (180.9)
231.6 (<0.1)	152Eu (89.8)	234.2 (<0.1)	152Eu (89.8)	237.3 (42.4)	170Tm (204.5)
231.7 (<0.1)	110Ag (198.7)	234.3 (<0.1)	177Yb (151.6)	237.3 (<0.1)	152Eu (89.8)
231.7 (0.1)	152Eu (89.8)	234.3 (10.7)	80Br (37.1)	237.3 (1.9)	182Ta (270.4)
231.7 (<0.1)	194Ir (371.7)	234.3 (24.4)	134Cs (116.4)	237.3 (<0.1)	110Ag (198.7)
231.7 (0.3)	154Eu (68.2)	234.4 (<0.1)	152Eu (89.8)	237.3 (0.5)	114In (311.7)
231.8 (<0.1)	110Ag (198.7)	234.4 (0.4)	188Re (63.6)	237.4 (<0.1)	158Gd (181.9)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\% \gamma$)	Nucleus (Strongest γ)	E_{γ} keV ($\% \gamma$)	Nucleus (Strongest γ)	E_{γ} keV ($\% \gamma$)	Nucleus (Strongest γ)
237.4 (<0.1)	152Eu (89.8)	240.6 (0.1)	177Lu (150.4)	243.5 (0.5)	80Br (37.1)
237.5 (2.1)	1930s (5276.0)	240.6 (0.2)	152Eu (89.8)	243.5 (0.6)	154Eu (68.2)
237.5 (0.2)	198Au (214.8)	240.6 (6.1)	249Cm (1408.3)	243.7 (0.1)	77Se (238.9)
237.5 (<0.1)	110Ag (198.7)	240.7 (0.7)	134Cs (116.4)	243.7 (0.8)	152Eu (89.8)
237.5 (<0.1)	152Eu (89.8)	240.7 (0.1)	152Eu (89.8)	243.8 (<0.1)	236U (642.2)
237.6 (85.0)	101Mo (180.7)	240.7 (1.6)	176Lu (71.5)	243.9 (27.0)	238Np (5352.0)
237.6 (<0.1)	152Eu (89.8)	240.8 (<0.1)	110Ag (198.7)	243.9 (0.5)	143Nd (742.1)
237.6 (0.7)	186Re (59.0)	240.8 (<0.1)	152Eu (89.8)	244.0 (<0.1)	152Eu (89.8)
237.7 (38.8)	140La (5097.9)	240.8 (4.8)	249Cm (1408.3)	244.0 (0.7)	185W (4573.6)
237.7 (9.6)	66Cu (185.9)	240.8 (0.2)	152Eu (89.8)	244.2	179Hf
237.8 (0.5)	152Eu (89.8)	240.9 (0.8)	153Sm (127.3)	244.2 (1.3)	178Hf (213.4)
237.8 (<0.1)	110Ag (198.7)	241.0 (<0.1)	47Ti (159.0)	244.2 (18.8)	80Br (37.1)
237.9 (1.2)	167Fr (207.8)	241.0 (0.4)	154Eu (68.2)	244.3 (<0.1)	152Eu (89.8)
237.9 (0.1)	152Eu (89.8)	241.1 (<0.1)	152Eu (89.8)	244.3 (2.6)	177Lu (150.4)
237.9 (0.8)	153Eu (97.4)	241.1 (0.2)	177Lu (150.4)	244.4 (1.0)	105Ru (143.2)
238.0 (<0.1)	152Eu (89.8)	241.1 (0.2)	1930s (5276.0)	244.4 (0.3)	114In (311.7)
238.1 (0.2)	80Br (37.1)	241.2 (<0.1)	152Eu (89.8)	244.4 (<0.1)	162Dy (185.0)
238.2 (0.6)	154Eu (68.2)	241.2 (0.9)	96Mo (778.3)	244.4 (<0.1)	152Eu (89.8)
238.2 (<0.1)	152Eu (89.8)	241.2 (0.8)	196Pt (356.1)	244.5	169Yb
238.3 (<0.1)	152Eu (89.8)	241.3 (<0.1)	158Gd (181.9)	244.5 (1.0)	142Pr (176.9)
238.4 (1.7)	188Re (63.6)	241.3 (0.1)	156Gd (89.0)	244.5 (0.5)	134Cs (116.4)
238.5 (<0.1)	162Dy (185.0)	241.3 (0.5)	188Re (63.6)	244.5 (1.0)	152Eu (89.8)
238.5 (0.1)	80Br (37.1)	241.3 (<0.1)	152Eu (89.8)	244.6 (0.5)	153Sm (127.3)
238.5 (0.1)	152Eu (89.8)	241.4 (<0.1)	200Hg (367.9)	244.7 (<0.1)	158Gd (181.9)
238.7 (4.7)	176Lu (71.5)	241.4 (10.0)	194Ir (371.7)	244.8 (5.5)	153Eu (97.4)
238.7 (<0.1)	152Eu (89.8)	241.4 (10.1)	1870s (427.1)	244.8 (1.5)	182Ta (270.4)
238.7 (0.1)	58Fe (810.5)	241.4 (<0.1)	200Hg (367.9)	244.9 (<0.1)	110Ag (198.7)
238.8 (<0.1)	152Eu (89.8)	241.4 (<0.1)	152Eu (89.8)	244.9 (0.2)	152Eu (89.8)
238.9 (<0.1)	152Eu (89.8)	241.4 (<0.1)	158Gd (181.9)	245.0	108Ag
238.9 (100.0)	77Se (238.9)	241.5 (0.4)	184W (111.2)	245.0 (<0.1)	152Eu (89.8)
238.9 (0.8)	147Nd (314.7)	241.5 (0.2)	198Au (214.8)	245.0 (3.8)	166Ho (136.7)
238.9 (0.7)	198Au (214.8)	241.5 (<0.1)	152Eu (89.8)	245.0 (3.0)	174Yb (176.6)
239.0 (<0.1)	152Eu (89.8)	241.6 (<0.1)	71Ge (499.8)	245.0 (<0.1)	163Dy (351.1)
239.0 (11.0)	194Ir (371.7)	241.6 (<0.1)	152Eu (89.8)	245.1 (<0.1)	152Eu (89.8)
239.0 (<0.1)	152Eu (89.8)	241.7 (14.7)	153Eu (97.4)	245.1 (0.4)	188Re (63.6)
239.1 (0.3)	114In (311.7)	241.9 (39.8)	55Cr (6246.4)	245.2 (39.9)	80Br (37.1)
239.1	179Hf	241.9 (0.3)	186Re (59.0)	245.2 (<0.1)	200Hg (367.9)
239.1 (15.3)	166Ho (136.7)	241.9 (<0.1)	152Eu (89.8)	245.2 (0.2)	152Eu (89.8)
239.2 (0.2)	98Mo (787.4)	241.9 (0.4)	188Re (63.6)	245.2 (1.2)	178Hf (213.4)
239.2 (0.1)	152Eu (89.8)	242.0 (1.4)	249Cm (1408.3)	245.3 (0.2)	152Eu (89.8)
239.3 (2.6)	154Eu (68.2)	242.1 (<0.1)	158Gd (181.9)	245.4 (<0.1)	68Zn (1077.4)
239.3 (0.2)	176Lu (71.5)	242.2 (<0.1)	152Eu (89.8)	245.4 (<0.1)	158Gd (181.9)
239.4 (0.1)	177Lu (150.4)	242.2 (0.9)	154Eu (68.2)	245.4 (<0.1)	152Eu (89.8)
239.4 (0.4)	152Eu (89.8)	242.2 (<0.1)	152Eu (89.8)	245.6 (1.0)	104Rh (180.9)
239.4 (<0.1)	96Mo (778.3)	242.2 (0.2)	153Sm (127.3)	245.6 (26.0)	194Ir (371.7)
239.5	169Yb	242.3 (0.1)	80Br (37.1)	245.6 (0.7)	80Br (37.1)
239.5 (<0.1)	152Eu (89.8)	242.3 (0.3)	176Lu (71.5)	245.6 (<0.1)	152Eu (89.8)
239.5 (2.1)	78Se (613.8)	242.3 (<0.1)	152Eu (89.8)	245.8 (0.2)	152Eu (89.8)
239.5 (1.3)	185W (4573.6)	242.4 (0.4)	56Mn (26.6)	245.9 (15.2)	134Cs (116.4)
239.5 (0.1)	198Au (214.8)	242.4 (1.0)	182Ta (270.4)	245.9 (1.0)	170Tm (204.5)
239.6 (0.2)	152Eu (89.8)	242.5 (2.3)	105Ru (143.2)	245.9 (<0.1)	76As (165.0)
239.7 (3.5)	1850s (6588.0)	242.5 (0.1)	104Rh (180.9)	245.9 (<0.1)	152Eu (89.8)
239.7 (4.0)	199Au (493.5)	242.6 (8.1)	1930s (5276.0)	246.1 (0.1)	152Eu (89.8)
239.9 (<0.1)	158Gd (181.9)	242.6 (12.2)	170Tm (204.5)	246.1 (0.7)	116In (273.0)
239.9 (<0.1)	152Eu (89.8)	242.6 (0.2)	198Au (214.8)	246.1 (3.1)	103Ru (174.0)
240.1 (<0.1)	152Eu (89.8)	242.6 (2.1)	153Eu (97.4)	246.1 (1.1)	1850s (6588.0)
240.1 (0.5)	80Br (37.1)	242.7 (0.2)	177Lu (150.4)	246.1 (8.3)	197Pt (5846.3)
240.1 (0.4)	174Yb (176.6)	242.8 (0.2)	152Eu (89.8)	246.2 (1.2)	182Ta (270.4)
240.2 (0.3)	176Lu (71.5)	242.8 (<0.1)	168Er (6228.8)	246.2 (0.3)	176Lu (71.5)
240.2 (0.3)	154Eu (68.2)	242.9 (<0.1)	152Eu (89.8)	246.2 (<0.1)	152Eu (89.8)
240.3 (3.0)	249Cm (1408.3)	243.0 (0.2)	152Eu (89.8)	246.3 (0.7)	188Re (63.6)
240.3 (0.5)	188Re (63.6)	243.1 (0.6)	153Sm (127.3)	246.3 (1.7)	105Ru (143.2)
240.3 (<0.1)	152Eu (89.8)	243.1 (<0.1)	58Fe (810.5)	246.3 (73.4)	199Au (493.5)
240.3 (0.8)	116In (273.0)	243.1	169Yb	246.3 (<0.1)	144Nd (696.5)
240.3 (<0.1)	158Gd (181.9)	243.2 (0.3)	116In (273.0)	246.4	124Sb
240.4 (5.3)	86Rb (557.0)	243.2 (<0.1)	152Eu (89.8)	246.5 (<0.1)	152Eu (89.8)
240.4 (<0.1)	152Eu (89.8)	243.2 (0.2)	198Au (214.8)	246.5 (0.3)	104Rh (180.9)
240.4 (0.3)	188Re (63.6)	243.3 (0.8)	114In (311.7)	246.7 (0.5)	152Eu (89.8)
240.5 (1.5)	249Cm (1408.3)	243.4 (<0.1)	200Hg (367.9)	246.8 (<0.1)	152Eu (89.8)
240.5 (20.0)	1910s (5147.1)	243.4 (<0.1)	152Eu (89.8)	246.8 (2.0)	72Ga (145.1)

Table 1. CAPTURE γ 's - energy sorted (cont.)

E_{γ} key ($\times 10^7$)	Nucleus (Strongest γ)	E_{γ} key ($\times 10^7$)	Nucleus (Strongest γ)	E_{γ} key ($\times 10^7$)	Nucleus (Strongest γ)
246.8 (0.8)	175Yb (59.0)	249.7 (0.2)	153Sm (127.3)	252.9 (0.5)	114In (311.7)
246.8 (0.4)	168Er (214.8)	249.8 (0.1)	152Eu (89.8)	253.0 (0.9)	152Eu (89.8)
247.0 (0.4)	168Er (214.8)	249.8 (1.4)	122Sb (180.9)	253.0 (0.1)	188Er (63.6)
247.1 (0.7)	153Sm (127.3)	250.1 (0.4)	170Tm (204.5)	253.1 (0.2)	154Eu (66.2)
247.1 (0.7)	153Sm (127.3)	250.1 (0.5)	172Yb (172.8)	253.2 (0.1)	94Nb (6228.8)
247.1 (0.6)	154Eu (89.8)	250.1 (8.5)	198Au (214.8)	253.3 (0.1)	160Tb (75.1)
247.1 (0.7)	186Er (63.6)	250.1 (0.1)	194Ir (371.7)	253.3 (5.2)	152Eu (89.8)
247.2 (1.7)	162Dy (185.0)	250.2 (0.3)	178Er (613.8)	253.4 (0.1)	110Ag (199.7)
247.2 (0.4)	176Lu (71.5)	250.2 (0.3)	202Tl (439.5)	253.5 (0.1)	152Eu (89.8)
247.2 (0.7)	152Eu (89.8)	250.2 (0.3)	154Sm (88.2)	253.5 (0.1)	204Tl (139.9)
247.3 (7.5)	71Ge (499.8)	250.3 (2.3)	238Pu (5352.0)	253.7 (0.4)	152Eu (89.8)
247.3 (0.1)	152Eu (89.8)	250.3 (0.1)	152Eu (89.8)	253.7 (0.1)	134Cs (116.4)
247.4 (0.1)	200Hg (367.9)	250.5 (0.1)	152Eu (89.8)	253.7 (69.9)	75Ge (574.7)
247.4 (0.1)	202Hg (439.5)	250.5 (28.4)	103Ru (174.0)	253.8 (0.4)	176Lu (71.5)
247.5 (3.4)	198Au (214.8)	250.8 (0.1)	152Eu (89.8)	253.8 (0.1)	158Gd (181.9)
247.5 (0.1)	152Eu (89.8)	250.8 (0.1)	152Eu (89.8)	254.0 (0.1)	200Hg (367.9)
247.5 (0.1)	163Dy (351.1)	250.8 (0.1)	200Hg (367.9)	254.0 (0.1)	80Br (37.1)
247.6 (0.3)	176Lu (71.5)	250.9 (4.1)	152Eu (89.8)	254.0 (6.0)	152Eu (89.8)
247.6 (0.2)	153Sm (127.3)	250.9 (0.1)	168Er (6228.8)	254.2 (0.1)	152Eu (89.8)
247.7 (0.1)	158Gd (181.9)	251.0 (0.1)	143Nd (742.1)	254.3 (0.1)	158Gd (181.9)
247.7 (0.2)	80Br (37.1)	251.1 (1.3)	182Ta (89.8)	254.4 (16.3)	60Co (329.8)
247.8 (0.7)	152Eu (89.8)	251.1 (0.1)	176Lu (71.5)	254.4 (0.1)	152Eu (89.8)
247.9 (0.7)	198Au (214.8)	251.2 (2.9)	188Er (63.6)	254.5 (0.1)	110Ag (199.7)
247.9 (2.2)	153Eu (97.4)	251.3 (0.1)	152Eu (89.8)	254.6 (0.1)	152Eu (89.8)
248.0 (5.1)	174Yb (176.6)	251.4 (0.9)	134Cs (116.4)	254.8 (1.1)	134Cs (116.4)
248.0 (0.7)	185W (4573.6)	251.4 (0.1)	158Gd (181.9)	254.8 (6.8)	153Sm (127.3)
248.1 (0.1)	160Tb (75.1)	251.4 (0.1)	152Eu (89.8)	254.8 (0.5)	152Eu (89.8)
248.1 (0.1)	152Eu (89.8)	251.5 (1.6)	142Pr (176.9)	255.0 (0.1)	152Eu (89.8)
248.2 (1.9)	170Tm (204.5)	251.6 (0.3)	150Sm (334.0)	255.0 (0.1)	194Ir (371.7)
248.2 (0.1)	156Gd (89.8)	251.6 (0.1)	128Bi (1851)	255.0 (2.4)	80Br (37.1)
248.4 (0.1)	152Eu (89.8)	251.6 (0.1)	185Os (6588.0)	255.1 (0.1)	140La (5097.9)
248.4 (0.2)	153Sm (127.3)	251.8 (0.1)	152Eu (89.8)	255.1 (0.4)	153Eu (97.4)
248.6 (0.1)	152Eu (89.8)	251.9 (0.1)	186Er (59.0)	255.1 (0.4)	174Yb (176.6)
248.6 (1.3)	150Lu (214.8)	252.0 (0.8)	152Eu (89.8)	255.2 (10.4)	187Os (4271.6)
248.7 (16.0)	194Ir (371.7)	252.0 (0.1)	200Hg (367.9)	255.3 (0.2)	104Rh (180.9)
248.7 (0.1)	188Er (63.6)	252.1 (32.5)	105Ru (143.2)	255.3 (0.1)	152Eu (89.8)
248.7 (0.3)	128Bi (1851)	252.1 (0.8)	154Er (66.2)	255.3 (0.2)	150Sm (334.0)
248.8 (0.7)	186Er (63.6)	252.1 (0.9)	149Tl (1381.5)	255.5 (0.2)	175Yb (175.6)
248.9 (0.7)	193Os (5276.0)	252.1 (0.7)	174Yb (176.6)	255.5 (0.2)	80Br (37.1)
248.9 (0.1)	152Eu (89.8)	252.2 (0.1)	152Eu (89.8)	255.7 (0.3)	152Eu (89.8)
248.9 (0.1)	152Eu (89.8)	252.2 (1.0)	194Ir (371.7)	255.7 (0.3)	163Dy (351.1)
249.0 (23.6)	72Ga (145.1)	252.2 (0.2)	172Lu (150.4)	255.7 (4.8)	158Gd (181.9)
249.0 (15.4)	147Nd (314.7)	252.2 (0.1)	152Eu (89.8)	255.7 (0.1)	152Eu (89.8)
249.1 (0.3)	153Sm (127.3)	252.2 (0.1)	110Ag (199.7)	255.7 (0.3)	76As (165.0)
249.2 (0.1)	152Eu (89.8)	252.3 (0.1)	158Er (181.9)	255.7 (0.3)	114In (311.7)
249.2 (0.4)	204Tl (139.9)	252.3 (0.1)	200Hg (367.9)	255.7 (0.3)	198Au (214.8)
249.2 (0.6)	162Dy (185.0)	252.4 (0.4)	145Tl (145.1)	255.8 (1.7)	200Hg (367.9)
249.3 (0.1)	154Eu (89.8)	252.5 (0.2)	176Lu (71.5)	255.8 (0.2)	147Tm (314.7)
249.3 (0.1)	200Hg (367.9)	252.5 (0.1)	152Eu (89.8)	255.8 (0.1)	152Eu (89.8)
249.3 (0.3)	152Eu (89.8)	252.6 (0.1)	58Fe (810.5)	255.9 (0.3)	94Nb (6228.8)
249.4 (0.3)	114In (311.7)	252.7 (0.1)	182Ta (270.4)	255.9 (0.3)	168Er (63.6)
249.4 (0.1)	152Eu (89.8)	252.7 (0.3)	152Eu (89.8)	256.0 (0.7)	152Eu (89.8)
249.5 (0.1)	110Ag (199.7)	252.8 (0.3)	116In (273.0)	256.0 (0.1)	178Ir (213.4)
249.5 (1.7)	151Nd (4487.8)	252.8 (0.3)	198Au (214.8)	256.1 (0.1)	110Ag (199.7)
249.6 (1.2)	153Eu (97.4)	252.8 (3.7)	187Os (427.1)	256.1 (0.5)	152Eu (89.8)
249.6 (0.4)	186Er (59.0)	252.8 (0.2)	124Sb (89.8)	256.2 (3.4)	233Th (3473.0)
249.7 (0.1)	233Th (3473.0)	252.9 (36.5)	184W (111.2)	256.2 (0.1)	172Lu (71.5)
249.7 (25.7)	77Se (238.9)	252.9 (0.1)	152Eu (89.8)	256.3 (0.1)	152Eu (89.8)

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV (χ 1 γ)	Nucleus (Strongest γ)	E γ keV (χ 1 γ)	Nucleus (Strongest γ)	E γ keV (χ 1 γ)	Nucleus (Strongest γ)
256.5 (1.0)	170Tm (204.5)	259.8 (1.6)	182Ta (270.4)	263.7 (0.3)	188Re (63.6)
256.5 (<0.1)	158Gd (181.9)	259.8 (<0.1)	110Ag (198.7)	263.7 (2.1)	175U (4155.1)
256.5 (0.8)	178Hf (213.4)	260.0 (<0.1)	110Ag (198.7)	263.7 (13.7)	176Lu (71.5)
256.6 (<0.1)	152Eu (89.8)	260.0 (<0.1)	152Eu (89.8)	263.8 (<0.1)	152Eu (89.8)
256.6 (<0.1)	80Br (37.1)	260.1 (20.0)	182Dy (351.1)	263.8 (1.7)	134Cs (116.4)
256.6 (4.7)	134Cs (116.4)	260.2 (<0.1)	188Re (63.6)	263.9 (<0.1)	158Gd (181.9)
256.7 (0.1)	124Sb (37.1)	260.2 (0.1)	233Th (37.1)	263.9 (<0.1)	152Eu (89.8)
256.7 (0.2)	176Lu (71.5)	260.2 (<0.1)	152Eu (89.8)	263.9 (0.3)	198Au (214.8)
256.7 (0.6)	198Au (214.8)	260.3 (4.5)	183Dy (351.1)	264.0 (0.1)	152Eu (89.8)
256.9 (<0.1)	152Eu (89.8)	260.4 (1.0)	170Tm (204.5)	264.0 (0.4)	170Tm (204.5)
256.9 (11.8)	188Re (63.6)	260.5 (19.6)	205Pb (6731.5)	264.1 (4.4)	72Ga (145.1)
257.0 (0.3)	114In (311.7)	260.5 (<0.1)	152Eu (89.8)	264.1 (0.7)	198Au (214.8)
257.0 (<0.1)	152Eu (89.8)	260.6 (0.5)	134Cs (116.4)	264.1 (1.0)	187W (5261.8)
257.1 (0.2)	162Dy (185.0)	260.7 (<0.1)	158Gd (181.9)	264.2 (<0.1)	152Eu (89.8)
257.2 (0.1)	152Eu (89.8)	260.7 (<0.1)	152Eu (89.8)	264.3 (0.2)	153Sm (127.3)
257.2 (1.6)	187W (5261.8)	260.7 (10.1)	198Au (214.8)	264.3 (0.1)	124Sb (37.1)
257.2 (0.4)	151Nd (4487.8)	260.8 (0.1)	176Lu (71.5)	264.4 (<0.1)	152Eu (89.8)
257.3 (0.4)	154Eu (68.2)	260.9 (2.3)	186Re (59.0)	264.4 (<0.1)	158Gd (181.9)
257.3 (<0.1)	158Gd (181.9)	261.0 (<0.1)	152Eu (89.8)	264.5 (19.5)	76As (165.0)
257.3 (0.1)	152Eu (89.8)	261.0 (<0.1)	158Gd (181.9)	264.6 (2.0)	177Lu (150.4)
257.3 (3.4)	72Ga (145.1)	261.0 (0.5)	104Rh (180.9)	264.6 (<0.1)	178Hf (213.4)
257.3 (0.3)	170Tm (204.5)	261.1 (<0.1)	152Eu (89.8)	264.7 (2.0)	147Nd (314.7)
257.4 (<0.1)	152Eu (89.8)	261.2 (<0.1)	153Sm (127.3)	264.7 (0.9)	238Np (5352.0)
257.4 (0.1)	176Lu (71.5)	261.2 (8.1)	134Cs (116.4)	264.7 (1.7)	176Lu (71.5)
257.4 (27.7)	186Re (59.0)	261.2 (<0.1)	152Eu (89.8)	264.7 (0.1)	172Yb (172.3)
257.5 (4.2)	103Ru (174.0)	261.3 (56.7)	198Au (214.8)	264.8 (0.2)	188Re (63.6)
257.6 (0.7)	92Zr (934.5)	261.3 (13.1)	186Re (59.0)	264.8 (0.1)	81Se (81.5)
257.7 (0.5)	153Sm (127.3)	261.3 (0.9)	114In (311.7)	264.8 (0.2)	152Eu (89.8)
257.7 (8.3)	249Cm (1408.3)	261.3 (<0.1)	152Eu (89.8)	264.9 (2.6)	64Cu (7916.0)
257.8 (0.3)	134Cs (116.4)	261.4 (0.3)	152Eu (89.8)	264.9 (<0.1)	160Tb (75.1)
257.8 (<0.1)	152Eu (89.8)	261.6 (3.3)	114In (311.7)	264.9 (39.0)	194Ir (371.7)
257.8 (0.1)	80Br (37.1)	261.6 (0.8)	153Sm (127.3)	264.9 (<0.1)	152Eu (89.8)
258.0 (0.6)	162Dy (185.0)	261.7 (3.5)	104Rh (180.9)	264.9 (0.1)	62Ni (1172.8)
258.0	179Hf (179.8)	261.7 (<0.1)	152Eu (89.8)	265.0 (<0.1)	152Eu (89.8)
258.1	124Sb (37.1)	261.8 (0.2)	153Sm (127.3)	265.1 (0.9)	153Sm (127.3)
258.2 (<0.1)	152Eu (89.8)	261.8 (0.4)	165Dy (108.2)	265.1 (0.7)	166Ho (136.7)
258.2 (46.1)	187Os (427.1)	261.8 (<0.1)	152Eu (89.8)	265.3 (<0.1)	152Eu (89.8)
258.3 (0.2)	198Au (214.8)	261.8 (0.3)	170Tm (204.5)	265.4 (<0.1)	152Eu (89.8)
258.3	169Yb (169.8)	262.0 (9.7)	194Ir (371.7)	265.6 (7.2)	185W (1573.6)
258.3 (<0.1)	233Th (3473.0)	262.1 (0.1)	152Eu (89.8)	265.6 (3.2)	235U (4155.1)
258.4 (<0.1)	236U (642.2)	262.2 (0.2)	80Br (37.1)	265.6 (29.0)	193Os (5276.0)
258.4 (0.2)	153Sm (127.3)	262.2 (1.2)	116In (273.0)	265.6 (0.1)	154Eu (68.2)
258.4 (<0.1)	152Eu (89.8)	262.3 (0.2)	153Sm (127.3)	265.6 (0.1)	152Eu (89.8)
258.5 (0.1)	163Dy (351.1)	262.4 (0.4)	198Au (214.8)	265.6	124Sb (37.1)
258.6 (0.2)	188Re (63.6)	262.4 (0.2)	163Dy (351.1)	265.7 (1.4)	104Rh (180.9)
258.6 (<0.1)	158Gd (181.9)	262.5 (<0.1)	152Eu (89.8)	265.7 (2.4)	249Cm (1408.3)
258.8 (0.3)	176Lu (71.5)	262.5 (0.7)	156Gd (89.0)	265.8 (0.6)	153Sm (127.3)
258.8 (<0.1)	152Eu (89.8)	262.6 (0.2)	198Au (214.8)	265.8 (<0.1)	152Eu (89.8)
258.8 (3.2)	140La (5097.9)	262.6 (4.9)	187Os (427.1)	265.9 (<0.1)	158Gd (181.9)
258.9 (<0.1)	152Eu (89.8)	262.7 (3.3)	176Lu (71.5)	266.0 (<0.1)	152Eu (89.8)
258.9 (1.5)	182Ta (270.4)	262.7 (<0.1)	152Eu (89.8)	266.0 (1.2)	186Re (59.0)
259.0	128I (128.1)	262.8 (1.1)	188Re (63.6)	266.1 (3.2)	110Ag (198.7)
259.0 (<0.1)	152Eu (89.8)	262.8 (6.6)	205Pb (6731.5)	266.1 (6.8)	72Ga (145.1)
259.0 (4.5)	98Mo (787.4)	262.9 (0.1)	152Eu (89.8)	266.1 (0.4)	198Au (214.8)
259.1 (0.1)	152Eu (89.8)	262.9 (0.2)	153Sm (127.3)	266.2 (1.0)	188Re (63.6)
259.1 (<0.1)	168Er (6228.8)	262.9 (<0.1)	158Gd (181.9)	266.2 (0.1)	77Se (238.9)
259.1 (2.4)	154Dy (73.4)	262.9 (0.2)	152Eu (89.8)	266.3 (0.1)	152Eu (89.8)
259.2	108Ag (108.8)	263.0 (0.2)	233Th (3473.0)	266.4 (<0.1)	152Eu (89.8)
259.2 (0.4)	198Au (214.8)	263.0 (<0.1)	152Eu (89.8)	266.5 (3.0)	198Au (214.8)
259.2 (<0.1)	96Mo (776.3)	263.1 (1.9)	154Eu (68.2)	266.5 (<0.1)	158Gd (181.9)
259.3 (2.2)	197Pt (5846.3)	263.1 (2.2)	163Dy (351.1)	266.5 (4.1)	163Dy (351.1)
259.3 (0.4)	198Au (214.8)	263.1 (<0.1)	177Lu (150.4)	266.6 (<0.1)	177Yb (151.6)
259.4	175Yb (175.8)	263.2 (0.4)	152Eu (89.8)	266.6 (<0.1)	152Eu (89.8)
259.4 (<0.1)	152Eu (89.8)	263.2 (0.3)	153Sm (127.3)	266.7 (0.2)	176Lu (71.5)
259.4 (10.7)	177Lu (150.4)	263.3 (<0.1)	152Eu (89.8)	266.7 (0.2)	134Cs (116.4)
259.4 (0.8)	186Re (59.0)	263.3 (1.9)	186Re (59.0)	266.7 (1.1)	186Re (59.0)
259.4 (4.1)	194Ir (371.7)	263.5 (0.5)	80Br (37.1)	266.7 (0.2)	152Eu (89.8)
259.6 (<0.1)	152Eu (89.8)	263.5 (<0.1)	152Eu (89.8)	266.8 (10.5)	104Rh (180.9)
259.8 (0.1)	151Nd (4487.8)	263.5 (0.2)	162Dy (185.0)	266.8 (1.0)	80Br (37.1)
259.8 (<0.1)	152Eu (89.8)	263.5 (0.1)	177Lu (150.4)	266.8 (<0.1)	96Mo (778.3)

Table 1. CAPTURE γ 's - energy sorted (cont.)

E γ keV (% γ)	Nucleus (Strongest γ)	E γ keV (% γ)	Nucleus (Strongest γ)	E γ keV (% γ)	Nucleus (Strongest γ)
266.8 (0.2)	152Eu (89.8)	270.2 (0.3)	177Lu (150.4)	273.2 (0.5)	143Nd (742.1)
266.8 (0.7)	188Re (63.6)	270.3 (0.4)	170Tm (204.5)	273.3 (<0.1)	152Eu (89.8)
266.9 (<0.1)	233Th (3473.0)	270.4 (28.6)	103Ru (174.0)	273.5 (0.4)	152Eu (89.8)
266.9 (0.5)	154Eu (68.2)	270.4 (100.0)	182Ta (270.4)	273.5 (3.8)	104Rh (180.9)
266.9 (1.6)	170Tm (204.5)	270.5 (<0.1)	165Dy (108.2)	273.6 (<0.1)	152Eu (89.8)
267.0 (<0.1)	152Eu (89.8)	270.5 (0.1)	198Au (214.8)	273.6 (0.7)	188Re (63.6)
267.0 (<0.1)	150Sm (334.0)	270.5 (<0.1)	152Eu (89.8)	273.8 (<0.1)	152Eu (89.8)
267.2 (6.7)	249Cm (1408.3)	270.5	124Sb	273.8 (<0.1)	110Ag (198.7)
267.2 (30.8)	110Ag (198.7)	270.5 (<0.1)	200Hg (367.9)	273.9 (0.5)	152Eu (89.8)
267.3 (<0.1)	156Gd (89.0)	270.6 (0.3)	154Eu (68.2)	273.9 (2.0)	72Ga (145.1)
267.3 (<0.1)	152Eu (89.8)	270.6 (<0.1)	152Eu (89.8)	273.9 (0.3)	154Eu (68.2)
267.3 (6.6)	114In (311.7)	270.7 (<0.1)	152Eu (89.8)	273.9 (0.2)	152Eu (89.8)
267.4 (0.2)	152Eu (89.8)	270.8 (0.7)	77Se (238.9)	274.0	124Sb
267.5 (0.3)	134Cs (116.4)	270.8 (1.2)	176Lu (71.5)	274.0	122Sb
267.5 (<0.1)	152Eu (89.8)	270.9 (0.4)	152Eu (89.8)	274.1 (27.1)	197Pt (5846.3)
267.5	175Yb	271.0 (1.3)	198Au (214.8)	274.1 (<0.1)	110Ag (198.7)
267.6 (0.2)	153Sm (127.3)	271.1 (0.4)	188Re (63.6)	274.2 (<0.1)	152Eu (89.8)
267.6 (0.2)	152Eu (89.8)	271.1 (2.2)	198Au (214.8)	274.3 (2.6)	56Mn (26.6)
267.6 (0.9)	198Au (214.8)	271.1 (0.1)	152Eu (89.8)	274.3 (11.8)	188Re (63.6)
267.7 (<0.1)	152Eu (89.8)	271.2 (31.7)	56Mn (26.6)	274.4 (<0.1)	152Eu (89.8)
267.7 (10.0)	194Ir (371.7)	271.3 (0.2)	152Eu (89.8)	274.4 (0.1)	134Cs (116.4)
267.7 (<0.1)	233Th (3473.0)	271.3 (1.0)	104Rh (180.9)	274.5 (<0.1)	152Eu (89.8)
267.7 (0.4)	154Eu (68.2)	271.4 (2.8)	134Cs (116.4)	274.5 (8.1)	80Br (37.1)
267.9 (<0.1)	152Eu (89.8)	271.4 (23.2)	80Br (37.1)	274.5 (<0.1)	152Eu (89.8)
268.0 (5.5)	163Dy (351.1)	271.4 (<0.1)	152Eu (89.8)	274.7 (1.8)	176Lu (71.5)
268.0 (1.2)	116In (273.0)	271.4 (0.2)	153Sm (127.3)	274.7 (0.1)	178Hf (213.4)
268.2 (<0.1)	200Hg (367.9)	271.4 (<0.1)	158Gd (181.9)	274.8 (0.9)	177Lu (150.4)
268.2 (3.9)	153Eu (97.4)	271.5 (2.1)	186Re (59.0)	274.8 (0.9)	182Ta (270.4)
268.3	128I	271.6 (0.1)	78Se (613.8)	275.0 (<0.1)	66Cu (185.9)
268.3 (1.5)	142Pr (176.9)	271.7 (<0.1)	200Hg (367.9)	275.0 (0.3)	134Cs (116.4)
268.4 (<0.1)	152Eu (89.8)	271.7 (<0.1)	152Eu (89.8)	275.0 (<0.1)	152Eu (89.8)
268.5 (<0.1)	200Hg (367.9)	271.7 (0.6)	165Dy (108.2)	275.2 (<0.1)	152Eu (89.8)
268.5 (<0.1)	150Sm (334.0)	271.7 (2.4)	198Au (214.8)	275.2 (0.3)	154Eu (68.2)
268.6 (1.6)	170Tm (204.5)	271.8 (25.0)	194Ir (371.7)	275.2 (0.6)	153Sm (127.3)
268.6 (1.9)	182Ta (270.4)	271.8 (3.1)	176Lu (71.5)	275.2 (0.7)	167Er (207.8)
268.7 (<0.1)	152Eu (89.8)	271.9 (0.2)	154Eu (68.2)	275.2 (<0.1)	110Ag (198.7)
268.8 (21.2)	177Lu (150.4)	272.0 (<0.1)	152Eu (89.8)	275.3	124Sb
268.8 (0.1)	152Eu (89.8)	272.0 (1.1)	249Cm (1408.3)	275.3 (28.0)	194Ir (371.7)
268.9 (1.7)	198Au (214.8)	272.1	169Yb	275.3 (0.4)	198Au (214.8)
269.0 (<0.1)	188Re (63.6)	272.1 (<0.1)	200Hg (367.9)	275.4 (3.7)	249Cm (1408.3)
269.0 (7.6)	110Ag (198.7)	272.2 (1.4)	134Cs (116.4)	275.4 (22.0)	191Os (5147.1)
269.0 (<0.1)	152Eu (89.8)	272.2 (<0.1)	152Eu (89.8)	275.4 (<0.1)	152Eu (89.8)
269.0 (4.3)	134Cs (116.4)	272.2	122Sb	275.5 (<0.1)	200Hg (367.9)
269.0 (7.2)	104Rh (180.9)	272.3 (0.8)	177Lu (150.4)	275.5 (0.2)	198Au (214.8)
269.1 (55.1)	197Pt (5846.3)	272.3 (65.3)	140La (5097.9)	275.5 (8.2)	188Re (63.6)
269.2 (0.1)	168Er (6228.8)	272.3 (<0.1)	152Eu (89.8)	275.5 (<0.1)	152Eu (89.8)
269.2 (12.0)	153Sm (127.3)	272.3 (<0.1)	188Re (63.6)	275.6 (0.3)	170Tm (204.5)
269.2 (0.1)	152Eu (89.8)	272.4 (0.4)	198Au (214.8)	275.6 (0.1)	162Dy (165.0)
269.3 (0.8)	170Tm (204.5)	272.5 (<0.1)	152Eu (89.8)	275.6 (<0.1)	165Dy (108.2)
269.4	124Sb	272.5 (0.4)	80Br (37.1)	275.7 (<0.1)	152Eu (89.8)
269.4 (<0.1)	178Hf (213.4)	272.5 (<0.1)	110Ag (198.7)	275.7 (<0.1)	160Tb (75.1)
269.4 (<0.1)	152Eu (89.8)	272.6 (<0.1)	152Eu (89.8)	275.8 (<0.1)	152Eu (89.8)
269.4 (0.4)	198Au (214.8)	272.6	172Yb	275.9 (0.2)	177Lu (150.4)
269.7 (6.3)	249Cm (1408.3)	272.7 (19.6)	105Ru (143.2)	275.9 (2.6)	198Au (214.8)
269.7 (<0.1)	233Th (3473.0)	272.7 (<0.1)	176Lu (71.5)	276.0 (1.3)	114In (311.7)
269.7	179Hf	272.8 (<0.1)	152Eu (89.8)	276.0 (0.4)	152Eu (89.8)
269.7 (<0.1)	162Dy (185.0)	272.8 (9.0)	185W (4573.6)	276.0 (0.2)	80Br (37.1)
269.8 (<0.1)	152Eu (89.8)	272.8 (47.9)	191Os (5147.1)	276.0 (<0.1)	158Gd (181.9)
269.8 (0.3)	186Re (59.0)	272.8 (<0.1)	158Gd (181.9)	276.1 (0.3)	152Eu (89.8)
269.8 (1.9)	147Nd (314.7)	272.8 (<0.1)	110Ag (198.7)	276.1 (15.4)	114In (311.7)
269.8	179Hf	272.8 (<0.1)	150Sm (334.0)	276.1 (48.7)	101Mo (180.7)
269.9 (<0.1)	152Eu (89.8)	272.8 (<0.1)	92Zr (934.5)	276.1 (0.3)	80Br (37.1)
269.9 (12.9)	103Ru (174.0)	272.9 (<0.1)	168Er (6228.8)	276.2 (<0.1)	204Tl (139.3)
269.9 (6.3)	249Cm (1408.3)	272.9 (50.1)	187W (5261.8)	276.2 (0.2)	154Eu (68.2)
270.0 (<0.1)	152Eu (89.8)	272.9 (<0.1)	152Eu (89.8)	276.2 (<0.1)	152Eu (69.8)
270.1 (0.3)	176Lu (71.5)	272.9 (13.4)	174Yb (176.6)	276.3 (0.1)	163Dy (351.1)
270.1 (0.3)	80Br (37.1)	273.0 (<0.1)	158Gd (181.9)	276.3	124Sb
270.2 (<0.1)	110Ag (198.7)	273.0 (100.0)	116In (273.0)	276.3 (<0.1)	156Gd (89.0)
270.2 (0.6)	154Eu (68.2)	273.0 (0.4)	152Eu (89.8)	276.3 (<0.1)	152Eu (89.8)
270.2 (<0.1)	152Eu (89.8)	273.1 (0.4)	198Au (214.8)	276.4 (0.2)	176Lu (71.5)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\chi_{1\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\chi_{1\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\chi_{1\gamma}$)	Nucleus (Strongest γ)
276.4 (2.8)	187W (5261.8)	278.9 (<0.1)	156Gd (89.0)	282.2 (<0.1)	152Eu (89.8)
276.6 (0.6)	193Os (5276.0)	279.0 (<0.1)	152Eu (89.8)	282.2 (0.2)	188Re (63.6)
276.7 (<0.1)	152Eu (89.8)	279.1 (0.4)	154Eu (68.2)	282.3 (0.2)	152Eu (89.8)
276.7 (24.5)	153Sm (127.3)	279.1 (10.4)	171Er (197.9)	282.5 (0.4)	152Eu (89.8)
276.8 (1.1)	182Ta (270.4)	279.1 (<0.1)	152Eu (89.8)	282.5 (0.8)	153Sm (127.3)
276.8 (<0.1)	110Ag (198.7)	279.2 (0.5)	77Se (238.9)	282.6 (0.2)	177Lu (150.4)
276.8 (0.7)	188Re (63.6)	279.2 (<0.1)	236U (642.2)	282.6 (<0.1)	177Yb (151.6)
276.9 (<0.1)	152Eu (89.8)	279.3 (0.3)	177Lu (150.4)	282.6 (0.2)	176Lu (71.5)
277.0 (0.1)	152Eu (89.8)	279.3 (<0.1)	158Gd (181.9)	282.6	122Sb
277.0 (0.1)	80Br (37.1)	279.3 (<0.1)	178Hf (213.4)	282.7 (0.3)	154Eu (68.2)
277.1 (<0.1)	110Ag (198.7)	279.4 (<0.1)	152Eu (89.8)	282.7 (1.1)	105Ru (143.2)
277.1 (3.0)	198Au (214.8)	279.4 (1.4)	60Co (229.8)	282.7 (0.4)	158Gd (181.9)
277.1 (57.1)	60Co (68.8)	279.5 (0.3)	96Mo (776.3)	282.7 (<0.1)	152Eu (89.8)
277.2 (<0.1)	152Eu (89.8)	279.5 (0.2)	176Lu (71.5)	282.8 (<0.1)	110Ag (198.7)
277.2 (0.3)	177Lu (150.4)	279.5 (0.3)	152Eu (89.8)	282.8 (0.5)	116In (273.0)
277.3 (<0.1)	152Eu (89.8)	279.6 (<0.1)	152Eu (89.8)	282.8 (<0.1)	152Eu (89.8)
277.5 (0.4)	154Eu (68.2)	279.7 (1.4)	134Cs (116.4)	282.9 (20.0)	162Dy (185.0)
277.5 (8.0)	164Dy (73.4)	279.7 (<0.1)	76As (165.0)	282.9 (1.4)	185Os (6588.0)
277.5 (0.6)	233Th (3473.0)	279.7	172Yb	282.9 (0.2)	190Os (186.7)
277.5 (6.2)	158Gd (181.9)	279.7 (0.1)	68Zn (1077.4)	283.0 (<0.1)	188Re (63.6)
277.6 (0.7)	167Er (207.8)	279.8 (0.1)	152Eu (89.8)	283.0 (<0.1)	96Mo (776.3)
277.6 (<0.1)	152Eu (89.8)	279.8 (0.1)	166Ho (136.7)	283.1 (0.3)	198Au (214.8)
277.6 (1.5)	134Cs (116.4)	279.9 (7.7)	140La (5097.9)	283.2 (<0.1)	152Eu (89.8)
277.7 (3.7)	176Lu (71.5)	280.0 (<0.1)	152Eu (89.8)	283.3 (0.2)	104Rh (180.9)
277.7 (0.6)	153Sm (127.3)	280.2 (0.2)	154Eu (68.2)	283.3 (0.4)	143Ce (4337.8)
277.7 (0.1)	152Eu (89.8)	280.2	175Yb	283.3 (<0.1)	160Tb (75.1)
277.8 (10.4)	187Os (427.1)	280.2 (<0.1)	151Sm (5288.0)	283.3 (<0.1)	152Eu (89.8)
277.8 (0.2)	158Gd (181.9)	280.3 (6.5)	105Ru (143.2)	283.5 (<0.1)	152Eu (89.8)
277.9 (<0.1)	124Te (602.4)	280.3 (<0.1)	152Eu (89.8)	283.5 (6.5)	71Ge (499.8)
277.9 (<0.1)	110Ag (198.7)	280.3 (<0.1)	188Re (63.6)	283.6 (<0.1)	61Ni (7819.6)
277.9 (0.2)	170Tm (204.5)	280.3	179Hf	283.6 (<0.1)	152Eu (89.8)
277.9	94Nb	280.4 (0.1)	152Eu (89.8)	283.6 (5.4)	140La (5097.9)
278.0 (0.7)	188Re (63.6)	280.4 (<0.1)	156Gd (89.0)	283.7 (<0.1)	188Re (63.6)
278.0 (0.4)	198Au (214.8)	280.5 (<0.1)	152Eu (89.8)	283.7 (0.1)	80Br (37.1)
278.0 (0.4)	167Er (207.8)	280.6 (<0.1)	158Gd (181.9)	283.7 (<0.1)	68Zn (1077.4)
278.1 (0.2)	58Fe (810.5)	280.7 (2.9)	46Sc (227.8)	283.7 (<0.1)	110Ag (198.7)
278.1 (0.6)	154Eu (68.2)	280.7 (<0.1)	152Eu (89.8)	283.7 (0.1)	152Eu (89.8)
278.1 (<0.1)	160Tb (75.1)	280.8 (<0.1)	188Re (63.6)	283.8 (0.4)	198Au (214.8)
278.1 (<0.1)	152Eu (89.8)	280.8 (4.6)	249Cm (1408.3)	283.8 (0.2)	152Eu (89.8)
278.1 (2.5)	199Au (493.5)	280.8 (<0.1)	158Gd (181.9)	283.9 (<0.1)	200Hg (367.9)
278.2 (<0.1)	200Hg (367.9)	280.8 (<0.1)	152Eu (89.8)	283.9 (<0.1)	152Eu (89.8)
278.2 (2.9)	153Sm (127.3)	280.8 (0.1)	80Br (37.1)	283.9 (1.7)	198Au (214.8)
278.2 (0.4)	233Th (3473.0)	280.9 (<0.1)	152Eu (89.8)	284.0 (<0.1)	158Gd (181.9)
278.2 (0.6)	80Br (37.1)	281.0 (<0.1)	162Dy (185.0)	284.0 (0.1)	152Eu (89.8)
278.2 (<0.1)	158Gd (181.9)	281.0 (0.9)	105Ru (143.2)	284.1 (0.8)	182Ta (270.4)
278.2 (1.6)	249Cm (1408.3)	281.0 (<0.1)	152Eu (89.8)	284.2 (0.2)	177Lu (150.4)
278.2 (<0.1)	152Eu (89.8)	281.1 (41.6)	101Mo (180.7)	284.2 (0.2)	154Eu (68.2)
278.2 (70.4)	64Cu (7916.0)	281.1 (<0.1)	200Hg (367.9)	284.3 (<0.1)	152Eu (89.8)
278.3 (<0.1)	200Hg (367.9)	281.1 (0.4)	104Rh (180.9)	284.3 (<0.1)	158Gd (181.9)
278.3 (3.7)	185Os (6588.0)	281.1 (<0.1)	188Re (63.6)	284.4 (1.4)	163Dy (351.1)
278.4 (1.5)	140La (5097.9)	281.1 (0.1)	198Au (214.8)	284.4 (1.6)	86Rb (557.0)
278.4 (1.8)	142Pr (176.9)	281.1 (<0.1)	152Eu (89.8)	284.4 (4.8)	194Ir (371.7)
278.4 (<0.1)	188Re (63.6)	281.2 (<0.1)	152Eu (89.8)	284.4 (0.2)	153Sm (127.3)
278.4 (92.0)	194Ir (371.7)	281.3 (0.5)	233Th (3473.0)	284.4 (0.2)	152Eu (89.8)
278.5 (0.3)	162Dy (185.0)	281.4 (6.8)	193Os (5276.0)	284.5 (0.1)	162Dy (185.0)
278.5 (0.4)	104Rh (180.9)	281.5 (0.2)	152Eu (89.8)	284.5 (<0.1)	152Eu (89.8)
278.5	179Hf	281.5 (0.1)	177Lu (150.4)	284.6 (3.3)	188Re (63.6)
278.5 (<0.1)	168Er (6228.8)	281.6 (2.2)	152Eu (89.8)	284.6 (10.3)	176Lu (71.5)
278.6	169Yb	281.6 (<0.1)	158Gd (181.9)	284.6 (5.9)	168Er (6228.8)
278.6 (0.6)	78Se (613.8)	281.6 (0.7)	142Pr (176.9)	284.7 (<0.1)	152Eu (89.8)
278.6 (<0.1)	152Eu (89.8)	281.6 (5.6)	77Se (238.9)	284.7	169Yb
278.6 (0.3)	176Lu (71.5)	281.7 (4.7)	154Eu (68.2)	284.7 (18.8)	73Ge (326.0)
278.7 (1.9)	66Cu (185.9)	281.7 (<0.1)	152Eu (89.8)	284.7 (1.0)	104Rh (180.9)
278.7 (<0.1)	152Eu (89.8)	281.8 (<0.1)	76As (165.0)	284.9 (<0.1)	152Eu (89.8)
278.8 (<0.1)	158Gd (181.9)	281.8 (0.8)	238Np (5352.0)	284.9 (13.1)	116In (273.0)
278.8 (<0.1)	163Dy (351.1)	281.9 (0.1)	78Se (613.8)	284.9 (<0.1)	124Te (602.4)
278.8 (<0.1)	204Tl (139.9)	281.9 (0.5)	170Tm (204.5)	285.0 (0.2)	154Eu (68.2)
278.8 (0.9)	186Re (59.0)	281.9 (0.2)	152Eu (89.8)	285.0 (1.0)	134Cs (116.4)
278.9 (<0.1)	152Eu (89.8)	282.0 (<0.1)	156Gd (89.0)	285.0 (0.2)	150Sm (334.0)
278.9 (<0.1)	200Hg (367.9)	282.2 (<0.1)	110Ag (198.7)	285.0 (<0.1)	151Sm (5288.0)

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV (% γ)	Nucleus (Strongest γ)	E γ keV (% γ)	Nucleus (Strongest γ)	E γ keV (% γ)	Nucleus (Strongest γ)
285.0 (0.1)	152Eu (89.8)	288.5 (<0.1)	96Mo (778.3)	292.6 (<0.1)	169Er (429.9)
285.1 (4.3)	186Re (59.0)	288.5 (0.2)	156Gd (89.0)	292.7 (<0.1)	152Eu (89.8)
285.1 (<0.1)	204Tl (139.9)	288.6 (<0.1)	190Os (186.7)	292.8 (11.3)	204Tl (139.9)
285.1 (0.1)	80Br (37.1)	288.6 (<0.1)	110Ag (198.7)	292.8 (9.6)	75Se (286.6)
285.1 (1.2)	152Eu (89.8)	288.6	175Yb	292.9 (0.1)	152Eu (89.8)
285.2 (0.3)	104Rh (180.9)	288.7 (0.2)	152Eu (99.8)	293.0 (1.1)	198Au (214.8)
285.2 (0.3)	153Sm (127.3)	288.8 (<0.1)	110Ag (198.7)	293.2 (<0.1)	152Eu (89.8)
285.3 (<0.1)	152Eu (89.8)	289.0 (0.2)	152Eu (89.8)	293.2 (1.2)	116In (273.0)
285.5 (<0.1)	152Eu (89.8)	289.0 (0.9)	154Eu (68.2)	293.2	94Nb
285.5 (0.3)	188Re (63.6)	289.0 (1.0)	238Np (5352.0)	293.2 (0.1)	154Eu (68.2)
285.6 (6.9)	163Dy (351.1)	289.1 (0.5)	186Re (59.0)	293.3 (<0.1)	110Ag (198.7)
285.6 (0.5)	176Lu (71.5)	289.1 (<0.1)	152Eu (89.8)	293.3 (3.0)	134Cs (116.4)
285.7 (<0.1)	158Gd (181.9)	289.1 (0.6)	74Ge (595.7)	293.3 (0.5)	104Rh (180.9)
285.9 (<0.1)	177Yb (151.6)	289.1 (1.0)	104Rh (180.9)	293.3 (0.3)	198Au (214.8)
286.0 (<0.1)	152Eu (89.8)	289.1 (8.4)	166Ho (136.7)	293.4 (0.2)	152Eu (89.8)
286.2 (<0.1)	152Eu (89.8)	289.2 (0.8)	170Tm (204.5)	293.5 (<0.1)	168Er (6228.8)
286.2 (1.4)	104Rh (180.9)	289.2 (0.2)	152Eu (89.8)	293.5 (0.5)	153Sm (127.3)
286.2 (<0.1)	158Gd (181.9)	289.3 (<0.1)	158Gd (181.9)	293.6 (0.1)	152Eu (89.8)
286.3 (<0.1)	150Sm (334.0)	289.3 (<0.1)	152Eu (89.8)	293.6	172Yb
286.3 (0.2)	165Dy (108.2)	289.4 (0.1)	200Hg (367.9)	293.6 (2.9)	116In (273.0)
286.3 (<0.1)	233Th (3473.0)	289.5 (5.6)	194Ir (371.7)	293.8 (<0.1)	152Eu (89.8)
286.4 (<0.1)	152Eu (89.8)	289.5 (0.2)	162Dy (185.0)	293.8 (0.9)	188Re (63.6)
286.5 (1.7)	186Re (59.0)	289.5 (5.6)	163Dy (351.1)	293.8 (<0.1)	152Eu (89.8)
286.5 (<0.1)	152Eu (89.8)	289.5 (0.2)	177Lu (150.4)	293.9 (<0.1)	96Mo (778.3)
286.5 (<0.1)	200Hg (367.9)	289.6 (6.6)	101Mo (180.7)	294.0 (1.3)	185W (4573.6)
286.6 (100.0)	75Se (286.6)	289.8 (<0.1)	152Eu (89.8)	294.0 (<0.1)	80Br (37.1)
286.7 (0.1)	152Eu (89.8)	289.9 (0.3)	134Cs (116.4)	294.1 (<0.1)	152Eu (89.8)
286.7 (0.3)	188Re (63.6)	289.9 (11.6)	187W (5261.8)	294.1 (1.4)	238Np (5352.0)
286.8 (<0.1)	152Eu (89.8)	290.0 (<0.1)	152Eu (89.8)	294.1 (0.2)	198Au (214.8)
286.9 (<0.1)	158Gd (181.9)	290.0 (0.1)	198Au (214.8)	294.1 (<0.1)	110Ag (198.7)
286.9 (<0.1)	98Mo (787.4)	290.1 (<0.1)	80Br (37.1)	294.2 (0.1)	152Eu (89.8)
286.9 (1.9)	182Ta (270.4)	290.1 (<0.1)	152Eu (89.8)	294.2 (0.2)	154Eu (68.2)
287.0 (100.0)	59Fe (287.0)	290.2 (0.4)	104Rh (180.9)	294.3 (<0.1)	152Eu (89.8)
287.0 (0.2)	78Se (613.8)	290.3 (<0.1)	152Eu (89.8)	294.3 (0.3)	177Lu (150.4)
287.0 (0.4)	104Rh (180.9)	290.5 (<0.1)	152Eu (89.8)	294.3 (5.6)	80Br (37.1)
287.1 (<0.1)	110Ag (198.7)	290.6 (6.2)	166Ho (136.7)	294.4 (<0.1)	168Er (6228.8)
287.1 (<0.1)	204Tl (139.9)	290.7 (0.4)	134Cs (116.4)	294.4 (69.3)	103Ru (174.0)
287.1 (1.6)	187W (5261.8)	290.7 (58.2)	188Re (63.6)	294.5 (0.1)	152Eu (89.8)
287.1	172Yb	290.7 (0.4)	154Eu (68.2)	294.5 (25.0)	194Ir (371.7)
287.2 (0.5)	152Eu (89.8)	290.7 (4.9)	194Ir (371.7)	294.5 (1.1)	187W (5261.8)
287.2 (<0.1)	200Hg (367.9)	290.7 (0.2)	153Sm (127.3)	294.6 (0.1)	152Eu (89.8)
287.2 (0.6)	166Ho (136.7)	290.7 (<0.1)	152Eu (89.8)	294.6 (5.6)	164Dy (73.4)
287.3 (<0.1)	158Gd (181.9)	290.8 (<0.1)	158Gd (181.9)	294.6 (71.7)	101Mo (180.7)
287.3 (<0.1)	152Eu (89.8)	290.9 (0.2)	198Au (214.8)	294.7 (<0.1)	152Eu (89.8)
287.3 (3.8)	103Ru (174.0)	290.9 (3.3)	140La (5097.9)	294.8 (<0.1)	152Eu (89.8)
287.3 (1.9)	140La (5097.9)	291.0 (7.6)	116In (273.0)	294.8	108Ag
287.3 (0.4)	176Lu (71.5)	291.0 (<0.1)	152Eu (89.8)	294.8 (2.8)	142Pr (176.9)
287.5	108Ag	291.2 (1.4)	153Sm (127.3)	294.9 (0.8)	104Rh (180.9)
287.5 (0.5)	153Sm (127.3)	291.2	169Yb	295.0 (5.2)	184W (111.2)
287.5 (0.2)	152Eu (89.8)	291.3 (<0.1)	152Eu (89.8)	295.0 (1.0)	139Ba (627.3)
287.6	169Yb	291.4	172Yb	295.0 (15.1)	52V (125.1)
287.6 (0.2)	152Eu (89.8)	291.5 (<0.1)	152Eu (89.8)	295.0 (<0.1)	152Eu (89.8)
287.6 (<0.1)	200Hg (367.9)	291.5 (11.4)	188Re (63.6)	295.1 (3.3)	162Dy (185.0)
287.7 (86.7)	114In (311.7)	291.5 (0.2)	163Dy (351.1)	295.1 (<0.1)	158Gd (181.9)
287.8 (0.1)	193Os (5276.0)	291.6 (14.9)	198Au (214.8)	295.1 (0.3)	152Eu (89.8)
287.8 (<0.1)	152Eu (89.8)	291.7 (0.2)	104Rh (180.9)	295.2 (56.7)	46Sc (227.8)
287.9 (1.2)	188Re (63.6)	291.7 (<0.1)	158Gd (181.9)	295.3	128I
288.0 (22.4)	174Yb (176.6)	291.8 (0.5)	174Yb (176.6)	295.4 (<0.1)	152Eu (89.8)
288.0 (<0.1)	158Gd (181.9)	291.8 (0.1)	154Eu (68.2)	295.4 (3.6)	134Cs (116.4)
288.0 (4.4)	153Eu (97.4)	291.9 (<0.1)	152Eu (89.8)	295.5 (<0.1)	158Gd (181.9)
288.0	124Sb	291.9 (<0.1)	165Dy (108.2)	295.5 (8.8)	116In (273.0)
288.1 (0.5)	177Lu (150.4)	291.9 (<0.1)	158Gd (181.9)	295.5 (0.4)	152Eu (89.8)
288.1 (<0.1)	158Gd (181.9)	292.0 (0.3)	198Au (214.8)	295.7 (<0.1)	152Eu (89.8)
288.2 (0.4)	104Rh (180.9)	292.2 (<0.1)	152Eu (89.8)	295.7 (<0.1)	158Gd (181.9)
288.2 (0.2)	152Eu (89.8)	292.2 (<0.1)	163Dy (351.1)	295.7 (3.8)	193Os (5276.0)
288.2 (1.6)	170Tm (204.5)	292.4 (<0.1)	204Tl (139.9)	295.7 (0.5)	154Eu (68.2)
288.2 (89.8)	140La (5097.9)	292.4 (0.2)	162Dy (185.0)	295.8 (<0.1)	92Zr (934.5)
288.4 (<0.1)	152Eu (89.8)	292.5 (0.6)	176Lu (71.5)	295.8 (<0.1)	152Eu (89.8)
288.4 (0.3)	202Hg (439.5)	292.5 (<0.1)	158Gd (181.9)	295.8 (<0.1)	160Tb (75.1)
288.5	122Sb	292.5 (<0.1)	152Eu (89.8)	295.8 (0.1)	198Au (214.8)

Table I. CAPTURE γ 's - energy sorted (cont.)

Ex keV (χ ly)	Nucleus (Strongest γ)	Ex keV (χ ly)	Nucleus (Strongest γ)	Ex keV (χ ly)	Nucleus (Strongest γ)
295.9 (1.3)	186Re (59.0)	299.4 (2.3)	176Lu (71.5)	302.9 (<0.1)	182Dy (185.0)
295.9 (0.7)	104Rh (180.9)	299.5	108A2	303.0 (1.5)	153Sm (127.3)
295.9 (0.1)	152Eu (89.8)	299.5 (0.6)	116In (273.0)	303.0 (1.2)	105Ru (143.2)
296.0 (<0.1)	158Gd (181.9)	299.5 (<0.1)	152Eu (89.8)	303.0 (0.1)	80Br (37.1)
296.2 (0.5)	134Cs (116.4)	299.5 (<0.1)	200Hg (367.9)	303.1 (0.3)	116In (273.0)
296.2 (0.2)	177Lu (150.4)	299.5 (0.8)	80Br (37.1)	303.1 (<0.1)	152Eu (89.8)
296.2 (0.3)	178Lu (71.5)	299.8 (<0.1)	158Gd (181.9)	303.2 (1.5)	153Sm (127.3)
296.3 (0.2)	198Au (214.8)	299.6	179Hf	303.2 (2.4)	134Cs (116.4)
296.4 (<0.1)	152Eu (89.8)	299.6 (<0.1)	152Eu (89.8)	303.2	94Nb
296.4 (0.4)	154Eu (68.2)	299.7 (<0.1)	75Ge (574.7)	303.2 (10.3)	187W (5261.8)
296.4 (0.2)	198Au (214.8)	299.8 (1.0)	152Eu (89.8)	303.3 (0.2)	176Lu (71.5)
296.4 (3.7)	156Gd (89.0)	299.8 (30.4)	187Os (427.1)	303.4 (<0.1)	152Eu (89.8)
296.5 (<0.1)	152Eu (89.8)	299.9 (0.3)	152Eu (89.8)	303.5 (0.3)	152Eu (89.8)
296.6 (0.2)	177Lu (150.4)	299.9 (<0.1)	163Dy (351.1)	303.5 (0.1)	177Lu (150.4)
296.7 (<0.1)	152Eu (89.8)	299.9 (<0.1)	200Hg (367.9)	303.5 (<0.1)	152Eu (89.8)
296.8 (<0.1)	68Zn (1077.4)	299.9 (5.5)	80Br (37.1)	303.6 (2.2)	104Rh (180.9)
296.8 (0.5)	153Sm (127.3)	299.9 (0.7)	176Lu (71.5)	303.6 (0.4)	193Os (5276.0)
296.9	124Sb	300.0 (0.4)	154Eu (68.2)	303.7 (2.7)	170Ta (204.5)
296.9 (0.7)	114In (311.7)	300.2 (0.2)	152Eu (89.8)	303.7 (<0.1)	158Gd (181.9)
296.9 (1.4)	80Br (37.1)	300.2 (7.7)	185Os (6588.0)	303.7 (2.4)	77Se (238.9)
297.0 (0.2)	233Th (3473.0)	300.2 (<0.1)	204Tl (139.9)	303.8 (<0.1)	168Er (6228.8)
297.1 (23.0)	182Ta (270.4)	300.2 (11.8)	188Re (63.6)	304.0 (<0.1)	158Gd (181.9)
297.1 (<0.1)	152Eu (89.8)	300.2	175Yb	304.0 (<0.1)	152Eu (89.8)
297.2 (16.2)	77Se (238.9)	300.3 (1.6)	116In (273.0)	304.0	179Hf
297.2 (52.1)	73Ge (326.0)	300.3 (<0.1)	152Eu (89.8)	304.1 (0.1)	152Eu (89.8)
297.2 (0.2)	152Eu (89.8)	300.5 (<0.1)	233Th (3473.0)	304.2 (0.2)	198Au (214.8)
297.4 (0.4)	154Eu (68.2)	300.5 (0.5)	104Rh (180.9)	304.3 (<0.1)	158Gd (181.9)
297.4 (0.1)	163Dy (351.1)	300.6 (<0.1)	152Eu (89.8)	304.3 (<0.1)	110Ag (198.7)
297.4	169Yb	300.6 (<0.1)	76As (165.0)	304.3 (<0.1)	152Eu (89.8)
297.4 (<0.1)	168Er (6228.8)	300.6 (<0.1)	152Eu (89.8)	304.4 (15.5)	191Os (5147.1)
297.5 (<0.1)	152Eu (89.8)	300.7 (0.7)	170Tm (204.5)	304.4 (0.1)	152Eu (89.8)
297.6 (0.7)	198Au (214.8)	300.7 (0.1)	198Au (214.8)	304.5 (<0.1)	156Gd (89.0)
297.6 (<0.1)	76As (155.0)	300.8 (5.2)	194Ir (371.7)	304.5 (0.1)	152Eu (89.8)
297.6 (0.7)	193Os (5276.0)	300.9 (<0.1)	152Eu (89.8)	304.5 (0.7)	110Ag (198.7)
297.7 (6.0)	238Np (5352.0)	300.9 (5.5)	105Ru (143.2)	304.6 (1.1)	104Rh (180.9)
297.7 (<0.1)	152Eu (89.8)	301.0 (<0.1)	152Eu (89.8)	304.6 (6.0)	194Ir (371.7)
297.8 (0.1)	80Br (37.1)	301.0 (<0.1)	236U (642.2)	304.6 (0.1)	152Eu (89.8)
297.8 (0.3)	188Re (63.6)	301.1 (<0.1)	110Ag (198.7)	304.8 (2.2)	140La (5097.9)
297.9 (0.1)	152Eu (89.8)	301.1 (3.6)	177Lu (150.4)	305.0 (0.1)	80Br (37.1)
297.9 (1.4)	166Ho (136.7)	301.1 (<0.1)	158Gd (181.9)	305.0 (3.1)	105Ru (143.2)
298.1 (0.3)	193Os (5276.0)	301.2 (0.1)	198Au (214.8)	305.1 (<0.1)	152Eu (89.8)
298.1 (0.8)	150Sm (334.0)	301.2 (<0.1)	152Eu (89.8)	305.1 (1.3)	134Cs (116.4)
298.1 (1.1)	72Ga (145.1)	301.2 (<0.1)	180Tb (74.1)	305.1 (2.9)	116In (273.0)
298.1 (0.6)	60Co (229.8)	301.2 (<0.1)	158Gd (181.9)	305.3 (<0.1)	152Eu (89.8)
298.2 (<0.1)	110Ag (198.7)	301.3 (<0.1)	124Te (602.4)	305.3 (0.1)	80Br (37.1)
298.2 (<0.1)	98Mo (787.4)	301.3 (<0.1)	152Eu (89.8)	305.3 (66.4)	101Mo (180.7)
298.2 (0.6)	153Sm (127.3)	301.4 (1.1)	186Re (59.0)	305.3 (3.3)	104Rh (180.9)
298.2 (<0.1)	152Eu (89.8)	301.6 (2.1)	105Ru (143.2)	305.4 (<0.1)	152Eu (89.8)
298.2 (<0.1)	158Gd (181.9)	301.7 (0.3)	152Eu (89.8)	305.5 (<0.1)	158Gd (181.9)
298.3 (<0.1)	200Hg (367.9)	301.7 (<0.1)	158Gd (181.9)	305.5	124Sb
298.4 (0.3)	198Au (214.8)	301.7 (0.8)	176Lu (71.5)	305.6 (<0.1)	152Eu (89.8)
298.5 (14.2)	187Os (427.1)	301.8 (0.3)	144Nd (696.5)	305.6 (<0.1)	158Gd (181.9)
298.5 (<0.1)	152Eu (89.8)	301.8 (<0.1)	152Eu (89.8)	305.7 (0.1)	163Dy (351.1)
298.7 (28.9)	116In (273.0)	301.8 (<0.1)	158Gd (181.9)	305.7 (0.1)	80Br (37.1)
298.7 (<0.1)	96Mo (778.3)	301.8 (<0.1)	46Sc (227.8)	305.7 (0.2)	150Sm (334.0)
298.8 (<0.1)	200Hg (367.9)	301.9	128I	305.8 (2.2)	147Nd (314.7)
298.8 (0.1)	152Eu (89.8)	302.0 (<0.1)	200Hg (367.9)	305.9 (<0.1)	152Eu (89.8)
298.8 (0.1)	233Th (3473.0)	302.0 (0.1)	163Dy (351.1)	305.9 (0.5)	153Eu (97.4)
298.9 (0.2)	177Lu (150.4)	302.1 (5.2)	194Ir (371.7)	305.9 (<0.1)	68Zn (1077.4)
298.9 (1.1)	153Sm (127.3)	302.3 (0.4)	145Nd (852.8)	305.9 (<0.1)	162Dy (185.0)
299.0 (0.2)	198Au (214.8)	302.4 (0.2)	176Lu (71.5)	305.9 (0.4)	176Lu (71.5)
299.0 (1.3)	154Eu (68.2)	302.4 (0.1)	152Eu (89.8)	306.0 (0.7)	198Au (214.8)
299.0 (<0.1)	152Eu (89.8)	302.5 (0.2)	198Au (214.8)	306.1 (<0.1)	158Gd (181.9)
299.1 (1.8)	188Re (63.6)	302.5 (1.9)	134Cs (116.4)	306.1 (<0.1)	152Eu (89.8)
299.2	124Sb	302.6 (4.4)	249Cm (1408.3)	306.1 (6.3)	187Os (427.1)
299.3 (0.1)	152Eu (89.8)	302.6 (10.4)	72Ga (145.1)	306.1 (0.3)	188Re (63.6)
299.3 (<0.1)	158Gd (181.9)	302.7 (3.6)	153Eu (97.4)	306.1 (2.8)	72Ga (145.1)
299.3 (<0.1)	110Ag (198.7)	302.8 (<0.1)	152Eu (89.8)	306.2 (8.6)	71Ge (499.8)
299.3 (17.8)	197Pt (5846.3)	302.8 (<0.1)	160Tb (75.1)	306.2 (4.5)	194Ir (371.7)
299.4 (<0.1)	152Eu (89.8)	302.8 (<0.1)	110Ag (198.7)	306.2 (0.2)	163Dy (351.1)

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E γ keV ($\% \gamma$)	Nucleus (Strongest γ)
306.3 (<0.1)	143Nd (742.1)	310.4 (<0.1)	62Ni (1172.8)	314.2 (<0.1)	76As (165.0)
306.3 (<0.3)	151Nd (4487.8)	310.4 (<0.7)	145Nd (852.8)	314.2 (<1.7)	114In (311.7)
306.4 (0.2)	178Hf (213.4)	310.5 (<0.1)	152Eu (89.8)	314.3 (22.0)	194Ir (371.7)
306.4 (<0.1)	152Eu (89.8)	310.5 (32.9)	65Ni (6034.0)	314.3 (<0.1)	152Eu (89.8)
306.6 (<0.1)	200Hg (367.9)	310.5 (6.5)	177Yb (151.6)	314.4 (52.2)	56Mn (26.6)
306.7 (<0.1)	76As (165.0)	310.5 (<0.1)	204Tl (139.9)	314.6 (<0.1)	152Eu (89.8)
306.7 (<0.1)	152Eu (89.8)	310.5 (2.4)	114In (311.7)	314.6 (<0.1)	98Mo (787.4)
306.8 (9.2)	105Ru (143.2)	310.6 (0.3)	153Sm (127.3)	314.6 (1.5)	153Sm (127.3)
306.9 (<0.1)	200Hg (367.9)	310.7 (0.2)	152Eu (89.8)	314.6 (0.8)	46Sc (227.8)
306.9 (25.8)	114In (311.7)	310.7 (0.2)	177Lu (150.4)	314.7 (0.5)	174Yb (176.6)
307.0 (<0.1)	152Eu (89.8)	310.7 (<0.1)	150Sm (334.0)	314.7 (100.0)	147Nd (314.7)
307.0 (<0.1)	98Mo (787.4)	310.9 (<0.1)	188Re (63.6)	314.7 (<3.8)	198Au (214.8)
307.1 (5.5)	193Os (5276.0)	310.9 (1.9)	176Lu (71.5)	314.8 (2.5)	105Ru (143.2)
307.2 (14.1)	153Sm (127.3)	310.9 (17.0)	194Ir (371.7)	314.8 (<0.1)	152Eu (89.8)
307.3 (27.4)	134Cs (116.4)	310.9 (<0.1)	152Eu (89.8)	314.8 (0.2)	78Se (613.8)
307.3 (<0.1)	124Te (602.4)	311.0 (28.3)	170Tm (204.5)	314.8 (<0.1)	163Dy (351.1)
307.4 (1.6)	249Cm (1408.3)	311.1 (0.4)	80Br (37.1)	314.9 (<0.1)	152Eu (89.8)
307.4 (<0.1)	68Zn (1077.4)	311.1 (<0.1)	152Eu (89.8)	314.9 (3.5)	103Ru (174.0)
307.4 (1.9)	185Os (6588.0)	311.2 (3.1)	162Dy (185.0)	315.0 (21.0)	80Br (37.1)
307.5 (<0.1)	152Eu (89.8)	311.2	210Bi	315.0 (<0.1)	158Gd (181.9)
307.5 (0.2)	176Lu (71.5)	311.3	175Yb	315.0 (2.1)	116In (273.0)
307.5 (6.4)	198Au (214.8)	311.3	122Sb	315.0 (0.3)	162Dy (185.0)
307.6 (6.0)	186Re (59.0)	311.4 (5.8)	163Dy (351.1)	315.0 (<0.1)	158Gd (181.9)
307.6 (<0.1)	152Eu (89.8)	311.5 (0.5)	104Rh (180.9)	315.0 (<0.1)	110Ag (198.7)
307.6 (<0.1)	158Gd (181.9)	311.7 (100.0)	114In (311.7)	315.1 (<0.1)	152Eu (89.8)
307.7 (<0.1)	80Br (37.1)	311.7 (<0.1)	158Gd (181.9)	315.1 (0.3)	198Au (214.8)
307.8 (<0.1)	162Dy (185.0)	311.7 (6.8)	198Au (214.8)	315.1 (0.3)	182Ta (270.4)
307.8 (<0.1)	152Eu (89.8)	311.8 (<0.1)	165Dy (108.2)	315.2	169Yb
307.8 (<0.1)	143Nd (742.1)	311.9 (<0.1)	152Eu (89.8)	315.2 (<0.1)	156Gd (89.0)
308.0 (<0.1)	116In (273.0)	312.0 (1.0)	185W (4573.6)	315.2 (0.8)	153Sm (127.3)
308.0 (0.2)	152Eu (89.8)	312.0 (0.3)	190Os (186.7)	315.3 (<0.1)	152Eu (89.8)
308.0 (1.0)	104Rh (180.9)	312.1 (1.0)	188Os (155.0)	315.4 (<0.1)	168Er (6228.8)
308.0 (0.2)	202Hg (439.5)	312.1 (2.7)	249Cm (1408.3)	315.4 (10.5)	191Os (5147.1)
308.1 (<0.1)	236U (642.2)	312.2 (<0.1)	68Zn (1077.4)	315.4 (1.0)	134Cs (116.4)
308.2 (<0.1)	158Gd (181.9)	312.2 (<0.1)	80Br (37.1)	315.5 (2.5)	80Br (37.1)
308.2 (6.2)	71Ge (499.8)	312.3 (<0.1)	152Eu (89.8)	315.6 (0.3)	167Er (207.8)
308.4 (<0.1)	152Eu (89.8)	312.4 (0.1)	152Eu (89.8)	315.6 (0.8)	184W (111.2)
308.4 (<0.1)	158Gd (181.9)	312.5 (<0.1)	158Gd (181.9)	315.6	175Yb
308.4 (0.9)	188Re (63.6)	312.5 (<0.1)	110Ag (198.7)	315.6 (0.3)	176Lu (71.5)
308.5 (1.0)	182Ta (270.4)	312.6 (<0.1)	152Eu (89.8)	315.6 (11.3)	66Cu (185.9)
308.5 (<0.1)	200Hg (367.9)	312.6 (<0.1)	200Hg (367.9)	315.6 (0.1)	152Eu (89.8)
308.7 (1.5)	153Sm (127.3)	312.7 (0.2)	198Au (214.8)	315.7 (<0.1)	158Gd (181.9)
308.8 (<0.1)	158Gd (181.9)	312.7 (2.9)	114In (311.7)	315.8 (2.8)	72Ga (145.1)
308.8 (<0.1)	152Eu (89.8)	312.7 (1.5)	188Re (63.6)	315.9 (1.6)	86Rb (557.0)
308.8 (<0.1)	200Hg (367.9)	312.8 (0.3)	80Br (37.1)	315.9 (<0.1)	160Tb (75.1)
308.9 (1.1)	72Ga (145.1)	312.8 (0.3)	153Sm (127.3)	315.9 (<0.1)	177Lu (150.4)
309.1 (39.0)	194Ir (371.7)	312.9 (0.5)	198Au (214.8)	315.9 (11.8)	187Os (427.1)
309.1 (<0.1)	152Eu (89.8)	312.9 (0.2)	202Hg (439.5)	316.0 (<0.1)	152Eu (89.8)
309.1 (1.8)	164Dy (73.4)	313.0 (0.1)	163Dy (351.1)	316.0 (1.3)	185W (4573.6)
309.1 (1.3)	176Lu (71.5)	313.0 (0.1)	198Au (214.8)	316.1 (0.3)	80Br (37.1)
309.2 (0.2)	177Lu (150.4)	313.2 (<0.1)	200Hg (367.9)	316.1 (0.3)	152Eu (89.8)
309.2 (<0.1)	200Hg (367.9)	313.2 (0.1)	152Eu (89.8)	316.1 (1.3)	75Se (286.6)
309.3 (<0.1)	158Gd (181.9)	313.3 (2.4)	177Lu (150.4)	316.1 (0.2)	134Cs (116.4)
309.3 (0.2)	75Se (286.6)	313.4 (<0.1)	178Hf (213.4)	316.2 (<0.1)	200Hg (367.9)
309.3 (0.6)	152Eu (89.8)	313.4 (<0.1)	152Eu (89.8)	316.3 (2.9)	235U (4155.1)
309.5 (2.6)	105Ru (143.2)	313.5 (3.5)	153Sm (127.3)	316.3 (25.7)	163Dy (351.1)
309.5 (<0.1)	152Eu (89.8)	313.6 (<0.1)	152Eu (89.8)	316.3 (3.1)	249Cm (1408.3)
309.8 (<0.1)	152Eu (89.8)	313.6 (<0.1)	110Ag (198.7)	316.3	122Sb
309.8 (4.2)	134Cs (116.4)	313.7 (0.1)	198Au (214.8)	316.4 (0.5)	134Cs (116.4)
309.9	94Nb	313.8 (<0.1)	152Eu (89.8)	316.5 (49.2)	186Re (59.0)
309.9	175Yb	313.8 (19.6)	187Os (427.1)	316.5 (<0.1)	152Eu (89.8)
310.0 (<0.1)	152Eu (89.8)	313.8 (4.0)	72Ga (145.1)	316.6 (0.4)	176Lu (71.5)
310.1 (0.2)	188Re (63.6)	313.8 (<0.1)	233Th (3473.0)	316.7 (1.4)	233Th (3473.0)
310.1 (<0.1)	158Gd (181.9)	313.9	124Sb	316.8 (0.8)	198Au (214.8)
310.1 (2.6)	140La (5097.9)	314.0 (0.8)	205Pb (6731.5)	316.8 (0.2)	152Eu (89.8)
310.2 (29.0)	176Lu (71.5)	314.0 (0.3)	198Au (214.8)	316.8 (<0.1)	110Ag (198.7)
310.2 (0.2)	152Eu (89.8)	314.1 (2.8)	185Os (6588.0)	316.8 (<0.1)	158Gd (181.9)
310.2 (0.6)	144Nd (698.5)	314.2 (<0.1)	158Gd (181.9)	316.8 (5.7)	147Nd (314.7)
310.3 (<0.1)	152Eu (89.8)	314.2 (3.4)	249Cm (1408.3)	316.9 (97.6)	199Au (493.5)
310.3 (2.5)	147Nd (314.7)	314.2 (0.2)	152Eu (89.8)	316.9 (6.3)	73Ge (326.0)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV (χ/γ)	Nucleus (Strongest γ)	E_{γ} keV (χ/γ)	Nucleus (Strongest γ)	E_{γ} keV (χ/γ)	Nucleus (Strongest γ)
317.0 (<0.1)	158Gd (181.9)	320.6 (0.8)	176Lu (71.5)	324.9 (<0.1)	152Eu (89.8)
317.1 (2.6)	134Cs (116.4)	320.7 (0.2)	163Dy (351.1)	325.0 (0.5)	176Lu (71.5)
317.1 (1.0)	198Au (214.8)	320.8 (0.3)	152Eu (89.8)	325.1 (0.1)	198Au (214.8)
317.2 (0.1)	152Eu (89.8)	320.8 (<0.1)	233Th (3473.0)	325.2 (0.2)	77Se (238.9)
317.2	175Yb	320.9 (0.5)	198Au (214.8)	325.3 (0.6)	152Eu (89.8)
317.3 (0.4)	167Er (207.8)	320.9 (4.5)	116In (273.0)	325.3 (<0.1)	68Zn (1077.4)
317.3 (3.3)	104Rh (180.9)	320.9 (1.8)	188Re (63.6)	325.3 (<0.1)	200Hg (367.9)
317.3 (<0.1)	110Ag (198.7)	320.9 (<0.1)	152Eu (89.8)	325.5 (1.2)	188Re (13.6)
317.3 (1.0)	188Re (63.6)	321.1 (<0.1)	152Eu (89.8)	325.5 (16.5)	178Hf (21.4)
317.4 (1.0)	114In (311.7)	321.1 (40.0)	153Sm (127.3)	325.5 (1.0)	182Ta (270.4)
317.4	128I	321.2 (1.0)	190Os (186.7)	325.6 (1.2)	198Au (214.8)
317.5 (<0.1)	152Eu (89.8)	321.2 (<0.1)	152Eu (89.8)	325.6 (<0.1)	110Ag (198.7)
317.5 (<0.1)	158Gd (181.9)	321.3 (6.7)	167Er (207.8)	325.7 (0.4)	177Lu (150.4)
317.6 (0.5)	182Ta (270.4)	321.4 (0.2)	152Eu (89.8)	325.8 (<0.1)	152Eu (89.8)
317.6 (<0.1)	160Tb (75.1)	321.5 (53.4)	105Ru (143.2)	325.8 (<0.1)	158Gd (181.9)
317.7 (<0.1)	152Eu (89.8)	321.5 (0.3)	176Lu (71.5)	325.9 (<0.1)	158Gd (89.0)
317.7 (<0.1)	200Hg (367.9)	321.5 (<0.1)	200Hg (367.9)	326.0	169Yb
317.8 (2.0)	153Sm (127.3)	321.7 (2.0)	116In (273.0)	326.0 (36.0)	71Ge (499.8)
317.9 (0.2)	162Dy (185.0)	321.7 (<0.1)	152Eu (89.8)	326.0 (100.0)	73Ge (326.0)
318.0 (0.1)	152Eu (89.8)	321.7	172Yb	326.0 (<0.1)	196Pt (356.1)
318.0 (10.2)	184W (111.2)	321.7 (1.6)	186Re (59.0)	326.0 (<0.1)	110Ag (198.7)
318.0 (<0.1)	200Hg (367.9)	321.9 (<0.1)	158Gd (181.9)	326.1 (0.1)	152Eu (89.8)
318.1 (4.5)	163Dy (351.1)	321.9 (1.9)	249Cm (1408.3)	326.1 (<0.1)	204Tl (139.9)
318.1 (0.8)	72Ga (145.1)	321.9 (0.8)	80Br (37.1)	326.1 (1.2)	193Os (5276.0)
318.1 (1.3)	160Tb (75.1)	321.9 (2.4)	162Dy (185.0)	326.2 (<0.1)	202Hg (439.5)
318.2 (<0.1)	152Eu (89.8)	322.0 (0.1)	152Eu (89.8)	326.2 (0.5)	98Mo (787.4)
318.3 (<0.1)	158Gd (181.9)	322.1	124Sb	326.4 (2.1)	104Rh (180.9)
318.4 (2.1)	188Re (63.6)	322.1 (<0.1)	158Gd (181.9)	326.4 (0.1)	152Eu (89.8)
318.4 (0.5)	198Au (214.8)	322.2 (<0.1)	165Dy (108.2)	326.5 (0.5)	153Sm (127.3)
318.4 (24.0)	70Ga (508.4)	322.2 (0.1)	152Eu (89.8)	326.5 (0.2)	152Eu (89.8)
318.6 (1.5)	116In (273.0)	322.3 (4.7)	114In (311.7)	326.6 (0.3)	170Tm (204.5)
318.6 (<0.1)	156Gd (89.0)	322.3 (0.7)	80Br (37.1)	326.6 (0.3)	177Lu (150.4)
318.6	169Yb	322.4 (5.5)	105Ru (143.2)	326.6 (0.4)	152Eu (89.8)
318.7 (0.4)	152Eu (89.8)	322.4 (1.4)	182Ta (270.4)	327.0 (<0.1)	198Au (214.8)
318.9 (<0.1)	152Eu (89.8)	322.5 (0.1)	152Eu (89.8)	327.0 (<0.1)	110Ag (198.7)
319.0 (22.4)	177Lu (150.4)	322.5 (<0.1)	68Zn (1077.4)	327.0 (0.2)	176Lu (71.5)
319.0 (2.2)	64Cu (7916.0)	322.5 (<0.1)	110Ag (198.7)	327.0 (2.1)	162Dy (185.0)
319.1 (2.9)	233Th (3473.0)	322.6 (<0.1)	158Gd (181.9)	327.3 (<0.1)	152Eu (89.8)
319.2 (1.3)	75Se (286.6)	322.6 (<0.1)	200Hg (367.9)	327.4 (0.8)	104Rh (180.9)
319.3 (<0.1)	152Eu (89.8)	322.7 (10.0)	185Os (6588.0)	327.5 (1.8)	193Os (5276.0)
319.3 (35.6)	204Tl (139.9)	322.7 (0.5)	134Cs (116.4)	327.5 (1.6)	142Pr (176.9)
319.3 (0.5)	98Mo (787.4)	322.7 (0.2)	152Eu (89.8)	327.5 (0.4)	233Th (3473.0)
319.4 (0.2)	198Au (214.8)	322.8 (0.4)	188Re (63.6)	327.7 (<0.1)	152Eu (89.8)
319.4 (<0.1)	158Gd (181.9)	322.9 (1.8)	177Lu (150.4)	327.7 (<0.1)	76As (165.0)
319.4 (1.3)	116In (273.0)	322.9 (<0.1)	152Eu (89.8)	327.7 (0.1)	78Se (613.8)
319.4 (3.3)	186Re (59.0)	322.9 (<0.1)	163Dy (351.1)	327.8 (0.3)	153Sm (127.3)
319.5 (0.1)	162Dy (185.0)	323.0 (16.2)	189Os (155.0)	327.8 (0.1)	152Eu (89.8)
319.5 (4.2)	174Yb (176.6)	323.1 (<0.1)	152Eu (89.8)	327.9 (<0.1)	156Gd (89.0)
319.6 (<0.1)	200Hg (367.9)	323.1 (2.6)	86Rb (557.0)	328.1 (<0.1)	152Eu (89.8)
319.6 (0.2)	152Eu (89.8)	323.1 (<0.1)	187Os (427.1)	328.3 (0.1)	158Gd (181.9)
319.6 (1.0)	104Rh (180.9)	323.1 (0.2)	56Mn (26.6)	328.3 (21.3)	198Au (214.8)
319.6 (0.1)	80Br (37.1)	323.3 (0.3)	105Ru (143.2)	328.3 (<0.1)	152Eu (89.8)
319.7 (<0.1)	233Th (3473.0)	323.5 (9.0)	199Au (493.5)	328.4 (0.5)	188Re (63.6)
319.7 (0.8)	114In (311.7)	323.5 (<0.1)	152Eu (89.8)	328.4 (<0.1)	177Yb (151.6)
319.7	210Bi	323.5 (1.5)	235U (4155.1)	328.4 (0.5)	186Re (59.0)
319.8 (0.2)	152Eu (89.8)	323.7 (<0.1)	152Eu (89.8)	328.6 (0.5)	198Au (214.8)
319.8 (1.6)	158Gd (181.9)	323.8 (<0.1)	158Gd (181.9)	328.6 (<0.1)	178Hf (213.4)
319.8	94Nb	323.8 (6.7)	104Rh (180.9)	328.6 (0.7)	176Lu (71.5)
319.8 (<0.1)	158Gd (181.9)	323.9 (<0.1)	152Eu (89.8)	328.7 (0.8)	104Rh (180.9)
320.0 (<0.1)	152Eu (89.8)	323.9 (<0.1)	110Ag (198.7)	328.8 (<0.1)	110Ag (198.7)
320.0 (<0.1)	158Gd (181.9)	323.9 (0.4)	188Re (63.6)	328.8 (5.8)	147Nd (314.7)
320.0 (0.4)	170Tm (204.5)	324.0 (2.8)	55Cr (6246.4)	328.8 (0.3)	198Au (214.8)
320.1 (11.0)	51V (1609.3)	324.1 (0.9)	140La (5097.9)	328.9 (<0.1)	158Gd (181.9)
320.3 (0.1)	78Se (613.8)	324.2 (0.1)	80Br (37.1)	329.0 (<0.1)	152Eu (89.8)
320.3 (0.1)	202Hg (439.5)	324.5 (<0.1)	152Eu (89.8)	329.0 (1.3)	134Cs (116.4)
320.4 (<0.1)	158Gd (181.9)	324.5 (3.3)	104Rh (180.9)	329.1 (3.3)	191Os (5147.1)
320.4 (<0.1)	233Th (3473.0)	324.7 (22.0)	194Ir (371.7)	329.2	94Nb
320.5 (<0.1)	152Eu (89.8)	324.7 (1.4)	198Au (214.8)	329.2 (0.6)	162Dy (185.0)
320.5 (0.3)	235U (4155.1)	324.7 (0.1)	152Eu (89.8)	329.3 (<0.1)	152Eu (89.8)
320.6 (<0.1)	152Eu (89.8)	324.7	122Sb	329.3 (<0.1)	200Hg (367.9)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV (% γ)	Nucleus (Strongest γ)	E_{γ} keV (% γ)	Nucleus (Strongest γ)	E_{γ} keV (% γ)	Nucleus (Strongest γ)
329.3 (0.4)	176Lu (71.5)	333.6 (12.0)	104Rh (180.9)	337.7 (34.0)	194Ir (371.7)
329.4 (2.9)	153Sm (127.3)	333.6 (0.1)	152Eu (89.8)	337.7 (7.6)	116In (273.0)
329.5 (<0.1)	152Eu (89.8)	333.6 (5.8)	166Ho (136.7)	337.8 (<0.1)	158Gd (181.9)
329.5 (0.3)	170Tm (204.5)	333.7 (1.6)	198Au (214.8)	337.8 (<0.1)	110Ag (198.7)
329.6 (0.9)	80Br (37.1)	333.8 (0.2)	80Br (37.1)	337.8 (<0.1)	152Eu (89.8)
329.6 (1.1)	177Lu (150.4)	333.8 (<0.1)	144Nd (696.5)	338.0 (<0.1)	110Ag (198.7)
329.6 (1.5)	153Eu (97.4)	333.8 (0.3)	198Au (214.8)	338.0 (0.7)	134Cs (116.4)
329.8 (<0.1)	158Gd (181.9)	333.9 (0.2)	152Eu (89.8)	338.1	108Ag
329.9 (0.2)	152Eu (89.8)	333.9 (0.2)	92Zr (934.5)	338.2 (4.5)	188Re (63.6)
329.9 (0.8)	233Th (3473.0)	333.9 (4.3)	105Ru (143.2)	338.2 (<0.1)	152Eu (89.8)
330.0 (4.2)	101Mo (180.7)	334.0 (100.0)	150Sm (334.0)	338.2 (0.6)	153Eu (97.4)
330.0 (1.1)	163Dy (351.1)	334.0 (0.1)	152Eu (89.8)	338.3	124Sb
330.0 (0.1)	162Dy (185.0)	334.1 (1.3)	114In (311.7)	338.4 (0.1)	152Eu (89.8)
330.2 (<0.1)	156Gd (89.0)	334.1 (13.8)	162Dy (185.0)	338.4 (1.0)	153Eu (97.4)
330.3 (0.1)	152Eu (89.8)	334.1 (2.1)	142Pr (176.9)	338.5 (2.7)	176Lu (71.5)
330.3 (<0.1)	158Gd (181.9)	334.1 (8.2)	145Nd (852.8)	338.5 (13.4)	163Dy (351.1)
330.3 (<0.1)	200Hg (367.9)	334.2 (0.3)	80Br (37.1)	338.5 (0.1)	152Eu (89.8)
330.3 (0.5)	188Re (63.6)	334.4 (0.1)	152Eu (89.8)	338.8 (<0.1)	200Hg (367.9)
330.4 (<0.1)	76As (165.0)	334.5 (9.4)	194Ir (371.7)	338.8 (0.1)	152Eu (89.8)
330.5 (3.7)	64Cu (7916.0)	334.5 (<0.1)	152Eu (89.8)	338.9 (<0.1)	110Ag (198.7)
330.5 (<0.1)	204Tl (139.9)	334.5 (<0.1)	158Gd (181.9)	339.0 (0.3)	158Gd (181.9)
330.5 (4.0)	176Lu (71.5)	334.6 (0.2)	152Eu (89.8)	339.1 (<0.1)	178Hf (213.4)
330.6 (0.2)	152Eu (89.8)	334.7 (<0.1)	158Gd (181.9)	339.2 (0.5)	198Au (214.8)
330.7 (<0.1)	124Te (602.4)	334.8 (0.2)	152Eu (89.8)	339.2 (<0.1)	152Eu (89.8)
330.7 (0.2)	152Eu (89.8)	334.9 (0.1)	152Eu (89.8)	339.2 (2.1)	249Cm (1408.3)
330.8 (1.5)	153Sm (127.3)	335.0	124Sb	339.3 (1.4)	116In (273.0)
330.8 (<0.1)	200Hg (367.9)	335.0 (0.3)	170Tm (204.5)	339.3 (1.8)	184W (111.2)
330.9 (0.5)	177Lu (150.4)	335.0	128I	339.4 (1.4)	114In (311.7)
330.9 (2.5)	187W (5261.8)	335.0 (0.3)	134Cs (116.4)	339.4 (0.3)	198Au (214.8)
331.0 (0.1)	152Eu (89.8)	335.1 (0.5)	198Au (214.8)	339.4 (0.2)	156Gd (89.0)
331.0	108Ag	335.3	122Sb	339.4 (0.2)	152Eu (89.8)
331.1 (8.0)	194Ir (371.7)	335.3 (0.6)	198Au (214.8)	339.5	177Hf
331.2 (2.3)	77Se (238.9)	335.4 (0.1)	98Mo (787.4)	339.5 (10.7)	191Os (5147.1)
331.2 (0.9)	165Dy (108.2)	335.5 (28.9)	116In (273.0)	339.7 (0.1)	152Eu (89.8)
331.2 (<0.1)	158Gd (181.9)	335.5 (<0.1)	152Eu (89.8)	339.9 (0.1)	152Eu (89.8)
331.2 (0.1)	78Se (613.8)	335.5 (4.7)	56Mn (26.6)	339.9 (<0.1)	76As (165.0)
331.3 (5.6)	71Ge (499.8)	335.6 (1.3)	188Re (63.6)	340.0 (<0.1)	98Mo (787.4)
331.3 (<0.1)	200Hg (367.9)	335.6 (<0.1)	152Eu (89.8)	340.0 (5.9)	249Cm (1408.3)
331.3 (1.1)	233Th (3473.0)	335.7 (0.8)	186Re (59.0)	340.0 (0.3)	198Au (214.8)
331.4 (<0.1)	152Eu (89.8)	335.7 (<0.1)	168Er (6228.8)	340.0 (<0.1)	200Hg (367.9)
331.5	124Sb	335.7 (60.5)	147Nd (314.7)	340.1 (<0.1)	152Eu (89.8)
331.6 (1.2)	116In (273.0)	335.8 (1.0)	116In (273.0)	340.2 (3.3)	160Tb (75.1)
331.6 (3.1)	105Ru (143.2)	335.8 (25.7)	176Lu (71.5)	340.2 (37.4)	114In (311.7)
331.8 (<0.1)	152Eu (89.8)	335.9 (<0.1)	158Gd (181.9)	340.3 (0.4)	188Re (63.6)
331.9 (1.0)	166Ho (136.7)	335.9 (<0.1)	110Ag (198.7)	340.3 (0.3)	75Se (286.6)
331.9 (<0.1)	158Gd (181.9)	335.9 (3.5)	233Th (3473.0)	340.4 (5.3)	249Cm (1408.3)
332.0 (0.2)	152Eu (89.8)	336.0 (<0.1)	152Eu (89.8)	340.5 (0.2)	152Eu (89.8)
332.1 (<0.1)	204Tl (139.9)	336.0 (2.1)	185Os (6588.0)	340.7 (<0.1)	152Eu (89.8)
332.1 (<0.1)	143Nd (742.1)	336.1 (0.7)	134Cs (116.4)	340.8 (37.0)	194Ir (371.7)
332.1 (<0.1)	152Eu (89.8)	336.1 (0.4)	198Au (214.8)	340.9 (<0.1)	152Eu (89.8)
332.2 (6.9)	238Np (5352.0)	336.2 (0.5)	158Gd (181.9)	341.0 (1.1)	153Sm (127.3)
332.2 (0.3)	151Nd (4487.8)	336.3 (1.1)	177Lu (150.4)	341.0 (3.3)	56Mn (26.6)
332.2	122Sb	336.4 (<0.1)	152Eu (89.8)	341.0 (0.1)	80Br (37.1)
332.3 (<0.1)	152Eu (89.8)	336.4 (1.4)	114In (311.7)	341.1 (<0.1)	152Eu (89.8)
332.5 (0.8)	170Tm (204.5)	336.5 (0.5)	134Cs (116.4)	341.3 (17.0)	87Kr (1475.9)
332.5 (0.4)	198Au (214.8)	336.5 (0.1)	152Eu (89.8)	341.3 (0.2)	177Lu (150.4)
332.6 (1.0)	188Os (155.0)	336.8 (0.2)	170Tm (204.5)	341.3 (3.7)	235U (4155.1)
332.6 (9.0)	191Os (5147.1)	336.8 (1.0)	142Pr (176.9)	341.4 (<0.1)	200Hg (367.9)
332.7 (4.3)	235U (4155.1)	337.0 (<0.1)	152Eu (89.8)	341.4 (2.0)	186Re (59.0)
332.7 (<0.1)	200Hg (367.9)	337.2 (<0.1)	204Tl (139.9)	341.4 (0.1)	162Dy (185.0)
332.7 (<0.1)	158Gd (181.9)	337.3 (1.3)	60Co (229.8)	341.5 (0.9)	198Au (214.8)
332.8 (0.1)	152Eu (89.8)	337.3 (<0.1)	158Gd (181.9)	341.6 (7.5)	142Pr (176.9)
333.0	179Hf	337.3 (2.2)	198Au (214.8)	341.6 (7.0)	140La (5097.9)
333.3 (2.1)	105Ru (143.2)	337.4 (1.3)	188Re (63.6)	341.7 (1.0)	170Tm (204.5)
333.3 (57.6)	196Pt (356.1)	337.4 (<0.1)	152Eu (89.8)	341.7 (1.5)	188Re (63.6)
333.3 (<0.1)	152Eu (89.8)	337.5	177Hf	341.7 (2.9)	167Er (207.8)
333.4 (<0.1)	177Lu (150.4)	337.5 (<0.1)	200Hg (367.9)	341.7 (2.0)	176Lu (71.5)
333.4 (<0.1)	202Hg (439.5)	337.5 (0.2)	152Eu (89.8)	341.7 (0.5)	158Gd (181.9)
333.5	128I	337.6	94Nb	341.7 (0.2)	163Dy (351.1)
333.5 (0.5)	188Re (63.6)	337.6 (0.8)	114In (311.7)	341.8 (0.3)	77Se (238.9)

Table 1. CAPTURE γ 's - energy sorted (cont.)

E_{γ} key ($\times 10^7$)	Nucleus (Strongest γ)	E_{γ} key ($\times 10^7$)	Nucleus (Strongest γ)	E_{γ} key ($\times 10^7$)	Nucleus (Strongest γ)
341.9 (52.8)	49Ti (1381.5)	345.8 (<0.1)	158Gd (181.9)	349.7 (<0.1)	158Gd (181.9)
341.9 (0.2)	124Sb (1884.0)	345.8 (0.2)	158Gd (108.2)	349.8 (0.7)	158Gd (181.9)
342.1 (<0.1)	198Au (181.9)	345.9 (<0.3)	152Eu (89.8)	349.8 (3.4)	248Cm (145.3)
342.2 (<0.1)	200Hg (367.9)	345.9 (0.8)	105Sm (334.0)	349.9 (1.0)	182Ta (270.8)
342.4 (<0.1)	152Eu (89.8)	346.0 (<0.1)	233Th (3473.0)	349.9 (<0.1)	152Eu (89.8)
342.5 (<0.1)	200Hg (200.4)	346.2 (0.4)	152Eu (89.8)	349.9 (0.4)	198Au (214.8)
342.6 (<0.1)	143Nd (742.1)	346.2 (31.8)	188Re (63.6)	350.1 (<0.1)	152Eu (89.8)
342.6 (0.1)	150Sm (334.0)	346.2 (0.4)	188Au (214.8)	350.1 (5.4)	170Ce (499.8)
342.8 (1.1)	110Ag (198.7)	346.3 (0.6)	103Ru (174.0)	350.1 (<0.1)	110Ag (198.7)
342.8 (4.1)	170Tm (204.5)	346.3 (<0.1)	147Nd (314.7)	350.2 (2.4)	153Sm (127.3)
342.9 (<0.1)	185Os (6588.0)	346.3 (<0.1)	152Eu (89.8)	350.5 (0.2)	152Eu (89.8)
343.0 (0.3)	200Hg (367.9)	346.4 (<0.1)	200Hg (367.9)	350.5 (2.0)	152Eu (89.8)
343.0 (3.1)	249Cm (1408.3)	346.4 (1.0)	176Lu (150.4)	350.3 (1.8)	152Eu (89.8)
343.1 (<0.1)	152Eu (89.8)	346.5 (3.4)	176Lu (71.5)	350.4 (<0.1)	152Eu (89.8)
343.1 (1.9)	176Lu (176.6)	346.5 (<0.1)	132Ta (270.4)	350.5 (0.1)	152Eu (89.8)
343.2 (2.9)	248Cm (1408.3)	346.5 (0.2)	157Pt (5846.3)	350.5 (0.2)	152Eu (89.8)
343.2 (<0.1)	158Gd (181.9)	346.5 (43.9)	80Br (37.1)	350.6 (12.3)	198Au (214.8)
343.3 (0.1)	152Eu (89.8)	346.5 (<0.1)	187Er (207.8)	350.7 (<0.1)	152Eu (89.8)
343.3 (7.9)	103Ru (174.0)	346.7 (0.5)	158Gd (181.9)	350.9 (<0.1)	158Gd (181.9)
343.3 (0.8)	163Dy (109.2)	346.7 (<0.1)	188Re (63.6)	351.0 (0.7)	98Mo (787.4)
343.4 (<0.1)	200Hg (367.9)	346.8 (<0.1)	78Zn (174.3)	351.0 (0.8)	80Br (37.1)
343.4 (0.9)	104Rh (180.9)	346.8 (1.3)	134Cs (116.4)	351.1 (<0.1)	158Gd (181.9)
343.4 (6.3)	80Br (37.1)	346.8 (4.2)	153Dy (351.1)	351.1 (<0.4)	104Rh (180.9)
343.4 (10.2)	198Au (214.8)	347.2 (<0.1)	152Eu (89.8)	351.1 (<0.1)	160Tb (75.1)
343.5 (<0.1)	152Eu (89.8)	347.2 (0.7)	152Eu (136.7)	351.2 (0.8)	163Dy (351.1)
343.5 (<0.1)	124Te (602.4)	347.3 (4.5)	152Dy (371.7)	351.2 (<0.1)	153Sm (127.3)
343.5 (2.7)	166Ho (136.7)	347.4 (<0.1)	158Gd (181.9)	351.3 (0.1)	200Hg (367.9)
343.5 (1.4)	170Tm (204.5)	347.5 (<0.1)	158Gd (181.9)	351.3 (0.7)	187Er (207.8)
343.6 (<0.1)	152Eu (89.8)	347.6 (<0.1)	152Eu (89.8)	351.5 (1.0)	202Hg (439.5)
343.6 (3.7)	71Ge (499.8)	347.7 (1.3)	158Au (89.8)	351.5 (0.4)	72Ga (145.1)
343.7 (0.3)	188Re (63.6)	347.8 (<0.1)	158Au (116.4)	351.6 (1.9)	124Sb (176.6)
343.9 (<0.1)	158Gd (181.9)	347.8 (0.3)	152Sm (127.3)	351.6 (0.2)	174Yb (214.8)
343.9 (16.3)	64Cu (7916.0)	347.9 (15.2)	163Dy (351.1)	351.7 (0.2)	202Hg (439.5)
344.0 (0.2)	198Au (214.8)	347.9 (27.5)	240Bi (139.9)	351.7 (0.1)	233Th (3473.0)
344.1 (0.5)	114In (613.8)	347.9 (3.8)	240Bi (150.4)	351.9 (1.1)	114In (311.7)
344.2 (0.1)	78Se (371.7)	348.0 (0.1)	172Yb (127.3)	351.9 (<0.1)	152Eu (89.8)
344.3 (6.3)	163Dy (351.1)	348.0 (3.8)	172Yb (150.4)	352.0 (1.0)	139Ba (627.3)
344.4 (0.2)	152Eu (89.8)	348.2 (<0.1)	110Ag (198.7)	352.0 (0.2)	55Co (6247.4)
344.4 (10.0)	177Yb (151.6)	348.2 (<0.1)	110Ag (181.9)	352.1 (2.3)	158Gd (181.9)
344.5 (0.4)	176Lu (71.5)	348.3 (27.5)	244Tl (139.9)	352.2 (0.1)	188Re (63.6)
344.5 (14.7)	187Os (427.1)	348.3 (<0.1)	152Eu (89.8)	352.2 (0.1)	152Eu (89.8)
344.6 (<0.1)	152Eu (89.8)	348.5 (<0.1)	152Eu (89.8)	352.3 (0.3)	57Fe (763.6)
344.6 (110.6)	110Ag (198.7)	348.5 (<0.1)	152Eu (628.8)	352.3 (0.3)	96Mo (776.3)
344.7 (0.1)	152Eu (89.8)	348.6 (0.2)	152Eu (89.8)	352.3 (0.4)	92Zr (934.5)
344.7 (1281)	181	348.7 (4.0)	45Ca (174.3)	352.4 (<0.1)	200Hg (367.9)
344.7 (0.5)	188Re (63.6)	348.7 (<0.1)	68Zn (107.4)	352.4 (<0.1)	75Se (165.0)
344.8 (<0.1)	92Zr (934.5)	348.7 (0.6)	78Se (613.8)	352.5 (0.3)	152Eu (89.8)
344.8 (0.4)	134Cs (116.4)	348.7 (10.8)	187Os (427.1)	352.6 (0.1)	152Eu (89.8)
344.8 (3.7)	235U (4155.1)	348.7 (3.7)	249Cm (1408.3)	352.7 (2.4)	145Nd (852.8)
344.8 (<0.1)	152Eu (89.8)	348.8 (0.5)	188Re (63.6)	352.8 (1.5)	145Nd (175.9)
344.9 (0.4)	80Br (37.1)	348.8 (11.6)	191Os (5147.1)	352.8 (3.2)	145Nd (143.2)
345.0 (<0.1)	168Er (628.8)	348.8 (<0.1)	152Eu (89.8)	352.8 (<0.1)	168Er (628.8)
345.0 (179Hf)	179Hf (198.7)	349.0 (<0.1)	110Ag (198.7)	352.8 (0.5)	80Br (37.1)
345.0 (5.2)	198Au (214.8)	349.0 (<0.1)	177Hf (89.8)	353.0 (0.3)	152Eu (89.8)
345.0 (<0.1)	158Gd (181.9)	349.1 (<0.1)	152Eu (89.8)	353.0 (<0.1)	152Eu (89.8)
345.1 (<0.1)	152Eu (89.8)	349.1 (<0.1)	158Gd (181.9)	353.0 (1.9)	152Eu (89.8)
345.1 (6.6)	191Os (5147.1)	349.2 (1.8)	153Sm (127.3)	353.1 (2.4)	104Rh (107.4)
345.2 (<0.1)	156Gd (89.0)	349.2 (0.5)	104Rh (180.9)	353.0 (8.2)	170Ce (204.5)
345.2 (1.0)	158Gd (181.9)	349.2 (<0.1)	152Eu (89.8)	353.0 (0.6)	193Os (5276.0)
345.3 (0.1)	80Br (37.1)	349.3 (2.6)	165Dy (108.2)	353.1 (<0.1)	200Hg (367.9)
345.3 (0.1)	143Nd (742.1)	349.3 (0.1)	80Br (37.1)	353.1 (0.3)	176Lu (71.5)
345.3 (1.2)	134Cs (116.4)	349.4 (<0.1)	152Eu (89.8)	353.1 (0.2)	175Yb (89.8)
345.4 (0.1)	152Eu (89.8)	349.4 (<0.1)	158Gd (181.9)	353.1 (1.6)	152Eu (89.8)
345.4 (<0.1)	143Cs (4337.8)	349.4 (1.0)	75Se (286.6)	353.1 (0.5)	152Eu (89.8)
345.4 (3.9)	163Dy (351.1)	349.6 (2.7)	249Cm (1408.3)	353.3 (0.8)	163Dy (351.1)
345.5 (<0.1)	110Ag (198.7)	349.6 (<0.1)	153Dy (351.1)	353.4 (0.5)	152Eu (89.8)
345.6 (1.3)	80Br (37.1)	349.7 (1.3)	96Mo (776.3)	353.4 (0.2)	152Eu (89.8)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E_γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E_γ keV ($\% \gamma$)	Nucleus (Strongest γ)
353.6 (<0.1)	158Gd (181.9)	357.9 (0.3)	152Eu (89.8)	361.7 (0.1)	233Th (3473.0)
353.7 (32.9)	191Os (5147.1)	357.9 (8.6)	105Ru (143.2)	361.7 (0.3)	198Au (214.8)
353.8 (<0.1)	158Gd (181.9)	358.0 (<0.1)	110Ag (198.7)	361.8 (7.4)	86Rb (557.0)
353.8 (2.0)	249Cm (1408.3)	358.2 (<0.1)	110Ag (198.7)	361.8 (<0.1)	152Eu (89.8)
353.8 (<0.1)	152Eu (89.8)	358.2 (<0.1)	152Eu (89.8)	361.8 (<0.1)	158Gd (181.9)
353.8 (0.3)	80Br (37.1)	358.3 (<0.1)	158Gd (181.9)	361.9 (0.3)	80Br (37.1)
353.9 (3.7)	124Te (602.4)	358.4 (<0.1)	152Eu (89.8)	361.9 (0.6)	198Au (214.8)
353.9 (1.0)	190Os (186.7)	358.5 (0.8)	153Sm (127.3)	362.0 (2.9)	70Ga (508.4)
354.0 (0.2)	152Eu (89.8)	358.5 (0.3)	80Br (37.1)	362.0 (<0.1)	152Eu (89.8)
354.0 (22.0)	194Ir (371.7)	358.5 (3.1)	105Ru (143.2)	362.1 (<0.1)	64Cu (7916.0)
354.0 (0.3)	162Dy (185.0)	358.6 (0.1)	152Eu (89.8)	362.1 (3.4)	63Ni (6838.2)
354.1 (7.4)	186Re (59.0)	358.7 (1.5)	175Yb (197.9)	362.2 (0.1)	77Se (238.9)
354.1 (3.4)	56Mn (26.6)	358.7 (1.9)	190Os (186.7)	362.2 (0.4)	177Lu (150.4)
354.2 (0.3)	84Kr (881.8)	358.7 (0.9)	104Rh (180.9)	362.3 (0.4)	198Au (214.8)
354.2 (<0.1)	152Eu (89.8)	358.8 (2.7)	116In (273.0)	362.3 (12.3)	153Sm (127.3)
354.2 (26.4)	163Dy (351.1)	358.8 (0.1)	188Re (63.6)	362.5 (<0.1)	156Gd (89.0)
354.3 (1.4)	233Th (3473.0)	358.9 (<0.1)	172Yb (197.9)	362.5 (<0.1)	152Eu (89.8)
354.3 (0.6)	165Dy (108.2)	358.9 (<0.1)	152Eu (89.8)	362.5 (<0.1)	168Er (6228.8)
354.4 (1.5)	188Re (63.6)	359.0 (0.4)	110Ag (198.7)	362.5 (0.3)	163Dy (351.1)
354.4 (0.2)	152Eu (89.8)	359.0 (9.6)	163Dy (351.1)	362.7 (8.5)	188Re (63.6)
354.6 (<0.1)	178Hf (213.4)	359.0 (4.7)	103Ru (174.0)	362.7 (0.4)	198Au (214.8)
354.6 (15.3)	175Yb (197.9)	359.0 (1.5)	171Er (197.9)	362.7 (1.2)	162Lu (71.5)
354.8 (7.4)	153Sm (127.3)	359.1 (1.6)	176Lu (71.5)	362.7 (<0.1)	158Gd (181.9)
354.9 (0.2)	187W (5261.8)	359.1 (0.5)	170Tm (204.5)	362.8 (<0.1)	152Eu (89.8)
354.9 (0.2)	152Eu (89.8)	359.1 (0.5)	153Sm (127.3)	363.0 (1.6)	188Re (63.6)
354.9 (0.2)	198Au (214.8)	359.1 (<0.1)	158Gd (181.9)	363.2 (<0.1)	158Gd (181.9)
355.0 (0.6)	116Sn (1293.5)	359.2 (0.1)	152Eu (89.8)	363.3 (1.4)	114In (311.7)
355.1 (<0.1)	158Gd (181.9)	359.3 (0.8)	184W (111.2)	363.4 (<0.1)	158Gd (181.9)
355.2 (0.1)	152Eu (89.8)	359.4 (5.7)	194Ir (371.7)	363.5 (2.9)	186Re (59.0)
355.2 (0.3)	78Se (613.8)	359.4 (0.2)	152Eu (89.8)	363.5 (<0.1)	162Dy (185.0)
355.3 (3.8)	198Au (214.8)	359.4 (1.5)	153Eu (97.4)	363.7 (<0.1)	200Hg (367.9)
355.4 (8.2)	187Os (427.1)	359.5 (0.1)	156Gd (89.0)	363.7 (0.4)	184W (111.2)
355.5	94Nb (204.5)	359.5 (<0.1)	116In (273.0)	363.8 (<0.1)	76As (165.0)
355.5 (0.9)	170Tm (204.5)	359.5 (<0.1)	200Hg (367.9)	363.8 (1.2)	198Au (214.8)
355.6 (0.8)	72Ga (145.1)	359.5	169Yb (197.9)	363.8 (<0.1)	152Eu (89.8)
355.6 (0.2)	152Eu (89.8)	359.5 (0.4)	198Au (214.8)	363.9 (10.0)	177Yb (151.6)
355.6 (2.1)	186Re (59.0)	359.5 (6.8)	110Ag (198.7)	364.0	175Yb (151.6)
355.7 (2.0)	176Lu (71.5)	359.6 (<0.1)	158Gd (181.9)	364.0	179Hf (1281)
355.9 (0.2)	198Au (214.8)	359.6 (0.1)	144Nd (696.5)	364.5	1281
356.0 (<0.1)	152Eu (89.8)	359.8 (<0.1)	152Eu (89.8)	364.5 (<0.1)	152Eu (89.8)
356.1 (100.0)	196Pt (356.1)	359.9 (3.9)	176Lu (71.5)	364.5 (<0.1)	138Ba (1435.6)
356.3 (6.2)	134Cs (116.4)	360.0 (0.2)	152Eu (89.8)	364.6 (4.3)	177Lu (150.4)
356.3 (<0.1)	152Eu (89.8)	360.1 (1.7)	177Lu (150.4)	364.6 (0.2)	80Br (37.1)
356.3 (2.0)	156Gd (89.0)	360.1 (0.1)	152Eu (89.8)	364.6 (0.2)	152Eu (89.8)
356.4 (1.2)	105Ru (143.2)	360.2 (0.2)	198Au (214.8)	364.8 (0.4)	152Eu (89.8)
356.4 (<0.1)	200Hg (367.9)	360.2 (0.6)	153Sm (127.3)	364.9 (0.5)	96Mo (778.3)
356.6 (0.6)	153Sm (127.3)	360.4 (1.7)	188Re (63.6)	365.0 (0.2)	233Th (3473.0)
356.7 (0.6)	87Sr (8039.8)	360.4 (7.5)	186Re (59.0)	365.0 (2.0)	103Ru (174.0)
356.8	175Yb (197.9)	360.4 (0.2)	80Br (37.1)	365.0 (0.9)	158Gd (181.9)
356.9 (0.9)	52V (125.1)	360.5 (6.4)	182Ta (270.4)	365.1 (0.5)	153Sm (127.3)
357.0 (0.5)	46Sc (227.8)	360.6 (<0.1)	158Gd (181.9)	365.2 (1.6)	116In (273.0)
357.0 (1.1)	166Ho (136.7)	360.6 (17.0)	194Ir (371.7)	365.2 (<0.1)	98Mo (787.4)
357.1 (0.2)	177Lu (150.4)	360.6 (2.9)	142Pr (176.9)	365.3 (0.2)	152Eu (89.8)
357.1 (<0.1)	185Os (6588.0)	360.6 (6.8)	110Ag (198.7)	365.4 (4.5)	71Ge (499.8)
357.2 (2.4)	104Rh (180.9)	360.7 (0.3)	198Au (214.8)	365.4 (0.8)	198Au (214.8)
357.3 (1.2)	114In (311.7)	360.7 (0.1)	152Eu (89.8)	365.5 (<0.1)	236U (642.2)
357.3 (<0.1)	156Gd (89.0)	360.7 (<0.1)	158Gd (181.9)	365.6	172Yb (151.6)
357.4 (0.2)	80Br (37.1)	360.8 (<0.1)	76As (165.0)	365.6 (23.5)	191Os (5147.1)
357.4	177Hf (1281)	360.8 (<0.1)	156Gd (89.0)	365.8 (1.4)	114In (311.7)
357.5 (0.1)	152Eu (89.8)	360.8 (2.7)	170Tm (204.5)	365.9 (0.6)	198Au (214.8)
357.5 (0.3)	176Lu (71.5)	361.1 (21.7)	190Os (186.7)	365.9 (<0.1)	152Eu (89.8)
357.5 (1.1)	68Cu (185.9)	361.2 (0.2)	152Eu (89.8)	365.9 (2.0)	134Cs (116.4)
357.5 (0.3)	193Os (5276.0)	361.2 (1.3)	153Eu (97.4)	366.1 (0.3)	198Au (214.8)
357.7 (1.7)	186Re (59.0)	361.4 (0.3)	134Cs (116.4)	366.2 (5.5)	57Fe (7631.6)
357.7 (2.9)	249Cm (1408.3)	361.4 (<0.1)	152Eu (89.8)	366.2 (<0.1)	110Ag (198.7)
357.7	169Yb (197.9)	361.5 (0.6)	176Lu (71.5)	366.3 (<0.1)	152Eu (89.8)
357.7 (0.1)	152Eu (89.8)	361.5 (<0.1)	158Gd (181.9)	366.4 (3.0)	174Yb (176.6)
357.7 (<0.1)	160Tb (75.1)	361.5 (0.2)	162Dy (185.0)	366.5 (0.5)	152Eu (89.8)
357.7 (0.5)	165Dy (108.2)	361.7 (0.3)	49Tl (1381.5)	366.6 (<0.1)	92Zr (934.5)
357.9 (<0.1)	158Gd (181.9)	361.7 (0.2)	163Dy (351.1)	366.6 (14.0)	80Br (37.1)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)
366.7 (3.7)	249Cm (1408.3)	371.5 (<0.1)	158Gd (181.9)	376.3 (3.7)	235U (4155.1)
366.7 (0.2)	233Th (3473.0)	371.5 (8.1)	163Dy (351.1)	376.4 (0.6)	134Cs (116.4)
366.8 (1.7)	186Re (59.0)	371.6 (0.5)	96Mo (778.3)	376.4 (4.2)	72Ga (145.1)
366.9 (<0.1)	152Eu (89.8)	371.6 (<0.1)	152Eu (89.8)	376.4 (1.9)	163Dy (351.1)
367.0 (4.6)	147Nd (314.7)	371.7 (100.0)	194Ir (371.7)	376.5 (0.2)	152Eu (89.8)
367.0 (0.5)	153Sm (127.3)	371.7 (<0.1)	178Hf (213.4)	376.6 (0.1)	152Eu (89.8)
367.1 (<0.1)	110Ag (198.7)	371.8 (10.9)	166Ho (136.7)	376.6 (9.3)	187W (5261.8)
367.2 (1.2)	235U (4155.1)	371.8 (2.1)	134Cs (116.4)	376.7 (<0.1)	200Hg (367.9)
367.2 (0.1)	163Dy (351.1)	371.9 (<0.1)	152Eu (89.8)	376.7 (0.4)	184W (111.2)
367.2 (<0.1)	152Eu (89.8)	371.9 (0.3)	153Sm (127.3)	376.8 (<0.1)	200Hg (367.9)
367.4 (<0.1)	110Ag (198.7)	371.9 (<0.1)	146Nd (7110.8)	376.8 (0.9)	198Au (214.8)
367.4 (0.1)	177Hf (89.8)	372.2 (1.3)	188Re (63.6)	376.8 (1.9)	64Cu (7916.0)
367.4 (<0.1)	152Eu (89.8)	372.3 (<0.1)	152Eu (89.8)	376.8 (5.5)	185Os (6588.0)
367.4 (15.2)	177Lu (150.4)	372.4 (0.2)	162Dy (185.0)	376.8 (1.0)	188Re (63.6)
367.5 (1.5)	170Tm (204.5)	372.5 (<0.1)	152Eu (89.8)	376.8 (0.3)	152Eu (89.8)
367.5 (0.3)	166Ho (136.7)	372.5 (0.3)	80Br (37.1)	376.9 (0.6)	198Au (214.8)
367.6 (<0.1)	158Gd (181.9)	372.7 (0.6)	177Lu (150.4)	376.9 (0.6)	176Lu (71.5)
367.7 (1.2)	84Kr (881.8)	372.7 (1.3)	116In (273.0)	377.0 (<0.1)	158Gd (181.9)
367.9 (2.9)	134Cs (116.4)	372.7 (2.2)	170Tm (204.5)	377.2 (<0.1)	158Dy (181.9)
367.9 (<0.1)	114Cd (1660.3)	372.8 (<0.1)	152Eu (89.8)	377.2 (4.1)	182Ta (270.4)
367.9 (100.0)	200Hg (367.9)	372.8 (0.4)	150Sm (334.0)	377.3 (<0.1)	152Eu (89.8)
368.0 (0.4)	72Ga (145.1)	372.9 (1.1)	153Sm (127.3)	377.3 (4.4)	134Cs (116.4)
368.1 (1.3)	198Au (214.8)	372.9 (0.9)	198Au (214.8)	377.4 (0.5)	80Br (37.1)
368.3 (1.5)	170Tm (204.5)	373.0 (<0.1)	158Gd (181.9)	377.5 (<0.1)	172Yb (6588.0)
368.3 (1.2)	153Sm (127.3)	373.2 (0.4)	151Nd (4487.8)	377.5 (4.0)	75Se (286.6)
368.4 (0.8)	176Lu (71.5)	373.2 (0.3)	198Au (214.8)	377.6 (0.1)	152Eu (89.8)
368.6 (0.4)	116In (273.0)	373.3 (<0.1)	116In (273.0)	377.6 (0.8)	198Au (214.8)
368.6 (<0.1)	143Nd (742.1)	373.4 (0.1)	152Eu (89.8)	377.7 (<0.1)	150Sm (334.0)
368.7 (1.1)	77Se (238.9)	373.5 (0.8)	186Re (59.0)	377.8 (0.4)	170Tm (204.5)
368.7 (0.2)	165Dy (108.2)	373.6 (0.6)	80Br (37.1)	377.8 (0.7)	77Se (238.9)
368.7 (<0.1)	152Eu (89.8)	373.6 (0.4)	198Au (214.8)	377.8 (1.0)	142Pr (176.9)
368.8 (<0.1)	185Os (6588.0)	373.6 (0.2)	72Ga (145.1)	377.8 (4.3)	114In (311.7)
368.8 (<0.1)	158Gd (181.9)	373.7 (<0.1)	152Eu (89.8)	378.0 (<0.1)	177Lu (150.4)
368.9 (0.3)	152Eu (89.8)	373.7 (0.7)	235U (4155.1)	378.1 (<0.1)	110Ag (198.7)
369.0 (0.5)	188Re (63.6)	373.9 (2.5)	249Cm (1408.3)	378.1 (2.2)	198Au (214.8)
369.2 (<0.1)	152Eu (89.8)	373.9 (<0.1)	103Ru (174.0)	378.1 (<0.1)	122Sb (89.8)
369.2 (1.0)	104Rh (180.9)	373.9 (1.7)	182Ta (270.4)	378.1 (<0.1)	152Eu (89.8)
369.2	169Yb	374.0 (1.0)	61Ni (7819.6)	378.2 (0.2)	92Zr (934.5)
369.3 (2.4)	163Dy (351.1)	374.1 (<0.1)	158Gd (181.9)	378.3 (<0.1)	110Ag (198.7)
369.5 (<0.1)	152Eu (89.8)	374.1 (8.8)	70Ga (508.4)	378.4 (<0.1)	152Eu (89.8)
369.6 (<0.1)	78Se (613.8)	374.1 (0.2)	116Sn (1293.5)	378.4 (5.3)	103Ru (174.0)
369.6 (0.3)	176Lu (71.5)	374.2 (1.0)	114In (311.7)	378.4 (0.3)	198Au (214.8)
369.6 (4.5)	153Sm (127.3)	374.3 (1.0)	188Re (63.6)	378.4 (12.7)	186Re (59.0)
369.7 (0.1)	80Br (37.1)	374.3 (0.2)	152Eu (89.8)	378.6 (<0.1)	110Ag (198.7)
369.7 (1.6)	96Mo (778.3)	374.4	128I	378.6	169Yb
369.9 (0.2)	116In (273.0)	374.6 (0.1)	152Eu (89.8)	378.7 (<0.1)	152Eu (89.8)
370.0 (0.2)	152Eu (89.8)	374.7 (0.8)	153Sm (127.3)	378.7 (<0.1)	160Tb (75.1)
370.1 (<0.1)	158Gd (181.9)	374.7 (0.2)	198Au (214.8)	378.8 (1.1)	235U (4155.1)
370.2 (0.7)	60Co (229.8)	374.8 (1.7)	116In (273.0)	378.9 (0.2)	152Eu (89.8)
370.2 (0.2)	152Eu (89.8)	374.9 (<0.1)	152Eu (89.8)	378.9 (1.2)	77Se (238.9)
370.4 (<0.1)	158Gd (181.9)	374.9 (4.8)	104Rh (180.9)	378.9 (0.8)	160Tb (75.1)
370.4 (0.5)	153Sm (127.3)	374.9 (0.4)	165Dy (108.2)	378.9 (3.1)	194Ir (371.7)
370.5 (0.2)	233Th (3473.0)	374.9 (11.6)	235U (4155.1)	379.0 (0.5)	147Nd (314.7)
370.5 (<0.1)	204Tl (139.9)	375.2 (4.6)	56Mn (26.6)	379.0 (<0.1)	152Eu (89.8)
370.5 (1.2)	80Br (37.1)	375.2 (<0.1)	152Eu (89.8)	379.1 (<0.1)	76As (165.0)
370.6 (<0.1)	143Nd (742.1)	375.3 (<0.1)	114Cd (1660.3)	379.1 (2.0)	153Sm (127.3)
370.6 (0.7)	188Re (63.6)	375.4 (0.5)	193Os (5276.0)	379.2 (0.6)	188Re (63.6)
370.6 (0.2)	152Eu (89.8)	375.4	179Hf	379.3 (0.3)	152Eu (89.8)
370.7 (2.2)	170Tm (204.5)	375.5 (6.0)	188Re (63.6)	379.5 (<0.1)	177Lu (150.4)
370.7 (<0.1)	158Gd (181.9)	375.7 (<0.1)	156Gd (89.0)	379.5 (0.2)	168Er (6228.8)
370.9 (5.5)	198Au (214.8)	375.7 (<0.1)	152Eu (89.8)	379.6 (3.0)	116In (273.0)
371.0 (0.3)	152Eu (89.8)	375.8 (0.2)	80Br (37.1)	379.6 (0.3)	92Zr (934.5)
371.0 (1.9)	104Rh (180.9)	375.8	175Yb	379.7 (0.3)	72Ga (145.1)
371.1 (0.8)	235U (4155.1)	375.9 (<0.1)	158Gd (181.9)	380.0 (0.8)	202Hg (439.5)
371.2 (0.1)	150Sm (234.0)	376.0 (<0.1)	152Eu (89.8)	380.0 (20.0)	235U (4155.1)
371.2 (0.1)	168Er (6228.8)	376.0 (8.1)	116In (273.0)	380.0 (<0.1)	200Hg (367.9)
371.2 (<0.1)	152Eu (89.8)	376.0 (0.1)	198Au (214.8)	380.0 (0.7)	165Dy (108.2)
371.3 (26.1)	190Os (186.7)	376.2 (<0.1)	160Tb (75.1)	380.1 (1.8)	110Ag (198.7)
371.3 (2.3)	191Os (5147.1)	376.2 (<0.1)	152Eu (89.8)	380.1 (0.3)	190Os (186.7)
371.5 (2.4)	197Pt (5846.3)				

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV (%I γ)	Nucleus (Strongest γ)	E γ keV (%I γ)	Nucleus (Strongest γ)	E γ keV (%I γ)	Nucleus (Strongest γ)
380.2 (<0.1)	168Er (6228.8)	385.1 (<0.1)	158Gd (181.9)	389.9 (3.4)	147Nd (314.7)
380.2 (0.6)	184W (111.2)	385.1 (28.4)	116In (273.0)	390.2 (10.2)	153Sm (127.3)
380.3 (4.1)	103Ru (174.0)	385.2	94Nb	390.3 (<0.1)	110Ag (198.7)
380.3 (<0.1)	158Gd (181.9)	385.2 (0.2)	188Os (155.0)	390.3 (0.2)	188Os (155.0)
380.4 (1.0)	104Rh (180.9)	385.3 (<0.1)	152Eu (89.8)	390.3 (3.3)	187W (5261.8)
380.5 (0.2)	98Mo (787.4)	385.3 (2.9)	104Rh (180.9)	390.3 (0.2)	152Eu (89.8)
380.5 (<0.1)	76As (165.0)	385.4	128I	390.4 (3.3)	197Pt (5846.3)
380.5 (<0.1)	152Eu (89.8)	385.6 (1.4)	80Br (37.1)	390.5	124Sb
380.7 (0.2)	156Gd (89.0)	385.7 (1.0)	163Dy (351.1)	390.6 (0.7)	182Ta (270.4)
380.7 (0.1)	162Dy (185.0)	385.7 (0.2)	177Lu (150.4)	390.7 (<0.1)	152Eu (89.8)
380.7 (1.5)	186Re (59.0)	385.7 (56.2)	66Cu (185.9)	390.7 (7.2)	72Ga (145.1)
380.8 (<0.1)	152Eu (89.8)	385.8 (0.2)	78Se (613.8)	390.8 (1.7)	77Se (238.9)
380.8 (1.1)	145Nd (852.8)	386.0 (5.7)	165Dy (108.2)	390.9 (25.4)	186Re (59.0)
381.0 (40.4)	198Au (214.8)	386.0 (0.3)	153Sm (127.3)	390.9 (<0.1)	152Eu (89.8)
381.1 (1.0)	80Br (37.1)	386.0 (1.9)	163Dy (351.1)	391.1 (0.6)	198Au (214.8)
381.2 (7.6)	110Ag (198.7)	386.1 (<0.1)	152Eu (89.8)	391.1 (<0.1)	152Eu (89.8)
381.3 (<0.1)	158Gd (181.9)	386.2 (1.7)	191Os (5147.1)	391.2 (15.7)	60Co (229.8)
381.4 (1.3)	198Au (214.8)	386.2 (2.6)	188Re (63.6)	391.2 (1.4)	104Rh (180.9)
381.4 (<0.1)	163Dy (351.1)	386.2	124Sb	391.2 (24.0)	194Ir (371.7)
381.4 (0.3)	152Eu (89.8)	386.2 (0.6)	162Dy (185.0)	391.2 (0.6)	151Nd (4487.8)
381.5 (0.9)	134Cs (116.4)	386.3 (<0.1)	98Mo (787.4)	391.3 (1.3)	238Np (5352.0)
381.6 (<0.1)	158Gd (181.9)	386.3 (0.7)	186Re (59.0)	391.3 (15.3)	71Ge (499.8)
381.8 (0.5)	188Re (63.6)	386.3 (<0.1)	158Gd (181.9)	391.3 (<0.1)	78Se (613.8)
381.8 (0.8)	176Lu (71.5)	386.4 (<0.1)	152Eu (89.8)	391.3 (<0.1)	177Lu (150.4)
381.9 (<0.1)	150Sm (334.0)	386.5 (10.5)	163Dy (351.1)	391.3 (8.6)	163Dy (351.1)
382.0 (1.0)	65Ni (6034.0)	386.5 (0.9)	167Er (207.8)	391.4 (1.4)	114In (311.7)
382.1 (0.1)	152Eu (89.8)	386.6 (<0.1)	156Gd (89.0)	391.5 (1.2)	134Cs (116.4)
382.1 (0.5)	198Au (214.8)	386.6 (<0.1)	110Ag (198.7)	391.5 (0.1)	152Eu (89.8)
382.1 (2.4)	182Ta (270.4)	386.8 (<0.1)	158Gd (181.9)	391.9 (4.1)	166Hu (136.7)
382.2 (0.3)	84Kr (881.8)	386.9 (<0.1)	110Ag (198.7)	391.9 (<0.1)	152Eu (89.8)
382.2 (0.4)	80Br (37.1)	386.9 (2.7)	134Cs (116.4)	392.0 (0.7)	193Os (5276.0)
382.4 (<0.1)	152Eu (89.8)	387.0 (1.2)	174Yb (176.6)	392.0 (<0.1)	158Gd (181.9)
382.5 (0.6)	193Os (5276.0)	387.0 (0.3)	198Au (214.8)	392.0	124Sb
382.6 (<0.1)	158Gd (181.9)	387.1 (<0.1)	158Gd (181.9)	392.1	175Yb
382.7 (2.2)	185Os (6588.0)	387.2 (<0.1)	152Eu (89.8)	392.2 (<0.1)	152Eu (89.8)
382.8 (2.3)	184W (111.2)	387.3 (<0.1)	168Er (6228.8)	392.3 (0.2)	46Sc (227.8)
382.8 (0.2)	166Ho (136.7)	387.3 (0.1)	200Hg (367.9)	392.5 (<0.1)	235U (4155.1)
382.9 (2.7)	193Os (5276.0)	387.4 (<0.1)	156Gd (89.0)	392.5 (2.4)	176Lu (71.5)
382.9 (1.9)	104Rh (180.9)	387.5 (<0.1)	185Os (6588.0)	392.5 (<0.1)	200Hg (367.9)
383.0 (<0.1)	158Gd (181.9)	387.6 (0.1)	152Eu (89.8)	392.5 (<0.1)	152Eu (89.8)
383.1 (<0.1)	152Eu (89.8)	387.7 (0.2)	116In (273.0)	392.6 (<0.1)	143Nd (742.1)
383.1 (<0.1)	158Gd (181.9)	387.8 (<0.1)	158Gd (181.9)	392.6 (<0.1)	158Gd (181.9)
383.1 (3.1)	198Au (214.8)	388.0 (<0.1)	110Ag (198.7)	392.6 (0.4)	163Dy (351.1)
383.1 (0.4)	177Lu (150.4)	388.1 (1.8)	202Hg (439.5)	392.7 (1.9)	165Dy (108.2)
383.2 (0.2)	188Os (155.0)	388.2 (0.1)	152Eu (89.8)	392.7 (1.3)	239Pu (4821.8)
383.4 (<0.1)	200Hg (367.9)	388.3 (1.1)	170Tm (204.5)	392.8 (0.1)	80Br (37.1)
383.6	169Yb	388.3 (33.1)	87Sr (8039.8)	392.8 (0.5)	162Dy (185.0)
383.6 (16.0)	194Ir (371.7)	388.3 (0.4)	80Br (37.1)	393.0 (24.2)	235U (4155.1)
383.8 (0.4)	163Dy (351.1)	388.4 (<0.1)	124Te (602.4)	393.0 (17.3)	70Ga (508.4)
383.9 (0.5)	134Cs (116.4)	388.4	81Se	393.0 (0.1)	152Eu (89.8)
384.0 (1.2)	184W (111.2)	388.5 (<0.1)	152Eu (89.8)	393.1 (5.9)	163Dy (351.1)
384.1 (3.1)	204Tl (139.9)	388.5 (<0.1)	158Gd (181.9)	393.1 (1.4)	196Pt (356.1)
384.2 (22.8)	170Tm (204.5)	388.5 (7.1)	103Ru (174.0)	393.1 (1.2)	116In (273.0)
384.2 (<0.1)	152Eu (89.8)	388.7 (4.3)	194Ir (371.7)	393.2 (0.4)	170Tm (204.5)
384.2 (0.8)	114In (311.7)	388.8 (0.2)	158Gd (181.9)	393.3 (12.8)	72Ga (145.1)
384.3 (0.5)	176Lu (71.5)	388.8 (13.9)	147Nd (314.7)	393.3 (0.2)	202Hg (439.5)
384.3 (0.8)	72Ga (145.1)	388.9 (1.0)	104Rh (180.9)	393.4 (2.2)	177Lu (150.4)
384.4 (0.7)	134Cs (116.4)	389.1 (<0.1)	233Th (3473.0)	393.5 (5.9)	193Os (5276.0)
384.4 (1.8)	142Pr (176.9)	389.1 (0.8)	153Sm (127.3)	393.5 (<0.1)	152Eu (89.8)
384.4 (8.8)	116In (273.0)	389.2 (3.9)	140La (5097.9)	393.5 (<0.1)	110Ag (198.7)
384.5	124Sb	389.2 (3.0)	80Br (37.1)	393.6 (<0.1)	156Gd (89.0)
384.6	210Bi	389.2 (0.2)	198Au (214.8)	393.6 (1.7)	153Sm (127.3)
384.6 (0.1)	152Eu (89.8)	389.3 (<0.1)	152Eu (89.8)	393.6 (<0.1)	152Eu (89.8)
384.7 (7.4)	64Cu (7916.0)	389.4	175Yb	393.7 (2.8)	198Au (214.8)
384.8 (1.5)	153Sm (127.3)	389.5 (2.0)	188Re (63.6)	393.8 (<0.1)	143Ce (4337.8)
384.9 (0.9)	147Nd (314.7)	389.5	169Yb	393.8 (0.4)	198Au (214.8)
384.9 (<0.1)	152Eu (89.8)	389.7 (68.6)	163Dy (351.1)	394.0 (1.0)	134Cs (116.4)
384.9 (1.8)	77Se (238.9)	389.8 (<0.1)	204Tl (139.9)	394.1 (0.6)	188Re (63.6)
384.9 (0.2)	233Th (3473.0)	389.8 (<0.1)	152Eu (89.8)	394.1 (5.6)	194Ir (371.7)
384.9 (19.6)	187Os (427.1)	389.8 (<0.1)	158Gd (181.9)	394.4 (<0.1)	152Eu (89.8)

Table I. CAPTURE γ 's - energy sorted (cont.)

Ex keV (χ_{17})	Nucleus (Strongest γ)	Ex keV (χ_{17})	Nucleus (Strongest γ)	Ex keV (χ_{17})	Nucleus (Strongest γ)
394.6 (5.0)	167Er (207.8)	399.7 (<0.1)	200Hg (367.9)	403.6 (<0.1)	178Hf (213.4)
394.6 (<0.1)	158Gd (181.9)	399.7 (0.1)	152Eu (89.8)	403.7 (3.3)	142Pr (176.9)
394.7 (81.5)	161Gd (5280.0)	399.8 (2.6)	46Sc (227.8)	403.8 (0.5)	92Zr (934.5)
394.7 (0.7)	116In (273.0)	399.8	172Yb	403.8 (0.6)	188Re (63.6)
394.8 (<0.1)	152Eu (89.8)	399.8 (0.3)	165Dy (108.2)	404.0	169Yb
395.0 (<0.1)	152Eu (89.8)	399.8	81Se	404.0 (0.7)	177Lu (150.4)
395.2 (0.4)	64Cu (7916.0)	399.8 (0.1)	80Br (37.1)	404.0 (1.6)	197Pt (5846.3)
395.4	177Hf	399.9 (0.3)	98Mo (787.4)	404.0 (<0.1)	152Eu (89.8)
395.5 (0.8)	198Au (214.8)	399.9 (0.5)	174Yb (176.6)	404.1 (5.8)	194Ir (371.7)
395.7 (0.1)	80Br (37.1)	400.0 (0.5)	188Re (63.6)	404.2 (28.0)	153Sm (127.3)
395.8 (<0.1)	152Eu (89.8)	400.2 (6.1)	249Cm (1408.3)	404.2 (0.4)	198Au (214.8)
395.9 (0.3)	198Au (214.8)	400.2 (7.6)	170Tm (204.5)	404.3 (1.7)	104Rh (180.9)
395.9 (<0.1)	187Os (427.1)	400.3 (<0.1)	152Eu (89.8)	404.4 (0.1)	152Eu (89.8)
396.0 (<0.1)	200Hg (367.9)	400.3 (<0.1)	124Te (602.4)	404.7 (<0.1)	152Eu (89.8)
396.0 (7.5)	204Tl (139.9)	400.4 (7.3)	249Cm (1408.3)	404.9 (<0.1)	152Eu (89.8)
396.1 (0.1)	152Eu (89.8)	400.4 (<0.1)	202Hg (439.5)	404.9 (<0.1)	200Hg (367.9)
396.3 (0.4)	165Dy (108.2)	400.5 (0.3)	198Au (214.8)	405.0	179Hf
396.3 (<0.1)	158Gd (181.9)	400.6 (8.7)	249Cm (1408.3)	405.1 (<0.1)	96Mo (778.3)
396.4 (0.2)	105Ru (143.2)	400.6 (0.5)	153Sm (127.3)	405.1	175Yb
396.4 (<0.1)	110Ag (198.7)	400.7 (0.2)	80Br (37.1)	405.2 (<0.1)	236U (642.2)
396.4 (1.0)	163Dy (351.1)	400.8 (<0.1)	152Eu (89.8)	405.2 (1.7)	238Np (5352.0)
396.4 (0.6)	177Lu (150.4)	400.8 (98.0)	187Os (427.1)	405.4 (0.1)	152Eu (89.8)
396.4 (1.1)	116In (273.0)	400.8 (6.7)	249Cm (1408.3)	405.5 (1.3)	134Cs (116.4)
396.5 (6.5)	153Sm (127.3)	400.9 (6.2)	194Ir (371.7)	405.5 (0.3)	233Th (3473.0)
396.5 (0.4)	168Er (6228.8)	400.9	175Yb	405.6 (<0.1)	75Se (286.6)
396.5 (<0.1)	158Gd (181.9)	400.9 (0.6)	193Os (5276.0)	405.7 (0.7)	114In (311.7)
396.5 (1.5)	186Re (59.0)	401.0	179Hf	405.7 (0.4)	193Os (5276.0)
396.6 (7.9)	194Ir (371.7)	401.1 (<0.1)	156Gd (89.0)	405.8 (0.4)	198Au (214.8)
396.6 (0.3)	188Re (63.6)	401.2 (0.6)	151Nd (4487.8)	406.1 (0.3)	77Se (238.9)
396.7 (<0.1)	152Eu (89.8)	401.2 (0.7)	188Re (63.6)	406.2 (1.0)	72Ga (145.1)
396.9 (1.9)	182Ta (270.4)	401.3 (<0.1)	76As (165.0)	406.3 (0.1)	152Eu (89.8)
396.9 (4.7)	140La (5097.9)	401.3 (0.8)	186Re (59.0)	406.3 (2.3)	182Ta (270.4)
397.0 (<0.1)	68Zn (1077.4)	401.3 (<0.1)	152Eu (89.8)	406.4 (0.6)	80Br (37.1)
397.0 (<0.1)	200Hg (367.9)	401.3 (0.2)	143Nd (742.1)	406.4 (0.4)	177Lu (150.4)
397.0 (0.2)	152Eu (89.8)	401.4 (0.8)	193Os (5276.0)	406.4 (0.7)	150Sm (334.0)
397.1 (<0.1)	158Gd (181.9)	401.6 (7.6)	166Ho (136.7)	406.4 (<0.1)	110Ag (198.7)
397.2 (1.0)	104Rh (180.9)	401.6 (3.4)	249Cm (1408.3)	406.5 (<0.1)	96Mo (778.3)
397.2 (0.8)	114In (311.7)	401.7 (0.6)	177Lu (150.4)	406.5 (3.4)	188Re (63.6)
397.3 (1.2)	77Se (238.9)	401.8 (0.1)	152Eu (89.8)	406.5	175Yb
397.3 (<0.1)	152Eu (89.8)	401.9 (17.1)	163Dy (351.1)	406.6 (<0.1)	143Nd (742.1)
397.4 (4.4)	190Os (186.7)	402.0	210Bi	406.7 (0.4)	167Er (207.8)
397.7 (<0.1)	152Eu (89.8)	402.1 (<0.1)	152Eu (89.8)	406.7 (21.0)	185Os (6588.0)
397.8 (<0.1)	200Hg (367.9)	402.2 (<0.1)	158Gd (181.9)	406.8 (1.4)	134Cs (116.4)
397.8 (1.1)	105Ru (143.2)	402.2 (0.1)	98Mo (787.4)	406.8 (<0.1)	152Eu (89.8)
397.8 (1.1)	170Tm (204.5)	402.3 (0.3)	116In (273.0)	406.9 (1.8)	186Re (59.0)
397.9 (<0.1)	158Gd (181.9)	402.4 (0.6)	134Cs (116.4)	407.2 (0.2)	156Gd (89.0)
397.9 (<0.1)	152Eu (89.8)	402.5 (0.1)	233Th (3473.0)	407.2 (2.7)	190Os (186.7)
397.9 (50.2)	153Sm (127.3)	402.6 (40.0)	182Ta (270.4)	407.3 (2.6)	153Sm (127.3)
398.0 (0.2)	156Gd (89.0)	402.7 (1.5)	46Sc (227.8)	407.3 (<0.1)	152Eu (89.8)
398.1 (0.7)	198Au (214.8)	402.8 (1.6)	176Lu (71.5)	407.4 (10.0)	194Ir (371.7)
398.2 (0.3)	200Hg (367.9)	402.8 (2.4)	72Ga (145.1)	407.5 (2.9)	190Os (186.7)
398.3 (<0.1)	152Eu (89.8)	402.9	124Sb	407.6 (3.3)	163Dy (351.1)
398.4 (<0.1)	76As (165.0)	402.9 (<0.1)	188Os (155.0)	407.8 (<0.1)	124Te (602.4)
398.4 (0.6)	198Au (214.8)	402.9 (0.5)	198Au (214.8)	407.8 (0.1)	162Dy (185.0)
398.6	128I	403.0 (1.5)	150Sm (334.0)	407.9 (<0.1)	158Gd (181.9)
398.6 (<0.1)	200Hg (367.9)	403.0 (<0.1)	152Eu (89.8)	408.1 (1.9)	134Cs (116.4)
398.7	177Hf	403.1 (0.6)	165Dy (108.2)	408.1 (2.8)	72Ga (145.1)
398.7 (<0.1)	152Eu (89.8)	403.1 (33.8)	103Ru (174.0)	408.2 (1.0)	105Ru (143.2)
398.8 (<0.1)	158Gd (181.9)	403.1 (1.1)	134Cs (116.4)	408.3 (3.3)	170Tm (204.5)
398.9 (0.8)	153Sm (127.3)	403.1 (0.4)	177Lu (150.4)	408.3 (<0.1)	152Eu (89.8)
399.0 (1.4)	167Er (207.8)	403.1 (1.0)	167Er (207.8)	408.4 (<0.1)	158Gd (181.9)
399.0 (8.6)	163Dy (351.1)	403.1 (0.5)	114In (311.7)	408.5 (1.9)	104Rh (180.9)
399.0 (5.7)	193Os (5276.0)	403.2 (9.9)	191Os (5147.1)	408.5 (0.3)	80Br (37.1)
399.1 (0.4)	182Ta (270.4)	403.2 (2.7)	198Au (214.8)	408.6 (0.1)	200Hg (367.9)
399.2 (<0.1)	158Gd (181.9)	403.2 (<0.1)	158Gd (181.9)	408.7 (0.3)	176Lu (71.5)
399.3 (1.6)	235U (4155.1)	403.3	177Hf	408.8 (<0.1)	158Gd (181.9)
399.4 (<0.1)	152Eu (89.8)	403.5 (0.2)	152Eu (89.8)	408.8 (0.1)	152Eu (89.8)
399.4 (<0.1)	143Nd (742.1)	403.5 (0.4)	143Nd (742.1)	408.8 (<0.1)	110Ag (198.7)
399.4 (100.0)	173Yb (399.4)	403.5 (<0.1)	156Gd (89.0)	408.8	210Bi
399.5 (0.6)	114In (311.7)	403.5 (0.4)	163Dy (351.1)	408.9 (<0.1)	158Gd (181.9)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\% \gamma$)	Nucleus (Strongest γ)	E_{γ} keV ($\% \gamma$)	Nucleus (Strongest γ)	E_{γ} keV ($\% \gamma$)	Nucleus (Strongest γ)
409.0 (0.7)	80Br (37.1)	415.0 (46.1)	153Sm (127.3)	420.6 (8.1)	104Rh (180.9)
409.1 (0.1)	152Eu (89.8)	415.0 (5.3)	165Dy (108.2)	420.8 (0.2)	1900s (186.7)
409.4 (1.4)	104Rh (180.9)	415.0 (<0.1)	152Eu (89.8)	420.8 (3.7)	194Ir (371.7)
409.6 (<0.1)	200Hg (367.9)	415.0 (0.2)	144Nd (696.5)	420.8 (1.9)	165Dy (108.2)
409.7 (<0.1)	110Ag (198.7)	415.1 (14.3)	1630y (351.1)	420.9	1281
409.7 (6.3)	174Yb (176.6)	415.1 (2.3)	249Cm (1408.3)	421.0 (<0.1)	152Eu (89.8)
409.8 (0.3)	163Dy (351.1)	415.4 (<0.1)	152Eu (89.8)	421.0 (0.5)	134Cs (116.4)
409.8 (3.1)	138Ba (1435.6)	415.5 (0.8)	162Dy (185.0)	421.2 (<0.1)	158Gd (181.9)
409.9 (<0.1)	143Nd (742.1)	415.5 (<0.1)	200Hg (367.9)	421.2 (0.9)	80Br (37.1)
410.0 (4.3)	70Ga (508.4)	415.6 (0.8)	151Nd (4487.8)	421.3 (<0.1)	152Eu (89.8)
410.0 (2.1)	147Nd (314.7)	415.9 (1.0)	170Tm (204.5)	421.3 (0.2)	198Au (214.8)
410.1 (<0.1)	158Gd (181.9)	415.9 (0.4)	72Ga (145.1)	421.4 (15.7)	1870s (427.1)
410.1 (<0.1)	152Eu (89.8)	415.9 (0.9)	142Pr (176.9)	421.6 (30.0)	86Rb (557.0)
410.3	124Sb	415.9 (<0.1)	110Ag (198.7)	421.6 (0.5)	134Cs (116.4)
410.3 (7.4)	194Ir (371.7)	416.0 (<0.1)	152Eu (89.8)	421.7 (0.5)	105Ru (143.2)
410.3 (<0.1)	152Eu (89.8)	416.1 (<0.1)	1900s (186.7)	421.9 (74.3)	1630y (351.1)
410.4 (2.3)	116In (273.0)	416.2 (<0.1)	202Hg (439.5)	422.0 (<0.1)	152Eu (89.8)
410.5 (1.0)	176Lu (71.5)	416.4 (<0.1)	158Gd (181.9)	422.0 (18.4)	249Cm (1408.3)
410.6 (0.6)	188Re (63.6)	416.4 (0.1)	168Er (6228.8)	422.0 (0.2)	156Gd (89.0)
410.7 (<0.1)	152Eu (89.8)	416.7 (1.6)	116Sn (1293.5)	422.1 (0.6)	80Br (37.1)
410.9 (<0.1)	158Gd (181.9)	416.8 (0.7)	182Ta (270.4)	422.2 (4.3)	116In (273.0)
410.9 (0.1)	58Fe (810.5)	416.9 (1.7)	147Nd (314.7)	422.2 (<0.1)	110Ag (198.7)
411.0 (<0.1)	152Eu (89.8)	416.9 (11.8)	185W (4573.6)	422.2	122Sb
411.2 (2.5)	186Re (59.0)	417.0 (2.6)	167Er (207.8)	422.3	172Yb
411.3 (0.1)	152Eu (89.8)	417.1 (0.1)	152Eu (89.8)	422.3	124Sb
411.3 (3.6)	72Ga (145.1)	417.1 (<0.1)	158Gd (181.9)	422.3 (0.8)	168Er (6228.8)
411.4 (0.4)	98Mo (787.4)	417.1 (<0.1)	110Ag (198.7)	422.3 (<0.1)	152Eu (89.8)
411.5 (29.3)	170Tm (204.5)	417.1 (1.0)	204Tl (139.9)	422.5 (1.6)	235U (4155.7)
411.7 (<0.1)	152Eu (89.8)	417.1 (1.1)	199Au (493.5)	422.6 (<0.1)	152Eu (89.8)
411.7 (6.5)	1650y (108.2)	417.1 (0.3)	153Sm (127.3)	422.6 (44.9)	140La (5097.9)
411.8 (<0.1)	1850s (6588.0)	417.3 (1.3)	134Cs (116.4)	422.7 (2.1)	176Lu (71.5)
411.8 (1.0)	163Dy (351.1)	417.4 (1.8)	199Au (493.5)	422.7 (<0.1)	202Hg (439.5)
412.0 (<0.1)	110Ag (198.7)	417.5	169Yb	422.7 (0.3)	153Sm (127.3)
412.0 (28.8)	55Fe (9297.8)	417.7 (<0.1)	152Eu (89.8)	422.8 (<0.1)	204Tl (139.9)
412.2 (0.2)	152Eu (89.8)	417.7 (<0.1)	1850s (6588.0)	422.8 (<0.1)	152Eu (89.8)
412.3 (<0.1)	158Gd (181.9)	417.8 (0.7)	170Tm (204.5)	422.8 (0.3)	198Au (214.8)
412.3 (2.5)	235U (4155.1)	417.8 (0.1)	158Gd (181.9)	422.9 (3.8)	249Cm (1408.3)
412.4 (24.5)	1870s (427.1)	417.9 (2.1)	103Ru (174.0)	423.0	172Yb
412.4 (0.6)	68Zn (1077.4)	418.1 (1.7)	249Cm (1408.3)	423.1 (<0.1)	152Eu (89.8)
412.4 (4.2)	114In (311.7)	418.1 (0.5)	198Au (214.8)	423.1 (<0.1)	236U (642.2)
412.5 (<0.1)	158Gd (181.9)	418.2 (0.3)	162Dy (185.0)	423.2	175Yb
412.5 (0.6)	134Cs (116.4)	418.2 (24.0)	194Ir (371.7)	423.2 (<0.1)	200Hg (367.9)
412.7 (<0.1)	152Eu (89.8)	418.3 (<0.1)	152Eu (89.8)	423.3 (2.2)	48Ti (983.7)
412.9 (<0.1)	156Gd (89.0)	418.4 (2.0)	186Re (59.0)	423.3 (3.1)	163Dy (351.1)
413.0 (16.8)	1910s (5147.1)	418.4 (15.5)	185W (4573.6)	423.3 (0.1)	80Br (37.1)
413.1 (0.7)	198Au (214.8)	418.5 (1.0)	204Tl (139.9)	423.3 (1.5)	182Ta (270.4)
413.2 (3.1)	186Re (59.0)	418.5 (<0.1)	158Gd (181.9)	423.4	169Yb
413.3 (0.9)	198Au (214.8)	418.6 (8.9)	198Au (214.8)	423.6 (1.5)	188Re (63.6)
413.3 (0.2)	152Eu (89.8)	418.6 (1.1)	105Ru (143.2)	423.6 (0.2)	165Dy (108.2)
413.4 (1.0)	145Nd (852.8)	418.8 (4.4)	184W (111.2)	423.6 (0.1)	152Eu (89.8)
413.5 (0.4)	1930s (5276.0)	419.0 (0.0)	198Au (214.8)	423.6 (<0.1)	110Ag (198.7)
413.6 (0.6)	80Br (37.1)	419.0 (0.5)	77Se (238.9)	423.7 (9.8)	187W (5261.8)
413.6 (9.5)	235U (4155.1)	419.1	124Sb	423.7 (<0.1)	158Gd (181.9)
413.6 (<0.1)	152Eu (89.8)	419.3 (0.2)	80Br (37.1)	423.8 (0.6)	72Ga (145.1)
413.6 (<0.1)	158Gd (181.9)	419.3 (1.5)	84Kr (881.8)	423.8 (7.0)	1910s (5147.1)
413.7 (13.4)	147Nd (314.7)	419.3 (<0.1)	152Eu (89.8)	423.9 (0.4)	152Eu (89.8)
413.7 (8.6)	148Sm (550.0)	419.4	169Yb	423.9 (<0.1)	96Mo (778.3)
413.7 (4.8)	177Lu (150.4)	419.5 (21.5)	52V (125.1)	423.9 (0.6)	193Au (214.8)
413.8 (2.7)	153Sm (127.3)	419.5 (8.7)	1850s (6588.0)	424.0 (<0.1)	1900s (186.7)
413.9 (1.4)	188Re (63.6)	419.7 (1.7)	176Lu (71.5)	424.1 (<0.1)	152Eu (89.8)
414.2 (1.3)	80Br (37.1)	419.8 (0.2)	200Hg (367.9)	424.3	124Sb
414.3 (1.3)	1930s (5276.0)	419.9 (0.2)	153Sm (127.3)	424.4 (0.6)	184W (111.2)
414.4 (<0.1)	200Hg (367.9)	419.9 (<0.1)	158Gd (181.9)	424.4 (<0.1)	152Eu (89.8)
414.5 (0.2)	152Eu (89.8)	420.0 (1.6)	186Re (59.0)	424.7 (<0.1)	158Gd (181.9)
414.5 (0.5)	134Cs (116.4)	420.1 (<0.1)	152Eu (89.8)	424.7 (6.5)	170Tm (204.5)
414.5 (34.0)	194Ir (371.7)	420.2 (0.9)	188Re (63.6)	424.7 (0.3)	77Se (238.9)
414.6 (0.4)	198Au (214.8)	420.4 (1.2)	182Ta (270.4)	424.7 (15.5)	84Kr (881.8)
414.7 (<0.1)	158Gd (181.9)	420.5 (<0.1)	160Tb (75.1)	424.7 (5.7)	194Ir (371.7)
414.8 (1.4)	104Rh (180.9)	420.5 (<0.1)	150Sm (334.0)	424.7 (<0.1)	110Ag (198.7)
414.8 (0.1)	152Eu (89.8)	420.6 (<0.1)	152Eu (89.8)	424.8 (0.9)	176Lu (71.5)

Table 1. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\% \gamma$)	Nucleus (Strongest γ)	E_{γ} keV ($\% \gamma$)	Nucleus (Strongest γ)	E_{γ} keV ($\% \gamma$)	Nucleus (Strongest γ)
424.8 (0.4)	198Au (214.8)	429.8 (<0.1)	200Hg (367.9)	434.4 (10.6)	177Yb (151.6)
424.9	128I	429.8 (0.6)	114In (311.7)	434.5 (<0.1)	152Eu (89.8)
425.1 (1.7)	199Au (493.5)	429.8 (1.3)	134Cs (116.4)	434.5 (1.1)	134Cs (116.4)
425.1 (<0.1)	150Sm (334.0)	429.9 (<0.1)	158Gd (181.9)	434.5 (0.3)	98Mo (787.4)
425.1 (9.4)	204Tl (139.9)	429.9 (100.0)	169Er (429.9)	434.6 (0.1)	156Gd (89.0)
425.2 (<0.1)	158Gd (181.9)	429.9 (0.5)	202Hg (439.5)	434.6 (0.1)	96Mo (778.3)
425.3 (<0.1)	152Eu (89.8)	430.0 (1.9)	167Er (207.8)	434.6 (1.3)	114In (311.7)
425.4 (0.4)	165Dy (108.2)	430.0 (3.4)	194Ir (371.7)	434.6 (1.1)	170Tm (204.5)
425.4 (0.4)	80Br (37.1)	430.2 (16.9)	73Ge (326.0)	434.6 (<0.1)	110Ag (198.7)
425.4 (<0.1)	156Gd (89.0)	430.3	124Sb	434.7 (0.1)	152Eu (89.8)
425.4 (4.4)	176Lu (71.5)	430.3 (<0.1)	152Eu (89.8)	434.8 (2.5)	163Dy (351.1)
425.8	169Yb	430.3 (<0.1)	158Gd (181.9)	434.9 (<0.1)	158Gd (181.9)
425.9 (<0.1)	152Eu (89.8)	430.4 (0.4)	200Hg (367.9)	434.9 (12.9)	239Pu (4821.8)
426.0 (1.9)	188Re (63.6)	430.4 (6.4)	106Pd (513.0)	435.0 (2.6)	193Os (5276.0)
426.0 (0.5)	153Sm (127.3)	430.4 (0.8)	196Pt (356.1)	435.3 (3.3)	114In (311.7)
426.0 (13.5)	166Ho (136.7)	430.5 (0.7)	165Dy (108.2)	435.4 (0.1)	116Sn (1293.5)
426.0 (<0.1)	68Zn (1077.4)	430.5 (0.8)	177Lu (150.4)	435.4 (0.5)	153Sm (127.3)
426.1 (0.4)	177Lu (150.4)	430.7 (<0.1)	63Ni (6838.2)	435.5 (0.3)	158Gd (181.9)
426.2 (1.4)	178Hf (213.4)	430.8 (4.7)	238Np (5352.0)	435.6 (<0.1)	152Eu (89.8)
426.3 (1.0)	167Er (207.8)	430.9 (18.7)	197Pt (5846.3)	435.7 (6.2)	60Co (229.8)
426.3 (4.6)	140La (5097.9)	430.9 (1.2)	186Re (59.0)	435.8 (<0.1)	158Gd (181.9)
426.3 (1.4)	66Cu (185.9)	431.0 (3.0)	163Dy (351.1)	435.9 (<0.1)	152Eu (89.8)
426.4 (0.4)	198Au (214.8)	431.2 (<0.1)	158Gd (181.9)	435.9 (1.2)	177Lu (150.4)
426.4 (0.2)	152Eu (89.8)	431.3	172Yb	436.0 (0.9)	116In (273.0)
426.4 (0.8)	105Ru (143.2)	431.3 (100.0)	185Os (6588.0)	436.0 (34.9)	69Zn (1008.0)
426.4 (0.5)	134Cs (116.4)	431.4 (1.8)	110Ag (198.7)	436.1 (8.8)	194Ir (371.7)
426.4 (1.3)	186Re (59.0)	431.4 (0.2)	162Dy (185.0)	436.1	172Yb
426.5 (<0.1)	158Gd (181.9)	431.5 (6.1)	77Ge (3895.2)	436.2	175Yb
426.6 (<0.1)	152Eu (89.8)	431.5 (4.1)	142Pr (176.9)	436.3 (1.4)	72Ga (145.1)
426.7 (<0.1)	76As (165.0)	431.6 (0.3)	72Ga (145.1)	436.3 (<0.1)	152Eu (89.8)
426.7 (0.6)	114In (311.7)	431.6 (1.9)	104Rh (180.9)	436.3 (0.3)	80Br (37.1)
426.7 (1.2)	188Re (63.6)	431.6 (1.6)	190Os (186.7)	436.3 (0.1)	162Dy (185.0)
426.8 (1.6)	144Nd (696.5)	431.6 (2.3)	188Re (63.6)	436.3 (0.4)	198Au (214.8)
426.8 (1.2)	103Ru (174.0)	431.7 (<0.1)	152Eu (89.8)	436.5	175Yb
426.8 (<0.1)	158Gd (181.9)	431.8 (2.9)	75Se (286.6)	436.5 (<0.1)	168Er (6228.8)
426.9 (0.3)	145Nd (852.8)	432.0 (28.4)	103Ru (174.0)	436.6 (34.9)	52V (125.1)
427.0 (2.2)	170Tm (204.5)	432.1 (<0.1)	158Gd (181.9)	436.6 (<0.1)	152Eu (89.8)
427.0 (3.9)	70Ga (508.4)	432.2 (0.3)	233Th (3473.0)	436.8 (5.7)	66Cu (185.9)
427.1 (0.1)	152Eu (89.8)	432.2 (4.5)	80Br (37.1)	436.9 (0.3)	198Au (214.8)
427.1 (100.0)	187Os (427.1)	432.3 (1.3)	188Re (63.6)	436.9 (<0.1)	160Tb (75.1)
427.2 (1.0)	199Au (493.5)	432.3 (<0.1)	158Gd (181.9)	436.9 (3.4)	147Nd (314.7)
427.2 (0.1)	156Gd (89.0)	432.4 (<0.1)	152Eu (89.8)	437.0 (0.1)	152Eu (89.8)
427.2 (<0.1)	160Tb (75.1)	432.4 (2.6)	148Sm (550.0)	437.0 (<0.1)	200Hg (367.9)
427.4 (0.2)	233Th (3473.0)	432.4 (1.1)	198Au (214.8)	437.2 (3.7)	114In (311.7)
427.5 (<0.1)	158Gd (181.9)	432.5 (0.7)	134Cs (116.4)	437.3 (0.1)	152Eu (89.8)
427.5 (0.1)	152Eu (89.8)	432.5 (0.3)	193Os (5276.0)	437.4 (0.4)	140La (5097.9)
427.7 (18.3)	163Dy (351.1)	432.7 (0.4)	152Eu (89.8)	437.4 (<0.1)	204Tl (139.9)
427.7 (0.4)	162Dy (185.0)	432.7 (11.3)	73Ge (326.0)	437.4 (0.8)	163Dy (351.1)
427.8 (<0.1)	200Hg (367.9)	432.7 (<0.1)	156Gd (89.0)	437.5 (2.2)	151Nd (4487.8)
427.9 (<0.1)	110Ag (198.7)	432.7 (0.2)	198Au (214.8)	437.5	172Yb
427.9 (<0.1)	158Gd (181.9)	432.7 (<0.1)	158Gd (181.9)	437.5 (0.4)	198Au (214.8)
428.0 (4.7)	75Se (285.6)	432.8 (0.8)	105Ru (143.2)	437.6 (<0.1)	200Hg (367.9)
428.0 (0.6)	160Tb (75.1)	432.8 (1.6)	170Tm (204.5)	437.6 (<0.1)	152Eu (89.8)
428.1 (<0.1)	110Ag (198.7)	433.1 (1.1)	153Sm (127.3)	437.7 (3.6)	204Tl (139.9)
428.1 (4.2)	104Rh (180.9)	433.1 (<0.1)	152Eu (89.8)	437.7 (2.6)	188Re (63.6)
428.1 (0.1)	152Eu (89.8)	433.1 (0.4)	198Au (214.8)	437.8 (<0.1)	152Eu (89.8)
428.2 (0.3)	153Sm (127.3)	433.4 (1.2)	176Lu (71.5)	438.6 (<0.1)	158Gd (181.9)
428.2 (3.1)	187W (5261.8)	433.7 (5.9)	191Os (5147.1)	438.6 (0.6)	80Br (37.1)
428.2 (<0.1)	158Gd (181.9)	433.7 (17.4)	116In (273.0)	438.7 (<0.1)	152Eu (89.8)
428.5 (<0.1)	200Hg (367.9)	433.8 (<0.1)	152Eu (89.8)	438.8 (0.1)	158Gd (181.9)
428.6	175Yb	433.8 (0.9)	72Ga (145.1)	439.0 (3.7)	105Ru (143.2)
* 3.7 (0.1)	80Br (37.1)	434.0 (2.4)	88Sr (1836.1)	439.0 (1.8)	186Re (59.0)
428.8 (1.5)	188Re (63.6)	434.0 (0.2)	202Hg (439.5)	439.0 (2.1)	134Cs (116.4)
428.8 (3.7)	103Ru (174.0)	434.0 (3.0)	249Cm (1408.3)	439.1 (<0.1)	152Eu (89.8)
428.9 (<0.1)	158Gd (181.9)	434.0 (0.2)	80Br (37.1)	439.1 (0.2)	116Sn (1293.5)
428.9 (<0.1)	152Eu (89.8)	434.1 (<0.1)	152Eu (89.8)	439.2 (5.9)	167Os (427.1)
429.1 (3.8)	170Tm (204.5)	434.1 (0.5)	145Nd (852.8)	439.2 (0.1)	158Gd (181.9)
429.5 (<0.1)	156Gd (89.0)	434.2 (1.8)	186Re (59.0)	439.3 (8.7)	198Au (214.8)
429.6 (0.5)	176Lu (71.5)	434.2 (0.9)	188Re (63.6)	439.3 (2.0)	72Ga (145.1)
429.7 (5.8)	239Pu (4821.8)	434.3 (<0.1)	143Nd (742.1)	439.3 (6.4)	197Pt (5846.3)

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV ($\times 10^3$)	Nucleus (Strongest γ)	E γ keV ($\times 10^3$)	Nucleus (Strongest γ)	E γ keV ($\times 10^3$)	Nucleus (Strongest γ)
439.4 (0.9)	198Au (214.8)	444.7 (0.2)	169Yb	450.1 (0.1)	124Sb
439.4 (55.8)	150Sm (334.0)	444.7 (4.0)	72Ga (145.1)	450.2 (0.1)	152Eu (89.8)
439.5 (100.0)	202Hg (439.5)	444.8 (6.0)	71Ge (499.8)	450.3 (0.2)	78Se (613.8)
439.5 (<0.1)	200Hg (367.9)	444.9 (<0.1)	159Gd (181.9)	450.3 (<0.1)	156Gd (89.0)
439.5 (4.2)	153Sm (127.3)	444.9 (0.2)	176Lu (71.5)	450.3 (12.6)	134Cs (116.4)
439.5 (13.6)	77Se (238.9)	445.0 (0.2)	152Eu (89.8)	450.4 (<0.1)	62Ni (1172.8)
439.6 (4.4)	145Nd (852.8)	445.2 (2.4)	153Sm (127.3)	450.7 (<0.1)	152Eu (89.8)
439.6 (0.1)	152Eu (89.8)	445.2	169Yb	450.7 (<0.1)	158Gd (181.9)
439.7 (1.2)	188Re (63.6)	445.2 (<0.1)	158Gd (181.9)	450.7 (20.5)	185W (4573.6)
439.8 (1.3)	176Lu (71.5)	445.2 (17.6)	75Ge (574.7)	450.8	128I
439.8 (0.3)	78Se (613.8)	445.3 (0.3)	75Se (286.6)	450.8 (<0.1)	110Ag (198.7)
439.8 (3.1)	142Pr (176.9)	445.4 (<0.1)	152Eu (89.8)	450.9 (0.7)	80Br (37.1)
439.9 (<0.1)	152Eu (89.8)	445.6 (6.7)	105Ru (143.2)	450.9 (0.2)	77Se (238.9)
439.9 (0.8)	198Au (214.8)	445.7 (<0.1)	158Gd (181.9)	451.0 (<0.1)	152Eu (89.8)
440.1 (12.3)	198Au (214.8)	445.7 (<0.1)	200Hg (367.9)	451.2	169Yb
440.3 (12.0)	194Ir (371.7)	445.7 (0.1)	80Br (37.1)	451.2 (<0.1)	158Gd (181.9)
440.5 (<0.1)	233Th (3473.0)	445.8 (2.2)	235U (4155.1)	451.4 (0.2)	152Eu (89.8)
440.6 (<0.1)	152Eu (89.8)	445.9 (0.7)	198Au (214.8)	451.4 (8.0)	114In (311.7)
440.6 (7.7)	104Rh (180.9)	446.0 (<0.1)	152Eu (89.8)	451.4 (2.2)	134Cs (116.4)
440.7 (<0.1)	168Er (6228.8)	446.0 (<0.1)	196Pt (356.1)	451.6 (<0.1)	156Gd (89.0)
440.8 (<0.1)	152Eu (89.8)	446.1 (<0.1)	168Er (6228.8)	451.8 (0.1)	152Eu (89.8)
440.8 (0.9)	198Au (214.8)	446.3 (0.2)	176Lu (71.5)	451.8 (0.5)	162Dy (185.0)
441.0 (1.0)	188Re (63.6)	446.3 (<0.1)	110Ag (198.7)	451.8 (4.1)	194Ir (371.7)
441.0 (0.3)	193Os (5276.0)	446.4 (26.1)	170Tm (204.5)	452.2 (0.3)	153Sm (127.3)
441.1 (2.6)	188Re (63.6)	446.6 (0.4)	184W (111.2)	452.3 (<0.1)	200Hg (367.9)
441.1 (5.7)	163Dy (351.1)	446.7 (<0.1)	152Eu (89.8)	452.4 (1.3)	249Cm (1408.3)
441.2 (0.5)	77Se (238.9)	447.0 (0.1)	152Eu (89.8)	452.6 (0.6)	116In (273.0)
441.4 (0.2)	152Eu (89.8)	447.0 (0.5)	98Mo (787.4)	452.6 (<0.1)	152Eu (89.8)
441.5 (1.4)	249Cm (1408.3)	447.0 (4.6)	194Ir (371.7)	452.6 (3.4)	80Br (37.1)
441.7 (0.2)	190Os (186.7)	447.3 (0.8)	153Sm (127.3)	452.9 (0.8)	176Lu (71.5)
441.8 (0.1)	152Eu (89.8)	447.3 (0.5)	114In (311.7)	452.9 (<0.1)	152Eu (89.8)
441.8 (8.1)	197Pt (5846.3)	447.3 (0.5)	198Au (214.8)	453.0 (0.5)	198Au (214.8)
441.8 (0.7)	193Os (5276.0)	447.3 (2.3)	249Cm (1408.3)	453.2 (<0.1)	158Gd (181.9)
442.0 (9.8)	105Ru (143.2)	447.4 (0.7)	116In (273.0)	453.2 (0.7)	114In (311.7)
442.1 (4.3)	170Tm (204.5)	447.5 (1.5)	168Er (6228.8)	453.3	175Yb
442.1 (0.5)	198Au (214.8)	447.5 (2.5)	147Nd (314.7)	453.4 (<0.1)	150Sm (334.0)
442.2 (<0.1)	78Se (613.8)	447.6 (4.2)	185Os (6588.0)	453.4 (0.7)	188Os (155.0)
442.3 (<0.1)	152Eu (89.8)	447.6 (<0.1)	158Gd (181.9)	453.6 (0.6)	198Au (214.8)
442.3 (<0.1)	177Yb (151.6)	447.7 (34.8)	60Co (229.8)	453.6 (<0.1)	200Hg (367.9)
442.3 (0.4)	202Hg (439.5)	447.7 (<0.1)	152Eu (89.8)	453.7 (<0.1)	158Gd (181.9)
442.3 (2.6)	163Dy (351.1)	447.7 (<0.1)	143Nd (742.1)	453.7 (1.8)	197Pt (5846.3)
442.4 (0.4)	72Ga (145.1)	447.7 (0.6)	177Lu (150.4)	453.7 (25.6)	146Nd (7110.8)
442.4 (3.1)	191Os (5147.1)	447.8 (0.2)	176Lu (71.5)	453.8 (0.2)	152Eu (89.8)
442.4 (1.3)	46Sc (227.8)	447.8 (1.0)	190Os (186.7)	453.9 (6.5)	194Ir (371.7)
442.5 (11.4)	153Sm (127.3)	448.0 (3.2)	165Dy (108.2)	454.1 (1.3)	134Cs (116.4)
442.6 (7.6)	187Os (427.1)	448.1 (1.3)	188Os (155.0)	454.2 (1.5)	188Re (63.6)
442.7	124Sb	448.2 (<0.1)	152Eu (89.8)	454.3 (16.1)	56Mn (26.6)
442.8 (0.5)	198Au (214.8)	448.2 (4.8)	92Zr (934.5)	454.3 (4.3)	170Tm (204.5)
442.9 (4.6)	134Cs (116.4)	448.3 (<0.1)	114Cd (1660.3)	454.3 (0.6)	144Nd (696.5)
443.0 (<0.1)	152Eu (89.8)	448.3 (22.5)	187Os (427.1)	454.5	94Nb
443.0 (<0.1)	158Gd (181.9)	448.3 (0.4)	198Au (214.8)	454.6 (0.9)	235U (4155.1)
443.2 (2.2)	140La (5097.9)	448.4 (0.3)	146Nd (7110.8)	454.6 (<0.1)	158Gd (181.9)
443.2	169Yb	448.5 (0.8)	239Pu (4821.8)	454.7 (0.4)	198Au (214.8)
443.3 (1.3)	116In (273.0)	448.6 (<0.1)	84Kr (881.8)	454.7 (27.0)	139Ba (627.3)
443.3 (0.1)	152Eu (89.8)	448.7 (0.2)	150Sm (334.0)	454.7 (<0.1)	152Eu (89.8)
443.5 (1.2)	182Ta (270.4)	448.9 (0.5)	116In (273.0)	454.8 (14.7)	187Os (427.1)
443.7	169Yb	448.9 (<0.1)	158Gd (181.9)	455.0 (0.1)	158Gd (181.9)
443.9 (<0.1)	152Eu (89.8)	448.9 (<0.1)	200Hg (367.9)	455.1 (<0.1)	98Mo (787.4)
444.0 (<0.1)	158Gd (181.9)	449.0 (<0.1)	152Eu (89.8)	455.1 (<0.1)	200Hg (367.9)
444.0 (1.1)	167Er (207.8)	449.0 (0.8)	182Ta (270.4)	455.2 (0.2)	158Gd (181.9)
444.1 (1.3)	249Cm (1408.3)	449.1 (0.4)	163Dy (351.1)	455.2	124Sb
444.2 (7.2)	198Au (214.8)	449.1 (0.1)	98Mo (787.4)	455.3 (1.1)	167Er (207.8)
444.2 (<0.1)	152Eu (89.8)	449.3 (3.5)	142Pr (176.9)	455.4 (0.1)	156Gd (89.0)
444.2 (1.3)	188Re (63.6)	449.3 (0.1)	152Eu (89.8)	455.5 (1.5)	188Re (63.6)
444.3 (<0.1)	165Dy (108.2)	449.3 (6.2)	198Au (214.8)	455.5 (<0.1)	77Se (238.9)
444.4 (0.7)	163Dy (351.1)	449.4 (3.3)	64Cu (7916.0)	455.5 (0.1)	156Gd (89.0)
444.5 (<0.1)	152Eu (89.8)	449.6 (0.1)	152Eu (89.8)	455.6 (0.2)	163Dy (351.1)
444.5 (2.0)	134Cs (116.4)	449.6	122Sb	455.6 (0.2)	152Eu (89.8)
444.5 (0.9)	198Au (214.8)	449.8 (3.0)	188Re (63.6)	455.8 (3.4)	193Os (5276.0)
444.5 (0.7)	114In (311.7)	449.9 (0.1)	152Eu (89.8)	455.8 (12.0)	75Ge (574.7)

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV (%I γ)	Nucleus (Strongest γ)	E γ keV (%I γ)	Nucleus (Strongest γ)	E γ keV (%I γ)	Nucleus (Strongest γ)
455.8 (1.6)	80Br (37.1)	461.5 (2.3)	238Np (5352.0)	467.4 (4.2)	187W (5261.8)
455.9 (5.1)	103Ru (174.0)	461.6 (0.2)	150Sm (334.0)	467.7 (<0.1)	156Gd (89.0)
455.9 (1.8)	198Au (214.8)	461.8 (9.5)	173Yb (389.4)	467.7	81Se (89.8)
456.0 (<0.1)	152Eu (89.8)	461.9 (0.2)	152Eu (89.8)	467.8 (0.1)	152Eu (89.8)
456.0 (9.8)	170Tm (204.5)	462.2 (0.2)	188Os (155.0)	467.8 (<0.1)	75Se (286.6)
456.1 (0.2)	190Os (186.7)	462.2 (17.9)	239Pu (4821.8)	467.9 (0.1)	200Hg (367.9)
456.1 (<0.1)	200Hg (367.9)	462.3 (2.1)	163Dy (351.1)	467.9 (4.6)	199Au (493.5)
456.1 (3.9)	198Au (214.8)	462.3 (<0.1)	110Ag (198.7)	468.0 (4.8)	64Cu (7916.0)
456.2 (0.3)	153Sm (127.3)	462.4	128I	468.0 (0.8)	74Ge (595.7)
456.3 (0.3)	202Hg (439.5)	462.5	124Sb	468.0 (0.2)	202Hg (439.5)
456.4 (<0.1)	156Gd (89.0)	462.5 (10.2)	185Os (6588.0)	468.0	175Yb
456.5 (1.5)	188Re (63.6)	462.5 (3.3)	191Os (5147.1)	468.1 (<0.1)	152Eu (89.8)
456.5 (<0.1)	158Gd (181.9)	462.5 (9.7)	187Os (427.1)	468.3 (10.7)	249Cm (1408.3)
456.5 (<0.1)	152Eu (89.8)	462.6 (0.6)	167Er (207.8)	468.3 (0.2)	96Mo (778.3)
456.6	169Yb	462.8 (<0.1)	152Eu (89.8)	468.3 (1.8)	114In (311.7)
456.8 (16.8)	197Pt (5846.3)	462.8 (<0.1)	143Nd (742.1)	468.4 (<0.1)	158Gd (181.9)
457.0 (6.0)	170Tm (204.5)	462.8 (16.1)	138Ba (1435.6)	468.4	169Yb
457.2 (3.1)	71Ge (499.8)	462.9 (34.4)	105Ru (143.2)	468.5 (<0.1)	185Os (6588.0)
457.3 (<0.1)	152Eu (89.8)	462.9 (<0.1)	200Hg (367.9)	468.6 (0.9)	116In (273.0)
457.4 (0.4)	198Au (214.8)	463.0 (<0.1)	76As (165.0)	468.7 (0.4)	198Au (214.8)
457.4	169Yb	463.2 (0.2)	162Dy (185.0)	468.7 (<0.1)	200Hg (367.9)
457.6 (0.1)	156Gd (89.0)	463.4 (9.0)	116Sn (1293.5)	468.8 (5.4)	170Tm (204.5)
457.8 (<0.1)	158Gd (181.9)	463.5 (1.9)	147Nd (314.7)	468.9 (<0.1)	200Hg (367.9)
457.8 (3.7)	198Au (214.8)	463.6 (<0.1)	158Gd (181.9)	469.0 (<0.1)	152Eu (89.8)
457.9 (46.9)	177Lu (150.4)	463.6 (0.6)	188Re (63.6)	469.0 (17.0)	80Br (37.1)
458.1 (2.3)	198Au (214.8)	463.6 (1.6)	153Eu (97.4)	469.0 (0.3)	143Nd (742.1)
458.2 (0.1)	150Sm (334.0)	463.7 (1.9)	104Rh (180.9)	469.0 (<0.1)	160Tb (75.1)
458.3 (1.7)	116In (273.0)	463.8 (5.2)	185W (4573.6)	469.0 (91.5)	161Gd (5280.0)
458.5 (0.1)	152Eu (89.8)	463.9 (0.1)	152Eu (89.8)	469.1 (1.0)	198Au (214.8)
458.6 (<0.1)	158Gd (181.9)	464.2 (0.7)	150Sm (334.0)	469.1 (<0.1)	110Ag (198.7)
458.7 (1.8)	72Ga (145.1)	464.2 (0.1)	200Hg (367.9)	469.3 (1.1)	188Re (63.6)
458.7 (0.1)	98Mo (787.4)	464.3 (0.3)	80Br (37.1)	469.3 (<0.1)	158Gd (181.9)
458.8 (<0.1)	200Hg (367.9)	464.3 (<0.1)	158Gd (181.9)	469.4 (0.3)	162Dy (185.0)
458.9 (0.1)	152Eu (89.8)	464.4 (7.2)	194Ir (371.7)	469.4 (1.7)	186Re (59.0)
458.9 (1.3)	134Cs (116.4)	464.5 (1.6)	134Cs (116.4)	469.6 (<0.1)	152Eu (89.8)
459.0	94Nb	464.6 (2.0)	62Ni (1172.8)	470.1 (10.0)	239Pu (4821.8)
459.0 (0.3)	162Dy (185.0)	464.7 (<0.1)	152Eu (89.8)	470.2 (1.9)	165Dy (108.2)
459.3 (0.6)	58Fe (810.5)	464.8 (<0.1)	110Ag (198.7)	470.2 (15.4)	249Cm (1408.3)
459.4 (<0.1)	116In (273.0)	464.8 (<0.1)	150Sm (334.0)	470.2 (7.7)	104Rh (180.9)
459.5 (<0.1)	152Eu (89.8)	465.0 (6.1)	45Ca (174.3)	470.2 (<0.1)	169Er (429.9)
459.5 (65.0)	194Ir (371.7)	465.0 (0.4)	184W (111.2)	470.2 (<0.1)	152Eu (89.8)
459.5	173Yb	465.0 (0.1)	156Gd (89.0)	470.3 (1.2)	105Ru (143.2)
459.6 (0.6)	156Gd (89.0)	465.0 (66.4)	66Cu (185.9)	470.6	169Yb
459.7 (8.9)	56Mn (26.6)	465.1	175Yb	470.7 (28.2)	153Sm (127.3)
459.7 (0.5)	62Ni (1172.8)	465.1 (0.9)	233Th (3473.0)	470.7 (1.0)	80Br (37.1)
459.8 (2.5)	80Br (37.1)	465.2 (<0.1)	68Zn (1077.4)	470.7 (0.5)	143Nd (742.1)
459.8 (0.7)	163Dy (351.1)	465.2 (<0.1)	152Eu (89.8)	471.0	179Hf
459.8 (0.4)	152Eu (89.8)	465.3 (6.3)	165Dy (108.2)	471.2 (<0.1)	152Eu (89.8)
459.9 (0.6)	96Mo (778.3)	465.3 (7.4)	72Ga (145.1)	471.2 (<0.1)	200Hg (37.9)
459.9 (4.8)	153Sm (127.3)	465.4 (<0.1)	59Ni (8999.3)	471.3 (2.1)	191Os (5147.1)
460.0 (1.0)	147Nd (314.7)	465.5 (1.7)	116In (273.0)	471.4 (1.1)	167Er (207.8)
460.0 (9.8)	142Pr (176.9)	465.5 (<0.1)	152Eu (89.8)	471.4 (0.2)	146Nd (7110.8)
460.0 (1.0)	188Re (63.6)	465.6 (3.7)	199Au (493.5)	471.5 (<0.1)	152Eu (89.8)
460.1 (0.4)	198Au (214.8)	465.6 (1.0)	163Dy (351.1)	471.8	122Sb
460.2 (1.9)	104Rh (180.9)	465.6	179Hf	471.8 (16.0)	194Ir (371.7)
460.5 (0.1)	158Gd (181.9)	465.8 (0.2)	152Eu (89.8)	471.6 (1.3)	105Ru (143.2)
460.5 (0.4)	167Er (207.8)	466.2 (6.1)	105Ru (143.2)	471.7 (0.6)	193Os (5276.0)
460.6 (<0.1)	152Eu (89.8)	466.2 (<0.1)	110Ag (198.7)	471.7 (0.5)	198Au (214.8)
460.7 (0.7)	64Cu (7916.0)	466.2 (<0.1)	152Eu (89.8)	471.8 (12.4)	116In (273.0)
460.8 (<0.1)	200Hg (367.9)	466.2 (0.8)	198Au (214.8)	471.9 (0.1)	152Eu (89.8)
460.8 (<0.1)	185Os (6588.0)	466.3 (17.7)	101Mo (180.7)	471.9 (8.8)	204Tl (139.9)
461.0 (5.7)	60Co (229.8)	466.4 (1.0)	188Re (63.6)	472.0 (1.0)	233Th (3473.0)
461.0 (0.2)	75Se (286.6)	466.5 (<0.1)	158Gd (181.9)	472.1 (1.1)	77Se (238.9)
461.0 (0.8)	163Dy (351.1)	466.6 (18.0)	194Ir (371.7)	472.1 (<0.1)	200Hg (367.9)
461.1 (1.5)	134Cs (116.4)	466.7 (<0.1)	200Hg (367.9)	472.2 (0.4)	198Au (214.8)
461.2 (<0.1)	200Hg (367.9)	466.8 (12.6)	147Nd (314.7)	472.2 (<0.1)	76As (165.0)
461.2 (<0.1)	152Eu (89.8)	466.9	124Sb	472.3 (5.8)	233Th (3473.0)
461.3 (1.6)	72Ga (145.1)	467.3 (1.1)	186Ho (136.7)	472.3 (0.1)	152Eu (89.8)
461.4 (0.2)	198Au (214.8)	467.4 (0.1)	152Eu (89.8)	472.4 (<0.1)	158Gd (181.9)
461.5 (<0.1)	110Ag (198.7)	467.4 (<0.1)	146Nd (7110.8)	472.5 (0.9)	156Gd (89.0)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)
472.5 (0.9)	156Gd (89.0)	477.7	124Sb	483.3 (<0.1)	200Hg (367.9)
472.5 (5.0)	114In (311.7)	477.8 (<0.1)	158Gd (181.9)	483.4 (0.2)	198Au (214.8)
472.5 (0.3)	202Hg (439.5)	477.9 (1.9)	182Ta (270.4)	483.4 (0.1)	68Zn (1077.4)
472.8 (0.2)	152Eu (89.8)	477.9 (3.8)	186Re (59.0)	483.7 (<0.1)	110Ag (198.7)
472.8 (0.1)	158Gd (181.9)	477.9 (3.4)	140La (5097.9)	483.7 (0.8)	80Br (37.1)
472.9	124Sb	478.0 (5.7)	66Cu (185.9)	483.9	128I
473.1 (0.5)	188Re (63.6)	478.0 (2.5)	147Nd (314.7)	484.0 (<0.1)	152Eu (89.8)
473.3 (0.1)	152Eu (89.8)	478.1 (0.1)	152Eu (89.8)	484.0 (<0.1)	105Ru (143.2)
473.4 (0.8)	114In (311.7)	478.1 (34.0)	188Os (155.0)	484.2 (8.1)	60Co (229.8)
473.5 (5.4)	170Tm (204.5)	478.1 (4.4)	235U (4155.1)	484.3 (0.3)	198Au (214.8)
473.6 (33.8)	153Sm (127.3)	478.4 (7.0)	184Ir (371.7)	484.3 (1.7)	239Pu (4821.8)
473.7 (1.0)	162Ta (270.4)	478.4	189Yb	484.3 (1.5)	80Br (37.1)
473.7 (0.6)	198Au (214.8)	478.9 (<0.1)	152Eu (89.8)	484.4 (3.7)	151Nd (4487.8)
473.8 (4.2)	187W (5261.8)	479.0 (0.1)	156Gd (89.0)	484.4 (<0.1)	110Ag (198.7)
473.8 (0.1)	152Eu (89.8)	479.1 (<0.1)	158Gd (181.9)	484.6 (29.2)	87Sr (8039.8)
474.0 (18.7)	73Ge (326.0)	479.1 (1.0)	80Br (37.1)	484.7	124Sb
474.0 (1.4)	114In (311.7)	479.1 (15.2)	148Sm (550.0)	484.7 (0.8)	176Lu (71.5)
474.0 (6.3)	167Er (207.8)	479.2 (0.2)	146Nd (7110.8)	484.8 (<0.1)	152Eu (89.8)
474.2 (2.4)	151Nd (4487.8)	479.2 (<0.1)	152Eu (89.8)	484.8 (5.3)	77Se (238.9)
474.2 (2.0)	116In (273.0)	479.3 (1.1)	176Lu (71.5)	484.8	94Nb
474.3	169Yb	479.3 (5.4)	186Re (59.0)	484.8 (0.4)	156Gd (89.0)
474.5 (0.1)	152Eu (89.8)	479.5 (3.6)	163Dy (351.1)	484.8 (0.4)	162Dy (185.0)
474.5 (5.5)	198Au (493.5)	479.6 (0.5)	62Ni (1172.8)	485.0 (50.0)	187Os (427.1)
474.5 (<0.1)	150Sm (334.0)	479.6 (0.6)	158Gd (181.9)	485.1 (1.5)	134Cs (116.4)
474.5 (0.6)	1650y (108.2)	479.7 (0.1)	152Eu (89.8)	485.3 (20.4)	73Ge (326.0)
474.5 (1.9)	146Nd (7110.8)	479.9 (2.7)	182Ta (270.4)	485.3 (3.3)	170Tm (204.5)
474.8 (2.5)	188Re (63.6)	479.9 (0.5)	188Re (83.6)	485.3 (1.2)	198Au (214.8)
474.9 (0.8)	162Dy (185.0)	480.0 (<0.1)	152Eu (89.8)	485.4	122Sb
474.9 (0.4)	198Au (214.8)	480.0 (0.4)	198Au (214.8)	485.4 (<0.1)	200Hg (367.9)
474.9 (0.6)	176Lu (71.5)	480.1	169Yb	485.6 (1.3)	116In (273.0)
475.0 (29.0)	141Ce (662.0)	480.1 (3.2)	105Ru (143.2)	485.6 (0.6)	198Au (214.8)
475.1 (<0.1)	200Hg (367.9)	480.2 (<0.1)	200Hg (367.9)	485.6 (0.2)	200Hg (367.9)
475.2 (<0.1)	158Gd (181.9)	480.5 (1.4)	96Mo (778.3)	485.7	169Yb
475.3 (<0.1)	152Eu (89.8)	480.5 (3.3)	191Os (5147.1)	485.7 (0.8)	80Br (37.1)
475.3 (0.3)	114In (311.7)	480.6 (<0.1)	152Eu (89.8)	485.8 (0.1)	152Eu (89.8)
475.4 (16.7)	163Dy (351.1)	480.6 (<0.1)	158Gd (181.9)	485.8 (<0.1)	158Gd (181.9)
475.6 (1.7)	177Lu (150.4)	480.9	128I	485.9 (1.3)	150Sm (334.0)
475.8 (0.2)	158Gd (181.9)	481.0 (0.2)	190Os (186.7)	486.0 (6.3)	46Sc (227.8)
475.9 (4.4)	116In (273.0)	481.1 (10.5)	153Sm (127.3)	486.0 (0.2)	152Eu (89.8)
475.9 (0.1)	152Eu (89.8)	481.2 (<0.1)	110Ag (198.7)	486.1 (0.5)	188Re (63.6)
476.1 (4.5)	191Os (5147.1)	481.3 (0.7)	74Ge (595.7)	486.1 (<0.1)	202Hg (439.5)
476.1 (<0.1)	80Br (37.1)	481.4 (<0.1)	178Hf (213.4)	486.4 (<0.1)	200Hg (367.9)
476.2 (0.2)	198Au (214.8)	481.5 (0.2)	105Ru (143.2)	486.5 (1.2)	56Mn (26.6)
476.2 (<0.1)	158Gd (181.9)	481.5	124Sb	486.6 (<0.1)	152Eu (89.8)
476.3	172Yb	481.7 (0.9)	198Au (214.8)	486.7 (1.6)	163Dy (351.1)
476.5 (<0.1)	156Gd (89.0)	481.7 (5.3)	104Rh (180.9)	487.0 (0.1)	152Eu (89.8)
476.5 (0.5)	202Hg (439.5)	481.7 (3.3)	170Tm (204.5)	487.1 (35.0)	194Ir (371.7)
476.7	175Yb	481.7 (0.2)	152Eu (89.8)	487.1 (<0.1)	200Hg (367.9)
476.7 (1.9)	116In (273.0)	481.8 (1.1)	80Br (37.1)	487.2 (1.8)	186Re (59.0)
476.7 (0.2)	146Nd (7110.8)	481.9 (0.6)	177Lu (150.4)	487.2 (3.5)	103Ru (174.0)
476.7 (<0.1)	158Gd (181.9)	481.9 (0.9)	196Pt (356.1)	487.2 (0.3)	188Re (63.6)
476.8 (3.9)	144Nd (696.5)	482.0 (<0.1)	156Gd (89.0)	487.2 (0.2)	198Au (214.8)
476.8 (<0.1)	152Eu (89.8)	482.0 (0.2)	146Nd (7110.8)	487.4 (3.2)	188Os (155.0)
476.8 (0.2)	200Hg (367.9)	482.1	175Yb	487.4 (1.8)	134Cs (116.4)
476.9 (0.4)	114In (311.7)	482.1 (1.8)	174Yb (176.6)	487.5 (<0.1)	158Gd (181.9)
476.9 (0.6)	116Sn (1293.5)	482.1 (0.3)	188Re (63.6)	487.6 (0.2)	200Hg (367.9)
476.9 (0.8)	176Lu (71.5)	482.2 (0.1)	152Eu (89.8)	487.7 (1.7)	114In (311.7)
476.9 (<0.1)	150Sm (334.0)	482.3 (<0.1)	200Hg (367.9)	487.7 (0.3)	198Au (214.8)
477.0 (<0.1)	190Os (186.7)	482.4 (0.1)	158Gd (181.9)	487.8	175Yb
477.1 (3.8)	1650y (108.2)	482.4	210Bi	487.9 (6.3)	167Er (207.8)
477.1 (<0.1)	152Eu (89.8)	482.5 (2.6)	153Sm (127.3)	487.9 (<0.1)	233Th (3473.0)
477.1 (13.5)	177Yb (151.6)	482.6 (2.7)	185W (4573.6)	488.0 (6.3)	73Ge (326.0)
477.3	128I	482.9	169Yb	488.0 (57.4)	86Rb (557.0)
477.4 (5.4)	170Tm (204.5)	482.9 (3.1)	184W (111.2)	488.1 (1.2)	51V (1609.3)
477.4	175Yb	483.0 (6.2)	194Ir (371.7)	488.2 (<0.1)	152Eu (89.8)
477.4 (0.5)	162Dy (185.0)	483.0 (0.2)	198Au (214.8)	488.3 (7.5)	204Tl (139.9)
477.4 (<0.1)	158Gd (181.9)	483.1 (0.8)	80Br (37.1)	488.3 (<0.1)	143Nd (742.1)
477.5 (0.3)	114Cd (1660.3)	483.2 (<0.1)	152Eu (89.8)	488.6 (2.0)	153Sm (127.3)
477.5 (<0.1)	152Eu (89.8)	483.2 (1.7)	63Ni (6838.2)	488.7 (0.1)	152Eu (89.8)
477.5 (7.0)	194Ir (371.7)	483.3 (<0.1)	204Tl (139.9)	488.7 (0.3)	162Dy (185.0)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV (X_{17})	Nucleus (Strongest γ)	E_{γ} keV (X_{17})	Nucleus (Strongest γ)	E_{γ} keV (X_{17})	Nucleus (Strongest γ)
488.8 (<0.1)	110Ag (188.7)	494.3 (1.5)	153Sm (127.3)	499.3 (2.2)	165Dy (108.2)
488.8 (<0.1)	233Th (3473.0)	494.4 (8.1)	167Er (207.8)	499.4 (<0.1)	152Eu (89.8)
488.8 (3.2)	72Ga (145.1)	494.5 (13.9)	249Cm (1408.3)	499.4 (1.5)	182Ta (270.4)
488.9 (1.8)	1910s (5147.1)	494.5 (9.5)	163Dy (351.1)	499.4 (0.5)	205Pb (6731.5)
489.1 (0.1)	156Gd (89.0)	494.6 (0.4)	156Gd (89.0)	499.4 (2.1)	239Pu (4821.8)
489.2 (0.2)	152Eu (89.8)	494.7 (0.1)	152Eu (89.8)	499.4 (0.3)	163Dy (351.1)
489.2 (1.4)	187W (5261.8)	494.9 (2.6)	64Cu (7916.0)	499.5 (23.0)	194Ir (371.7)
489.2 (1.7)	134Cs (116.4)	495.0 (3.0)	187W (5261.8)	499.5 (13.0)	170Tm (204.5)
489.3 (1.9)	104Rh (180.9)	495.0 (2.1)	151Nd (4487.8)	499.5 (0.1)	94Nb
489.4 (0.4)	80Br (37.1)	495.2 (0.4)	77Se (238.9)	499.5 (0.1)	124Te (602.4)
489.4 (1.2)	182Ta (270.4)	495.2 (0.1)	143Nd (742.1)	499.6 (0.5)	156Gd (89.0)
489.5 (7.5)	204Tl (139.9)	495.3 (17.0)	194Ir (371.7)	499.7 (1.4)	56Mn (26.6)
489.8 (0.7)	143Ce (4337.8)	495.5 (<0.1)	200Hg (367.9)	499.7 (4.7)	177Yb (151.6)
490.0 (2.4)	116In (273.0)	495.6 (<0.1)	152Eu (89.8)	499.8 (8.2)	1910s (5147.1)
490.1 (0.5)	198Au (214.8)	495.7 (1.1)	134Cs (116.4)	499.8 (11.4)	187W (5261.8)
490.3 (<0.1)	76As (165.0)	495.7 (4.3)	167Er (207.8)	499.8 (<0.1)	152Eu (89.8)
490.3 (<0.1)	98Mo (787.4)	495.8 (<0.1)	110Ag (198.7)	499.8 (100.0)	71Ge (499.8)
490.4	172Yb	495.8 (9.4)	140La (5097.9)	499.9 (0.2)	184W (111.2)
490.5 (0.1)	152Eu (89.8)	495.8 (0.6)	156Gd (89.0)	500.0 (<0.1)	158Gd (181.9)
490.6 (1.7)	249Cm (1408.3)	495.9 (0.1)	152Eu (89.8)	500.1	128I
490.6 (0.8)	80Br (37.1)	495.9 (3.2)	1910s (5147.1)	500.2 (0.7)	116In (273.0)
490.6 (0.4)	198Au (214.8)	495.9 (<0.1)	146Nd (7110.8)	500.2 (0.1)	152Eu (89.8)
490.7 (0.3)	1900s (186.7)	495.9 (0.5)	235U (4155.1)	500.2 (<0.1)	143Nd (742.1)
490.7 (4.8)	194Ir (371.7)	495.9 (0.3)	200Hg (367.9)	500.3 (1.1)	72Ga (145.1)
490.8 (15.3)	105Ru (143.2)	496.2 (0.2)	202Hg (439.5)	500.5 (0.2)	98Mo (787.4)
490.8 (1.1)	75Se (286.6)	496.2 (<0.1)	158Gd (181.9)	500.6 (1.8)	165Dy (108.2)
490.8 (<0.1)	158Gd (181.9)	496.4 (0.3)	188Re (63.6)	500.7 (1.3)	188Re (63.6)
490.9 (1.2)	176Lu (71.5)	496.5	175Yb	500.8 (0.2)	152Eu (89.8)
490.9	210Bi	496.6 (3.6)	186Re (59.0)	500.9 (<0.1)	1850s (6588.0)
491.0 (<0.1)	200Hg (367.9)	496.6 (0.6)	105Ru (143.2)	501.0 (<0.1)	163Dy (351.1)
491.1 (4.1)	235U (4155.1)	496.6 (3.9)	238Np (5352.0)	501.0	124Sb
491.2	122Sb	496.7 (0.8)	114In (311.7)	501.2 (13.3)	103Ru (174.0)
491.3 (0.9)	188Re (63.6)	496.7 (10.9)	170Tm (204.5)	501.2 (<0.1)	152Eu (89.8)
491.3	81Se	496.8 (0.9)	46Sc (227.8)	501.4 (1.3)	182Ta (270.4)
491.5 (30.4)	1870s (427.1)	496.9 (<0.1)	110Ag (198.7)	501.5 (<0.1)	71Ge (499.8)
491.5 (9.1)	158Gd (181.9)	496.9 (<0.1)	158Gd (181.9)	501.6 (<0.1)	168Er (6228.8)
491.5 (0.6)	153Sm (127.3)	496.9 (1.0)	163Dy (351.1)	501.7 (0.1)	152Eu (89.8)
491.6 (0.2)	152Eu (89.8)	496.9 (7.9)	165Dy (108.2)	501.7 (9.7)	171Er (197.9)
491.6 (1.0)	116In (273.0)	497.0 (0.1)	152Eu (89.8)	501.7 (1.8)	1850s (6588.0)
491.7 (0.1)	158Gd (181.9)	497.2 (23.8)	60Co (229.8)	501.9 (35.3)	1870s (427.1)
491.7 (<0.1)	200Hg (367.9)	497.4 (<0.1)	152Eu (89.8)	502.2 (3.5)	153Sm (127.3)
491.8 (0.9)	198Au (214.8)	497.4 (3.4)	249Cm (1408.3)	502.4 (29.0)	137Pt (5846.3)
491.9 (24.7)	177Yb (151.6)	497.5 (<0.1)	169Er (429.9)	502.6 (4.9)	114In (311.7)
491.9 (1.9)	1850s (6588.0)	497.6 (5.8)	239Pu (4821.8)	502.6 (<0.1)	152Eu (89.8)
492.1 (<0.1)	152Eu (89.8)	497.7	169Yb	502.6 (0.4)	1900s (186.7)
492.1 (<0.1)	158Gd (181.9)	497.7 (0.6)	78Se (613.8)	502.7 (0.2)	80Br (37.1)
492.2 (<0.1)	150Sm (334.0)	497.7 (1.3)	116In (311.7)	502.8 (0.8)	158Gd (181.9)
492.2 (9.6)	239Pu (4821.8)	497.7 (4.0)	148Sm (550.0)	502.8 (<0.1)	200Hg (367.9)
492.4 (2.4)	92Zr (934.5)	497.7	175Yb	502.9 (4.3)	134Cs (116.4)
492.4 (<0.1)	152Eu (89.8)	497.8 (<0.1)	178Hf (213.4)	503.2 (<0.1)	152Eu (89.8)
492.5 (0.1)	45Ca (174.3)	497.8 (0.4)	72Ga (145.1)	503.5 (1.1)	153Sm (127.3)
492.5 (8.7)	116In (273.0)	497.8 (<0.1)	200Hg (367.9)	503.6 (15.1)	147Nd (314.7)
492.6 (<0.1)	158Gd (181.9)	497.8 (0.2)	168Er (6228.8)	503.6 (8.5)	64Cu (7916.0)
492.9 (1.8)	80Br (37.1)	497.9 (2.9)	104Rh (180.9)	503.8 (0.8)	198Au (214.8)
492.9 (10.3)	74Ge (595.7)	498.1 (4.1)	198Au (214.8)	503.8 (1.7)	114In (311.7)
493.0 (<0.1)	152Eu (89.8)	498.2 (1.3)	80Br (37.1)	504.1 (<0.1)	146Nd (7110.8)
493.0 (1.6)	188Re (63.6)	498.2	124Sb	504.3 (0.5)	188Re (63.6)
493.2 (1.4)	176Lu (71.5)	498.3	175Yb	504.4 (0.3)	78Se (613.8)
493.4 (<0.1)	98Mo (787.4)	498.4 (<0.1)	152Eu (89.8)	504.5 (0.3)	80Br (37.1)
493.4 (0.1)	152Eu (89.8)	498.4 (<0.1)	158Gd (181.9)	504.7 (3.4)	56Mn (26.6)
493.5 (3.4)	147Nd (314.7)	498.6 (10.6)	167Er (207.3)	504.7 (0.7)	174Yb (176.6)
493.5 (100.0)	199Au (493.5)	498.6 (0.9)	198Au (214.8)	504.8 (3.4)	235U (4155.1)
493.7 (0.5)	143Nd (742.1)	498.6 (<0.1)	200Hg (367.9)	504.9 (<0.1)	168Er (6228.8)
493.8 (<0.1)	158Gd (181.9)	498.6 (0.2)	158Gd (181.9)	505.0 (<0.1)	158Gd (181.9)
494.0 (0.2)	152Eu (89.8)	498.7 (0.1)	152Eu (89.8)	505.0	175Yb
494.0 (0.2)	162Dy (185.0)	498.8	169Yb	505.2 (21.7)	199Au (493.5)
494.0 (0.4)	80Br (37.1)	499.1 (0.8)	176Lu (71.5)	505.2 (0.9)	52V (125.1)
494.1 (0.4)	156Gd (89.0)	499.2 (0.5)	177Lu (150.4)	505.2 (<0.1)	200Hg (367.9)
494.2 (<0.1)	158Gd (181.9)	499.3 (<0.1)	168Er (6228.8)	505.4 (0.2)	152Eu (89.8)
494.3 (<0.1)	110Ag (198.7)	499.3 (1.8)	188Re (63.6)	505.4	169Yb

Table I. CAPTURE γ 's - energy sorted (cont.)

E_γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E_γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E_γ keV ($\% \gamma$)	Nucleus (Strongest γ)
505.4 (10.4)	150Sm (334.0)	515.2 (<0.1)	152Eu (89.8)	521.0 (3.5)	199Au (493.5)
505.7 (7.6)	170Tm (204.5)	515.3 (0.2)	168Er (6228.8)	521.1 (0.6)	153Sm (127.3)
505.8 (1.1)	77Se (238.9)	515.5 (0.7)	177Lu (150.4)	521.4 (3.1)	153Eu (97.4)
506.0 (5.6)	249Cm (1408.3)	515.6 (29.4)	187Os (427.1)	521.4 (0.1)	168Er (6228.8)
506.0 (0.5)	114In (311.7)	515.7 (0.5)	150Sm (334.0)	521.4 (<0.1)	200Hg (367.9)
506.0 (0.2)	152Eu (89.8)	515.7 (2.0)	116In (273.0)	521.5 (0.5)	116In (273.0)
506.2 (7.6)	170Tm (204.5)	515.7 (0.7)	70Ga (508.4)	521.6 (5.5)	116In (273.0)
506.2 (14.0)	194Ir (371.7)	515.8 (3.9)	198Au (214.8)	521.9 (1.0)	198Au (214.8)
506.3 (1.6)	145Nd (852.8)	515.9 (0.7)	116In (273.0)	522.0 (0.8)	114In (311.7)
506.4 (1.9)	114In (311.7)	516.0 (<0.1)	168Er (6228.8)	522.0 (66.7)	187Os (427.1)
506.6 (0.4)	177Lu (150.4)	516.1 (<0.1)	96Mo (778.3)	522.2 (<0.1)	152Eu (89.8)
506.8 (<0.1)	110Ag (198.7)	516.3 (4.0)	75Se (286.6)	522.2 (<0.1)	185Os (6588.0)
507.0	179Hf	516.3 (<0.1)	200Hg (367.9)	522.3 (0.2)	114Cd (1660.3)
507.1 (<0.1)	169Er (429.9)	516.4 (<0.1)	158Gd (181.9)	522.3 (0.2)	156Gd (89.0)
507.1 (0.4)	188Os (155.0)	516.4 (0.6)	56Mn (26.6)	522.5 (1.0)	188Re (63.6)
507.2 (<0.1)	158Gd (181.9)	516.5 (0.9)	176Lu (71.5)	522.5 (0.5)	198Au (214.8)
507.3 (0.3)	198Au (214.8)	516.6 (13.4)	142Pr (176.9)	522.6 (3.8)	233Th (3473.0)
507.3 (<0.1)	152Eu (89.8)	516.6	210Bi	522.8 (0.3)	162Dy (185.0)
507.4 (<0.1)	110Ag (198.7)	516.6 (<0.1)	152Eu (89.8)	522.9 (0.2)	188Os (155.0)
507.5 (4.4)	163Dy (351.1)	516.7 (7.1)	153Sm (127.3)	522.9 (<0.1)	146Nd (7110.8)
507.5 (1.2)	188Re (63.6)	516.8 (11.2)	147Nd (314.7)	523.0 (0.1)	152Eu (89.8)
507.8 (0.6)	98Mo (787.4)	516.9 (<0.1)	68Zn (1077.4)	523.1 (1.5)	153Sm (127.3)
508.0 (1.7)	114In (311.7)	517.0 (0.6)	235U (4155.1)	523.2 (1.3)	151Nd (4487.8)
508.2 (0.2)	152Eu (89.8)	517.1 (<0.1)	152Eu (89.8)	523.4 (1.1)	56Mn (26.6)
508.2 (8.0)	185Os (6588.0)	517.1 (18.7)	197Pt (5846.3)	523.5 (0.7)	80Br (37.1)
508.4 (100.0)	70Ga (508.4)	517.1 (<0.1)	200Hg (367.9)	523.5 (6.5)	170Tm (204.5)
508.4 (<0.1)	168Er (6228.8)	517.2 (2.3)	193Os (5276.0)	523.5 (0.2)	158Gd (181.9)
508.6	177Hf	517.3 (0.4)	63Ni (6838.2)	523.5 (<0.1)	152Eu (89.8)
508.8 (<0.1)	158Gd (181.9)	517.3 (15.7)	185W (4573.6)	523.6	128I
508.9 (1.2)	165Dy (108.2)	517.6 (0.1)	152Eu (89.8)	523.8 (10.3)	197Pt (5846.3)
509.0 (15.5)	142Pr (176.9)	517.7 (6.6)	71Ge (499.8)	523.8 (3.0)	199Au (493.5)
509.0 (2.5)	166Ho (136.7)	517.7 (<0.1)	76As (165.0)	523.8	172Yb
509.0 (2.0)	153Eu (97.4)	517.9 (0.2)	143Nd (742.1)	523.9 (<0.1)	185Os (6588.0)
509.3 (0.1)	152Eu (89.8)	517.9 (8.3)	116In (273.0)	524.0 (0.6)	182Ta (270.4)
509.7 (0.5)	177Lu (150.4)	518.0 (1.7)	153Sm (127.3)	524.0 (0.5)	190Os (186.7)
510.1 (0.1)	152Eu (89.8)	518.1 (11.0)	77Se (238.9)	524.1 (2.7)	134Cs (116.4)
510.1 (<0.1)	150Sm (334.0)	518.1 (0.7)	116In (273.0)	524.1 (1.0)	188Re (63.6)
510.1 (2.1)	198Au (214.8)	518.2 (0.2)	152Eu (89.8)	524.2 (2.3)	153Sm (127.3)
510.2 (<0.1)	177Yb (151.6)	518.3	94Nb	524.2 (0.4)	198Au (214.8)
510.4	177Hf	518.3 (0.3)	78Se (613.8)	524.2 (0.1)	152Eu (89.8)
510.4 (0.2)	152Eu (89.8)	518.4 (<0.1)	156Gd (89.0)	524.3 (0.7)	116In (273.0)
510.7 (<0.1)	146Nd (7110.8)	518.4 (0.7)	190Os (186.7)	524.5 (<0.1)	110Ag (198.7)
510.9 (0.2)	152Eu (89.8)	518.5	128I	524.6 (5.4)	249Cm (1408.3)
510.9 (<0.1)	156Gd (89.0)	518.5	175Yb	524.7 (1.8)	58Fe (810.5)
511.2 (7.9)	198Au (214.8)	518.6 (2.3)	188Re (63.6)	524.8 (<0.1)	169Er (429.9)
511.3 (<0.1)	187Os (427.1)	518.7 (1.3)	55Cr (6246.4)	524.8 (3.4)	198Au (214.8)
511.6 (<0.1)	71Ge (499.8)	518.7 (15.0)	194Ir (371.7)	525.0 (0.8)	176Lu (71.5)
511.7 (0.2)	152Eu (89.8)	518.8 (<0.1)	158Gd (181.9)	525.2 (2.1)	86Rb (557.0)
511.8	175Yb	518.9 (<0.1)	158Gd (181.9)	525.2 (0.5)	198Au (214.8)
512.2 (26.1)	170Tm (204.5)	519.0 (<0.1)	152Eu (89.8)	525.3 (0.4)	177Lu (150.4)
512.3 (0.1)	152Eu (89.8)	519.3 (0.3)	165Dy (108.2)	525.3 (3.4)	147Nd (314.7)
512.3 (1.6)	198Au (214.8)	519.3 (4.8)	134Cs (116.4)	525.4 (<0.1)	152Eu (89.8)
512.3 (0.4)	162Dy (185.0)	519.5 (<0.1)	152Eu (89.8)	525.5 (1.0)	103Ru (174.0)
512.3 (<0.1)	158Gd (181.9)	519.7 (0.4)	164Dy (73.4)	525.6 (4.1)	134Cs (116.4)
512.7 (2.9)	166Ho (136.7)	519.9 (<0.1)	146Nd (7110.8)	525.7 (0.6)	188Re (63.6)
512.8 (0.1)	152Eu (89.8)	520.0 (0.3)	150Sm (334.0)	525.8 (0.3)	72Ga (145.1)
513.0 (100.0)	106Pd (513.0)	520.1 (1.0)	176Lu (71.5)	526.0 (0.1)	152Eu (89.8)
513.3 (<0.1)	185Os (6588.0)	520.2 (0.2)	152Eu (89.8)	526.0 (0.6)	184W (111.2)
513.9 (0.6)	152Eu (89.8)	520.3 (28.4)	202Hg (439.5)	526.2 (<0.1)	158Gd (181.9)
513.9 (4.1)	153Eu (97.4)	520.3 (0.2)	156Gd (89.0)	526.4 (<0.1)	110Ag (198.7)
514.0	122Sb	520.4 (0.2)	152Eu (89.8)	526.5 (0.2)	152Eu (89.8)
514.4 (<0.1)	110Ag (198.7)	520.5 (6.5)	194Ir (371.7)	526.5 (1.0)	80Br (37.1)
514.5 (14.0)	194Ir (371.7)	520.6 (1.7)	167Er (207.8)	526.6 (5.8)	71Ge (499.8)
514.6 (1.8)	188Os (155.0)	520.6 (49.6)	77Se (238.9)	526.9 (0.5)	198Au (214.8)
514.8 (7.9)	26Rb (557.0)	520.7 (1.0)	177Lu (150.4)	526.9 (0.8)	156Gd (89.0)
514.8 (1.3)	198Au (214.8)	520.8 (<0.1)	158Gd (181.9)	527.1 (0.7)	163Dy (351.1)
514.9	175Yb	520.9	122Sb	527.1	94Nb
514.9 (0.1)	150Sm (334.0)	520.9 (<0.1)	200Hg (367.9)	527.2 (2.5)	197Pt (5846.3)
515.1 (3.1)	163Dy (351.1)	521.0 (1.1)	78Se (613.8)	527.3	179Hf
515.2 (<0.1)	158Gd (181.9)	521.0 (<0.1)	196Pt (356.1)	527.4 (D.1)	152Eu (89.8)

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV (χ_{17})	Nucleus (Strongest γ)	E γ keV (χ_{17})	Nucleus (Strongest γ)	E γ keV (χ_{17})	Nucleus (Strongest γ)
527.4 (2.2)	114In (311.7)	533.5 (<0.1)	200Hg (367.9)	539.4 (6.7)	134Cs (116.4)
527.5 (5.3)	176Lu (71.5)	533.6 (<0.1)	71Ge (499.8)	539.4 (8.3)	46Sc (227.8)
527.6 (1.0)	198Au (214.8)	533.7 (<0.1)	158Gd (181.9)	539.4 (6.1)	105Ru (143.2)
527.6 (50.3)	1910s (5147.1)	533.9 (0.1)	152Eu (89.8)	539.5 (0.3)	152Eu (89.8)
527.6 (2.2)	72Ga (145.1)	533.9 (2.2)	64Cu (7916.0)	539.5 (2.8)	151Nd (4487.8)
527.8 (4.4)	142Pr (176.9)	533.9 (1.6)	186Re (59.0)	539.5 (2.3)	233Th (3473.0)
527.9 (7.2)	187W (5261.8)	534.0 (<0.1)	156Gd (89.0)	539.6 (24.6)	185Os (6588.0)
528.0 (1.7)	147Nd (314.7)	534.2 (0.4)	177Lu (150.4)	539.6 (2.1)	158Gd (181.9)
528.0 (1.4)	158Gd (181.9)	534.2 (<0.1)	68Zn (1077.4)	539.7 (<0.1)	168Er (6228.8)
528.2 (0.5)	158Gd (181.9)	534.3 (2.4)	177Yb (151.6)	539.8 (0.1)	152Eu (89.8)
528.2	172Yb	534.4 (0.2)	152Eu (89.8)	540.0 (5.6)	198Au (214.8)
528.3 (<0.1)	152Eu (89.8)	534.5 (<0.1)	200Hg (367.9)	540.3 (<0.1)	158Gd (181.9)
528.3 (0.1)	146Nd (7110.8)	534.7 (<0.1)	169Er (429.9)	540.5 (1.9)	151In (273.0)
528.4 (8.2)	73Ge (326.0)	534.7 (1.3)	175Yb	540.5 (0.4)	177Lu (150.4)
528.6 (2.0)	140La (5097.9)	534.7 (0.3)	147Nd (314.7)	540.5 (<0.1)	146Nd (7110.8)
528.6 (0.4)	177Lu (150.4)	534.9 (<0.1)	233Th (3473.0)	540.5 (1.8)	153Sm (127.3)
528.6 (2.2)	179Hf	534.9 (<0.1)	146Nd (7110.8)	540.6 (4.3)	105Ru (143.2)
528.7 (7.9)	134Cs (116.4)	535.0 (<0.1)	200Hg (367.9)	540.6 (5.4)	205Pb (6731.5)
528.7	167Er (207.8)	535.1 (0.2)	152Eu (89.8)	540.7 (2.0)	134Cs (116.4)
528.9 (22.0)	198Au (214.8)	535.4	172Yb	540.7 (0.2)	152Eu (89.8)
529.0 (<0.1)	152Eu (89.8)	535.4 (0.2)	143Nd (742.1)	540.8 (3.7)	187W (5261.8)
529.1 (2.1)	162Dy (185.0)	535.4 (2.1)	153Sm (127.3)	540.9 (0.8)	114In (311.7)
529.2 (1.3)	61Ni (7819.6)	535.6 (3.9)	249Cm (1408.3)	540.9 (0.8)	200Hg (367.9)
529.2 (0.5)	188Re (63.6)	535.6 (4.4)	72Ga (145.1)	541.0	124Sb
529.3 (1.0)	80Br (37.1)	535.7 (8.7)	170Tm (204.5)	541.0 (3.9)	204Tl (139.9)
529.5 (2.9)	104Rh (180.9)	535.8 (<0.1)	152Eu (89.8)	541.1 (<0.1)	202Hg (439.5)
529.6 (0.1)	152Eu (89.8)	535.8 (<0.1)	105Ru (143.2)	541.2 (2.8)	238Np (5352.0)
529.6 (4.4)	198Au (214.8)	536.1 (<0.1)	156Gd (89.0)	541.3 (0.8)	84Kr (881.8)
529.6 (5.8)	134Cs (116.4)	536.2 (<0.1)	110Ag (198.7)	541.4 (<0.1)	158Gd (181.9)
530.0 (3.7)	86Rb (557.0)	536.2 (0.2)	194Ir (371.7)	541.4 (2.2)	56Mn (26.6)
530.1 (<0.1)	158Gd (181.9)	536.2 (0.2)	114Cd (1660.3)	541.7 (0.1)	152Eu (89.8)
530.1 (0.8)	198Au (214.8)	536.3 (0.7)	114In (311.7)	541.8 (10.6)	73Ge (326.0)
530.3	169Yb	536.3 (14.7)	187Os (427.1)	541.8 (0.4)	74Ge (595.7)
530.4 (0.2)	152Eu (89.8)	536.4 (0.2)	128I	542.1 (0.2)	68Zn (1077.4)
530.5 (1.1)	182Ta (270.4)	536.4 (0.2)	158Gd (181.9)	542.1 (1.6)	198Au (214.8)
530.5 (<0.1)	156Gd (89.0)	536.6 (<0.1)	152Eu (89.8)	542.2 (10.3)	197Pt (5846.3)
530.7 (0.9)	153Sm (127.3)	536.7 (0.5)	184W (111.2)	542.3 (0.2)	152Eu (89.8)
530.7 (1.8)	238Np (5352.0)	536.7 (<0.1)	110Ag (198.7)	542.3	122Sb
530.9 (10.0)	194Ir (371.7)	536.9 (16.3)	86Rb (557.0)	542.5 (6.3)	80Br (37.1)
531.0	169Yb	537.1 (<0.1)	158Gd (181.9)	542.5 (0.8)	177Lu (150.4)
531.1 (6.6)	73Ge (326.0)	537.2	124Sb	542.7 (59.0)	199Au (493.5)
531.1	124Sb	537.3 (1.3)	198Au (214.8)	542.8 (3.1)	151Nd (4487.8)
531.1 (0.7)	80Br (37.1)	537.3 (<0.1)	200Hg (367.9)	542.8	169Yb
531.1 (11.5)	187W (5261.8)	537.4 (1.0)	188Re (63.6)	542.8 (0.1)	152Eu (89.8)
531.2 (1.5)	74Ge (595.7)	537.5 (<0.1)	158Gd (181.9)	542.9 (<0.1)	158Gd (181.9)
531.4 (3.1)	153Eu (97.4)	537.6 (0.1)	156Gd (89.0)	543.0 (0.3)	150Sm (334.0)
531.5 (1.4)	233Th (3473.0)	537.7 (18.6)	1910s (5147.1)	543.0 (1.1)	188Re (63.6)
531.5 (48.9)	167Er (207.8)	537.8 (0.3)	198Au (214.8)	543.2 (4.1)	140La (5097.9)
531.7 (0.2)	198Au (214.8)	537.9 (8.7)	170Tm (204.5)	543.3 (1.2)	162Dy (185.0)
531.7 (5.1)	249Cm (1408.3)	537.9 (0.1)	152Eu (89.8)	543.4 (0.2)	233Th (3473.0)
531.9 (0.1)	158Gd (181.9)	538.1 (0.9)	72Ga (145.1)	543.5 (0.8)	80Br (37.1)
531.9 (80.0)	87Kr (1475.9)	538.1 (0.4)	162Dy (185.0)	543.6 (<0.1)	158Gd (181.9)
532.0 (27.7)	69Zn (1008.0)	538.1 (0.1)	188Os (155.0)	543.6 (0.1)	156Gd (89.0)
532.3 (<0.1)	152Eu (89.8)	538.2 (8.1)	104Rh (180.9)	543.6 (0.1)	152Eu (89.8)
532.3 (1.1)	156Gd (89.0)	538.2 (2.5)	171Er (197.9)	543.7 (4.7)	198Au (214.8)
532.4 (0.4)	72Ga (145.1)	538.3 (3.4)	114In (311.7)	543.8 (1.1)	168Er (6228.8)
532.5 (7.6)	170Tm (204.5)	538.3 (<0.1)	68Zn (1077.4)	543.9 (14.0)	66Cu (185.9)
532.5 (<0.1)	200Hg (367.9)	538.3 (1.7)	105Ru (143.2)	544.2 (<0.1)	110Ag (198.7)
532.7 (0.4)	114In (311.7)	538.3 (2.6)	238Np (5352.0)	544.2 (1.1)	114In (311.7)
532.9 (<0.1)	158Gd (181.9)	538.5 (<0.1)	158Gd (181.9)	544.2 (<0.1)	200Hg (367.9)
532.9 (0.5)	162Dy (185.0)	538.5 (11.8)	165Dy (108.2)	544.3 (1.1)	177Lu (150.4)
532.9 (2.3)	174Yb (176.6)	538.6 (1.2)	163Dy (351.1)	544.5 (0.1)	152Eu (89.8)
532.9 (2.3)	153Sm (127.3)	538.7 (<0.1)	185Os (6588.0)	544.5	128I
533.1 (3.1)	163Dy (351.1)	538.8 (0.4)	80Br (37.1)	544.5 (2.5)	193Os (5276.0)
533.2	128I	538.9 (16.3)	86Rb (557.0)	544.6 (0.3)	145Nd (852.8)
533.2 (2.8)	187W (5261.8)	539.0 (4.2)	153Eu (97.4)	544.9 (8.2)	167Er (207.8)
533.3 (0.2)	168Er (6228.8)	539.1 (0.5)	144Nd (696.5)	545.0 (5.1)	169Er (429.9)
533.4 (4.6)	153Eu (97.4)	539.2 (1.7)	153Sm (127.3)	545.0 (0.3)	98Mo (787.4)
533.4 (0.6)	198Au (214.8)	539.4 (5.0)	249Cm (1408.3)	545.1 (1.7)	72Ga (145.1)
		539.4 (0.8)	184W (111.2)	545.3 (1.7)	163Dy (351.1)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_γ keV (% γ)	Nucleus (Strongest γ)	E_γ keV (% γ)	Nucleus (Strongest γ)	E_γ keV (% γ)	Nucleus (Strongest γ)
545.3 (4.7)	191Os (5147.1)	551.3 (0.2)	152Eu (89.8)	557.0 (100.0)	86Rb (557.0)
545.4 (2.9)	78Se (613.8)	551.4 (<0.1)	158Gd (181.9)	557.0 (<0.1)	168Er (6228.8)
545.4 (<0.1)	146Nd (7110.8)	551.4 (4.8)	198Au (214.8)	557.1 (0.3)	98Mo (787.4)
545.5 (1.2)	116In (273.0)	551.5 (0.2)	75Se (286.6)	557.2 (27.1)	187W (5261.8)
545.5 (22.7)	103Ru (174.0)	551.7 (1.4)	238Np (5352.0)	557.2 (2.8)	238Np (5352.0)
545.5	169Yb	551.7 (0.2)	143Nd (742.1)	557.3 (2.0)	80Br (37.1)
545.6 (0.4)	80Br (37.1)	551.7 (1.4)	153Sm (127.3)	557.3 (1.5)	188Re (63.6)
545.9 (<0.1)	156Gd (89.0)	551.8 (31.4)	185Os (6588.0)	557.4 (14.4)	142Pr (176.9)
546.0 (1.0)	84Kr (881.8)	551.9 (6.4)	194Ir (371.7)	557.4	128I
546.0 (<0.1)	158Gd (181.9)	551.9 (<0.1)	200Hg (367.9)	557.7 (0.1)	156Gd (89.0)
546.1 (<0.1)	200Hg (367.9)	552.1 (3.6)	177Lu (150.4)	557.8 (6.8)	194Ir (371.7)
546.3 (0.2)	152Eu (89.8)	552.2 (1.0)	198Au (214.8)	557.8 (1.4)	241Pu (4276.5)
546.3 (0.9)	141In (311.7)	552.4 (0.1)	152Eu (89.8)	557.9 (0.1)	156Gd (89.0)
546.4 (15.5)	142Pr (176.9)	552.5 (<0.1)	200Hg (367.9)	557.9 (0.3)	152Eu (89.8)
546.4 (1.0)	205Pb (6731.5)	552.5 (<0.1)	150Sm (334.0)	558.0 (38.9)	190Os (186.7)
546.7 (0.7)	174Yb (176.6)	552.6 (0.2)	78Se (613.8)	558.0	175Yb
546.7 (0.6)	168Er (6228.8)	552.6 (14.1)	170Tm (204.5)	558.2 (0.4)	150Sm (334.0)
546.8 (2.3)	143Nd (742.1)	552.7 (0.3)	198Au (214.8)	558.3 (1.3)	235U (4155.1)
546.8 (1.6)	138Ba (1435.6)	552.9 (2.8)	145Nd (852.8)	558.4 (1.8)	134Cs (116.4)
546.9 (0.5)	145Nd (852.8)	553.0	175Yb	558.4 (2.7)	196Pt (356.1)
546.9 (0.3)	198Au (214.8)	553.0 (1.5)	70Ga (508.4)	558.4 (15.0)	197Pt (5846.3)
547.0 (<0.1)	200Hg (367.9)	553.0 (0.9)	116In (273.0)	558.5 (40.4)	114Cd (160.3)
547.1 (3.9)	46Sc (227.8)	553.0 (6.8)	140La (5097.9)	558.6 (<0.1)	200Hg (367.9)
547.2 (18.0)	194Ir (371.7)	553.0 (0.4)	233Th (3473.0)	558.7 (2.9)	56Mn (26.6)
547.3 (3.5)	187W (5261.8)	553.1 (1.0)	163Dy (351.1)	558.8	172Yb
547.3 (0.2)	152Eu (89.8)	553.2 (0.1)	200Hg (367.9)	558.8 (0.7)	80Br (37.1)
547.4 (1.3)	134Cs (116.4)	553.3	169Yb	558.9 (0.2)	78Se (613.8)
547.4 (1.0)	151Nd (4487.8)	553.4 (0.8)	162Ta (270.4)	558.9 (1.3)	176Lu (71.5)
547.4	169Yb	553.5 (<0.1)	158Gd (181.9)	558.9 (<0.1)	152Eu (89.8)
547.5 (2.0)	114In (311.7)	554.0 (0.2)	152Eu (89.8)	558.9 (1.5)	114In (311.7)
547.6 (<0.1)	158Gd (181.9)	554.2 (15.0)	101Mo (180.7)	559.0 (0.2)	77Se (238.9)
547.8 (0.5)	190Os (186.7)	554.4 (2.5)	188Re (63.6)	559.0 (<0.1)	160Tb (75.1)
547.8 (1.6)	177Lu (150.4)	554.5 (22.8)	46Sc (227.8)	559.1 (0.6)	80Br (37.1)
547.9 (1.4)	72Ga (145.1)	554.6 (25.8)	103Ru (174.0)	559.3 (0.5)	72Ga (145.1)
547.9 (<0.1)	185Os (6588.0)	554.6 (0.3)	177Lu (150.4)	559.6 (3.8)	163Dy (351.1)
547.9 (<0.1)	233Th (3473.0)	554.8 (8.8)	147Nd (314.7)	559.6 (1.2)	168Er (6228.8)
548.0 (0.3)	198Au (214.8)	554.8 (3.1)	134Cs (116.4)	559.9 (2.0)	153Sm (127.3)
548.0 (<0.1)	156Gd (89.0)	554.8 (3.2)	167Er (207.8)	559.9 (2.0)	116In (273.0)
548.5 (2.4)	104Rh (180.9)	554.8 (<0.1)	204Tl (139.9)	560.2 (11.3)	142Pr (176.9)
548.5 (1.0)	164Dy (73.4)	554.9 (5.2)	153Eu (97.4)	560.3 (10.5)	73Ge (326.0)
548.5	169Yb	555.1 (<0.1)	156Gd (89.0)	560.3 (<0.1)	158Gd (181.9)
548.6 (2.7)	249Cm (1408.3)	555.3 (2.3)	238Np (5352.0)	560.4	169Yb
548.6 (6.9)	198Au (214.8)	555.3 (42.1)	86Rb (557.0)	560.4 (0.3)	162Dy (185.0)
548.7 (5.7)	116In (273.0)	555.4 (0.7)	98Mo (787.4)	560.6 (0.4)	80Br (37.1)
548.7 (0.2)	152Eu (89.8)	555.4 (1.3)	198Au (214.8)	560.8 (0.7)	188Re (63.6)
548.7	179Hf	555.4 (2.5)	116In (273.0)	560.8 (0.2)	156Gd (89.0)
548.8	175Yb	555.5 (0.2)	72Ga (145.1)	560.9 (0.6)	193Os (5276.0)
548.9 (1.5)	188Re (63.6)	555.5 (0.2)	96Mo (778.3)	561.0 (22.5)	92Zr (934.5)
548.9 (12.2)	140La (5097.9)	555.5 (10.5)	104Rh (180.9)	561.0 (0.8)	70Ga (508.4)
548.9 (<0.1)	233Th (3473.0)	555.6 (<0.1)	158Gd (181.9)	561.0	124Sb
549.0	124Sb	555.7 (0.3)	152Eu (89.8)	561.1 (0.5)	72Ga (145.1)
549.4 (<0.1)	110Ag (198.7)	555.8 (46.7)	60Co (229.8)	561.1 (1.2)	233Th (3473.0)
549.5 (3.1)	176Lu (71.5)	555.9 (0.6)	146Nd (7110.8)	561.2 (2.1)	103Ru (174.0)
549.6 (3.0)	80Br (37.1)	556.0 (1.6)	162Dy (185.0)	561.5 (0.3)	177Lu (150.4)
549.6 (0.2)	152Eu (89.8)	556.0 (4.6)	194Ir (371.7)	561.5 (<0.1)	158Gd (181.9)
549.7 (0.9)	153Sm (127.3)	556.0 (0.2)	202Hg (439.5)	561.6 (1.1)	186Re (59.0)
549.7 (0.6)	202Hg (439.5)	556.1	175Yb	561.6 (0.8)	153Sm (127.3)
549.8 (0.2)	188Os (155.0)	556.1 (4.1)	171Er (197.9)	561.8 (0.1)	158Gd (181.9)
549.9 (<0.1)	110Ag (198.7)	556.2 (4.9)	116In (273.0)	561.8 (0.3)	152Eu (89.8)
549.9 (0.3)	72Ga (145.1)	556.2 (0.2)	168Er (6228.8)	561.8 (4.3)	71Ge (499.8)
550.0 (100.0)	148Sm (550.0)	556.2 (<0.1)	156Gd (89.0)	561.9 (0.1)	144Nd (696.5)
550.2 (<0.1)	76As (165.0)	556.4 (1.1)	87Sr (8039.8)	562.0 (<0.1)	169Er (429.9)
550.3 (6.1)	249Cm (1408.3)	556.4 (0.6)	145Nd (852.8)	562.1	94Nb
550.3 (<0.1)	158Gd (181.9)	556.6 (0.3)	200Hg (367.9)	562.3 (<0.1)	158Gd (181.9)
550.4 (2.7)	177Lu (150.4)	556.7 (9.8)	116In (273.0)	562.5 (9.8)	170Tm (204.5)
550.4 (0.2)	152Eu (89.8)	556.7 (<0.1)	158Gd (181.9)	562.6 (7.6)	199Au (493.5)
550.5 (2.3)	177Yb (151.6)	556.8	175Yb	562.6 (<0.1)	200Hg (367.9)
550.6 (0.4)	198Au (214.8)	556.9 (0.1)	152Eu (89.8)	562.7 (3.1)	105Ru (143.2)
550.9 (1.7)	186Re (59.0)	557.0 (1.3)	233Th (3473.0)	562.8 (6.3)	171Er (197.9)
551.1 (0.4)	162Dy (185.0)	557.0 (0.3)	165Dy (108.2)	562.9 (20.7)	103Ru (174.0)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\times 10^3$)	Nucleus (Strongest γ)	E_{γ} keV ($\times 10^3$)	Nucleus (Strongest γ)	E_{γ} keV ($\times 10^3$)	Nucleus (Strongest γ)
582.9 (7.8)	103Ru (174.0)	568.6 (<0.1)	68Zn (1077.4)	574.2 (1.0)	114In (311.7)
582.9 (2.6)	204Tl (130.0)	568.8 (0.2)	68Zn (778.3)	574.2 (0.2)	233Th (3473.0)
582.9 (<3.1)	204Tl (130.0)	568.9 (0.7)	158Er (6288.8)	574.3 (0.2)	152Eu (89.8)
583.1 (12.7)	210Bi (427.1)	569.0 (0.2)	143Nd (742.1)	574.6 (0.2)	190Os (186.7)
			179Hf	574.7 (2.4)	77Se (238.9)
583.2 (0.1)	163Yb	569.1 (0.3)	78Se (613.8)	574.7 (100.0)	75Ge (574.7)
583.3 (<0.1)	156Gd (181.9)	569.2 (0.2)	233Th (3473.0)	574.7 (77.5)	90Y (776.7)
583.5 (<0.1)	168Er (6288.8)	569.3 (32.1)	190Os (186.7)	575.0 (<0.1)	110Ag (198.7)
583.6 (8.2)	177Yb (131.8)	569.4 (0.6)	152Eu (89.8)	575.0 (1.7)	153Sm (127.3)
583.6 (<0.1)	156Gd (181.9)	569.4 (1.4)	190Os (5276.0)	575.0 (1.4)	78Se (613.8)
583.6 (<0.1)	200Hg (367.9)	569.4 (<0.1)	175Yb	575.0 (0.3)	144Nd (696.5)
583.8 (24.3)	143Nd (742.1)	569.5 (<0.1)	92Zr (934.5)	575.0 (1.1)	196Pt (356.1)
583.9 (10.7)	176Lu (71.5)	569.5 (15.2)	170Tm (204.5)	575.0 (0.3)	98Mo (787.4)
584.0 (2.1)	143Nd (832.8)	569.6 (8.0)	154Tl (371.7)	575.2 (0.1)	152Eu (89.8)
584.0 (29.6)	53Cr (7939.6)	569.7 (0.6)	72Ga (145.1)	575.3 (0.2)	198Au (214.8)
584.1 (0.5)	235U (4155.1)	569.8 (<0.1)	158Gd (181.9)	575.6 (1.8)	249Cm (1408.3)
584.2 (1.3)	116In (273.0)	569.8 (0.4)	189Yb	575.6 (0.2)	55Cr (6246.4)
584.2 (<0.1)	200Hg (367.9)	569.8 (1.4)	196Pt (5846.3)	575.6 (16.0)	194Ir (371.7)
584.2 (<0.1)	152Sm	569.9 (10.3)	142Pr (176.9)	575.8 (<0.1)	150Sm (334.0)
584.3 (<0.1)	68Zn (1077.4)	569.9 (0.3)	98Mo (787.4)	578.0 (2.5)	114Cd (1660.3)
584.4 (0.2)	152Eu (89.8)	570.0 (1.3)	80Br (37.1)	576.2 (20.6)	187Os (427.1)
584.4 (1.0)	205Pb (6731.5)	570.1 (0.2)	172Lu (150.4)	576.2 (1.3)	116In (273.0)
584.5 (0.3)	202Hg (439.5)	570.1 (29.2)	158Gd (181.9)	576.3 (4.9)	205Pb (6731.5)
584.5 (1.2)	72Ga (145.1)	570.2 (1.6)	57Fe (7531.6)	576.4 (0.8)	45Ca (174.3)
584.6 (1.3)	233Th (3473.0)	570.2 (<0.1)	177Yb (151.6)	576.5 (0.4)	152Eu (89.8)
584.7 (2.1)	153Sm (127.3)	570.4 (<0.1)	158Gd (181.9)	576.5 (0.4)	172Yb (150.4)
584.8 (1.6)	173Yb (359.4)	570.6 (0.4)	152Eu (89.8)	576.6 (0.2)	152Eu (89.8)
584.9 (3.2)	86Rb (359.4)	570.7 (1.9)	197Pt (5846.3)	576.6 (2.5)	198Au (214.8)
584.9 (0.3)	114In (311.7)	570.7 (0.1)	143Nd (742.1)	577.2 (1.6)	114In (311.7)
585.0 (0.2)	163Dy (351.1)	570.8 (<0.1)	110Ag (198.7)	577.3 (<0.1)	152Eu (89.8)
585.0 (22.7)	105Ru (143.2)	570.9 (3.7)	141In (311.7)	577.3 (43.0)	187W (5261.8)
585.0 (1.0)	116In (273.0)	571.0 (0.4)	154Sm (334.0)	577.4 (6.7)	241Pu (4276.5)
585.1 (<0.1)	146Nd (7110.8)	571.1 (5.0)	158Gd (181.9)	577.5 (5.2)	116In (273.0)
585.2 (0.9)	165Dy (108.2)	571.4 (0.5)	52V (125.1)	577.7 (3.6)	233Th (3473.0)
585.3 (<0.1)	175Yb (66As (165.0))	571.4 (<0.1)	92Zr (934.5)	577.9 (15.1)	147Nd (314.7)
585.3 (0.2)	152Eu (89.8)	571.5 (<0.1)	158Gd (181.9)	578.0 (1.1)	186Re (63.6)
585.4 (22.6)	170Tm (204.5)	571.5 (0.4)	152Eu (89.8)	578.0 (<0.1)	200Hg (367.9)
585.5 (3.6)	198Au (214.8)	571.8 (<0.1)	158Gd (181.9)	578.0 (9.8)	105Ru (143.2)
585.6 (0.2)	172Yb	571.8 (<0.1)	179Hf (185.0)	578.0 (<0.1)	146Nd (7110.8)
585.7 (0.6)	138Ba (1435.6)	571.9 (<0.1)	200Hg (367.9)	578.2 (<0.1)	158Gd (181.9)
585.8 (1.8)	77Se (238.9)	571.9 (10.3)	71Ge (499.8)	578.3 (7.7)	197Pt (5846.3)
585.8 (2.2)	188Re (63.6)	571.9 (0.6)	72Ga (145.1)	578.5 (3.0)	68Zn (1077.4)
585.9 (<0.1)	156Gd (181.9)	572.0 (0.4)	77Se (238.9)	578.6 (4.7)	176Lu (71.5)
585.9 (21.3)	55Cr (6246.4)	572.2 (0.4)	148Sm (550.0)	578.7 (2.8)	153Eu (97.4)
585.9 (0.3)	182Dy (185.0)	572.3 (4.4)	80Br (37.1)	578.8 (0.4)	198Au (214.8)
586.2 (<0.1)	200Hg (367.9)	572.4 (1.4)	152Eu (89.8)	578.9 (9.4)	77Se (238.9)
586.2 (14.7)	170Tm (204.5)	572.4 (0.2)	159Yb (151.6)	579.2 (0.2)	152Eu (89.8)
586.6 (<0.1)	156Gd (181.9)	572.7 (4.1)	162Dy (185.0)	579.3 (0.3)	78Se (613.8)
586.7 (0.5)	177Lu (150.4)	572.9 (1.5)	75Se (286.6)	579.3 (<0.1)	169Er (429.9)
586.7 (7.2)	233Th (3473.0)	573.0 (5.4)	170Tm (204.5)	579.3 (2.4)	200Hg (367.9)
586.9 (0.4)	186Os (137.0)	573.0 (0.3)	198Au (214.8)	579.4 (0.7)	62Ni (1172.8)
587.2 (0.4)	80Br (37.1)	573.2 (4.3)	177Yb (151.6)	579.4 (0.3)	80Br (37.1)
587.2 (0.3)	152Eu (89.8)	573.6 (0.3)	179Hf (176.9)	579.5 (0.6)	156Gd (181.9)
587.3 (38.8)	140La (509.9)	573.4 (11.3)	142Pr (176.9)	579.6 (8.9)	128I (7916.0)
587.3 (1.1)	182Ta (270.4)	573.5 (1.1)	200Hg (367.9)	579.7 (0.1)	64Cu (64.0)
587.5 (7.9)	153Sm (147.3)	573.5 (0.3)	163Dy (150.4)	579.7 (0.8)	152Eu (89.8)
587.5 (0.9)	174Yb (176.8)	573.6 (0.4)	179Hf (176.9)	579.8 (0.8)	72Ga (145.1)
587.6 (0.1)	156Gd (181.9)	573.6 (2.1)	198Au (214.8)	579.9 (2.3)	153Sm (127.3)
587.6 (0.2)	198Au (214.8)	573.7 (0.8)	161In (273.0)	580.0 (0.5)	233Th (3473.0)
587.7 (1.6)	176Lu (71.5)	573.7 (20.1)	167Er (207.8)	580.1 (1.3)	71Ge (499.8)
587.8 (2.7)	116In (273.0)	573.8 (15.3)	205Pb (6731.5)	580.1 (0.7)	74Ge (595.7)
588.0 (<0.1)	200Hg (367.9)	573.9 (<0.1)	156Gd (181.9)	580.4 (0.1)	152Eu (89.8)
588.2 (0.2)	152Eu (89.8)	574.0 (4.3)	70Ga (508.4)	580.4 (1.4)	186Re (59.0)
588.3 (4.8)	77Se (238.9)	574.1 (1.5)	153Sm (127.3)	580.5 (20.3)	185W (4573.6)
588.4 (2.1)	103Ru (174.0)	574.1 (1.0)	158Gd (181.9)	580.5 (3.4)	188Re (63.6)
588.4 (0.5)	114In (311.7)	574.1 (<0.1)	168Os (155.0)	580.5 (6.3)	194Ir (371.7)
588.4 (7.6)	173Yb (359.4)	574.1 (1.5)	198Au (214.8)	581.1 (0.1)	152Eu (89.8)
588.5 (3.5)	153Sm (127.3)	574.2 (<0.1)	156Gd (181.9)	581.2 (0.2)	198Au (214.8)

Table 1. CAPTURE γ 's - energy sorted (cont.)

E γ keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E γ keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E γ keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)
581.4 (0.5)	80Br (37.1)	587.5 (<0.1)	110Ag (198.7)	593.8 (0.3)	198Au (214.8)
581.6 (1.2)	105Ru (143.2)	587.5 (<0.1)	150Sm (334.0)	593.8 (11.2)	167Er (207.8)
581.7 (4.3)	170Tm (204.5)	587.6 (0.2)	152Eu (89.8)	593.9 (<0.1)	110Ag (198.7)
581.9 (0.4)	177Lu (150.4)	587.6 (<0.1)	204Tl (139.9)	594.2 (0.3)	77Se (238.9)
581.9 (0.1)	188Os (155.0)	587.9 (<0.1)	200Hg (367.9)	594.6 (<0.1)	233Th (3473.0)
582.0 (<0.1)	110Ag (198.7)	588.0 (0.1)	158Gd (181.9)	594.6 (0.6)	98Mo (787.4)
582.1 (0.2)	152Eu (89.8)	588.1 (0.6)	198Au (214.8)	594.8 (0.2)	152Eu (89.8)
582.2 (1.0)	176Lu (71.5)	588.3 (0.1)	152Eu (89.8)	594.9 (13.3)	140La (5097.9)
582.3 (0.5)	72Ga (145.1)	588.3 (<0.1)	92Zr (934.5)	594.9 (0.4)	80Br (37.1)
582.4 (0.4)	144Nd (696.5)	588.5	169Yb	595.1 (<0.1)	110Ag (198.7)
582.4 (1.0)	1930s (5276.0)	588.7 (3.4)	177Yb (151.6)	595.1 (<0.1)	158Gd (181.9)
582.6 (3.2)	235U (4155.1)	588.7 (4.7)	187W (5261.8)	595.2 (5.5)	197Pt (5846.3)
582.8 (1.9)	105Ru (143.2)	588.8 (0.3)	114In (311.7)	595.2 (0.8)	147Nd (314.7)
582.8 (<0.1)	158Gd (181.9)	588.9 (<0.1)	158Gd (181.9)	595.3 (<0.1)	156Gd (89.0)
582.8 (0.3)	168Er (6228.8)	588.9 (9.5)	249Cm (1408.3)	595.3 (<0.1)	146Nd (7110.8)
583.0 (4.2)	153Sm (127.3)	589.0 (<0.1)	200Hg (367.9)	595.7 (100.0)	74Ge (595.7)
583.0 (<0.1)	200Hg (367.9)	589.0 (0.1)	77Se (238.9)	595.7 (1.0)	152Eu (181.9)
583.1 (0.3)	233Th (3473.0)	589.0 (0.9)	173Yb (399.4)	595.8 (2.1)	235U (4155.1)
583.2 (0.5)	80Br (37.1)	589.1 (0.6)	162Dy (185.0)	595.8 (1.5)	151Nd (4487.8)
583.5 (0.5)	114In (311.7)	589.2 (<0.1)	152Eu (89.8)	595.9 (0.2)	152Eu (89.8)
583.7 (0.8)	140La (5097.9)	589.2 (0.2)	80Br (37.1)	595.9 (0.9)	80Br (37.1)
583.8 (1.0)	182Ta (270.4)	589.3 (6.8)	103Ru (174.0)	596.0 (0.9)	70Ga (508.4)
583.8 (2.7)	167Er (207.8)	589.3 (15.0)	194Ir (371.7)	596.0	179Hf
583.8 (0.7)	198Au (214.8)	589.4 (1.3)	116In (273.0)	596.0 (1.7)	188Re (63.6)
583.9 (2.7)	233Th (3473.0)	589.4 (6.9)	146Nd (7110.8)	596.1 (<0.1)	200Hg (367.9)
583.9 (14.2)	101Mo (180.7)	589.6 (<0.1)	169Er (429.9)	596.2 (0.5)	114In (311.7)
584.0 (7.1)	163Dy (351.1)	589.6	179Hf	596.2 (0.6)	173Yb (399.4)
584.1 (1.6)	162Dy (185.0)	589.7 (0.3)	72Ga (145.1)	596.3 (0.4)	72Ga (145.1)
584.1 (4.1)	165Dy (108.2)	589.7 (30.4)	185Os (6588.0)	596.3 (0.5)	78Se (613.8)
584.1 (1.1)	145Nd (852.8)	589.8 (2.7)	153Sm (127.3)	596.6 (3.8)	104Rh (180.9)
584.3 (9.4)	150Sm (334.0)	589.8 (4.9)	249Cm (1408.3)	596.6 (4.3)	153Eu (97.4)
584.3 (1.4)	186Re (59.0)	589.8 (8.5)	199Au (493.5)	596.6 (0.4)	156Gd (89.0)
584.3 (1.0)	241Pu (4276.5)	589.9	124Sb	596.6 (<0.1)	158Gd (181.9)
584.3 (3.0)	238Np (5352.0)	590.0 (<0.1)	158Gd (181.9)	596.7 (<0.1)	150Sm (334.0)
584.4 (<0.1)	158Gd (181.9)	590.1 (21.7)	170Tm (204.5)	596.7 (2.4)	196Pt (356.1)
584.4 (0.5)	198Au (214.8)	590.2 (<0.1)	204Tl (139.9)	596.7 (0.9)	165Dy (108.2)
584.6 (<0.1)	146Nd (7110.8)	590.3 (0.1)	80Br (37.1)	596.9 (2.1)	176Lu (71.5)
584.7 (0.1)	177Lu (150.4)	590.5	128I	597.4 (1.6)	116In (273.0)
584.7 (0.6)	1930s (5276.0)	590.5 (16.7)	187Os (427.1)	597.4 (<0.1)	200Hg (367.9)
584.8 (23.6)	46Sc (227.8)	590.7 (<0.1)	92Zr (934.5)	597.5 (<0.1)	158Gd (181.9)
585.0 (4.3)	170Tm (204.5)	590.7	169Yb	598.1 (0.2)	152Eu (89.8)
585.1	169Yb	590.7 (0.1)	150Sm (334.0)	598.3 (<0.1)	146Nd (7110.8)
585.1 (<0.1)	156Gd (89.0)	590.9 (0.6)	198Au (214.8)	598.3 (<0.1)	200Hg (367.9)
585.2 (<0.1)	200Hg (367.9)	591.0 (<0.1)	168Er (6228.8)	598.5	124Sb
585.4 (1.1)	72Ga (145.1)	591.0 (0.7)	105Ru (143.2)	598.7 (6.7)	241Pu (4276.5)
585.4 (<0.1)	76As (165.0)	591.1	94Nb	598.9 (0.8)	80Br (37.1)
585.5 (2.9)	77Se (238.9)	591.1 (0.1)	152Eu (89.8)	599.0 (<0.1)	200Hg (367.9)
585.5 (0.5)	75Se (286.6)	591.2 (1.3)	96Mo (778.3)	599.1 (0.4)	114In (311.7)
585.5 (5.2)	88Sr (1836.1)	591.3 (<0.1)	177Lu (150.4)	599.2 (<0.1)	169Er (429.9)
585.6 (<0.1)	78Se (613.8)	591.6 (1.0)	114In (311.7)	599.2 (0.5)	233Th (3473.0)
585.9 (<0.1)	158Gd (181.9)	591.7 (0.1)	200Hg (367.9)	599.2 (5.5)	235U (4155.1)
586.0 (0.8)	114In (311.7)	591.7 (<0.1)	204Tl (139.9)	599.3 (0.3)	77Se (238.9)
586.1 (1.8)	233Th (3473.0)	591.7 (0.4)	68Zn (1077.4)	599.5 (0.7)	116In (273.0)
586.2 (<0.1)	156Gd (89.0)	591.8 (6.3)	167Er (207.8)	599.5 (0.1)	152Eu (89.8)
586.3 (1.9)	199Au (493.5)	592.1 (6.5)	103Ru (174.0)	599.6 (0.1)	177Lu (150.4)
586.4 (0.8)	116In (273.0)	592.1 (0.2)	152Eu (89.8)	599.7 (<0.1)	144Nd (696.5)
586.4	172Yb	592.2 (<0.1)	156Gd (89.0)	599.7 (2.9)	177Yb (151.6)
586.4 (2.1)	235U (4155.1)	592.3 (1.6)	173Yb (399.4)	599.9 (1.7)	188Re (63.6)
586.4 (0.2)	158Gd (181.9)	592.8 (1.2)	198Au (214.8)	599.9 (<0.1)	200Hg (367.9)
586.4 (4.1)	153Sm (127.3)	592.9 (1.4)	116In (273.0)	600.0 (<0.1)	146Nd (7110.8)
586.7 (1.4)	188Re (63.6)	592.9 (0.3)	158Gd (181.9)	600.1 (<0.1)	158Gd (181.9)
586.7 (0.9)	66Cu (185.9)	592.9 (<0.1)	185Os (6588.0)	600.2 (0.8)	46Sc (227.8)
586.8	128I	593.1 (<0.1)	233Th (3473.0)	600.3 (<0.1)	150Sm (334.0)
586.9 (0.9)	184W (111.2)	593.2 (0.6)	96Mo (778.3)	600.5 (20.0)	194Ir (371.7)
587.0 (<0.1)	110Ag (198.7)	593.3 (0.8)	80Br (37.1)	600.6 (1.7)	103Ru (174.0)
587.0 (<0.1)	200Hg (367.9)	593.4 (<0.1)	156Gd (89.0)	600.7 (0.9)	105Ru (143.2)
587.0 (52.0)	187Os (427.1)	593.6 (0.5)	114In (311.7)	600.8 (<0.1)	200Hg (367.9)
587.1 (1.1)	72Ga (145.1)	593.6 (17.1)	241Pu (4276.5)	600.8 (<0.1)	158Gd (181.9)
587.4 (0.7)	176Lu (71.5)	593.7	175Yb	600.9	94Nb
587.4 (<0.1)	158Gd (181.9)	593.8 (3.3)	153Sm (127.3)	600.9 (0.3)	156Gd (89.0)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E_γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E_γ keV ($\% \gamma$)	Nucleus (Strongest γ)
601.0 (7.8)	199Au (493.5)	608.0 (1.5)	77Se (238.9)	614.4 (2.6)	153Sm (127.3)
601.1 (<0.1)	922r (934.5)	608.1 (17.1)	241Pu (4276.5)	614.4 (<0.1)	156Gd (89.0)
601.2 (0.5)	188Os (155.0)	608.1 (7.5)	101Mo (180.7)	614.5 (0.5)	163Dy (351.1)
601.3 (<0.1)	158Gd (181.9)	608.2 (16.5)	177Yb (151.6)	614.5 (<0.1)	156Gd (89.0)
601.4 (3.6)	72Ga (145.1)	608.2 (<0.1)	200Hg (367.9)	614.8 (<0.1)	190Os (186.7)
601.5 (<0.1)	200Hg (367.9)	608.3 (22.6)	74Ge (595.7)	614.9	1281
601.5 (5.4)	140La (5097.9)	608.3 (0.8)	114In (311.7)	615.2 (1.3)	235U (4155.1)
601.8 (0.4)	168Er (6228.8)	608.4 (9.2)	116In (273.0)	615.2 (0.4)	177Lu (150.4)
601.9 (5.4)	198Au (214.8)	608.4 (7.9)	163Dy (351.1)	615.4 (6.8)	71Ge (499.8)
602.0 (0.3)	141Ce (682.0)	608.4 (1.4)	235U (4155.1)	615.4 (0.4)	198Au (214.8)
602.0 (<0.1)	146Nd (7110.8)	608.7 (5.8)	96Mo (778.3)	615.5 (<0.1)	200Hg (367.9)
602.1 (0.7)	202Hg (439.5)	608.8 (0.4)	72Ga (145.1)	615.8 (8.0)	194Ir (371.7)
602.2 (4.4)	249Cm (1408.3)	608.8 (2.4)	80Br (37.1)	615.7 (0.2)	152Eu (89.8)
602.3 (7.8)	118In (273.0)	608.8	1281	615.7 (1.8)	188Re (63.6)
602.4 (<0.1)	88Zn (1077.4)	608.8 (0.6)	156Gd (89.0)	615.8 (0.4)	96Mo (778.3)
602.4 (0.5)	235U (4155.1)	608.8 (<0.1)	158Gd (181.9)	615.8 (0.4)	202Hg (439.5)
602.4 (100.0)	124Te (602.4)	608.9 (25.9)	64Cu (7918.0)	615.8 (<0.1)	200Hg (367.9)
602.4	172Yb	608.9 (<0.1)	200Hg (367.9)	615.9 (14.2)	106Pd (513.0)
602.6 (3.6)	188Re (63.6)	609.0 (2.4)	104Rh (180.9)	615.9 (<0.1)	158Gd (181.9)
602.7 (<0.1)	158Gd (181.9)	609.1 (0.8)	198Au (214.8)	616.1	124Sb
602.7 (0.6)	60Co (229.8)	609.2 (6.1)	153Eu (97.4)	616.1 (<0.1)	156Gd (89.0)
602.7 (0.8)	174Yb (176.6)	609.2 (6.5)	188Re (63.6)	616.2 (1.1)	114In (311.7)
602.7 (<0.1)	200Hg (367.9)	609.3 (<0.1)	68Zn (1077.4)	616.3 (0.2)	152Eu (89.8)
602.8	175Yb	609.3 (4.2)	185Os (6588.0)	616.4 (<0.1)	158Gd (181.9)
602.9 (1.0)	182Ta (270.4)	609.7 (1.4)	199Au (493.5)	616.4 (1.2)	186Re (59.0)
603.2 (0.1)	177Lu (150.4)	609.9 (<0.1)	200Hg (367.9)	616.5 (18.4)	187W (5261.8)
603.3 (0.9)	51Cr (749.0)	610.1 (0.5)	153Sm (127.3)	616.6	179Hf
603.3 (2.2)	153Eu (97.4)	610.2	172Yb	616.7 (0.2)	168Er (6228.8)
603.3 (1.0)	98Mo (787.4)	610.3 (0.2)	152Eu (89.8)	616.7 (3.0)	64Cu (7916.0)
603.4 (1.8)	72Ga (145.1)	610.4 (8.0)	75Se (286.6)	616.7 (1.5)	140La (5097.9)
603.4 (<0.1)	156Gd (89.0)	610.4 (38.2)	187Os (427.1)	616.8 (<0.1)	169Er (429.9)
603.6 (1.7)	199Au (493.5)	610.5 (0.2)	198Au (214.8)	616.9 (4.8)	235U (4155.1)
603.6	122Sb	610.7 (0.5)	114In (311.7)	617.1 (0.4)	141Ce (662.0)
603.8 (0.1)	152Eu (89.8)	610.8	124Sb	617.1 (2.3)	167Er (207.8)
603.8 (5.3)	167Er (207.8)	610.8 (17.0)	194Ir (371.7)	617.5 (<0.1)	156Gd (89.0)
604.0	1281	611.0 (1.0)	164Dy (73.4)	617.5 (0.2)	233Th (3473.0)
604.0 (18.5)	170Tm (204.5)	611.0 (2.2)	77Se (238.9)	617.7 (0.4)	72Ga (145.1)
604.2 (1.1)	153Sm (127.3)	611.0 (<0.1)	110Ag (198.7)	617.8 (0.3)	152Eu (89.8)
604.3 (<0.1)	158Gd (181.9)	611.1 (22.0)	148Sm (550.0)	617.9 (0.6)	116In (273.0)
604.6 (46.2)	147Nd (314.7)	611.2 (0.1)	177Lu (150.4)	617.9 (<0.1)	158Gd (181.9)
604.6 (1.1)	80Br (37.1)	611.3 (2.9)	173Yb (399.4)	618.0 (3.4)	105Ru (143.2)
604.7 (1.0)	84Kr (881.8)	611.3 (0.2)	202Hg (439.5)	618.0 (41.0)	144Nd (696.5)
604.8 (0.1)	68Zn (1077.4)	611.4 (0.5)	96Mo (778.3)	618.0	175Yb
605.1 (1.3)	105Ru (143.2)	611.5 (0.3)	162Dy (185.0)	618.1 (0.2)	162Dy (185.0)
605.2 (1.6)	116In (273.0)	611.6 (11.0)	187W (5261.8)	618.2 (0.3)	152Eu (89.8)
605.3 (4.9)	190Os (186.7)	611.9 (<0.1)	158Gd (181.9)	618.2 (0.2)	177Lu (150.4)
605.5 (0.5)	188Os (155.0)	611.9 (10.9)	170Tm (204.5)	618.2 (1.4)	104Rh (180.9)
605.5 (1.9)	233Th (3473.0)	612.1 (0.2)	200Hg (367.9)	618.4 (7.6)	235U (4155.1)
605.9 (2.9)	153Sm (127.3)	612.1 (1.0)	233Th (3473.0)	618.5 (1.4)	114In (311.7)
605.9 (<0.1)	110Ag (198.7)	612.2 (17.5)	142Pr (176.9)	618.6 (0.6)	163Dy (351.1)
606.0 (<0.1)	77Se (238.9)	612.3 (0.1)	152Eu (89.8)	618.7 (0.6)	198Au (214.8)
606.1 (0.7)	143Nd (742.1)	612.3 (1.5)	70Ga (508.4)	618.8 (<0.1)	158Gd (181.9)
606.3 (0.3)	144Nd (696.5)	612.4 (0.6)	198Au (214.8)	618.9 (1.4)	193Os (5276.0)
606.3 (10.0)	177Yb (151.6)	612.6	175Yb	618.9 (1.4)	153Sm (127.3)
606.4 (0.5)	80Br (37.1)	612.6 (<0.1)	150Sm (334.0)	619.1 (1.0)	72Ga (145.1)
606.4 (3.5)	158Gd (181.9)	612.6 (3.7)	235U (4155.1)	619.1	177Hf
606.5 (0.8)	193Os (5276.0)	612.7 (<0.1)	110Ag (198.7)	619.3 (<0.1)	156Gd (89.0)
606.6 (6.3)	194Ir (371.7)	612.8 (0.6)	114In (311.7)	619.3 (0.4)	80Br (37.1)
606.6 (1.1)	177Lu (150.4)	612.9 (0.6)	198Au (214.8)	619.4 (2.7)	170Tm (204.5)
606.7 (2.4)	238Np (5352.0)	613.0 (1.0)	241Pu (4276.5)	619.5 (0.2)	158Gd (181.9)
606.7 (1.5)	249Cm (1408.3)	613.1	122Sb	620.1 (0.4)	198Au (214.8)
606.8 (<0.1)	204Tl (139.9)	613.4 (<0.1)	158Gd (181.9)	620.1 (0.2)	168Er (6228.8)
607.1 (<0.1)	156Gd (89.0)	613.5 (0.3)	198Au (214.8)	620.1 (3.6)	197Pt (5846.3)
607.2 (0.1)	150Sm (334.0)	613.5 (2.0)	167Er (207.8)	620.1 (3.8)	238Np (5352.0)
607.2 (<0.1)	76As (165.0)	613.6 (<0.1)	200Hg (367.9)	620.2 (20.6)	142Pr (176.9)
607.3 (<0.1)	200Hg (367.9)	613.7 (0.7)	72Ga (145.1)	620.3 (<0.1)	110Ag (198.7)
607.4 (<0.1)	158Gd (181.9)	613.8 (100.0)	78Se (613.8)	620.4	124Sb
607.5 (2.4)	186Re (59.0)	614.0 (<0.1)	110Ag (198.7)	620.6 (3.5)	185Os (6588.0)
607.6 (5.5)	184W (111.2)	614.2 (1.0)	147Nd (314.7)	620.7 (<0.1)	158Gd (181.9)
607.7	169Yb	614.4 (0.1)	152Eu (89.8)	620.9 (<0.1)	156Gd (89.0)

Table I. CAPTURE γ 's - energy sorted (cont.)

By keV (% γ)	Nucleus (Strongest γ)	By keV (% γ)	Nucleus (Strongest γ)	By keV (% γ)	Nucleus (Strongest γ)
621.0 (0.1)	152Eu (89.8)	627.6 (5.5)	153Sm (127.3)	633.3 (<0.1)	158Gd (181.9)
621.0 (1.1)	186Re (59.0)	627.7 (1.1)	75Se (286.6)	633.4 (1.7)	173Yb (399.4)
621.1 (0.4)	68Zn (1077.4)	627.8 (0.2)	152Eu (89.8)	633.4 (1.2)	198Au (214.8)
621.1 (0.3)	77Se (238.9)	627.9	169Yb	633.6 (1.9)	104Rh (180.9)
621.1 (0.4)	177Lu (150.4)	628.0 (1.2)	114In (311.7)	633.7	124Sb
621.3 (1.0)	163Dy (351.1)	628.1 (2.4)	199Au (493.5)	633.8 (1.9)	163Dy (351.1)
621.4 (0.4)	105Ru (143.2)	628.2 (4.3)	140La (5097.9)	634.1 (3.8)	116In (273.0)
621.6 (6.3)	249Cm (1408.3)	628.2 (0.3)	144Nd (696.5)	634.2 (0.2)	77Se (238.9)
621.7 (4.2)	147Nd (314.7)	628.3 (<0.1)	160Tb (75.1)	634.2 (13.4)	142Pr (176.9)
621.8 (0.4)	235U (4155.1)	628.3 (0.7)	80Br (37.1)	634.2 (2.3)	162Dy (185.0)
621.8 (<0.1)	158Gd (181.9)	628.3 (<0.1)	178Hf (213.4)	634.4	128I
621.9 (0.9)	72Ga (145.1)	628.4	128I	634.7 (<0.1)	200Hg (367.9)
622.0 (0.6)	162Dy (185.0)	628.6 (0.1)	152Eu (89.8)	634.7	169Yb
622.1	169Yb	628.7 (<0.1)	156Gd (89.0)	634.8 (<0.1)	158Gd (181.9)
622.1 (<0.1)	156Gd (89.0)	628.8 (10.4)	63Ni (6034.0)	634.8 (1.7)	198Au (214.8)
622.2 (5.0)	134Cs (116.4)	628.8 (0.2)	200Hg (367.9)	634.9 (0.1)	75Se (286.6)
622.3 (0.6)	114In (311.7)	628.8 (1.6)	187W (5261.8)	635.0 (29.0)	188Os (155.0)
622.4 (0.8)	174Yb (176.6)	628.9 (0.7)	145Nd (852.8)	635.1 (0.8)	114In (311.7)
622.5 (1.4)	241Pu (4276.5)	629.0 (<0.1)	158Gd (181.9)	635.3	175Yb
622.6 (2.7)	170Tm (204.5)	629.0 (0.7)	233Th (3473.0)	635.4	169Yb
622.6 (1.7)	116In (273.0)	629.2 (0.1)	152Eu (89.8)	635.6 (0.8)	198Au (214.8)
622.8 (21.5)	153Sm (127.3)	629.3 (0.1)	68Zn (1077.4)	635.6 (0.2)	152Eu (89.8)
622.8 (<0.1)	114Cd (1660.3)	629.3 (0.3)	156Gd (89.0)	635.6 (4.0)	187W (5261.8)
622.8 (<0.1)	169Er (429.9)	629.7 (1.5)	182Ta (270.4)	635.7 (0.2)	158Gd (181.9)
622.8 (21.6)	187Os (427.1)	629.7 (19.9)	132Xe (667.5)	635.8 (1.7)	193Os (5276.0)
622.9 (10.6)	177Yb (151.6)	629.7 (8.6)	241Pu (4276.5)	635.9 (<0.1)	200Hg (367.9)
622.9 (0.6)	233Th (3473.0)	629.9 (9.4)	204Tl (139.9)	635.9 (1.2)	151Nd (4487.8)
623.0	177Hf	630.0 (2.7)	103Ru (174.0)	635.9 (1.3)	184W (111.2)
623.0 (12.0)	194Ir (371.7)	630.1 (2.9)	163Dy (351.1)	636.0 (8.4)	194Ir (371.7)
623.0	169Yb	630.1 (<0.1)	146Nd (7110.8)	636.1	169Yb
623.2 (<0.1)	200Hg (367.9)	630.2 (4.1)	249Cm (1408.3)	636.2 (<0.1)	156Gd (89.0)
623.3 (0.6)	198Au (214.8)	630.2 (38.0)	148Sm (550.0)	636.3 (1.2)	193Os (5276.0)
623.3 (6.8)	140La (5097.9)	630.2 (27.6)	153Sm (127.3)	636.5 (<0.1)	187Os (427.1)
623.3 (0.6)	173Yb (399.4)	630.3 (6.8)	72Ga (145.1)	636.6 (42.1)	185W (4573.6)
623.4	172Yb	630.5 (0.6)	198Au (214.8)	636.7 (3.9)	191Os (5147.1)
623.6 (0.8)	145Nd (852.8)	630.6 (0.1)	80Br (37.1)	636.7 (1.2)	80Br (37.1)
623.7 (1.2)	72Ga (145.1)	630.9 (0.1)	148Sm (550.0)	636.7 (5.8)	197Pt (5846.3)
623.9 (3.4)	188Os (155.0)	630.9 (2.8)	190Os (186.7)	636.8 (<0.1)	200Hg (367.9)
624.0	210Bi	631.0 (2.8)	186Re (59.0)	637.2 (0.5)	177Lu (150.4)
624.4 (3.6)	134Cs (116.4)	631.1 (0.4)	158Gd (181.9)	637.2 (1.4)	66Cu (185.9)
624.7	175Yb	631.2 (15.5)	142Pr (176.9)	637.2 (0.1)	158Gd (181.9)
624.7 (<0.1)	204Tl (139.9)	631.3 (8.5)	105Ru (143.2)	637.4 (3.3)	163Dy (351.1)
624.7 (9.2)	235U (4155.1)	631.5 (26.9)	147Nd (314.7)	637.4 (1.6)	158Gd (181.9)
624.9 (0.1)	152Eu (89.8)	631.5 (<0.1)	200Hg (367.9)	637.6	122Sb
625.0 (2.5)	66Cu (185.9)	631.7 (4.3)	168Er (6228.8)	637.8 (6.5)	177Yb (151.6)
625.1 (3.7)	198Au (214.8)	631.8	122Sb	637.8 (0.2)	233Th (3473.0)
625.1 (1.9)	176Lu (71.5)	631.9 (0.1)	78Se (613.8)	637.8 (35.8)	235U (4155.1)
625.3 (0.2)	177Lu (150.4)	632.0 (3.3)	70Ga (508.4)	637.9 (1.4)	72Ga (145.1)
625.5 (14.0)	197Pt (5846.3)	632.0 (8.7)	170Tm (204.5)	638.0 (0.4)	190Os (186.7)
625.7 (0.5)	114In (311.7)	632.0 (1.6)	198Au (214.8)	638.2 (2.4)	134Cs (116.4)
625.7 (1.4)	186Re (59.0)	632.1 (<0.1)	92Zr (934.5)	638.2 (18.5)	170Tm (204.5)
625.8 (<0.1)	158Gd (181.9)	632.2 (<0.1)	110Ag (198.7)	638.3 (0.5)	114In (311.7)
625.8 (10.5)	103Ru (174.0)	632.2 (3.9)	71Ge (499.8)	638.5 (0.1)	156Gd (89.0)
625.8	175Yb	632.2 (0.5)	233Th (3473.0)	638.5 (<0.1)	200Hg (367.9)
625.8 (5.6)	194Ir (371.7)	632.3 (<0.1)	114Cd (1660.3)	638.6 (0.1)	150Sm (334.0)
625.9 (<0.1)	76As (165.0)	632.3 (<0.1)	158Gd (181.9)	638.6	128I
626.3 (<0.1)	156Gd (89.0)	632.3 (0.3)	143Ce (4337.8)	638.8 (0.5)	168Er (6228.8)
626.3 (7.4)	185Os (6588.0)	632.4	169Yb	638.9 (12.0)	170Tm (204.5)
626.5 (<0.1)	200Hg (367.9)	632.4 (3.9)	116In (273.0)	639.0 (2.7)	103Ru (174.0)
626.6 (5.8)	188Re (63.6)	632.5 (<0.1)	76As (165.0)	639.1 (<0.1)	200Hg (367.9)
626.7 (9.4)	204Tl (139.9)	632.8 (1.6)	114In (311.7)	639.3	175Yb
626.8 (<0.1)	96Mo (778.3)	632.8 (<0.1)	200Hg (367.9)	639.4 (4.0)	71Ge (499.8)
627.1 (1.4)	233Th (3473.0)	632.9 (2.7)	176Lu (71.5)	639.5 (15.3)	86Rb (557.0)
627.2 (0.2)	158Gd (181.9)	632.9 (0.5)	177Lu (150.4)	639.8 (8.6)	241Pu (4276.5)
627.2 (<0.1)	156Gd (89.0)	633.1	169Yb	640.0 (<0.1)	169Er (429.9)
627.2 (1.2)	163Dy (351.1)	633.1 (20.0)	235U (4155.1)	640.1 (52.4)	185W (4573.6)
627.3 (100.0)	139Ba (627.3)	633.1 (3.0)	134Cs (116.4)	640.2 (10.9)	170Tm (204.5)
627.4 (0.2)	235U (4155.1)	633.2 (45.9)	188Os (155.0)	640.2 (8.7)	194Ir (371.7)
627.4 (2.4)	147Nd (314.7)	633.3 (<0.1)	178Hf (213.4)	640.3 (5.0)	198Au (214.8)
627.5 (28.3)	46Sc (227.8)	633.3 (6.5)	177Yb (151.6)	640.3 (64.7)	105Ru (143.2)

Table I. CAPTURE γ 's - energy sorted (cont.)

Ex keV (% γ)	Nucleus (Strongest γ)	Ex keV (% γ)	Nucleus (Strongest γ)	Ex keV (% γ)	Nucleus (Strongest γ)
640.4 (2.4)	235U (4155.1)	647.4 (<0.1)	158Gd (181.9)	655.5 (0.1)	152Eu (89.8)
640.6 (6.4)	140La (5097.9)	647.6 (4.7)	187W (5261.8)	655.6 (<0.1)	200Hg (367.9)
640.7 (0.6)	177Lu (150.4)	647.7 (7.7)	162Dy (185.0)	655.6 (0.9)	193Os (5276.0)
640.8 (<0.1)	152Eu (89.8)	648.0 (2.6)	116In (273.0)	655.7 (0.2)	156Gd (89.0)
640.9 (0.7)	202Hg (439.5)	648.0 (<0.1)	110Ag (198.7)	655.8 (0.4)	190Os (186.7)
640.9 (3.7)	187W (5261.8)	648.1 (0.2)	156Gd (89.0)	655.8 (<0.1)	236U (642.2)
641.0 (0.6)	114In (311.7)	648.2 (3.7)	238Np (5352.0)	655.9	124Sb
641.3	94Nb	648.3 (1.8)	80Br (37.1)	656.0	179Hf
641.4 (21.0)	147Nd (314.7)	648.6 (3.8)	134Cs (116.4)	656.3 (10.4)	187W (5261.8)
641.7 (0.2)	188Os (155.0)	648.7 (0.5)	198Au (214.8)	656.4 (1.0)	163Dy (351.1)
641.8 (0.5)	233Th (3473.0)	648.7 (<0.1)	105Ru (143.2)	656.6 (<0.1)	152Eu (89.8)
641.9 (4.2)	184W (111.2)	648.8 (10.0)	64Cu (7916.0)	657.0 (<0.1)	105Ru (143.2)
642.2 (100.0)	236U (642.2)	648.9 (1.4)	114In (311.7)	657.2 (3.5)	116In (273.0)
642.3 (2.0)	151Nd (4487.8)	648.9	128I	657.3	175Yb
642.3 (<0.1)	76As (165.0)	649.0 (0.4)	165Dy (108.2)	657.4 (0.2)	152Eu (89.8)
642.6 (0.7)	235U (4155.1)	649.2 (0.1)	78Se (613.8)	657.5 (6.0)	151Nd (4487.8)
642.7 (1.7)	147Nd (314.7)	649.2 (0.2)	233Th (3473.0)	658.0 (0.5)	75Se (286.6)
643.0 (1.4)	72Ga (145.1)	649.2 (93.5)	197Pt (5846.3)	658.1 (0.3)	156Gd (89.0)
643.1 (0.4)	198Au (214.8)	649.2 (<0.1)	200Hg (367.9)	658.1 (17.5)	187W (5261.8)
643.1 (0.3)	80Br (37.1)	649.5	81Se	658.1 (0.2)	152Eu (89.8)
643.1 (2.8)	46Sc (227.8)	649.5 (2.1)	235U (4155.1)	658.2 (0.3)	156Gd (89.0)
643.2 (10.1)	185Os (6588.0)	649.6 (0.5)	193Os (5276.0)	658.3 (4.9)	103Ru (174.0)
643.3 (<0.1)	200Hg (367.9)	649.8 (1.4)	153Sm (127.3)	658.3 (11.2)	140La (5097.9)
643.4 (7.7)	104Rh (180.9)	649.8 (1.1)	198Au (214.8)	658.3 (1.2)	72Ga (145.1)
643.7 (0.6)	163Dy (351.1)	650.0 (0.5)	145Nd (852.8)	658.4	122Sb
643.9 (0.4)	198Au (214.8)	650.0 (<0.1)	169Er (429.9)	658.4 (5.1)	249Cm (1408.3)
644.0 (<0.1)	105Ru (143.2)	650.0 (16.3)	170Tm (204.5)	658.6 (0.9)	114In (311.7)
644.2 (<0.1)	152Eu (89.8)	650.1 (7.0)	73Ge (326.0)	658.6	128I
644.2 (1.4)	114In (311.7)	650.4 (0.3)	72Ga (145.1)	658.7 (3.3)	197Pt (5846.3)
644.3 (0.2)	168Er (6228.8)	650.4 (0.3)	144Nd (696.5)	658.8 (<0.1)	168Er (6228.8)
644.6	210Bi	650.6 (<0.1)	146Nd (7110.8)	658.8 (18.5)	170Tm (204.5)
644.9 (9.3)	98Mo (787.4)	651.0 (0.5)	77Se (238.9)	658.9 (9.2)	235U (4155.1)
644.9 (<0.1)	200Hg (367.9)	651.1 (0.2)	55Cr (6246.4)	658.9 (1.8)	198Au (214.8)
645.3 (0.6)	145Nd (852.8)	651.1 (0.8)	182Ta (270.4)	659.0 (1.2)	145Nd (852.8)
645.3 (1.1)	186Re (59.0)	651.2 (0.2)	156Gd (89.0)	659.0 (0.1)	200Hg (367.9)
645.4 (0.9)	114In (311.7)	651.2 (21.3)	70Ga (508.4)	659.1 (0.1)	152Eu (89.8)
645.5 (0.3)	143Ce (4337.8)	651.2 (8.9)	114Cd (1660.3)	659.1 (0.3)	98Mo (787.4)
645.6 (0.4)	168Er (6228.8)	651.3 (0.8)	186Re (59.0)	659.1 (0.8)	233Th (3473.0)
645.6 (11.6)	124Te (602.4)	651.4 (<0.1)	200Hg (367.9)	659.6 (0.5)	177Lu (150.4)
645.6 (1.2)	116In (273.0)	651.6 (83.3)	187Os (427.1)	659.9 (31.4)	153Sm (127.3)
645.7 (35.1)	142Pr (176.9)	651.9 (12.6)	235U (4155.1)	660.0 (2.5)	72Ga (145.1)
645.7 (64.0)	52V (125.1)	652.0 (0.3)	143Nd (742.1)	660.2	169Yb
645.7 (4.2)	167Er (207.8)	652.0 (0.5)	78Se (613.8)	660.2 (<0.1)	156Gd (89.0)
645.8	210Bi	652.5 (1.7)	114In (311.7)	660.4 (0.2)	158Gd (181.9)
645.8 (3.6)	134Cs (116.4)	652.6 (0.4)	177Lu (150.4)	660.6 (4.5)	80Br (37.1)
645.8 (3.6)	77Se (238.9)	652.7 (0.1)	188Os (155.0)	660.8 (1.7)	176Lu (71.5)
645.9 (1.3)	72Ga (145.1)	652.8 (<0.1)	110Ag (198.7)	660.8 (<0.1)	158Gd (181.9)
646.0 (4.9)	70Ga (508.4)	652.9 (<0.1)	200Hg (367.9)	661.1 (0.1)	152Eu (89.8)
646.0	124Sb	653.1 (<0.1)	158Gd (181.9)	661.2 (1.2)	167Er (207.8)
646.0 (13.7)	235U (4155.1)	653.6 (<0.1)	158Gd (181.9)	661.2 (0.9)	198Au (214.8)
646.1 (0.4)	158Gd (181.9)	653.7 (0.2)	202Hg (439.5)	661.4 (6.9)	200Hg (367.9)
646.1 (0.3)	152Eu (89.8)	653.7 (0.9)	198Au (214.8)	661.4 (<0.1)	158Gd (181.9)
646.2 (0.2)	156Gd (89.0)	653.8 (0.4)	143Nd (742.1)	661.5 (7.0)	103Ru (174.0)
646.2 (<0.1)	200Hg (367.9)	654.0 (<0.1)	158Gd (181.9)	661.5 (0.3)	98Mo (787.4)
646.2 (0.1)	78Se (513.8)	654.3 (0.8)	114Cd (1660.3)	661.6 (3.6)	187W (5261.8)
646.3 (5.8)	105Ru (143.2)	654.3 (<0.1)	156Gd (89.0)	661.7 (1.8)	174Yb (176.6)
646.3 (3.5)	153Sm (127.3)	654.3 (<0.1)	187Os (427.1)	661.8 (0.6)	233Th (3473.0)
646.3 (1.4)	188Os (155.0)	654.4 (1.5)	235U (4155.1)	662.0 (100.0)	141Ce (662.0)
646.3	210Bi	654.6 (0.6)	198Au (214.8)	662.1 (9.8)	194Ir (371.7)
646.3 (<0.1)	233Th (3473.0)	654.6 (<0.1)	68Zn (1077.4)	662.2 (0.6)	116In (273.0)
646.4 (1.1)	182Ta (270.4)	654.6	179Hf	662.2 (<0.1)	156Gd (89.0)
646.4 (1.9)	50Mn (26.6)	654.7 (<0.1)	158Gd (181.9)	662.2 (<0.1)	168Er (6228.8)
646.6 (1.4)	184W (111.2)	654.9 (7.2)	142Pr (176.9)	662.3 (<0.1)	110Ag (198.7)
646.6 (2.0)	188Re (63.6)	654.9 (1.5)	116In (273.0)	662.3 (4.2)	177Yb (151.6)
646.8 (4.2)	238Np (5352.0)	655.0 (<0.1)	110Ag (198.7)	662.9 (4.2)	188Re (63.6)
646.8 (1.3)	198Au (214.8)	655.1 (1.8)	198Au (214.8)	662.9 (2.4)	153Sm (127.3)
647.1 (1.4)	198Au (214.8)	655.2 (0.3)	143Nd (742.1)	663.0 (2.4)	151Nd (4487.8)
647.2 (0.1)	177Lu (150.4)	655.3 (3.3)	81Ni (7819.6)	663.1 (7.0)	64Cu (7916.0)
647.2 (0.1)	152Eu (89.8)	655.4 (0.6)	184W (111.2)	663.2 (0.4)	77Se (238.9)
647.3	169Yb	655.4	169Yb	663.3 (2.4)	137Cs (116.4)

Table I. CAPTURE γ 's - energy sorted (cont.)

Ex keV (γ)	Nucleus (Strongest γ)	Ex keV (γ)	Nucleus (Strongest γ)	Ex keV (γ)	Nucleus (Strongest γ)
663.4 (6.5)	170Tm (204.5)	669.8 (0.5)	116In (273.0)	678.3 (4.9)	151Nd (4487.8)
663.4 (4.1)	171Er (197.9)	670.3 (9.7)	169Yb (89.0)	678.5 (0.7)	62Ni (1172.8)
663.6 (2.1)	142Pr (176.9)	670.3 (0.6)	187W (5261.8)	678.5 (0.4)	77Se (238.9)
663.6 (6.5)	1910s (5147.1)	670.5 (0.1)	156Gd (89.0)	678.6 (0.6)	80Br (37.1)
663.7 (1.2)	52V (125.1)		175Hf	678.7	169Yb
663.8 (<0.1)	110Ag (198.7)	670.7 (0.9)	114In (311.7)	678.8 (0.1)	158Gd (181.9)
663.8	124Sb	670.7 (1.9)	235U (4155.1)	678.8 (2.5)	204Tl (139.9)
663.8 (1.2)	163Dy (351.1)	670.9 (0.3)	68Zn (1077.4)	678.8 (0.4)	198Au (214.8)
663.8 (0.4)	198Au (214.8)	671.0 (<0.1)	71Ge (499.8)	678.9 (1.0)	241Pu (4276.5)
664.2 (65.4)	185W (4573.6)	671.1 (0.1)	77Se (238.9)	679.1 (5.0)	194Ir (371.7)
664.3 (<0.1)	1870s (427.1)	671.2 (0.4)	184W (111.2)	679.3 (4.2)	73Ge (326.0)
664.4 (6.7)	235U (4155.1)	671.3 (1.8)	136Ba (818.6)	679.6 (1.2)	114In (311.7)
664.4 (0.1)	158Gd (181.9)	671.3 (2.4)	241Pu (4276.5)	679.6 (0.3)	116In (273.0)
664.5 (5.4)	199Au (493.5)	671.4 (1.3)	162Dy (185.0)	679.8 (0.9)	1900s (186.7)
665.0 (0.7)	105Ru (143.2)	671.4 (0.5)	198Au (214.8)	679.8 (6.5)	170Tm (204.5)
665.0	179Hf	671.6 (11.8)	1870s (427.1)	679.9 (0.6)	198Au (214.8)
665.0 (3.7)	233Th (3473.0)	671.9 (0.8)	177Lu (150.4)	680.0 (2.1)	186Re (59.0)
665.1 (<0.1)	156Gd (89.0)	672.0 (1.4)	141Ce (662.0)	680.0 (1.5)	235U (4155.1)
665.1 (<0.1)	169Er (429.9)	672.2	81Se	680.1	175Yb
665.4 (0.8)	60Co (229.8)	672.2 (1.2)	163Dy (351.1)	680.2 (0.1)	152Eu (89.8)
665.6 (0.5)	177Lu (150.4)	672.2 (0.3)	116In (273.0)	680.3 (4.1)	202Hg (439.5)
665.7 (1.1)	114In (311.7)	672.3 (0.8)	158Gd (181.9)	680.4 (2.5)	60Co (229.8)
665.9 (0.4)	198Au (214.8)	672.3 (3.9)	198Au (214.8)	680.6 (<0.1)	92Zr (934.5)
665.9 (29.4)	1870s (427.1)	672.4 (0.2)	156Gd (89.0)	680.6 (2.4)	241Pu (4276.5)
666.0 (2.1)	188Re (63.6)	672.6 (2.1)	1880s (155.0)	680.7 (1.0)	158Gd (181.9)
666.0 (<0.1)	143Nd (742.1)	672.6 (2.5)	98Mo (787.4)	680.8 (0.2)	177Lu (150.4)
666.2 (0.2)	77Se (238.9)	672.7 (2.4)	176Lu (71.5)	681.0 (<0.1)	156Gd (89.0)
666.5 (1.5)	139Ba (627.3)	673.0 (0.4)	77Se (238.9)	681.0 (0.2)	152Eu (89.8)
666.5	172Yb	673.0 (2.1)	188Re (63.6)	681.3 (<0.1)	144Nd (696.5)
666.5 (0.2)	158Gd (181.9)	673.1 (1.0)	198Au (214.8)	681.6 (0.6)	145Nd (852.8)
666.6 (0.1)	156Gd (89.0)	673.1 (0.8)	145Nd (852.8)	681.7 (4.4)	153Sm (127.3)
666.8 (0.9)	147Nd (314.7)	673.2 (3.5)	196Pt (356.1)	681.8 (1.0)	140La (5097.9)
666.8 (4.2)	177Yb (151.6)	673.3 (0.3)	114In (311.7)	681.8 (3.7)	233Th (3473.0)
666.8 (<0.1)	110Ag (198.7)	673.5 (0.3)	168Er (6228.8)	681.9 (<0.1)	200Hg (367.9)
666.9 (5.4)	194Ir (371.7)	673.7 (10.6)	164Dy (73.4)	682.2 (1.1)	147Nd (314.7)
667.1 (1.8)	87Sr (8039.8)	674.0	210Bi	682.5 (2.9)	134Cs (116.4)
667.1 (0.2)	1890s (155.0)	674.1 (0.9)	158Gd (181.9)	682.5 (0.4)	198Au (214.8)
667.2 (<0.1)	158Gd (181.9)	674.2 (4.5)	173Yb (399.4)	682.6	124Sb
667.2 (5.4)	170Tm (204.5)	674.3	169Yb	682.6 (<0.1)	158Gd (181.9)
667.3 (0.6)	233Th (3473.0)	674.3 (<0.1)	200Hg (367.9)	683.0 (<0.1)	156Gd (89.0)
667.5 (100.0)	132Xe (667.5)	674.3 (<0.1)	146Nd (7110.8)	683.2 (10.0)	194Ir (371.7)
667.5 (0.6)	144Nd (696.5)	674.6 (0.7)	198Au (214.8)	683.3 (<0.1)	146Nd (7110.8)
667.6 (8.4)	140La (5097.9)	674.7 (1.1)	174Yb (176.6)	683.3 (1.5)	249Cm (1408.3)
667.6 (0.2)	150Sm (334.0)	674.7 (0.3)	156Gd (89.0)	683.8 (0.1)	143Nd (742.1)
667.8 (0.9)	1930s (5276.0)	674.7 (0.1)	152Eu (89.8)	684.0 (<0.1)	110Ag (198.7)
667.9	169Yb	674.8 (1.8)	80Br (37.1)	684.0 (2.1)	105Ru (143.2)
667.9 (0.3)	145Nd (852.8)	675.2 (18.6)	185W (4573.6)	684.2 (0.7)	145Nd (852.8)
667.9 (0.4)	152Eu (89.8)	675.3 (2.4)	153Sm (127.3)	684.2 (2.8)	188Re (63.6)
667.9 (3.0)	153Eu (97.4)	675.4	124Sb	684.4 (0.2)	158Gd (181.9)
668.0 (1.3)	176Lu (71.5)	675.4 (1.1)	158Gd (181.9)	684.4 (0.2)	156Gd (89.0)
668.1 (0.4)	80Br (37.1)	675.5 (1.2)	182Ta (270.4)	684.6 (<0.1)	242Pu (5476.9)
668.2 (1.3)	147Nd (314.7)	675.5 (1.8)	198Au (214.8)	684.9 (1.5)	80Br (37.1)
668.2 (1.1)	198Au (214.8)	675.7 (<0.1)	158Gd (181.9)	684.9 (0.5)	233Th (3473.0)
668.2 (0.3)	156Gd (89.0)	675.8 (3.1)	150Sm (334.0)	685.0 (0.4)	114In (311.7)
668.3 (0.4)	167Er (207.8)	675.9	169Yb	685.2 (<0.1)	200Hg (367.9)
668.4 (<0.1)	146Nd (7110.8)	676.0 (2.7)	75Se (286.6)	685.3 (3.2)	199Au (493.5)
668.5 (1.3)	72Ga (145.1)	676.1 (2.9)	197Pt (5846.3)	685.5 (0.6)	116In (273.0)
668.5 (0.3)	156Gd (89.0)	676.2 (0.2)	200Hg (367.9)	685.7 (0.3)	152Eu (89.8)
668.6 (2.5)	151Nd (4487.8)	676.2 (1.4)	188Re (63.6)	685.7 (2.0)	46Sc (227.8)
668.6	124Sb	676.4 (1.1)	114In (311.7)	685.9 (0.7)	51V (1609.3)
668.8 (4.8)	163Dy (351.1)	676.5 (0.2)	77Se (238.9)	685.9 (5.3)	235U (4155.1)
669.1 (0.3)	75Se (286.6)	676.5 (0.4)	145Nd (852.8)	686.3 (0.2)	158Gd (181.9)
669.1 (4.2)	86Rb (557.0)	676.9 (1.3)	187W (5261.8)	686.6 (1.6)	198Au (214.8)
669.2 (0.6)	174Yb (176.6)	676.9 (<0.1)	152Eu (89.8)	686.9 (2.1)	105Ru (143.2)
669.2 (8.3)	1850s (6588.0)	677.1 (<0.1)	146Nd (7110.8)	687.0 (0.7)	80Br (37.1)
669.3 (0.4)	158Gd (181.9)	677.2 (0.3)	143Nd (742.1)	687.0 (0.5)	156Gd (89.0)
669.4 (<0.1)	152Eu (89.8)	677.4 (<0.1)	200Hg (367.9)	687.1	124Sb
669.5 (5.4)	170Tm (204.5)	678.1 (0.2)	103Ru (174.0)	687.1 (<0.1)	200Hg (367.9)
669.6 (<0.1)	76As (165.0)	678.2 (0.1)	143Nd (742.1)	687.2 (2.1)	184W (111.2)
669.6 (36.4)	171Yb (6614.7)	678.2 (1.3)	162Dy (185.0)	687.2 (9.3)	142Pr (176.9)

Table I. CAPTURE γ 's - energy sorted (cont.)

By keV (χ_{17})	Nucleus (Strongest γ)	By keV (χ_{17})	Nucleus (Strongest γ)	By keV (χ_{17})	Nucleus (Strongest γ)
687.3 (8.0)	184Ir (371.7)	695.8 (1.7)	239Pu (4821.8)	704.2 (13.0)	170Tm (204.5)
687.5 (31.0)	238U (642.2)	695.7 (<0.1)	200Hg (367.9)	704.4 (0.4)	103Ru (174.0)
687.8 (3.3)	78Se (613.8)	696.2 (6.5)	177Yb (151.6)	704.5 (1.3)	156Gd (89.0)
688.0 (<0.1)	150Sm (334.0)	696.3 (<0.1)	156Gd (89.0)	704.7 (1.5)	80Br (37.1)
688.2 (0.1)	152Eu (89.8)	696.3 (0.9)	233Th (3473.0)	704.8 (1.4)	163Dy (351.1)
688.2 (0.2)	158Gd (181.9)	696.5	128I	704.9 (<0.1)	233Th (3473.0)
688.4 (0.6)	177Lu (150.4)	696.5 (100.0)	144Nd (696.5)	704.9 (0.1)	77Se (238.9)
688.5 (25.2)	164Dy (73.4)	696.5 (3.5)	196Pt (356.1)	704.9 (<0.1)	169Er (429.9)
688.7 (2.4)	241Pu (4278.5)	696.9 (0.3)	143Ce (4337.8)	704.9 (<0.1)	158Gd (181.9)
688.8 (1.7)	158Gd (181.9)	697.2	175Yb	705.0 (8.8)	57Fe (7631.6)
688.9 (1.5)	77Se (238.9)	697.3 (<0.1)	158Gd (181.9)	705.1 (<0.1)	233Th (3473.0)
688.9 (1.0)	114In (311.7)	697.4 (10.0)	162Dy (185.0)	705.2 (0.2)	152Eu (89.8)
688.9 (0.8)	200Hg (367.9)	697.6 (0.5)	98Mo (787.4)	705.2 (<0.1)	150Sm (334.0)
689.0 (<0.1)	196Pt (356.1)	697.8 (1.0)	198Au (214.8)	705.2 (1.0)	162Dy (185.0)
689.1 (<0.1)	168Er (6228.8)	697.9 (<0.1)	158Gd (181.9)	705.3	124Sb
689.4 (3.9)	153Sm (127.3)	697.9 (3.3)	140La (5097.9)	705.5	128I
689.6 (<0.1)	156Gd (89.0)	697.9 (1.8)	156Gd (89.0)	705.5 (7.2)	142Pr (176.9)
689.7 (1.8)	177Lu (150.4)	698.2 (5.0)	52V (125.1)	705.5	210Bi
689.7 (0.5)	140La (5097.9)	698.3 (1.6)	235U (4155.1)	705.7 (5.2)	249Cm (1408.3)
689.7 (2.7)	198Au (214.8)	698.4	175Yb	705.7 (0.1)	96Mo (778.3)
689.9 (1.5)	186Re (59.0)	698.4 (0.2)	188Os (155.0)	705.7 (<0.1)	158Gd (181.9)
690.1 (4.5)	80Br (37.1)	698.4 (5.3)	153Sm (127.3)	706.1 (<0.1)	73Ge (326.0)
690.2	94Nb	698.5 (15.9)	177Yb (151.6)	706.2 (1.2)	116In (273.0)
690.3 (<0.1)	200Hg (367.9)	698.6 (1.3)	198Au (214.8)	706.3 (<0.1)	200Hg (367.9)
690.5 (0.5)	198Au (214.8)	698.6 (0.6)	158Gd (181.9)	706.4 (3.2)	199Au (493.5)
690.9	169Yb	698.6 (<0.1)	110Ag (198.7)	706.4 (<0.1)	76As (165.0)
691.0 (64.0)	70Ca (508.4)	698.8 (0.2)	143Nd (742.1)	706.6 (9.8)	187W (5261.8)
691.0 (0.3)	190Os (186.7)	698.9 (17.3)	171Yb (6614.7)	706.9 (1.2)	103Ru (174.0)
691.0 (2.9)	235U (4155.1)	698.9 (13.0)	194Ir (371.7)	706.9 (11.6)	171Er (197.9)
691.1 (18.6)	171Yb (6614.7)	698.9 (<0.1)	236U (642.2)	707.1 (3.5)	153Sm (127.3)
691.1 (<0.1)	158Gd (181.9)	699.6 (0.1)	152Eu (89.8)	707.2 (0.8)	173Yb (399.4)
691.2 (64.0)	70Ca (508.4)	699.6 (9.7)	147Nd (314.7)	707.3 (0.7)	114Cd (1660.3)
691.8 (2.4)	167Er (207.8)	699.8 (20.6)	142Pr (176.9)	707.3 (4.3)	170Tm (204.5)
691.9 (12.1)	86Rb (557.0)	699.9 (<0.1)	168Er (6228.8)	707.4 (0.4)	80Br (37.1)
691.9 (0.1)	156Gd (89.0)	700.1 (0.5)	92Zr (934.5)	707.4	175Yb
692.0 (2.0)	176Lu (71.5)	700.2 (<0.1)	200Hg (367.9)	707.5 (0.8)	158Gd (181.9)
692.1 (12.0)	194Ir (371.7)	700.3 (<0.1)	68Zn (1077.4)	707.7 (3.3)	163Dy (351.1)
692.1 (<0.1)	158Gd (181.9)	700.3 (<0.1)	147Nd (742.1)	707.8	169Yb
692.2 (18.0)	57Fe (7631.6)	700.3 (2.2)	235U (4155.1)	708.1 (0.1)	124Te (602.4)
692.2 (2.1)	65Ni (6034.0)	700.6 (<0.1)	158Gd (181.9)	708.1 (0.2)	151Nd (4487.8)
692.2 (0.4)	80Br (37.1)	700.7 (0.2)	152Eu (89.8)	708.2 (48.4)	71Ge (499.8)
692.3 (1.2)	105Ru (143.2)	700.8	128I	708.2 (1.0)	77Se (238.9)
692.3 (0.4)	198Au (214.8)	701.2 (0.7)	198Au (214.8)	708.2 (26.2)	145Nd (852.8)
692.4 (3.3)	170Tm (204.5)	701.2 (<0.1)	187Os (427.1)	708.2 (<0.1)	156Gd (89.0)
692.5 (1.1)	103Ru (174.0)	701.4 (3.8)	188Re (63.6)	708.2 (0.2)	98Mo (787.4)
692.5 (<0.1)	141Ce (662.0)	701.5 (5.5)	74Ge (595.7)	708.3 (13.3)	140La (5097.9)
692.8 (0.2)	233Th (3473.0)	701.6 (0.7)	200Hg (367.9)	708.3 (33.6)	197Pt (5846.3)
693.0 (14.7)	114In (311.7)	701.6 (0.6)	114In (311.7)	708.4 (0.3)	188Os (155.0)
693.2 (4.2)	153Sm (127.3)	701.7 (0.2)	75Se (286.6)	708.5 (0.7)	114In (311.7)
693.3 (0.2)	198Au (214.8)	701.8 (<0.1)	177Lu (150.4)	708.6 (<0.1)	158Gd (181.9)
693.4 (3.6)	116In (273.0)	701.8 (0.3)	233Th (3473.0)	708.6 (3.2)	134Cs (116.4)
693.5 (1.9)	114In (311.7)	701.9 (3.9)	147Nd (314.7)	708.6 (0.4)	190Os (186.7)
693.8 (<0.1)	158Gd (181.9)	701.9 (5.2)	197Pt (5846.3)	709.0 (2.8)	72Ca (145.1)
694.0 (0.3)	143Nd (742.1)	702.1 (3.6)	80Br (37.1)	709.1 (22.0)	194Ir (371.7)
694.0 (2.0)	144Nd (696.5)	702.1 (0.4)	146Nd (7110.8)	709.2 (3.6)	193Os (5276.0)
694.0 (2.5)	235U (4155.1)	702.1 (3.5)	198Au (214.8)	709.3	124Sb
694.1 (3.5)	186Re (59.0)	702.3 (<0.1)	158Gd (181.9)	709.3 (1.2)	198Au (214.8)
694.1 (2.3)	188Re (63.6)	702.5 (3.3)	104Rh (180.9)	709.3 (<0.1)	200Hg (367.9)
694.1 (<0.1)	200Hg (367.9)	702.6 (3.3)	153Sm (127.3)	709.4 (2.5)	176Lu (71.5)
694.2 (10.3)	187W (5261.8)	702.8 (0.1)	152Eu (89.8)	709.6 (1.9)	188Re (63.6)
694.3 (0.3)	84Kr (881.8)	702.8 (0.1)	168Er (6228.8)	709.7 (<0.1)	96Mo (778.3)
694.3 (1.0)	103Ru (174.0)	703.0	124Sb	710.0 (9.8)	170Tm (204.5)
694.7 (<0.1)	158Gd (181.9)	703.0 (<0.1)	156Gd (89.0)	710.0 (0.5)	177Lu (150.4)
694.8 (21.7)	78Se (613.8)	703.0 (0.7)	116In (273.0)	710.1 (5.2)	184W (111.2)
694.9	128I	703.1 (0.3)	62Ni (1172.8)	710.1 (0.6)	198Au (214.8)
694.9 (0.5)	167Er (207.8)	703.4	169Yb	710.2 (1.7)	105Ru (143.2)
695.0 (<0.1)	169Er (429.9)	703.4 (<0.1)	188Os (155.0)	710.2 (0.6)	156Gd (89.0)
695.0 (3.6)	197Pt (5846.3)	703.6 (0.1)	152Eu (89.8)	710.2 (0.1)	233Th (3473.0)
695.1	124Sb	703.7 (7.2)	235U (4155.1)	710.2 (<0.1)	200Hg (367.9)
695.3 (1.4)	177Lu (150.4)	703.8 (0.1)	200Hg (367.9)	710.3 (<0.1)	158Gd (181.9)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV (χ_{17})	Nucleus (Strongest γ)	E_{γ} keV (χ_{17})	Nucleus (Strongest γ)	E_{γ} keV (χ_{17})	Nucleus (Strongest γ)
710.4 (6.6)	140La (5097.9)	718.3 (1.1)	202Hg (439.5)	727.4 (6.4)	153Sm (127.3)
710.4 (7.6)	60Co (229.8)	718.6 (<0.1)	200Hg (367.9)	727.4 (<0.1)	156Gd (89.0)
710.9 (<0.1)	200Hg (367.9)	718.6 (5.2)	142Pr (176.9)	727.5 (0.2)	144Nd (696.5)
711.0 (1.6)	46Sc (227.8)	718.8 (0.3)	188Os (155.0)	727.6 (0.4)	177Lu (150.4)
711.0 (<0.1)	158Gd (181.9)	718.9	122Sb	727.8 (6.3)	86Rb (557.0)
711.3 (1.5)	116In (273.0)	719.0 (3.3)	116In (273.0)	728.0 (31.0)	59Fe (287.0)
711.3 (0.6)	114In (311.7)	719.5 (14.4)	96Mo (778.3)	728.1 (2.2)	186Re (59.0)
711.5 (5.7)	163Dy (351.1)	719.5 (0.5)	177Lu (150.4)	728.2 (1.3)	235U (4155.1)
711.6 (5.4)	184W (111.2)	719.6 (3.8)	114In (311.7)	728.4 (2.4)	114In (311.7)
711.7 (<0.1)	187Os (427.1)	720.0	169Yb	728.4 (0.9)	147Nd (314.7)
711.7 (0.6)	77Se (238.9)	720.1 (0.8)	177Lu (150.4)	728.4 (<0.1)	200Hg (367.9)
711.7 (<0.1)	156Gd (89.0)	720.2 (1.5)	168Er (6228.8)	728.5 (0.8)	198Au (214.8)
711.7 (<0.1)	200Hg (367.9)	720.2 (<0.1)	68Zn (1077.4)	728.7 (0.5)	162Dy (185.0)
712.1 (4.8)	150Sm (334.0)	720.2 (<0.1)	200Hg (367.9)	729.2	175Yb
712.5 (0.2)	158Gd (181.9)	720.4 (14.1)	170Tm (204.5)	729.5 (9.3)	142Pr (176.9)
712.9 (<0.1)	124Te (602.4)	721.0 (<0.1)	200Hg (367.9)	729.6 (0.5)	198Au (214.8)
712.9	179Hf	721.3 (<0.1)	156Gd (89.0)	729.6 (<0.1)	146Nd (7110.8)
713.0 (8.7)	52V (125.1)	721.4 (<0.1)	158Gd (181.9)	729.7 (0.2)	152Eu (89.8)
713.0 (42.2)	187Os (427.1)	721.5 (2.1)	80Br (37.1)	730.5 (<0.1)	156Gd (89.0)
713.1 (3.8)	201Tl (139.9)	721.6 (1.2)	96Mo (778.3)	730.6 (6.8)	168Er (6228.8)
713.2 (0.4)	168Er (6228.8)	721.6 (0.5)	233Th (3473.0)	730.8 (0.3)	177Lu (150.4)
713.2 (8.4)	194Ir (371.7)	721.6 (<0.1)	146Nd (7110.8)	730.8 (0.2)	152Eu (89.8)
713.4 (18.3)	145Nd (852.8)	721.9 (6.3)	46Sc (227.8)	730.8 (4.1)	116In (273.0)
713.5 (0.2)	158Gd (181.9)	722.0 (1.5)	153Sm (127.3)	730.9 (0.9)	147Nd (314.7)
713.5 (1.0)	162Dy (185.0)	722.0 (0.9)	62Ni (1172.8)	731.1 (0.6)	141In (311.7)
713.5 (<0.1)	152Eu (89.8)	722.2 (<0.1)	200Hg (367.9)	731.1 (0.7)	80Br (37.1)
713.6 (<0.1)	233Th (3473.0)	722.4 (23.0)	124Te (602.4)	731.3 (1.1)	150Sm (334.0)
713.6 (0.8)	151Nd (4487.8)	722.6 (0.2)	144Nd (696.5)	731.4 (<0.1)	190Os (186.7)
713.8 (1.6)	116In (273.0)	722.6 (0.6)	193Os (5276.0)	731.6 (0.6)	143Ce (4337.8)
713.9 (2.6)	98Mo (787.4)	722.7 (3.3)	176Lu (71.5)	731.7 (1.8)	103Ru (174.0)
713.9 (<0.1)	200Hg (367.9)	722.7 (30.6)	98Mo (787.4)	732.2 (<0.1)	169Er (429.9)
714.0 (0.9)	177Lu (150.4)	722.8 (<0.1)	105Ru (143.2)	732.3 (9.7)	136Ba (818.6)
714.1 (4.3)	105Ru (143.2)	722.8 (25.5)	140La (5097.9)	732.3 (<0.1)	202Hg (439.5)
714.1	175Hf	722.9 (0.6)	198Au (214.8)	732.3 (12.7)	187Os (427.1)
714.2 (0.4)	193Os (5276.0)	723.0 (0.7)	156Gd (89.0)	732.6 (1.1)	198Au (214.8)
714.2 (9.0)	199Au (493.5)	723.0	172Yb	732.7 (0.3)	152Eu (89.8)
714.2 (0.7)	173Yb (399.4)	723.4 (1.1)	138Ba (1435.6)	733.0 (0.6)	77Se (238.9)
714.3 (<0.1)	156Gd (89.0)	723.6 (<0.1)	110Ag (198.7)	733.1 (0.1)	204Tl (139.9)
714.4 (4.7)	235U (4155.1)	724.0 (0.6)	80Br (37.1)	733.1 (<0.1)	158Gd (181.9)
714.5 (<0.1)	158Gd (181.9)	724.1 (0.2)	168Er (6228.8)	733.3 (2.1)	103Ru (174.0)
714.5 (<0.1)	169Er (429.9)	724.1 (8.7)	170Tm (204.5)	733.4 (<0.1)	200Hg (367.9)
714.7 (0.1)	143Nd (742.1)	724.3 (0.6)	233Th (3473.0)	733.4 (0.4)	198Au (214.8)
714.8 (3.9)	188Re (63.6)	724.3 (0.4)	235U (4155.1)	733.5 (0.4)	235U (4155.1)
714.9 (15.0)	153Sm (127.3)	724.3 (0.6)	198Au (214.8)	733.6 (1.2)	163Dy (351.1)
715.1 (<0.1)	233Th (3473.0)	724.4 (8.8)	184W (111.2)	733.7 (0.1)	68Zn (1077.4)
715.1 (2.1)	186Re (59.0)	724.4 (11.4)	249Cm (1408.3)	733.7 (4.3)	75Se (286.6)
715.2 (3.1)	171Er (197.9)	724.5 (0.7)	145Nd (852.8)	733.7 (0.8)	78Se (613.8)
715.2 (1.0)	168Er (6228.8)	724.6 (<0.1)	146Nd (7110.8)	733.8 (6.4)	116Sn (1293.5)
715.3 (2.4)	199Au (493.5)	724.7 (<0.1)	110Ag (198.7)	733.8 (0.2)	144Nd (696.5)
715.4 (7.5)	185W (4573.6)	724.8 (<0.1)	200Hg (367.9)	734.0 (16.1)	185W (4573.6)
715.9 (<0.1)	158Gd (181.9)	724.9 (0.3)	77Se (238.9)	734.0 (<0.1)	190Os (186.7)
716.0 (0.2)	152Eu (89.8)	724.9 (2.9)	114Cd (1660.3)	734.2 (0.3)	152Eu (89.8)
716.2 (0.8)	80Br (37.1)	725.0 (<0.1)	196Pt (356.1)	734.3 (<0.1)	158Gd (181.9)
716.3 (1.3)	156Gd (89.0)	725.1 (3.2)	190Os (186.7)	734.4 (0.7)	114In (311.7)
716.4 (33.6)	101Mo (180.7)	725.1 (<0.1)	158Gd (181.9)	734.7 (0.3)	156Gd (89.0)
716.4 (4.1)	56Mn (26.6)	725.4 (2.2)	114In (311.7)	734.8 (0.2)	193Os (5276.0)
716.6 (1.5)	105Ru (143.2)	725.7 (1.5)	188Re (63.6)	734.8 (2.1)	205Pb (6731.5)
716.6 (18.6)	187Os (427.1)	725.7	175Yb	734.8 (0.6)	233Th (3473.0)
716.7 (1.1)	177Lu (150.4)	725.7 (<0.1)	187Os (427.1)	734.8 (<0.1)	98Mo (787.4)
716.8 (<0.1)	146Nd (7110.8)	726.0 (0.3)	65Ni (6034.0)	734.9 (25.0)	153Sm (127.3)
717.0 (0.3)	198Au (214.8)	726.0 (4.1)	187W (5261.8)	735.1 (0.6)	193Os (5276.0)
717.1 (1.9)	116In (273.0)	726.1 (2.4)	163Dy (351.1)	735.3 (0.7)	158Gd (181.9)
717.3 (11.0)	60Co (229.8)	726.4	169Yb	735.5 (4.9)	199Au (493.5)
717.3 (14.0)	106Pd (513.0)	726.8 (4.5)	147Nd (314.7)	735.7 (3.3)	235U (4155.1)
717.7 (1.0)	138Ba (1435.6)	726.9 (8.6)	60Co (229.8)	735.8 (<0.1)	242Pu (5476.9)
717.9 (10.0)	194Ir (371.7)	726.9 (0.2)	188Os (155.0)	735.9 (3.9)	146Nd (7110.8)
718.0 (<0.1)	200Hg (367.9)	727.1 (0.9)	103Ru (174.0)	736.0 (<0.1)	78As (165.0)
718.1 (<0.1)	156Gd (89.0)	727.2 (<0.1)	76As (165.0)	736.3 (0.6)	177Lu (150.4)
718.2 (5.9)	235U (4155.1)	727.2 (2.0)	176Lu (71.5)	736.3 (0.6)	174Yb (176.6)
718.3 (1.0)	174Yb (176.6)	727.3 (<0.1)	158Gd (181.9)	736.5 (0.1)	158Gd (181.9)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)
736.9 (5.6)	96Mo (778.3)	744.6 (3.3)	239Pu (4821.8)	751.9 (0.2)	158Gd (181.9)
736.9 (7.5)	103Ru (174.0)	744.7 (29.1)	185W (4573.6)	752.2	169Yb
736.9 (1.1)	105Ru (143.2)	744.8 (<0.1)	68Zn (1077.4)	752.4 (0.6)	233Th (3473.0)
737.1 (9.8)	75Ge (574.7)	744.9 (<0.1)	158Gd (181.9)	752.5 (4.2)	239Pu (4821.8)
737.1 (3.0)	140La (5097.9)	745.2 (<0.1)	146Nd (7110.8)	752.7 (7.3)	199Au (493.5)
737.1 (9.4)	204Tl (139.9)	745.2 (<0.1)	200Hg (367.9)	753.0 (<0.1)	178Hf (213.4)
737.2 (0.7)	116In (273.0)	746.0 (12.8)	187W (5261.8)	753.1 (2.1)	142Pr (176.9)
737.4 (10.2)	150Sm (334.0)	746.0 (<0.1)	143Nd (742.1)	753.3 (0.5)	177Lu (150.4)
737.5	124Sb	746.1 (3.6)	198Au (214.8)	753.6 (0.1)	1900s (186.7)
737.7 (0.7)	114In (311.7)	746.1 (12.2)	199Au (493.5)	753.6 (8.3)	153Sm (127.3)
737.8 (0.7)	168Er (6228.8)	746.2 (1.9)	163Dy (351.1)	753.8 (2.6)	138Ba (1435.6)
737.8 (1.5)	145Nd (852.8)	746.3 (3.4)	153Sm (6588.0)	754.2 (0.9)	52V (125.1)
737.9 (0.5)	77Se (238.9)	746.4 (0.1)	158Gd (181.9)	754.2 (<0.1)	156Gd (89.0)
738.0 (6.2)	142Pr (176.9)	746.5 (0.4)	77Se (238.9)	754.3 (0.8)	114In (311.7)
738.1 (1.0)	84Kr (881.8)	746.5 (15.7)	187Os (427.1)	754.4 (1.5)	147Nd (314.7)
738.2 (<0.1)	64Cu (7916.0)	746.6 (1.1)	184W (111.2)	754.8 (24.1)	164Dy (73.4)
738.2 (<0.1)	156Gd (89.0)	746.7 (3.6)	153Sm (127.3)	755.0 (2.7)	70Ga (508.4)
738.3 (1.0)	105Ru (143.2)	746.8 (1.4)	193Os (5276.0)	755.0 (4.6)	199Au (493.5)
738.4 (0.8)	143Ce (4337.8)	746.8 (<0.1)	96Mo (778.3)	755.3	94Nb
738.5 (<0.1)	200Hg (367.9)	746.8 (0.3)	156Gd (89.0)	755.5 (6.7)	77Se (238.9)
738.7 (8.4)	187W (5261.8)	746.9 (0.4)	188Os (155.0)	755.5 (0.7)	80Br (37.1)
739.0	169Yb	746.9 (0.4)	114Cd (1660.3)	755.6 (0.5)	86Kr (778.3)
739.1 (<0.1)	200Hg (367.9)	747.0 (6.2)	71Ce (499.8)	755.7 (0.6)	156Gd (89.0)
739.3 (0.2)	152Eu (89.8)	747.0 (0.1)	144Nd (696.5)	755.7 (0.3)	78Se (613.8)
739.3 (5.5)	105Ru (143.2)	747.0	172Yb	755.9 (0.9)	1900s (186.7)
739.4 (12.7)	73Ge (326.0)	747.3 (1.3)	116In (273.0)	755.9 (<0.1)	200Hg (367.9)
739.4 (0.7)	74Ge (595.7)	747.3 (1.7)	136Ba (818.6)	756.3 (<0.1)	143Nd (742.1)
739.5 (3.0)	198Au (214.8)	747.3 (<0.1)	200Hg (367.9)	756.3	169Yb
739.7 (1.1)	103Ru (174.0)	747.3 (0.4)	177Lu (150.4)	756.4 (<0.1)	158Gd (181.9)
740.0 (0.7)	163Dy (351.1)	747.6 (18.6)	142Pr (176.9)	756.6 (2.2)	235U (4155.1)
740.3 (<0.1)	152Eu (89.8)	747.6 (1.9)	147Nd (314.7)	756.8 (2.0)	62Ni (1172.8)
740.3	175Yb	747.7 (1.3)	176Lu (71.5)	757.0 (<0.1)	144Nd (696.5)
740.3 (0.4)	1900s (186.7)	747.9 (0.5)	162Dy (185.0)	757.0	172Yb
740.4 (0.6)	49Ti (1381.5)	747.9 (<0.1)	1900s (186.7)	757.0 (0.1)	200Hg (367.9)
740.6 (0.2)	150Sm (334.0)	747.9 (11.6)	235U (4155.1)	757.1 (0.3)	150Sm (334.0)
740.7 (0.5)	96Mo (778.3)	748.0 (0.7)	70Ga (508.4)	757.1 (0.1)	158Gd (181.9)
740.8 (0.6)	233Th (3473.0)	748.1 (0.1)	150Sm (334.0)	757.1	210Bi
741.1 (0.8)	114In (311.7)	748.1 (0.7)	114Cd (1660.3)	757.2 (<0.1)	105Ru (143.2)
741.3 (3.9)	168Er (6228.8)	748.3 (0.8)	168Er (6228.8)	757.2 (1.3)	114In (311.7)
741.5	169Yb	748.5 (1.6)	106Pd (513.0)	757.3 (13.4)	184W (111.2)
741.6 (0.8)	143Ce (4337.8)	748.5 (<0.1)	233Th (3473.0)	757.5 (14.3)	73Ge (326.0)
741.7	175Yb	748.6 (3.2)	86Rb (557.0)	757.5 (46.1)	185W (4573.6)
741.7 (0.4)	77Se (238.9)	748.6 (<0.1)	110Ag (198.7)	757.6 (1.2)	153Sm (127.3)
741.7 (<0.1)	144Nd (696.5)	748.7 (0.5)	75Se (286.6)	757.6	81Se
741.7 (5.3)	185Os (6588.6)	748.8 (0.3)	46Sc (227.8)	757.7 (<0.1)	146Nd (7110.8)
741.7 (0.8)	235U (4155.1)	748.8 (<0.1)	200Hg (367.9)	758.6	122Sb
741.8 (0.1)	152Eu (89.8)	748.8 (1.4)	156Gd (89.0)	758.7 (2.4)	241Pu (4276.5)
742.0 (0.4)	158Gd (181.9)	749.0 (0.4)	158Gd (181.9)	758.9 (2.9)	116In (273.0)
742.1 (100.0)	143Nd (742.1)	749.0 (100.0)	51Cr (749.0)	758.9	169Yb
742.3 (0.2)	114Cd (1660.3)	749.1 (0.7)	145Nd (852.8)	759.0 (0.4)	198Au (214.8)
742.3 (<0.1)	156Gd (89.0)	749.2 (0.3)	193Os (5276.0)	759.1 (1.4)	205Pb (6731.5)
742.6 (1.5)	202Hg (439.5)	749.2 (0.6)	198Au (214.8)	759.3	124Sb
742.9 (0.3)	78Se (613.8)	749.3 (0.8)	150Sm (334.0)	759.3 (<0.1)	200Hg (367.9)
743.1 (2.1)	158Gd (181.9)	749.4 (0.6)	114In (311.7)	759.4 (0.2)	158Gd (181.9)
743.1 (5.6)	249Cm (1408.3)	749.5 (0.9)	52V (125.1)	759.6 (2.4)	182Ta (270.4)
743.1 (2.7)	153Sm (127.3)	749.5 (1.4)	77Se (238.9)	759.9 (2.8)	185Os (6588.0)
743.2 (2.6)	184W (111.2)	749.6 (4.1)	116In (273.0)	760.0 (7.2)	69Zn (1008.0)
743.2 (0.1)	152Eu (89.8)	749.9 (<0.1)	200Hg (367.9)	760.2 (0.8)	114In (311.7)
743.4 (<0.1)	76As (165.0)	749.9 (2.9)	153Sm (127.3)	760.4 (<0.1)	177Lu (150.4)
743.5 (0.6)	193Os (5276.0)	750.1 (1.7)	158Gd (181.9)	760.5 (0.6)	151Nd (4487.8)
743.5 (<0.1)	200Hg (367.9)	750.5	210Bi	760.6 (2.1)	136Ba (818.6)
743.6	124Sb	750.7 (1.6)	198Au (214.8)	760.6 (0.5)	147Nd (314.7)
743.8 (0.2)	177Lu (150.4)	750.8 (1.1)	235U (4155.1)	760.7 (10.2)	169Er (429.9)
743.9 (0.9)	205Pb (6731.5)	750.9 (<0.1)	110Ag (198.7)	760.9 (<0.1)	156Gd (89.0)
744.2 (1.4)	140La (5097.9)	751.1 (1.6)	80Br (37.1)	760.9 (1.4)	235U (4155.1)
744.2 (0.2)	156Gd (89.0)	751.4	94Nb	760.9	169Yb
744.2 (3.1)	188Re (63.6)	751.5 (0.1)	78Se (613.8)	761.0 (<0.1)	54Cr (8884.1)
744.5 (2.0)	116In (273.0)	751.5 (11.4)	185Os (6588.0)	761.3 (0.9)	205Pb (6731.5)
744.5 (<0.1)	1900s (186.7)	751.6	179Hf	761.3 (0.3)	150Sm (334.0)
744.6 (1.2)	198Au (214.8)	751.7 (0.3)	162Dy (185.0)	761.4 (<0.1)	200Hg (367.9)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)
761.4 (<0.1)	200Hg (367.9)	770.4 (0.8)	75Se (286.6)	780.7 (8.0)	153Sm (127.3)
761.5 (179Hf)	179Hf (150.4)	770.5 (0.2)	77Se (238.9)	780.9 (0.5)	188Os (155.0)
761.6 (3.0)	186Re (59.0)	771.0 (3.6)	116In (273.0)	781.0 (<0.1)	200Hg (367.9)
761.7 (14.3)	177Lu (150.4)	771.1 (3.3)	163Dy (351.1)	781.0 (1.4)	163Dy (351.1)
761.7 (<0.1)	158Gd (181.9)	771.2 (0.9)	52V (125.1)	781.1 (0.1)	75Se (286.6)
761.7 (19.0)	164Dy (73.4)	771.3 (4.1)	142Pr (176.9)	781.1 (0.4)	80Br (37.1)
761.8 (<0.1)	68Zn (1077.4)	771.5 (4.1)	103Ru (174.0)	781.3 (9.5)	241Pu (4276.5)
761.8 (179Hf)	179Hf (150.4)	771.6 (1.8)	114In (311.7)	781.8 (0.6)	124Sb (111.2)
761.9 (169Yb)	169Yb (367.9)	771.8 (<0.1)	158Gd (181.9)	782.2 (1.8)	158Gd (181.9)
762.1 (<0.1)	200Hg (367.9)	771.9 (2.9)	241Pu (4276.5)	782.4 (<0.1)	1900s (186.7)
762.2 (10.0)	194Ir (371.7)	772.0 (0.8)	138Ba (1435.6)	782.4 (26.1)	187W (5261.8)
762.4 (10.1)	75Ge (574.7)	772.2 (6.2)	153Sm (127.3)	782.5 (1.4)	114In (311.7)
762.7 (0.7)	158Gd (181.9)	772.5 (0.1)	146Nd (7110.8)	782.6 (1.1)	164Dy (73.4)
762.8 (7.3)	210Bi (187W (5261.8)	772.8 (6.4)	249Cm (1408.3)	782.7 (1.3)	116In (273.0)
762.9 (1.1)	235U (4155.1)	772.9 (0.1)	158Gd (181.9)	782.8 (3.9)	138Ba (1435.6)
763.0 (3.5)	184W (111.2)	773.0 (13.2)	132Xe (657.5)	782.9 (0.2)	140La (5097.9)
763.3 (12.3)	73Ge (326.0)	773.0 (0.3)	145Nd (852.8)	783.0 (0.3)	202Hg (439.5)
763.3 (124Sb)	124Sb (143.2)	773.1 (10.0)	87Kr (1475.9)	783.5 (0.3)	177Lu (150.4)
763.5 (0.7)	105Ru (143.2)	773.6 (0.2)	150Sm (334.0)	783.7 (0.3)	200Hg (367.9)
763.6 (1.3)	198Au (214.8)	773.7 (<0.1)	110Ag (198.7)	784.0 (0.6)	235U (4155.1)
763.9 (0.1)	143Nd (742.1)	774.0 (6.7)	46Sc (227.8)	784.1 (2.4)	175Hf (5097.9)
763.9 (0.4)	158Gd (181.9)	774.5 (<0.1)	158Gd (181.9)	784.4 (6.8)	241Pu (4276.5)
764.3 (3.8)	204Tl (139.9)	774.8 (0.2)	177Lu (150.4)	784.7 (0.2)	73Ge (326.0)
764.5 (169Yb)	169Yb (367.9)	774.9 (<0.1)	76As (165.0)	784.7 (0.5)	77Se (238.9)
764.5 (4.3)	116In (273.0)	774.9 (5.1)	103Ru (174.0)	784.7 (0.5)	144Nd (696.5)
764.6 (1.1)	198Au (214.8)	775.1 (8.4)	114In (311.7)	784.9 (<0.1)	169Yb (367.9)
764.8 (<0.1)	188Os (155.0)	775.3 (0.1)	124Sb (111.2)	785.2 (1.8)	200Hg (367.9)
765.0 (179Hf)	179Hf (150.4)	775.6 (<0.1)	146Nd (7110.8)	785.2 (<0.1)	80Br (37.1)
765.0 (81Se)	81Se (155.0)	775.6 (<0.1)	158Gd (181.9)	785.4 (<0.1)	169Er (429.9)
765.1 (<0.1)	146Nd (7110.8)	775.8 (0.4)	198Au (214.8)	785.5 (1.0)	158Gd (181.9)
765.3 (0.2)	158Gd (181.9)	775.9 (4.0)	185Os (6588.0)	785.6 (20.0)	60Co (229.8)
765.6 (0.2)	143Nd (742.1)	775.9 (1.2)	235U (4155.1)	785.6 (0.3)	210Bi (198.7)
765.7 (0.2)	124Te (602.4)	776.0 (1.5)	162Dy (185.0)	785.7 (<0.1)	110Ag (198.7)
765.9 (3.2)	80Br (37.1)	776.3 (54.5)	94Nb (185.0)	785.8 (33.3)	187Os (427.1)
765.9 (<0.1)	110Ag (198.7)	776.4 (27.5)	171Yb (6614.7)	785.9 (<0.1)	156Gd (89.0)
766.0 (0.2)	77Se (238.9)	776.5 (100.0)	187Os (427.1)	785.9 (8.7)	194Ir (371.7)
766.0 (0.8)	140La (5097.9)	776.7 (0.5)	90Y (776.7)	786.0 (2.8)	193Os (5276.0)
766.0 (47.2)	143Ce (4337.8)	776.9 (0.8)	158Gd (181.9)	786.0 (0.3)	184W (111.2)
766.1 (1.8)	176Lu (71.5)	777.0 (0.4)	167Er (207.8)	786.3 (14.3)	249Cm (1408.3)
766.3 (2.2)	138Ba (1435.6)	777.0 (0.4)	198Au (214.8)	786.3 (0.6)	202Hg (439.5)
766.6 (0.2)	233Th (3473.0)	777.1 (0.9)	188Os (155.0)	786.4 (1.9)	198Au (214.8)
766.7 (2.0)	235U (4155.1)	777.3 (0.1)	77Se (238.9)	786.4 (20.7)	199Au (493.5)
767.1 (175Yb)	175Yb (367.9)	777.3 (1.0)	169Yb (111.2)	786.4 (0.5)	81Se (155.0)
767.3 (169Yb)	169Yb (367.9)	778.1 (0.2)	184W (111.2)	786.5 (1.1)	233Th (3473.0)
767.3 (0.4)	198Au (214.8)	778.2 (0.6)	158Gd (181.9)	786.7 (0.1)	140La (5097.9)
767.6 (10.3)	153Sm (127.3)	778.2 (0.2)	105Ru (143.2)	786.7 (3.9)	158Gd (181.9)
767.8 (<0.1)	156Gd (89.0)	778.3 (100.0)	233Th (3473.0)	786.8 (<0.1)	193Os (5276.0)
768.0 (0.4)	78Se (613.8)	778.4 (0.2)	96Mo (778.3)	786.8 (0.1)	76As (165.0)
768.1 (0.4)	158Gd (181.9)	778.4 (3.2)	177Lu (150.4)	786.8 (0.6)	188Os (155.0)
768.1 (2.2)	64Cu (7916.0)	778.5 (1.3)	249Cm (1408.3)	787.0 (0.6)	156Gd (89.0)
768.2 (124Sb)	124Sb (111.2)	778.6 (1.9)	156Gd (89.0)	787.0 (1.0)	114In (311.7)
768.3 (14.8)	185W (4573.6)	778.9 (<0.1)	144Nd (696.5)	787.0 (4.1)	235U (4155.1)
768.4 (2.2)	158Gd (181.9)	779.1 (200Hg)	200Hg (367.9)	787.1 (0.3)	200Hg (367.9)
768.7 (1.7)	1900s (186.7)	779.1 (1.4)	177Lu (150.4)	787.2 (0.7)	177Lu (150.4)
768.7 (2.6)	163Dy (351.1)	779.2 (2.0)	116In (273.0)	787.3 (3.5)	249Cm (1408.3)
768.7 (<0.1)	177Lu (150.4)	779.4 (<0.1)	169Er (429.9)	787.4 (0.1)	1900s (186.7)
768.8 (0.8)	162Dy (185.0)	779.4 (2.1)	235U (4155.1)	787.4 (100.0)	98Mo (787.4)
768.9 (1.8)	147Nd (314.7)	779.6 (0.6)	158Gd (181.9)	787.7 (<0.1)	68Zn (1077.4)
769.1 (2.6)	173Yb (399.4)	779.8 (1.4)	196Pt (356.1)	787.8 (<0.1)	242Pu (5476.9)
769.2 (3.1)	103Ru (174.0)	779.8 (9.0)	199Au (493.5)	787.9 (0.3)	77Se (238.9)
769.2 (210Bi)	210Bi (111.2)	780.0 (1.1)	114In (311.7)	787.9 (30.0)	169Er (429.9)
769.3 (<0.1)	156Gd (89.0)	780.0 (<0.1)	200Hg (367.9)	788.1 (<0.1)	156Gd (89.0)
769.4 (3.8)	184W (111.2)	780.1 (0.8)	162Dy (185.0)	788.1 (22.9)	185W (4573.6)
769.7 (18.9)	235U (4155.1)	780.1 (13.6)	158Gd (181.9)	788.2 (0.4)	80Br (37.1)
769.8 (0.6)	158Gd (181.9)	780.3 (<0.1)	242Pu (5476.9)	788.4 (0.7)	198Au (214.8)
769.9 (1.8)	73Ge (326.0)	780.5 (9.0)	145Nd (852.8)	788.4 (1.3)	116In (273.0)
769.9 (1.1)	74Ge (595.7)	780.5 (1.7)	156Gd (89.0)	788.5 (2.2)	193Os (5276.0)
769.9 (3.2)	66Cu (185.9)	780.5 (<0.1)	233Th (3473.0)	788.6 (8.1)	124Sb (111.2)
770.4 (1.3)	198Au (214.8)	780.6 (0.9)	52V (125.1)	788.7 (8.1)	71Ge (499.8)

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV (χ ly)	Nucleus (Strongest γ)	E γ keV (χ ly)	Nucleus (Strongest γ)	E γ keV (χ ly)	Nucleus (Strongest γ)
788.7 (4.8)	104Rh (180.9)	798.0 (<0.1)	233Th (3473.0)	808.6 (1.3)	116In (273.0)
788.7 (14.1)	187W (5261.8)	798.1 (2.3)	114In (311.7)	808.6 (0.9)	233Th (3473.0)
788.7 (14.8)	153Sm (127.3)	798.2 (5.0)	239Pu (4821.8)	808.9 (0.3)	80Br (37.1)
788.8 (<0.1)	200Hg (367.9)	798.3 (4.3)	71Ge (499.8)	809.4	210Bi
788.8 (0.3)	233Th (3473.0)	798.6 (<0.1)	189Er (429.9)	809.7 (1.6)	198Au (214.8)
788.8 (0.1)	146Nd (7110.8)	798.7 (2.1)	70Ga (508.4)	809.8 (12.0)	194Ir (371.7)
789.1 (1.0)	75Se (286.6)	798.9 (1.3)	188Er (6228.8)	810.0 (1.0)	163Dy (351.1)
789.4 (16.1)	143Ce (4337.8)	799.0 (2.1)	235U (4155.1)	810.1 (<0.1)	158Gd (181.9)
789.7 (1.0)	124Te (802.4)	799.4 (<0.1)	76As (165.0)	810.2 (1.5)	184W (111.2)
789.7 (0.3)	1880s (155.0)	799.9 (<0.1)	200Hg (367.9)	810.2 (<0.1)	156Gd (89.0)
789.7 (<0.1)	200Hg (367.9)	800.4 (0.5)	96Mo (778.3)	810.3 (1.2)	147Nd (314.7)
789.8 (0.3)	145Nd (852.8)	800.5	175Yb	810.5 (1.2)	48Ti (983.7)
789.8 (0.2)	156Gd (89.0)	800.5 (3.8)	241Pu (4276.5)	810.5 (100.0)	58Fe (810.5)
790.1 (0.4)	168Er (6228.8)	800.7 (0.3)	177Lu (150.4)	810.5 (17.4)	167Er (207.8)
790.2 (<0.1)	236U (642.2)	801.1 (9.3)	142Pr (176.9)	810.8 (4.1)	101Mo (180.7)
790.4 (7.1)	239Pu (4821.8)	801.2 (2.3)	116In (273.0)	810.8 (0.1)	68Zn (1077.4)
790.5 (6.2)	142Pr (176.9)	801.3 (1.1)	198Au (214.8)	810.8 (0.4)	96Mo (778.3)
790.6 (1.0)	96Mo (778.3)	801.4 (0.3)	1880s (155.0)	810.9 (2.4)	1880s (155.0)
790.6 (0.7)	77Se (238.9)	801.5 (15.7)	187Os (427.1)	810.9 (4.7)	236U (642.2)
790.7 (0.3)	92Zr (934.5)	801.7 (<0.1)	156Gd (89.0)	811.0	179Hf
790.9 (0.4)	158Gd (181.9)	802.3 (5.5)	84Kr (881.8)	811.4	175Yb
791.3 (1.3)	103Ru (174.0)	802.5 (0.9)	184W (111.2)	811.5 (0.3)	98Mo (787.4)
791.3 (12.4)	177Yb (151.6)	802.8 (1.3)	205Pb (6731.5)	811.6	172Yb
791.3 (6.3)	199Au (493.5)	803.3 (8.6)	241Pu (4276.5)	811.8 (0.8)	156Gd (89.0)
791.5 (2.0)	98Mo (787.4)	803.4	124Sb	811.9 (5.9)	145Nd (852.8)
791.5 (3.3)	116In (273.0)	803.4 (1.2)	235U (4155.1)	811.9 (0.7)	177Lu (150.4)
792.0 (0.1)	144Nd (696.5)	803.4 (5.5)	187W (5261.8)	812.1	175Yb
792.0 (1.9)	163Dy (351.1)	803.6 (0.2)	98Mo (787.4)	812.2 (0.9)	198Au (214.8)
792.1 (61.3)	184W (111.2)	803.7 (1.0)	198Au (214.8)	812.4	169Yb
792.4 (3.2)	105Ru (143.2)	803.8 (0.5)	177Lu (150.4)	812.5 (1.1)	96Mo (778.3)
792.5 (2.7)	235U (4155.1)	803.8 (2.0)	103Ru (174.0)	812.5 (0.2)	75Se (286.6)
792.7 (0.6)	198Au (214.8)	803.8 (0.9)	105Ru (143.2)	812.5	81Se
793.1 (0.3)	177Lu (150.4)	803.8 (<0.1)	156Gd (89.0)	812.7 (0.2)	190Os (186.7)
793.2 (2.4)	114In (311.7)	804.0 (<0.1)	158Gd (181.9)	813.0 (1.0)	105Ru (143.2)
793.2	124Sb	804.0 (15.1)	185W (4573.6)	813.3 (2.1)	114In (311.7)
793.2 (0.2)	1880s (155.0)	804.3 (16.8)	161Gd (5280.0)	813.3 (0.9)	168Er (6228.8)
793.4 (<0.1)	52V (125.1)	804.7 (1.1)	106Pd (513.0)	813.5 (5.8)	235U (4155.1)
793.6 (0.5)	198Au (214.8)	804.7 (<0.1)	150Sm (334.0)	813.6 (0.5)	177Lu (150.4)
793.8 (<0.1)	156Gd (89.0)	804.7 (63.6)	171Yb (6614.7)	813.6 (0.8)	80Br (37.1)
794.0 (2.0)	167Er (207.8)	804.9 (1.8)	105Ru (143.2)	813.6 (9.1)	187W (5261.8)
794.0 (2.9)	171Er (197.9)	805.0 (0.3)	156Gd (89.0)	813.8 (0.4)	77Se (238.9)
794.1 (0.2)	78Se (613.8)	805.1 (0.4)	198Au (214.8)	814.1 (2.5)	116In (273.0)
794.1 (3.6)	145Nd (852.8)	805.1 (1.3)	239Pu (4821.8)	814.1 (5.4)	170Tm (204.5)
794.2 (10.0)	241Pu (4276.5)	805.2 (2.3)	103Ru (174.0)	814.1 (12.8)	144Nd (696.5)
794.3 (0.4)	80Br (37.1)	805.5	169Yb	814.2 (0.7)	98Mo (787.4)
794.7 (0.2)	158Gd (181.9)	805.5 (3.5)	235U (4155.1)	814.3 (5.6)	45Ca (174.3)
794.9 (4.8)	188Er (63.6)	805.6 (5.2)	142Pr (176.9)	814.4 (<0.1)	156Gd (89.0)
794.9 (0.5)	144Nd (696.5)	805.7 (0.8)	177Lu (150.4)	814.4 (1.0)	233Th (3473.0)
795.2 (0.5)	158Gd (181.9)	805.7 (12.0)	194Ir (371.7)	814.4 (5.5)	143Nd (742.1)
795.5 (28.2)	162Dy (185.0)	805.8 (12.1)	68Zn (1077.4)	814.6 (1.3)	158Gd (181.9)
795.6 (<0.1)	169Er (429.9)	805.8 (0.4)	198Au (214.8)	815.4 (2.5)	80Br (37.1)
795.6 (0.4)	198Au (214.8)	805.9 (3.5)	114Cd (1660.3)	815.7 (0.6)	1930s (5276.0)
796.2 (0.3)	156Gd (89.0)	806.2 (0.8)	143Nd (742.1)	815.8 (3.8)	66Cu (185.9)
796.2 (0.5)	105Ru (143.2)	806.6 (0.4)	233Th (3473.0)	815.8 (21.0)	187W (5261.8)
796.4 (2.2)	116In (273.0)	806.7 (0.9)	116Sn (1293.5)	815.9 (5.6)	61Ni (7819.6)
796.4 (0.1)	200Hg (367.9)	807.1 (0.2)	77Se (238.9)	815.9 (27.1)	168Er (6228.8)
796.5	122Sb	807.1 (0.4)	114In (311.7)	816.0 (<0.1)	114In (311.7)
796.6 (0.1)	158Gd (181.9)	807.2 (0.2)	200Hg (367.9)	816.2 (0.2)	150Sm (334.0)
796.9 (8.8)	101Mo (180.7)	807.3 (0.2)	146Nd (7110.8)	816.2	175Yb
797.0 (0.2)	75Se (286.6)	807.7 (46.2)	162Dy (185.0)	816.3 (1.6)	156Gd (89.0)
797.2 (<0.1)	233Th (3473.0)	807.7 (6.3)	46Sc (227.8)	816.3	124Sb
797.2 (<0.1)	143Nd (742.1)	808.2 (8.4)	71Ge (499.8)	816.4 (0.9)	158Gd (181.9)
797.2 (7.5)	147Nd (314.7)	808.2 (1.9)	74Ge (595.7)	816.6 (0.7)	1930s (5276.0)
797.3 (4.2)	239Pu (4821.8)	808.2 (16.8)	77Ge (3895.2)	817.0 (0.4)	177Lu (150.4)
797.3 (1.0)	184W (111.2)	808.2 (0.1)	92Zr (934.5)	817.2 (2.1)	142Pr (176.9)
797.4 (2.3)	105Ru (143.2)	808.3 (<0.1)	158Gd (181.9)	817.3 (3.7)	86Rb (557.0)
797.4 (<0.1)	200Hg (367.9)	808.3 (34.2)	143Ce (4337.8)	817.4	179Hf
797.5 (6.7)	194Ir (371.7)	808.4 (1.5)	235U (4155.1)	817.4 (1.5)	153Sm (127.3)
797.5 (0.4)	198Au (214.8)	808.4 (3.9)	153Sm (127.3)	817.5 (<0.1)	178Hf (213.4)
797.6 (3.2)	140La (5097.9)	808.5 (1.1)	174Yb (176.6)	817.5 (4.2)	239Pu (4821.8)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV (χ_{17})	Nucleus (Strongest γ)	E_{γ} keV (χ_{17})	Nucleus (Strongest γ)	E_{γ} keV (χ_{17})	Nucleus (Strongest γ)
817.8 (5.9)	77Se (238.9)	827.3 (1.0)	124Te (602.4)	835.7	81Se
818.0 (0.1)	158Gd (181.9)	827.4 (2.0)	188Os (155.0)	835.8 (0.2)	158Gd (181.9)
818.1 (0.1)	78Se (613.8)	827.7 (0.3)	116In (273.0)	835.9 (3.6)	198Au (214.8)
818.1 (8.7)	116Sn (1293.5)	827.8 (0.3)	158Gd (181.9)	836.4	94Nb
818.3 (0.1)	1900s (186.7)	828.0 (1.2)	60Co (229.8)	836.4 (0.6)	68Zn (1077.4)
818.3 (<0.1)	200Hg (367.9)	828.0 (0.9)	70Ga (508.4)	836.4 (0.4)	150Sm (334.0)
818.5	179Hf (193.4)	828.3 (0.4)	200Hg (367.9)	837.0 (1.0)	116In (273.0)
818.5 (2.2)	204Tl (139.9)	828.3 (1.4)	78Se (613.8)	837.2 (0.3)	158Gd (181.9)
818.6 (100.0)	136Ba (818.6)	828.4 (0.5)	177Lu (150.4)	837.2	124Sb
818.9 (0.4)	80Br (37.1)	828.5 (0.9)	233Th (3473.0)	837.5 (0.7)	198Au (214.8)
819.2 (1.0)	147Nd (314.7)	828.8	124Sb	837.5 (3.5)	1850s (6588.0)
819.5 (0.3)	96Mo (778.3)	828.9 (2.5)	1900s (186.7)	837.7 (<0.1)	200Hg (367.9)
819.5 (2.5)	116In (273.0)	828.9 (1.8)	235U (4155.1)	837.8 (1.4)	103Ru (174.0)
819.5 (0.6)	158Gd (181.9)	829.0 (0.2)	150Sm (334.0)	837.8 (0.8)	140La (5097.9)
819.6 (8.6)	249Cm (1408.3)	829.2 (0.2)	105Ru (143.2)	837.8 (0.3)	177Lu (150.4)
819.6 (10.7)	199Au (493.5)	829.2 (5.8)	188Er (63.6)	838.0 (4.3)	47Ti (159.0)
819.9 (4.3)	170Tm (204.5)	829.4 (0.1)	158Gd (181.9)	838.3 (0.1)	158Gd (181.9)
820.1 (1.7)	158Gd (181.9)	829.7 (7.6)	188Os (155.0)	838.3 (0.1)	114Cd (1660.3)
820.8 (0.2)	143Ce (4337.8)	829.9 (2.5)	168Er (6228.8)	838.6 (1.1)	114In (311.7)
820.8 (7.1)	163Dy (351.1)	830.1 (0.5)	177Lu (150.4)	838.7 (9.0)	176Lu (71.5)
821.1 (4.3)	168Er (6228.8)	830.1 (0.4)	116Sn (1293.5)	838.9 (<0.1)	236U (642.2)
821.1 (<0.1)	92Zr (204.5)	830.2 (7.9)	194Ir (371.7)	839.0 (13.2)	153Sm (415.1)
821.3 (1.3)	235U (4155.1)	830.5 (1.0)	193Os (5276.0)	839.0 (1.5)	87Sr (8039.8)
821.7 (2.9)	140La (5097.9)	830.5 (0.1)	158Gd (181.9)	839.0 (0.7)	1900s (186.7)
822.1 (<0.1)	156Gd (89.0)	830.6 (1.1)	114In (311.7)	839.3 (D.6)	105Ru (143.2)
822.1 (<0.1)	76As (165.0)	830.7 (23.7)	249Cm (1408.3)	839.4 (0.6)	141Ce (662.0)
822.1	94Nb (37.1)	830.7 (3.1)	80Br (37.1)	839.5 (0.2)	233Th (3473.0)
822.2 (21.6)	187Os (427.1)	830.8 (0.3)	143Ce (4337.8)	839.7 (4.0)	75Se (286.6)
822.5 (65.4)	185W (4573.6)	830.8 (0.2)	150Sm (334.0)	839.8 (1.8)	177Lu (150.4)
822.5 (1.0)	138Ba (1435.6)	830.8 (0.5)	116In (273.0)	840.0 (13.1)	185W (4573.6)
822.6 (0.9)	198Au (214.8)	830.9 (0.8)	77Se (613.8)	840.2 (31.1)	187W (5261.8)
822.6 (2.9)	116In (273.0)	830.9 (<0.1)	156Gd (89.0)	840.3 (1.8)	235U (4155.1)
822.7 (<0.1)	158Gd (181.9)	831.1 (25.6)	249Cm (1408.3)	840.4 (0.3)	78Se (613.8)
822.9 (0.8)	177Lu (150.4)	831.3 (29.3)	71Ce (499.8)	840.4 (37.7)	171Yb (6614.7)
823.1 (<0.1)	1900s (186.7)	831.3 (0.2)	184W (111.2)	840.4 (0.1)	98Mo (787.4)
823.2 (0.2)	80Br (37.1)	831.4 (1.5)	193Os (5276.0)	840.6 (4.6)	147Nd (314.7)
823.3 (<0.1)	52V (125.1)	831.4 (1.0)	150Sm (334.0)	840.8 (1.9)	167Er (207.8)
823.4 (1.0)	156Gd (89.0)	831.4 (0.6)	198Au (214.8)	840.9 (5.5)	55Cr (6246.4)
823.4 (4.1)	142Pr (176.9)	831.5 (0.4)	105Ru (143.2)	841.0 (3.8)	241Pu (4276.5)
823.4 (1.8)	98Mo (787.4)	831.6 (1.7)	173Yb (399.4)	841.2 (<0.1)	156Gd (89.0)
823.5 (1.0)	168Er (6228.8)	831.7	169Yb	841.2 (0.1)	144Nd (696.5)
823.5	124Sb	831.9 (0.3)	1900s (186.7)	841.3 (<0.1)	168Er (6228.8)
823.5 (<0.1)	66Cu (185.9)	832.1 (3.1)	142Pr (176.9)	841.6 (11.7)	75Ge (574.7)
823.6 (0.5)	143Nd (742.1)	832.2 (9.9)	187W (5261.8)	841.6 (4.7)	114In (311.7)
823.6 (0.8)	235U (4155.1)	832.3 (2.0)	235U (4155.1)	841.7	175Yb
823.9 (<0.1)	200Hg (367.9)	832.5 (1.4)	193Os (5276.0)	841.8	122Sb
824.1 (1.9)	158Gd (181.9)	832.6 (50.0)	171Yb (6614.7)	842.1 (7.2)	1850s (6588.0)
824.4 (4.2)	105Ru (143.2)	832.7 (0.3)	68Zn (1077.4)	842.3 (4.4)	177Yb (151.6)
824.5 (16.2)	66Cu (185.9)	832.7	210Bi	842.5 (3.1)	162Dy (185.0)
824.6 (3.0)	1880s (155.0)	832.7 (12.5)	249Cm (1408.3)	842.7 (0.5)	92Zr (934.5)
824.7	169Yb	832.9 (0.4)	158Gd (181.9)	843.0 (3.7)	164Dy (73.4)
824.8 (0.2)	78Se (613.8)	832.9 (0.5)	168Er (6228.8)	843.1 (0.5)	233Th (3473.0)
825.0 (0.4)	77Se (238.9)	833.0 (12.6)	66Cu (185.9)	843.1 (0.7)	77Se (238.9)
825.1 (1.7)	198Au (214.8)	833.2 (1.3)	233Th (3473.0)	843.1 (0.8)	78Se (613.8)
825.1 (4.7)	177Yb (151.6)	833.6 (4.8)	163Dy (351.1)	843.2 (0.1)	158Gd (181.9)
825.2 (7.4)	153Sm (127.3)	833.6 (0.2)	156Gd (89.0)	843.2 (2.3)	114In (311.7)
825.2	175Yb	833.6 (1.3)	98Mo (787.4)	843.2 (0.4)	143Nd (742.1)
825.5 (5.7)	194Ir (371.7)	833.8 (4.1)	177Yb (151.6)	843.7 (6.0)	235U (4155.1)
825.5 (9.2)	239Pu (4821.8)	834.0 (0.7)	184W (111.2)	843.8 (1.6)	46Sc (227.8)
825.7 (0.2)	158Gd (181.9)	834.1 (7.3)	153Sm (127.3)	843.8 (<0.1)	156Gd (89.0)
825.7 (9.3)	114In (311.7)	834.1 (0.4)	51Cr (749.0)	844.2 (6.1)	92Zr (934.5)
825.7 (2.0)	193Os (5276.0)	834.6 (1.2)	177Lu (150.4)	844.2 (1.2)	116In (273.0)
825.8 (0.6)	168Er (6228.8)	834.9 (51.9)	54Cr (8884.1)	844.3 (3.1)	142Pr (176.9)
826.1 (0.8)	233Th (3473.0)	834.9 (3.5)	198Au (214.8)	845.0 (1.4)	177Lu (150.4)
826.4 (0.9)	198Au (214.8)	835.0 (64.7)	69Zn (1008.0)	845.1	169Yb
826.6 (0.2)	156Gd (89.0)	835.0 (0.1)	144Nd (696.5)	845.2 (0.4)	51Cr (749.0)
826.9 (0.4)	51Cr (749.0)	835.0 (<0.1)	233Th (3473.0)	845.2 (0.1)	68Zn (1077.4)
827.1 (<0.1)	158Gd (181.9)	835.1 (2.2)	46Sc (227.8)	845.2 (8.6)	163Dy (351.1)
827.2	169Yb	835.2 (0.4)	141Ce (662.0)	845.2 (1.8)	1880s (155.0)
827.2 (0.7)	80Br (37.1)	835.7 (29.4)	187Os (427.1)	845.3 (<0.1)	156Gd (89.0)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV (χ_{17})	Nucleus (Strongest γ)	E_{γ} keV (χ_{17})	Nucleus (Strongest γ)	E_{γ} keV (χ_{17})	Nucleus (Strongest γ)
845.3 (<0.1)	156Gd (89.0)	854.4 (0.2)	58Fe (810.5)	866.6 (0.4)	184W (111.2)
845.3 (36.8)	171Yb (6614.7)	854.7	124Sb	866.6 (0.2)	98Mo (787.4)
845.5 (1.9)	63Ni (6838.2)	855.0	172Yb	866.7	175Hf (1836.1)
845.7 (1.4)	80Br (37.1)	855.1 (0.5)	177Lu (150.4)	866.8 (0.4)	114In (311.7)
845.9 (24.4)	52V (125.1)	855.6 (0.7)	62Ni (1172.8)	866.8 (13.2)	187W (5261.8)
846.2 (0.9)	184W (111.2)	855.7 (<0.1)	156Gd (89.0)	867.0	210Bi
846.2 (30.3)	249Cm (1408.3)	855.8 (<0.1)	158Gd (181.9)	867.2 (1.5)	105Ru (143.2)
846.4 (0.6)	233Th (3473.0)	856.0 (0.1)	124Te (602.4)	867.6 (1.3)	88Sr (1836.1)
846.5 (0.6)	55Cr (6246.4)	856.7 (0.6)	235U (4155.1)	867.7 (1.2)	158Gd (181.9)
846.8 (0.4)	158Gd (181.9)	857.1 (<0.1)	51Cr (749.0)	867.9 (49.6)	74Ge (595.7)
846.8 (1.0)	78Se (613.8)	857.2 (1.9)	114In (311.7)	867.9 (4.3)	170Tm (204.5)
847.1	124Sb	857.6	172Yb	868.0	179Hf
847.1 (0.8)	235U (4155.1)	857.6 (0.6)	177Lu (150.4)	868.1 (5.4)	140La (5097.9)
847.2 (2.7)	153Sm (127.3)	857.9	124Sb	868.2 (3.9)	103Ru (174.0)
847.3 (0.3)	75Se (286.6)	858.0 (3.5)	153Sm (127.3)	868.3 (2.6)	198Au (214.8)
847.3 (2.5)	1930s (5276.0)	858.2 (<0.1)	156Gd (89.0)	868.3 (3.3)	163Dy (351.1)
847.4 (<0.1)	144Nd (696.5)	858.3	175Yb	868.4 (0.3)	156Gd (89.0)
847.4 (<0.1)	156Gd (89.0)	858.3 (0.3)	158Gd (181.9)	868.5 (<0.1)	146Nd (7110.8)
847.4 (2.1)	177Yb (151.6)	858.5 (1.8)	174Yb (176.6)	868.5 (<0.1)	178Hf (213.4)
847.5 (5.1)	116In (273.0)	859.0	179Hf	869.1 (1.6)	150Sm (334.0)
847.7 (17.1)	96Mo (778.3)	859.3 (1.3)	116In (273.0)	869.4 (0.6)	233Th (3473.0)
847.7 (0.1)	158Gd (181.9)	859.4 (0.5)	75Se (286.6)	869.5 (<0.1)	71Ge (499.8)
847.8 (1.5)	105Ru (143.2)	859.5 (1.6)	150Sm (334.0)	869.5 (4.4)	199Au (493.5)
848.3 (0.2)	158Gd (181.9)	859.6 (3.6)	177Yb (151.6)	869.6	124Sb
848.7 (2.0)	105Ru (143.2)	859.8 (0.5)	158Gd (181.9)	869.7	175Yb
848.8 (10.8)	187W (5261.8)	859.9 (0.2)	1900s (186.7)	869.7 (19.5)	171Yb (6614.7)
848.9 (2.3)	140La (5097.9)	860.0 (4.6)	199Au (493.5)	870.2 (1.2)	158Gd (181.9)
848.9 (3.5)	1850s (6588.0)	860.0 (18.6)	1870s (427.1)	870.5 (1.2)	167Er (207.8)
849.2 (0.3)	233Th (3473.0)	860.4 (0.3)	158Gd (181.9)	870.5 (1.9)	171Er (197.9)
849.4 (0.4)	156Gd (89.0)	860.4 (2.1)	80Br (37.1)	870.9 (5.0)	158Gd (181.9)
849.8 (<0.1)	76As (165.0)	860.4 (1.8)	147Nd (314.7)	870.9 (0.2)	156Gd (89.0)
849.9 (0.8)	235U (4155.1)	860.6 (<0.1)	200Hg (367.9)	870.9 (4.2)	138Ba (1435.6)
849.9 (<0.1)	146Nd (7110.8)	860.8 (4.7)	46Sc (227.8)	870.9 (2.8)	182Ta (270.4)
849.9 (21.5)	96Mo (778.3)	860.8 (6.4)	249Cm (1408.3)	871.3 (4.2)	153Sm (127.3)
850.0 (1.7)	70Ga (508.4)	860.8 (0.4)	98Mo (787.4)	871.5 (<0.1)	146Nd (7110.8)
850.0 (0.4)	80Br (37.1)	861.0 (0.2)	177Lu (150.4)	871.6 (2.1)	184W (111.2)
850.2 (0.9)	143Nd (742.1)	861.2 (<0.1)	76As (165.0)	871.7	175Yb
850.5 (24.6)	88Sr (1836.1)	861.3 (<0.1)	158Gd (181.9)	871.8 (6.5)	177Yb (151.6)
850.7 (1.8)	160Tb (75.1)	861.4 (4.8)	249Cm (1408.3)	872.0 (0.2)	158Gd (181.9)
850.7 (2.3)	162Dy (185.0)	861.4 (7.9)	187W (5261.8)	872.1 (<0.1)	233Th (3473.0)
850.8 (12.1)	77Ge (3895.2)	861.7 (12.3)	47Ca (2013.6)	872.1 (0.6)	202Hg (439.5)
850.9 (0.6)	1930s (5276.0)	861.7 (<0.1)	200Hg (367.9)	872.3 (2.3)	114In (311.7)
851.0 (7.7)	71Ge (499.8)	861.7	172Yb	872.7 (8.8)	204Tl (139.9)
851.2 (0.4)	114In (311.7)	862.2 (14.8)	143Ce (4337.8)	872.9 (7.5)	187W (5261.8)
851.3 (1.7)	177Lu (150.4)	862.3 (<0.1)	51Cr (749.0)	872.9 (0.4)	177Lu (150.4)
851.3 (0.4)	158Gd (181.9)	862.5 (0.7)	168Er (6228.8)	872.9 (<0.1)	200Hg (367.9)
851.4 (0.8)	200Hg (367.9)	862.6	124Sb	873.2 (39.5)	86Rb (557.0)
851.5 (8.7)	170Tm (204.5)	862.8 (2.0)	105Ru (143.2)	873.2 (<0.1)	232Th (3473.0)
851.7 (<0.1)	1900s (186.7)	863.0 (0.2)	158Gd (181.9)	873.6 (0.3)	64Zn (1077.4)
851.8 (<0.1)	156Gd (89.0)	863.1 (6.4)	103Ru (174.0)	873.6 (<0.1)	204Tl (139.9)
852.2 (7.5)	187W (5261.8)	863.3 (1.8)	202Hg (439.5)	873.8 (0.5)	75Se (286.6)
852.2 (2.2)	236U (642.2)	863.6 (27.4)	58Fe (810.5)	873.9 (<0.1)	236U (642.2)
852.3 (1.5)	116In (273.0)	863.6 (1.9)	140La (5097.9)	874.2	124Sb
852.3	179Hf	863.7 (1.8)	162Dy (185.0)	874.3 (1.2)	116In (273.0)
852.4 (2.7)	235U (4155.1)	863.8 (<0.1)	1900s (186.7)	874.4 (2.3)	114In (311.7)
852.5 (0.6)	198Au (214.8)	863.8 (1.5)	235U (4155.1)	874.4 (0.6)	233Th (3473.0)
852.6 (1.4)	151Nd (4487.8)	863.8 (7.1)	187W (5261.8)	874.8 (<0.1)	156Gd (89.0)
852.7	175Yb	864.2 (2.0)	68Zn (1077.4)	875.0 (2.4)	158Gd (181.9)
852.8 (100.0)	145Nd (852.8)	864.3 (11.5)	144Nd (696.5)	875.6 (18.9)	62Ni (1172.8)
852.8 (0.4)	233Th (3473.0)	864.5 (11.7)	87Sr (8039.8)	875.9	122Sb
852.9 (2.9)	158Gd (181.9)	864.6 (1.1)	177Lu (150.4)	875.9 (0.4)	146Nd (7110.8)
853.0 (1.9)	96Mo (778.3)	864.8 (0.8)	96Mo (778.3)	876.0 (1.0)	114In (311.7)
853.2 (<0.1)	169Er (429.9)	865.5 (0.5)	80Br (37.1)	876.0 (10.0)	171Yb (6614.7)
853.3 (0.2)	158Gd (181.9)	865.8 (<0.1)	156Gd (89.0)	876.3 (1.1)	151Nd (4487.8)
853.3 (0.4)	143Ce (4337.8)	866.0 (1.1)	158Gd (181.9)	876.4 (0.9)	80Br (37.1)
853.5 (4.7)	168Er (6228.8)	866.2 (37.0)	87Kr (1475.9)	876.5 (3.5)	177Lu (150.4)
854.0 (1.1)	60Co (229.8)	866.2 (13.4)	142Pr (176.9)	876.8 (2.0)	198Au (214.8)
854.1 (1.9)	147Nd (314.7)	866.2	175Yb	876.8 (0.8)	145Nd (852.8)
854.1 (0.4)	198Au (214.8)	866.3 (6.6)	143Nd (742.1)	877.2 (0.8)	116In (273.0)
854.2 (<0.1)	200Hg (367.9)	866.4	124Sb	877.3 (<0.1)	152Eu (89.8)

Table I. CAPTURE γ 's - energy sorted (cont.)

Ex keV (χ_{γ})	Nucleus (Strongest γ)	Ex keV (χ_{γ})	Nucleus (Strongest γ)	Ex keV (χ_{γ})	Nucleus (Strongest γ)
877.5 (0.2)	92Zr (934.5)	887.0 (15.0)	47Ti (159.0)	897.5 (0.5)	77Se (238.9)
877.6 (0.2)	156Gd (89.0)	887.1 (0.1)	144Nd (696.5)	897.5 (<0.1)	144Nd (696.5)
877.7 (1.1)	190Os (186.7)	887.3 (0.7)	105Ru (143.2)	897.5 (0.1)	98Mo (787.4)
877.8 (8.3)	187W (5261.8)	887.5 (2.1)	182Ta (270.4)	897.6 (11.0)	147Nd (314.7)
877.8 (0.1)	143Nd (742.1)	887.7 (1.0)	158Gd (181.9)	897.6 (33.8)	158Gd (181.9)
878.3 (1.0)	74Ge (595.7)	887.9 (<0.1)	190Os (186.7)	897.6 (1.0)	75Se (286.6)
878.5 (2.4)	105Ru (143.2)	888.0 (0.8)	80Br (37.1)	897.7 (0.4)	168Er (6228.8)
878.5 (<0.1)	144Nd (696.5)	888.1 (2.6)	177Yb (151.6)	897.7 (0.7)	198Au (214.8)
878.5 (3.3)	167Er (207.8)	888.2 (43.6)	162Dy (185.0)	898.0 (64.0)	88Sr (1836.1)
878.6 (13.6)	153Sm (127.3)	888.2 (2.7)	51Cr (749.0)	898.2 (0.6)	58Fe (810.5)
878.7 (<0.1)	76As (165.0)	888.4 (<0.1)	190Os (186.7)	898.2 (0.3)	61Ni (7819.6)
878.7 (2.1)	235U (4155.1)	888.4 (2.1)	239Pu (4821.8)	898.3 (6.3)	57Fe (7631.6)
878.8 (0.6)	198Au (214.8)	888.6 (1.2)	193Os (5276.0)	898.4 (<0.1)	76As (165.0)
878.8 (4.1)	64Cu (7916.0)	888.8 (4.6)	78Se (613.8)	898.4 (1.4)	160Tb (75.1)
879.3 (1.9)	158Gd (181.9)	888.8 (2.6)	140La (5097.9)	898.5 (2.4)	167Er (207.8)
879.5 (<0.1)	59Ni (8999.3)	888.8 (24.7)	185W (4573.6)	898.6 (0.2)	200Hg (367.9)
879.5 (0.4)	77Se (238.9)	888.9 (5.5)	77Se (238.9)	898.8 (2.8)	46Sc (227.8)
879.6 (1.0)	68Zn (1077.4)	889.0 (0.7)	105Ru (143.2)	898.9 (0.3)	48Ti (983.7)
879.7 (8.2)	142Pr (176.9)	889.3	124Sb	898.9	94Nb
879.7 (0.5)	177Lu (150.4)	889.3 (<0.1)	168Er (6228.8)	899.1 (2.4)	147Nd (314.7)
879.8 (1.5)	151Nd (4487.8)	889.5 (4.6)	193Os (5276.0)	899.1 (2.2)	177Lu (150.4)
879.8	94Nb	889.5 (2.7)	235U (4155.1)	899.2 (0.3)	150Sm (334.0)
879.9 (<0.1)	143Nd (742.1)	889.8 (0.2)	144Nd (696.5)	899.6 (0.5)	114In (311.7)
880.3 (0.6)	136Ba (818.6)	889.8 (0.4)	145Nd (852.8)	899.7 (0.5)	158Gd (181.9)
880.5 (0.1)	158Gd (181.9)	889.9	169Yb	899.9 (7.2)	249Cm (1408.3)
880.7 (1.2)	55Cr (6246.4)	890.0 (<0.1)	200Hg (367.9)	900.2	210Bi
881.4 (0.4)	114In (311.7)	890.0 (1.1)	80Br (37.1)	900.6 (0.1)	68Zn (1077.4)
881.5 (4.2)	66Cu (185.9)	890.3 (<0.1)	156Gd (89.0)	900.9 (0.7)	98Mo (787.4)
881.7 (9.2)	187W (5261.8)	890.4 (<0.1)	54Cr (8884.1)	901.1 (4.2)	60Co (229.8)
881.8 (100.0)	84Kr (881.8)	890.5 (<0.7)	75Se (286.6)	901.1 (0.6)	235U (4155.1)
881.9	124Sb	890.8 (0.6)	114In (311.7)	901.3 (<0.1)	236U (642.2)
882.0 (1.0)	78Se (613.8)	891.0 (0.2)	177Lu (150.4)	901.3 (2.1)	162Dy (185.0)
882.0 (7.4)	86Rb (557.0)	891.0 (<0.1)	92Zr (934.5)	901.4 (<0.1)	178Hf (213.4)
882.0 (<0.1)	156Gd (89.0)	891.1 (2.5)	77Se (238.9)	901.7 (<0.1)	200Hg (367.9)
882.3 (4.0)	140La (5097.9)	891.2 (0.3)	158Gd (181.9)	901.9 (<0.3)	156Gd (89.0)
882.3 (66.7)	162Dy (185.0)	891.3 (6.5)	249Cm (1408.3)	902.0 (13.4)	199Au (493.5)
882.4 (1.7)	77Se (238.9)	891.3 (31.0)	184W (111.2)	902.0 (0.8)	158Gd (181.9)
882.8 (1.2)	184W (111.2)	891.4 (3.2)	153Sm (127.3)	902.2 (0.8)	177Lu (150.4)
882.8 (<0.1)	96Mo (778.3)	891.5 (0.1)	96Mo (778.3)	902.3 (0.2)	78Se (613.8)
883.3 (0.3)	146Nd (7110.8)	891.5 (0.9)	233Th (3473.0)	902.4 (<0.1)	96Mo (778.3)
883.4 (0.5)	145Nd (852.8)	891.6 (19.5)	187W (5261.8)	902.5 (3.4)	103Ru (174.0)
883.5 (6.4)	71Ge (499.8)	892.0 (0.3)	202Hg (439.5)	902.6 (2.1)	158Gd (181.9)
883.5 (<0.1)	105Ru (143.2)	892.2 (26.0)	87Kr (1475.9)	902.9 (3.4)	92Zr (934.5)
883.6 (2.2)	60Co (229.8)	892.3 (4.7)	140La (5097.9)	902.9 (11.1)	153Sm (127.3)
883.7 (1.5)	80Br (37.1)	892.3 (1.3)	235U (4155.1)	903.3 (63.2)	184W (111.2)
883.8 (0.2)	98Mo (787.4)	893.1	124Sb	903.3 (41.7)	185W (4573.6)
884.0 (0.6)	193Os (5276.0)	893.3 (0.2)	158Gd (181.9)	903.3 (0.1)	233Th (3473.0)
884.2 (0.4)	158Gd (181.9)	893.4 (<0.1)	68Zn (1077.4)	903.5 (<0.1)	200Hg (367.9)
884.2 (2.4)	148Sm (550.0)	894.0 (0.9)	171Er (197.9)	903.5 (4.7)	236U (642.2)
884.2 (0.5)	177Lu (150.4)	894.1 (10.3)	142Pr (176.9)	903.6 (0.3)	190Os (186.7)
884.4 (0.3)	168Er (6228.8)	894.6 (34.6)	185W (4573.6)	903.7 (3.1)	116In (273.0)
884.5 (<0.1)	75Ge (574.7)	894.6 (0.4)	235U (4155.1)	903.7 (<0.1)	143Nd (742.1)
884.7 (0.6)	92Zr (934.5)	894.7	175Yb	903.9 (10.4)	147Nd (314.7)
884.9	94Nb	894.8 (35.0)	184W (111.2)	904.0 (0.8)	70Ca (508.4)
885.0 (5.3)	78Se (613.8)	894.9 (1.5)	105Ru (143.2)	904.0 (14.2)	171Er (197.9)
885.1 (2.6)	116In (273.0)	895.3 (0.5)	177Lu (150.4)	904.2 (1.1)	177Lu (150.4)
885.1 (0.7)	198Au (214.8)	895.6 (0.7)	188Os (155.0)	904.4 (0.1)	200Hg (367.9)
885.2 (<0.1)	152Eu (89.8)	895.7 (1.3)	105Ru (143.2)	904.6 (0.1)	68Zn (1077.4)
885.3 (<0.1)	156Gd (89.0)	895.8 (0.5)	114In (311.7)	904.6 (0.2)	77Se (238.9)
885.5 (0.4)	204Tl (139.9)	895.9	94Nb	904.7 (1.9)	114In (311.7)
885.6 (0.4)	233Th (3473.0)	896.1 (0.6)	116In (273.0)	904.7	175Yb
886.0 (0.2)	235U (4155.1)	896.2 (6.5)	177Yb (151.6)	904.8 (0.6)	150Sm (334.0)
886.1 (0.3)	158Gd (181.9)	896.3 (0.5)	156Gd (89.0)	904.9 (2.3)	103Ru (174.0)
886.2 (4.3)	200Hg (367.9)	896.4	210Bi	905.0 (0.8)	72Ga (145.1)
886.2 (2.9)	236U (642.2)	896.5 (1.9)	105Ru (143.2)	905.0 (1.3)	235U (4155.1)
886.3 (36.8)	171Yb (6614.7)	896.6 (0.7)	64Cu (7916.0)	905.1 (0.3)	158Gd (89.0)
886.4 (5.4)	71Ge (499.8)	896.7 (<0.1)	200Hg (367.9)	905.3 (<0.1)	200Hg (367.9)
886.4 (8.3)	77Se (238.9)	896.7	124Sb	905.5 (2.0)	148Sm (550.0)
886.6 (0.6)	198Au (214.8)	896.8 (3.8)	163Dy (351.1)	905.7 (1.1)	198Au (214.8)
886.6 (<0.1)	156Gd (89.0)	897.0 (0.7)	158Gd (181.9)	906.4 (33.2)	171Yb (6614.7)

Table I. CAPTURE γ 's - energy sorted (cont.)

Energy (keV) ($\times 10^3$)	Nucleus (Strongest γ)	Energy (keV) ($\times 10^3$)	Nucleus (Strongest γ)	Energy (keV) ($\times 10^3$)	Nucleus (Strongest γ)
906.5 (0.9)	158Gd (181.9)	917.0	124Sb	928.8 (0.5)	114In (311.7)
906.5 (0.1)	144Nd (696.5)	917.0 (1.9)	163Dy (351.1)	928.8 (0.9)	168Er (6228.8)
906.7 (0.2)	146Nd (7110.8)	917.1 (17.9)	162Dy (185.0)	929.8 (0.3)	143Nd (742.1)
906.8 (3.8)	114In (311.7)	917.2 (<0.1)	143Nd (742.1)	930.0 (1.2)	184W (111.2)
906.8 (1.2)	145Nd (852.8)	917.5 (3.8)	158Gd (181.9)	930.2 (0.3)	75Se (286.6)
908.9 (3.1)	147Nd (314.7)	917.9 (<0.1)	200Hg (367.9)	930.3	124Sb
907.1 (0.3)	233Th (3473.0)	918.0 (8.7)	114In (311.7)	930.4 (0.3)	77Se (238.9)
907.4 (4.1)	103Ru (174.0)	918.1 (<0.1)	88Sr (1836.1)	930.5 (0.2)	158Gd (181.9)
907.6 (1.3)	61Ni (7819.6)	918.1	179Hf	930.6 (1.1)	116In (273.0)
907.9 (<0.1)	177Lu (150.4)	918.2 (0.4)	158Gd (181.9)	930.8 (0.2)	80Br (37.1)
908.3 (14.3)	55Cr (6246.4)	918.2 (1.1)	235U (4155.1)	931.0 (3.2)	55Fe (9297.8)
908.4 (<0.1)	158Gd (89.0)	918.4	179Hf	931.1 (0.5)	235U (4155.1)
908.5 (3.3)	202Hg (439.5)	918.4 (0.5)	233Th (3473.0)	931.2 (6.2)	60Co (229.8)
908.8	169Yb	918.9 (<0.1)	236U (642.2)	931.5 (1.0)	204Tl (139.9)
908.9 (0.9)	80Br (37.1)	919.3 (0.1)	168Er (6228.8)	931.6 (5.9)	188Os (155.0)
909.1 (1.2)	105Ru (143.2)	919.5 (1.2)	80Br (37.1)	931.8 (7.3)	116Sn (1293.5)
909.1 (18.8)	187W (5261.8)	919.6 (0.8)	190Os (186.7)	931.8 (0.2)	144Nd (696.5)
909.1 (13.1)	236U (642.2)	920.0 (2.2)	142Pr (176.9)	932.0 (0.6)	72Ga (145.1)
909.4 (1.2)	167Er (207.8)	920.2 (5.8)	71Ge (499.8)	932.4 (0.5)	156Gd (89.0)
909.5 (0.4)	158Gd (181.9)	920.2 (0.1)	153Gd (181.9)	932.7 (7.0)	75Ge (574.7)
909.6 (1.7)	98Mo (787.4)	920.2 (0.5)	177Lu (150.4)	932.8 (0.9)	165Dy (108.2)
909.7 (40.5)	171Yb (6614.7)	920.5 (0.3)	114Cd (1660.3)	932.8 (2.9)	187W (5261.8)
910.2 (0.1)	158Gd (181.9)	920.5 (4.1)	236U (642.2)	932.9 (0.3)	190Os (186.7)
910.2 (2.8)	87Sr (8039.8)	920.6 (0.3)	75Se (286.6)	933.0 (1.2)	70Ga (508.4)
910.6 (0.9)	177Lu (150.4)	920.7 (0.6)	145Nd (852.8)	933.4 (2.8)	145Nd (852.8)
910.8 (0.7)	116In (273.0)	920.8	122Sb	933.5	124Sb
910.9 (6.1)	193Os (5276.0)	920.8 (1.7)	184W (111.2)	933.6 (0.4)	177Lu (150.4)
910.9 (7.5)	204Tl (139.9)	921.0 (2.9)	57Fe (7631.6)	933.6 (1.7)	239Pu (4821.8)
911.1 (0.8)	150Sm (334.0)	921.0 (<0.1)	165Dy (108.2)	933.7 (0.6)	80Br (37.1)
911.5 (<0.1)	200Hg (367.9)	921.1 (1.1)	147Nd (314.7)	934.1 (2.6)	116In (273.0)
911.8 (0.3)	77Se (238.9)	921.5 (1.1)	114In (311.7)	934.2 (0.7)	138Ba (1435.6)
911.8 (1.1)	235U (4155.1)	921.5 (36.4)	171Yb (6614.7)	934.5 (100.0)	92Zr (934.5)
911.9	172Yb	921.6 (0.5)	143Nd (742.1)	934.5 (1.1)	114In (311.7)
912.0 (5.3)	153Sm (127.3)	921.8 (0.4)	80Br (37.1)	934.7 (<0.1)	96Mo (778.3)
912.0 (0.6)	78Se (613.8)	922.1 (<0.1)	150Sm (334.0)	934.8 (1.5)	188Os (155.0)
912.0 (2.8)	162Dy (185.0)	922.1 (9.3)	236U (642.2)	935.1 (5.2)	71Ge (499.8)
912.6 (73.2)	185W (4573.6)	922.3 (1.0)	156Gd (89.0)	935.1 (<0.1)	187Os (427.1)
912.7 (5.5)	236U (642.2)	922.5 (1.3)	158Gd (181.9)	935.4 (0.2)	200Hg (367.9)
912.8 (9.2)	92Zr (934.5)	923.2 (0.3)	146Nd (7110.8)	935.8 (1.7)	140La (5097.9)
912.8 (2.0)	75Se (286.6)	923.7 (<0.1)	158Gd (181.9)	936.0 (0.2)	177Lu (150.4)
913.2 (0.2)	51Cr (749.0)	924.2 (1.0)	145Nd (852.8)	936.2	124Sb
913.4 (0.3)	156Gd (89.0)	924.2 (0.3)	80Br (37.1)	936.3 (0.5)	158Gd (181.9)
913.4 (0.2)	158Gd (181.9)	924.3 (7.8)	199Au (493.5)	936.5 (8.2)	142Pr (176.9)
913.5 (1.3)	198Au (214.8)	924.4 (8.9)	153Sm (127.3)	936.6 (<0.1)	76As (165.0)
913.6 (0.3)	233Th (3473.0)	924.6 (1.8)	167Er (207.8)	936.6 (2.8)	187W (5261.8)
913.7 (3.7)	73Ge (326.0)	924.7 (0.9)	193Os (5276.0)	936.7 (0.2)	68Zn (1077.4)
913.8 (10.0)	86Rb (557.0)	925.1 (0.2)	144Nd (696.5)	936.7 (<0.1)	156Gd (89.0)
914.0 (4.2)	114In (311.7)	925.3 (1.8)	116In (273.0)	936.7 (2.1)	177Yb (151.6)
914.0 (5.6)	187W (5261.8)	925.4 (0.4)	114In (311.7)	937.0 (0.4)	88Sr (1836.1)
914.4	124Sb	925.5 (<0.1)	96Mo (778.3)	937.0 (6.7)	145Nd (852.8)
914.5 (3.1)	80Br (37.1)	925.6 (3.0)	87Sr (8039.8)	937.0 (2.6)	162Dy (185.0)
914.6 (0.2)	96Mo (778.3)	925.6 (0.5)	158Gd (181.9)	937.5 (7.4)	103Ru (174.0)
914.7	179Hf	925.7 (0.2)	188Os (155.0)	937.7 (2.6)	61Ni (7819.6)
914.7 (7.3)	249Cm (1408.3)	925.7 (0.4)	239Pu (4821.8)	938.1 (0.4)	156Gd (89.0)
914.9 (4.4)	168Er (6228.8)	925.8 (0.2)	156Gd (89.0)	938.5 (0.2)	158Gd (161.9)
914.9	179Hf	925.8 (0.3)	75Se (286.6)	938.7 (2.8)	66Cu (185.9)
915.0 (5.8)	158Gd (181.9)	926.5	169Yb	938.7	81Se
915.1 (0.3)	156Gd (89.0)	926.8 (1.5)	64Cu (7916.0)	938.9 (0.7)	198Au (214.8)
915.1 (6.9)	236U (642.2)	927.0 (<0.1)	76As (165.0)	938.9 (0.7)	235U (4155.1)
915.2 (0.5)	143Ce (4337.8)	927.1 (0.5)	156Gd (89.0)	939.2 (2.6)	74Ge (595.7)
915.2 (3.6)	148Sm (550.0)	927.2 (0.5)	177Lu (150.4)	939.3 (0.2)	190Os (186.7)
915.3 (2.3)	116In (273.0)	927.8 (0.3)	77Se (238.9)	939.4 (4.7)	140La (5097.9)
915.4	81Se	927.8 (1.3)	235U (4155.1)	939.6 (1.9)	116In (273.0)
915.7 (<0.1)	242Pu (5476.9)	927.9 (1.9)	48Ti (983.7)	939.7 (0.4)	188Os (155.0)
916.0 (1.9)	198Au (214.8)	927.9 (0.5)	80Br (37.1)	940.2 (1.0)	177Lu (150.4)
916.1 (<0.1)	68Zn (1077.4)	927.9 (4.4)	190Os (186.7)	940.3 (0.3)	156Gd (181.9)
916.2 (0.5)	235U (4155.1)	928.1 (<0.1)	75Ge (574.7)	940.4 (2.4)	114In (311.7)
916.3 (2.4)	177Lu (150.4)	928.2 (0.2)	51Cr (749.0)	940.8 (0.9)	167Er (207.8)
916.6 (5.5)	71Ge (499.8)	928.4 (<0.1)	96Mo (778.3)	940.9 (2.8)	187W (5261.8)
916.7 (0.1)	144Nd (696.5)	928.4 (<0.1)	233Th (3473.0)	940.9 (0.6)	156Gd (89.0)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E_γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E_γ keV ($\% \gamma$)	Nucleus (Strongest γ)
941.1 (<0.1)	242Pu (5476.9)	951.4 (0.2)	233Th (3473.0)	963.4 (1.8)	60Co (229.8)
941.2 (0.5)	175Yb (181.9)	951.5 (0.2)	1880s (155.0)	963.9 (2.3)	84Kr (881.8)
941.2 (0.8)	158Gd (127.3)	951.8 (1.5)	77Se (238.9)	963.9 (36.4)	171Yb (6614.7)
941.2 (10.9)	235U (4155.1)	951.8 (0.3)	1900s (186.7)	964.2	172Yb
	153Sm (127.3)	952.1 (1.5)	75Se (286.6)	964.4 (1.1)	145Nd (852.8)
941.3 (0.9)	184W (111.2)	952.4 (<0.1)	156Gd (89.0)	965.0 (4.8)	1850s (6588.0)
941.5 (3.8)	171Er (197.9)	952.5 (0.2)	168Er (6228.8)	965.3 (1.1)	235U (4155.1)
941.5 (0.9)	177Lu (150.4)	952.7 (0.7)	80Br (37.1)	965.7 (1.3)	1161n (273.0)
941.8 (0.5)	233Th (3473.0)	952.7 (0.1)	98Mo (787.4)	965.8 (<0.1)	236U (642.2)
942.0 (18.7)	249Cm (1408.3)	952.9 (1.1)	158Gd (181.9)	965.9 (0.5)	158Gd (181.9)
942.0 (5.5)	147Nd (314.7)	953.0 (1.8)	1141n (311.7)	965.9 (0.6)	177Lu (150.4)
942.3 (0.8)	158Gd (181.9)	953.2 (5.9)	177Yb (151.6)	966.0 (0.9)	1640y (73.4)
942.5 (0.2)	77Se (238.9)	953.3 (1.6)	198Au (214.8)	966.3 (0.5)	96Mo (778.3)
942.7 (0.3)	45Ca (174.3)	953.4 (0.7)	184W (111.2)	966.7 (4.1)	142Pr (176.9)
	124Sb (1408.3)	953.8 (2.0)	140La (5097.9)	967.0 (<0.1)	236U (642.2)
943.0 (0.4)	78Se (613.8)	953.9 (<0.1)	156Gd (89.0)	967.2 (0.2)	1880s (155.0)
943.0 (16.2)	236U (642.2)	954.1	175Yb (150.4)	967.5 (0.1)	144Nd (696.5)
943.7 (8.2)	142Pr (176.9)	954.2 (9.1)	153Sm (127.3)	967.7 (1.0)	177Lu (150.4)
943.8 (6.4)	84Kr (881.8)	954.3 (0.9)	158Gd (181.9)	967.8 (29.8)	199Au (493.5)
943.8 (27.6)	177Yb (151.6)	954.9 (0.4)	177Lu (150.4)	967.8 (0.5)	77Se (238.9)
943.9 (0.2)	144Nd (696.5)	954.9 (<0.1)	144Nd (696.5)	967.9 (0.4)	80Br (37.1)
944.1 (12.9)	147Nd (314.7)	955.1 (0.4)	1900s (186.7)	968.0 (1.6)	233Th (3473.0)
944.1 (46.7)	158Gd (181.9)	955.6 (5.3)	235U (4155.1)	968.1 (0.7)	145Nd (852.8)
944.2 (13.0)	87Kr (1475.9)	956.0 (0.7)	158Gd (181.9)	968.2 (0.7)	62Ni (1172.8)
944.2 (0.1)	96Mo (778.3)	956.2 (17.8)	236U (642.2)	968.2 (0.2)	158Gd (181.9)
944.3 (5.1)	116In (273.0)	956.3 (0.4)	116In (273.0)	968.2 (1.6)	96Mo (778.3)
944.3 (<0.1)	156Gd (89.0)	956.4	179Hf (150.4)	968.2 (7.8)	249Cm (1408.3)
944.3 (20.3)	185W (4573.6)	956.6 (<0.1)	233Th (3473.0)	968.4 (<0.1)	169Er (429.9)
944.4 (7.1)	48Ti (983.7)	957.2 (<0.1)	200Hg (367.9)	968.4 (4.0)	235U (4155.1)
944.6 (11.3)	162Dy (185.0)	957.3	175Yb (150.4)	968.5 (0.2)	78Se (613.8)
944.6 (0.4)	202Hg (439.5)	957.3 (0.1)	1880s (155.0)	968.6 (<0.1)	156Gd (89.0)
944.6 (2.2)	158Gd (181.9)	957.3 (2.9)	147Nd (314.7)	968.7 (0.5)	1141n (311.7)
944.7 (4.2)	86Rb (557.0)	957.5 (14.4)	142Pr (176.9)	968.9 (2.1)	1161n (273.0)
944.7 (0.6)	98Mo (787.4)	957.6 (3.9)	249Cm (1408.3)	969.0 (<0.1)	124Te (602.4)
944.9 (1.3)	235U (4155.1)	957.7 (<0.1)	233Th (3473.0)	969.1 (1.5)	103Ru (174.0)
945.0 (<0.1)	1650y (108.2)	957.7 (0.5)	1141n (311.7)	969.8 (8.3)	156Gd (89.0)
945.0	175Yb (181.9)	957.8 (1.2)	45Ca (174.3)	969.9 (<0.1)	178Hf (213.4)
945.2 (10.0)	60Co (229.8)	958.2 (0.9)	177Lu (150.4)	969.9 (2.4)	235U (4155.1)
945.4 (<0.1)	200Hg (367.9)	958.3 (2.5)	66Cu (185.9)	969.9 (10.0)	153Sm (127.3)
945.6 (0.6)	177Lu (150.4)	958.3 (7.8)	236U (642.2)	970.1 (2.6)	162Dy (185.0)
946.3 (0.4)	146Nd (7110.8)	958.7 (0.1)	77Se (238.9)	970.8 (0.6)	80Br (37.1)
946.4 (1.0)	145Nd (852.8)	958.8 (0.2)	78Se (613.8)	971.0 (3.3)	167Er (207.8)
946.5 (0.4)	156Gd (89.0)	958.8	94Nb (150.4)	971.0 (1.1)	198Au (214.8)
946.8 (1.1)	64Cu (7916.0)	959.7 (2.6)	64Cu (7916.0)	971.0 (4.7)	98Mo (787.4)
947.0 (0.9)	70Ga (508.4)	959.8 (0.3)	80Br (37.1)	971.1 (0.5)	177Lu (150.4)
947.0 (1.8)	138Ba (1435.6)	959.9 (5.5)	236U (642.2)	971.3 (0.2)	1880s (155.0)
947.2 (2.9)	77Se (238.9)	960.0 (0.8)	158Gd (181.9)	971.7 (<0.1)	76As (165.0)
947.2	175Yb (181.9)	960.1 (1.4)	156Gd (89.0)	971.7 (0.4)	105Ru (143.2)
947.2 (0.2)	233Th (3473.0)	960.1 (3.7)	202Hg (439.5)	971.9	210Bi
947.3 (<0.1)	200Hg (367.9)	960.6	169Yb (150.4)	971.9	124Sb
947.7 (2.7)	1161n (273.0)	960.7 (0.2)	96Mo (778.3)	972.3 (1.7)	143Ce (4337.8)
947.8 (0.1)	96Mo (778.3)	961.1 (10.9)	74Ge (595.7)	972.3 (1.8)	92Zr (934.5)
947.9 (0.3)	144Nd (696.5)	961.1	175Yb (150.4)	972.5 (4.4)	1161n (273.0)
948.2	94Nb (150.4)	961.5	172Yb (150.4)	972.5 (1.9)	198Au (214.8)
948.2 (0.3)	158Gd (181.9)	961.5 (<0.1)	1880s (155.0)	972.6 (0.2)	158Gd (181.9)
948.8 (0.3)	1141n (311.7)	961.6 (7.0)	73Ge (326.0)	972.6 (10.6)	116Sn (1293.5)
948.9 (0.8)	156Gd (89.0)	962.0 (8.7)	147Nd (314.7)	972.9 (32.7)	101Mo (180.7)
948.9 (<0.1)	1900s (186.7)	962.1 (29.7)	158Gd (181.9)	973.7 (0.4)	143Nd (742.1)
949.1 (7.5)	185W (4573.6)	962.2 (2.5)	75Se (286.6)	973.9 (0.4)	77Se (238.9)
949.2 (7.1)	235U (4155.1)	962.2 (<0.1)	178Hf (213.4)	973.9 (0.4)	78Se (613.8)
949.4 (0.8)	80Br (37.1)	962.2 (0.7)	235U (4155.1)	973.9 (7.7)	66Cu (185.9)
949.5 (0.2)	143Nd (742.1)	962.3 (0.9)	1141n (311.7)	974.3 (0.7)	156Gd (89.0)
949.7	81Se (150.4)	962.4 (1.2)	116Sn (1293.5)	974.8 (<0.1)	88Sr (1836.1)
949.9 (2.8)	204Tl (139.9)	962.4 (0.3)	177Lu (150.4)	974.9 (<0.1)	242Pu (5476.9)
950.0	124Sb (1408.3)	962.6 (0.2)	80Br (37.1)	974.9 (0.5)	98Mo (787.4)
950.3 (1.3)	105Ru (143.2)	962.7 (2.4)	167Er (207.8)	975.0 (0.6)	204Tl (139.9)
950.3 (2.8)	202Hg (439.5)	963.0 (0.6)	77Se (238.9)	975.2 (0.5)	200Hg (367.9)
950.9 (7.4)	235U (4155.1)	963.1 (4.1)	249Cm (1408.3)	975.4 (0.1)	68Zn (1077.4)
951.2 (15.7)	1930s (5276.0)	963.1 (2.4)	1161n (273.0)	975.4 (0.7)	158Gd (181.9)
951.4 (1.1)	177Lu (150.4)	963.2 (0.8)	143Ce (4337.8)	975.7	179Hf

Table 1. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\times 10^3$)	Nucleus (Strongest γ)	E_{γ} keV ($\times 10^3$)	Nucleus (Strongest γ)	E_{γ} keV ($\times 10^3$)	Nucleus (Strongest γ)
975.7 (15.6)	185W (4573.6)	988.3 (0.5)	143Ce (4337.8)	1000.0 (0.4)	235U (4155.1)
975.8 (0.2)	78Se (613.8)	988.6 (5.6)	153Sm (127.3)	1000.0 (0.6)	177Lu (4150.4)
975.8 (7.2)	142Pr (76.2)	<0.1 (0.9)	54Cr (884.1)	1000.3 (0.4)	180Os (155.0)
976.2 (<0.1)	73Ge (326.0)	989.1 (0.9)	157Er (207.8)	1000.8 (1.3)	158Gd (181.9)
976.5 (0.2)	96Mo (778.3)	989.2 (<0.1)	76As (165.0)	1000.9 (<0.1)	156Gd (89.0)
976.6 (21.4)	124Sb (186.7)	989.6 (0.7)	77Se (238.9)	1001.0 (0.1)	190Os (186.7)
976.6 (1.4)	190Os (186.7)	<0.1 (8.3)	159Er (429.9)	1001.1 (0.2)	63Ni (683.2)
977.1 (5.5)	233Th (3473.0)	989.6 (8.3)	157Gd (521.8)	1001.5 (0.7)	151Sm (273.0)
977.2 (1.8)	158Gd (181.9)	990.0 (0.5)	145Ba (111.2)	1001.7 (0.4)	124Sb (77Se (238.9)
977.3 (0.8)	235U (4155.1)	990.2 (6.4)	235U (4155.1)	1001.9 (5.2)	52V (125.1)
977.4 (10.2)	80Br (37.1)	990.2 (2.6)	236U (432.2)	1001.9 (0.2)	237Th (3473.0)
977.6 (14.7)	236U (642.2)	990.4 (1.0)	31Cr (745.0)	1002.1 (0.2)	51Cr (749.0)
978.0 (2.6)	187Os (127.3)	990.5 (2.7)	92Zr (934.0)	1002.1 (<0.1)	168Er (429.9)
978.0 (1.0)	103Ru (174.0)	990.7 (0.7)	237Th (3473.0)	1002.1 (0.9)	80Br (77Se (238.9)
978.0 (<0.1)	150Sm (334.0)	991.2 (16.5)	142Pr (176.9)	1002.2 (3.6)	235U (4155.1)
978.1 (2.8)	140La (5097.9)	991.3 (37.7)	171Yb (664.7)	1002.5 (5.2)	163Dy (163Dy (4155.1)
978.3 (2.3)	90Y (776.7)	991.7 (0.1)	96Mo (778.3)	1002.5 (0.1)	163Dy (365.9)
978.4 (1.0)	177Lu (150.4)	991.9 (1.3)	77Se (238.9)	1002.6 (0.9)	173Yb (173Yb (399.4)
978.6 (1.9)	75Se (286.6)	992.0 (2.1)	186Au (214.8)	1002.6 (0.7)	158Gd (181.9)
978.9 (1.1)	235U (4155.1)	992.1 (4.2)	174Yb (176.6)	1002.7 (0.2)	146Nd (7110.8)
979.1 (0.7)	114In (311.7)	992.1 (2.7)	161Tb (273.0)	1002.7 (1.8)	172Yb (172Yb (351.1)
979.3 (17.9)	153Sm (127.3)	992.1 (6.4)	140La (5097.9)	1003.1 (0.1)	187W (5281.8)
979.4 (0.2)	158Gd (181.9)	992.3 (0.1)	200Hg (367.9)	1003.6 (<0.1)	96Mo (778.3)
979.6 (3.7)	187W (5261.8)	992.5 (0.5)	177Lu (150.4)	1003.6 (0.2)	144Nd (696.5)
979.8 (0.5)	233Th (3473.0)	992.7 (0.6)	158Gd (181.9)	1003.8 (1.3)	60Co (229.8)
980.0 (0.3)	188Os (185.0)	992.8 (2.8)	235U (4155.1)	1004.0 (6.1)	75Se (286.6)
980.2 (15.4)	162Dy (155.0)	992.8 (6.5)	235U (4155.1)	1004.0 (9.4)	158Gd (181.9)
980.2 (<0.1)	68Zn (1077.4)	993.0 (1.4)	185W (2047.1)	1004.0 (9.4)	173Yb (173Yb (399.4)
980.7 (0.3)	200Hg (367.9)	993.4 (1.6)	136Ba (818.6)	1004.1 (3.5)	179Hf (179Hf (151.6)
980.8 (3.0)	77Se (238.9)	993.6 (<0.1)	88Sr (1836.1)	1004.1 (2.3)	105Ru (143.2)
981.2 (1.6)	144Nd (4155.1)	993.9 (4.0)	177Yb (151.6)	1004.6 (0.6)	164Yb (164Yb (111.2)
981.3 (4.1)	136Ba (818.6)	994.5 (2.4)	163Dy (351.1)	1005.2 (<0.1)	233Th (3473.0)
981.9 (41.0)	249Cm (1408.3)	994.9 (2.6)	103Ru (174.0)	1005.2 (0.8)	78Se (613.8)
981.9 (26.5)	187Os (1408.3)	994.9 (<0.1)	266U (642.2)	1005.4 (3.9)	77Se (238.9)
982.1 (4.3)	249Cm (1408.3)	995.0 (0.6)	77Se (238.9)	1005.8 (0.6)	142Pr (176.9)
982.3 (4.9)	193Os (5276.0)	995.0 (0.3)	177Lu (150.4)	1005.8 (0.4)	158Gd (181.9)
982.4 (0.9)	184W (111.2)	995.2 (2.9)	70Ga (508.4)	1006.0 (0.4)	235U (4155.1)
982.5 (5.9)	177Yb (151.6)	995.2 (<0.1)	143Nd (742.1)	1006.0 (7.6)	156Gd (89.0)
982.6 (0.5)	175Yb (273.0)	995.2 (1.2)	167Er (207.8)	1006.2 (0.4)	236U (642.2)
982.7 (0.3)	158Gd (181.9)	995.5 (1.6)	235U (4155.1)	1006.2 (0.4)	175Yb (175Yb (37.1)
982.9 (0.3)	78Se (613.8)	995.6 (1.2)	173Yb (399.4)	1007.0 (1.7)	140La (5097.9)
983.1 (60.0)	249Cm (1408.3)	995.7 (0.9)	172Yb (172Yb (399.4)	1007.1 (<0.1)	184W (184W (111.2)
983.1 (0.3)	96Mo (5276.0)	995.7 (2.7)	158Gd (181.9)	1007.3 (1.5)	165Dy (165Dy (108.2)
983.2 (4.9)	235U (4155.1)	996.1 (1.7)	147Nd (314.7)	1007.4 (21.4)	185W (4573.6)
983.4 (1.3)	114In (311.7)	996.1 (0.8)	98Mo (787.4)	1007.6 (4.2)	144Nd (696.5)
983.7 (100.0)	48Ti (983.7)	996.2 (<0.1)	168Er (6228.8)	1008.0 (100.0)	187W (5261.8)
983.9 (42.6)	249Cm (1408.3)	996.4 (4.7)	172Lu (150.4)	1008.0 (3.3)	69Zn (1008.0)
984.0 (3.8)	193Os (5276.0)	996.4 (<0.1)	205Pb (6731.5)	1008.2 (3.3)	124Sb (124Sb (143.2)
984.0 (0.6)	158Gd (181.9)	996.5 (0.2)	237Th (3473.0)	1008.3 (0.3)	105Ru (143.2)
985.5 (0.4)	98Mo (787.4)	996.5 (0.2)	237Th (3473.0)	1008.4 (<0.1)	178Hf (178Hf (213.4)
985.7 (<0.1)	179Hf (356.1)	997.3 (0.5)	96Mo (778.3)	1008.5 (0.5)	80Br (77Se (238.9)
986.0 (0.6)	116In (273.0)	997.7 (0.8)	101Mo (180.7)	1008.8 (<0.1)	200Hg (200Hg (365.9)
986.8 (0.9)	84Kr (881.8)	997.7 (2.3)	175Hf (273.0)	1009.2 (1.3)	173Yb (173Yb (37.1)
986.8 (1.8)	114In (311.7)	998.3 (2.3)	147Nd (314.7)	1009.2 (1.3)	235U (4155.1)
986.8 (0.9)	158Gd (181.9)	998.3 (0.2)	156Gd (89.0)	1009.6 (0.5)	177Lu (177Lu (155.4)
986.9 (1.1)	140La (5097.9)	998.4 (8.1)	158Gd (181.9)	1009.6 (3.0)	156Gd (89.0)
987.0 (3.9)	235U (4155.1)	998.5 (2.4)	172Yb (172Yb (399.4)	1010.2 (0.6)	75Se (286.6)
987.3 (2.2)	190Os (186.7)	998.7 (<0.1)	144Nd (696.5)	1010.2 (<0.1)	158Gd (181.9)
987.4 (5.2)	177Yb (151.6)	999.9 (4.0)	66Cu (185.8)	1010.2 (7.6)	200Hg (200Hg (365.9)
987.5 (0.4)	177Lu (150.4)	999.0 (<0.1)	146Nd (7110.8)	1010.3 (17.7)	138Ba (138Ba (1433.6)
987.6 (2.1)	188Os (155.0)	999.0 (0.6)	168Er (6228.8)	1011.0 (<0.1)	184W (184W (111.2)
987.6 (0.3)	98Mo (787.4)	999.7 (0.1)	202He (535.7)	1011.0 (1.0)	136Ba (136Ba (818.6)
987.9 (0.7)	156Gd (89.0)	999.8 (4.8)	74Ge (535.7)	1011.4 (4.0)	190Os (190Os (186.7)
988.2 (0.7)	175Yb (151.6)	999.9 (4.8)	169Yb (169Yb (151.6)	1012.0 (0.8)	167Er (167Er (207.8)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\% \gamma$)	Nucleus (Strongest γ)	E_{γ} keV ($\% \gamma$)	Nucleus (Strongest γ)	E_{γ} keV ($\% \gamma$)	Nucleus (Strongest γ)
1012.2 (26.7)	249Cm (1408.3)	1023.4 (2.5)	116In (273.0)	1034.4 (1.5)	114In (311.7)
1012.3 (<0.1)	146Nd (7110.8)	1023.5 (0.2)	144Nd (696.5)	1034.5 (1.9)	158Gd (181.9)
1012.3 (7.1)	187W (5261.8)	1023.6 (7.7)	98Mo (787.4)	1034.9 (<0.1)	200Hg (367.9)
1012.5 (0.8)	168Er (6228.8)	1023.7 (0.6)	75Se (286.6)	1035.4	179Hf
1012.7	179Hf		169Yb	1035.5 (0.9)	177Lu (150.4)
1013.1 (1.3)	184W (111.2)	1023.8 (8.6)	153Sm (127.3)	1035.9 (0.4)	158Gd (181.9)
1013.2 (0.1)	96Mo (778.3)	1024.0 (1.0)	204Tl (139.9)	1036.0 (0.4)	1900s (186.7)
1013.3 (52.9)	1870s (427.1)	1024.1 (1.1)	233Th (3473.0)	1036.0 (0.6)	204Tl (139.9)
1013.4 (1.4)	233Th (3473.0)	1024.7 (3.1)	142Pr (176.9)	1036.2	179Hf
1013.6	124Sb	1024.7 (0.6)	235U (4155.1)	1036.2 (0.2)	1880s (155.0)
1013.7 (45.1)	249Cm (1408.3)	1025.1 (<0.1)	1900s (186.7)	1036.2 (1.4)	198Au (214.8)
1013.7 (3.1)	114In (311.7)	1025.2 (1.0)	140La (5097.9)	1036.3	124Sb
1013.9 (0.3)	200Hg (367.9)	1025.2	179Hf	1036.6 (1.5)	103Ru (174.0)
1014.0 (0.3)	158Gd (181.9)	1025.3 (0.8)	158Gd (181.9)	1036.7 (1.3)	156Gd (89.0)
1014.0 (0.4)	78Se (613.8)	1025.6 (0.4)	68Zn (1077.4)	1036.8 (<0.1)	146Nd (7110.8)
1014.0	172Yb	1025.6 (0.6)	168Er (6228.8)	1036.9 (0.6)	80Br (37.1)
1014.1 (3.5)	177Lu (150.4)	1025.6 (0.7)	177Lu (150.4)	1037.0 (3.0)	140La (5097.9)
1014.1 (13.1)	236U (642.2)	1025.8 (0.5)	78Se (613.8)	1037.2 (0.2)	158Gd (181.9)
1014.6 (3.1)	46Sc (227.8)	1025.9 (1.7)	114In (311.7)	1037.6 (<0.1)	1900s (186.7)
1014.6 (4.5)	1850s (6588.0)	1026.0 (1.6)	116In (273.0)	1037.6 (<0.1)	1880s (427.1)
1014.9 (25.6)	249Cm (1408.3)	1026.0 (0.4)	45Ca (174.3)	1037.8 (8.3)	167Er (207.8)
1015.0 (0.5)	233Th (3473.0)	1026.0 (0.1)	77Se (238.9)	1038.0 (1.7)	70Ga (508.4)
1015.7 (<0.1)	178Hf (213.4)	1026.2 (2.4)	163Dy (351.1)	1038.0 (2.0)	71Ge (499.8)
1015.9 (2.6)	235U (4155.1)	1026.2	172Yb	1038.0 (<0.1)	200Hg (367.9)
1016.1 (3.8)	84Kr (881.8)	1026.8 (1.3)	143Ce (4337.8)	1738.1 (0.8)	48Ti (983.7)
1016.1 (<0.1)	156Gd (89.0)	1026.9 (39.5)	86Rb (557.0)	1038.5 (0.6)	184W (111.2)
1016.5 (0.8)	150Sm (334.0)	1027.0 (<0.1)	168Er (6228.8)	1038.8 (1.7)	177Lu (150.4)
1016.9 (1.2)	146Nd (7110.8)	1027.1 (0.1)	200Hg (367.9)	1039.2	172Yb
1017.0 (<0.1)	54Cr (8884.1)	1027.1 (4.2)	187W (5261.8)	1039.4 (0.3)	77Se (238.9)
1017.1 (0.3)	98Mo (787.4)	1027.2 (0.4)	156Gd (89.0)	1039.4 (25.5)	171Yb (6614.7)
1017.3 (<0.1)	146Nd (7110.8)	1027.4	124Sb	1039.5 (<0.1)	146Nd (7110.8)
1017.4 (5.4)	71Ge (499.8)	1027.8 (<0.1)	144Nd (696.5)	1039.6 (1.8)	116In (273.0)
1017.4 (0.6)	165Dy (108.2)	1027.8 (26.1)	185W (4573.6)	1040.0 (0.2)	158Gd (181.9)
1017.5 (1.0)	143Nd (742.1)	1028.1 (0.2)	235U (4155.1)	1040.5 (1.5)	156Gd (89.0)
1017.6 (1.2)	105Ru (143.2)	1028.3 (0.6)	158Gd (181.9)	1040.6 (1.6)	147Nd (314.7)
1017.6 (1.7)	114In (311.7)	1028.5 (0.3)	151Nd (4487.8)	1041.3 (2.5)	187W (5261.8)
1017.6 (0.2)	144Nd (696.5)	1029.6 (5.5)	177Yb (151.6)	1041.3 (10.8)	153Sm (127.3)
1017.8 (1.6)	1880s (155.0)	1029.6 (<0.1)	146Nd (7110.8)	1041.4 (1.6)	138Ba (1435.6)
1018.0	169Yb	1029.8 (0.7)	145Nd (852.8)	1041.5 (2.4)	140La (5097.9)
1018.2 (<0.1)	156Gd (89.0)	1029.8 (<0.1)	169Er (429.9)	1041.8 (1.2)	205Pb (6731.5)
1018.3 (0.9)	68Zn (1077.4)	1030.0 (3.7)	132Xe (667.5)	1042.1 (0.7)	158Gd (181.9)
1018.3 (5.6)	187W (5261.8)	1030.1 (0.2)	158Gd (181.9)	1042.1 (0.5)	1880s (155.0)
1018.5 (0.5)	78Se (613.8)	1030.1 (1.1)	167Er (207.8)	1042.2 (0.2)	143Nd (742.1)
1018.6 (<0.1)	57Fe (7631.6)	1030.5 (<0.1)	156Gd (89.0)	1042.4 (0.6)	145Nd (852.8)
1018.6 (<0.1)	1900s (186.7)	1030.5 (1.1)	116In (273.0)	1042.4 (0.2)	200Hg (367.9)
1018.6 (1.8)	184W (111.2)	1030.6 (5.7)	173Yb (399.4)	1042.5 (<0.1)	169Er (429.9)
1018.7 (0.3)	158Gd (181.9)	1030.7 (2.0)	177Lu (150.4)	1042.7 (0.4)	96Mo (778.3)
1019.4 (5.5)	167Er (207.8)	1030.8 (<0.1)	158Gd (181.9)	1043.1 (<0.1)	156Gd (89.0)
1019.5 (0.7)	116In (273.0)	1031.1 (0.2)	233Th (3473.0)	1044.0 (2.5)	70Ga (508.4)
1019.8 (1.9)	235U (4155.1)	1031.1 (9.7)	101Mo (180.7)	1044.0	124Sb
1019.9	124Sb	1031.6 (1.7)	103Ru (174.0)	1044.3 (1.9)	163Dy (351.1)
1019.9 (<0.1)	169Er (429.9)	1031.6 (7.9)	61Ni (7819.6)	1044.3 (0.5)	233Th (3473.0)
1020.0 (2.9)	71Ge (499.8)	1031.7 (0.5)	138Ba (1435.6)	1045.0 (0.3)	124Te (602.4)
1020.9 (6.2)	140La (5097.9)	1031.9 (0.8)	114In (311.7)	1045.0 (3.5)	235U (4155.1)
1021.0 (<0.1)	1900s (186.7)	1031.9 (29.4)	185W (4573.6)	1045.5 (0.2)	158Gd (181.9)
1021.2 (0.2)	158Gd (181.9)	1032.0 (<0.1)	92Zr (934.5)	1045.8 (2.0)	174Yb (176.6)
1021.3	172Yb	1032.4 (1.5)	156Gd (89.0)	1045.9 (0.7)	62Ni (1172.8)
1021.7 (2.2)	171Er (197.9)	1032.6 (2.0)	140La (5097.9)	1046.1 (0.2)	156Gd (89.0)
1022.0 (<0.1)	156Gd (89.0)	1032.6 (1.4)	151Nd (4487.8)	1046.2 (0.1)	68Zn (1077.4)
1022.1 (0.3)	61Ni (7819.6)	1032.7 (1.6)	235U (4155.1)	1046.2 (0.3)	96Mo (778.3)
1022.2 (0.8)	80Br (37.1)	1032.8 (31.1)	86Rb (557.0)	1046.3	179Hf
1022.3 (0.3)	177Lu (150.4)	1032.8	124Sb	1046.4 (<0.1)	48Ti (983.7)
1022.3 (<0.1)	236U (642.2)	1032.9 (8.9)	143Nd (742.1)	1046.4 (0.9)	184W (111.2)
1022.4	175Yb	1033.0 (0.9)	145Nd (852.8)	1046.6 (0.4)	150Sm (334.0)
1022.5 (<0.1)	200Hg (367.9)	1033.2 (2.4)	147Nd (314.7)	1046.7 (0.7)	145Nd (852.8)
1022.6 (2.9)	184W (111.2)	1033.2 (1.6)	187W (5261.8)	1047.3 (0.3)	143Ce (4337.8)
1022.6 (2.5)	60Co (229.8)	1033.7 (2.9)	71Ge (499.8)	1047.3 (0.9)	177Lu (150.4)
1022.6 (1.0)	233Th (3473.0)	1034.0 (0.8)	233Th (3473.0)	1047.4 (0.3)	158Gd (181.9)
1023.3 (0.1)	158Gd (181.9)	1034.0 (0.6)	80Br (37.1)	1047.4 (3.0)	139Ba (627.3)
1023.3 (0.1)	143Nd (742.1)	1034.4 (3.5)	103Ru (174.0)	1047.5 (2.7)	235U (4155.1)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\% \gamma$)	Nucleus (Strongest γ)	E_{γ} keV ($\% \gamma$)	Nucleus (Strongest γ)	E_{γ} keV ($\% \gamma$)	Nucleus (Strongest γ)
1047.6 (1.5)	114In (311.7)	1061.6 (0.3)	158Gd (181.9)	1078.7 (0.9)	80Br (37.1)
1047.7 (0.8)	116In (273.0)	1061.9 (2.5)	177Lu (150.4)	1079.0 (0.3)	158Gd (181.9)
1047.7 (12.2)	136Ba (818.6)	1061.9	179Hf	1079.3 (0.3)	156Gd (89.0)
1048.0 (6.5)	185W (4573.6)	1062.0 (1.2)	204Tl (139.9)	1079.9 (0.9)	78Se (613.8)
1048.1 (11.5)	106Pd (513.0)	1062.0 (0.7)	233Th (3473.0)	1080.0 (1.4)	163Dy (351.1)
1048.2 (2.0)	196Pt (356.1)	1062.2 (0.3)	98Mo (787.4)	1080.1 (23.5)	177Yb (151.6)
1048.5 (0.3)	75Se (286.6)	1062.3 (0.8)	158Gd (181.9)	1080.2 (3.3)	177Lu (150.4)
1048.8 (0.3)	77Se (238.9)	1062.9 (0.7)	77Se (238.9)	1080.3 (3.0)	64Cu (7916.0)
1048.9 (1.7)	177Lu (150.4)	1064.0 (2.8)	139Ba (627.3)	1080.9 (1.1)	158Gd (181.9)
1049.0 (<0.1)	165Dy (108.2)	1064.3 (0.1)	233Th (3473.0)	1081.1 (<0.1)	146Nd (7110.8)
1049.4 (2.0)	150Sm (334.0)	1064.4 (0.6)	98Mo (787.4)	1081.3 (<0.1)	200Hg (367.9)
1049.5 (<0.1)	156Gd (89.0)	1064.6 (0.1)	144Nd (696.5)	1081.4 (0.2)	233Th (3473.0)
1049.6 (<0.1)	96Mo (778.3)	1064.7	169Yb	1081.5 (<0.1)	178Hf (213.4)
1049.6 (0.3)	158Gd (181.9)	1064.7 (2.1)	236U (642.2)	1082.3 (0.2)	75Se (286.6)
1050.3 (2.6)	103Ru (174.0)	1064.8 (<0.1)	73Ge (326.0)	1082.3 (12.2)	187W (5261.8)
1050.8 (0.2)	98Mo (787.4)	1064.8 (7.0)	87Kr (1475.9)	1082.3 (0.3)	158Gd (181.9)
1050.9 (1.4)	145Nd (852.8)	1065.0 (2.8)	147Nd (314.7)	1082.4 (<0.1)	156Gd (89.0)
1051.0 (0.8)	80Br (37.1)	1065.1 (0.5)	61Ni (7819.6)	1082.4	179Hf
1051.1 (0.1)	144Nd (696.5)	1065.2 (19.3)	156Gd (89.0)	1083.1 (0.5)	235U (4155.1)
1051.2 (0.8)	114In (311.7)	1066.0 (3.1)	177Lu (150.4)	1083.4 (0.2)	77Se (238.9)
1051.5 (0.5)	156Gd (89.0)	1066.9	179Hf	1083.4 (3.4)	147Nd (314.7)
1051.7 (0.4)	156Gd (89.0)	1067.3 (7.7)	124Sb (89.0)	1083.7 (1.7)	140La (5097.9)
1051.7 (0.1)	77Se (238.9)	1067.4 (11.2)	187W (5261.8)	1083.8 (0.3)	150Sm (334.0)
1051.8 (0.4)	233Th (3473.0)	1067.6 (0.5)	62Ni (1172.8)	1083.9	124Sb
1051.9	124Sb	1068.0 (0.5)	1900s (186.7)	1083.9 (0.2)	143Nd (742.1)
1052.0 (1.3)	205Pb (6731.5)	1068.1 (0.2)	168Er (6228.8)	1084.6 (0.1)	233Th (3473.0)
1052.5 (0.8)	156Gd (89.0)	1068.6	124Sb	1085.2 (0.3)	1900s (186.7)
1052.5 (0.5)	177Lu (150.4)	1068.7 (<0.1)	158Gd (181.9)	1085.2 (2.7)	187W (5261.8)
1052.6 (1.8)	141Ce (662.0)	1069.3 (0.7)	114In (311.7)	1085.7 (0.4)	80Br (37.1)
1052.6 (37.2)	169Er (429.9)	1069.5 (5.5)	177Yb (151.6)	1085.8 (1.4)	235U (4155.1)
1052.6 (10.2)	66Cu (185.9)	1069.6	169Yb	1086.2 (0.2)	156Gd (89.0)
1052.7 (0.3)	96Mo (778.3)	1069.8 (<0.1)	169Er (429.9)	1086.4	169Yb
1053.1 (0.6)	98Mo (787.4)	1070.0 (<0.1)	200Hg (367.9)	1086.6 (0.9)	177Lu (150.4)
1053.1 (0.2)	146Nd (7110.8)	1070.1 (0.4)	143Nd (742.1)	1086.7 (0.2)	55Cr (6246.4)
1053.2 (0.6)	116In (273.0)	1070.6	172Yb	1086.8	124Sb
1053.3 (0.4)	158Gd (181.9)	1070.7 (0.7)	177Lu (150.4)	1087.2	81Se
1054.0 (<0.1)	144Nd (696.5)	1071.1 (0.9)	188Os (155.0)	1087.6 (0.4)	808r (37.1)
1054.2 (1.7)	124Te (602.4)	1071.1 (12.8)	187W (5261.8)	1088.0 (1.2)	140La (5097.9)
1054.4 (2.1)	140La (5097.9)	1071.4 (0.3)	158Gd (181.9)	1088.1 (4.0)	177Lu (150.4)
1054.6	179Hf	1071.7 (0.5)	77Se (238.9)	1088.5 (2.0)	145Nd (852.8)
1054.7 (<0.1)	200Hg (367.9)	1072.0 (<0.1)	150Sm (334.0)	1088.5 (0.2)	1900s (186.7)
1054.9 (0.6)	233Th (3473.0)	1072.6 (3.1)	235U (4155.1)	1088.6 (0.3)	84Kr (881.8)
1055.0 (1.0)	204Tl (139.9)	1072.6 (0.4)	158Gd (181.9)	1088.9 (0.3)	158Gd (181.9)
1055.0 (6.2)	101Mo (180.7)	1073.2 (0.3)	61Ni (7819.6)	1090.3 (<0.1)	51V (1609.3)
1055.3 (2.3)	80Br (37.1)	1073.3 (1.1)	156Gd (89.0)	1090.6 (0.3)	158Gd (181.9)
1055.4 (11.0)	87Kr (1475.9)	1073.5 (0.7)	165Dy (108.2)	1090.7 (2.4)	147Nd (314.7)
1055.9 (1.5)	143Nd (742.1)	1073.6 (8.7)	249Cm (1408.3)	1090.7 (5.1)	105Ru (143.2)
1056.3 (0.2)	158Gd (181.9)	1073.8 (1.2)	233Th (3473.0)	1090.9 (1.5)	235U (4155.1)
1056.4 (0.2)	188Os (155.0)	1073.9 (0.2)	144Nd (696.5)	1091.0 (0.6)	68Zn (1077.4)
1056.6 (1.3)	177Lu (150.4)	1074.1 (0.3)	96Mo (778.3)	1091.1 (1.2)	48Ti (983.7)
1056.6 (0.6)	151Nd (4487.8)	1074.1 (<0.1)	200Hg (367.9)	1091.1 (<0.1)	233Th (3473.0)
1056.7	124Sb	1074.1 (0.2)	158Gd (181.9)	1091.2 (0.8)	77Se (238.9)
1056.9 (0.5)	145Nd (852.8)	1074.2 (0.3)	188Os (155.0)	1091.2 (1.1)	98Mo (787.4)
1057.3 (1.8)	235U (4155.1)	1074.5 (0.7)	80Br (37.1)	1091.3 (10.1)	96Mo (778.3)
1057.5 (7.4)	143Nd (742.1)	1075.0 (6.5)	185W (4573.6)	1091.5 (4.3)	60Co (229.8)
1057.6 (3.9)	46Se (227.8)	1075.5 (0.3)	77Se (238.9)	1091.7 (0.6)	158Gd (181.9)
1057.8 (0.8)	1900s (186.7)	1076.0 (1.0)	139Ba (627.3)	1091.8 (0.3)	156Gd (89.0)
1057.9 (5.9)	187W (5261.8)	1076.0 (0.7)	177Lu (150.4)	1091.8 (2.5)	196Pt (356.1)
1058.0 (0.5)	70Ga (508.4)	1076.2	179Hf	1092.5 (1.2)	62Ni (1172.8)
1058.1 (0.6)	88Sr (1836.1)	1076.2	172Yb	1092.5 (10.0)	162Dy (185.0)
1058.5 (2.4)	167Er (207.8)	1076.3 (<0.1)	144Nd (696.5)	1093.2 (1.3)	98Mo (787.4)
1059.1 (<0.1)	178Hf (213.4)	1077.1 (0.1)	158Gd (181.9)	1093.3 (0.6)	177Lu (150.4)
1059.5 (0.3)	143Nd (742.1)	1077.1 (4.2)	116In (273.0)	1093.4 (0.2)	156Gd (89.0)
1059.6 (0.2)	200Hg (367.9)	1077.4 (100.0)	68Zn (1077.4)	1093.5	124Sb
1059.8 (3.3)	114In (311.7)	1077.6 (1.5)	84Kr (881.8)	1093.5 (1.8)	204Tl (139.9)
1059.8 (<0.1)	156Gd (89.0)	1077.7	124Sb	1093.5 (<0.1)	146Nd (7110.8)
1059.9 (0.4)	165Dy (108.2)	1077.9 (<0.1)	178Hf (213.4)	1093.6	172Yb
1060.1 (1.1)	235U (4155.1)	1078.1	179Hf	1093.9 (0.9)	143Ce (4337.8)
1060.2 (0.3)	158Gd (181.9)	1078.2 (0.7)	235U (4155.1)	1093.9 (5.6)	187W (5261.8)
1060.9 (1.2)	184W (111.2)	1078.3 (4.4)	1850s (6588.0)	1094.3 (0.9)	158Gd (181.9)

Table I. CAPTURE γ 's - energy sorted (cont.)

By keV (% γ)	Nucleus (Strongest γ)	By keV (% γ)	Nucleus (Strongest γ)	By keV (% γ)	Nucleus (Strongest γ)
1094.5 (<0.1)	169Er (429.9)	1107.3 (5.2)	58Fe (810.5)	1123.6 (8.3)	46Sc (227.8)
1095.6 (1.9)	235U (4155.1)	1107.4 (5.4)	65Ni (6034.0)	1124.0 (1.6)	51Cr (749.0)
1095.8 (38.1)	71Ge (499.8)	1107.4 (6.8)	147Nd (314.7)	1124.4 (0.7)	235U (4155.1)
1095.9	179Hf (89.0)	1107.5 (0.7)	168Er (6228.8)	1124.5 (2.6)	84Kr (881.8)
1096.4 (1.5)	188Os (155.0)	1107.6 (24.6)	158Gd (181.9)	1124.8 (0.2)	177Lu (150.4)
1096.6 (0.3)	144Nd (696.5)	1107.9 (13.4)	142Pr (176.9)	1124.9 (0.3)	77Se (238.9)
1096.7 (0.4)	96Mo (778.3)	1107.9 (0.9)	80Br (37.1)	1125.1 (0.3)	146Nd (7110.8)
1096.9 (1.6)	116Sn (1293.5)	1108.0 (1.3)	162Dy (185.0)	1125.2 (0.7)	202Hg (439.5)
1097.0 (9.8)	158Gd (181.9)	1108.0 (<0.1)	177Lu (150.4)	1125.5 (4.3)	140La (5097.9)
1097.2 (7.0)	52V (125.1)	1108.2 (2.5)	158Gd (181.9)	1125.7 (0.2)	190Os (186.7)
1097.2 (<0.1)	156Gd (89.0)	1109.0 (2.8)	148Sm (550.0)	1125.7 (0.4)	233Th (3473.0)
1097.2 (0.4)	233Th (3473.0)	1109.1 (0.2)	96Mo (778.3)	1125.8 (8.7)	162Dy (185.0)
1097.4 (0.6)	58Fe (810.5)	1109.4 (0.3)	233Th (3473.0)	1126.0 (0.7)	158Gd (181.9)
1097.8 (3.9)	140La (5097.9)	1109.6 (<0.1)	156Gd (89.0)	1126.1 (6.5)	68Zn (1077.4)
1097.8 (1.7)	202Hg (439.5)	1109.7 (1.2)	158Gd (181.9)	1126.2 (1.3)	184W (111.2)
1097.9 (1.0)	145Nd (852.8)	1109.9 (0.9)	184W (111.2)	1126.3 (0.3)	96Mo (778.3)
1098.0 (6.5)	185W (4573.6)	1110.0 (0.4)	165Dy (108.2)	1126.4 (<0.1)	178Hf (213.4)
1098.3 (2.1)	184W (111.2)	1110.0 (6.5)	185W (4573.6)	1126.4 (44.6)	185W (4573.6)
1098.6 (1.1)	177Lu (150.4)	1110.0 (2.4)	204Tl (139.9)	1127.4 (11.3)	249Cm (1408.3)
1099.0 (<0.1)	71Ge (499.8)	1110.5 (0.8)	151Nd (4487.8)	1127.8 (4.8)	106Pd (513.0)
1099.0 (15.9)	171Yb (6614.7)	1110.6 (4.0)	143Nd (742.1)	1127.9 (0.1)	75Se (286.6)
1099.0 (1.1)	235U (4155.1)	1110.8 (1.5)	98Mo (787.4)	1128.0 (0.8)	77Se (238.9)
1099.1 (4.9)	61Ni (7819.6)	1111.3 (0.9)	167Er (207.8)	1128.2	124Sb
1099.7 (0.2)	143Nd (742.1)	1111.4 (0.2)	77Se (238.9)	1128.7 (9.0)	62Ni (1172.8)
1099.9 (<0.1)	156Gd (89.0)	1111.4 (0.7)	235U (4155.1)	1128.8 (7.2)	174Yb (176.6)
1100.0	179Hf (89.0)	1111.7	179Hf (89.0)	1128.9 (0.2)	233Th (3473.0)
1100.1 (<0.1)	236U (642.2)	1111.8 (0.3)	158Gd (181.9)	1129.2 (0.9)	158Gd (181.9)
1100.2	94Nb (6614.7)	1111.9	124Sb	1129.2 (14.5)	171Yb (6614.7)
1100.2 (<0.1)	54Cr (8884.1)	1112.0 (<0.1)	187Os (427.1)	1129.4 (2.9)	156Gd (89.0)
1100.3 (0.4)	158Gd (181.9)	1112.6 (0.1)	92Zr (934.5)	1129.5 (2.8)	193Os (5276.0)
1100.3 (<0.1)	200Hg (367.9)	1113.3 (0.2)	68Zn (1077.4)	1129.7	94Nb
1100.9 (1.0)	233Th (3473.0)	1113.4 (0.3)	177Lu (150.4)	1130.1 (17.4)	162Dy (185.0)
1101.1 (1.1)	145Nd (852.8)	1114.2 (0.8)	143Nd (742.1)	1130.2 (1.5)	143Ce (4337.8)
1101.1 (<0.1)	146Nd (7110.8)	1114.7 (2.3)	190Os (186.7)	1130.6 (2.5)	147Nd (314.7)
1101.3 (12.9)	74Ge (595.7)	1114.9 (<0.1)	156Gd (89.0)	1130.7 (1.0)	158Gd (181.9)
1101.4 (5.9)	187W (5261.8)	1115.5	175Yb	1130.8	124Sb
1101.7 (0.2)	75Se (286.6)	1115.6 (0.7)	235U (4155.1)	1130.9 (0.2)	177Lu (150.4)
1101.8 (4.7)	140La (5097.9)	1116.0 (13.6)	171Yb (6614.7)	1131.1 (6.2)	142Pr (176.9)
1101.9 (7.2)	142Pr (176.9)	1116.0 (<0.1)	200Hg (367.9)	1131.2 (0.5)	190Os (186.7)
1102.2 (0.2)	156Gd (89.0)	1116.1	172Yb	1131.3	169Yb
1102.3 (<0.1)	187Os (427.1)	1116.5 (6.2)	158Gd (181.9)	1131.7 (4.7)	74Ge (595.7)
1102.7 (2.7)	60Co (229.8)	1117.1 (0.5)	156Gd (89.0)	1131.7 (0.3)	144Nd (696.5)
1102.9 (<0.1)	178Hf (213.4)	1117.1 (0.5)	233Th (3473.0)	1131.8 (4.4)	105Ru (143.2)
1102.9 (0.3)	235U (4155.1)	1117.2	124Sb	1132.1 (<0.1)	156Gd (89.0)
1103.1 (1.3)	190Os (186.7)	1117.4 (1.4)	77Se (238.9)	1132.1 (7.6)	92Zr (934.5)
1103.4 (0.4)	92Zr (934.5)	1117.4 (0.2)	143Ce (4337.8)	1132.3 (0.9)	188Os (155.0)
1103.5 (0.2)	68Zn (1077.4)	1117.5 (5.9)	140La (5097.9)	1132.4 (0.9)	184W (111.2)
1103.6	179Hf (89.0)	1117.6	172Yb	1133.4 (0.4)	233Th (3473.0)
1104.0 (6.5)	185W (4573.6)	1117.7 (1.8)	190Os (186.7)	1133.5	124Sb
1104.1 (3.2)	177Yb (151.6)	1117.7 (0.5)	235U (4155.1)	1133.6 (0.3)	177Lu (150.4)
1104.7 (0.1)	77Se (238.9)	1117.8 (<0.1)	169Er (429.9)	1133.6 (0.5)	61Ni (7819.6)
1104.8 (0.6)	235U (4155.1)	1119.2 (17.0)	158Gd (181.9)	1133.7 (3.4)	140La (5097.9)
1104.9 (3.5)	140La (5097.9)	1119.3 (4.5)	147Nd (314.7)	1133.8	172Yb
1105.0 (2.0)	139Ba (627.3)	1119.5 (0.9)	116Sn (1293.5)	1134.3 (<0.1)	114Cd (1660.3)
1105.0 (0.2)	168Er (6228.8)	1119.8	172Yb	1134.4 (2.4)	46Sc (227.8)
1105.3 (24.7)	86Rb (557.0)	1119.8 (2.8)	156Gd (89.0)	1134.6 (0.2)	158Gd (181.9)
1105.5	169Yb (5261.8)	1120.0 (32.1)	50Ti (1555.0)	1134.7 (6.7)	187W (5261.8)
1105.5 (0.3)	233Th (3473.0)	1120.0 (<0.1)	177Lu (150.4)	1135.0 (6.0)	70Ga (508.4)
1105.6 (<0.1)	242Pu (5476.9)	1120.7 (3.9)	205Pb (6731.5)	1135.0 (1.3)	204Tl (139.9)
1105.6 (0.4)	158Gd (181.9)	1121.0	179Hf (89.0)	1135.0 (14.4)	249Cm (1408.3)
1105.8 (6.6)	74Ge (595.7)	1121.0 (2.8)	204Tl (139.9)	1135.3 (2.6)	105Ru (143.2)
1105.8	124Sb	1121.2 (1.0)	49Ti (1381.5)	1135.9 (0.4)	202Hg (439.5)
1105.9 (0.5)	145Nd (852.8)	1121.4 (6.9)	184W (111.2)	1136.0 (2.1)	143Ce (4337.8)
1106.0 (0.6)	156Gd (89.0)	1121.4 (0.2)	200Hg (367.9)	1136.0 (0.2)	152Eu (89.8)
1106.3 (1.5)	143Ce (4337.8)	1121.5 (0.3)	177Lu (150.4)	1136.1 (0.4)	158Gd (181.9)
1106.4 (1.5)	96Mo (778.3)	1122.0 (<0.1)	202Hg (439.5)	1137.0 (<0.1)	146Nd (7110.8)
1106.5 (0.2)	51Cr (749.0)	1122.5 (0.9)	147Nd (314.7)	1137.2 (<0.1)	156Gd (89.0)
1106.5 (0.1)	144Nd (696.5)	1122.6 (22.2)	185W (4573.6)	1137.2 (0.1)	168Er (6228.8)
1106.6 (5.9)	187W (5261.8)	1122.7 (0.5)	150Sm (334.0)	1137.6 (<0.1)	200Hg (367.9)
1106.8 (0.5)	143Nd (742.1)	1123.1 (0.4)	143Ce (4337.8)	1138.0 (1.8)	132Xe (667.5)

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E γ keV ($\% \gamma$)	Nucleus (Strongest γ)
1138.1 (7.2)	142Pr (176.9)	1153.3 (10.1)	185W (4573.6)	1167.2	179Hf
1138.1 (2.1)	144Nd (696.5)	1153.6 (1.4)	140La (5097.9)	1167.2 (0.2)	146Nd (7110.8)
1138.5 (<0.1)	96Mo (778.3)	1153.7 (2.1)	147Nd (314.7)	1167.4 (1.1)	168Er (6228.8)
1138.8 (0.5)	177Lu (150.4)	1154.1 (27.7)	156Gd (89.0)	1167.4 (<0.1)	178Hf (213.4)
1139.4 (31.7)	71Ge (499.8)	1154.1 (8.8)	143Ce (4337.8)	1167.7 (0.8)	235U (4155.1)
1139.4 (8.5)	187W (5261.8)	1154.3 (0.3)	233Th (3473.0)	1168.2 (0.6)	63Ni (6838.2)
1139.5 (4.1)	64Cu (7916.0)	1154.4 (1.3)	190Os (186.7)	1169.0 (0.4)	156Gd (89.0)
1139.5 (0.2)	156Gd (89.0)	1155.0 (3.8)	204Tl (139.9)	1169.2 (6.1)	45Ca (174.3)
1139.6 (0.6)	158Gd (181.9)	1155.0	172Yb	1169.5 (<0.1)	146Nd (7110.8)
1139.8 (0.5)	77Se (238.9)	1155.4 (0.3)	96Mo (778.3)	1170.1 (<0.1)	190Os (186.7)
1139.9 (6.7)	70Ga (508.4)	1155.8 (0.2)	98Mo (787.4)	1170.3 (4.9)	187W (5261.8)
1139.9 (0.1)	146Nd (7110.8)	1155.9 (0.3)	80Br (37.1)	1170.6 (0.3)	235U (4155.1)
1140.0 (3.7)	56Mn (26.6)	1156.0 (<0.1)	177Lu (150.4)	1170.8 (3.2)	150Sm (334.0)
1140.3 (1.8)	171Er (197.9)	1156.8 (0.4)	158Gd (181.9)	1170.8 (0.9)	177Lu (150.4)
1140.3 (0.9)	177Lu (150.4)	1156.8 (<0.1)	178Hf (213.4)	1171.0 (1.6)	70Ga (508.4)
1140.7 (0.2)	202Hg (439.5)	1157.5 (2.3)	140La (5097.9)	1171.3 (0.4)	233Th (3473.0)
1140.8 (0.4)	98Mo (787.4)	1157.7 (9.3)	142Pr (176.9)	1171.3 (0.7)	68Zn (1077.4)
1141.0 (1.5)	162Dy (185.0)	1157.7 (0.9)	235U (4155.1)	1172.1 (2.0)	103Ru (174.0)
1141.3	179Hf	1157.9 (0.5)	80Br (37.1)	1172.3 (2.0)	143Ce (4337.8)
1141.4 (7.9)	158Gd (181.9)	1158.0 (0.3)	233Th (3473.0)	1172.4 (0.5)	158Gd (181.9)
1141.5 (1.5)	145Nd (852.8)	1158.3 (<0.1)	200Hg (367.9)	1172.7 (1.8)	77Se (238.9)
1141.8 (0.3)	190Os (186.7)	1158.4 (24.2)	185W (4573.6)	1172.8 (3.8)	60Co (229.8)
1141.9 (8.2)	171Yb (6614.7)	1158.5 (0.2)	78Se (613.8)	1172.8 (100.0)	62Ni (1172.8)
1142.0 (5.7)	163Dy (351.1)	1159.0 (2.7)	147Nd (314.7)	1172.8 (<0.1)	200Hg (367.9)
1142.2 (6.1)	235U (4155.1)	1159.0 (16.2)	156Gd (89.0)	1173.0 (2.2)	235U (4155.1)
1142.3 (0.9)	188Os (155.0)	1159.2 (0.5)	158Gd (181.9)	1173.2	172Yb
1142.7 (1.0)	140La (5097.9)	1159.2 (0.2)	68Zn (1077.4)	1173.5 (0.1)	202Hg (439.5)
1143.0	172Yb	1159.3 (0.2)	168Er (6228.8)	1173.6 (0.4)	114Cd (1660.3)
1143.4 (1.1)	80Br (37.1)	1159.5 (2.5)	105Ru (143.2)	1173.7 (20.5)	185W (4573.6)
1144.5 (4.0)	75Se (286.6)	1160.0 (3.3)	64Cu (7916.0)	1173.9 (<0.1)	168Er (6228.8)
1144.8 (<0.1)	178Hf (213.4)	1160.2 (0.2)	114Cd (1660.3)	1174.1 (8.7)	51V (1609.3)
1144.9 (3.3)	78Se (613.8)	1160.7 (0.3)	78Se (613.8)	1174.2 (4.7)	156Gd (89.0)
1145.0 (0.8)	235U (4155.1)	1161.1 (4.4)	145Nd (852.8)	1174.5 (2.1)	188Os (155.0)
1145.2 (1.2)	158Gd (181.9)	1161.2 (0.3)	158Gd (181.9)	1174.6 (<0.1)	178Hf (213.4)
1145.5 (0.6)	233Th (3473.0)	1161.4 (1.9)	77Se (238.9)	1174.6 (1.7)	190Os (186.7)
1145.8 (0.4)	143Nd (742.1)	1161.7 (0.2)	177Lu (150.4)	1174.7 (0.5)	80Br (37.1)
1146.1 (1.5)	143Ce (4337.8)	1161.8 (0.4)	235U (4155.1)	1174.8 (1.9)	103Ru (174.0)
1146.2 (0.3)	177Lu (150.4)	1162.0 (2.8)	56Fe (287.0)	1174.8 (0.2)	158Gd (181.9)
1146.6 (2.9)	141Ce (682.0)	1162.0	81Se	1175.4 (2.1)	171Er (197.9)
1146.6 (17.5)	145Nd (852.8)	1162.7 (0.1)	92Zr (934.5)	1175.6 (<0.1)	178Hf (213.4)
1146.7 (4.5)	167Er (207.8)	1163.0 (10.3)	142Pr (176.9)	1175.7 (0.2)	152Eu (89.8)
1146.8 (0.7)	158Gd (181.9)	1163.1 (1.9)	140La (5097.9)	1175.8 (10.8)	249Cm (1408.3)
1146.9 (0.6)	168Er (6228.8)	1163.1	169Yb	1176.3 (0.3)	177Lu (150.4)
1147.2 (1.9)	200Hg (367.9)	1163.3 (7.7)	62Ni (1172.8)	1176.5 (0.6)	233Th (3473.0)
1147.3 (<0.1)	190Os (186.7)	1163.3 (3.9)	77Se (238.9)	1176.9 (2.6)	140La (5097.9)
1147.3 (4.5)	138Ba (1435.6)	1163.5 (0.2)	200Hg (367.9)	1177.0 (0.7)	145Nd (852.8)
1147.5 (<0.1)	68Zn (1077.4)	1163.8 (0.3)	190Os (186.7)	1177.0 (0.7)	235U (4155.1)
1147.7 (0.7)	188Os (155.0)	1164.0 (1.9)	204Tl (139.9)	1177.7 (1.9)	174Yb (176.6)
1148.1 (1.4)	80Br (37.1)	1164.1 (0.1)	78Se (613.8)	1177.8 (0.5)	158Gd (181.9)
1149.4 (5.6)	51Cr (749.0)	1164.2 (0.6)	233Th (3473.0)	1177.8 (5.3)	86Rb (557.0)
1149.7 (0.1)	158Gd (181.9)	1164.3 (0.1)	68Zn (1077.4)	1177.9 (5.9)	142Pr (176.9)
1149.7 (5.9)	188Os (155.0)	1164.4 (3.7)	147Nd (314.7)	1178.1 (1.0)	150Sm (334.0)
1149.8 (1.5)	140La (5097.9)	1164.4 (0.3)	80Br (37.1)	1178.1 (0.4)	98Mo (787.4)
1149.8 (<0.1)	146Nd (7110.8)	1164.5 (0.8)	96Mo (778.3)	1178.7 (0.5)	177Lu (150.4)
1149.9 (0.3)	235U (4155.1)	1164.6 (0.5)	58Fe (810.5)	1179.1 (0.4)	77Se (238.9)
1150.2 (0.6)	177Lu (150.4)	1164.6 (0.2)	188Os (155.0)	1179.8 (0.1)	75Se (286.6)
1150.3 (0.3)	77Se (238.9)	1164.8 (0.2)	144Nd (696.5)	1180.0 (17.0)	69Zn (1008.0)
1150.4 (<0.1)	190Os (186.7)	1164.8 (1.7)	235U (4155.1)	1180.3 (<0.1)	68Zn (1077.4)
1150.4 (3.3)	147Nd (314.7)	1165.0 (0.7)	145Nd (852.8)	1180.3 (3.2)	158Gd (181.9)
1150.5 (0.3)	151Nd (4487.8)	1165.1 (52.3)	185W (4573.6)	1180.4 (8.5)	156Gd (89.0)
1150.7 (1.1)	74Ge (595.7)	1165.2 (1.2)	143Ce (4337.8)	1180.4 (<0.1)	200Hg (367.9)
1150.7 (23.7)	142Pr (176.9)	1165.2 (<0.1)	146Nd (7110.8)	1180.8 (0.5)	143Nd (742.1)
1150.8 (0.3)	88Sr (1836.1)	1165.8 (5.9)	46Sc (227.8)	1181.5 (0.8)	145Nd (852.8)
1150.9	124Sb	1166.3 (1.4)	150Sm (334.0)	1181.6 (1.8)	140La (5097.9)
1151.0 (0.2)	143Nd (742.1)	1166.6 (100.0)	51Ti (1166.6)	1181.6 (76.5)	185W (4573.6)
1151.4	169Yb	1166.7 (1.3)	177Lu (150.4)	1181.7 (<0.1)	146Nd (7110.8)
1151.6	179Hf	1166.8 (0.3)	233Th (3473.0)	1181.9 (<0.1)	200Hg (367.9)
1151.7 (0.3)	233Th (3473.0)	1166.8 (0.7)	158Gd (181.9)	1182.1 (0.4)	80Br (37.1)
1152.2 (1.6)	187W (5261.8)	1166.9 (0.4)	202Hg (439.5)	1182.4 (0.3)	202Hg (439.5)
1153.2 (0.4)	235U (4155.1)	1167.0 (<0.1)	200Hg (367.9)	1182.8 (0.1)	144Nd (696.5)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV (% γ)	Nucleus (Strongest γ)	E_{γ} keV (% γ)	Nucleus (Strongest γ)	E_{γ} keV (% γ)	Nucleus (Strongest γ)
1182.9 (0.5)	235U (4155.1)	1197.6	179Hf	1216.4	173Yb
1183.0 (2.4)	149Sm (550.0)	1197.8	169Yb	1217.6 (0.9)	143Ce
1183.0 (0.6)	204Tl (139.9)	1198.0 (<0.1)	156Gd (89.0)	1218.0 (5.5)	69Zn
1183.4 (<0.1)	179Hf (213.4)	1198.0 (<0.1)	179Hf (213.4)	1218.1 (3.9)	142Pr
1183.5 (3.9)	147Nd (314.7)	1198.1 (0.2)	68Zn (107.4)	1218.3 (2.1)	145Nd
1183.6	179Hf	1198.1 (0.4)	150Sm (334.0)	1218.5 (4.6)	88Sr
1183.6 (<0.1)	148Nd (7110.8)	1198.6 (7.3)	108Ru	1218.6 (0.7)	158Gd
1183.6	169Yb	1198.6 (1.9)	140La	1218.7 (2.8)	156Gd
1183.8 (0.2)	177Lu (150.4)	1198.9 (1.6)	83Rb	1219.1 (0.4)	80Br
1184.0 (13.5)	158Gd (181.9)	1200.0 (0.5)	193Os	1219.4 (0.5)	68Zn
1184.2 (0.5)	158Gd (89.0)	1200.1 (5.5)	96Mo (778.3)	1219.5 (<0.1)	190Os
1184.3	173Yb	1200.7 (9.9)	193Os	1219.5 (1.7)	147Nd
1184.3	94Nb	1200.9	169Yb	1219.8 (3.4)	156Gd
1184.5 (0.3)	68Zn (107.4)	1201.0	81Se	1219.9 (<0.1)	148Nd
1184.7 (6.9)	61Ni (7819.6)	1201.5 (0.5)	80Br (37.1)	1220.0 (7.4)	162Dy
1185.1 (1.8)	177Lu (150.4)	1202.1 (1.2)	96Mo (778.3)	1220.3 (2.5)	171Er
1185.1 (0.3)	233Th (3473.0)	1202.4 (3.1)	200Hg	1220.6 (2.1)	235U
1185.5 (2.8)	235U (4155.1)	1202.5 (0.9)	235U	1220.7 (1.3)	177Lu
1185.7 (0.4)	143Ce (4337.8)	1202.6 (1.3)	177Lu (150.4)	1220.8 (6.9)	62Ni
1185.7 (4.1)	147Nd (314.7)	1202.9 (1.8)	116Sn (1293.5)	1221.0 (5.8)	86Rb
1185.9 (3.3)	62Ni (1172.8)	1203.0 (3.5)	70Ga	1221.1	169Yb
1186.0 (23.3)	158Gd (181.9)	1203.0 (0.8)	208Hg	1221.4 (0.5)	143Nd
1186.2 (1.3)	162Dy	1203.1 (<0.1)	156Gd (89.0)	1222.0 (32.7)	75Se
1186.7 (20.5)	249Cm	1203.1 (0.6)	138Ba	1222.1 (<0.1)	144Nd
1186.9 (10.5)	147Nd (314.7)	1203.9 (<0.1)	190Os	1222.4 (1.3)	156Gd
1186.9 (0.1)	68Zn (107.4)	1204.4 (1.6)	145Nd (852.8)	1222.4 (0.5)	93Zr
1187.0 (1.0)	77Se (238.9)	1204.5 (2.2)	71Ge	1222.6 (0.3)	158Gd
1187.0 (0.7)	116Sn (1293.5)	1204.5 (13.3)	74Ge	1223.4 (3.4)	167Er
1187.1 (<0.1)	156Gd (89.0)	1204.7 (0.4)	158Gd (181.9)	1224.1 (0.8)	75Se
1187.1 (20.6)	158Gd (181.9)	1205.4 (25.0)	171Yb (6614.7)	1224.1 (3.0)	143Nd
1187.2 (0.2)	143Nd (742.1)	1205.6 (2.1)	162Dy	1224.1	179Hf
1187.6 (0.4)	96Mo (707.4)	1205.6 (<0.1)	178Hf (213.4)	1224.4 (1.9)	235U
1187.8 (0.1)	179Hf	1205.6 (3.5)	177Lu	1224.4 (0.5)	80Br
1187.8 (0.1)	233Th (3473.0)	1205.8 (0.4)	200Hg	1224.9 (0.2)	177Lu
1188.9 (2.1)	140La (5097.9)	1206.0	72Yb	1225.0 (6.2)	163Dy
1189.0 (<0.1)	58Ni (8999.3)	1206.0 (0.4)	235U (4155.1)	1225.2 (7.3)	140La
1189.0 (1.9)	174Yb	1206.6 (2.9)	94Nb	1225.2 (15.4)	249Cm
1190.2 (0.3)	235U (4155.1)	1207.0 (0.5)	60Co	1225.4 (<0.1)	156Gd
1190.2 (1.2)	96Mo (707.4)	1207.0 (0.9)	179Hf	1225.4 (3.4)	200Hg
1190.4 (<0.1)	179Hf (213.4)	1207.1 (0.3)	158Gd (181.9)	1226.4 (0.4)	158Gd
1190.5 (1.0)	80Br (37.1)	1207.1 (<0.1)	178Hf (213.4)	1226.6 (1.5)	235U
1190.6 (0.5)	177Lu (150.4)	1207.5	169Yb	1227.1 (<0.1)	178Hf
1190.8 (<0.1)	148Nd (7110.8)	1207.9 (0.2)	233Th (3473.0)	1228.0 (0.5)	77Se
1191.6 (0.2)	143Nd (742.1)	1208.7 (0.5)	77Se	1228.2 (0.8)	74Ge
1192.0	94Nb	1208.8 (5.2)	147Nd (314.7)	1228.4 (0.2)	190Os
1192.3 (2.2)	189Os	1208.9 (<0.1)	68Zn (107.4)	1228.6 (1.1)	84Kr
1192.5 (<0.1)	92Zr (934.5)	1209.0 (0.2)	158Gd (181.9)	1228.8 (0.5)	78Se
1192.6 (0.9)	184W	1209.0 (0.5)	156Gd (89.0)	1228.9 (0.4)	180Os
1192.6 (0.4)	80Br (37.1)	1209.2 (0.9)	158Gd	1229.0 (0.4)	158Gd
1192.9	179Hf	1209.4 (0.1)	92Zr (934.5)	1229.1 (1.2)	177Lu
1192.9 (<0.1)	200Hg	1209.7 (4.0)	189Os	1229.5 (0.4)	168Er
1193.3 (0.6)	96Mo	1209.7 (3.0)	114Cd	1229.9 (0.5)	235U
1193.4 (<0.1)	148Nd (7110.8)	1209.8	169Yb	1230.1 (0.4)	77Se
1193.7 (11.3)	249Cm	1210.5 (0.4)	235U (4155.1)	1230.1 (0.1)	92Zr
1194.1 (1.9)	150Sm (334.0)	1210.8	81Se	1230.1 (<0.1)	178Hf
1194.2 (2.5)	235U (4155.1)	1211.0 (1.5)	103Ru (174.0)	1230.2 (15.8)	98Mo
1194.3 (0.7)	77Se (238.9)	1211.4	210Bi	1230.3 (0.1)	68Zn
1194.7 (0.5)	177Lu (150.4)	1212.2 (0.2)	233Th (3473.0)	1230.3 (5.2)	147Nd
1195.3 (0.3)	158Gd (181.9)	1212.6 (7.7)	66Cu	1230.7 (2.2)	156Gd
1195.6 (9.0)	162Dy (185.0)	1212.7 (0.2)	68Zn (107.4)	1230.8 (<0.1)	177Lu
1195.7 (30.1)	185W (4573.6)	1212.7 (7.5)	90Y	1231.2 (6.0)	142Pr
1195.8 (3.0)	190Os	1213.0 (2.6)	145Nd (852.8)	1231.4 (1.3)	177Lu
1196.5 (0.6)	233Th (3473.0)	1213.0 (0.6)	235U	1231.6 (0.4)	179Hf
1196.6 (0.5)	169Er (6228.8)	1213.2 (44.0)	84Kr	1232.2 (1.6)	53Cr
1196.9 (1.0)	177Lu (150.4)	1214.7 (0.4)	190Os	1232.6	169Yb
1197.0 (6.4)	86Cu (185.9)	1215.0 (9.7)	174Yb (742.1)	1232.7	81Se
1197.1 (0.4)	158Gd (181.9)	1215.2 (<0.1)	143Nd (742.1)	1233.1 (5.1)	140La
1197.2 (1.1)	53Cr	1215.4 (0.5)	158Gd (181.9)	1233.1 (<0.1)	156Gd
1197.3	80Br (37.1)	1215.5 (0.8)	177Lu (150.4)	1233.1 (3.7)	235U
1197.5 (1.1)	235U (4155.1)	1215.6 (6.2)	60Co (229.8)	1233.7 (0.7)	158Gd

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV (χ l γ)	Nucleus (Strongest γ)	E γ keV (χ l γ)	Nucleus (Strongest γ)	E γ keV (χ l γ)	Nucleus (Strongest γ)
1233.7 (1.1)	177Lu (150.4)	1250.9 (0.7)	57Fe (7631.6)	1271.5 (0.2)	168Er (6228.8)
1234.3 (0.1)	68Zn (1077.4)	1251.9 (2.1)	118Sn (1293.5)	1271.5 (3.7)	187W (5261.8)
1234.9 (6.4)	136Ba (818.6)	1252.0 (14.5)	69Zn (1008.0)	1271.7 (<0.1)	156Gd (89.0)
1235.0 (3.5)	171Er (197.9)	1252.0 (0.6)	177Lu (150.4)	1272.3 (0.4)	77Se (238.9)
1235.0 (3.8)	204Tl (139.9)	1252.3 (11.3)	249Cm (1408.3)	1272.3 (0.8)	235U (4155.1)
1235.5 (3.9)	147Nd (314.7)	1252.4 (1.5)	235U (4155.1)	1272.9 (4.5)	52V (125.1)
1236.1 (0.6)	158Gd (181.9)	1253.3 (6.4)	162Dy (185.0)	1273.0 (21.3)	161Gd (5280.0)
1236.3 (0.6)	190Os (186.7)	1253.4 (0.3)	80Br (37.1)	1273.0 (4.7)	167Er (207.8)
1237.0 (1.1)	177Lu (150.4)	1253.7 (0.3)	143Nd (742.1)	1273.4 (2.8)	200Hg (367.9)
1237.0 (0.2)	63Ni (6838.2)	1253.9 (2.7)	140La (5097.9)	1273.5 (4.8)	142Pr (176.9)
1237.0 (<0.1)	200Hg (367.9)	1254.1 (1.9)	200Hg (367.9)	1273.6 (0.3)	80Br (37.1)
1237.5 (3.0)	158Gd (181.9)	1254.6 (3.8)	177Yb (151.6)	1274.0 (0.3)	141Ce (662.0)
1237.6 (3.8)	60Co (229.8)	1254.6 (0.3)	98Mo (787.4)	1274.4 (0.6)	177Lu (150.4)
1237.6 (0.4)	77Se (238.9)	1254.7 (1.8)	190Os (186.7)	1274.8 (<0.1)	68Zn (1077.4)
1237.6	179Hf	1255.1 (<0.1)	156Gd (89.0)	1274.9 (0.3)	158Gd (181.9)
1237.6 (0.2)	80Br (37.1)	1255.2 (<0.1)	178Hf (213.4)	1275.1 (15.7)	184W (111.2)
1238.1 (0.7)	96Mo (778.3)	1255.7 (6.1)	52V (125.1)	1276.4 (<0.1)	178Hf (213.4)
1238.1 (0.5)	235U (4155.1)	1255.7 (1.1)	173Yb (399.4)	1276.9 (1.5)	68Zn (1077.4)
1238.2 (0.1)	143Nd (742.1)	1256.0 (1.5)	158Gd (181.9)	1276.9 (24.6)	162Dy (185.0)
1238.3 (0.5)	156Gd (89.0)	1256.0 (<0.1)	171Yb (6614.7)	1277.3 (1.8)	168Er (6228.8)
1238.7 (0.3)	58Fe (810.5)	1256.0 (0.5)	235U (4155.1)	1277.5 (1.2)	156Gd (89.0)
1238.8 (0.9)	202Hg (439.5)	1256.3 (1.1)	177Lu (150.4)	1277.6 (1.1)	174Yb (176.6)
1239.1 (0.2)	143Nd (742.1)	1256.3 (0.3)	150Sm (334.0)	1278.3 (0.5)	143Ce (4337.8)
1239.4 (0.6)	188Os (155.0)	1256.6 (1.1)	184W (111.2)	1278.9 (3.2)	158Gd (181.9)
1239.8 (7.7)	249Cm (1408.3)	1257.1	81Se	1278.9 (14.4)	249Cm (1408.3)
1240.0 (1.5)	55Fe (9297.8)	1258.2 (0.6)	156Gd (89.0)	1279.0 (<0.1)	144Nd (696.5)
1240.1 (4.6)	78Se (613.8)	1259.4 (1.4)	143Ce (4337.8)	1279.0 (0.4)	177Lu (150.4)
1240.5 (35.0)	171Yb (6614.7)	1259.5 (0.1)	77Se (238.9)	1279.2 (<0.1)	156Gd (89.0)
1240.9 (0.2)	96Mo (778.3)	1259.8 (0.3)	98Mo (787.4)	1279.5	179Hf
1241.2 (0.3)	158Gd (181.9)	1259.8 (5.8)	158Gd (181.9)	1279.8 (0.8)	235U (4155.1)
1241.2 (0.2)	98Mo (787.4)	1259.9 (<0.1)	168Er (6228.8)	1280.5 (1.0)	64Cu (7916.0)
1241.4 (<0.1)	54Cr (8884.1)	1260.2 (0.9)	58Fe (810.5)	1280.5 (3.0)	167Er (207.8)
1241.6 (0.5)	177Lu (150.4)	1260.6 (22.5)	45Ca (174.3)	1281.1 (0.5)	177Lu (150.4)
1241.8 (0.2)	80Br (37.1)	1261.0 (11.3)	68Zn (1077.4)	1283.0 (1.3)	114Cd (1660.3)
1241.8 (59.5)	174Yb (176.6)	1261.0 (4.4)	136Ba (818.6)	1283.2 (0.1)	55Cr (6246.4)
1242.2 (2.4)	147Nd (314.7)	1261.4 (8.8)	57Fe (7631.6)	1283.2 (0.6)	177Lu (150.4)
1242.5 (3.0)	64Cu (7916.0)	1261.5 (0.3)	78Se (613.8)	1283.5 (47.2)	249Cm (1408.3)
1242.5 (<0.1)	156Gd (89.0)	1261.5 (0.1)	144Nd (696.5)	1283.6 (2.6)	235U (4155.1)
1243.2 (2.5)	103Ru (174.0)	1261.7 (10.8)	66Cu (185.9)	1283.8 (0.4)	143Nd (742.1)
1243.5	81Se	1262.1 (2.1)	60Co (229.8)	1283.9 (0.5)	158Gd (181.9)
1244.0 (3.5)	70Ga (508.4)	1262.6 (3.9)	143Nd (742.1)	1283.9 (<0.1)	200Hg (367.9)
1244.0 (<0.1)	146Nd (7110.8)	1263.0 (5.5)	200Hg (367.9)	1284.0 (4.5)	140La (5097.9)
1244.5 (4.8)	145Nd (852.8)	1263.1	169Yb	1284.4 (0.7)	77Se (238.9)
1244.6 (0.5)	158Gd (181.9)	1263.3 (2.6)	87Sr (8039.8)	1284.5 (<0.1)	156Gd (89.0)
1244.7 (0.5)	74Ge (595.7)	1263.4 (0.3)	77Se (238.9)	1284.8 (15.4)	249Cm (1408.3)
1244.9 (0.3)	75Se (286.6)	1263.4 (0.6)	177Lu (150.4)	1285.0 (1.3)	145Nd (852.8)
1245.1	179Hf	1263.5 (9.0)	158Gd (181.9)	1285.2 (0.3)	190Os (186.7)
1245.4 (1.5)	235U (4155.1)	1263.7 (0.3)	78Se (613.8)	1285.4 (2.2)	98Mo (787.4)
1245.7 (<0.1)	156Gd (89.0)	1264.0 (<0.1)	171Yb (6614.7)	1285.7 (0.1)	68Zn (1077.4)
1246.0 (<0.1)	196Pt (356.1)	1264.5 (1.5)	158Gd (181.9)	1285.9	179Hf
1246.4 (2.4)	235U (4155.1)	1264.5 (0.6)	80Br (37.1)	1286.1 (0.4)	235U (4155.1)
1246.5	169Yb	1265.4 (1.8)	235U (4155.1)	1286.9 (0.8)	77Se (238.9)
1247.3 (0.3)	200Hg (367.9)	1265.7 (2.0)	190Os (186.7)	1287.2 (0.8)	144Nd (696.5)
1247.6 (0.9)	150Sm (334.0)	1265.9 (2.2)	145Nd (852.8)	1287.2 (0.8)	98Mo (787.4)
1248.1 (0.8)	92Zr (934.5)	1266.3 (0.8)	156Gd (89.0)	1288.3 (2.9)	103Ru (174.0)
1248.3 (0.5)	177Lu (150.4)	1266.8 (0.5)	58Fe (810.5)	1288.6	172Yb
1248.5 (3.2)	142Pr (176.9)	1266.9 (0.2)	200Hg (367.9)	1288.9 (2.4)	141Ce (662.0)
1248.8 (3.1)	80Br (37.1)	1267.4 (0.5)	177Lu (150.4)	1289.6 (0.3)	158Gd (181.9)
1248.8 (24.1)	75Se (574.7)	1268.1 (1.3)	145Nd (852.8)	1289.8 (0.5)	235U (4155.1)
1249.1 (0.2)	77Se (238.9)	1268.5 (<0.1)	146Nd (7110.8)	1290.1 (0.5)	177Lu (150.4)
1249.2 (1.6)	190Os (186.7)	1268.9 (0.5)	144Nd (696.5)	1290.4 (0.3)	80Br (37.1)
1249.4 (1.3)	147Nd (314.7)	1269.0 (0.2)	58Fe (810.5)	1291.1 (0.3)	200Hg (367.9)
1249.4 (0.2)	158Gd (181.9)	1269.0 (1.9)	235U (4155.1)	1291.2 (<0.1)	178Hf (213.4)
1249.7 (4.9)	145Nd (852.8)	1269.3 (<0.1)	178Hf (213.4)	1291.8 (0.2)	156Gd (89.0)
1249.9 (0.4)	98Mo (787.4)	1269.5 (19.5)	249Cm (1408.3)	1291.9 (5.0)	140La (5097.9)
1250.1 (48.6)	73Ge (326.0)	1269.7	172Yb	1291.9 (0.2)	156Gd (89.0)
1250.7 (0.3)	58Fe (810.5)	1270.0 (3.1)	46Sc (227.8)	1292.2 (0.2)	146Nd (7110.8)
1250.7 (0.2)	150Sm (334.0)	1270.3 (0.9)	158Gd (181.9)	1292.3 (0.3)	78Se (613.8)
1250.7 (0.7)	156Gd (89.0)	1270.9 (0.4)	177Lu (150.4)	1292.7 (0.6)	58Fe (810.5)
1250.8 (0.2)	144Nd (696.5)	1271.5 (4.2)	145Nd (852.8)	1292.7 (1.0)	145Nd (852.8)

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV ($\chi_{1\gamma}$)	Nucleus (Strongest γ)	E γ keV ($\chi_{1\gamma}$)	Nucleus (Strongest γ)	E γ keV ($\chi_{1\gamma}$)	Nucleus (Strongest γ)
1293.0 (2.6)	204Tl (139.9)	1310.1 (1.0)	168Er (6228.8)	1328.5 (5.9)	64Cu (7916.0)
1293.3 (0.8)	84Kr (881.8)	1311.5 (1.4)	1900s (186.7)	1328.5 (7.6)	187W (5261.8)
1293.4 (12.2)	1910s (5147.1)	1311.9 (35.4)	48Ti (983.7)	1328.8 (0.5)	235U (4155.1)
1293.4 (0.4)	202Hg (439.5)	1312.0 (4.0)	70Ga (508.4)	1329.3 (<0.1)	178Hf (213.4)
1293.5 (100.0)	116Sn (1293.5)	1312.1 (0.8)	158Gd (181.9)	1329.5 (0.7)	80Br (37.1)
1293.6 (4.9)	235U (4155.1)	1312.1 (<0.1)	169Er (429.9)	1329.5 (0.8)	158Gd (181.9)
1293.6 (1.3)	174Yb (176.6)	1313.1 (0.1)	68Zn (1077.4)	1330.4 (28.1)	185W (4573.6)
1293.8	179Hf	1313.3 (<0.1)	156Gd (89.0)	1330.5 (7.0)	140La (5097.9)
1294.5 (3.0)	167Er (207.8)	1313.5 (16.4)	249Cm (1408.3)	1331.2 (0.9)	168Er (6228.8)
1294.5 (0.5)	158Gd (181.9)	1313.7 (3.0)	184W (111.2)	1331.3 (1.0)	158Gd (181.9)
1294.6 (0.1)	200Hg (367.9)	1313.9 (0.3)	1880s (155.0)	1331.4 (1.8)	235U (4155.1)
1295.4 (1.3)	103Ru (174.0)	1314.0 (2.3)	47Ti (159.0)	1331.5 (1.5)	145Nd (852.8)
1295.5 (5.8)	169Er (429.9)	1314.0 (0.2)	143Nd (742.1)	1331.8 (11.3)	142Pr (176.9)
1295.6	169Yb	1314.2 (0.3)	202Hg (439.5)	1331.8	179Hf
1296.0 (0.9)	177Lu (150.4)	1314.3 (0.2)	146Nd (7110.8)	1332.1 (2.6)	1880s (155.0)
1296.7 (0.3)	158Gd (181.9)	1314.6 (0.3)	144Nd (696.5)	1332.2 (10.1)	103Ru (174.0)
1296.7 (2.0)	235U (4155.1)	1314.7 (1.0)	144Nd (852.8)	1332.2 (1.9)	141Ce (662.0)
1296.9 (4.2)	140La (5097.9)	1314.8 (0.5)	158Gd (181.9)	1332.2 (0.3)	156Gd (89.0)
1297.2 (8.4)	77Se (238.9)	1315.0 (1.2)	55Fe (9297.8)	1332.3 (<0.1)	146Nd (7110.8)
1297.8 (2.6)	171Er (197.9)	1315.0 (10.8)	132Xe (667.5)	1332.3 (1.8)	177Lu (150.4)
1298.0 (3.2)	167Er (207.8)	1315.0 (0.4)	1900s (186.7)	1332.4 (1.0)	74Ge (595.7)
1298.3 (4.9)	187W (5261.8)	1316.4 (0.8)	177Lu (150.4)	1332.6 (5.0)	60Co (229.8)
1298.4 (3.6)	103Ru (174.0)	1316.5 (0.2)	77Se (238.9)	1333.5 (<0.1)	178Hf (213.4)
1298.7 (0.2)	55Cr (6246.4)	1317.3 (0.2)	143Nd (742.1)	1333.7 (0.8)	145Nd (852.8)
1298.8 (29.4)	71Ge (499.8)	1317.3 (4.5)	96Mo (778.3)	1333.9 (1.1)	235U (4155.1)
1298.9 (0.6)	80Br (37.1)	1317.4 (3.1)	98Mo (787.4)	1333.9 (0.4)	146Nd (7110.8)
1299.9 (<0.1)	156Gd (89.0)	1318.0 (0.2)	200Hg (367.9)	1334.5 (1.3)	156Gd (89.0)
1300.4 (0.5)	144Nd (696.5)	1318.2 (1.2)	235U (4155.1)	1334.6 (18.5)	249Cm (1408.3)
1300.9 (3.5)	158Gd (181.9)	1318.3 (7.2)	142Pr (176.9)	1334.7	179Hf
1300.9 (0.5)	68Zn (1077.4)	1318.9 (4.3)	174Yb (176.6)	1335.0 (8.7)	46Sc (227.8)
1301.0 (<0.1)	59Ni (8999.3)	1319.0 (0.2)	144Nd (696.5)	1335.7 (0.2)	150Sm (334.0)
1301.0 (0.1)	92Zr (934.5)	1319.6 (1.4)	235U (4155.1)	1336.4 (0.3)	77Se (238.9)
1301.0 (0.1)	96Mo (778.3)	1319.8 (6.6)	184W (111.2)	1336.7 (0.6)	177Lu (150.4)
1301.0 (1.6)	1900s (186.7)	1319.9 (0.6)	80Br (37.1)	1336.7 (1.0)	1880s (155.0)
1301.3 (2.9)	235U (4155.1)	1320.2 (0.1)	156Gd (89.0)	1336.9 (0.4)	80Br (37.1)
1301.5 (1.9)	177Lu (150.4)	1320.5 (0.2)	77Se (238.9)	1337.1 (2.6)	235U (4155.1)
1301.9 (0.6)	77Se (238.9)	1320.5 (0.4)	158Gd (181.9)	1337.2 (<0.1)	156Gd (89.0)
1302.0 (0.9)	1880s (155.0)	1320.5 (1.4)	202Hg (439.5)	1337.4 (0.7)	145Nd (852.8)
1302.2 (0.6)	158Gd (181.9)	1320.9 (0.1)	96Mo (778.3)	1337.4 (0.2)	200Hg (367.9)
1303.0 (<0.1)	156Gd (89.0)	1321.8 (2.0)	105Ru (143.2)	1338.0 (11.3)	161Gd (5280.0)
1303.5 (1.8)	177Yb (151.6)	1322.0 (0.7)	150Sm (334.0)	1338.1 (0.7)	74Ge (595.7)
1304.3 (1.5)	1880s (155.0)	1322.1 (0.4)	62Ni (1172.8)	1338.3 (1.2)	184W (111.2)
1304.6 (1.3)	145Nd (852.8)	1322.3 (1.0)	177Lu (150.4)	1338.8 (1.6)	78Se (613.8)
1304.8 (0.9)	235U (4155.1)	1322.4 (5.9)	64Cu (7916.0)	1340.0 (12.6)	68Zn (1077.4)
1304.9 (17.0)	87Kr (1475.9)	1322.4 (0.3)	200Hg (367.9)	1340.2 (0.2)	55Cr (6246.4)
1305.2 (25.8)	86Rb (557.0)	1322.4 (0.8)	80Br (37.1)	1340.6 (<0.1)	178Hf (213.4)
1305.2 (0.9)	167Er (207.8)	1322.5 (1.7)	58Fe (810.5)	1340.7 (1.1)	144Nd (696.5)
1305.3	179Hf	1322.5 (<0.1)	169Er (429.9)	1341.0 (2.2)	139Ba (627.3)
1305.5 (<0.1)	114Cd (1660.3)	1322.8 (3.1)	1880s (155.0)	1341.2 (2.4)	140La (5097.9)
1305.5 (31.0)	174Yb (176.6)	1323.3 (1.4)	151Nd (4487.8)	1341.5 (3.5)	167Er (207.8)
1305.5 (0.9)	114Cd (1660.3)	1323.4 (9.3)	158Gd (181.9)	1341.5 (0.4)	177Lu (150.4)
1305.7 (0.9)	177Lu (150.4)	1323.7 (1.9)	145Nd (852.8)	1341.7 (0.2)	200Hg (367.9)
1306.0 (6.4)	52V (125.1)	1323.9 (0.3)	98Mo (787.4)	1342.0 (13.3)	249Cm (1408.3)
1306.0 (1.2)	58Fe (810.5)	1323.9 (1.2)	168Er (6228.8)	1342.1	179Hf
1306.4 (2.4)	77Se (238.9)	1324.0 (0.9)	146Nd (7110.8)	1342.4 (0.5)	1900s (186.7)
1306.9 (2.4)	202Hg (439.5)	1324.1 (0.3)	63Ni (6838.2)	1343.6 (0.2)	55Cr (6246.4)
1307.0 (0.3)	156Gd (89.0)	1324.1 (2.5)	124Te (602.4)	1343.8 (2.1)	138Ba (1435.6)
1307.5 (0.7)	158Gd (181.9)	1324.3 (0.2)	144Nd (696.5)	1344.0 (3.4)	148Sm (550.0)
1307.7 (1.8)	1880s (155.0)	1324.3 (0.9)	235U (4155.1)	1344.2	172Yb
1307.9 (0.2)	96Mo (778.3)	1324.8 (<0.1)	156Gd (89.0)	1344.5 (1.2)	235U (4155.1)
1308.0 (9.9)	174Yb (176.6)	1324.8 (0.6)	80Br (37.1)	1344.6 (0.8)	177Lu (150.4)
1308.1 (2.9)	235U (4155.1)	1324.9 (3.1)	150Sm (334.0)	1345.0 (0.4)	150Sm (334.0)
1308.5 (14.1)	78Se (613.8)	1325.0 (2.9)	52V (125.1)	1345.6 (19.8)	185W (4573.6)
1308.6 (4.4)	162Dy (185.0)	1325.5	169Yb	1346.0 (3.6)	65Ni (6034.0)
1308.9 (0.2)	143Nd (742.1)	1326.0	172Yb	1346.0 (0.2)	156Gd (89.0)
1309.0 (1.0)	177Lu (150.4)	1327.1 (0.3)	1900s (186.7)	1346.2 (0.4)	145Nd (852.8)
1309.2 (0.8)	150Sm (334.0)	1327.1 (4.3)	158Gd (181.9)	1346.8 (0.5)	96Mo (778.3)
1309.4 (4.1)	136Ba (818.6)	1327.5 (0.2)	68Zn (1077.4)	1347.0 (0.9)	177Lu (150.4)
1309.9 (0.9)	177Lu (150.4)	1327.6 (1.0)	156Gd (89.0)	1347.1 (0.5)	200Hg (367.9)
1310.0 (<0.1)	178Hf (213.4)	1328.2 (3.1)	142Pr (176.9)	1347.2 (1.0)	143Ce (4337.8)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_γ keV (χ_{17})	Nucleus (Strongest γ)	E_γ keV (χ_{17})	Nucleus (Strongest γ)	E_γ keV (χ_{17})	Nucleus (Strongest γ)
1347.9 (1.3)	158Gd (181.9)	1366.6 (0.3)	75Se (286.6)	1385.0	179Hf
1348.2	172Yb	1366.8 (0.2)	200Hg (367.9)	1385.0 (0.5)	200Hg (367.9)
1348.4 (0.2)	98Mo (787.4)	1367.0 (2.3)	177Lu (150.4)	1385.1 (2.3)	140La (5097.9)
1348.7 (0.8)	106Pd (513.0)	1367.1 (1.3)	235U (4155.1)	1385.3 (0.5)	188Os (155.0)
1349.0 (1.9)	71Ge (499.8)	1367.2	81Se	1386.0 (0.5)	96Mo (778.3)
1349.2 (0.3)	156Gd (89.0)	1367.8 (3.0)	177Yb (151.6)	1386.0 (1.9)	141Ce (662.0)
1349.5 (0.9)	172Yb (150.4)	1368.0 (0.9)	124Te (602.4)	1386.4 (12.6)	184W (111.2)
1349.5 (0.4)	188Os (155.0)	1368.2 (<0.1)	77Se (238.9)	1386.4 (0.5)	145Nd (852.8)
1349.7 (0.7)	235U (4155.1)	1368.2 (0.3)	144Nd (696.5)	1386.9 (1.2)	235U (4155.1)
1350.2 (0.2)	74Ge (595.7)	1368.9 (<0.1)	190Os (186.7)	1387.0 (<0.1)	169Er (429.9)
1350.4 (1.1)	145Nd (852.8)	1369.3 (1.9)	235U (4155.1)	1387.2 (0.6)	68Zn (1077.4)
1350.4 (<0.1)	190Os (186.7)	1369.6 (5.6)	103Ru (174.0)	1387.3	172Yb
1350.4 (1.1)	200Hg (367.9)	1369.7 (0.3)	78Se (613.8)	1387.4 (0.6)	177Lu (150.4)
1350.5 (0.1)	77Se (238.9)	1370.0 (<0.1)	156Gd (89.0)	1387.4 (0.3)	190Os (186.7)
1350.5 (<0.1)	179Hf (213.4)	1370.1 (0.8)	98Mo (787.4)	1387.5 (0.3)	77Se (238.9)
1350.9 (1.3)	168Er (6228.8)	1370.5 (30.5)	171Yb (6614.7)	1387.5 (0.4)	78Se (613.8)
1351.0 (1.4)	150Sm (334.0)	1371.3 (1.8)	158Gd (181.9)	1388.0	179Hf
1351.4	179Hf	1371.3 (0.4)	114Cd (1660.3)	1388.0 (0.4)	98Mo (787.4)
1351.5 (0.3)	80Br (37.1)	1371.4 (1.2)	174Yb (176.6)	1388.1 (15.9)	171Yb (6614.7)
1351.8 (1.3)	168Er (6228.8)	1372.0 (0.8)	235U (4155.1)	1389.4 (0.4)	202Hg (439.5)
1351.9 (0.1)	143Nd (742.1)	1372.3 (0.2)	68Zn (1077.4)	1389.5 (1.7)	151Nd (4487.8)
1352.3 (0.1)	144Nd (696.5)	1372.6	172Yb	1389.6 (10.5)	86Rb (557.0)
1352.9 (0.3)	96Mo (778.3)	1372.9 (2.7)	158Gd (181.9)	1389.6 (0.8)	145Nd (852.8)
1353.0 (<0.1)	190Os (186.7)	1373.0 (0.3)	177Lu (150.4)	1389.8 (0.5)	144Nd (696.5)
1353.4 (0.8)	158Gd (181.9)	1373.1 (4.1)	162Dy (185.0)	1390.5 (0.3)	143Nd (742.1)
1353.4 (2.3)	174Yb (176.6)	1373.3 (0.8)	156Gd (89.0)	1391.2 (2.2)	184W (111.2)
1353.5 (0.2)	51Cr (749.0)	1373.3 (2.0)	167Er (207.8)	1391.3 (2.9)	235U (4155.1)
1353.5 (5.9)	167Er (207.8)	1373.3 (1.2)	184W (111.2)	1391.8	169Yb
1353.6 (<0.1)	68Zn (1077.4)	1373.5 (0.7)	78Se (613.8)	1392.2 (<0.1)	156Gd (89.0)
1354.4 (1.0)	124Te (602.4)	1373.6	169Yb	1392.3 (0.8)	80Br (37.1)
1354.4 (2.0)	235U (4155.1)	1374.1 (14.0)	205Pb (6731.5)	1392.3 (<0.1)	146Nd (7110.8)
1354.5 (0.4)	168Er (6228.8)	1374.5 (1.0)	77Se (238.9)	1392.4 (0.8)	168Er (6228.8)
1354.8 (5.0)	202Hg (439.5)	1374.9	175Hf	1392.6 (0.6)	77Se (238.9)
1355.0 (1.3)	47Ti (159.0)	1375.5 (3.4)	147Nd (314.7)	1392.6 (1.5)	140La (5097.9)
1355.2 (0.5)	177Lu (150.4)	1376.1 (4.4)	145Nd (852.8)	1393.1 (0.8)	158Gd (181.9)
1355.6 (7.0)	66Cu (185.9)	1376.5 (2.6)	144Nd (696.5)	1393.9 (1.1)	235U (4155.1)
1356.6 (5.4)	116Sn (1293.5)	1376.9 (0.5)	177Lu (150.4)	1394.2 (0.7)	98Mo (787.4)
1358.9 (0.2)	143Nd (742.1)	1377.3 (0.4)	146Nd (7110.8)	1395.1 (0.5)	177Lu (150.4)
1356.9 (1.7)	145Nd (852.8)	1377.4 (0.9)	235U (4155.1)	1395.6 (0.6)	145Nd (852.8)
1357.2 (1.0)	144Nd (696.5)	1377.7 (1.1)	190Os (186.7)	1395.8 (0.9)	77Se (238.9)
1357.8 (0.5)	80Br (37.1)	1377.8 (7.0)	147Nd (314.7)	1396.3 (0.7)	96Mo (778.3)
1357.9 (4.4)	235U (4155.1)	1377.9 (1.2)	158Gd (181.9)	1396.9 (0.5)	190Os (186.7)
1358.4 (3.3)	196Pt (356.1)	1378.2 (1.1)	145Nd (852.8)	1397.0 (<0.1)	71Ge (499.8)
1358.7 (15.7)	52V (125.1)	1378.3 (2.1)	77Se (238.9)	1397.2 (1.1)	235U (4155.1)
1358.8 (<0.1)	168Er (6228.8)	1378.5	175Yb	1397.7 (0.3)	68Zn (1077.4)
1359.0 (2.3)	70Ga (508.4)	1378.8 (9.9)	71Ge (499.8)	1398.0	172Yb
1359.3 (7.0)	57Fe (7631.6)	1378.8 (0.8)	143Nd (742.1)	1398.4 (0.5)	96Mo (778.3)
1359.6 (<0.1)	169Er (429.9)	1379.7	179Hf	1398.5 (0.2)	156Gd (89.0)
1359.7 (0.3)	98Mo (787.4)	1379.9 (0.3)	80Br (37.1)	1399.0 (2.1)	139Ba (627.3)
1360.3 (1.4)	190Os (186.7)	1380.1 (0.3)	156Gd (89.0)	1399.2 (2.2)	114Cd (1660.3)
1360.4 (0.2)	96Mo (778.3)	1380.4 (0.8)	150Sm (334.0)	1399.9 (0.2)	55Cr (6246.4)
1360.7	81Se	1380.9 (2.3)	174Yb (176.6)	1399.9 (0.1)	158Gd (181.9)
1360.9 (0.4)	158Gd (181.9)	1381.1 (0.4)	158Gd (181.9)	1399.9 (2.4)	235U (4155.1)
1361.5	172Yb	1381.1 (1.9)	177Lu (150.4)	1400.2 (8.1)	52V (125.1)
1361.9 (2.6)	60Co (229.8)	1381.1	179Hf	1400.6 (3.7)	103Ru (174.0)
1361.9 (<0.1)	156Gd (89.0)	1381.3 (1.9)	77Se (238.9)	1400.7 (1.3)	177Lu (150.4)
1362.0 (0.6)	177Lu (150.4)	1381.5 (100.0)	49Ti (1381.5)	1400.8 (0.3)	144Nd (696.5)
1362.6 (1.9)	64Cu (7916.0)	1381.5 (5.8)	167Er (207.8)	1401.7 (4.9)	56Mn (26.6)
1363.2 (1.5)	200Hg (367.9)	1382.0 (2.7)	78Se (613.8)	1401.7 (0.2)	80Br (37.1)
1363.5 (0.2)	146Nd (7110.8)	1382.0 (<0.1)	146Nd (7110.8)	1402.0 (<0.1)	165Dy (108.2)
1363.7 (1.7)	140La (5097.9)	1382.5 (4.2)	235U (4155.1)	1402.5 (1.4)	145Nd (852.8)
1363.8 (0.1)	143Nd (742.1)	1383.0 (2.2)	88Sr (1836.1)	1402.8 (0.8)	188Os (155.0)
1364.1 (0.6)	235U (4155.1)	1383.6 (1.2)	190Os (186.7)	1402.9	172Yb
1364.1 (0.6)	80Br (37.1)	1383.8 (2.5)	143Nd (742.1)	1402.9 (1.1)	77Se (238.9)
1364.3 (3.3)	114Cd (1660.3)	1384.0 (0.6)	151Nd (4487.8)	1403.1 (<0.1)	179Hf (213.4)
1364.9 (0.3)	77Se (238.9)	1384.0 (4.5)	202Hg (439.5)	1403.6 (2.5)	136Ba (818.6)
1365.2 (13.6)	249Cm (1408.3)	1384.2 (3.0)	77Se (238.9)	1403.7 (0.2)	68Zn (1077.4)
1365.8 (1.2)	151Nd (4487.8)	1384.4 (0.9)	74Ge (595.7)	1404.0 (3.4)	196Pt (356.1)
1366.5 (0.7)	145Nd (852.8)	1384.4 (1.6)	167Er (207.8)	1404.3 (0.2)	96Mo (778.3)
1366.5 (0.5)	156Gd (89.0)	1384.9 (<0.1)	179Hf (213.4)	1404.3 (0.5)	156Gd (89.0)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_γ keV ($\%I_\gamma$)	Nucleus (Strongest γ)	E_γ keV ($\%I_\gamma$)	Nucleus (Strongest γ)	E_γ keV ($\%I_\gamma$)	Nucleus (Strongest γ)
1405.2 (23.2)	92Zr (934.5)	1431.0 (5.2)	184W (111.2)	1448.8 (0.3)	75Se (286.6)
1405.9 (1.3)	158Gd (181.9)	1431.9 (0.7)	88Zn (1077.4)	1449.0 (1.4)	235U (4155.1)
1406.3 (0.2)	98Mo (787.4)	1432.2 (0.3)	200Hg (367.9)	1449.5 (9.3)	142Pr (176.9)
1406.4 (3.0)	140La (5097.9)	1432.3 (7.9)	98Mo (787.4)	1449.8 (0.7)	156Gd (89.0)
1406.7	81Se	1432.5	169Yb	1450.0 (1.3)	151Nd (4487.8)
1407.2 (0.6)	143Nd (742.1)	1432.8 (3.7)	140La (5097.9)	1450.3 (3.2)	145Nd (852.8)
1408.0 (0.3)	144Nd (696.5)	1432.9 (0.3)	156Gd (89.0)	1450.3	172Yb
1408.0 (0.4)	158Gd (181.9)	1432.9 (1.3)	167Er (207.8)	1450.4 (0.3)	144Nd (696.5)
1408.0 (24.6)	185W (4573.6)	1433.1 (<0.1)	177Lu (150.4)	1450.9 (0.7)	235U (4155.1)
1408.0 (2.7)	200Hg (367.9)	1433.5 (<0.1)	168Er (6228.8)	1451.0 (0.6)	177Lu (150.4)
1408.3 (100.0)	249Cm (1408.3)	1433.8 (0.9)	158Gd (181.9)	1451.4 (0.7)	77Se (238.9)
1408.4 (0.6)	77Se (238.9)	1433.9 (<0.1)	179Hf (213.4)	1452.0 (3.4)	69Zn (1008.0)
1408.6 (0.5)	116Sn (1293.5)	1434.0 (0.9)	92Zr (934.5)	1452.0 (24.2)	185W (4573.6)
1408.9 (1.7)	145Nd (852.8)	1434.2 (0.7)	143Ce (4337.8)	1452.1 (5.0)	140La (5097.9)
1409.1 (0.9)	177Lu (150.4)	1434.3 (0.2)	146Nd (7110.8)	1452.2 (0.4)	146Nd (7110.8)
1410.6	169Yb	1434.7 (<0.1)	96Mo (778.3)	1452.3 (0.5)	98Mo (787.4)
1410.9 (2.7)	174Yb (176.6)	1434.8 (11.6)	45Ca (174.3)	1452.3 (0.3)	158Gd (181.9)
1412.0 (4.0)	77Se (238.9)	1434.9 (2.0)	88Sr (1836.1)	1452.7 (0.4)	190Os (186.7)
1412.1 (4.5)	184W (111.2)	1434.9 (1.7)	171Er (197.9)	1452.9 (1.4)	188Os (155.0)
1412.3 (1.4)	202Hg (439.5)	1434.9 (22.7)	171Yb (6614.7)	1453.1 (0.5)	158Gd (181.9)
1412.6 (0.6)	190Os (186.7)	1435.0 (0.2)	143Nd (742.1)	1453.9 (5.9)	167Er (207.8)
1412.7 (2.5)	235U (4155.1)	1435.1 (0.3)	77Se (238.9)	1455.1 (0.9)	177Lu (150.4)
1413.1 (7.2)	142Pr (176.9)	1435.6 (0.5)	55Cr (6246.4)	1455.2 (0.5)	62Ni (1172.8)
1413.1 (0.7)	80Br (37.1)	1435.6 (100.0)	138Ba (1435.6)	1455.4 (0.4)	77Se (238.9)
1413.2 (6.4)	144Nd (696.5)	1435.7 (4.6)	188Os (155.0)	1455.4	175Hf
1413.4 (0.6)	177Lu (150.4)	1435.7 (17.4)	249Cm (1408.3)	1455.9 (2.3)	174Yb (176.6)
1413.5 (0.4)	168Er (6228.8)	1435.9 (0.9)	235U (4155.1)	1456.0 (2.3)	70Ga (508.4)
1413.8 (<0.1)	156Gd (89.0)	1436.0 (2.1)	124Te (602.4)	1456.0 (1.6)	148Sm (550.0)
1414.1 (0.9)	92Zr (934.5)	1436.1 (0.5)	75Se (286.6)	1456.1 (0.7)	158Gd (181.9)
1414.2 (2.6)	140La (5097.9)	1436.2 (<0.1)	92Zr (934.5)	1456.2 (0.5)	96Mo (778.3)
1414.4 (8.6)	187W (5261.8)	1436.6 (0.7)	98Mo (787.4)	1457.5 (3.7)	188Os (155.0)
1415.7 (2.9)	71Ge (499.8)	1436.9 (0.3)	151Nd (4487.8)	1457.9 (0.2)	143Nd (742.1)
1415.7 (0.9)	177Lu (150.4)	1437.0 (1.7)	47Ti (159.0)	1458.2 (0.1)	200Hg (367.9)
1415.8 (2.5)	138Ba (1435.6)	1437.0 (2.0)	190Os (186.7)	1458.3 (22.9)	185W (4573.6)
1416.9 (0.5)	235U (4155.1)	1437.2 (22.2)	48Ti (983.7)	1459.0 (0.6)	96Mo (778.3)
1417.1 (0.7)	177Lu (150.4)	1437.7 (<0.1)	156Gd (89.0)	1459.0 (0.2)	144Nd (696.5)
1417.6 (0.6)	77Se (238.9)	1437.7 (2.4)	167Er (207.8)	1459.1 (0.6)	158Gd (181.9)
1418.0 (0.3)	65Ni (6034.0)	1437.8 (0.5)	63Zn (1077.4)	1460.9 (0.2)	143Nd (742.1)
1418.5 (1.0)	144Nd (696.5)	1437.9 (4.4)	158Gd (181.9)	1461.1 (0.3)	77Se (238.9)
1418.6 (6.4)	140La (5097.9)	1438.3 (1.7)	235U (4155.1)	1461.1 (0.4)	96Mo (778.3)
1419.4 (2.5)	98Mo (787.4)	1440.0 (5.3)	86Rb (557.0)	1461.6 (2.1)	103Ru (174.0)
1419.6 (0.2)	55Cr (6246.4)	1440.1 (0.2)	143Nd (742.1)	1461.6 (1.7)	235U (4155.1)
1419.7 (0.6)	158Gd (181.9)	1440.2 (0.9)	158Gd (181.9)	1462.3 (4.8)	174Yb (176.6)
1420.1 (5.0)	139Ba (627.3)	1440.3 (7.0)	66Cu (185.9)	1462.4 (0.9)	158Gd (181.9)
1420.5 (<0.1)	200Hg (367.9)	1440.5	172Yb	1462.5 (0.2)	200Hg (367.9)
1420.5 (<0.1)	178Hf (213.4)	1440.9 (0.7)	96Mo (778.3)	1462.7 (0.7)	177Lu (150.4)
1420.7 (<0.1)	178Hf (213.4)	1441.5 (2.7)	167Er (207.8)	1462.7 (0.5)	190Os (186.7)
1420.8 (1.2)	174Yb (176.6)	1441.9 (1.3)	136Ba (818.6)	1462.8 (1.0)	188Os (155.0)
1421.5 (0.4)	156Gd (89.0)	1442.1 (2.0)	88Sr (1836.1)	1463.0 (1.2)	92Zr (934.5)
1421.6 (0.9)	184W (111.2)	1442.5 (<0.1)	200Hg (367.9)	1463.1 (0.4)	80Br (37.1)
1422.4 (0.1)	200Hg (367.9)	1442.9 (0.4)	235U (4155.1)	1463.3 (0.2)	68Zn (1077.4)
1422.9 (0.8)	235U (4155.1)	1443.5 (<0.1)	178Hf (213.4)	1463.3 (0.4)	96Mo (778.3)
1423.0 (0.5)	158Gd (181.9)	1443.8 (0.7)	177Lu (150.4)	1463.5 (31.0)	84Kr (881.8)
1423.5 (0.5)	177Lu (150.4)	1444.5 (1.7)	184W (111.2)	1464.1 (0.8)	151Nd (4487.8)
1424.0 (<0.1)	71Ge (499.8)	1444.6 (21.2)	138Ba (1435.6)	1464.3 (1.9)	235U (4155.1)
1424.3 (0.2)	143Nd (742.1)	1445.1 (1.4)	143Nd (742.1)	1465.0 (0.2)	143Nd (742.1)
1424.6 (0.6)	184W (111.2)	1445.2	169Yb	1465.0 (3.0)	148Sm (550.0)
1425.1 (0.6)	96Mo (778.3)	1445.5 (0.2)	124Te (602.4)	1465.1 (3.2)	147Nd (314.7)
1425.6 (2.0)	235U (4155.1)	1446.0	175Hf	1465.4 (0.5)	146Nd (7110.8)
1426.3 (1.9)	140La (5097.9)	1446.1 (0.6)	77Se (238.9)	1465.5 (2.5)	188Os (155.0)
1426.4 (<0.1)	200Hg (367.9)	1446.3 (5.3)	58Fe (810.5)	1465.8 (0.5)	158Gd (181.9)
1426.5 (0.1)	146Nd (7110.8)	1446.6	179Hf	1466.0	172Yb
1428.0 (0.6)	235U (4155.1)	1446.9 (0.5)	177Lu (150.4)	1467.0 (0.2)	75Se (286.6)
1428.1 (0.5)	158Gd (181.9)	1446.9 (0.3)	61Ni (7819.6)	1467.1 (0.6)	98Mo (787.4)
1428.2 (0.5)	177Lu (150.4)	1447.5 (11.2)	140La (5097.9)	1467.3	169Yb
1428.7 (0.3)	156Gd (89.0)	1447.5 (0.2)	200Hg (367.9)	1467.4 (15.5)	142Pr (176.9)
1429.1 (1.0)	80Br (37.1)	1447.6 (0.2)	98Mo (787.4)	1467.5 (<0.1)	190Os (186.7)
1429.4 (1.5)	190Os (186.7)	1448.4 (3.3)	174Yb (176.6)	1467.6 (0.8)	200Hg (367.9)
1430.0 (<0.1)	71Ge (499.8)	1448.6 (<0.1)	146Nd (7110.8)	1467.7 (0.6)	58Fe (810.5)
1430.0 (4.8)	103Ru (174.0)	1448.8 (0.2)	68Zn (1077.4)	1467.7 (1.8)	103Ru (174.0)

Table 1. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)
1468.3 (0.8)	235U (4155.1)	1490.6 (0.9)	84Kr (881.8)	1519.6 (0.4)	202Hg (439.5)
1468.8 (<0.1)	146Nd (7110.8)	1491.3 (29.5)	171Yb (6614.7)	1520.5 (2.0)	145Nd (852.8)
1469.0 (<0.1)	136Ba (818.6)	1491.3 (4.9)	196Pt (356.1)	1521.1 (0.4)	172Yb
1469.3 (<0.1)	178Hf (213.4)	1491.6 (0.2)	156Gd (89.0)	1521.3 (0.4)	143Ce (4337.8)
1469.6 (0.5)	158Gd (181.9)	1491.9 (0.7)	158Gd (181.9)	1521.6 (0.3)	143Nd (742.1)
1470.0 (34.1)	171Yb (6614.7)	1492.1 (0.4)	143Nd (742.1)	1521.8 (0.2)	156Gd (89.0)
1470.4 (0.6)	62Ni (1172.8)	1492.9 (1.0)	88Sr (1836.1)	1521.9 (0.3)	146Nd (7110.8)
1470.4 (0.4)	235U (4155.1)	1493.2 (7.0)	51V (1609.3)	1522.3 (0.5)	158Gd (181.9)
1470.5	172Yb	1493.2 (0.6)	1900s (186.7)	1522.3 (<0.1)	177Lu (150.4)
1470.7 (2.7)	140La (5097.9)	1493.5 (0.4)	68Zn (1077.4)	1522.5 (1.4)	64Cu (7916.0)
1471.0 (1.1)	146Nd (7110.8)	1493.7 (0.3)	235U (4155.1)	1523.6 (1.8)	184W (111.2)
1471.7 (1.9)	145Nd (852.8)	1494.3 (<0.1)	177Lu (150.4)	1523.6 (1.3)	151Nd (4487.8)
1471.8 (7.8)	74Ge (595.7)	1494.6 (1.7)	138Ba (1435.6)	1523.8 (2.7)	167Er (207.8)
1472.5 (<0.1)	177Lu (150.4)	1494.7 (0.3)	144Nd (696.5)	1524.0 (1.6)	204Tl (139.9)
1472.9 (0.1)	98Mo (787.4)	1495.7 (8.7)	140La (5097.9)	1525.0 (9.3)	47Ti (159.0)
1473.1 (0.2)	77Se (238.9)	1496.2 (0.8)	235U (4155.1)	1525.5 (11.3)	145Nd (852.8)
1473.1 (0.3)	235U (4155.1)	1496.5 (<0.1)	146Nd (7110.8)	1525.5 (0.2)	146Nd (7110.8)
1473.2 (<0.1)	178Hf (213.4)	1496.8 (<0.1)	178Hf (213.4)	1525.7 (41.5)	249Cm (1408.3)
1473.6 (<0.1)	168Er (6228.8)	1497.3 (2.8)	141Ce (662.0)	1525.9 (0.2)	200Hg (367.9)
1474.3 (12.6)	55Cr (6246.4)	1497.6	169Yb	1526.5 (3.4)	147Nd (314.7)
1474.4 (0.8)	88Sr (1836.1)	1497.8 (6.1)	96Mo (778.3)	1526.7 (2.8)	202Hg (439.5)
1474.4 (0.5)	158Gd (181.9)	1498.3 (3.8)	49Ti (1381.5)	1527.6 (1.4)	141Ce (662.0)
1475.9 (100.0)	87Kr (1475.9)	1498.6 (0.4)	80Br (37.1)	1528.0 (0.5)	96Mo (778.3)
1476.0 (<0.1)	50Ti (1555.0)	1499.5 (0.6)	158Gd (181.9)	1529.1 (0.8)	143Ce (4337.8)
1476.4 (1.0)	77Se (238.9)	1500.0 (2.0)	139Ba (627.3)	1529.5 (4.6)	174Yb (176.6)
1476.8	172Yb	1500.0 (3.5)	140La (5097.9)	1529.8	172Yb
1476.9 (2.3)	140La (5097.9)	1500.3 (<0.1)	177Lu (150.4)	1529.9 (1.3)	78Se (613.8)
1477.3 (0.4)	158Gd (181.9)	1500.8 (2.5)	184W (111.2)	1530.1 (1.6)	158Gd (181.9)
1477.7 (1.2)	64Cu (7916.0)	1502.1 (0.5)	1900s (186.7)	1530.1 (1.3)	77Se (238.9)
1477.9 (<0.1)	202Hg (439.5)	1502.9 (<0.1)	146Nd (7110.8)	1530.5	169Yb
1477.9 (1.9)	235U (4155.1)	1503.0 (1.1)	55Fe (9297.8)	1530.6 (0.8)	1880s (155.0)
1478.0 (5.0)	204Tl (139.9)	1503.0 (1.7)	167Er (207.8)	1531.1 (0.5)	143Nd (742.1)
1478.3 (0.8)	68Zn (1077.4)	1503.2 (0.6)	200Hg (367.9)	1532.0 (1.7)	70Ga (508.4)
1478.6 (0.1)	146Nd (7110.8)	1503.7 (4.2)	184W (111.2)	1532.8 (6.7)	174Yb (176.6)
1478.8 (1.1)	48Ti (983.7)	1505.4 (0.4)	158Gd (181.9)	1533.2 (0.2)	68Zn (1077.4)
1479.0 (0.5)	177Lu (150.4)	1505.9 (0.6)	143Ce (4337.8)	1533.4 (0.3)	77Se (238.9)
1479.6 (<0.1)	200Hg (367.9)	1505.9	169Yb	1534.1 (5.4)	105Ru (143.2)
1480.1 (6.2)	249Cm (1408.3)	1506.6 (6.1)	145Nd (852.8)	1534.9 (<0.1)	177Lu (150.4)
1480.1 (0.8)	156Gd (89.0)	1506.9 (7.1)	60Co (229.8)	1535.0 (0.4)	143Nd (742.1)
1480.8 (0.5)	235U (4155.1)	1507.2 (0.3)	77Se (238.9)	1535.2 (2.5)	88Sr (1836.1)
1480.9 (0.3)	80Br (37.1)	1507.8 (0.9)	116Sn (1293.5)	1536.0 (0.3)	158Gd (181.9)
1481.9 (0.4)	143Nd (742.1)	1507.9 (0.5)	96Mo (778.3)	1536.0 (<0.1)	1900s (186.7)
1482.4 (0.4)	1900s (186.7)	1507.9 (<0.1)	177Lu (150.4)	1536.0 (0.2)	146Nd (7110.8)
1482.5 (2.5)	144Nd (696.5)	1508.0 (0.3)	98Mo (787.4)	1536.5 (2.3)	136Ba (818.6)
1482.7 (1.7)	64Cu (7916.0)	1508.4 (0.2)	143Nd (742.1)	1537.2 (2.4)	51Cr (749.0)
1483.1 (0.4)	1880s (155.0)	1509.5 (0.8)	158Gd (181.9)	1538.2 (0.2)	200Hg (367.9)
1483.9 (<0.1)	68Zn (1077.4)	1509.9 (3.8)	74Ge (595.7)	1538.6 (0.4)	77Se (238.9)
1484.3 (0.6)	235U (4155.1)	1510.6 (0.4)	144Nd (696.5)	1539.8 (0.8)	80Br (37.1)
1484.4 (6.3)	174Yb (176.6)	1511.1 (<0.1)	68Zn (1077.4)	1539.9 (0.3)	143Nd (742.1)
1484.5 (1.6)	78Se (613.8)	1511.6 (0.2)	77Se (238.9)	1540.1 (<0.1)	177Lu (150.4)
1485.0 (0.9)	70Ga (508.4)	1512.0 (1.4)	1900s (186.7)	1540.5 (0.4)	158Gd (181.9)
1485.2 (1.9)	167Er (207.8)	1512.0 (1.4)	205Pb (6731.5)	1540.5 (<0.1)	1900s (186.7)
1485.4 (0.3)	77Se (238.9)	1512.0 (0.5)	98Mo (787.4)	1541.6 (0.5)	98Mo (773.4)
1486.0 (<0.1)	165Dy (108.2)	1512.3 (3.4)	145Nd (852.8)	1541.7 (0.7)	68Zn (1077.4)
1487.6 (1.7)	184W (111.2)	1512.4 (<0.1)	178Hf (213.4)	1542.2 (<0.1)	71Ge (499.8)
1488.2 (0.5)	150Sm (334.0)	1513.5 (2.2)	143Nd (742.1)	1542.5 (1.4)	84Kr (881.8)
1488.3 (2.8)	124Te (602.4)	1513.6 (<0.1)	178Hf (213.4)	1542.5 (<0.1)	178Hf (213.4)
1488.5 (3.7)	177Yb (151.6)	1513.8 (<0.1)	177Lu (150.4)	1542.6 (0.5)	61Ni (7819.6)
1488.5 (0.8)	200Hg (367.9)	1514.8 (0.8)	200Hg (367.9)	1543.1 (1.0)	184W (111.2)
1489.2 (0.6)	77Se (238.9)	1515.2 (26.2)	60Co (229.8)	1543.1 (0.5)	200Hg (367.9)
1489.2 (4.6)	140La (5097.9)	1515.3 (0.2)	143Ce (4337.8)	1543.8 (0.3)	158Gd (181.9)
1489.2 (1.5)	1900s (186.7)	1515.4 (1.6)	144Nd (696.5)	1543.9 (17.5)	205Pb (6731.5)
1489.4 (1.9)	74Ge (595.7)	1515.6 (1.1)	75Se (286.6)	1544.3 (1.8)	107Ru (174.0)
1489.5 (0.7)	144Nd (696.5)	1516.7 (<0.1)	156Gd (89.0)	1545.0 (23.8)	73Ge (574.7)
1489.5 (1.3)	114Cd (1660.3)	1517.4 (3.7)	158Gd (181.9)	1545.9 (1.1)	116Sn (1293.5)
1489.9 (2.7)	145Nd (852.8)	1518.0 (2.9)	70Ga (508.4)	1545.9 (3.9)	98Mo (787.4)
1490.0 (0.5)	75Se (286.6)	1518.2 (0.2)	156Gd (89.0)	1546.1 (0.2)	200Hg (367.9)
1490.0 (29.8)	161Gd (5280.0)	1518.3 (0.2)	68Zn (1077.4)	1546.1 (2.0)	68Zn (1077.4)
1490.5 (0.5)	92Zr (934.5)	1518.6 (<0.1)	242Pu (5476.9)	1546.2 (0.3)	143Ce (4337.8)
1490.6 (<0.1)	68Zn (1077.4)	1519.6 (2.8)	147Nd (314.7)	1546.3 (2.3)	1900s (186.7)

Table I. CAPTURE γ 's - energy sorted (cont.)

Energy (keV) (χ_{γ})	Nucleus (Strongest γ)	Energy (keV) (χ_{γ})	Nucleus (Strongest γ)	Energy (keV) (χ_{γ})	Nucleus (Strongest γ)
1546.9 (0.2)	143Nd (742.1)	1576.9 (0.1)	168Er (6228.8)	1612.4 (21.7)	57Fe (7631.6)
1548.0 (29.0)	47Ti (159.0)	1577.6 (<0.1)	1900s (186.7)	1612.5 (0.5)	98Mo (787.4)
1548.0 (7.8)	174Yb (176.6)	1577.7 (14.5)	142Pr (176.9)	1613.0 (0.2)	144Nd (696.5)
1548.0 (0.7)	62Ni (1172.8)	1577.8 (0.7)	202Hg (439.5)	1613.2 (3.0)	138Ba (1435.6)
1548.4	179Hf	1578.6 (1.1)	143Ce (4337.8)	1613.6 (1.4)	145Nd (852.8)
1549.0 (0.1)	124Te (602.4)	1578.9 (2.2)	124Te (602.4)	1613.9 (0.1)	146Nd (7110.8)
1549.3 (1.4)	1800s (155.0)	1579.4 (1.3)	77Se (238.9)	1614.6 (0.4)	77Se (238.9)
1549.4	81Se	1579.5 (<0.1)	146Nd (7110.8)	1615.2 (<0.1)	177Lu (150.4)
1550.0 (11.9)	136Ba (818.6)	1579.8 (5.4)	136Ba (818.6)	1616.1 (1.8)	1900s (186.7)
1550.1 (0.3)	200Hg (367.9)	1580.2 (0.3)	143Nd (742.1)	1616.2 (0.3)	144Nd (696.5)
1550.4 (0.1)	77Se (238.9)	1581.1 (2.6)	103Ru (174.0)	1616.8 (0.7)	143Nd (742.1)
1550.8 (0.3)	78Se (613.8)	1581.1 (<0.1)	80Br (37.1)	1617.0 (19.5)	52V (125.1)
1550.8 (1.5)	116Sn (1293.5)	1582.2 (6.0)	66Cu (185.9)	1618.0 (5.9)	46Sc (227.8)
1551.5 (1.3)	80Br (37.1)	1584.3	172Yb	1618.0 (1.0)	71Ge (499.8)
1551.7 (0.3)	158Gd (181.9)	1584.5 (0.5)	158Gd (181.9)	1618.0 (1.6)	74Ge (595.7)
1552.2 (5.1)	174Yb (176.6)	1584.7 (0.8)	77Se (238.9)	1618.5 (<0.1)	156Gd (89.0)
1553.5	172Yb	1585.3 (8.0)	49Ti (1381.5)	1619.1 (0.4)	1880s (155.0)
1553.5 (0.1)	144Nd (696.5)	1585.3 (0.2)	143Nd (742.1)	1620.2 (0.4)	77Se (238.9)
1553.7 (0.2)	200Hg (367.9)	1585.5 (2.5)	184W (111.2)	1620.2 (0.6)	78Se (613.8)
1554.9 (1.7)	184W (111.2)	1586.0 (0.3)	143Ce (4337.8)	1620.3 (0.3)	143Nd (742.1)
1554.9 (1.4)	138Ba (1435.6)	1586.2 (0.3)	144Nd (696.5)	1620.5 (0.8)	143Ce (4337.8)
1555.0 (100.0)	50Ti (1555.0)	1587.6 (0.3)	77Se (238.9)	1621.5	172Yb
1555.0 (0.4)	78Se (613.8)	1588.0 (2.4)	177Yb (151.6)	1622.5 (0.6)	84Kr (881.8)
1555.0 (0.2)	158Gd (181.9)	1588.1 (1.8)	158Gd (181.9)	1622.9 (82.6)	249Cm (1408.3)
1555.4 (2.1)	80Br (37.1)	1589.0	172Yb	1623.5 (0.6)	200Hg (367.9)
1555.4 (0.3)	98Mo (787.4)	1589.8 (<0.1)	200Hg (367.9)	1623.7 (2.4)	77Se (238.9)
1555.6 (8.6)	143Nd (742.1)	1590.5 (29.2)	248Cm (1408.3)	1624.0 (0.4)	143Nd (742.1)
1555.8 (0.5)	151Nd (4487.8)	1592.4 (0.4)	77Se (238.9)	1624.2 (0.5)	68Zn (1077.4)
1556.2 (1.3)	145Nd (852.8)	1592.9 (0.3)	96Mo (778.3)	1624.8 (2.3)	174Yb (176.6)
1556.2 (0.2)	168Er (6228.8)	1594.5	169Yb	1624.8 (2.7)	184W (111.2)
1556.6 (0.3)	75Se (286.6)	1594.7 (0.3)	77Se (238.9)	1625.5 (0.3)	156Gd (89.0)
1556.7 (0.4)	136Ba (818.6)	1594.7 (<0.1)	156Gd (89.0)	1625.7 (1.6)	96Mo (778.3)
1556.9 (1.8)	167Er (207.8)	1595.0 (10.2)	69Zn (1008.0)	1626.7 (0.4)	1900s (186.7)
1557.1 (<0.1)	68Zn (1077.4)	1595.2 (<0.1)	1900s (186.7)	1627.1	81Se
1557.6 (0.4)	143Ce (4337.8)	1595.5 (0.2)	158Gd (181.9)	1627.3 (3.7)	57Fe (7631.6)
1557.6 (<0.1)	1900s (186.7)	1596.1 (0.1)	143Nd (742.1)	1627.7 (0.2)	68Zn (1077.4)
1557.6 (14.3)	174Yb (176.6)	1596.3 (0.2)	68Zn (1077.4)	1628.2 (1.0)	158Gd (89.0)
1557.7 (0.8)	200Hg (367.9)	1598.3 (4.7)	174Yb (176.6)	1628.5 (1.1)	143Ce (4337.8)
1558.0 (2.5)	139Ba (627.3)	1598.5 (0.6)	144Nd (696.5)	1629.2 (<0.1)	177Lu (150.4)
1558.4 (36.6)	52V (125.1)	1598.8 (0.3)	98Mo (787.4)	1629.4 (3.4)	184W (111.2)
1558.6 (0.4)	158Gd (181.9)	1599.5 (0.3)	143Nd (742.1)	1629.8 (2.0)	196Pt (356.1)
1558.8 (0.4)	143Nd (742.1)	1599.8	172Yb	1630.0 (0.3)	80Br (37.1)
1560.1 (<0.1)	146Nd (7110.8)	1599.8	81Se	1630.4 (<0.1)	143Nd (742.1)
1560.5 (1.1)	144Nd (696.5)	1600.1 (2.4)	71Ge (499.8)	1630.6 (0.2)	55Cr (6246.4)
1560.7 (25.3)	66Cu (185.9)	1600.9 (0.6)	1900s (186.7)	1630.7 (0.5)	200Hg (367.9)
1561.0 (<0.1)	1900s (186.7)	1601.0 (1.8)	204Tl (139.9)	1630.9 (0.7)	68Zn (1077.4)
1561.3 (<0.1)	178Hf (213.4)	1601.7 (0.5)	1880s (155.0)	1631.4 (1.4)	98Mo (787.4)
1561.5 (<0.1)	177Lu (150.4)	1604.3 (0.4)	77Se (238.9)	1631.7	172Yb
1561.9 (0.6)	1880s (155.0)	1604.4 (7.7)	103Ru (174.0)	1631.7 (1.1)	202Hg (439.5)
1563.5 (<0.1)	156Gd (89.0)	1604.5 (1.0)	200Hg (367.9)	1631.8 (0.2)	144Nd (696.5)
1563.8 (1.0)	158Gd (181.9)	1604.9 (0.7)	92Zr (934.5)	1632.0 (11.0)	71Ge (499.8)
1565.5 (0.3)	144Nd (696.5)	1605.0	179Hf	1632.6 (8.3)	174Yb (176.6)
1566.4 (1.0)	88Sr (1836.1)	1605.0 (0.4)	143Nd (742.1)	1633.3 (4.7)	177Yb (151.6)
1567.0 (0.8)	1900s (186.7)	1605.3 (1.9)	156Gd (89.0)	1633.4 (2.6)	184W (111.2)
1569.1 (1.0)	77Se (238.9)	1607.5 (0.3)	96Mo (778.3)	1633.6 (0.2)	200Hg (367.9)
1569.3 (<0.1)	74Ge (595.7)	1607.6 (0.1)	144Nd (696.5)	1633.7 (0.3)	80Br (37.1)
1570.2 (1.5)	184W (111.2)	1608.0 (4.3)	47Ti (159.0)	1634.1 (20.2)	174Yb (176.6)
1570.4 (7.9)	200Hg (367.9)	1608.0 (0.3)	77Se (238.9)	1634.6 (0.1)	144Nd (696.5)
1571.5 (0.6)	1900s (186.7)	1608.0 (2.9)	177Yb (151.6)	1635.2 (0.1)	77Se (238.9)
1572.2 (5.7)	143Ce (4337.8)	1608.4 (1.7)	184W (111.2)	1635.6 (<0.1)	156Gd (89.0)
1572.5 (0.3)	51V (1609.3)	1608.6	172Yb	1635.6 (0.6)	158Gd (181.9)
1572.5 (<0.1)	68Zn (1077.4)	1609.3 (100.0)	51V (1609.3)	1635.8 (1.3)	74Ge (595.7)
1572.6 (2.9)	106Pd (513.0)	1610.1 (1.6)	1880s (155.0)	1636.2	81Se
1573.0 (0.5)	144Nd (696.5)	1610.5 (0.1)	143Nd (742.1)	1637.0 (0.9)	138Ba (1435.6)
1574.1 (1.4)	74Ge (595.7)	1610.9 (0.2)	200Hg (367.9)	1637.2 (0.3)	1900s (186.7)
1574.9 (7.9)	46Sc (227.8)	1611.7 (0.5)	61Ni (7819.6)	1637.7 (0.3)	150Sm (334.0)
1574.9 (1.8)	1880s (155.0)	1611.8 (0.5)	96Mo (778.3)	1637.8 (<0.1)	146Nd (7110.8)
1575.3 (2.4)	105Ru (143.2)	1612.2 (0.1)	68Zn (1077.4)	1638.3 (0.3)	200Hg (367.9)
1576.2 (0.3)	143Nd (742.1)	1612.2 (1.3)	136Ba (818.6)	1638.7 (13.4)	66Cu (185.9)
1576.6 (0.5)	77Se (238.9)	1612.3 (0.3)	156Gd (89.0)	1638.9 (0.3)	77Se (238.9)

Table 1. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV (χ^2/ν)	Nucleus (Strongest γ)	E_{γ} keV (χ^2/ν)	Nucleus (Strongest γ)	E_{γ} keV (χ^2/ν)	Nucleus (Strongest γ)
1639.3 (0.1)	177Lu (150.4)	1672.1 (0.4)	78Se (613.8)	1702.8 (3.9)	142Pr (176.9)
1639.9 (0.9)	158Gd (181.9)	1672.5 (0.6)	179Hf (186.7)	1702.8 (0.1)	143Nd (742.1)
1640.0 (0.3)	143Nd (742.1)	1672.5 (2.6)	1900s (238.9)	1703.2 (0.3)	55Cr (6246.4)
1640.0 (2.6)	55Fe (9297.8)	1673.0 (0.8)	77Se (238.9)	1703.2 (1.1)	77Se (238.9)
1640.5 (0.4)	1900s (186.7)	1673.3 (7.3)	68Zn (1077.4)	1704.7 (<0.1)	177Lu (150.4)
1641.0 (<0.1)	158Gd (89.0)	1673.9 (0.5)	141Ce (662.0)	1705.4 (7.7)	56Mn (26.6)
1641.2 (1.0)	74Ge (595.7)	1674.2 (17.6)	58Fe (810.5)	1705.7 (0.2)	68Zn (1077.4)
1643.2 (0.2)	98Mo (787.4)	1674.2 (1.0)	158Gd (181.9)	1706.0 (0.6)	204Tl (139.9)
1643.6 (0.2)	77Se (238.9)	1674.8 (7.1)	174Yb (176.6)	1706.6 (2.9)	81Se (150.4)
1644.0	175Hf	1674.9 (0.3)	143Ce (4337.8)	1706.6 (0.6)	145Nd (852.8)
1644.8 (1.0)	158Gd (181.9)	1675.9 (0.4)	143Nd (742.1)	1706.8 (0.6)	200Hg (367.9)
1645.0 (0.2)	68Zn (1077.4)	1676.3 (0.3)	200Hg (367.9)	1707.0 (0.8)	158Gd (181.9)
1645.1 (0.9)	196Pt (356.1)	1676.5 (1.0)	74Ge (595.7)	1708.2 (2.3)	167Er (207.8)
1645.2 (0.6)	80Br (37.1)	1676.8 (3.7)	196Pt (356.1)	1709.0 (0.4)	96Mo (778.3)
1646.2 (1.3)	156Gd (89.0)	1677.3 (0.5)	75Se (286.6)	1709.0 (0.3)	143Nd (742.1)
1646.3 (0.4)	114Cd (1680.3)	1677.3 (0.8)	77Se (238.9)	1709.1 (6.1)	174Yb (176.6)
1646.8 (2.6)	145Nd (852.8)	1677.4 (11.0)	145Nd (852.8)	1710.1 (4.5)	45Ca (174.3)
1646.8 (0.4)	202Hg (439.5)	1677.7 (<0.1)	144Nd (696.5)	1710.9 (6.5)	174Yb (176.6)
1647.0 (0.2)	55Cr (6246.4)	1678.4 (<0.1)	88Sr (1836.1)	1711.0	81Se
1647.1 (<0.1)	178Hf (213.4)	1678.4 (0.4)	143Nd (742.1)	1711.7 (0.4)	200Hg (367.9)
1647.2 (0.2)	200Hg (367.9)	1678.6	172Yb	1712.0 (1.9)	77Se (238.9)
1647.6 (0.9)	96Mo (778.3)	1680.6 (3.0)	1900s (186.7)	1712.7 (0.8)	158Gd (181.9)
1648.0 (<0.1)	177Lu (150.4)	1680.9 (<0.1)	146Nd (7110.8)	1713.2 (3.5)	136Ba (818.6)
1648.3 (0.4)	143Nd (742.1)	1681.1 (0.2)	200Hg (367.9)	1713.2 (3.5)	196Pt (356.1)
1650.2 (0.5)	168Er (6228.8)	1681.1 (2.7)	174Yb (176.6)	1713.5 (1.4)	74Ge (595.7)
1650.4 (<0.1)	178Hf (213.4)	1681.3 (0.8)	143Ce (4337.8)	1713.6 (4.6)	77Se (613.8)
1650.6 (0.4)	49Tl (1381.5)	1681.8 (<0.1)	143Nd (742.1)	1714.2 (<0.1)	156Gd (89.0)
1650.9 (1.3)	143Ce (4337.8)	1682.2 (0.6)	156Gd (89.0)	1715.2 (1.8)	1900s (186.7)
1651.5 (0.5)	158Gd (181.9)	1682.4 (2.7)	64Cu (7916.0)	1715.2 (<0.1)	200Hg (367.9)
1652.8 (0.5)	92Zr (934.5)	1683.2 (0.5)	158Gd (181.9)	1715.6	172Yb
1652.8 (0.5)	78Se (613.8)	1683.8 (9.8)	142Pr (176.9)	1715.6 (1.3)	1880s (155.0)
1652.8 (0.6)	1880s (155.0)	1685.5 (0.2)	200Hg (367.9)	1715.7 (0.4)	80Br (37.1)
1653.3 (0.1)	143Nd (742.1)	1686.7 (2.3)	202Hg (439.5)	1716.5 (4.3)	103Ru (174.0)
1654.1 (0.2)	68Zn (1077.4)	1688.0 (<0.1)	177Lu (150.4)	1717.2 (0.5)	143Nd (742.1)
1654.1 (<0.1)	144Nd (696.5)	1688.1 (0.2)	143Nd (742.1)	1718.0 (10.0)	88Sr (1836.1)
1654.1 (1.0)	196Pt (356.1)	1688.4 (0.3)	1880s (155.0)	1718.3 (1.6)	62Ni (1172.8)
1656.0 (0.3)	84Kr (881.8)	1688.7 (2.5)	145Nd (852.8)	1718.6 (1.9)	200Hg (367.9)
1657.2 (0.6)	58Fe (810.5)	1689.1 (0.2)	55Cr (6246.4)	1720.1 (2.3)	124Te (602.4)
1657.3 (7.4)	174Yb (176.6)	1689.2	169Yb	1720.1 (<0.1)	1900s (186.7)
1657.6 (0.5)	96Mo (778.3)	1689.8 (<0.1)	146Nd (7110.8)	1721.3 (2.0)	78Se (613.8)
1657.7 (0.1)	168Er (6228.8)	1690.0 (0.2)	68Zn (1077.4)	1721.8 (1.5)	77Se (238.9)
1657.7 (6.8)	138Ba (1435.6)	1690.5 (0.3)	98Mo (787.4)	1722.0 (4.1)	202Hg (439.5)
1657.9 (0.7)	158Gd (181.9)	1690.7 (2.0)	124Te (602.4)	1722.2 (0.7)	200Hg (367.9)
1658.2 (0.1)	200Hg (367.9)	1691.0 (5.2)	60Co (229.8)	1723.5 (0.2)	68Zn (1077.4)
1658.5 (3.3)	205Pb (6731.5)	1691.0 (<0.1)	144Nd (696.5)	1723.7 (0.1)	143Nd (742.1)
1660.1 (<0.1)	55Cr (6246.4)	1691.4 (46.3)	111Pd (4902.5)	1723.8 (1.1)	156Gd (89.0)
1660.3 (100.0)	114Cd (1660.3)	1691.6 (0.8)	143Nd (742.1)	1723.9 (0.7)	158Gd (181.9)
1660.4 (0.8)	77Se (238.9)	1691.6 (1.3)	158Gd (181.9)	1723.9 (<0.1)	1900s (186.7)
1660.5	179Hf	1692.0 (<0.1)	150Sm (334.0)	1725.0 (2.0)	70Ga (508.4)
1660.9 (2.5)	145Nd (852.8)	1692.2 (0.1)	77Se (238.9)	1725.0 (<0.1)	178Hf (213.4)
1661.2 (<0.1)	144Nd (696.5)	1692.9 (9.8)	46Sc (227.8)	1725.4	81Se
1661.3 (0.5)	62Ni (1172.8)	1693.1 (14.0)	200Hg (367.9)	1725.7 (51.7)	45Ca (174.3)
1662.5 (1.4)	58Fe (810.5)	1693.9 (6.3)	52V (125.1)	1725.7 (29.4)	57Fe (7631.6)
1662.7 (0.3)	61Ni (7819.6)	1694.6 (0.2)	75Se (286.6)	1725.7 (<0.1)	177Lu (150.4)
1662.9 (0.6)	143Ce (4337.8)	1694.8 (<0.1)	1900s (186.7)	1725.9 (0.7)	77Se (238.9)
1663.7 (2.1)	158Gd (181.9)	1695.9 (0.1)	55Cr (6246.4)	1727.8 (0.3)	143Nd (742.1)
1663.9 (0.5)	143Nd (742.1)	1695.9 (1.3)	196Pt (356.1)	1728.4 (<0.1)	146Nd (7110.8)
1664.2 (5.8)	52V (125.1)	1695.7	172Yb	1728.4 (2.0)	174Yb (176.6)
1664.9 (0.1)	55Cr (6246.4)	1696.6 (1.3)	174Yb (176.6)	1728.5 (0.6)	156Gd (89.0)
1665.2 (<0.1)	144Nd (696.5)	1697.5 (1.9)	184W (111.2)	1728.7 (<0.1)	144Nd (696.5)
1665.6 (<0.1)	146Nd (7110.8)	1698.0 (0.2)	68Zn (1077.4)	1729.2 (0.6)	80Br (37.1)
1665.8 (<0.1)	1900s (186.7)	1698.0 (0.8)	98Mo (787.4)	1729.9 (0.8)	77Se (238.9)
1667.7 (2.4)	46Sc (227.8)	1698.0 (<0.1)	138Ba (1435.6)	1730.3 (8.5)	103Ru (174.0)
1667.8 (<0.1)	200Hg (367.9)	1698.6 (0.6)	77Se (238.9)	1730.6 (0.5)	61Ni (7819.6)
1667.9 (10.5)	86Rb (557.0)	1699.1 (<0.1)	230Hg (367.9)	1731.6 (1.0)	1900s (186.7)
1669.6 (<0.1)	200Hg (367.9)	1699.6 (5.4)	103Ru (174.0)	1732.0 (4.2)	103Ru (174.0)
1670.0 (0.7)	1880s (155.0)	1700.0 (<0.1)	1900s (186.7)	1732.2 (1.0)	156Gd (89.0)
1671.8 (19.0)	145Nd (852.8)	1701.8 (0.8)	98Mo (787.4)	1733.7 (1.6)	196Pt (356.1)
1671.8 (<0.1)	146Nd (7110.8)	1702.2	81Se	1733.7 (<0.1)	200Hg (367.9)
1672.0 (<0.1)	144Nd (696.5)	1702.8 (0.9)	96Mo (778.3)		

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV (% γ)	Nucleus (Strongest γ)	E_{γ} keV (% γ)	Nucleus (Strongest γ)	E_{γ} keV (% γ)	Nucleus (Strongest γ)
1733.9 (0.5)	143Nd (742.1)	1765.6 (2.3)	184W (111.2)	1797.1 (0.4)	1900s (186.7)
1734.2 (<0.1)	144Nd (696.5)	1765.8	172Yb	1798.4 (1.2)	136Ba (818.6)
1734.6 (0.4)	80Br (37.1)	1765.9 (<0.1)	1900s (186.7)	1799.1 (3.1)	88Sr (1836.1)
1735.3 (2.1)	184W (111.2)	1766.0 (0.7)	156Gd (89.0)	1799.2 (0.3)	200Hg (367.9)
1736.5 (0.2)	124Te (602.4)	1766.7 (0.3)	146Nd (7110.8)	1800.4 (4.3)	60Co (229.8)
1736.8 (0.4)	143Ce (4337.8)	1767.2 (0.3)	68Zn (1077.4)	1800.4 (0.9)	158Gd (181.9)
1737.0 (<0.1)	88Sr (1836.1)	1768.4 (<0.1)	168Er (6228.8)	1801.4 (4.6)	51V (1609.3)
1737.2 (<0.1)	177Lu (150.4)	1770.5 (1.2)	1900s (186.7)	1801.8 (3.2)	1880s (155.0)
1737.6 (0.9)	158Gd (89.0)	1771.1 (<0.1)	146Nd (7110.8)	1802.0 (0.2)	202Hg (439.5)
1738.9 (0.3)	156Gd (89.0)	1771.3	172Yb	1803.4 (0.4)	77Se (238.9)
1739.3 (0.5)	98Mo (787.4)	1771.3 (0.4)	77Se (238.9)	1803.7 (0.5)	55Cr (6246.4)
1739.5 (1.6)	145Nd (852.8)	1771.9 (<0.1)	178Hf (213.4)	1803.7 (<0.1)	177Lu (150.4)
1740.0 (0.2)	143Nd (742.1)	1771.9 (0.2)	200Hg (367.9)	1803.7 (4.8)	196Pt (356.1)
1740.2 (<0.1)	200Hg (367.9)	1772.7 (4.5)	47Ca (2013.6)	1804.6 (<0.1)	144Nd (696.5)
1741.0 (1.9)	204Tl (139.9)	1773.5 (4.4)	60Co (229.8)	1805.2 (4.6)	177Yb (151.6)
1741.4 (0.1)	146Nd (7110.8)	1774.0 (6.3)	147Nd (314.7)	1805.4 (3.0)	60Co (229.8)
1742.4 (1.0)	84Kr (881.8)	1774.1 (0.7)	141Ce (662.0)	1805.7 (<0.1)	146Nd (7110.8)
1743.0 (0.3)	80Br (37.1)	1774.2 (2.2)	174Yb (176.6)	1806.4 (<0.1)	156Gd (89.0)
1743.2 (2.9)	71Ge (499.8)	1774.5 (0.1)	143Nd (742.1)	1807.2 (0.3)	143Nd (742.1)
1743.3	172Yb	1774.7 (2.3)	98Mo (787.4)	1807.7 (0.4)	1900s (186.7)
1743.9 (1.6)	103Ru (174.0)	1774.8 (1.9)	158Gd (181.9)	1808.0 (1.0)	74Ge (595.7)
1744.0 (0.2)	143Nd (742.1)	1775.6 (0.4)	77Se (238.9)	1808.4 (1.7)	141Ce (662.0)
1744.1 (<0.1)	144Nd (696.5)	1776.4 (22.0)	51V (1609.3)	1807.5 (1.4)	184W (111.2)
1744.2 (4.1)	68Zn (1077.4)	1777.3 (<0.1)	146Nd (7110.8)	1808.8 (0.2)	51Cr (749.0)
1744.2 (0.5)	77Se (238.9)	1777.6 (0.4)	68Zn (1077.4)	1808.9 (1.8)	172Yb (176.6)
1744.2 (0.6)	78Se (613.8)	1777.8 (30.8)	52V (125.1)	1810.0 (4.2)	160Tb (75.1)
1744.3 (0.3)	146Nd (7110.8)	1777.8 (2.0)	71Ge (499.8)	1810.3 (0.2)	202Hg (439.5)
1745.9 (<0.1)	200Hg (367.9)	1779.8 (1.5)	88Sr (1836.1)	1811.2 (0.3)	200Hg (367.9)
1745.9 (20.6)	66Cu (185.9)	1779.8 (<0.1)	146Nd (7110.8)	1811.3 (0.2)	80Br (37.1)
1746.8 (<0.1)	1900s (186.7)	1781.5 (0.9)	68Zn (1077.4)	1812.0 (8.5)	69Zn (1008.0)
1747.0 (18.4)	56Mn (26.6)	1782.0 (1.4)	158Gd (181.9)	1812.1 (<0.1)	146Nd (7110.8)
1747.8 (0.6)	78Se (613.8)	1782.1 (0.6)	143Ce (4337.8)	1812.2 (0.4)	75Se (286.6)
1748.0 (0.4)	98Mo (787.4)	1782.2 (0.3)	156Gd (89.0)	1812.3 (3.4)	145Nd (852.8)
1748.7 (3.4)	141Ce (662.0)	1782.3 (4.2)	174Yb (176.6)	1812.6 (<0.1)	144Nd (696.5)
1748.7 (0.8)	143Ce (4337.8)	1782.5 (4.1)	147Nd (314.7)	1813.3 (20.0)	51V (1609.3)
1749.5 (0.2)	124Te (602.4)	1783.3 (0.1)	200Hg (367.9)	1813.4 (20.6)	205Pb (6731.5)
1750.7 (<0.1)	144Nd (696.5)	1783.6 (2.1)	138Ba (1435.6)	1814.2 (5.1)	46Sc (227.8)
1750.7 (<0.1)	146Nd (7110.8)	1783.7 (0.7)	202Hg (439.5)	1815.1 (1.3)	158Gd (181.9)
1752.0 (3.5)	139Ba (627.3)	1784.7 (11.7)	54Cr (8884.1)	1815.4 (0.3)	96Mo (778.3)
1753.4 (0.4)	158Gd (181.9)	1784.8	81Se	1815.4 (0.4)	80Br (37.1)
1753.5 (0.7)	77Se (238.9)	1785.2 (2.7)	60Co (229.8)	1815.7	172Yb
1753.6 (2.8)	46Sc (227.8)	1785.2 (0.7)	1880s (155.0)	1815.7 (0.1)	156Gd (89.0)
1753.6 (0.6)	80Br (37.1)	1785.4 (0.2)	143Nd (742.1)	1815.8 (0.5)	62Ni (1172.8)
1753.8 (0.5)	156Gd (89.0)	1785.4 (1.1)	98Mo (787.4)	1816.4 (0.2)	48Ti (983.7)
1754.6 (0.2)	200Hg (367.9)	1785.9 (1.2)	158Gd (181.9)	1816.4 (0.3)	55Cr (6246.4)
1754.9 (<0.1)	1900s (186.7)	1786.1 (3.2)	184W (111.2)	1816.9 (2.0)	145Nd (852.8)
1754.9 (0.6)	143Nd (742.1)	1787.3 (<0.1)	146Nd (7110.8)	1817.6 (<0.1)	146Nd (7110.8)
1755.0 (1.8)	204Tl (139.9)	1787.9	172Yb	1818.5 (1.7)	156Gd (89.0)
1755.3 (<0.1)	144Nd (696.5)	1788.0 (0.6)	143Nd (742.1)	1821.0 (9.7)	47Ti (159.0)
1755.6 (<0.1)	177Lu (150.4)	1788.1 (0.7)	77Se (238.9)	1821.0 (<0.1)	144Nd (696.5)
1756.3 (1.0)	74Ge (595.7)	1788.2 (2.0)	147Nd (314.7)	1821.6 (2.0)	145Nd (852.8)
1757.0 (0.6)	143Ce (4337.8)	1789.0 (0.5)	202Hg (439.5)	1822.0 (2.2)	136Ba (818.6)
1757.4 (1.2)	156Gd (89.0)	1790.0 (10.7)	47Ti (159.0)	1822.1 (0.5)	1900s (186.7)
1758.1 (0.4)	80Br (37.1)	1791.1 (1.0)	77Se (238.9)	1822.3 (0.2)	200Hg (367.9)
1758.3 (0.1)	68Zn (1077.4)	1791.1 (1.1)	78Se (613.8)	1823.1 (0.4)	202Hg (439.5)
1758.9 (0.4)	98Mo (787.4)	1791.3 (0.2)	68Zn (1077.4)	1823.8 (0.7)	105Ru (143.2)
1759.1 (0.3)	77Se (238.9)	1791.3 (<0.1)	177Lu (150.4)	1825.9 (0.3)	200Hg (367.9)
1759.2 (0.4)	158Gd (181.9)	1793.0 (1.1)	70Ga (508.4)	1826.3 (2.0)	105Ru (143.2)
1759.3 (0.9)	200Hg (367.9)	1793.4 (0.3)	150Sm (334.0)	1826.3 (2.2)	156Gd (89.0)
1759.9 (2.8)	145Nd (852.8)	1793.5 (2.0)	49Ti (1381.5)	1826.3 (3.2)	196Pt (356.1)
1761.0 (1.3)	62Ni (1172.8)	1793.8 (3.8)	52V (125.1)	1826.8 (0.3)	96Mo (778.3)
1761.1 (1.7)	88Sr (1836.1)	1793.9 (0.2)	92Zr (934.5)	1826.8 (1.9)	184W (111.2)
1761.2 (0.4)	80Br (37.1)	1793.9 (0.3)	96Mo (778.3)	1828.1	81Se
1761.8 (0.9)	96Mo (778.3)	1794.4 (0.1)	202Hg (439.5)	1828.1 (1.0)	156Gd (89.0)
1762.0 (4.6)	49Ti (1381.5)	1795.1 (0.5)	1880s (155.0)	1829.2 (20.5)	60Co (229.8)
1762.5 (1.3)	156Gd (89.0)	1795.2 (0.3)	80Br (37.1)	1829.8 (0.2)	200Hg (367.9)
1763.4 (0.3)	92Zr (934.5)	1795.4 (1.2)	158Gd (181.9)	1830.0 (6.0)	69Zn (1008.0)
1764.4 (0.7)	141Ce (662.0)	1795.9 (0.3)	143Nd (742.1)	1830.2 (2.4)	46Sc (227.8)
1764.6 (0.2)	143Nd (742.1)	1796.0 (0.2)	200Hg (367.9)	1830.4 (0.6)	74Ge (595.7)
1765.5 (0.4)	202Hg (439.5)	1796.6 (10.0)	142Pr (176.9)	1830.9 (0.1)	143Nd (742.1)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\times 10^3$)	Nucleus (Strongest γ)	E_{γ} keV ($\times 10^3$)	Nucleus (Strongest γ)	E_{γ} keV ($\times 10^3$)	Nucleus (Strongest γ)
1831.1 (0.3)	77Se (238.9)	1862.7 (<0.1)	146Nd (7110.8)	1899.3 (15.4)	51Cr (749.0)
1832.2 (<0.1)	144Nd (696.5)	1864.7 (1.6)	158Gd (181.9)	1900.0 (15.6)	45Ca (174.3)
1832.8 (1.7)	145Nd (852.8)	1865.0 (1.5)	70Ga (508.4)	1900.0 (0.4)	80Br (37.1)
1832.9 (<0.1)	156Gd (89.0)	1865.3	81Se	1902.2 (0.3)	68Zn (1077.4)
1832.9 (<0.1)	146Nd (7110.8)	1865.5 (2.8)	1880s (155.0)	1902.5 (1.0)	88Sr (1836.1)
1833.0 (0.9)	98Mo (787.4)	1866.0 (<0.1)	178Hf (213.4)	1902.7 (0.7)	156Gd (89.0)
1834.6 (2.5)	184W (111.2)	1867.4 (<0.1)	156Gd (89.0)	1902.8 (0.9)	143Ce (4337.8)
1834.7 (1.0)	168Er (6228.8)	1867.5 (<0.1)	144Nd (696.5)	1902.8 (2.1)	184W (111.2)
1834.8 (1.4)	156Gd (181.9)	1868.0 (0.5)	143Nd (742.1)	1902.9 (0.5)	158Gd (181.9)
1835.8 (1.1)	143Ce (4337.8)	1869.4 (0.6)	98Mo (787.4)	1903.2 (<0.1)	146Nd (7110.8)
1836.1 (100.0)	88Sr (1836.1)	1869.7 (3.7)	184W (111.2)	1904.6 (0.8)	1880s (155.0)
1836.1 (0.5)	1900s (186.7)	1869.9 (5.1)	174Yb (176.6)	1905.0 (<0.1)	144Nd (696.5)
1837.8 (0.1)	77Se (238.9)	1870.0 (0.8)	158Gd (181.9)	1905.5 (0.2)	80Br (37.1)
1838.1 (0.1)	200Hg (367.9)	1870.0 (<0.1)	177Lu (150.4)	1906.0 (0.2)	77Se (238.9)
1838.8 (0.8)	1900s (186.7)	1870.0 (0.2)	202Hg (439.5)	1906.2 (0.5)	200Hg (367.9)
1838.9 (4.0)	103Ru (174.0)	1870.1 (2.0)	46Sc (227.8)	1906.3 (0.3)	143Nd (742.1)
1839.8 (21.0)	87Kr (1475.9)	1871.8 (0.2)	143Nd (742.1)	1906.8 (0.7)	48Ti (983.7)
1840.4 (2.6)	202Hg (439.5)	1872.6 (1.7)	77Se (238.9)	1906.8 (<0.1)	146Nd (7110.8)
1840.8 (0.3)	143Nd (742.1)	1873.0 (1.4)	156Gd (89.0)	1907.0 (1.7)	70Ga (508.4)
1840.9 (7.0)	147Nd (314.7)	1873.3 (0.3)	55Cr (6246.4)	1907.3 (1.3)	105Ru (143.2)
1841.1 (2.6)	136Ba (818.6)	1873.5 (<0.1)	146Nd (7110.8)	1907.7 (<0.1)	156Gd (89.0)
1841.5 (0.3)	114Cd (1660.3)	1875.6 (0.9)	196Pt (356.1)	1908.3 (0.2)	55Cr (6246.4)
1841.9	81Se	1876.2 (5.2)	56Mn (26.6)	1908.9 (<0.1)	1900s (186.7)
1842.1 (0.4)	55Cr (6246.4)	1877.2 (0.4)	98Mo (787.3)	1909.2 (<0.1)	144Nd (696.5)
1842.1 (<0.1)	144Nd (696.5)	1877.3 (2.1)	184W (111.2)	1910.1 (1.6)	64Cu (7916.0)
1843.2 (0.9)	143Ce (4337.8)	1877.7	172Yb	1910.1 (3.1)	205Pb (6731.5)
1844.9	172Yb	1878.0 (1.2)	55Fe (9297.8)	1910.3 (1.0)	88Sr (1836.1)
1845.0 (0.7)	74Ge (595.7)	1878.3 (1.2)	158Gd (181.9)	1910.5 (2.3)	105Ru (143.2)
1845.5 (0.5)	156Gd (89.0)	1878.7 (1.3)	84Kr (881.8)	1910.6 (0.9)	158Gd (181.9)
1845.9 (2.8)	145Nd (852.8)	1878.8 (0.2)	202Hg (439.5)	1910.8 (4.0)	143Nd (742.1)
1846.3 (1.1)	96Mo (778.3)	1879.3 (0.1)	200Hg (367.9)	1910.8 (0.8)	141Ce (662.0)
1846.7 (0.8)	143Nd (742.1)	1879.9 (0.3)	143Nd (742.1)	1910.8 (<0.1)	146Nd (7110.8)
1846.7 (0.6)	49Ti (1381.5)	1879.9 (<0.1)	156Gd (89.0)	1912.2 (1.5)	143Ce (4337.8)
1847.3 (4.6)	92Zr (934.5)	1880.1 (2.1)	103Ru (174.0)	1913.1 (0.8)	98Mo (787.4)
1847.5 (<0.1)	1900s (186.7)	1880.5 (<0.1)	146Nd (7110.8)	1913.5 (1.1)	196Pt (356.1)
1847.6 (3.2)	147Nd (314.7)	1880.8 (0.8)	136Ba (818.6)	1914.1 (<0.1)	146Nd (7110.8)
1847.9 (0.5)	98Mo (787.4)	1880.8 (1.1)	1880s (155.0)	1914.7 (0.3)	80Br (37.1)
1848.2 (<0.1)	168Er (6228.8)	1880.9 (0.3)	114Cd (1660.3)	1915.0 (<0.1)	168Er (6228.8)
1848.4 (1.8)	77Se (238.9)	1881.6 (2.0)	88Sr (1836.1)	1915.2 (13.9)	56Mn (26.6)
1848.4 (2.1)	184W (111.2)	1881.9 (0.4)	49Ti (1381.5)	1915.5 (0.8)	156Gd (89.0)
1850.0 (0.8)	62Ni (1172.8)	1882.0 (1.5)	68Zn (1077.4)	1916.0 (0.4)	77Se (238.9)
1850.1	172Yb	1882.3 (0.3)	75Se (286.6)	1917.4 (<0.1)	146Nd (7110.8)
1850.8 (<0.1)	156Gd (89.0)	1882.3 (4.5)	174Yb (176.6)	1917.7 (0.4)	202Hg (439.5)
1851.0 (0.9)	77Se (238.9)	1883.0 (1.2)	158Gd (181.9)	1918.3 (0.5)	1900s (186.7)
1851.1 (6.2)	60Co (229.8)	1883.1 (18.7)	68Zn (1077.4)	1918.6 (0.3)	96Mo (778.3)
1851.1 (2.2)	147Nd (314.7)	1883.4 (0.3)	143Ce (4337.8)	1918.7 (1.7)	124Te (602.4)
1851.4 (0.8)	124Te (602.4)	1883.6 (0.8)	202Hg (439.5)	1919.0 (4.7)	174Yb (176.6)
1851.6 (0.3)	80Br (37.1)	1883.8 (0.8)	143Nd (742.1)	1919.7 (<0.1)	146Nd (7110.8)
1852.0 (1.0)	78Se (613.8)	1883.9 (1.6)	1900s (186.7)	1920.0 (3.2)	55Fe (9297.8)
1852.4 (2.9)	143Nd (742.1)	1884.2	81Se	1920.1 (1.9)	184W (111.2)
1853.0 (0.6)	202Hg (439.5)	1884.7 (0.3)	77Se (238.9)	1920.6 (1.5)	143Nd (742.1)
1853.3 (<0.1)	146Nd (7110.8)	1885.1 (0.8)	92Zr (934.5)	1921.1 (0.4)	200Hg (367.9)
1853.8 (1.1)	64Cu (7916.0)	1886.2 (2.2)	62Ni (1172.8)	1922.0 (12.6)	59Fe (287.0)
1853.8 (0.6)	1880s (155.0)	1886.3 (0.4)	98Mo (787.4)	1922.6 (0.8)	143Ce (4337.8)
1854.6 (1.1)	184W (111.2)	1886.9 (<0.1)	1900s (186.7)	1922.9 (1.3)	156Gd (89.0)
1855.1 (<0.1)	144Nd (696.5)	1887.3 (<0.1)	156Gd (89.0)	1923.2 (1.1)	96Mo (778.3)
1855.6 (0.6)	143Nd (742.1)	1888.2 (3.1)	158Gd (181.9)	1923.7 (2.3)	78Se (613.8)
1856.1 (4.2)	147Nd (314.7)	1888.3 (0.8)	1880s (155.0)	1925.4 (0.5)	1900s (186.7)
1856.1 (0.3)	96Mo (778.3)	1889.3 (20.0)	86Rb (557.0)	1925.9 (0.2)	68Zn (1077.4)
1856.7 (0.3)	77Se (238.9)	1889.3 (2.3)	196Pt (356.1)	1926.7 (0.9)	105Ru (143.2)
1857.0 (2.9)	158Gd (181.9)	1889.8 (6.0)	142Pr (176.9)	1926.8 (1.1)	106Pd (513.0)
1857.4 (0.1)	200Hg (367.9)	1892.0	81Se	1927.4 (0.6)	124Te (602.4)
1857.5 (7.9)	46Sc (227.8)	1893.0 (<0.1)	156Gd (89.0)	1928.0 (0.3)	143Ce (4337.8)
1857.5 (1.6)	156Gd (89.0)	1894.8 (1.0)	78Se (613.8)	1928.2 (0.2)	200Hg (367.9)
1858.1 (2.7)	174Yb (176.6)	1895.5 (<0.1)	144Nd (696.5)	1928.4 (<0.1)	143Nd (742.1)
1859.6 (2.3)	103Ru (174.0)	1895.7 (3.3)	145Nd (852.8)	1930.0 (1.2)	70Ga (508.4)
1859.9 (0.5)	1900s (186.7)	1895.7 (2.5)	184W (111.2)	1930.7 (0.7)	1880s (155.0)
1860.4 (0.4)	200Hg (367.9)	1897.6 (9.6)	84Kr (881.8)	1930.9 (0.4)	105Ru (143.2)
1861.0 (<0.1)	177Lu (150.4)	1898.0 (81.8)	137Ba (4712.0)	1931.3	172Yb
1862.5 (2.4)	58Fe (810.5)	1898.8 (0.4)	1900s (186.7)	1931.4 (<0.1)	156Gd (89.0)

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E γ keV ($\% \gamma$)	Nucleus (Strongest γ)
1931.7 (0.9)	1900s (186.7)	1970.5 (2.3)	158Gd (181.9)	2013.3 (1.0)	51Cr (749.0)
1932.1 (0.8)	88Zn (1077.4)	1970.9 (0.1)	200Hg (367.9)	2013.4 (0.9)	204Tl (139.9)
1932.2 (0.5)	202Hg (439.5)	1971.0 (11.1)	58Fe (810.5)	2013.6 (100.0)	47Ca (2013.6)
1932.9 (0.6)	143Nd (742.1)	1971.2 (3.4)	196Pt (356.1)	2014.2 (1.4)	74Ge (595.7)
1933.6 (2.0)	174Yb (176.6)	1971.6 (0.4)	74Ge (595.7)	2014.4 (0.9)	156Gd (89.0)
1934.1 (1.5)	88Sr (1836.1)	1971.9 (0.8)	1880s (155.0)	2014.6 (2.5)	158Gd (181.9)
1934.7 (0.4)	75Se (286.6)	1971.9 (0.4)	1900s (186.7)	2015.3 (5.2)	184W (111.2)
1935.5 (0.7)	116Sn (1293.5)	1972.2 (0.9)	77Se (238.9)	2016.5 (18.7)	56Mn (26.6)
1936.9 (0.4)	143Nd (742.1)	1974.9 (1.3)	92Zr (934.5)	2017.4 (3.0)	98Mo (787.4)
1936.9 (1.8)	145Nd (852.8)	1975.1 (<0.1)	146Nd (7110.8)	2017.9 (2.3)	156Gd (89.0)
1937.8 (1.2)	156Gd (89.0)	1975.4 (0.7)	77Se (238.9)	2018.5 (0.7)	77Se (238.9)
1938.1 (0.6)	45Ca (174.3)	1975.8 (0.3)	200Hg (367.9)	2018.8 (3.2)	143Ce (4337.8)
1938.3 (<0.1)	144Nd (696.5)	1976.3 (0.5)	202Hg (439.5)	2020.6 (0.3)	200Hg (367.9)
1938.5 (2.6)	174Yb (176.6)	1977.7 (<0.1)	146Nd (7110.8)	2021.2 (4.7)	52V (125.1)
1938.7 (0.7)	202Hg (439.5)	1978.0 (1.0)	184W (111.2)	2021.9 (0.5)	143Nd (742.1)
1938.9 (1.3)	1880s (155.0)	1978.7 (4.9)	196Pt (356.1)	2022.2 (0.5)	75Se (286.6)
1938.9 (0.5)	1900s (186.7)	1979.9 (1.0)	98Mo (787.4)	2022.3 (<0.1)	144Nd (696.5)
1939.0 (0.4)	77Se (238.9)	1981.4 (0.4)	77Se (238.9)	2023.1 (2.5)	1880s (155.0)
1941.0 (2.9)	71Ge (499.8)	1981.4 (0.1)	146Nd (7110.8)	2023.2 (33.3)	49Ca (5146.6)
1941.0 (3.1)	74Ge (595.7)	1981.6 (1.0)	156Gd (89.0)	2023.3 (1.3)	1900s (186.7)
1941.3 (1.3)	143Nd (742.1)	1983.6 (0.5)	80Br (37.1)	2023.8 (1.7)	158Gd (181.9)
1942.5 (9.2)	147Nd (314.7)	1983.7 (1.1)	45Ca (174.3)	2023.9 (6.2)	56Mn (26.6)
1942.5 (0.6)	1900s (186.7)	1984.2 (0.1)	146Nd (7110.8)	2024.2 (5.8)	172Yb (176.6)
1943.3 (2.9)	142Pr (176.9)	1984.5 (0.1)	200Hg (367.9)	2024.7 (5.8)	138Ba (1435.6)
1943.4 (2.6)	158Gd (89.0)	1985.1 (5.4)	62Ni (1172.8)	2025.1 (7.9)	174Yb (176.6)
1944.1 (1.0)	1880s (155.0)	1985.5 (<0.1)	144Nd (696.5)	2027.0 (0.6)	156Gd (89.0)
1944.2 (<0.1)	146Nd (7110.8)	1986.6 (2.1)	184W (111.2)	2027.5 (0.1)	204Tl (139.9)
1944.4 (0.6)	77Se (238.9)	1987.0 (1.1)	156Gd (89.0)	2027.8 (2.7)	103Ru (174.0)
1944.9 (0.9)	143Nd (742.1)	1987.6 (15.2)	56Mn (26.6)	2027.9 (0.4)	68Zn (1077.4)
1945.1 (0.6)	98Mo (787.4)	1987.8 (0.8)	143Nd (742.1)	2027.9 (1.6)	143Ce (4337.8)
1945.3 (5.7)	184W (111.2)	1987.8 (3.5)	147Nd (314.7)	2028.0 (1.9)	143Nd (742.1)
1946.1 (1.1)	156Gd (89.0)	1988.4 (0.9)	106Pd (513.0)	2029.5 (0.4)	77Se (238.9)
1949.2 (0.5)	1900s (186.7)	1988.6 (1.2)	158Gd (89.0)	2030.0 (<0.1)	146Nd (7110.8)
1949.6 (4.8)	184W (111.2)	1988.6 (<0.1)	1900s (186.7)	2030.8 (2.5)	147Nd (314.7)
1949.9 (3.4)	143Ce (4337.8)	1988.8 (2.6)	92Zr (934.5)	2031.0 (<0.1)	1900s (186.7)
1950.4 (<0.1)	144Nd (696.5)	1989.2 (<0.1)	146Nd (7110.8)	2031.3 (1.4)	78Se (613.8)
1950.5 (0.2)	143Nd (742.1)	1991.7 (2.2)	174Yb (176.6)	2031.8 (2.1)	103Ru (174.0)
1952.3 (3.0)	139Ba (627.3)	1993.2 (0.6)	143Ce (4337.8)	2032.4 (1.2)	156Gd (89.0)
1953.2 (6.4)	52V (125.1)	1994.6 (5.0)	54Cr (8884.1)	2032.6 (0.2)	200Hg (367.9)
1953.7 (2.0)	88Sr (1836.1)	1995.0 (<0.1)	1900s (186.7)	2033.0 (6.9)	71Ge (499.8)
1954.6 (3.5)	136Ba (818.6)	1995.3 (5.3)	184W (111.2)	2033.1 (1.2)	143Nd (742.1)
1955.9 (0.9)	156Gd (89.0)	1995.6 (1.1)	147Nd (314.7)	2034.2 (1.2)	78Se (613.8)
1955.9 (4.2)	158Gd (181.9)	1996.0 (1.7)	143Nd (742.1)	2034.3 (1.1)	77Se (238.9)
1956.9 (0.7)	172Yb (176.6)	1996.3 (4.3)	78Se (613.8)	2034.9 (1.2)	1880s (155.0)
1957.2 (0.7)	96Mo (778.3)	1997.3 (0.7)	172Yb (176.6)	2035.0 (5.3)	184W (111.2)
1957.6 (0.1)	200Hg (367.9)	1998.0 (1.0)	124Te (602.4)	2036.8 (<0.1)	144Nd (696.5)
1957.8 (1.0)	141Ce (682.0)	1999.7 (<0.1)	156Gd (89.0)	2036.9 (6.9)	48Ti (983.7)
1958.0 (<0.1)	144Nd (696.5)	2000.8 (0.3)	143Nd (742.1)	2037.0 (0.5)	75Se (286.6)
1958.0 (2.6)	1880s (155.0)	2001.1 (2.6)	51Cr (749.0)	2037.2 (0.6)	77Se (238.9)
1959.0 (1.5)	156Gd (89.0)	2001.2 (2.7)	147Nd (314.7)	2037.8 (0.1)	146Nd (7110.8)
1959.1 (0.3)	77Se (238.9)	2002.0 (4.8)	52V (125.1)	2038.6 (1.8)	124Te (602.4)
1959.4 (0.3)	202Hg (439.5)	2002.1 (6.5)	200Hg (367.9)	2039.6 (4.2)	105Ru (143.2)
1959.5 (5.1)	81Se (174.0)	2002.7 (1.2)	184W (111.2)	2040.1 (0.7)	143Nd (742.1)
1960.1 (4.4)	52V (125.1)	2003.0 (<0.1)	146Nd (7110.8)	2040.6 (1.9)	158Gd (181.9)
1960.1 (0.7)	156Gd (89.0)	2003.1 (0.7)	78Se (613.8)	2041.0 (2.3)	147Nd (314.7)
1962.0 (0.7)	156Gd (89.0)	2003.9 (2.3)	174Yb (176.6)	2041.1 (1.2)	196Pt (356.1)
1963.2 (1.3)	77Se (238.9)	2004.5 (7.1)	46Sc (227.8)	2041.3 (1.2)	1880s (155.0)
1963.5 (0.2)	200Hg (367.9)	2004.8 (12.7)	51V (1609.3)	2042.7 (0.3)	143Nd (742.1)
1963.5 (0.4)	143Nd (742.1)	2005.2 (10.0)	87Kr (1475.9)	2042.9 (0.7)	143Ce (4337.8)
1964.0 (6.0)	59Fe (287.0)	2005.3 (0.7)	1900s (186.7)	2044.0 (2.1)	174Yb (176.6)
1964.9 (0.8)	1900s (186.7)	2005.5 (1.3)	49Ti (1381.5)	2044.2 (0.9)	105Ru (143.2)
1965.2 (3.8)	156Gd (89.0)	2007.3 (1.8)	147Nd (314.7)	2044.2 (0.2)	200Hg (367.9)
1965.3 (4.9)	71Ge (499.8)	2008.5 (0.9)	96Mo (778.3)	2044.2 (10.2)	47Ca (2013.6)
1967.2 (<0.1)	144Nd (696.5)	2009.4 (<0.1)	177Lu (150.4)	2044.7 (11.7)	56Mn (26.6)
1968.3 (4.7)	172Yb (176.6)	2009.9 (0.7)	77Se (238.9)	2045.6 (<0.1)	146Nd (7110.8)
1968.6 (1.2)	145Nd (852.8)	2010.0 (<0.1)	1900s (186.7)	2047.3 (2.3)	78Se (613.8)
1968.8 (0.6)	48Ti (983.7)	2010.1 (0.9)	172Yb (176.6)	2047.4 (0.3)	143Nd (742.1)
1968.9 (<0.1)	80Br (37.1)	2011.3 (0.9)	1900s (186.7)	2047.7 (0.5)	156Gd (89.0)
1969.0 (<0.1)	146Nd (7110.8)	2011.8 (0.9)	96Mo (778.3)	2049.3 (1.5)	1880s (155.0)
1969.1 (0.5)	143Nd (742.1)	2011.8 (1.5)	1880s (155.0)	2050.0 (3.0)	55Fe (9297.8)

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV (% γ)	Nucleus (Strongest γ)	E γ keV (% γ)	Nucleus (Strongest γ)	E γ keV (% γ)	Nucleus (Strongest γ)
2050.0 (3.0)	55Fe (9297.8)	2095.3 (<0.1)	144Nd (696.5)	2135.2 (5.9)	147Nd (314.7)
2050.2 (<0.1)	144Nd (696.5)	2095.5 (6.3)	174Yb (176.6)	2136.0 (0.3)	156Gd (89.0)
2051.0 (3.1)	52V (125.1)	2095.6 (0.3)	143Nd (742.1)	2136.0 (0.2)	146Nd (7110.8)
2051.2 (0.7)	156Gd (89.0)	2096.1 (5.0)	147Nd (314.7)	2137.6 (3.3)	57Fe (7631.6)
2051.9 (0.7)	1900s (186.7)	2096.3 (<0.1)	146Nd (7110.8)	2137.6 (1.1)	58Fe (810.5)
2052.9 (0.1)	51Cr (749.0)	2096.7 (<0.1)	1900s (186.7)	2138.5 (2.1)	56Mn (26.6)
2056.3 (4.5)	184W (111.2)	2097.0 (1.8)	72Ga (145.1)	2139.2 (0.9)	77Se (238.9)
2057.8 (<0.1)	146Nd (7110.8)	2097.3 (9.5)	62Ni (1172.8)	2139.4 (0.4)	156Gd (89.0)
2058.3 (0.6)	156Gd (89.0)	2097.6 (2.6)	184W (111.2)	2139.7 (0.4)	200Hg (367.9)
2059.2 (1.1)	158Gd (181.9)	2098.1 (1.2)	1880s (155.0)	2140.4 (0.4)	88Sr (1836.1)
2059.8 (0.7)	1880s (155.0)	2098.2 (0.6)	156Gd (89.0)	2141.0 (<0.1)	51Cr (749.0)
2060.0 (<0.1)	138Ba (1435.6)	2098.8 (0.5)	143Nd (742.1)	2141.3 (0.4)	51Cr (749.0)
2060.4 (0.4)	143Nd (742.1)	2099.2 (0.5)	74Ge (595.7)	2141.3 (<0.1)	1900s (186.7)
2061.3 (1.3)	143Ce (4337.8)	2100.5 (6.5)	52V (125.1)	2142.5 (<0.1)	146Nd (7110.8)
2061.5 (0.9)	156Gd (89.0)	2100.9 (0.6)	143Nd (742.1)	2142.7 (<0.1)	144Nd (696.5)
2062.9 (25.0)	87Kr (1475.9)	2101.9	172Yb	2142.8 (1.4)	77Se (238.9)
2063.0 (1.8)	72Ga (145.1)	2103.6 (<0.1)	1900s (186.7)	2143.0 (1.7)	70Ga (508.4)
2063.0 (0.1)	204Tl (139.9)	2104.0 (4.7)	171Er (197.9)	2143.6 (0.9)	124Te (602.4)
2063.2 (7.8)	56Mn (26.6)	2105.1 (2.1)	92Zr (934.5)	2143.6 (1.2)	1900s (186.7)
2063.7 (0.1)	200Hg (367.9)	2106.8 (2.0)	68Zn (1077.4)	2143.6 (0.7)	55Cr (6246.4)
2063.7 (0.1)	143Nd (742.1)	2107.8 (0.4)	200Hg (367.9)	2144.7 (0.3)	68Zn (1077.4)
2065.5 (9.5)	58Fe (810.5)	2108.3 (0.1)	146Nd (7110.8)	2145.2 (1.6)	1880s (155.0)
2066.8 (0.3)	96Mo (778.3)	2108.3 (0.2)	143Nd (742.1)	2146.0 (17.4)	52V (125.1)
2067.1 (2.3)	57Fe (7631.6)	2109.1 (0.3)	156Gd (89.0)	2146.0 (<0.1)	71Ge (499.8)
2067.8 (3.7)	196Pt (356.1)	2110.0 (2.1)	184W (111.2)	2147.2 (0.4)	55Ni (6034.0)
2068.0 (2.0)	72Ga (145.1)	2110.4 (0.5)	77Se (238.9)	2147.3 (2.8)	56Mn (26.6)
2069.5 (0.1)	92Zr (934.5)	2111.0 (2.4)	174Yb (176.6)	2147.9 (0.1)	143Nd (742.1)
2069.6 (0.6)	1880s (155.0)	2111.1 (1.5)	1900s (186.7)	2149.1 (0.6)	156Gd (89.0)
2072.3 (0.5)	80Br (37.1)	2111.3 (0.8)	156Gd (89.0)	2149.1 (<0.1)	146Nd (7110.8)
2072.7 (<0.1)	144Nd (696.5)	2111.5 (2.9)	88Sr (1836.1)	2149.6	81Se
2072.8 (0.3)	75Se (286.6)	2112.1 (0.7)	96Mo (778.3)	2149.7 (3.7)	86Rb (557.0)
2074.6 (0.6)	77Se (238.9)	2112.2 (13.8)	116Sn (1293.5)	2150.3 (1.1)	196Pt (356.1)
2075.0 (1.6)	1900s (186.7)	2112.3 (0.6)	204Tl (139.9)	2151.7 (0.4)	96Mo (778.3)
2075.1 (8.3)	45Ca (174.3)	2112.5 (0.2)	143Nd (742.1)	2152.6 (1.3)	156Gd (89.0)
2075.3 (1.8)	74Ge (595.7)	2113.4 (1.4)	51Cr (749.0)	2153.4 (0.6)	75Se (286.6)
2075.6 (2.6)	103Ru (174.0)	2114.6 (0.3)	156Gd (89.0)	2153.7 (0.4)	92Zr (934.5)
2078.0 (1.0)	124Te (602.4)	2115.5	172Yb	2154.4 (0.4)	143Nd (742.1)
2078.3 (0.7)	55Cr (6246.4)	2115.6 (0.7)	196Pt (356.1)	2155.2 (0.9)	1880s (155.0)
2078.6 (<0.1)	156Gd (89.0)	2117.0 (1.9)	70Ga (508.4)	2156.4 (4.6)	105Ru (143.2)
2079.5 (0.4)	143Nd (742.1)	2117.0 (3.3)	205Pb (6731.5)	2156.8 (0.3)	143Nd (742.1)
2080.1 (0.4)	51Cr (749.0)	2118.4 (0.1)	200Hg (367.9)	2157.6 (<0.1)	146Nd (7110.8)
2080.3 (4.2)	136Ba (818.6)	2118.9 (<0.1)	1900s (186.7)	2158.0 (8.8)	59Fe (287.0)
2082.0 (0.6)	88Sr (1836.1)	2120.0 (4.4)	53Cr (7939.6)	2158.4 (2.5)	147Nd (314.7)
2082.0 (<0.1)	177Lu (150.4)	2120.2 (<0.1)	146Nd (7110.8)	2159.0 (<0.1)	51Cr (749.0)
2082.3 (1.1)	98Mo (787.4)	2121.0 (0.6)	55Cr (6246.4)	2159.1 (1.4)	56Mn (26.6)
2082.5 (<0.1)	144Nd (696.5)	2122.4 (29.0)	87Kr (1475.9)	2159.3 (0.3)	88Sr (1836.1)
2082.7 (4.7)	52V (125.1)	2122.5 (2.9)	56Mn (26.6)	2159.6 (4.2)	84Kr (881.8)
2082.9 (0.1)	200Hg (367.9)	2122.5 (2.4)	147Nd (314.7)	2161.4 (0.3)	200Hg (367.9)
2083.2 (<0.1)	146Nd (7110.8)	2123.9 (0.4)	200Hg (367.9)	2161.8 (6.9)	48Ti (983.7)
2083.3 (2.9)	174Yb (176.6)	2123.9 (9.6)	61Ni (7819.6)	2162.1 (3.8)	105Ru (143.2)
2083.7 (0.6)	55Cr (6246.4)	2125.6 (<0.1)	144Nd (696.5)	2162.1 (<0.1)	1900s (186.7)
2083.8 (0.9)	65Ni (6034.0)	2126.3 (0.4)	143Nd (742.1)	2162.8 (1.2)	78Se (613.8)
2084.0 (0.2)	143Nd (742.1)	2126.5 (0.3)	77Se (238.9)	2163.0 (0.8)	70Ga (508.4)
2084.2 (5.3)	62Ni (1172.8)	2127.6 (2.0)	105Ru (143.2)	2163.4 (0.9)	77Se (238.9)
2084.2 (0.4)	204Tl (139.9)	2127.7 (2.0)	156Gd (89.0)	2163.6 (3.2)	174Yb (176.6)
2084.4 (0.5)	1880s (155.0)	2128.9 (1.7)	136Ba (818.6)	2166.5 (0.4)	88Sr (1836.1)
2085.1 (<0.1)	1900s (186.7)	2129.5 (0.3)	204Tl (139.9)	2167.6 (0.5)	156Gd (89.0)
2086.8 (<0.1)	49Ti (1381.5)	2129.6 (1.6)	57Fe (7631.6)	2168.5 (<0.1)	146Nd (7110.8)
2086.8 (0.4)	75Se (286.6)	2129.9 (1.6)	46Sc (227.8)	2169.2 (2.9)	52V (125.1)
2087.4 (6.0)	174Yb (176.6)	2130.0 (3.7)	86Rb (557.0)	2170.5 (6.5)	174Yb (176.6)
2087.9 (0.6)	156Gd (89.0)	2131.9 (3.5)	1880s (155.0)	2170.9 (0.4)	156Gd (89.0)
2088.6 (2.1)	105Ru (143.2)	2132.0 (0.4)	77Se (238.9)	2171.6 (<0.1)	144Nd (696.5)
2088.8 (0.6)	77Se (238.9)	2132.4 (0.2)	96Mo (778.3)	2172.6 (0.3)	143Nd (742.1)
2090.4 (5.2)	56Mn (26.6)	2132.7 (<0.1)	144Nd (696.5)	2174.0 (0.7)	143Ce (4337.8)
2090.6 (0.9)	124Te (602.4)	2132.9 (1.0)	92Zr (934.5)	2176.0 (0.6)	98Mo (787.4)
2092.2 (1.4)	48Ti (983.7)	2133.7 (1.1)	143Nd (742.1)	2176.6 (6.0)	56Mn (26.6)
2092.4 (2.3)	105Ru (143.2)	2134.0 (1.4)	78Se (613.8)	2178.0 (<0.1)	45Ca (174.3)
2093.6 (0.4)	200Hg (367.9)	2135.1 (1.9)	184W (111.2)	2178.8 (<0.1)	156Gd (89.0)
2094.0 (0.6)	143Nd (742.1)	2135.1	172Yb	2180.3 (2.3)	158Gd (181.9)
2094.6 (0.5)	68Zn (1077.4)	2135.2 (0.5)	75Se (286.6)	2180.5 (1.0)	143Nd (742.1)

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV (% γ)	Nucleus (Strongest γ)	E γ keV (% γ)	Nucleus (Strongest γ)	E γ keV (% γ)	Nucleus (Strongest γ)
2180.6 (0.7)	156Gd (89.0)	2228.9 (<0.1)	1900s (186.7)	2282.0 (<0.1)	1900s (186.7)
2180.8 (0.4)	200Hg (367.9)	2231.3 (0.2)	143Ce (4337.8)	2282.1 (<0.1)	144Nd (696.5)
2181.2 (0.7)	124Te (602.4)	2233.9	172Yb	2283.0 (0.5)	200Hg (367.9)
2181.7 (0.4)	68Zn (1077.4)	2234.2 (0.7)	156Gd (89.0)	2283.9 (1.7)	78Se (613.8)
2183.1 (2.7)	56Mn (26.6)	2234.5 (<0.1)	146Nd (7110.8)	2284.2 (5.6)	184W (111.2)
2183.4 (<0.1)	1900s (186.7)	2238.5	172Yb	2295.0 (2.2)	142Pr (176.9)
2183.6 (4.8)	184W (111.2)	2238.6 (<0.1)	156Gd (89.0)	2286.0 (1.4)	1880s (155.0)
2184.0 (2.1)	196Pt (356.1)	2239.1 (22.1)	54Cr (8884.1)	2286.2 (1.2)	56Mn (26.6)
2184.2 (0.6)	77Se (238.9)	2240.4 (0.4)	78Se (613.8)	2286.6 (0.1)	143Nd (742.1)
2185.1 (<0.1)	144Nd (696.5)	2240.6 (6.3)	48Ti (983.7)	2288.3 (1.0)	1900s (186.7)
2186.0 (0.7)	143Nd (742.1)	2240.6 (0.3)	200Hg (367.9)	2288.5 (2.0)	142Pr (176.9)
2186.0 (0.7)	78Se (613.8)	2241.0 (74.6)	111Pd (4902.5)	2288.9 (5.9)	105Ru (143.2)
2186.5 (100.0)	91Zr (2186.5)	2241.8 (1.2)	56Mn (26.6)	2289.0 (3.3)	139Ba (627.3)
2186.8 (0.7)	156Gd (89.0)	2241.9 (0.9)	1900s (186.7)	2289.6 (0.1)	200Hg (367.9)
2187.9 (0.8)	196Pt (356.1)	2242.0 (5.0)	139Ba (627.3)	2289.6 (<0.1)	204Tl (139.9)
2188.7 (0.4)	200Hg (367.9)	2243.3 (2.4)	46Sc (227.8)	2289.7 (0.4)	62Ni (1172.8)
2189.9 (0.7)	77Se (238.9)	2244.0 (0.6)	136Ba (818.6)	2290.0 (17.4)	129Te (3721.8)
2190.3 (0.8)	143Ce (4337.8)	2244.1 (0.5)	143Ce (4337.8)	2291.2 (<0.1)	146Nd (7110.8)
2190.5 (0.8)	156Gd (89.0)	2244.6 (2.5)	142Pr (176.9)	2291.9 (<0.1)	156Gd (89.0)
2190.7 (<0.1)	144Nd (696.5)	2245.3 (<0.1)	144Nd (696.5)	2292.0 (<0.1)	144Nd (696.5)
2191.9 (1.9)	56Mn (26.6)	2245.9 (0.6)	143Nd (742.1)	2292.0 (0.5)	143Nd (742.1)
2192.1 (1.5)	1900s (186.7)	2246.0 (<0.1)	200Hg (367.9)	2293.2 (0.9)	156Gd (89.0)
2192.7 (0.8)	1880s (155.0)	2246.3 (0.7)	1880s (155.0)	2294.0 (1.7)	64Cu (7916.0)
2194.4 (0.2)	200Hg (367.9)	2251.1 (0.6)	77Se (238.9)	2294.8 (6.4)	56Mn (26.6)
2194.7 (18.6)	171Yb (6614.7)	2251.4 (0.4)	200Hg (367.9)	2295.1 (0.2)	143Nd (742.1)
2197.2 (0.7)	143Nd (742.1)	2252.5 (1.4)	88Sr (1836.1)	2295.2 (33.0)	87Kr (1475.9)
2198.5 (3.6)	174Yb (176.6)	2252.9 (<0.1)	156Gd (89.0)	2296.3 (0.8)	172Yb
2198.9 (41.5)	51Ti (1166.6)	2253.9 (<0.1)	144Nd (696.5)	2296.3 (0.8)	200Hg (367.9)
2199.9 (0.9)	78Se (613.8)	2254.8 (1.2)	56Mn (26.6)	2297.1 (0.7)	1900s (186.7)
2200.2 (1.5)	84Kr (881.8)	2254.8 (0.5)	1900s (186.7)	2298.8 (0.6)	88Sr (1836.1)
2201.0 (1.4)	136Ba (818.6)	2255.2 (0.5)	124Te (602.4)	2301.4 (13.7)	62Ni (1172.8)
2201.8 (1.1)	143Ce (4337.8)	2256.2 (0.4)	143Nd (742.1)	2302.3 (1.9)	105Ru (143.2)
2202.0 (1.2)	55Cr (6246.4)	2256.2 (1.5)	138Ba (1435.6)	2304.5 (<0.1)	1900s (186.7)
2202.3 (0.3)	156Gd (89.0)	2257.2 (0.2)	68Zn (1077.4)	2304.7 (<0.1)	200Hg (367.9)
2202.9 (<0.1)	1900s (186.7)	2257.6 (1.3)	142Pr (176.9)	2305.4 (<0.1)	156Gd (89.0)
2203.4 (2.5)	88Sr (1836.1)	2258.0 (1.2)	77Se (238.9)	2305.5 (0.4)	143Ce (4337.8)
2204.5 (<0.1)	144Nd (696.5)	2258.6 (2.6)	184W (111.2)	2305.8 (0.8)	143Nd (742.1)
2204.6 (0.1)	200Hg (367.9)	2258.7 (0.3)	98Mo (787.4)	2306.7 (1.1)	1880s (155.0)
2204.9 (0.4)	156Gd (89.0)	2259.5 (0.5)	200Hg (367.9)	2307.0 (0.6)	77Se (238.9)
2205.3 (5.2)	56Mn (26.6)	2260.3 (1.5)	177Yb (151.6)	2307.8 (2.8)	105Ru (143.2)
2205.4 (0.1)	124Te (602.4)	2261.0 (1.8)	56Mn (26.6)	2310.0 (1.1)	56Mn (26.6)
2207.0 (<0.1)	146Nd (7110.8)	2261.3 (5.0)	1880s (155.0)	2310.8 (<0.1)	156Gd (89.0)
2208.0 (<0.1)	138Ba (1435.6)	2261.5 (1.5)	1900s (186.7)	2311.4 (5.1)	196Pt (356.1)
2208.6 (0.3)	96Mo (778.3)	2263.1 (<0.1)	144Nd (696.5)	2311.5 (0.5)	80Br (37.1)
2209.4 (<0.1)	146Nd (7110.8)	2263.8 (1.1)	77Se (238.9)	2311.6 (<0.1)	144Nd (696.5)
2209.5 (4.3)	147Nd (314.7)	2263.8	172Yb	2312.0 (10.2)	69Zn (1008.0)
2209.7 (4.9)	68Zn (1077.4)	2265.0 (<0.1)	156Gd (89.0)	2315.0 (4.1)	52V (125.1)
2211.2 (<0.1)	144Nd (696.5)	2265.9 (<0.1)	63Ni (6838.2)	2315.4 (3.1)	147Nd (314.7)
2211.3 (9.0)	56Mn (26.6)	2266.1 (1.4)	74Ge (595.7)	2316.0 (<0.1)	1900s (186.7)
2211.6 (2.0)	156Gd (89.0)	2266.8 (<0.1)	146Nd (7110.8)	2319.4 (1.1)	78Se (613.8)
2211.9 (1.3)	1900s (186.7)	2267.6 (2.5)	184W (111.2)	2319.5 (0.6)	204Tl (139.9)
2212.0 (<0.1)	50Ti (1555.0)	2267.8 (<0.1)	1900s (186.7)	2320.2 (1.7)	56Mn (26.6)
2212.1 (1.1)	77Se (238.9)	2269.4 (0.3)	55Cr (6246.4)	2320.9 (27.8)	53Cr (7939.6)
2212.1 (1.1)	143Nd (742.1)	2270.0 (<0.1)	156Gd (89.0)	2321.6 (<0.1)	144Nd (696.5)
2214.0 (0.6)	75Se (286.6)	2270.6 (<0.1)	144Nd (696.5)	2322.0 (1.7)	143Nd (742.1)
2214.1 (1.3)	156Gd (89.0)	2271.1 (2.6)	52V (125.1)	2323.2 (0.1)	124Te (602.4)
2214.2 (0.7)	74Ge (595.7)	2271.2 (0.2)	143Ce (4337.8)	2323.5 (0.3)	200Hg (367.9)
2214.6 (0.1)	124Te (602.4)	2271.5 (1.6)	200Hg (367.9)	2326.1 (0.4)	143Nd (742.1)
2214.8 (2.0)	1880s (155.0)	2271.7 (0.3)	143Nd (742.1)	2326.9	172Yb
2217.3 (1.1)	77Se (238.9)	2273.3 (19.7)	58Fe (810.5)	2327.0 (0.7)	78Se (613.8)
2218.0 (1.4)	78Se (613.8)	2274.2 (0.7)	77Se (238.9)	2327.7 (<0.1)	1900s (186.7)
2218.1 (40.0)	138Ba (1435.6)	2276.0 (0.3)	143Ce (4337.8)	2328.1 (1.3)	52Zr (934.5)
2220.3 (<0.1)	156Gd (89.0)	2276.4 (3.8)	88Sr (1836.1)	2328.2 (4.6)	184W (111.2)
2223.0 (5.9)	71Ge (499.8)	2276.6 (<0.1)	156Gd (89.0)	2328.3 (0.6)	77Se (238.9)
2223.5 (0.3)	146Nd (7110.8)	2277.0 (0.2)	75Se (286.6)	2328.5 (<0.1)	204Tl (139.9)
2223.8 (11.9)	103Ru (174.0)	2277.7 (0.4)	143Nd (742.1)	2328.7 (0.9)	55Cr (6246.4)
2224.7 (7.7)	116Sn (1293.5)	2278.1 (<0.1)	146Nd (7110.8)	2329.6 (3.1)	46Sc (227.8)
2224.8 (<0.1)	136Ba (818.6)	2279.2 (<0.1)	51Cr (749.0)	2331.2 (10.7)	56Mn (26.6)
2227.8 (2.0)	143Nd (742.1)	2280.5 (0.4)	98Mo (787.4)	2331.5 (11.0)	87Kr (1475.9)
2228.1 (0.8)	156Gd (89.0)	2280.9 (1.4)	143Nd (742.1)	2332.1 (1.3)	105Ru (143.2)

Table I. CAPTURE γ 's - energy sorted (cont.)

By keV (γ)	Nucleus (Strongest γ)	By keV (γ)	Nucleus (Strongest γ)	By keV (γ)	Nucleus (Strongest γ)
2332.4 (0.9)	74Ge (595.7)	2386.1 (0.9)	124Te (602.4)	2442.6 (0.5)	200Hg (367.9)
2334.8 (0.7)	196Pt (356.1)	2389.0 (2.9)	174Yb (176.6)	2442.8 (1.3)	1880s (155.0)
2335.2 (0.3)	88Sr (1836.1)	2389.0 (0.4)	156Gd (89.0)	2443.1 (1.2)	56Mn (26.6)
2335.2 (<0.1)	156Gd (89.0)	2389.7 (1.8)	184W (111.2)	2443.4 (0.8)	143Nd (742.1)
2336.3 (0.7)	105Ru (143.2)	2390.0 (<0.1)	144Nd (696.5)	2443.4 (0.9)	1900s (186.7)
2336.4 (0.9)	1880s (155.0)	2390.2 (0.3)	88Zn (1077.4)	2444.9 (0.6)	55Cr (6246.4)
2338.3 (0.3)	143Nd (742.1)	2390.2 (1.3)	78Se (613.8)	2445.3 (0.6)	196Pt (356.1)
2338.4 (3.9)	56Mn (26.6)	2390.4 (0.2)	143Nd (742.1)	2446.8 (0.6)	143Ce (4337.8)
2340.9 (0.4)	92Zr (934.5)	2391.4 (4.1)	88Sr (1836.1)	2447.0 (<0.1)	144Nd (696.5)
2342.6 (2.2)	56Mn (26.6)	2392.5 (1.8)	77Se (238.9)	2447.3 (0.2)	92Zr (934.5)
2344.0 (19.1)	69Zn (1008.0)	2392.5 (2.4)	147Nd (314.7)	2448.0 (1.6)	171Er (197.9)
2344.1 (0.4)	196Pt (356.1)	2392.7 (2.2)	105Ru (143.2)	2449.4 (2.5)	142Pr (176.9)
2344.6 (<0.1)	144Nd (696.5)	2393.0 (<0.1)	1900s (186.7)	2449.8 (0.1)	200Hg (367.9)
2344.8 (0.1)	124Te (602.4)	2393.2 (1.6)	196Pt (356.1)	2451.8 (5.3)	105Ru (143.2)
2345.6 (5.9)	62Ni (1172.8)	2394.0 (1.0)	1980s (155.0)	2451.9 (1.2)	56Mn (26.6)
2346.1 (1.0)	156Gd (89.0)	2396.4 (1.6)	56Mn (26.6)	2453.1 (0.2)	124Te (602.4)
2346.4 (<0.1)	204Tl (139.9)	2397.3 (<0.1)	204Tl (139.9)	2453.2 (0.6)	143Ce (4337.8)
2346.5 (0.2)	200Hg (367.9)	2398.4 (1.4)	105Ru (143.2)	2454.3 (<0.1)	1900s (186.7)
2347.4 (1.3)	68Zn (1077.4)	2400.5 (0.9)	65Ni (6034.0)	2454.9 (0.6)	55Cr (6246.4)
2347.4 (1.3)	138Ba (1435.6)	2401.3 (23.6)	171Yb (6614.7)	2457.5 (1.1)	106Pd (513.0)
2347.6 (0.6)	156Gd (89.0)	2401.5	172Yb	2457.8 (1.1)	55Cr (6246.4)
2348.0 (2.5)	1880s (155.0)	2401.6 (0.3)	143Nd (742.1)	2458.4 (2.9)	184W (111.2)
2348.2 (31.0)	87Kr (1475.9)	2401.9 (0.8)	96Mo (778.3)	2458.6 (<0.1)	204Tl (139.9)
2348.9 (2.9)	51Cr (749.0)	2401.9 (0.2)	200Hg (367.9)	2459.1 (0.3)	156Gd (89.0)
2348.9 (0.2)	143Nd (742.1)	2402.1 (0.6)	156Gd (89.0)	2459.8 (0.5)	143Nd (742.1)
2350.0 (3.1)	52V (125.1)	2403.3 (1.1)	45Ca (174.3)	2459.8 (<0.1)	146Nd (7110.8)
2350.8 (2.5)	142Pr (176.9)	2403.9 (0.2)	143Nd (742.1)	2460.0 (1.1)	77Se (238.9)
2351.0 (4.9)	71Ge (499.8)	2404.8 (2.2)	147Nd (314.7)	2461.1 (1.5)	1880s (155.0)
2352.5 (1.6)	86Rb (557.0)	2405.0 (7.9)	46Se (227.8)	2462.6 (0.2)	200Hg (367.9)
2352.8 (1.2)	68Zn (1077.4)	2405.2 (0.3)	75Se (286.7)	2463.0 (0.3)	143Nd (742.1)
2353.1 (0.3)	63Ni (6838.2)	2405.5 (0.7)	1900s (186.7)	2463.9 (0.2)	55Cr (6246.4)
2353.8 (0.4)	143Nd (742.1)	2405.7 (1.9)	56Mn (26.6)	2464.0 (0.8)	70Ga (508.4)
2355.2 (2.1)	142Pr (176.9)	2406.2 (0.3)	61Ni (7819.6)	2465.2 (0.4)	156Gd (89.0)
2356.9 (1.0)	156Gd (89.0)	2407.0 (1.7)	171Er (197.9)	2466.8 (1.7)	47Ca (2013.6)
2357.1 (0.9)	105Ru (143.2)	2407.5 (9.0)	142Pr (176.9)	2466.9 (0.9)	58Fe (810.5)
2357.3 (0.7)	74Ge (595.7)	2408.6 (0.1)	55Cr (6246.4)	2467.7 (1.1)	143Nd (742.1)
2359.6 (<0.1)	1900s (186.7)	2410.0 (0.4)	70Ga (508.4)	2468.0 (5.9)	55Fe (9297.8)
2360.0 (1.1)	77Se (238.9)	2410.9 (3.8)	52V (125.1)	2468.0 (1.0)	171Er (197.9)
2361.3 (0.7)	156Gd (89.0)	2412.5 (1.0)	156Gd (89.0)	2468.0 (0.1)	200Hg (367.9)
2363.0 (0.5)	143Nd (742.1)	2413.2 (1.7)	143Nd (742.1)	2468.3 (1.6)	142Pr (176.9)
2363.1 (1.0)	156Gd (89.0)	2415.2 (2.5)	45Ca (174.3)	2468.5 (1.6)	57Fe (7631.6)
2364.9 (1.1)	1880s (155.0)	2416.2 (1.9)	143Nd (742.1)	2469.6 (4.1)	196Pt (356.1)
2365.2 (0.1)	200Hg (367.9)	2416.5 (0.7)	77Se (238.9)	2471.3 (1.8)	56Mn (26.6)
2366.0 (1.6)	105Ru (143.2)	2417.4 (0.6)	1900s (186.7)	2475.0 (2.6)	72Ga (145.1)
2367.2 (3.5)	187W (5261.8)	2418.6 (2.8)	68Zn (1077.4)	2475.7 (1.6)	86Rb (557.0)
2367.6 (0.5)	88Sr (1836.1)	2419.0 (1.0)	72Ga (145.1)	2475.8 (0.2)	200Hg (367.9)
2368.0 (<0.1)	144Nd (696.5)	2419.6 (0.4)	156Gd (89.0)	2476.3 (1.0)	1900s (186.7)
2368.3 (0.2)	143Nd (742.1)	2420.0 (7.0)	52V (125.1)	2476.5 (0.7)	78Se (613.8)
2368.4 (2.7)	56Mn (26.6)	2420.0 (1.5)	171Er (197.9)	2478.7 (1.4)	143Nd (742.1)
2368.8 (0.7)	74Ge (595.7)	2420.8 (0.7)	143Nd (742.1)	2479.0 (4.5)	171Yb (6614.7)
2369.5 (<0.1)	146Nd (7110.8)	2423.7 (0.3)	200Hg (367.9)	2479.1 (1.8)	142Pr (176.9)
2370.0 (0.3)	200Hg (367.9)	2424.0 (0.2)	156Gd (89.0)	2480.2 (0.2)	200Hg (367.9)
2370.4 (2.5)	184W (111.2)	2428.2 (1.8)	52V (125.1)	2481.2 (3.5)	187W (5261.8)
2370.8 (0.9)	1900s (186.7)	2428.6 (1.3)	56Mn (26.6)	2481.3 (0.7)	77Se (238.9)
2371.4 (5.4)	147Nd (314.7)	2428.6 (0.5)	156Gd (89.0)	2483.1 (0.3)	143Nd (742.1)
2372.1 (1.6)	56Mn (26.6)	2428.6 (0.1)	204Tl (139.9)	2484.5 (1.1)	106Pd (513.0)
2372.2 (0.1)	124Te (602.4)	2428.8 (<0.1)	144Nd (696.5)	2485.3 (0.2)	200Hg (367.9)
2373.0 (<0.1)	144Nd (696.5)	2429.1 (1.0)	196Pt (356.1)	2485.6	81Se
2374.7 (7.9)	147Nd (314.7)	2432.2 (0.7)	143Nd (742.1)	2485.7 (14.4)	233Th (3473.0)
2375.0 (6.2)	48Ti (983.7)	2433.5 (3.0)	58Fe (810.5)	2487.6 (0.4)	196Pt (356.1)
2375.0 (1.2)	105Ru (143.2)	2433.6 (0.2)	143Ce (4337.8)	2487.6 (1.7)	138Ba (1435.6)
2376.0 (0.9)	196Pt (356.1)	2436.1 (5.6)	142Pr (176.9)	2488.4 (0.1)	96Mo (778.3)
2376.7 (6.8)	51Cr (749.0)	2436.9 (1.1)	92Zr (934.5)	2489.7 (0.9)	143Nd (742.1)
2376.9 (0.7)	1900s (186.7)	2436.9 (1.9)	147Nd (314.7)	2490.5 (0.1)	124Te (602.4)
2377.3 (0.5)	96Mo (778.3)	2437.8 (2.4)	56Mn (26.6)	2490.6 (1.1)	58Fe (910.5)
2378.0 (6.4)	69Zn (1008.0)	2437.9 (0.6)	143Nd (742.1)	2491.8 (<0.1)	156Gd (89.0)
2378.5 (0.3)	156Gd (89.0)	2438.6 (1.5)	138Ba (1435.6)	2493.6 (0.7)	143Nd (742.1)
2379.2 (0.1)	63Ni (6838.2)	2433.9 (0.1)	68Zn (1077.4)	2494.5 (0.5)	143Ce (4337.8)
2379.5 (2.9)	55Cr (6246.4)	2440.4 (5.0)	105Ru (143.2)	2495.0 (1.1)	77Se (238.9)
2382.3 (0.6)	143Nd (742.1)	2441.5 (0.3)	124Te (602.4)	2496.5 (2.9)	147Nd (314.7)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)
2497.4 (0.1)	156Gd (89.0)	2557.8 (0.1)	204Tl (139.9)	2610.5 (<0.1)	156Gd (89.0)
2497.4 (0.1)	204Tl (139.9)	2557.9 (1.0)	56Mn (26.6)	2610.6 (2.4)	56Mn (26.6)
2500.2 (1.0)	138Ba (1435.6)	2558.1 (0.6)	106Pd (513.0)	2611.0 (0.3)	200Hg (367.9)
2502.2 (0.3)	96Mo (778.3)	2558.2 (11.3)	233Th (3473.0)	2613.0 (0.7)	70Ga (508.4)
2502.6 (0.1)	200Hg (367.9)	2558.2 (1.8)	54Cr (8084.1)	2614.3 (1.1)	196Pt (356.1)
2503.7 (16.8)	233Th (3473.0)	2559.0 (0.1)	200Hg (367.9)	2614.5 (2.6)	77Se (238.9)
2504.5 (<0.1)	144Nd (696.5)	2561.4 (1.1)	56Mn (26.6)	2614.8 (0.2)	68Zn (1077.4)
2504.8 (0.3)	143Nd (742.1)	2562.3 (7.5)	142Pr (176.9)	2614.8 (0.3)	143Nd (742.1)
2506.3 (0.8)	68Zn (1077.4)	2563.0 (1.1)	77Se (238.9)	2615.7 (0.7)	88Sr (1836.1)
2506.5 (0.6)	196Pt (356.1)	2564.0 (1.7)	171Er (197.9)	2617.4 (0.4)	124Te (602.4)
2507.6 (0.5)	96Mo (778.3)	2564.8 (0.2)	200Hg (367.9)	2618.0 (3.6)	55Fe (9297.8)
2507.6 (<0.1)	156Gd (89.0)	2567.0 (3.0)	139Ba (627.3)	2618.4 (0.8)	138Ba (1435.6)
2508.5 (1.9)	56Mn (26.6)	2568.1 (0.6)	143Ce (4337.8)	2619.4 (2.2)	142Pr (176.9)
2509.3 (0.6)	78Se (613.8)	2569.1 (0.4)	200Hg (367.9)	2620.9 (0.3)	200Hg (367.9)
2512.7 (0.6)	68Zn (1077.4)	2569.9 (0.5)	74Ge (595.7)	2621.3 (0.7)	54Cr (8884.1)
2512.9 (0.3)	74Ge (595.7)	2570.0	81Se	2621.5 (0.1)	204Tl (139.9)
2513.1 (0.2)	200Hg (367.9)	2570.4 (2.1)	86Rb (557.0)	2621.8 (0.2)	74Ge (595.7)
2513.5 (2.4)	58Fe (810.5)	2571.2 (0.2)	143Nd (742.1)	2622.7 (1.7)	52V (125.1)
2515.0 (1.8)	56Mn (26.6)	2573.4 (0.1)	204Tl (139.9)	2622.7 (3.2)	56Mn (26.6)
2515.0 (<0.1)	71Ge (499.8)	2574.4 (<0.1)	156Gd (89.0)	2623.0 (<0.1)	50Ti (1555.0)
2515.0 (0.6)	141Ce (662.0)	2576.5 (0.2)	55Cr (6246.4)	2624.0 (1.1)	77Se (238.9)
2515.0 (1.5)	171Er (197.9)	2577.1 (3.3)	103Ru (174.0)	2625.0 (8.2)	171Yb (6614.7)
2515.5 (1.5)	52V (125.1)	2577.8 (1.7)	88Sr (1836.1)	2625.5 (0.2)	200Hg (367.9)
2515.6 (<0.1)	204Tl (139.9)	2578.0 (2.8)	105Ru (143.2)	2626.9 (<0.1)	156Gd (89.0)
2515.8 (0.5)	80Br (37.1)	2578.4 (0.3)	200Hg (367.9)	2627.0 (0.7)	171Er (197.9)
2516.0 (0.1)	124Te (602.4)	2579.1 (<0.1)	51Cr (749.0)	2627.4 (0.3)	68Zn (1077.4)
2517.7 (0.8)	92Zr (934.5)	2579.4 (6.5)	129Te (3721.8)	2630.1 (13.7)	233Th (3473.0)
2518.2 (1.5)	147Nd (314.7)	2580.5 (0.2)	114Cd (1660.3)	2630.4 (1.8)	147Nd (314.7)
2520.0 (<0.1)	50Ti (1555.0)	2581.0 (1.1)	70Ga (508.4)	2630.7 (22.0)	238Np (5352.0)
2521.8 (6.1)	56Mn (26.6)	2581.6 (2.6)	138Ba (1435.6)	2631.4 (0.2)	143Nd (742.1)
2522.1 (2.1)	147Nd (314.7)	2582.0 (1.7)	56Mn (26.6)	2631.9 (0.2)	68Zn (1077.4)
2522.5 (8.5)	139Ba (627.3)	2582.0 (1.1)	142Pr (176.9)	2633.3 (0.3)	75Se (286.6)
2523.0 (1.3)	171Er (197.9)	2583.6 (0.7)	62Ni (1172.8)	2633.4 (0.2)	143Nd (742.1)
2524.3 (0.2)	200Hg (367.9)	2584.3 (5.6)	187W (5261.8)	2633.5 (0.1)	204Tl (139.9)
2524.8 (14.1)	233Th (3473.0)	2585.1 (0.6)	74Ge (595.7)	2634.4 (9.6)	48Ti (983.7)
2524.9 (26.9)	129Te (3721.8)	2585.4 (0.4)	96Mo (778.3)	2635.3 (11.8)	46Sc (227.8)
2525.8 (<0.1)	63Ni (6838.2)	2585.7 (2.6)	86Rb (557.0)	2635.6 (0.3)	124Te (602.4)
2526.0 (0.6)	80Br (37.1)	2586.3 (3.2)	116Sn (1293.5)	2636.2 (9.8)	233Th (3473.0)
2526.2 (<0.1)	144Nd (696.5)	2587.2 (0.4)	68Zn (1077.4)	2637.0 (0.3)	68Zn (1077.4)
2526.6 (<0.1)	156Gd (89.0)	2590.5 (1.8)	77Se (238.9)	2637.8 (1.1)	143Nd (742.1)
2526.9 (1.9)	196Pt (356.1)	2590.5 (0.5)	200Hg (367.9)	2638.1 (0.1)	204Tl (139.9)
2527.0 (1.1)	77Se (238.9)	2590.6 (<0.1)	156Gd (89.0)	2639.4 (10.2)	138Ba (1435.6)
2527.3 (0.2)	143Nd (742.1)	2591.0 (12.0)	233Th (3473.0)	2639.7 (0.4)	96Mo (778.3)
2527.7 (1.5)	57Fe (7631.6)	2591.3 (0.5)	68Zn (1077.4)	2639.8 (0.4)	61Ni (7819.6)
2528.0 (<0.1)	71Ge (499.8)	2594.1 (8.0)	139Ba (627.3)	2639.9 (2.8)	200Hg (367.9)
2528.7 (0.4)	200Hg (367.9)	2594.5 (2.8)	56Mn (26.6)	2641.2 (18.9)	233Th (3473.0)
2529.8 (0.4)	143Nd (742.1)	2595.3 (0.2)	196Pt (356.1)	2644.1 (0.4)	56Mn (26.6)
2530.8 (1.4)	142Pr (176.9)	2595.5 (0.6)	80Br (37.1)	2645.0 (1.1)	171Er (197.9)
2534.0 (<0.1)	71Ge (499.8)	2596.0 (2.0)	171Er (197.9)	2645.1 (0.6)	143Nd (742.1)
2534.1 (2.2)	147Nd (314.7)	2596.5 (0.7)	143Ce (4337.8)	2646.0 (<0.1)	156Gd (89.0)
2534.6 (1.3)	56Mn (26.6)	2596.9 (18.9)	233Th (3473.0)	2648.1 (0.8)	68Zn (1077.4)
2537.0 (3.0)	139Ba (627.3)	2597.7 (5.9)	142Pr (176.9)	2648.9 (0.3)	200Hg (367.9)
2537.1 (0.4)	92Zr (934.5)	2598.1 (1.1)	86Rb (557.0)	2651.5 (0.3)	75Se (286.6)
2538.0 (1.3)	143Ce (4337.8)	2598.2 (<0.1)	156Gd (89.0)	2652.1 (0.6)	68Zn (1077.4)
2538.0 (0.2)	200Hg (367.9)	2598.6 (2.1)	56Mn (26.6)	2652.4 (1.5)	55Cr (6246.4)
2540.9 (0.3)	63Ni (6838.2)	2598.9 (0.1)	51Cr (749.0)	2652.7 (0.5)	143Nd (742.1)
2542.4 (11.8)	233Th (3473.0)	2599.0 (1.1)	77Se (238.9)	2653.4 (24.0)	233Th (3473.0)
2544.5 (0.2)	200Hg (367.9)	2601.3 (0.2)	124Te (602.4)	2653.7 (4.2)	147Nd (314.7)
2545.0 (1.3)	171Er (197.9)	2601.5 (1.6)	147Nd (314.7)	2654.0 (<0.1)	156Gd (89.0)
2545.4 (13.7)	233Th (3473.0)	2601.8 (5.2)	54Cr (8884.1)	2655.0 (0.7)	171Er (197.9)
2545.7 (0.3)	56Mn (26.6)	2606.7 (0.1)	200Hg (367.9)	2657.6 (1.1)	143Ce (4337.8)
2546.8 (0.2)	143Nd (742.1)	2606.7 (12.7)	233Th (3473.0)	2658.5 (1.5)	177Yb (151.6)
2547.0 (0.5)	68Zn (1077.4)	2607.8 (0.1)	143Nd (742.1)	2658.9 (<0.1)	146Nd (7110.8)
2550.2 (1.8)	105Ru (143.2)	2608.3 (1.2)	45Ca (174.3)	2659.5 (23.5)	233Th (3473.0)
2551.9 (14.4)	233Th (3473.0)	2608.5 (1.1)	143Ce (4337.8)	2660.0 (2.2)	114Cd (1660.3)
2552.6 (1.0)	114Cd (1660.3)	2608.9 (2.4)	147Nd (314.7)	2661.3 (1.4)	142Pr (176.9)
2554.5 (2.0)	147Nd (314.7)	2608.9 (1.0)	138Ba (1435.6)	2662.3 (0.2)	143Nd (742.1)
2556.2 (0.3)	143Nd (742.1)	2609.0 (1.0)	72Ga (145.1)	2663.0 (0.7)	77Se (238.9)
2557.1 (<0.1)	144Nd (696.5)	2610.0 (14.6)	233Th (3473.0)	2663.8 (2.0)	96Mo (778.3)
2557.5 (<0.1)	156Gd (89.0)	2610.3 (0.2)	68Zn (1077.4)	2664.8 (2.4)	147Nd (314.7)

Table I. CAPTURE γ 's - energy sorted (cont.)

Energy (keV) (χ^2/ν)	Nucleus (Strongest γ)	Energy (keV) (χ^2/ν)	Nucleus (Strongest γ)	Energy (keV) (χ^2/ν)	Nucleus (Strongest γ)
2665.2 (0.1)	204Tl (139.9)	2721.6 (1.1)	77Se (238.9)	2792.7 (1.6)	52V (125.1)
2665.5 (0.4)	196Pt (356.1)	2721.9 (7.7)	57Fe (7631.6)	2793.0 (<0.1)	146Nd (7110.8)
2667.7 (4.3)	43Ca (174.3)	2726.0 (10.9)	58Fe (810.5)	2794.5 (0.2)	200Hg (367.9)
2670.0 (2.3)	55Fe (9297.8)	2727.1 (2.5)	142Pr (176.9)	2795.3 (9.6)	233Th (3473.0)
2670.4 (7.8)	53Cr (7939.6)	2727.2 (0.3)	200Hg (367.9)	2795.5 (2.1)	47Ca (2013.6)
2671.6 (<0.1)	156Gd (89.0)	2727.6 (2.5)	187W (5261.8)	2796.2 (15.8)	147Nd (314.7)
2671.8 (15.8)	233Th (3473.0)	2728.6 (0.3)	143Nd (742.1)	2797.0 (1.0)	171Er (197.9)
2672.2 (0.3)	75Se (286.6)	2729.4 (0.6)	56Mn (26.6)	2798.4 (0.3)	196Pt (356.1)
2672.8 (0.5)	143Nd (742.1)	2730.0 (0.2)	68Zn (1077.4)	2799.1 (3.8)	45Ca (174.3)
2674.8 (1.9)	78Se (613.8)	2732.8 (15.8)	233Th (3473.0)	2799.3 (1.9)	105Ru (143.2)
2676.0 (0.3)	143Nd (742.1)	2733.1 (2.2)	184W (111.2)	2799.4 (2.4)	62Ni (1172.8)
2676.0 (1.1)	77Se (238.9)	2734.0 (<0.1)	185Dy (108.2)	2802.2 (0.6)	56Mn (26.6)
2677.7 (4.4)	56Mn (26.6)	2734.1 (0.7)	88Sr (1836.1)	2802.3 (<0.1)	143Nd (742.1)
2677.7 (0.4)	88Sr (1836.1)	2735.3 (1.1)	196Pt (356.1)	2806.5 (0.2)	200Hg (367.9)
2681.9 (1.0)	52V (125.1)	2735.8 (0.2)	200Hg (367.9)	2806.5 (2.5)	147Nd (314.7)
2682.8 (1.5)	57Fe (7631.6)	2736.4 (<0.1)	156Gd (89.0)	2806.6 (0.7)	56Mn (26.6)
2682.9 (<0.1)	156Gd (89.0)	2737.7 (1.1)	68Zn (1077.4)	2806.9 (0.1)	204Tl (139.9)
2683.8 (1.3)	143Nd (742.1)	2738.3 (0.4)	143Nd (742.1)	2807.3 (21.1)	233Th (3473.0)
2685.6 (<0.1)	146Nd (7110.8)	2738.9 (3.0)	187W (5261.8)	2808.4 (1.5)	77Se (238.9)
2686.5 (2.4)	136Ba (818.6)	2739.7 (10.3)	233Th (3473.0)	2809.1 (0.5)	124Te (602.4)
2687.0 (1.6)	55Cr (6246.4)	2740.3 (0.4)	56Mn (26.6)	2810.2 (0.4)	143Nd (742.1)
2688.5 (2.1)	142Pr (176.9)	2742.7 (0.1)	200Hg (367.9)	2814.2 (1.2)	105Ru (143.2)
2688.9 (10.8)	233Th (3473.0)	2743.3 (0.7)	143Nd (742.1)	2814.4 (0.2)	68Zn (1077.4)
2689.6 (1.9)	105Ru (143.2)	2743.5 (1.0)	142Pr (176.9)	2815.6 (6.5)	233Th (3473.0)
2690.0 (<0.1)	165Dy (108.2)	2744.6 (0.4)	74Ge (595.7)	2815.9 (<0.1)	204Tl (139.9)
2690.7 (2.9)	184W (111.2)	2744.8 (11.8)	233Th (3473.0)	2817.0 (<0.1)	156Gd (89.0)
2691.1 (0.4)	143Nd (742.1)	2746.3 (1.5)	105Ru (143.2)	2817.4 (0.7)	56Mn (26.6)
2691.3 (<0.1)	146Nd (7110.8)	2746.9 (3.1)	124Te (602.4)	2818.0 (1.6)	171Er (197.9)
2693.1 (0.8)	74Ge (595.7)	2747.0 (0.9)	171Er (197.9)	2818.6 (1.0)	200Hg (367.9)
2693.8 (3.2)	92Zr (934.5)	2748.0 (<0.1)	156Gd (89.0)	2820.0 (2.9)	58Fe (810.5)
2694.2 (<0.1)	156Gd (89.0)	2748.9 (1.5)	90Y (776.7)	2820.8 (1.1)	57Fe (7631.6)
2695.0 (0.1)	200Hg (367.9)	2749.0 (1.1)	196Pt (356.1)	2821.4 (0.3)	68Zn (1077.4)
2695.8 (0.2)	68Zn (1077.4)	2749.4 (1.1)	77Se (238.9)	2822.0 (16.3)	233Th (3473.0)
2696.3 (4.5)	147Nd (314.7)	2751.0 (<0.1)	165Dy (108.2)	2822.7 (0.2)	143Nd (742.1)
2696.4 (1.7)	56Mn (26.6)	2751.1 (0.6)	57Fe (7631.6)	2824.0 (11.2)	140La (5097.9)
2696.8 (0.1)	63Ni (6838.2)	2751.8 (<0.1)	204Tl (139.9)	2824.4 (2.2)	196Pt (356.1)
2697.3 (0.8)	57Fe (7631.6)	2755.1 (0.3)	74Ge (595.7)	2824.5 (0.3)	143Nd (742.1)
2697.3 (<0.1)	204Tl (139.9)	2756.0 (0.2)	68Zn (1077.4)	2824.7 (0.2)	68Zn (1077.4)
2697.4 (9.5)	55Cr (6246.4)	2756.2 (0.3)	200Hg (367.9)	2824.9 (24.5)	233Th (3473.0)
2697.6 (0.8)	143Nd (742.1)	2758.0 (0.9)	88Sr (1836.1)	2825.0 (0.8)	171Er (197.9)
2699.0 (0.5)	70Ga (508.4)	2759.7 (4.2)	187W (5261.8)	2825.1 (2.4)	177Yb (151.6)
2699.3 (0.1)	200Hg (367.9)	2759.9 (8.6)	233Th (3473.0)	2827.3 (1.7)	52V (125.1)
2699.5 (0.2)	68Zn (1077.4)	2760.2 (1.5)	147Nd (314.7)	2827.4 (0.2)	200Hg (367.9)
2700.7 (0.7)	74Ge (595.7)	2760.9 (1.7)	84Kr (881.8)	2829.6 (1.0)	143Nd (742.1)
2701.2 (5.7)	147Nd (314.7)	2761.0 (<0.1)	156Gd (89.0)	2830.0 (1.2)	70Ga (508.4)
2703.2 (20.1)	233Th (3473.0)	2761.0 (0.9)	171Er (197.9)	2830.3 (<0.1)	146Nd (7110.8)
2703.4 (<0.1)	156Gd (89.0)	2762.8 (2.0)	52V (125.1)	2831.7 (0.9)	143Ce (4337.8)
2703.9 (4.1)	184W (111.2)	2763.5 (0.1)	61Ni (7819.6)	2831.8 (0.2)	200Hg (367.9)
2704.6 (0.2)	200Hg (367.9)	2764.0 (0.2)	200Hg (367.9)	2832.1 (8.4)	187W (5261.8)
2705.0 (<0.1)	165Dy (108.2)	2764.1 (0.6)	56Mn (26.6)	2832.9 (2.2)	56Mn (26.6)
2705.7 (1.4)	92Zr (934.5)	2767.9 (0.4)	196Pt (356.1)	2833.3 (0.4)	74Ge (595.7)
2706.6 (0.2)	61Ni (7819.6)	2769.2 (0.5)	56Mn (26.6)	2834.8 (0.6)	143Nd (742.1)
2707.7 (<0.1)	68Zn (1077.4)	2769.5 (1.3)	78Se (613.8)	2835.0 (2.1)	57Fe (7631.6)
2708.4 (1.8)	56Mn (26.6)	2770.4 (0.4)	68Zn (1077.4)	2837.0 (0.8)	171Er (197.9)
2708.6 (1.6)	143Nd (742.1)	2771.1 (0.2)	74Ge (595.7)	2837.3 (1.8)	147Nd (314.7)
2708.8 (4.2)	187W (5261.8)	2771.6 (8.2)	233Th (3473.0)	2837.8 (0.7)	77Se (238.9)
2711.8 (1.9)	177Yb (151.6)	2774.6 (1.8)	147Nd (314.7)	2838.0 (0.2)	143Nd (742.1)
2712.4 (20.1)	233Th (3473.0)	2779.4 (0.1)	204Tl (139.9)	2838.0 (<0.1)	156Gd (89.0)
2713.7 (1.6)	142Pr (176.9)	2779.5 (1.0)	56Mn (26.6)	2838.0 (<0.1)	165Dy (108.2)
2714.1 (0.4)	92Zr (934.5)	2781.0 (5.2)	58Fe (810.5)	2838.3 (12.0)	233Th (3473.0)
2714.3 (0.1)	204Tl (139.9)	2781.0 (<0.1)	156Gd (89.0)	2839.8 (9.3)	142Pr (176.9)
2716.0 (1.8)	45Ca (174.3)	2782.0 (0.1)	55Cr (6246.4)	2840.5 (<0.1)	49Ti (1381.5)
2716.7 (8.9)	233Th (3473.0)	2782.9 (0.2)	61Ni (7819.6)	2841.5 (3.5)	52V (125.1)
2716.8 (0.2)	143Nd (742.1)	2784.0 (0.1)	63Ni (6838.2)	2841.9 (8.6)	233Th (3473.0)
2718.0 (0.1)	55Cr (6246.4)	2784.2 (13.9)	233Th (3473.0)	2842.1 (0.4)	56Mn (26.6)
2718.2 (1.1)	77Se (238.9)	2788.1 (1.2)	74Ge (595.7)	2842.3 (0.8)	45Ca (174.3)
2720.0 (22.8)	233Th (3473.0)	2789.3 (0.3)	143Nd (742.1)	2843.5 (2.1)	116Sn (1293.5)
2721.1 (2.6)	105Ru (143.2)	2790.0 (0.3)	56Mn (26.6)	2844.3 (<0.1)	204Tl (139.9)
2721.5 (5.1)	57Fe (7631.6)	2790.4 (7.4)	233Th (3473.0)	2845.0 (<0.1)	138Ba (1435.6)
2721.6 (0.5)	56Mn (26.6)	2791.0 (1.1)	55Fe (9297.8)	2847.3 (0.4)	200Hg (367.9)

Table I. CAPTURE γ 's - energy sorted (cont.)

Energy (keV) (γ)	Nucleus (Strongest γ)	Energy (keV) (γ)	Nucleus (Strongest γ)	Energy (keV) (γ)	Nucleus (Strongest γ)
2849.8 (6.8)	187W (5261.8)	2906.5 (0.2)	204Tl (139.9)	2982.9 (0.5)	68Zn (1077.4)
2850.9 (11.5)	233Th (3473.0)	2907.0 (<0.1)	156Gd (89.0)	2984.0 (0.4)	156Gd (89.0)
2851.0 (0.4)	68Zn (1077.4)	2909.4 (0.2)	74Ge (595.7)	2985.8 (0.3)	200Hg (367.9)
2852.8 (<0.1)	146Nd (7110.8)	2911.8 (3.7)	147Nd (314.7)	2987.7 (0.1)	68Zn (1077.4)
2853.0 (0.4)	143Nd (742.1)	2912.3 (0.1)	55Cr (6246.4)	2988.8 (0.3)	124Te (602.4)
2853.8 (0.1)	200Hg (367.9)	2913.0 (0.8)	171Er (197.9)	2989.5 (11.8)	233Th (3473.0)
2854.0 (1.0)	171Er (197.9)	2913.4 (1.7)	143Ce (4337.8)	2990.0 (1.3)	51Cr (749.0)
2856.5 (<0.1)	146Nd (7110.8)	2914.3 (2.7)	147Nd (314.7)	2991.4 (0.8)	56Mn (26.6)
2857.0 (<0.1)	156Gd (89.0)	2916.0 (<0.1)	156Gd (89.0)	2993.8 (1.3)	147Nd (314.7)
2857.3 (0.2)	196Pt (356.1)	2918.0 (0.8)	72Ga (145.1)	2993.8 (0.2)	200Hg (367.9)
2857.6 (1.9)	68Zn (1077.4)	2921.1 (1.4)	200Hg (367.9)	2995.8 (0.1)	68Zn (1077.4)
2857.9 (1.4)	56Mn (26.6)	2922.0 (<0.1)	165Dy (108.2)	2995.9 (0.2)	196Pt (356.1)
2859.0 (<0.1)	165Dy (108.2)	2922.5 (0.5)	57Fe (7631.6)	2997.0 (<0.1)	156Gd (89.0)
2861.7 (0.6)	61Ni (7819.6)	2922.8 (1.9)	56Mn (26.6)	2998.6 (5.5)	142Pr (176.9)
2862.3 (0.3)	196Pt (356.1)	2923.8 (8.4)	233Th (3473.0)	2998.8 (<0.1)	204Tl (139.9)
2862.4 (<0.1)	200Hg (367.9)	2925.2 (0.4)	143Nd (742.1)	2998.8 (0.2)	143Nd (742.1)
2863.9 (0.1)	204Tl (139.9)	2926.6 (<0.1)	204Tl (139.9)	2999.6 (1.2)	114Cd (1660.3)
2864.4 (2.3)	56Mn (26.6)	2926.6 (5.8)	233Th (3473.0)	3003.3 (3.9)	141Ce (662.0)
2866.0 (0.8)	72Ga (145.1)	2926.9 (2.3)	56Mn (26.6)	3003.4 (3.6)	56Mn (26.6)
2866.1 (0.5)	68Zn (1077.4)	2928.3 (0.3)	196Pt (356.1)	3003.4 (1.1)	147Nd (314.7)
2866.8 (0.6)	143Nd (742.1)	2928.6 (0.2)	200Hg (367.9)	3005.0 (1.5)	55Fe (9297.8)
2868.1 (3.4)	147Nd (314.7)	2928.7 (1.6)	138Ba (1435.6)	3009.5 (8.0)	88Sr (1836.1)
2871.0 (<0.1)	156Gd (89.0)	2930.6 (1.1)	55Cr (6246.4)	3009.9 (5.5)	233Th (3473.0)
2871.0 (0.8)	171Er (197.9)	2930.8 (0.8)	143Ce (4337.8)	3011.1 (0.3)	204Tl (139.9)
2872.4 (0.9)	56Mn (26.6)	2932.0 (<0.1)	156Gd (89.0)	3011.9 (3.9)	46Sc (227.8)
2872.5 (2.8)	77Se (238.9)	2934.1 (0.3)	61Ni (7819.6)	3012.0 (<0.1)	165Dy (108.2)
2872.7 (0.1)	200Hg (367.9)	2937.2 (0.1)	200Hg (367.9)	3012.7 (0.2)	61Ni (7819.6)
2873.0 (1.7)	55Fe (9297.8)	2937.3 (4.0)	143Nd (742.1)	3013.1 (10.4)	91Zr (2186.5)
2873.2 (1.4)	143Ce (4337.8)	2937.6 (0.4)	56Mn (26.6)	3013.2 (0.3)	143Nd (742.1)
2873.8 (1.5)	57Fe (7631.6)	2938.0 (0.8)	72Ga (145.1)	3014.9 (2.9)	147Nd (314.7)
2873.9 (2.0)	78Se (613.8)	2938.6 (<0.1)	204Tl (139.9)	3017.1 (4.7)	141Ce (662.0)
2874.0 (<0.1)	165Dy (108.2)	2940.0 (<0.1)	171Er (197.9)	3017.3 (1.4)	51Cr (749.0)
2875.0 (3.5)	147Nd (314.7)	2941.6 (0.4)	75Se (286.6)	3018.0 (1.0)	171Er (197.9)
2876.0 (<0.1)	58Fe (810.5)	2942.8 (0.6)	143Nd (742.1)	3019.0 (0.1)	55Cr (6246.4)
2876.0 (3.7)	77Se (238.9)	2943.4 (0.8)	143Ce (4337.8)	3021.3 (1.9)	51Cr (749.0)
2876.0 (1.0)	196Pt (356.1)	2943.5 (0.8)	49Ti (1381.5)	3021.7 (1.6)	56Mn (26.6)
2876.8 (0.3)	143Nd (742.1)	2944.3 (2.9)	233Th (3473.0)	3022.6 (0.9)	196Pt (356.1)
2878.0 (0.2)	68Zn (1077.4)	2944.5 (0.2)	68Zn (1077.4)	3023.3 (0.2)	143Nd (742.1)
2878.0 (<0.1)	156Gd (89.0)	2946.3 (5.6)	142Pr (176.9)	3025.6 (35.8)	91Zr (2186.5)
2879.6 (0.8)	143Nd (742.1)	2947.1 (0.3)	45Ca (174.3)	3025.7 (<0.1)	54Cr (8884.1)
2880.6 (0.7)	74Ge (595.7)	2947.9 (0.1)	204Tl (139.9)	3026.0 (<0.1)	156Gd (89.0)
2880.7 (0.2)	200Hg (367.9)	2948.0 (<0.1)	165Dy (108.2)	3027.5 (1.7)	49Ti (1381.5)
2880.9 (16.8)	233Th (3473.0)	2953.6 (0.2)	74Ge (595.7)	3027.7 (0.1)	68Zn (1077.4)
2881.7 (1.5)	147Nd (314.7)	2953.8 (1.6)	56Mn (26.6)	3028.0 (3.9)	55Fe (9297.8)
2883.4 (0.3)	200Hg (367.9)	2953.8 (0.2)	200Hg (367.9)	3028.0 (<0.1)	204Tl (139.9)
2883.7 (0.3)	68Zn (1077.4)	2955.6 (1.3)	57Fe (7631.6)	3029.7 (1.0)	142Pr (176.9)
2885.6 (0.3)	56Mn (26.6)	2957.0 (1.2)	171Er (197.9)	3031.8 (0.7)	143Nd (742.1)
2887.0 (0.8)	171Er (197.9)	2958.3 (0.5)	143Nd (742.1)	3033.6 (0.9)	200Hg (367.9)
2887.8 (26.0)	87Kr (1475.9)	2958.8 (<0.1)	204Tl (139.9)	3034.0 (2.0)	52V (125.1)
2888.9 (3.8)	52V (125.1)	2959.0 (10.0)	171Yb (6614.7)	3034.0 (<0.1)	165Dy (108.2)
2890.2 (1.3)	105Ru (143.2)	2959.7 (0.2)	68Zn (1077.4)	3034.1 (0.8)	56Mn (26.6)
2890.9 (0.2)	51Cr (749.0)	2960.2 (0.8)	200Hg (367.9)	3036.0 (1.9)	171Er (197.9)
2891.4 (7.4)	233Th (3473.0)	2960.5 (2.0)	116Sn (1293.5)	3039.1 (0.1)	204Tl (139.9)
2893.4 (0.2)	68Zn (1077.4)	2962.5 (1.2)	52V (125.1)	3040.0 (0.8)	55Fe (9297.8)
2893.7 (0.6)	56Mn (26.6)	2963.0 (<0.1)	165Dy (108.2)	3040.4 (2.8)	147Nd (314.7)
2894.0 (<0.1)	156Gd (89.0)	2963.4 (0.7)	142Pr (176.9)	3041.5 (1.0)	196Pt (356.1)
2894.0 (<0.1)	165Dy (108.2)	2965.5 (0.2)	68Zn (1077.4)	3044.0 (0.2)	68Zn (1077.4)
2894.3 (2.6)	55Cr (6246.4)	2966.4 (0.2)	143Nd (742.1)	3044.1 (0.2)	143Nd (742.1)
2894.9 (<0.1)	92Zr (934.5)	2970.2 (2.8)	56Mn (26.6)	3044.7 (1.5)	136Ba (818.6)
2896.2 (0.6)	196Pt (356.1)	2970.3 (11.0)	233Th (3473.0)	3045.1 (5.8)	233Th (3473.0)
2897.3 (<0.1)	143Nd (742.1)	2972.1 (0.5)	75Se (286.6)	3047.5 (2.1)	56Mn (26.6)
2898.0 (0.4)	72Ga (145.1)	2972.3 (0.3)	68Zn (1077.4)	3048.0 (<0.1)	156Gd (89.0)
2898.0 (0.8)	171Er (197.9)	2975.6 (0.3)	143Nd (742.1)	3049.1 (1.3)	138Ba (1435.6)
2898.7 (1.0)	56Mn (26.6)	2975.8 (0.3)	124Te (602.4)	3049.6 (6.0)	233Th (3473.0)
2901.3 (1.2)	200Hg (367.9)	2975.9 (<0.1)	204Tl (139.9)	3049.8 (2.4)	46Sc (227.8)
2902.8 (1.4)	143Nd (742.1)	2976.4 (1.4)	56Mn (26.6)	3051.1 (0.6)	200Hg (367.9)
2903.6 (0.4)	88Sr (1836.1)	2977.0 (3.6)	138Ba (818.6)	3053.0 (1.1)	142Pr (176.9)
2904.3 (12.7)	51Ti (1166.6)	2977.0 (1.4)	142Pr (176.9)	3053.6 (0.1)	68Zn (1077.4)
2905.5 (1.3)	142Pr (176.9)	2978.5 (0.3)	200Hg (367.9)	3055.7 (10.8)	233Th (3473.0)
2905.9 (3.0)	141Ce (662.0)	2980.7 (17.7)	233Th (3473.0)	3056.0 (<0.1)	156Gd (89.0)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)
3057.6 (0.1)	68Zn (1077.4)	3116.1 (1.2)	56Mn (26.6)	3186.2 (2.4)	57Fe (7631.6)
3058.2 (0.7)	56Mn (26.6)	3117.3 (0.3)	196Pt (356.1)	3188.0 (1.0)	171Er (197.9)
3058.6 (9.1)	233Th (3473.0)	3117.5 (0.3)	204Tl (139.9)	3189.0 (7.7)	140La (5097.9)
3059.4 (0.4)	143Nd (742.1)	3118.0 (9.8)	233Th (3473.0)	3189.6 (1.6)	177Yb (151.6)
3060.0 (0.7)	62Ni (1172.8)	3118.9 (1.2)	143Ce (4337.8)	3191.5 (0.4)	56Mn (26.6)
3060.5 (0.2)	88Sr (1836.1)	3120.0 (0.3)	68Zn (1077.4)	3191.5 (0.4)	75Se (286.6)
3061.9 (0.8)	56Mn (26.6)	3123.0 (33.3)	49Ca (5146.6)	3192.0 (2.1)	69Zn (1008.0)
3062.1 (0.4)	57Fe (7631.6)	3124.2 (0.1)	143Nd (742.1)	3192.3 (3.1)	142Pr (176.9)
3062.2 (0.3)	196Pt (356.1)	3124.7 (1.1)	56Mn (26.6)	3193.7 (6.1)	187W (5261.8)
3062.4 (0.7)	68Zn (1077.4)	3127.6 (10.6)	233Th (3473.0)	3195.6 (0.6)	56Mn (26.6)
3062.7 (0.1)	61Ni (7819.6)	3128.0 (<0.1)	63Ni (6838.2)	3196.5 (27.3)	233Th (3473.0)
3063.0 (1.0)	171Er (197.9)	3128.0 (1.3)	171Er (197.9)	3197.4 (23.7)	51Ti (1166.6)
3064.9 (1.1)	142Pr (176.9)	3129.0 (0.8)	70Ga (508.4)	3199.0 (<0.1)	165Dy (108.2)
3066.9 (1.5)	45Ca (174.3)	3129.2 (0.2)	204Tl (139.9)	3200.2 (2.6)	143Ce (4337.8)
3068.0 (<0.1)	165Dy (108.2)	3131.9 (0.4)	61Ni (7819.6)	3200.8 (2.1)	143Nd (742.1)
3068.6 (0.1)	204Tl (139.9)	3132.7 (12.2)	233Th (3473.0)	3201.0 (1.7)	171Er (197.9)
3068.8 (0.3)	68Zn (1077.4)	3133.1 (0.5)	196Pt (356.1)	3201.1 (0.2)	68Zn (1077.4)
3069.0 (<0.1)	156Gd (89.0)	3134.0 (0.1)	143Nd (742.1)	3202.3 (0.2)	80Br (37.1)
3070.6 (9.1)	233Th (3473.0)	3134.8 (1.8)	142Pr (176.9)	3203.9 (1.8)	56Mn (26.6)
3071.0 (2.4)	58Fe (810.5)	3135.0 (1.7)	171Er (197.9)	3205.0 (1.2)	56Fe (810.5)
3072.7 (0.2)	56Mn (26.6)	3135.6 (1.4)	56Mn (26.6)	3205.6 (0.3)	63Ni (6838.2)
3072.7 (<0.1)	78Se (613.8)	3137.0 (<0.1)	156Gd (89.0)	3206.4 (0.4)	68Zn (1077.4)
3072.9 (1.3)	138Ba (1435.6)	3137.8 (0.6)	68Zn (1077.4)	3207.1 (4.4)	187W (5261.8)
3074.2 (0.4)	200Hg (367.9)	3140.8 (5.5)	73Ge (326.0)	3207.4 (0.2)	204Tl (139.9)
3074.7 (0.4)	143Nd (742.1)	3141.0 (0.4)	72Ga (145.1)	3207.5 (0.2)	51Cr (749.0)
3075.5 (1.8)	147Nd (314.7)	3143.3 (45.0)	87Kr (1475.9)	3208.7 (1.5)	147Nd (314.7)
3076.6 (0.2)	56Mn (26.6)	3143.8 (<0.1)	204Tl (139.9)	3209.9 (1.4)	138Ba (1435.6)
3076.7 (0.1)	61Ni (7819.6)	3144.4 (1.4)	56Mn (26.6)	3210.0 (<0.1)	156Gd (89.0)
3077.2 (0.3)	68Zn (1077.4)	3144.6 (0.3)	61Ni (7819.6)	3211.3 (0.1)	204Tl (139.9)
3078.0 (1.8)	171Er (197.9)	3145.4 (0.3)	196Pt (356.1)	3212.3 (0.2)	143Nd (742.1)
3080.0 (19.4)	140La (5097.9)	3146.0 (<0.1)	165Dy (108.2)	3213.0 (1.0)	171Er (197.9)
3080.8 (0.1)	143Nd (742.1)	3147.3 (0.2)	68Zn (1077.4)	3213.7 (0.3)	56Mn (26.6)
3081.8 (2.5)	147Nd (314.7)	3148.3 (38.4)	233Th (3473.0)	3214.9 (0.2)	68Zn (1077.4)
3081.9 (0.4)	68Zn (1077.4)	3148.3 (10.0)	187W (5261.8)	3216.0 (0.1)	165Dy (108.2)
3083.5 (<0.1)	49Ti (1381.5)	3149.6 (2.1)	142Pr (176.9)	3216.9 (0.8)	200Hg (367.9)
3084.0 (5.1)	143Ce (4337.8)	3151.9 (0.3)	68Zn (1077.4)	3218.1 (9.7)	47Ca (2013.6)
3084.3 (0.2)	196Pt (356.1)	3153.0 (<0.1)	165Dy (108.2)	3218.5 (0.6)	114Cd (1660.3)
3085.0 (1.3)	171Er (197.9)	3153.1 (3.8)	143Ce (4337.8)	3220.0 (0.6)	88Sr (1836.1)
3087.0 (5.2)	177Yb (151.6)	3153.5 (1.4)	147Nd (314.7)	3220.9 (0.8)	78Se (613.8)
3087.0 (16.1)	233Th (3473.0)	3154.0 (0.6)	143Nd (742.1)	3221.1 (3.4)	55Cr (6246.4)
3089.3 (0.2)	56Mn (26.6)	3154.0 (7.1)	187W (5261.8)	3221.4 (1.8)	142Pr (176.9)
3089.4 (2.8)	116Sn (1293.5)	3154.6 (0.4)	68Zn (1077.4)	3221.6 (<0.1)	63Ni (6838.2)
3089.4 (0.7)	143Nd (742.1)	3158.0 (2.2)	62Ni (1172.8)	3222.4 (<0.1)	56Mn (26.6)
3089.7 (0.1)	61Ni (7819.6)	3158.0 (0.8)	72Ga (145.1)	3222.8 (1.2)	147Nd (314.7)
3091.4 (2.9)	48Ti (983.7)	3159.4 (<0.1)	204Tl (139.9)	3225.5 (8.4)	187W (5261.8)
3091.4 (0.3)	124Te (602.4)	3159.6 (0.6)	56Mn (26.6)	3225.8 (0.6)	57Fe (7631.6)
3092.5 (2.8)	141Ce (662.0)	3162.0 (2.1)	58Fe (810.5)	3226.4 (0.4)	68Zn (1077.4)
3093.1 (0.2)	200Hg (367.9)	3164.0 (1.6)	171Er (197.9)	3227.8 (2.7)	142Pr (176.9)
3094.8 (37.3)	111Pd (4902.5)	3165.0 (<0.1)	165Dy (108.2)	3228.9 (10.6)	233Th (3473.0)
3095.7 (<0.1)	204Tl (139.9)	3165.3 (0.3)	196Pt (356.1)	3230.0 (0.3)	196Pt (356.1)
3097.2 (1.1)	138Ba (1435.6)	3165.6 (0.2)	143Nd (742.1)	3231.0 (1.6)	116Sn (1293.5)
3098.1 (0.2)	56Mn (26.6)	3166.7 (0.2)	80Br (37.1)	3231.6 (0.2)	56Mn (26.6)
3099.0 (1.7)	171Er (197.9)	3167.4 (2.1)	142Pr (176.9)	3231.6 (11.3)	233Th (3473.0)
3099.0 (4.2)	187W (5261.8)	3169.3 (1.1)	57Fe (7631.6)	3232.2 (0.2)	61Ni (7819.6)
3099.4 (0.6)	63Ni (6838.2)	3170.0 (0.2)	143Nd (742.1)	3232.5 (4.1)	143Ce (4337.8)
3099.7 (1.0)	45Ca (174.3)	3171.5 (1.5)	177Yb (151.6)	3233.2 (0.3)	204Tl (139.9)
3101.7 (1.0)	52V (125.1)	3172.5 (0.9)	56Mn (26.6)	3233.0 (0.6)	72Ga (145.1)
3103.9 (2.4)	57Fe (7631.6)	3174.0 (16.5)	233Th (3473.0)	3237.0 (<0.1)	63Ni (6838.2)
3108.5 (0.1)	61Ni (7819.6)	3174.6 (19.9)	51Ti (1166.6)	3239.0 (2.7)	141Ce (662.0)
3107.0 (<0.1)	165Dy (108.2)	3176.2 (0.4)	196Pt (356.1)	3239.7 (0.1)	143Nd (742.1)
3107.5 (0.2)	68Zn (1077.4)	3177.9 (1.7)	54Cr (8884.1)	3240.4 (0.8)	57Fe (7631.6)
3108.2 (6.3)	147Nd (314.7)	3180.8 (0.8)	45Ca (174.3)	3242.0 (0.7)	165Dy (108.2)
3108.8 (0.3)	143Nd (742.1)	3183.0 (0.8)	58Fe (810.5)	3242.5 (0.5)	56Mn (26.6)
3109.0 (6.5)	140La (5097.9)	3183.3 (<0.1)	204Tl (139.9)	3243.3 (0.2)	61Ni (7819.6)
3110.4 (1.2)	114Cd (1660.3)	3184.3 (0.5)	68Zn (1077.4)	3243.6 (3.0)	45Ca (174.3)
3110.9 (0.3)	68Zn (1077.4)	3184.8 (0.3)	78Se (613.8)	3243.9 (0.2)	68Zn (1077.4)
3112.2 (0.3)	200Hg (367.9)	3184.9 (0.4)	143Nd (742.1)	3244.0 (1.0)	171Er (197.9)
3114.0 (<0.1)	165Dy (108.2)	3184.9 (15.8)	233Th (3473.0)	3245.1 (5.3)	233Th (3473.0)
3114.8 (8.5)	187W (5261.8)	3185.6 (0.3)	75Se (286.6)	3245.1 (0.8)	143Nd (742.1)
3115.0 (<0.1)	63Ni (6838.2)	3185.8 (2.5)	200Hg (367.9)	3247.3 (0.5)	56Mn (26.6)

Table 1. CAPTURE γ 's - energy sorted (cont.)

E γ keV (% γ)	Nucleus (Strongest γ)	E γ keV (% γ)	Nucleus (Strongest γ)	E γ keV (% γ)	Nucleus (Strongest γ)
3251.5 (0.6)	196Pt (356.1)	3302.9 (3.2)	75Ge (574.7)	3375.5 (0.1)	143Nd (742.1)
3254.4 (0.1)	68Zn (1077.4)	3305.3 (0.6)	138Ba (1435.6)	3376.2 (0.2)	68Zn (1077.4)
3255.8 (<0.1)	204Tl (139.9)	3305.5 (0.1)	61Ni (7819.6)	3376.2 (4.7)	187W (5261.8)
3256.5 (<0.1)	63Ni (6838.2)	3305.8 (<0.1)	51Cr (749.0)	3377.0 (0.5)	70Ga (508.4)
3257.0 (7.3)	171Yb (6614.7)	3306.8 (0.6)	75Se (286.6)	3377.2 (50.7)	129Te (3721.8)
3258.2 (7.4)	147Nd (314.7)	3310.4 (3.2)	143Ce (4337.8)	3377.5 (1.7)	147Nd (314.7)
3259.1 (0.2)	80Br (37.1)	3311.5 (0.8)	239U (133.8)	3377.5 (0.1)	204Tl (139.9)
3259.2 (0.7)	142Pr (176.9)	3311.7 (0.5)	196Pt (356.1)	3377.9 (24.2)	233Th (3473.0)
3259.9 (1.0)	56Mn (26.6)	3312.7 (5.5)	147Nd (314.7)	3378.6 (19.0)	238Np (5352.0)
3260.5 (0.1)	204Tl (139.9)	3312.8 (0.9)	239U (133.8)	3380.0 (2.3)	55Fe (9297.8)
3261.2 (7.2)	233Th (3473.0)	3313.9 (7.3)	142Pr (176.9)	3380.2 (0.2)	68Zn (1077.4)
3262.8 (2.0)	51Cr (749.0)	3314.5 (5.9)	187W (5261.8)	3380.3 (1.0)	140La (5097.9)
3262.8 (1.8)	147Nd (314.7)	3316.9 (0.4)	56Mn (26.6)	3383.8 (16.0)	238Np (5352.0)
3263.2 (<0.1)	92Zr (934.5)	3321.1 (1.2)	56Mn (26.6)	3385.0 (1.1)	78Se (613.8)
3263.3 (0.2)	200Hg (367.9)	3323.4 (2.9)	177Yb (151.6)	3385.6 (0.6)	61Ni (7819.6)
3263.7 (0.3)	68Zn (1077.4)	3324.9 (0.3)	239U (133.8)	3386.1 (1.4)	142Pr (176.9)
3263.8 (0.2)	56Mn (26.6)	3326.0 (8.6)	58Fe (810.5)	3386.2 (0.2)	143Nd (742.1)
3265.7 (1.6)	52V (125.1)	3326.6 (18.2)	233Th (3473.0)	3386.8 (0.1)	204Tl (139.9)
3266.8 (2.8)	56Mn (26.6)	3326.9 (<0.1)	239U (133.8)	3387.3 (0.1)	196Pt (356.1)
3266.9 (3.7)	187W (5261.8)	3331.0 (1.0)	68Zn (1077.4)	3387.4 (12.4)	177Yb (151.6)
3267.1 (<0.1)	55Cr (6246.4)	3333.6 (2.0)	52V (125.1)	3387.6 (1.1)	65Ni (6034.0)
3267.8 (4.4)	57Fe (7631.6)	3334.0 (0.8)	72Ga (145.1)	3387.8 (1.1)	56Mn (26.6)
3268.4 (0.2)	68Zn (1077.4)	3334.2 (4.0)	116Sn (1293.5)	3389.5 (<0.1)	239U (133.8)
3268.5 (1.4)	142Pr (176.9)	3334.5 (3.7)	73Ge (326.0)	3391.1 (9.1)	233Th (3473.0)
3268.7 (1.6)	147Nd (314.7)	3337.1 (2.8)	191Os (5147.1)	3391.2 (0.8)	140La (5097.9)
3268.9 (3.6)	233Th (3473.0)	3337.4 (0.6)	56Mn (26.6)	3391.8 (2.4)	191Os (5147.1)
3269.0 (2.1)	210Bi (1172.8)	3337.7 (4.0)	75Ge (574.7)	3392.0 (0.4)	72Ga (145.1)
3269.4 (0.6)	200Hg (367.9)	3338.7 (0.3)	68Zn (1077.4)	3392.6 (85.0)	87Kr (1475.9)
3270.0 (2.1)	62Ni (1172.8)	3339.0 (0.4)	75Se (286.6)	3393.3 (0.7)	54Cr (8884.1)
3271.8 (1.8)	56Mn (26.6)	3340.0 (0.7)	171Er (197.9)	3393.6 (9.9)	193Os (5276.0)
3273.0 (<0.1)	50Ti (1555.0)	3340.1 (1.7)	105Ru (143.2)	3394.1 (0.3)	68Zn (1077.4)
3276.0 (1.3)	165Dy (108.2)	3340.4 (5.2)	138Ba (1435.6)	3394.8 (2.0)	147Nd (314.7)
3276.3 (0.4)	68Zn (1077.4)	3340.9 (20.6)	193Os (5276.0)	3395.0 (0.1)	70Ga (508.4)
3276.5 (9.4)	233Th (3473.0)	3341.7 (29.3)	233Th (3473.0)	3396.0 (30.9)	210Bi (1172.8)
3276.8 (0.2)	51Cr (749.0)	3343.9 (<0.1)	239U (133.8)	3398.3 (30.9)	233Th (3473.0)
3277.0 (0.2)	88Sr (1836.1)	3344.7 (1.2)	48Ti (983.7)	3399.0 (0.8)	171Er (197.9)
3278.6 (3.5)	75Ge (574.7)	3345.3 (3.8)	105Ru (143.2)	3399.0 (5.4)	249Cm (1408.3)
3279.0 (0.6)	171Er (197.9)	3345.9 (0.9)	68Zn (1077.4)	3399.6 (2.2)	56Mn (26.6)
3280.0 (0.5)	58Fe (810.5)	3346.9 (3.0)	56Mn (26.6)	3399.8 (0.2)	68Zn (1077.4)
3280.5 (1.0)	78Se (613.8)	3348.1 (0.6)	143Nd (742.1)	3401.0 (0.3)	80Br (37.1)
3282.2 (0.2)	143Nd (742.1)	3348.3 (2.7)	75Ge (574.7)	3401.9 (0.5)	239U (133.8)
3283.9 (2.6)	147Nd (314.7)	3349.0 (0.6)	165Dy (108.2)	3402.3 (1.0)	140La (5097.9)
3284.1 (0.2)	196Pt (356.1)	3349.3 (2.7)	184W (111.2)	3402.6 (2.7)	142Pr (176.9)
3284.2 (0.2)	51Cr (749.0)	3350.0 (0.5)	171Er (197.9)	3404.0 (3.4)	48Ti (983.7)
3284.4 (3.6)	191Os (5147.1)	3351.5 (4.9)	55Cr (6246.4)	3404.0 (1.1)	171Er (197.9)
3285.0 (10.2)	140La (5097.9)	3352.1 (1.3)	142Pr (176.9)	3404.6 (2.1)	177Yb (151.6)
3285.2 (0.9)	142Pr (176.9)	3353.2 (<0.1)	200Hg (367.9)	3405.4 (2.0)	116Sn (1293.5)
3286.1 (0.9)	239U (133.8)	3354.0 (<0.1)	156Gd (89.0)	3405.7 (3.4)	105Ru (147.2)
3287.2 (1.8)	68Zn (1077.4)	3356.4 (1.2)	147Nd (314.7)	3406.5 (0.2)	196Pt (356.1)
3287.9 (0.3)	204Tl (139.9)	3356.4 (<0.1)	204Tl (139.9)	3406.9 (<0.1)	239U (133.8)
3288.0 (58.2)	111Pd (4902.5)	3356.9 (1.1)	57Fe (7631.6)	3408.0 (17.6)	210Bi (1172.8)
3288.0 (21.6)	233Th (3473.0)	3358.2 (0.5)	68Zn (1077.4)	3409.1 (2.3)	56Mn (26.6)
3288.2 (0.7)	56Mn (26.6)	3360.6 (0.3)	239U (133.8)	3409.6 (0.1)	48Ti (983.7)
3288.3 (5.3)	101Mo (180.7)	3361.0 (0.7)	70Ga (508.4)	3410.2 (0.1)	204Tl (139.9)
3288.9 (2.7)	200Hg (367.9)	3363.1 (<0.1)	63Ni (6838.2)	3412.4 (0.3)	68Zn (1077.4)
3290.8 (0.7)	51Cr (749.0)	3363.5 (0.4)	56Mn (26.6)	3413.8 (5.5)	57Fe (7631.6)
3293.5 (<0.1)	239U (133.8)	3363.5 (8.7)	193Os (5276.0)	3415.0 (0.3)	61Ni (7819.6)
3293.8 (0.7)	56Mn (26.6)	3363.7 (0.2)	143Nd (742.1)	3415.3 (0.3)	80Br (37.1)
3293.9 (0.2)	68Zn (1077.4)	3363.7 (8.2)	233Th (3473.0)	3415.5 (<0.1)	204Tl (139.9)
3295.3 (8.9)	233Th (3473.0)	3366.1 (3.9)	142Pr (176.9)	3415.6 (0.5)	68Zn (1077.4)
3296.5 (1.5)	239U (133.8)	3368.1 (1.0)	140La (5097.9)	3417.0 (1.4)	165Dy (108.2)
3298.2 (2.1)	191Os (5147.1)	3368.7 (2.2)	138Ba (1435.6)	3418.1 (1.1)	56Mn (26.6)
3298.8 (1.5)	105Ru (143.2)	3369.0 (0.4)	72Ga (145.1)	3419.6 (0.9)	52V (125.1)
3299.0 (1.0)	171Er (197.9)	3369.0 (0.2)	196Pt (356.1)	3419.6 (<0.1)	63Ni (6838.2)
3300.9 (3.4)	105Ru (143.2)	3369.6 (0.2)	239U (133.8)	3419.8 (4.4)	101Mo (180.7)
3301.1 (0.3)	143Nd (742.1)	3370.0 (2.0)	62Ni (1172.8)	3422.3 (8.6)	171Yb (6614.7)
3301.4 (0.9)	56Mn (26.6)	3371.2 (<0.1)	92Zr (934.5)	3422.7 (6.1)	140La (5097.9)
3301.9 (0.3)	239U (133.8)	3372.9 (3.6)	56Mn (26.6)	3422.9 (<0.1)	239U (133.8)
3302.0 (1.2)	72Ga (145.1)	3373.0 (1.0)	72Ga (145.1)	3423.3 (2.8)	187W (5261.8)
3302.1 (0.1)	204Tl (139.9)	3375.5 (6.5)	71Ge (499.8)	3424.0 (0.4)	70Ga (508.4)

Table I. CAPTURE γ 's - energy sorted (cont.)

By keV (χ_{17})	Nucleus (Strongest γ)	By keV (χ_{17})	Nucleus (Strongest γ)	By keV (χ_{17})	Nucleus (Strongest γ)
3425.9 (0.5)	196Pt (356.1)	3476.9 (0.3)	78Se (613.8)	3523.7 (1.1)	105Ru (143.2)
3426.0 (3.7)	177Yb (151.6)	3478.0 (0.5)	165Dy (108.2)	3523.7 (0.4)	140La (5097.9)
3427.1 (1.4)	142Pr (176.9)	3478.1 (0.2)	55Cr (6246.4)	3524.4 (29.9)	111Pd (4902.5)
3428.0 (0.2)	88Sr (1836.1)	3479.3 (0.6)	56Mn (26.6)	3524.5 (<0.1)	55Cr (6246.4)
3428.0 (<0.1)	204Tl (139.9)	3480.8 (1.1)	184W (111.2)	3524.7 (0.8)	56Mn (26.6)
3430.0 (2.1)	147Nd (314.7)	3481.8 (0.2)	239U (133.8)	3525.7 (2.9)	143Ce (4337.8)
3430.2 (0.2)	68Zn (1077.4)	3482.5 (4.8)	105Ru (143.2)	3526.9 (18.9)	233Th (3473.0)
3430.7 (<0.1)	80Br (37.1)	3484.4 (0.6)	56Mn (26.6)	3527.6 (1.1)	56Mn (26.6)
3430.8 (0.9)	56Mn (26.6)	3485.3 (2.0)	140La (5097.9)	3528.0 (1.3)	165Dy (108.2)
3432.0 (1.0)	139Ba (627.3)	3485.5 (5.2)	193Os (5276.0)	3528.2 (3.4)	184W (111.2)
3434.9 (0.3)	68Zn (1077.4)	3485.9 (0.2)	239U (133.8)	3529.6 (0.4)	239U (133.8)
3435.0 (2.0)	141Ce (662.0)	3486.0 (1.5)	58Fe (810.5)	3529.7 (8.3)	187W (5261.8)
3436.1 (1.3)	138Ba (1435.6)	3486.0 (0.3)	70Ga (508.4)	3530.1 (24.9)	233Th (3473.0)
3436.1 (35.3)	233Th (3473.0)	3487.0 (1.2)	88Sr (1836.1)	3530.3 (<0.1)	61Ni (7819.6)
3436.6 (2.0)	140La (5097.9)	3488.0 (89.6)	111Pd (4902.5)	3531.7 (2.6)	105Ru (143.2)
3437.4 (0.4)	56Mn (26.6)	3488.2 (0.6)	239U (133.8)	3534.0 (1.3)	165Dy (108.2)
3437.4 (4.8)	57Fe (7631.6)	3489.0 (0.5)	171Er (197.9)	3534.3 (0.9)	177Yb (151.6)
3438.0 (0.8)	143Nd (742.1)	3489.6 (0.8)	47Ca (2013.6)	3534.3 (9.9)	187W (5261.8)
3438.4 (0.5)	239U (133.8)	3490.0 (1.5)	57Fe (7631.6)	3534.5 (3.4)	52V (125.1)
3439.0 (1.5)	184W (111.2)	3490.0 (0.5)	165Dy (108.2)	3534.5 (0.1)	143Nd (742.1)
3439.7 (1.1)	78Se (613.8)	3491.0 (<0.1)	136Ba (818.6)	3535.0 (0.8)	72Ga (145.1)
3440.4 (<0.1)	204Tl (139.9)	3491.7 (1.6)	173Yb (399.4)	3535.3 (6.4)	193Os (5276.0)
3440.5 (3.1)	140La (5097.9)	3491.8 (0.2)	68Zn (1077.4)	3535.8 (0.1)	239U (133.8)
3441.4 (0.7)	143Nd (742.1)	3492.3 (4.0)	105Ru (143.2)	3536.6 (0.4)	140La (5097.9)
3442.0 (1.2)	52V (125.1)	3492.5 (10.7)	187W (5261.8)	3537.2 (13.3)	101Mo (180.7)
3442.0 (1.0)	72Ga (145.1)	3493.6 (4.9)	193Os (5276.0)	3537.5 (6.2)	142Pr (176.9)
3443.0 (0.9)	171Er (197.9)	3496.8 (0.3)	143Nd (742.1)	3538.3 (0.3)	68Zn (1077.4)
3443.0 (1.0)	138Ba (1435.6)	3498.0 (0.1)	70Ga (508.4)	3538.3 (51.3)	249Cm (1408.3)
3443.2 (0.8)	48Ti (983.7)	3498.2 (1.4)	177Yb (151.6)	3538.8 (2.9)	75Ge (574.7)
3443.3 (4.6)	187W (5261.8)	3498.9 (3.0)	56Mn (26.6)	3539.2 (0.1)	204Tl (139.9)
3444.9 (37.4)	249Cm (1408.3)	3499.0 (44.8)	111Pd (4902.5)	3539.5 (2.2)	105Ru (143.2)
3445.0 (2.5)	165Dy (108.2)	3499.3 (<0.1)	200Hg (367.9)	3540.0 (2.7)	58Fe (810.5)
3445.4 (1.0)	239U (133.8)	3499.9 (0.6)	140La (5097.9)	3540.2 (0.8)	147Nd (314.7)
3448.5 (37.9)	233Th (3473.0)	3500.0 (<0.1)	92Zr (934.5)	3540.3 (0.5)	75Ge (574.7)
3449.0 (0.9)	171Er (197.9)	3500.8 (0.2)	239U (133.8)	3541.1 (0.1)	239U (133.8)
3449.0 (2.6)	184W (111.2)	3501.0 (1.4)	72Ga (145.1)	3545.0 (3.4)	177Yb (151.6)
3449.3 (0.2)	80Br (37.1)	3501.1 (0.1)	143Nd (742.1)	3546.0 (0.5)	62Ni (1172.8)
3450.1 (3.4)	249Cm (1408.3)	3502.2 (3.0)	75Ge (574.7)	3546.1 (0.2)	239U (133.8)
3451.0 (1.1)	142Pr (176.9)	3502.7 (0.7)	142Pr (176.9)	3547.0 (0.4)	72Ga (145.1)
3451.0 (<0.1)	204Tl (139.9)	3503.1 (8.6)	233Th (3473.0)	3548.0 (2.5)	171Er (197.9)
3451.1 (10.1)	147Nd (314.7)	3503.5 (3.0)	52V (125.1)	3548.1 (7.0)	233Th (3473.0)
3451.6 (0.2)	56Mn (26.6)	3505.1 (2.5)	138Ba (1435.6)	3548.5 (1.6)	55Cr (6246.4)
3452.3 (6.4)	193Os (5276.0)	3506.0 (<0.1)	55Cr (6246.4)	3549.1 (0.2)	68Zn (1077.4)
3452.6 (0.2)	68Zn (1077.4)	3506.1 (7.9)	105Ru (143.2)	3549.2 (1.5)	56Mn (26.6)
3452.9 (6.4)	187W (5261.8)	3506.6 (10.4)	193Os (5276.0)	3549.7 (4.1)	71Ge (499.8)
3454.9 (2.2)	116Sn (1293.5)	3507.3 (1.1)	57Fe (7631.6)	3551.2 (4.4)	101Mo (180.7)
3455.0 (1.4)	72Ga (145.1)	3508.0 (1.5)	55Fe (9297.8)	3553.1 (3.6)	142Pr (176.9)
3456.0 (0.5)	62Ni (1172.8)	3509.0 (1.0)	72Ga (145.1)	3553.2 (0.4)	49Ti (1381.5)
3457.0 (2.0)	140La (5097.9)	3509.4 (3.6)	147Nd (314.7)	3553.3 (4.4)	75Ge (574.7)
3458.0 (1.8)	72Ga (145.1)	3509.5 (23.7)	233Th (3473.0)	3553.9 (1.5)	56Mn (26.6)
3458.1 (1.0)	68Zn (1077.4)	3509.7 (0.4)	140La (5097.9)	3553.9 (0.3)	196Pt (356.1)
3458.9 (0.2)	56Mn (26.6)	3509.7 (19.4)	249Cm (1408.3)	3555.0 (2.1)	55Fe (9297.8)
3460.7 (1.9)	143Nd (742.1)	3509.9 (0.3)	68Zn (1077.4)	3555.0 (<0.1)	63Ni (6838.2)
3461.6 (12.5)	233Th (3473.0)	3510.5 (4.1)	187W (5261.8)	3555.0 (0.7)	165Dy (108.2)
3464.0 (0.8)	171Er (197.9)	3511.0 (0.4)	165Dy (108.2)	3556.0 (1.0)	72Ga (145.1)
3466.1 (4.0)	191Os (5147.1)	3512.2 (0.8)	51Cr (749.0)	3556.8 (2.2)	52V (125.1)
3466.7 (69.5)	51Ti (1166.6)	3513.0 (0.1)	143Nd (742.1)	3556.8 (1.4)	105Ru (143.2)
3466.7 (2.2)	142Pr (176.9)	3514.3 (3.8)	71Ge (499.8)	3557.6 (0.4)	140La (5097.9)
3467.2 (1.4)	173Yb (399.4)	3517.0 (2.9)	143Ce (4337.8)	3558.6 (2.6)	55Cr (6246.4)
3467.9 (0.3)	204Tl (139.9)	3517.8 (<0.1)	136Ba (818.6)	3559.4 (0.6)	56Mn (26.6)
3469.4 (20.1)	187W (5261.8)	3518.0 (0.4)	62Ni (1172.8)	3559.5 (2.4)	191Os (5147.1)
3472.5 (<0.1)	92Zr (934.5)	3519.4 (0.3)	68Zn (1077.4)	3560.0 (0.1)	70Ga (508.4)
3473.0 (100.0)	233Th (3473.0)	3519.7 (9.6)	193Os (5276.0)	3560.6 (18.6)	249Cm (1408.3)
3474.8 (<0.1)	48Ti (983.7)	3520.0 (1.2)	72Ga (145.1)	3561.6 (13.1)	187W (5261.8)
3474.8 (1.3)	49Ti (1381.5)	3520.3 (1.7)	73Ge (326.0)	3562.7 (0.7)	75Se (286.6)
3475.0 (2.6)	105Ru (143.2)	3520.7 (0.3)	80Br (37.1)	3563.0 (<0.1)	239U (133.8)
3475.5 (4.1)	140La (5097.9)	3521.0 (1.6)	171Er (197.9)	3563.2 (0.6)	68Zn (1077.4)
3476.0 (0.7)	70Ga (508.4)	3522.4 (0.8)	75Se (286.6)	3563.7 (0.1)	204Tl (139.9)
3476.0 (<0.1)	136Ba (818.6)	3522.6 (0.5)	88Sr (1836.1)	3563.8 (2.2)	142Pr (176.9)
3476.3 (0.2)	63Ni (6838.2)	3523.1 (10.6)	233Th (3473.0)	3564.0 (0.8)	140La (5097.9)

Table I. CAPTURE γ 's - energy sorted (cont.)

Energy (keV) (% γ)	Nucleus (Strongest γ)	Energy (keV) (% γ)	Nucleus (Strongest γ)	Energy (keV) (% γ)	Nucleus (Strongest γ)
3564.0 (0.9)	239U (133.8)	3624.0 (74.6)	111Pd (4902.5)	3678.8 (17.3)	140La (5097.9)
3565.0 (0.3)	45Ca (174.3)	3626.8 (3.8)	56Mn (26.6)	3678.9 (3.2)	142Pr (176.9)
3567.0 (0.8)	72Ga (145.1)	3628.6 (2.6)	171Er (197.9)	3682.0 (3.0)	47Ti (159.0)
3568.7 (<0.1)	239U (133.8)	3628.6 (1.3)	184W (111.2)	3684.2 (0.4)	68Zn (1077.4)
3569.0 (0.1)	68Zn (1077.4)	3630.2 (0.5)	68Zn (1077.4)	3684.5 (0.9)	204Tl (139.9)
3570.0 (0.4)	70Ga (508.4)	3630.3 (2.7)	142Pr (176.9)	3685.0	175Yb
3571.2 (0.3)	239U (133.8)	3631.7 (0.6)	78Se (613.8)	3685.9 (0.8)	196Pt (356.1)
3571.3 (0.2)	80Br (37.1)	3631.9 (1.0)	45Ca (174.3)	3687.6 (0.2)	80Br (37.1)
3571.7 (7.2)	1910s (5147.1)	3632.0	210Bi	3687.7 (2.1)	71Ge (499.8)
3572.0 (1.0)	205Pb (6731.5)	3632.3	175Yb	3689.9 (5.1)	140La (5097.9)
3573.1 (4.3)	143Ce (4337.8)	3633.2 (<0.1)	200Hg (367.9)	3691.5 (0.2)	80Br (37.1)
3573.9 (1.3)	56Mn (26.6)	3633.5 (0.2)	49Ti (1381.5)	3695.2 (0.2)	68Zn (1077.4)
3574.4 (0.2)	239U (133.8)	3635.3 (10.1)	233Th (3473.0)	3696.0 (2.1)	184W (111.2)
3575.0 (48.0)	152Sm (3751.0)	3635.5 (2.2)	75Ge (574.7)	3696.6 (10.6)	151Nd (4487.8)
3576.7 (<0.1)	204Tl (139.9)	3635.8 (<0.1)	63Ni (6838.2)	3697.0 (0.7)	56Mn (26.6)
3576.8 (1.9)	45Ca (174.3)	3636.3 (0.3)	80Br (37.1)	3698.6 (15.9)	101Mo (180.7)
3577.2 (6.2)	187W (5261.8)	3637.0 (3.3)	140La (5097.9)	3699.1 (0.1)	204Tl (139.9)
3577.4 (7.5)	171Er (197.9)	3638.9 (2.7)	239U (133.8)	3700.2 (1.4)	158Gd (181.9)
3579.0 (3.1)	52V (125.1)	3640.0 (<0.1)	50Ti (1555.0)	3701.7 (0.3)	88Sr (1836.1)
3579.0 (0.8)	72Ga (145.1)	3640.4 (2.1)	184W (111.2)	3702.1 (4.7)	249Cm (1408.3)
3579.4 (1.0)	140La (5097.9)	3641.4 (20.0)	139Ba (627.3)	3702.6 (1.5)	147Nd (314.7)
3580.5 (0.2)	68Zn (1077.4)	3642.0 (0.6)	72Ga (145.1)	3702.9 (52.7)	192Te (3721.8)
3580.6 (2.4)	56Mn (26.6)	3642.0 (0.2)	61Ni (7819.6)	3703.5 (0.2)	68Zn (1077.4)
3580.7 (0.9)	61Ni (7819.6)	3642.3 (3.4)	56Mn (26.6)	3704.4 (2.3)	73Ge (326.0)
3581.0 (0.4)	70Ga (508.4)	3642.5 (4.2)	138Ba (1435.6)	3705.2 (1.9)	171Er (197.9)
3583.1 (9.3)	239U (133.8)	3644.3 (0.5)	68Zn (1077.4)	3707.8 (2.9)	184W (111.2)
3583.6 (0.6)	196Pt (356.1)	3644.8 (1.4)	171Er (197.9)	3708.0 (0.6)	165Dy (108.2)
3584.0 (0.2)	63Ni (6838.2)	3645.6 (0.9)	177Yb (151.6)	3709.8 (0.4)	49Ti (1381.5)
3584.5 (2.9)	142Pr (176.9)	3647.0 (4.3)	142Pr (176.9)	3709.8 (<0.1)	136Ba (818.6)
3588.0 (0.2)	165Dy (108.2)	3647.0 (4.0)	159Gd (5942.0)	3710.2 (4.0)	187W (5261.8)
3588.5 (0.4)	56Mn (26.6)	3651.0 (0.3)	165Dy (108.2)	3710.3 (6.0)	71Ge (499.8)
3590.5 (1.7)	48Ti (983.7)	3651.2 (0.8)	138Ba (1435.6)	3711.3 (10.6)	101Mo (180.7)
3593.3 (2.5)	143Nd (742.1)	3651.4 (0.1)	204Tl (139.9)	3711.4 (0.6)	61Ni (7819.6)
3593.4 (1.1)	51Cr (749.0)	3651.5 (0.3)	68Zn (1077.4)	3712.0 (23.9)	111Pd (4902.5)
3594.3 (1.3)	171Er (197.9)	3651.6 (2.0)	73Ge (326.0)	3712.0 (15.1)	161Gd (5280.0)
3595.2 (<0.1)	68Zn (1077.4)	3651.6 (1.5)	239U (133.8)	3712.5 (4.7)	142Pr (176.9)
3597.2 (0.7)	48Ti (983.7)	3652.0 (0.1)	63Ni (6838.2)	3712.6 (7.7)	233Th (3473.0)
3598.3 (0.1)	204Tl (139.9)	3652.5 (0.2)	196Pt (356.1)	3714.0 (39.6)	152Sm (3751.0)
3598.6 (0.5)	80Br (37.1)	3652.9 (8.8)	142Pr (176.9)	3714.4	175Yb
3599.0 (0.2)	68Zn (1077.4)	3653.9 (0.4)	239U (133.8)	3715.0 (0.8)	72Ga (145.1)
3600.3 (10.9)	171Yb (6614.7)	3654.2 (4.8)	233Th (3473.0)	3716.2 (0.2)	56Mn (26.6)
3600.7 (<0.1)	200Hg (367.9)	3654.7 (0.3)	88Sr (1836.1)	3716.5 (0.3)	68Zn (1077.4)
3600.9 (8.2)	233Th (3473.0)	3655.2 (0.2)	68Zn (1077.4)	3717.2 (1.3)	52V (125.1)
3601.4 (<0.1)	63Ni (6838.2)	3655.9 (10.0)	103Ru (174.0)	3717.3 (3.1)	140La (5097.9)
3601.5 (0.5)	56Mn (26.6)	3656.5 (<0.1)	204Tl (139.9)	3717.5 (0.6)	143Nd (742.1)
3601.6 (0.2)	143Nd (742.1)	3656.9 (0.3)	239U (133.8)	3719.6 (1.4)	171Er (197.9)
3603.0 (7.2)	142Pr (176.9)	3658.5 (2.2)	116Sn (1293.5)	3719.8 (7.8)	54Cr (8884.1)
3603.5 (13.4)	233Th (3473.0)	3658.7 (0.2)	56Mn (26.6)	3720.7 (2.1)	105Ru (143.2)
3604.0 (2.3)	184W (111.2)	3659.0 (0.4)	70Ga (508.4)	3721.3 (0.4)	57Fe (7631.6)
3604.4 (1.1)	147Nd (314.7)	3659.2 (1.2)	147Nd (314.7)	3721.5 (0.8)	147Nd (314.7)
3605.6 (0.3)	56Mn (26.6)	3659.5 (0.1)	55Cr (6246.4)	3721.8 (100.0)	129Te (3721.8)
3606.3 (5.1)	140La (5097.9)	3661.0 (1.2)	72Ga (145.1)	3723.2 (0.2)	56Mn (26.6)
3607.5 (3.3)	75Ge (574.7)	3661.2 (1.9)	142Pr (176.9)	3724.6 (2.0)	184W (111.2)
3609.3 (0.6)	45Ca (174.3)	3661.2	175Yb	3725.2 (14.1)	233Th (3473.0)
3609.3 (0.3)	80Br (37.1)	3662.6 (2.2)	1910s (5147.1)	3726.0 (8.9)	155Sm (4988.0)
3609.7 (0.5)	196Pt (356.1)	3663.5 (15.1)	249Cm (1408.3)	3726.0 (0.2)	80Br (37.1)
3610.0 (0.7)	165Dy (108.2)	3664.3 (13.3)	140La (5097.9)	3727.0 (2.3)	171Yb (6614.7)
3610.3 (4.1)	140La (5097.9)	3664.8 (0.3)	68Zn (1077.4)	3728.8 (7.1)	140La (5097.9)
3611.0	210Bi	3665.6 (13.0)	238Np (5352.0)	3731.1 (0.5)	68Zn (1077.4)
3611.9 (3.2)	239U (133.8)	3665.8 (0.5)	57Fe (7631.6)	3732.7 (0.5)	75Se (286.6)
3613.0 (0.2)	68Zn (1077.4)	3667.0 (2.7)	184W (111.2)	3733.0 (1.8)	72Ga (145.1)
3614.0 (0.8)	72Ga (145.1)	3668.8 (12.5)	1930s (5276.0)	3733.8 (1.4)	52V (125.1)
3615.3 (7.7)	233Th (3473.0)	3669.2 (1.5)	52V (125.1)	3735.3 (4.6)	1930s (5276.0)
3616.7 (6.7)	53Cr (7939.6)	3669.2 (0.2)	68Zn (1077.4)	3735.6 (17.5)	233Th (3473.0)
3617.1 (1.3)	145Sm (5863.0)	3669.8 (0.8)	56Mn (26.6)	3737.6 (3.7)	138Ba (1435.6)
3617.5 (0.4)	143Nd (742.1)	3670.1 (0.2)	143Nd (742.1)	3737.9 (3.1)	140La (5097.9)
3617.5 (1.3)	171Er (197.9)	3671.1 (1.4)	147Nd (314.7)	3738.4 (0.1)	56Mn (26.6)
3619.7 (4.0)	140Ce (662.0)	3671.7 (<0.1)	204Tl (139.9)	3738.2 (1.1)	136Ba (818.6)
3621.0 (0.4)	48Ti (983.7)	3675.2 (5.7)	1910s (5147.1)	3739.3 (6.6)	187W (5261.8)
3623.2 (0.2)	196Pt (356.1)	3676.0 (4.0)	152Sm (3751.0)	3739.8 (0.8)	239U (133.8)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV (χ ly)	Nucleus (Strongest γ)	E_{γ} keV (χ ly)	Nucleus (Strongest γ)	E_{γ} keV (χ ly)	Nucleus (Strongest γ)
3740.0 (1.7)	58Fe (810.5)	3786.0 (<0.1)	204Tl (139.9)	3839.2 (2.1)	184W (111.2)
3740.3 (0.1)	63Ni (6838.2)	3787.0 (23.4)	161Gd (5280.0)	3839.2 (3.1)	233Th (3473.0)
3740.5 (1.2)	177Yb (151.6)	3787.3 (7.1)	191Os (5147.1)	3840.8 (0.4)	239U (133.8)
3740.8	175Yb	3788.6 (16.5)	142Pr (176.9)	3841.0 (0.7)	165Dy (108.2)
3741.7 (1.6)	147Nd (314.7)	3789.9 (3.1)	73Ge (326.0)	3841.0 (<0.1)	200Hg (367.9)
3742.9 (2.5)	142Pr (176.9)	3790.0 (2.7)	55Fe (9297.8)	3841.3 (0.4)	48Ti (983.7)
3744.0 (1.4)	72Ga (145.1)	3791.2 (<0.1)	55Cr (6246.4)	3842.1	175Yb
3744.0 (<0.1)	239U (133.8)	3791.7 (0.6)	57Fe (7631.6)	3844.0 (0.8)	72Ga (145.1)
3745.0 (0.8)	70Ga (508.4)	3792.0 (0.4)	72Ga (145.1)	3844.5 (1.5)	239U (133.8)
3745.0 (11.6)	193Os (5276.0)	3793.3 (1.5)	184W (111.2)	3845.9 (4.3)	71Ge (499.8)
3745.3 (2.3)	75Ge (574.7)	3793.7 (0.5)	136Ba (818.6)	3846.0 (0.7)	56Mn (26.6)
3745.6 (0.2)	57Fe (7631.6)	3793.7 (<0.1)	204Tl (139.9)	3846.8 (3.8)	75Ge (574.7)
3746.0 (3.8)	159Gd (5942.0)	3795.0 (0.4)	70Ga (508.4)	3847.0 (3.0)	147Nd (314.7)
3746.2 (14.9)	233Th (3473.0)	3796.1 (10.9)	249Cm (1408.3)	3848.5 (0.1)	196Pt (356.1)
3747.3 (2.6)	147Nd (314.7)	3797.7 (1.4)	158Gd (181.9)	3848.6 (32.6)	235U (4155.1)
3747.6 (0.4)	196Pt (356.1)	3798.7 (0.2)	56Mn (26.6)	3848.7 (9.5)	187W (5261.8)
3747.9 (<0.1)	143Nd (742.1)	3798.7 (7.0)	193Os (5276.0)	3849.0 (11.6)	155Sm (4988.0)
3748.3	81Se	3799.7 (0.3)	196Pt (356.1)	3850.0 (1.0)	72Ga (145.1)
3749.0 (0.8)	165Dy (108.2)	3800.7 (0.2)	68Zn (1077.4)	3851.2 (<0.1)	61Ni (7819.6)
3749.4 (<0.1)	200Hg (5276.0)	3800.7 (<0.1)	239U (133.8)	3852.4 (2.3)	73Ge (326.0)
3750.7 (31.6)	249Cm (1408.3)	3801.6 (0.2)	55Cr (6246.4)	3854.2	175Yb
3751.0 (100.0)	152Sm (3751.0)	3802.0 (3.9)	235U (4155.1)	3854.5 (2.8)	249Cm (1408.3)
3752.3 (2.4)	56Mn (26.6)	3802.7 (10.3)	233Th (3473.0)	3854.9 (3.6)	57Fe (7631.6)
3753.0 (2.3)	171Yb (6614.7)	3804.0 (2.0)	72Ga (145.1)	3855.1 (0.6)	78Se (613.8)
3753.3 (3.2)	193Os (5276.0)	3804.9 (2.4)	187W (5261.8)	3857.4 (1.6)	191Os (5147.1)
3754.9 (1.0)	147Nd (314.7)	3806.1 (0.1)	68Zn (1077.4)	3857.8 (3.3)	56Mn (26.6)
3755.1 (17.5)	233Th (3473.0)	3806.4 (1.2)	48Ti (983.7)	3858.2 (11.6)	235U (4155.1)
3756.7 (<0.1)	143Nd (742.1)	3808.6 (2.3)	142Pr (176.9)	3859.0 (1.4)	72Ga (145.1)
3757.3	175Yb	3809.5 (8.2)	235U (4155.1)	3859.4 (1.6)	142Pr (176.9)
3758.7 (17.5)	151Nd (4487.8)	3810.0 (2.3)	171Yb (6614.7)	3859.5 (5.5)	71Ge (499.8)
3758.8 (0.2)	80Br (37.1)	3810.8 (1.8)	71Ge (499.8)	3859.8 (0.9)	51Cr (749.0)
3759.0 (7.2)	140La (5097.9)	3813.7 (9.8)	235U (4155.1)	3860.0 (2.1)	62Ni (1172.8)
3759.0 (2.2)	184W (111.2)	3814.0 (0.6)	72Ga (145.1)	3860.7 (0.7)	136Ba (818.6)
3760.0 (0.4)	70Ga (508.4)	3815.0 (5.9)	56Mn (26.6)	3862.0 (10.9)	233Th (3473.0)
3760.8 (3.8)	187W (5261.8)	3815.1 (10.3)	191Os (5147.1)	3862.8 (<0.1)	187W (5261.8)
3761.2 (0.3)	143Nd (742.1)	3815.1 (11.9)	129Te (3721.8)	3863.5 (1.9)	52V (125.1)
3761.4 (4.2)	75Ge (574.7)	3815.8 (1.5)	136Ba (1435.6)	3863.6 (1.0)	54Cr (8884.1)
3761.6 (0.3)	196Pt (356.1)	3815.9 (0.1)	196Pt (356.1)	3864.3 (2.3)	184W (111.2)
3761.7 (7.1)	105Ru (143.2)	3815.9 (0.4)	239U (133.8)	3865.0 (0.7)	70Ga (508.4)
3762.1 (12.4)	101Mo (180.7)	3816.1 (0.2)	80Br (37.1)	3865.0 (4.4)	177Yb (151.6)
3762.1 (0.1)	204Tl (139.9)	3816.3 (0.4)	68Zn (1077.4)	3865.6 (0.1)	204Tl (139.9)
3764.0 (0.4)	72Ga (145.1)	3817.9 (0.3)	239U (133.8)	3866.8 (0.2)	68Zn (1077.4)
3764.4 (0.3)	51Cr (749.0)	3818.6 (7.2)	193Os (5276.0)	3867.2 (2.2)	233Th (3473.0)
3768.7 (5.6)	147Nd (314.7)	3820.4 (3.2)	56Mn (26.6)	3867.7 (40.3)	111Pd (4902.5)
3771.9 (3.3)	142Pr (176.9)	3821.0 (0.5)	165Dy (108.2)	3868.3 (<0.1)	200Hg (367.9)
3772.0 (0.5)	165Dy (108.2)	3821.6 (2.0)	140La (5097.9)	3868.5 (0.8)	138Ba (1435.6)
3772.3 (0.6)	68Zn (1077.4)	3821.6 (0.2)	143Nd (742.1)	3869.8 (0.3)	61Ni (7819.6)
3772.8 (0.7)	56Mn (26.6)	3822.0 (4.5)	171Yb (6614.7)	3871.7 (8.0)	242Pu (5476.9)
3773.0 (0.3)	88Sr (1836.1)	3823.6 (0.2)	68Zn (1077.4)	3871.7 (<0.1)	187W (5261.8)
3773.0 (16.4)	155Sm (4988.0)	3823.8	175Yb	3873.0 (0.7)	56Mn (26.6)
3773.0 (0.2)	80Br (37.1)	3824.7 (<0.1)	63Ni (6838.2)	3873.3 (7.2)	185W (4573.6)
3773.6 (0.6)	65Ni (6034.0)	3826.1 (2.1)	75Ge (574.7)	3873.9 (0.6)	239U (133.8)
3774.0 (1.3)	52V (125.1)	3826.5 (1.1)	158Gd (181.9)	3874.1 (0.7)	68Zn (1077.4)
3774.0 (0.4)	70Ga (508.4)	3826.6 (1.1)	142Pr (176.9)	3876.6 (0.4)	68Zn (1077.4)
3774.8 (3.4)	187W (5261.8)	3826.8 (0.3)	88Sr (1836.1)	3876.7 (0.7)	140La (5097.9)
3775.0 (0.4)	72Ga (145.1)	3826.9 (<0.1)	204Tl (139.9)	3879.1 (<0.1)	204Tl (139.9)
3775.8 (0.9)	158Gd (181.9)	3827.0 (0.9)	70Ga (508.4)	3880.8 (0.2)	88Sr (1836.1)
3776.2 (1.5)	105Ru (143.2)	3827.9 (1.7)	191Os (5147.1)	3881.6 (0.3)	196Pt (356.1)
3776.2	175Yb	3828.0 (0.7)	62Ni (1172.8)	3881.8 (1.8)	58Fe (810.5)
3776.4 (4.5)	191Os (5147.1)	3828.2 (<0.1)	200Hg (367.9)	3882.0 (29.5)	155Sm (4988.0)
3776.5 (2.7)	184W (111.2)	3829.3 (0.2)	80Br (37.1)	3882.7 (26.0)	182Ta (270.4)
3776.5 (0.4)	196Pt (356.1)	3832.0 (13.8)	161Gd (5280.0)	3882.9 (2.4)	233Th (3473.0)
3776.6 (20.0)	238Np (5352.0)	3832.7 (<0.1)	92Zr (934.5)	3883.7 (0.8)	56Mn (26.6)
3777.0 (0.6)	68Zn (1077.4)	3833.1 (1.0)	68Zn (1077.4)	3884.0 (10.9)	161Gd (5280.0)
3777.3 (12.1)	151Nd (4487.8)	3834.8 (12.6)	235U (4155.1)	3884.0	175Yb
3777.7 (0.7)	57Fe (7631.6)	3837.0 (0.4)	56Mn (26.6)	3884.0 (<0.1)	241Pu (4276.5)
3778.4 (7.1)	101Mo (180.7)	3837.2 (0.8)	52V (125.1)	3884.7 (0.9)	171Er (197.9)
3782.9	175Yb	3838.5 (0.2)	68Zn (1077.4)	3884.7 (67.4)	235U (4155.1)
3783.6 (1.8)	56Mn (26.6)	3838.5 (7.1)	101Mo (180.7)	3884.8 (<0.1)	187W (5261.8)
3785.0 (4.9)	159Gd (5942.0)	3838.5 (1.0)	191Os (5147.1)	3885.2 (0.9)	165Dy (108.2)

Table I. CAPTURE γ 's - energy sorted (cont.)

Energy (keV) (χ_{17})	Nucleus (Strongest γ)	Energy (keV) (χ_{17})	Nucleus (Strongest γ)	Energy (keV) (χ_{17})	Nucleus (Strongest γ)
3885.5 (0.3)	68Zn (1077.4)	3941.6 (14.0)	238Np (5352.0)	3982.6 (1.3)	184W (111.2)
3889.1 (4.1)	142Pr (176.9)	3942.9 (0.9)	204Tl (139.9)	3982.8 (5.7)	239U (133.8)
3889.8 (1.3)	48Ti (983.7)	3944.0 (0.5)	70Ga (508.4)	3983.4 (<0.1)	136Ba (818.6)
3891.8 (<0.1)	200Hg (367.9)	3944.8 (<0.1)	241Pu (4276.5)	3985.6 (0.6)	142Pr (176.9)
3893.1 (10.5)	235U (4155.1)	3946.4 (42.4)	233Th (3473.0)	3987.0 (0.5)	58Fe (810.5)
3893.9 (2.4)	147Nd (314.7)	3946.7 (0.1)	68Zn (1077.4)	3987.0 (0.2)	165Dy (108.2)
3893.9 (2.7)	71Ge (499.8)	3946.9 (0.7)	196Pt (356.1)	3987.9 (<0.1)	241Pu (4276.5)
3894.0 (1.2)	72Ga (145.1)	3947.0 (0.8)	72Ga (145.1)	3989.0 (2.0)	72Ga (145.1)
3895.2 (100.0)	77Ge (3895.2)	3947.0 (0.5)	165Dy (108.2)	3989.2 (1.5)	158Gd (181.9)
3897.0 (0.5)	56Mn (26.6)	3948.5 (0.2)	80Br (37.1)	3991.1 (4.4)	71Ge (499.8)
3898.4 (6.0)	73Ge (326.0)	3950.0 (<0.1)	200Hg (367.9)	3991.4 (5.3)	239U (133.8)
3898.5 (<0.1)	61Ni (7819.6)	3950.1 (0.4)	61Ni (7819.6)	3991.7 (7.2)	143Ce (4337.8)
3898.9 (0.3)	51Cr (749.0)	3950.2 (1.6)	65Ni (6034.0)	3992.8 (2.9)	193Os (5276.0)
3899.0 (<0.1)	77Se (238.9)	3950.4 (16.8)	101Mo (180.7)	3995.3 (7.7)	238Np (5352.0)
3900.0 (<0.1)	63Ni (6838.2)	3950.8 (0.6)	147Nd (314.7)	3995.4 (16.8)	235U (4155.1)
3900.8 (0.4)	68Zn (1077.4)	3951.0 (4.4)	159Gd (5942.0)	3996.2 (10.7)	45Ca (174.3)
3900.8 (14.5)	193Os (5276.0)	3951.8 (0.3)	68Zn (1077.4)	3996.2 (0.7)	143Nd (742.1)
3900.9 (0.5)	143Nd (742.1)	3951.8 (0.2)	80Br (37.1)	3997.5 (0.3)	80Br (37.1)
3901.3 (7.1)	140La (5097.9)	3952.0 (0.6)	58Fe (810.5)	3997.8 (1.5)	142Pr (176.9)
3901.7 (0.1)	56Mn (26.6)	3952.0 (3.1)	140La (5097.9)	4000.5 (16.8)	235U (4155.1)
3902.0 (10.7)	155Sm (4988.0)	3953.0 (4.1)	71Ge (499.8)	4001.1 (0.3)	56Mn (26.6)
3902.1 (0.1)	204Tl (139.9)	3953.0 (35.2)	152Sm (3751.0)	4004.0 (12.8)	238Np (5352.0)
3902.3 (19.0)	182Ta (270.4)	3953.2 (0.5)	75Se (286.6)	4004.2 (1.7)	77Se (238.9)
3902.8 (5.5)	187W (5261.8)	3953.4 (0.1)	239U (133.8)	4005.7 (<0.1)	239U (133.8)
3903.0 (2.0)	47Ti (159.0)	3953.7 (3.9)	191Os (5147.1)	4006.0 (0.6)	58Fe (810.5)
3903.0 (0.4)	75Se (286.6)	3955.0 (0.3)	56Mn (26.6)	4006.0 (<0.1)	239U (133.8)
3906.0 (1.2)	55Fe (9297.8)	3955.8 (2.3)	184W (111.2)	4007.2 (0.3)	56Mn (26.6)
3906.0 (0.6)	72Ga (145.1)	3957.3 (0.2)	204Tl (139.9)	4007.6 (0.4)	196Pt (356.1)
3906.1 (0.3)	80Br (37.1)	3958.6 (0.3)	68Zn (1077.4)	4008.0 (3.7)	73Ge (326.0)
3907.6 (0.3)	204Tl (139.9)	3958.6	179Hf	4008.5 (5.6)	77Ge (3895.2)
3907.7 (4.6)	142Pr (176.9)	3958.7 (0.3)	171Er (197.9)	4008.6	179Hf
3908.2 (15.9)	177Yb (151.6)	3959.1 (0.2)	80Br (37.1)	4008.9 (12.1)	103Ru (174.0)
3909.1 (22.1)	255U (4155.1)	3960.0 (0.8)	55Fe (9297.8)	4009.1 (0.8)	204Tl (139.9)
3910.1 (2.0)	184W (111.2)	3960.0 (0.6)	165Dy (108.2)	4009.3 (4.6)	163Dy (351.1)
3913.1 (<0.1)	239U (133.8)	3961.0 (2.0)	47Ti (159.0)	4009.5 (1.3)	75Se (286.6)
3913.8 (0.2)	136Ba (818.6)	3961.0 (0.8)	72Ga (145.1)	4009.7 (2.6)	142Pr (176.9)
3913.9 (0.3)	68Zn (1077.4)	3961.7 (0.3)	56Mn (26.6)	4010.8 (10.1)	151Nd (4487.8)
3915.0 (1.0)	52V (125.1)	3962.0 (2.4)	159Gd (5942.0)	4011.3 (19.8)	145Nd (852.8)
3915.1 (57.9)	235U (4155.1)	3962.1 (0.4)	196Pt (356.1)	4012.0 (0.5)	55Fe (9297.8)
3916.4 (0.2)	143Nd (742.1)	3962.9 (2.4)	184W (111.2)	4012.2 (3.8)	75Ge (574.7)
3918.1	179Hf	3964.6 (2.3)	138Ba (1435.6)	4012.5 (1.4)	57Fe (7631.6)
3918.2 (<0.1)	239U (133.8)	3965.1 (5.1)	187W (5261.8)	4012.6 (0.6)	140La (5097.9)
3920.0 (3.4)	69Zn (1008.0)	3966.5 (0.2)	68Zn (1077.4)	4013.4 (3.7)	142Pr (176.9)
3920.0 (0.8)	70Ga (508.4)	3967.8 (<0.1)	136Ba (818.6)	4015.7 (0.9)	48Ti (983.7)
3920.5 (3.4)	142Pr (176.9)	3969.0 (0.8)	72Ga (145.1)	4016.6 (5.5)	233Th (3473.0)
3920.5 (4.0)	187W (5261.8)	3970.9 (0.4)	68Zn (1077.4)	4017.0 (44.0)	152Sm (3751.0)
3921.0 (10.0)	47Ti (159.0)	3971.6 (1.3)	56Mn (26.6)	4017.4 (0.9)	204Tl (139.9)
3921.3 (0.6)	158Gd (181.9)	3971.8 (7.2)	233Th (3473.0)	4017.6 (<0.1)	200Hg (367.9)
3923.0 (1.1)	49Ti (1381.5)	3972.0 (1.6)	62Ni (1172.8)	4017.7 (<0.1)	241Pu (4276.5)
3924.0 (1.0)	184W (111.2)	3972.0 (2.1)	69Zn (1008.0)	4018.0 (0.6)	72Ga (145.1)
3924.8 (0.3)	80Br (37.1)	3972.1 (0.7)	158Gd (181.9)	4018.0 (0.4)	76As (165.0)
3925.0 (13.1)	151Nd (4487.8)	3972.7 (<0.1)	241Pu (4276.5)	4018.0 (0.2)	165Dy (108.2)
3925.1 (0.7)	171Er (197.9)	3973.1 (0.7)	143Ce (4337.8)	4018.0	179Hf
3927.1 (2.4)	56Mn (26.6)	3973.8 (0.3)	204Tl (139.9)	4018.2 (3.4)	187W (5261.8)
3927.4 (0.8)	54Cr (8884.1)	3973.9 (1.0)	140La (5097.9)	4019.0 (0.3)	148Sm (550.0)
3927.9 (0.3)	196Pt (356.1)	3974.0 (0.6)	177Yb (151.6)	4019.0 (7.5)	155Sm (4988.0)
3929.2	175Yb (6614.7)	3974.4 (6.8)	171Yb (6614.7)	4019.6 (0.6)	75Se (286.6)
3930.0 (1.2)	72Ga (145.1)	3975.2 (0.5)	88Sr (1836.1)	4020.5 (0.7)	51Cr (749.0)
3932.2 (<0.1)	187W (5261.8)	3976.0 (1.0)	72Ga (145.1)	4020.5 (1.6)	88Sr (1836.1)
3932.4	179Hf	3977.0 (0.6)	55Cr (6246.4)	4021.6 (1.1)	77Se (238.9)
3933.2 (2.9)	233Th (3473.0)	3978.0 (2.2)	52V (125.1)	4022.9 (6.6)	249Cm (1408.3)
3934.9 (3.5)	75Ge (574.7)	3978.2	175Yb	4023.1 (2.5)	147Nd (314.7)
3935.1 (0.1)	68Zn (1077.4)	3979.1 (13.1)	238Np (5352.0)	4024.0 (2.5)	68Zn (1077.4)
3937.0 (0.1)	148Sm (550.0)	3979.4 (2.1)	56Mn (26.6)	4024.4 (0.4)	80Br (37.1)
3938.9 (7.1)	101Mo (180.7)	3979.5 (1.5)	75Ge (574.7)	4024.5 (0.6)	56Mn (26.6)
3939.0 (30.0)	152Sm (3751.0)	3980.2 (0.1)	196Pt (356.1)	4024.7 (32.6)	235U (4155.1)
3939.0 (22.1)	235U (4155.1)	3980.3 (<0.1)	187W (5261.8)	4025.0 (2.7)	184W (111.2)
3939.9 (1.7)	191Os (5147.1)	3980.6 (20.6)	193Os (5276.0)	4025.2 (0.7)	196Pt (356.1)
3941.0 (0.8)	72Ga (145.1)	3981.2 (2.0)	235U (4155.1)	4025.7 (14.2)	103Ru (174.0)
3941.5 (2.8)	142Pr (176.9)	3982.1 (33.0)	182Ta (270.4)	4028.0 (1.8)	72Ga (145.1)

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV (χ l γ)	Nucleus (Strongest γ)	E γ keV (χ l γ)	Nucleus (Strongest γ)	E γ keV (χ l γ)	Nucleus (Strongest γ)
4028.0 (7.5)	155Sm (4988.0)	4069.9 (<0.1)	200Hg (367.9)	4108.6 (0.8)	61Ni (7819.6)
4028.3 (4.3)	68Zn (1077.4)	4071.0 (4.8)	235U (4155.1)	4109.8 (0.1)	68Zn (1077.4)
4029.8 (0.9)	56Mn (26.6)	4071.2 (0.6)	78Se (613.8)	4109.9 (0.8)	163Dy (351.1)
4031.1 (1.3)	147Nd (314.7)	4071.7 (<0.1)	239U (133.8)	4110.4 (1.9)	56Mn (26.6)
4031.9 (11.6)	235U (4155.1)	4072.0 (5.1)	69Zn (1008.0)	4111.8 (0.1)	80Br (37.1)
4032.8 (5.7)	71Ge (499.8)	4072.0 (0.5)	76As (165.0)	4112.0 (6.0)	161Gd (5280.0)
4033.0 (0.5)	70Ga (508.4)	4072.1 (1.0)	48Ti (983.7)	4112.2 (9.5)	235U (4155.1)
4033.1 (0.5)	78Se (613.8)	4072.9 (0.7)	142Pr (176.9)	4112.5 (19.5)	238Np (5352.0)
4033.1 (12.0)	182Ta (270.4)	4073.0 (13.4)	233Th (3473.0)	4113.4 (1.1)	142Pr (176.9)
4033.6 (1.5)	184W (111.2)	4073.2 (<0.1)	187W (5261.8)	4115.0 (<0.1)	200Hg (367.9)
4033.9 (1.3)	77Se (238.9)	4074.5 (0.3)	80Br (37.1)	4116.1 (1.6)	204Tl (139.9)
4035.8 (0.9)	56Mn (26.6)	4075.7 (3.2)	71Ge (499.8)	4117.1 (0.3)	80Br (37.1)
4035.8 (2.6)	163Dy (351.1)	4076.0 (<0.1)	56Mn (26.6)	4117.3 (7.6)	52V (125.5)
4035.9 (0.3)	204Tl (139.9)	4076.1 (1.5)	138Ba (1435.6)	4117.7 (0.6)	143Nd (742.6)
4036.6 (1.9)	233Th (3473.0)	4076.6 (6.3)	73Ge (326.0)	4118.1 (9.0)	182Ta (270.4)
4038.7 (0.3)	80Br (37.1)	4076.7 (1.9)	105Ru (143.2)	4118.3 (13.4)	238Np (5352.0)
4039.6 (43.0)	87Kr (1475.9)	4076.9 (0.9)	52V (125.1)	4118.7 (0.3)	239U (133.8)
4039.6 (1.2)	184W (111.2)	4077.1 (0.2)	68Zn (1077.4)	4118.8 (3.5)	187W (5261.8)
4041.0 (0.3)	76As (165.0)	4077.5 (3.7)	163Dy (351.1)	4120.0 (0.3)	76As (165.0)
4041.1 (0.2)	196Pt (356.1)	4077.8 (9.1)	151Nd (4487.8)	4120.2 (8.2)	171Yb (6614.7)
4042.4 (11.5)	238Np (5352.0)	4078.2 (0.7)	204Tl (139.9)	4120.4 (0.4)	68Zn (1077.4)
4042.8 (10.0)	129Te (3721.8)	4078.8 (3.4)	145Sm (5863.0)	4120.6 (3.7)	184W (111.2)
4043.5 (0.2)	61Ni (7819.6)	4079.3 (0.4)	80Br (37.1)	4121.6 (0.3)	196Pt (356.1)
4044.1 (0.6)	55Cr (6246.4)	4079.6 (16.6)	238Np (5352.0)	4123.2 (2.1)	165Dy (108.2)
4044.5 (3.1)	140La (5097.9)	4080.0 (0.9)	58Fe (810.5)	4123.3 (15.3)	238Np (5352.0)
4045.0 (10.9)	159Gd (5942.0)	4080.4 (0.3)	239U (133.8)	4125.5 (2.0)	140La (5097.9)
4045.1 (18.2)	233Th (3473.0)	4081.0 (0.5)	165Dy (108.2)	4127.0 (0.2)	72Ga (145.1)
4045.7 (30.0)	182Ta (270.4)	4081.4 (0.1)	61Ni (7819.6)	4127.7 (0.3)	56Mn (26.6)
4046.4 (0.7)	184W (111.2)	4082.0 (2.1)	138Ba (1435.6)	4127.8 (0.2)	204Tl (139.9)
4047.7 (1.4)	138Ba (1435.6)	4082.1 (4.9)	193Os (5276.0)	4128.1 (1.0)	163Dy (351.1)
4048.0 (13.3)	101Mo (180.7)	4082.2 (1.5)	184W (111.2)	4129.0 (2.0)	191Os (5147.1)
4048.1 (0.5)	56Mn (26.6)	4082.9 (0.5)	68Zn (1077.4)	4129.6 (0.4)	175Yb (6614.7)
4049.1 (1.2)	142Pr (176.9)	4083.8 (6.0)	187W (5261.8)	4130.0 (5.9)	155Sm (4988.0)
4049.7 (<0.1)	239U (133.8)	4084.0 (0.5)	48Ti (983.7)	4130.4 (3.4)	142Pr (176.9)
4050.0 (1.0)	72Ga (145.1)	4084.0 (0.4)	76As (165.0)	4131.9 (0.3)	56Mn (26.6)
4050.6 (1.9)	179Hf (26.6)	4084.5 (0.2)	56Mn (26.6)	4132.1 (0.5)	104Rh (180.9)
4051.5 (0.7)	56Mn (26.6)	4084.8 (0.7)	196Pt (356.1)	4132.4 (0.2)	68Zn (1077.4)
4053.4 (0.1)	68Zn (1077.4)	4088.5 (0.2)	56Mn (26.6)	4132.7 (0.8)	54Cr (8884.1)
4053.4 (7.5)	193Os (5276.0)	4088.5 (2.2)	142Pr (176.9)	4133.1 (0.1)	51Cr (749.0)
4053.9 (28.0)	182Ta (270.4)	4089.0 (41.0)	155Sm (4988.0)	4133.7 (0.5)	81Se (6838.2)
4054.3 (1.9)	147Nd (314.7)	4090.0 (13.0)	161Gd (5280.0)	4135.7 (0.6)	77Se (238.9)
4054.5 (1.2)	163Dy (351.1)	4090.6 (1.4)	158Gd (181.9)	4136.0 (0.4)	76As (165.0)
4054.6 (3.1)	171Er (197.9)	4090.7 (0.3)	239U (133.8)	4136.1 (4.0)	187W (5261.8)
4055.0 (0.5)	210Bi (6838.2)	4090.9 (1.9)	233Th (3473.0)	4136.9 (12.3)	171Yb (6614.7)
4055.7 (<0.1)	63Ni (6838.2)	4094.5 (0.7)	184W (111.2)	4137.0 (7.2)	59Fe (287.0)
4057.0 (14.6)	155Sm (4988.0)	4094.9 (<0.1)	200Hg (367.9)	4137.0 (0.3)	70Ga (508.4)
4057.4 (0.2)	51Cr (749.0)	4095.3 (13.5)	238Np (5352.0)	4137.0 (2.5)	191Os (5147.1)
4058.0 (0.3)	80Br (37.1)	4095.9 (1.6)	138Ba (1435.6)	4137.2 (1.4)	136Ba (818.6)
4058.1 (1.2)	179Hf (26.6)	4096.1 (60.0)	139Ba (627.3)	4138.0 (39.6)	69Zn (1008.0)
4058.4 (1.2)	158Gd (181.9)	4096.3 (0.4)	78Se (613.8)	4138.4 (17.0)	182Ta (270.4)
4059.0 (1.5)	77Se (238.9)	4097.0 (0.4)	76As (165.0)	4138.6 (0.9)	175Yb (6614.7)
4059.5 (1.2)	184W (111.2)	4097.5 (4.0)	185W (4573.6)	4139.1 (0.1)	68Zn (1077.4)
4059.7 (6.7)	193Os (5276.0)	4099.0 (1.1)	205Pb (6731.5)	4139.9 (3.2)	58Fe (810.5)
4060.5 (31.7)	239U (133.8)	4101.8 (2.0)	173Yb (399.4)	4141.2 (0.5)	78Se (613.8)
4060.7 (4.1)	140La (5097.9)	4102.0 (6.0)	159Gd (5942.0)	4142.5 (0.5)	63Ni (6838.2)
4061.0 (1.2)	62Ni (1172.8)	4102.0 (0.6)	210Bi (6838.2)	4142.6 (0.9)	158Gd (181.9)
4062.0 (0.2)	58Fe (810.5)	4102.3 (12.0)	182Ta (270.4)	4143.9 (32.0)	101Ru (6271.4)
4062.3 (6.1)	73Ge (326.0)	4102.6 (0.1)	80Br (37.1)	4144.8 (9.1)	171Yb (6614.7)
4062.7 (<0.1)	68Zn (1077.4)	4102.6 (1.4)	184W (111.2)	4145.0 (7.4)	161Gd (5280.0)
4063.2 (2.4)	191Os (5147.1)	4103.4 (0.7)	77Se (238.9)	4146.2 (0.2)	68Zn (1077.4)
4065.2 (1.3)	105Ru (143.2)	4103.4 (61.1)	235U (4155.1)	4146.5 (3.5)	184W (111.2)
4067.2 (1.6)	239U (133.8)	4103.5 (30.2)	238Np (5352.0)	4150.0 (2.6)	177Yb (151.6)
4068.0 (1.2)	72Ga (145.1)	4103.7 (2.2)	55Mn (26.6)	4150.6 (12.1)	151Nd (4487.8)
4068.1 (1.1)	77Se (238.9)	4103.8 (2.7)	191Os (5147.1)	4150.9 (0.8)	61Ni (7819.6)
4068.3 (<0.1)	56Mn (26.6)	4104.6 (3.6)	233Th (3473.0)	4151.3 (85.7)	241Pu (4276.5)
4069.0 (0.4)	165Dy (108.2)	4106.0 (15.3)	69Zn (1008.0)	4152.0 (0.3)	70Ga (508.4)
4069.0 (6.7)	193Os (5276.0)	4106.0 (3.1)	140La (5097.9)	4152.0 (0.5)	165Dy (108.2)
4069.0 (0.3)	204Tl (139.9)	4106.3 (38.1)	101Mo (180.7)	4152.4 (0.2)	196Pt (356.1)
4069.3 (2.0)	147Nd (314.7)	4106.7 (6.8)	90Y (776.7)	4155.0 (0.3)	80Br (37.1)
4069.4 (0.6)	68Zn (1077.4)			4155.1 (3.0)	71Ge (499.8)

Table I. CAPTURE γ 's - energy sorted (cont.)

Energy (keV) (% γ)	Nucleus (Strongest γ)	Energy (keV) (% γ)	Nucleus (Strongest γ)	Energy (keV) (% γ)	Nucleus (Strongest γ)
4155.1 (100.0)	235U (4155.1)	4189.0 (1.0)	72Ga (145.1)	4230.0 (0.4)	72Ga (145.1)
4156.0 (3.6)	155Sm (4988.0)	4190.0 (44.3)	155Sm (4988.0)	4230.6 (2.0)	56Mn (26.6)
4157.0 (15.4)	151Sm (5288.0)	4190.5 (1.8)	184W (111.2)	4232.0 (48.1)	238Np (5352.0)
4157.4 (28.1)	238Np (5352.0)	4191.1 (0.2)	80Br (37.1)	4233.0 (<0.1)	54Cr (8884.1)
4157.9 (0.3)	68Zn (1077.4)	4191.6 (0.2)	56Mn (26.6)	4233.1 (<0.1)	143Nd (742.1)
4157.9 (23.0)	182Ta (270.4)	4191.6 (1.9)	235U (4155.1)	4233.9 (0.5)	104Rh (180.9)
4158.4 (5.6)	187W (5261.8)	4192.5 (0.7)	140La (5097.9)	4235.5 (0.4)	80Br (37.1)
4158.6 (0.7)	104Rh (180.9)	4193.2 (18.6)	77Ge (3895.2)	4237.8 (1.1)	147Nd (314.7)
4159.0 (1.0)	76As (165.0)	4193.4 (0.6)	52V (125.1)	4237.9	179Hf
4160.0 (4.8)	184W (111.2)	4194.5 (4.1)	75Ge (574.7)	4239.8 (0.4)	61Ni (7819.6)
4160.4 (3.1)	142Pr (176.9)	4195.2	175Yb	4241.3 (7.7)	171Yb (6614.7)
4160.9 (1.5)	1910s (5147.1)	4196.8 (0.2)	68Zn (1077.4)	4241.9 (0.2)	68Zn (1077.4)
4160.9 (0.4)	204Tl (139.9)	4196.8 (17.0)	238Np (5352.0)	4241.9 (0.2)	104Rh (180.9)
4161.9	175Yb	4197.0 (2.0)	72Ga (145.1)	4242.7 (0.5)	140La (5097.9)
4162.0 (1.3)	171Er (197.9)	4197.5 (3.3)	204Tl (139.9)	4242.8 (3.7)	184W (111.2)
4162.2 (0.8)	55Cr (6246.4)	4197.9 (4.8)	235U (4155.1)	4243.5 (18.1)	249Cm (1408.3)
4162.8 (0.9)	75Se (286.6)	4198.2 (9.9)	1930s (5276.0)	4244.1 (<0.1)	200Hg (367.9)
4162.8 (0.4)	80Br (37.1)	4199.2 (0.9)	56Mn (26.6)	4244.4 (1.5)	77Se (238.9)
4163.0 (0.2)	72Ga (145.1)	4202.0 (15.6)	233Th (3473.0)	4244.5 (40.0)	101Ru (6271.4)
4163.3 (15.0)	145Nd (852.8)	4202.2 (0.1)	196Pt (356.1)	4245.0 (36.4)	137Ba (4712.0)
4165.0	210Bi	4202.4 (0.4)	77Se (238.9)	4245.3 (0.1)	80Br (37.1)
4165.3 (0.6)	104Rh (180.9)	4204.1 (6.9)	151Nd (4487.8)	4245.6 (4.1)	205Pb (6731.5)
4166.1 (1.9)	205Pb (6731.5)	4205.0 (4.0)	66Cu (185.9)	4246.0 (0.2)	165Dy (108.2)
4166.2 (3.4)	138Ba (1435.6)	4206.0 (0.5)	70Ga (508.4)	4246.5 (17.1)	177Yb (151.6)
4166.5 (2.0)	184W (111.2)	4206.2 (0.1)	143Nd (742.1)	4246.9 (14.9)	233Th (3473.0)
4166.7 (0.1)	68Zn (1077.4)	4206.6 (2.0)	1910s (5147.1)	4247.0 (0.5)	76As (165.0)
4167.1 (1.3)	163Dy (351.1)	4207.5 (0.6)	177Yb (151.6)	4247.4 (<0.1)	241Pu (4276.5)
4167.1 (1.0)	173Yb (399.4)	4207.9 (4.8)	60Co (229.8)	4248.8 (0.7)	104Rh (180.9)
4167.9 (0.4)	196Pt (356.1)	4208.8 (0.4)	196Pt (356.1)	4249.1 (4.4)	142Pr (176.9)
4168.0 (38.9)	235U (4155.1)	4210.8 (2.0)	184W (111.2)	4249.6 (21.7)	187W (5261.8)
4168.4 (5.0)	171Yb (6614.7)	4211.0 (10.4)	151Sm (5288.0)	4250.0 (2.6)	72Ga (145.1)
4169.0 (0.2)	72Ga (145.1)	4212.0 (15.6)	238Np (5352.0)	4250.1 (7.0)	1930s (5276.0)
4170.0 (<0.1)	148Sm (550.0)	4213.8 (3.1)	233Th (3473.0)	4251.0 (15.4)	151Sm (5288.0)
4170.9	179Hf	4213.9 (0.8)	173Yb (399.4)	4251.7 (1.2)	56Mn (26.6)
4171.0	210Bi	4214.7 (3.5)	235U (4155.1)	4251.7 (0.3)	80Br (37.1)
4172.7 (22.0)	182Ta (270.4)	4215.0 (0.4)	72Ga (145.1)	4252.0 (5.2)	155Sm (4988.0)
4173.3 (2.5)	45Ca (174.3)	4215.5 (7.9)	151Nd (4487.8)	4252.1 (4.0)	138Ba (1435.6)
4173.3 (3.9)	142Pr (176.9)	4215.9 (0.2)	68Zn (1077.4)	4254.2	179Hf
4173.7 (2.1)	77Se (238.9)	4216.2 (0.4)	104Rh (180.9)	4255.0 (21.3)	161Gd (5280.0)
4173.8 (51.6)	51Ti (1166.6)	4216.6 (9.0)	105Ru (143.2)	4255.7 (0.8)	140La (5097.9)
4173.9 (0.2)	56Mn (26.6)	4217.0 (0.3)	76As (165.0)	4256.3 (0.4)	196Pt (356.1)
4174.0 (1.3)	48Ti (983.7)	4217.0 (10.5)	242Pu (5476.9)	4256.5 (0.2)	68Zn (1077.4)
4174.3 (73.1)	111Pd (4902.5)	4217.9 (5.8)	73Ge (326.0)	4256.8 (0.6)	104Rh (180.9)
4174.6 (23.7)	238Np (5352.0)	4218.2 (0.9)	140La (5097.9)	4257.0 (0.5)	76As (165.0)
4174.7	175Yb	4218.3 (1.5)	184W (111.2)	4257.0	210Bi
4174.8 (16.0)	105Ru (143.2)	4218.7 (32.7)	185W (4573.6)	4257.5 (2.6)	1910s (5147.1)
4174.8 (1.9)	233Th (3473.0)	4218.8 (14.7)	57Fe (7631.6)	4259.0 (1.8)	72Ga (145.1)
4174.9 (0.6)	140La (5097.9)	4219.0 (29.3)	249Cm (1408.3)	4259.5 (0.8)	77Se (238.9)
4176.0 (<0.1)	63Ni (6838.2)	4219.5 (0.1)	55Cr (6246.4)	4261.2 (0.2)	68Zn (1077.4)
4176.0 (0.5)	76As (165.0)	4219.8 (27.0)	182Ta (270.4)	4261.4 (0.3)	204Tl (139.9)
4177.9 (<0.1)	200Hg (367.9)	4220.5 (1.0)	142Pr (176.9)	4262.4 (15.8)	235U (4155.1)
4178.7 (0.7)	205Pb (6731.5)	4221.0 (0.1)	148Sm (550.0)	4262.9 (0.4)	78Se (613.8)
4180.0 (1.2)	55Fe (9297.8)	4221.0 (4.7)	159Gd (5942.0)	4264.0 (<0.1)	54Cr (8884.1)
4180.0 (0.7)	70Ga (508.4)	4221.4 (5.9)	1910s (5147.1)	4266.0 (0.2)	165Dy (108.2)
4181.0 (6.6)	155Sm (4988.0)	4221.7 (0.2)	68Zn (1077.4)	4267.0 (0.8)	72Ga (145.1)
4181.4 (0.4)	104Rh (180.9)	4222.6 (0.2)	104Rh (180.9)	4268.1 (3.0)	163Dy (351.1)
4182.2 (6.2)	185W (4573.6)	4223.2 (0.2)	196Pt (356.1)	4268.5 (3.8)	56Mn (26.6)
4184.0 (2.3)	184W (111.2)	4223.5 (4.1)	56Mn (26.6)	4268.6 (9.1)	151Nd (4487.8)
4184.6 (18.0)	151Nd (4487.8)	4223.9 (10.5)	235U (4155.1)	4269.0 (1.2)	48Ti (983.7)
4185.0 (0.3)	58Fe (810.5)	4225.1 (1.5)	77Se (238.9)	4269.4 (2.0)	143Nd (742.1)
4185.1 (1.8)	77Se (238.9)	4225.1 (11.9)	1930s (5276.0)	4269.9 (16.8)	103Ru (174.0)
4185.3 (0.4)	68Zn (1077.4)	4226.1 (0.7)	163Dy (351.1)	4270.2 (0.4)	104Rh (180.9)
4185.4 (4.4)	171Er (197.9)	4226.6 (4.3)	204Tl (139.9)	4272.0 (0.7)	76As (165.0)
4186.1 (2.8)	1910s (5147.1)	4226.7 (6.5)	184W (111.2)	4272.5 (<0.1)	200Hg (367.9)
4187.0 (70.5)	151Sm (5288.0)	4227.0 (19.4)	161Gd (5280.0)	4272.9	175Yb
4187.2 (0.3)	56Mn (26.6)	4227.6 (13.0)	238Np (5352.0)	4273.3 (0.1)	80Br (37.1)
4187.2 (0.3)	104Rh (180.9)	4227.8 (0.2)	196Pt (356.1)	4274.0 (5.2)	142Pr (176.9)
4187.3 (0.4)	158Gd (181.9)	4228.8 (<0.1)	61Ni (7815.6)	4275.4 (3.7)	184W (111.2)
4187.3	179Hf	4229.5 (0.1)	68Zn (1077.4)	4275.7 (0.9)	158Gd (181.9)
4189.0 (0.5)	58Fe (810.5)	4229.8 (0.3)	80Br (37.1)	4275.9 (1.4)	57Fe (7631.6)

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV (χ ly)	Nucleus (Strongest γ)	E γ keV (χ ly)	Nucleus (Strongest γ)	E γ keV (χ ly)	Nucleus (Strongest γ)
4276.0 (0.4)	148Sm (550.0)	4319.5 (0.6)	56Mn (26.6)	4354.0 (1.9)	77Se (238.9)
4276.1 (1.0)	60Co (229.8)	4321.8 (0.7)	104Rh (180.9)	4354.0	175Yb
4276.5 (100.0)	241Pu (4276.5)	4322.1 (4.2)	58Fe (810.5)	4354.3 (0.8)	104Rh (180.9)
4278.2 (2.0)	138Ba (1435.6)	4322.5 (1.3)	136Ba (818.6)	4355.0 (1.2)	72Ga (145.1)
4279.3	179Hf	4322.5 (2.6)	143Nd (742.1)	4355.7 (0.2)	68Zn (1077.4)
4281.7 (0.3)	68Zn (1077.4)	4323.0 (0.5)	70Ga (508.4)	4355.8 (0.3)	49Ti (1381.5)
4282.0 (0.4)	72Ga (145.1)	4323.2 (4.4)	138Ba (1435.6)	4357.4 (1.2)	177Yb (151.6)
4282.0 (7.1)	177Yb (151.6)	4323.6 (6.1)	53Cr (7939.6)	4359.0 (2.3)	47Ti (159.0)
4282.3 (1.0)	52V (125.1)	4323.7 (5.9)	151Nd (4487.8)	4359.9 (0.3)	80Br (37.1)
4282.9 (0.4)	104Rh (180.9)	4324.0 (20.9)	161Gd (5280.0)	4360.3 (0.6)	104Rh (180.9)
4283.9 (9.8)	143Ce (4337.8)	4324.1 (0.8)	56Mn (26.6)	4362.0 (3.8)	161Gd (5280.0)
4285.0	210Bi	4324.1 (5.5)	171Yb (6614.7)	4362.2 (1.9)	233Th (3473.0)
4285.3 (0.3)	78Se (613.8)	4324.3 (<0.1)	200Hg (367.9)	4362.3 (0.2)	68Zn (1077.4)
4286.0 (0.6)	76As (165.0)	4324.7 (0.1)	57Fe (7631.6)	4363.5 (3.2)	73Ge (326.0)
4286.4 (0.7)	77Se (238.9)	4325.0 (26.7)	238Np (5352.0)	4364.3 (1.2)	194Ir (371.7)
4287.5 (0.4)	196Pt (356.1)	4325.1	175Yb	4364.5 (<0.1)	56Mn (26.6)
4287.5 (3.9)	138Ba (1435.6)	4325.5 (0.5)	68Zn (1077.4)	4364.5 (0.7)	140La (5097.9)
4287.7 (<0.1)	88Sr (1836.1)	4326.1 (7.0)	103Ru (174.0)	4366.2	81Se
4287.7 (0.5)	204Tl (139.9)	4326.6 (0.4)	142Pr (176.9)	4366.2 (23.0)	182Ta (270.4)
4288.8 (10.5)	235U (4155.1)	4326.9 (0.6)	104Rh (180.9)	4366.7 (15.7)	193Os (5276.0)
4289.7 (0.9)	158Gd (181.9)	4329.0 (0.8)	76As (165.0)	4367.4 (1.5)	77Se (238.9)
4290.5 (0.3)	68Zn (1077.4)	4329.1 (2.2)	60Co (229.8)	4367.6 (0.1)	57Fe (7631.6)
4291.4 (22.1)	141Ce (662.0)	4330.0 (1.5)	167Er (207.8)	4368.0 (1.7)	196Pt (356.1)
4291.6 (0.2)	80Br (37.1)	4330.0 (29.1)	66Cu (185.9)	4368.5 (10.0)	238Np (5352.0)
4292.0 (38.5)	151Sm (5288.0)	4330.4 (0.3)	56Mn (26.6)	4369.0 (0.6)	76As (165.0)
4293.0 (2.2)	191Os (5147.1)	4331.8 (0.9)	147Nd (314.7)	4369.0 (1.4)	167Er (207.8)
4294.5 (0.4)	104Rh (180.9)	4331.9 (<0.1)	63Ni (6838.2)	4369.3 (3.7)	138Ba (1435.6)
4294.6 (0.2)	61Ni (7819.6)	4331.9 (4.5)	138Ba (1435.6)	4369.8 (3.4)	142Pr (176.9)
4295.0 (38.9)	235U (4155.1)	4331.9 (7.6)	187W (5261.8)	4370.1 (29.8)	151Nd (4487.8)
4295.5 (11.6)	193Os (5276.0)	4332.9 (0.3)	80Br (37.1)	4370.5 (0.3)	68Zn (1077.4)
4296.2 (0.1)	68Zn (1077.4)	4334.0 (0.6)	68Zn (1077.4)	4370.6 (1.5)	206Pb (6731.5)
4297.0 (0.2)	148Sm (550.0)	4334.0 (3.3)	159Gd (5942.0)	4371.4 (1.2)	194Ir (371.7)
4298.0 (34.0)	161Gd (5280.0)	4334.9 (0.3)	104Rh (180.9)	4372.1 (0.3)	80Br (37.1)
4298.1 (1.5)	58Fe (810.5)	4335.0 (4.8)	155Sm (4988.0)	4372.4 (<0.1)	200Hg (367.9)
4298.3 (2.7)	101Mo (180.7)	4337.0 (0.3)	76As (165.0)	4372.7 (1.9)	233Th (3473.0)
4298.5 (0.2)	56Mn (26.6)	4337.3 (0.4)	68Zn (1077.4)	4373.9	179Hf
4299.0 (2.6)	184W (111.2)	4337.3	179Hf	4375.0 (2.2)	72Ga (145.1)
4299.3 (2.0)	73Ge (326.0)	4337.6 (0.3)	80Br (37.1)	4375.0 (<0.1)	148Sm (550.0)
4300.0 (71.4)	241Pu (4276.5)	4337.8 (100.0)	143Ce (4337.8)	4375.6 (3.6)	184W (111.2)
4301.5 (6.1)	193Os (5276.0)	4338.0 (2.4)	72Ga (145.1)	4376.8 (1.2)	60Co (229.8)
4302.6 (1.3)	104Rh (180.9)	4338.0 (0.7)	78Se (613.8)	4376.8 (0.1)	78Se (613.8)
4304.0 (0.6)	76As (165.0)	4339.0 (0.9)	167Er (207.8)	4377.2 (3.9)	77Se (238.9)
4304.5 (1.0)	158Gd (181.9)	4339.1 (0.9)	75Se (286.6)	4380.0 (0.3)	58Fe (810.5)
4305.0 (5.1)	159Gd (5942.0)	4339.8 (0.4)	147Nd (314.7)	4380.3 (4.3)	205Pb (6731.5)
4305.2 (2.2)	235U (4155.1)	4340.6 (4.0)	71Ge (499.8)	4380.3 (16.8)	238Np (5352.0)
4306.6 (8.3)	184W (111.2)	4342.0 (0.6)	58Fe (810.5)	4380.4 (0.5)	204Tl (139.9)
4306.9 (0.4)	142Pr (176.9)	4342.2 (2.6)	184W (111.2)	4380.7 (1.9)	233Th (3473.0)
4308.2 (0.4)	171Er (197.9)	4342.7 (0.5)	196Pt (356.1)	4381.0 (3.0)	56Mn (26.6)
4309.0 (19.7)	155Sm (4988.0)	4342.8 (0.4)	68Zn (1077.4)	4381.2 (2.3)	73Ge (326.0)
4309.8 (0.2)	80Br (37.1)	4343.0 (13.2)	153Sm (127.3)	4381.9 (0.3)	68Zn (1077.4)
4310.0 (1.2)	72Ga (145.1)	4343.3 (1.5)	142Pr (176.9)	4382.0 (1.6)	72Ga (145.1)
4310.0 (0.2)	148Sm (550.0)	4343.5 (0.5)	104Rh (180.9)	4382.0 (0.3)	194Ir (371.7)
4310.3 (1.1)	158Gd (181.9)	4344.8 (0.8)	158Gd (181.9)	4382.5 (6.7)	191Os (5147.1)
4310.8 (1.9)	204Tl (139.9)	4344.8 (3.8)	204Tl (139.9)	4383.2 (18.0)	182Ta (270.4)
4312.0 (4.2)	153Sm (127.3)	4345.1 (11.1)	238Np (5352.0)	4384.0 (4.4)	159Gd (5942.0)
4312.0 (10.4)	238Np (5352.0)	4346.1	179Hf	4384.6 (5.9)	184W (111.2)
4312.1 (0.5)	68Zn (1077.4)	4347.0 (1.1)	76As (165.0)	4384.6 (10.5)	187W (5261.8)
4312.2 (0.6)	196Pt (356.1)	4347.2 (6.4)	143Nd (742.1)	4386.0 (11.2)	151Sm (5288.0)
4312.8 (28.1)	185W (4573.8)	4347.4 (0.5)	68Zn (1077.4)	4387.6 (23.9)	101Mo (180.7)
4313.5 (3.0)	71Ge (499.8)	4347.4 (0.4)	171Er (197.9)	4389.7 (32.7)	140La (5097.9)
4313.6 (0.1)	143Nd (742.1)	4348.0 (1.7)	56Mn (26.6)	4390.0 (11.5)	66Cu (185.9)
4314.0 (0.2)	165Dy (108.2)	4348.1 (0.3)	88Sr (1836.1)	4391.5 (0.1)	78Se (613.8)
4315.2 (7.3)	163Dy (351.1)	4348.1 (1.8)	163Dy (351.1)	4391.5 (81.0)	241Pu (4276.5)
4315.6 (69.0)	182Ta (270.4)	4348.5 (29.8)	151Nd (4487.8)	4391.7 (6.6)	71Ge (499.8)
4317.0 (0.7)	70Ga (508.4)	4348.8 (1.0)	60Co (229.8)	4392.0 (0.3)	76As (165.0)
4317.6	179Hf	4348.8 (12.0)	182Ta (270.4)	4392.0 (0.3)	104Rh (180.9)
4318.0 (0.3)	62Ni (1172.8)	4350.1 (<0.1)	200Hg (367.9)	4392.8 (0.3)	204Tl (139.9)
4318.0 (0.8)	76As (165.0)	4350.1 (0.2)	80Br (37.1)	4393.6 (3.7)	184W (111.2)
4318.3 (0.2)	80Br (37.1)	4351.4 (18.1)	103Ru (174.0)	4394.4 (1.1)	60Co (229.8)
4319.0 (10.9)	151Sm (5288.0)	4351.6 (5.9)	171Yb (6614.7)	4394.7 (0.7)	194Ir (371.7)

Table 1. CAPTURE γ 's - energy sorted (cont.)

E γ keV (% γ)	Nucleus (Strongest γ)	E γ keV (% γ)	Nucleus (Strongest γ)	E γ keV (% γ)	Nucleus (Strongest γ)
4394.8	179Hf	4438.2 (3.2)	142Pr (176.9)	4473.1 (0.6)	56Mn (26.6)
4395.3 (8.0)	185W (4573.6)	4438.8 (0.8)	75Se (286.6)	4473.4 (1.5)	146Nd (7110.8)
4395.5 (0.5)	80Br (37.1)	4438.9 (11.5)	145Nd (852.8)	4474.0 (1.7)	153Sm (127.3)
4395.8 (0.8)	163Dy (351.1)	4440.0 (<0.1)	148Sm (550.0)	4476.0 (2.0)	72Ga (145.1)
4396.1 (9.3)	103Ru (174.0)	4440.0 (0.7)	204Tl (139.9)	4476.0 (7.0)	155Sm (4988.0)
4396.9 (0.8)	147Nd (314.7)	4440.2 (0.2)	80Br (37.1)	4477.0 (1.9)	233Th (3473.0)
4398.1 (0.7)	104Rh (180.9)	4441.2 (18.0)	151Nd (4487.8)	4477.3 (0.3)	196Pt (356.1)
4398.2 (1.9)	233Th (3473.0)	4441.6 (6.9)	238Np (5352.0)	4477.7 (10.5)	171Yb (6614.7)
4398.7 (0.8)	56Mn (26.6)	4442.4 (1.2)	194Ir (371.7)	4478.3 (0.3)	68Zn (1077.4)
4399.0 (52.0)	152Sm (3751.0)	4442.4 (0.2)	196Pt (356.1)	4478.7 (1.5)	104Rh (180.9)
4399.1 (8.1)	238Np (5352.0)	4442.9 (4.1)	184W (111.2)	4481.7 (0.3)	196Pt (356.1)
4399.9 (0.3)	68Zn (1077.4)	4443.0 (1.1)	58Fe (810.5)	4482.7 (11.0)	242Pu (5476.9)
4400.1 (0.3)	51Cr (749.0)	4444.0 (26.0)	182Ta (270.4)	4482.9 (0.3)	68Zn (1077.4)
4400.2 (38.1)	241Pu (4276.5)	4444.6 (1.4)	104Rh (180.9)	4483.0 (0.8)	58Fe (810.5)
4400.6 (10.6)	47Ca (2013.6)	4445.3 (2.5)	138Ba (1435.6)	4483.0 (0.6)	76As (165.0)
4401.5 (2.0)	1910s (5147.1)	4446.0 (4.3)	56Mn (26.6)	4483.1 (59.0)	101Ru (6271.4)
4401.5 (0.5)	196Pt (356.1)	4446.0 (36.1)	155Sm (4988.0)	4483.1 (41.0)	182Ta (270.4)
4401.6 (1.0)	194Ir (371.7)	4446.2 (0.7)	78Se (613.8)	4483.9 (0.5)	104Rh (180.9)
4402.4 (0.7)	158Gd (181.9)	4447.0 (0.6)	72Ga (145.1)	4484.2 (1.1)	147Nd (314.7)
4403.0 (0.6)	72Ga (145.1)	4447.0 (1.9)	142Pr (176.9)	4485.0 (3.2)	66Cu (185.9)
4403.1 (0.1)	80Br (37.1)	4447.5	81Se	4485.7 (0.4)	63Ni (6838.2)
4404.1 (1.8)	61Ni (7819.6)	4447.6 (9.6)	187W (5261.8)	4486.0 (2.8)	167Er (207.8)
4404.5 (0.9)	204Tl (139.9)	4448.7 (0.4)	68Zn (1077.4)	4486.0 (<0.1)	241Pu (4276.5)
4405.6 (10.5)	235U (4155.1)	4448.8 (0.3)	204Tl (139.9)	4486.9 (1.2)	52V (125.1)
4405.7 (17.1)	1930s (5276.0)	4450.4 (2.0)	140La (5097.9)	4487.4 (1.0)	194Ir (371.7)
4406.0 (0.4)	76As (165.0)	4450.4 (9.4)	233Th (3473.0)	4487.6 (0.4)	75Se (286.6)
4406.5 (3.8)	249Cm (1408.3)	4452.0 (1.0)	1910s (5147.1)	4487.8 (100.0)	151Nd (4487.8)
4406.7 (0.7)	75Se (286.6)	4452.5 (5.8)	52V (125.1)	4488.4 (0.9)	158Gd (181.9)
4406.8 (4.8)	57Fe (7631.6)	4452.6 (0.9)	78Se (613.8)	4488.7 (0.3)	80Br (37.1)
4407.0	175Yb	4453.0 (0.6)	48Ti (983.7)	4491.2 (4.2)	187W (5261.8)
4407.0 (1.1)	184W (111.2)	4453.8 (0.2)	196Pt (356.1)	4491.5 (0.8)	51Cr (749.0)
4407.0 (<0.1)	241Pu (4276.5)	4454.2 (0.3)	80Br (37.1)	4491.8 (2.3)	184W (111.2)
4407.1 (6.0)	238Np (5352.0)	4454.5 (19.2)	151Nd (4487.8)	4492.0 (2.5)	73Ge (326.0)
4409.0 (9.5)	151Sm (5288.0)	4454.6 (1.2)	194Ir (371.7)	4492.3 (9.5)	235U (4155.1)
4410.0 (1.1)	77Se (238.9)	4454.7	175Yb	4493.0 (0.3)	76As (165.0)
4410.6 (7.6)	75Ge (574.7)	4454.7 (6.9)	238Np (5352.0)	4493.9 (0.2)	68Zn (1077.4)
4411.0 (0.8)	58Fe (810.5)	4455.1 (0.9)	54Cr (8884.1)	4494.0 (0.7)	70Ga (508.4)
4411.2 (0.2)	68Zn (1077.4)	4455.9 (0.2)	104Rh (180.9)	4494.4 (2.7)	171Yb (6614.7)
4412.6 (0.5)	194Ir (371.7)	4456.0 (2.4)	55Fe (9297.8)	4494.8 (11.3)	142Pr (176.9)
4413.5 (20.0)	1930s (5276.0)	4456.8 (1.2)	77Se (238.9)	4494.8 (2.2)	194Ir (371.7)
4414.0 (1.2)	70Ga (508.4)	4456.9 (42.9)	241Pu (4276.5)	4495.0 (5.2)	55Fe (9297.8)
4415.4 (1.1)	56Mn (26.6)	4458.1 (<0.1)	200Hg (367.9)	4495.0 (0.8)	72Ga (145.1)
4416.0 (0.5)	62Ni (1172.8)	4458.2 (15.0)	182Ta (270.4)	4495.0 (4.8)	152Sm (3751.0)
4416.0 (0.3)	75Se (286.6)	4459.8 (5.1)	1910s (5147.1)	4495.5 (1.8)	71Ge (499.8)
4416.1 (0.2)	196Pt (356.1)	4460.3 (2.9)	184W (111.2)	4495.9 (2.7)	101Mo (180.7)
4416.4 (33.7)	140La (5097.9)	4460.8 (<0.1)	63Ni (6838.2)	4496.9 (4.2)	204Tl (139.9)
4417.0 (0.3)	76As (165.0)	4461.5 (7.7)	238Np (5352.0)	4500.0 (0.6)	68Zn (1077.4)
4417.0 (0.9)	171Er (197.9)	4461.6 (9.7)	171Er (197.9)	4500.0 (5.5)	69Zn (1008.0)
4419.5 (1.9)	233Th (3473.0)	4461.8 (0.8)	194Ir (371.7)	4500.2 (1.2)	147Nd (314.7)
4422.9 (11.2)	238Np (5352.0)	4462.0 (19.7)	155Sm (4988.0)	4500.8 (0.3)	76Se (613.8)
4423.3 (0.9)	77Se (238.9)	4462.0 (0.3)	165Dy (108.2)	4500.8 (0.8)	158Gd (181.9)
4423.7 (0.3)	56Mn (26.6)	4462.4 (2.2)	57Fe (7631.6)	4501.0 (0.2)	70Ga (508.4)
4424.9 (0.6)	194Ir (371.7)	4463.0 (0.3)	75Se (286.6)	4501.0 (1.0)	72Ga (145.1)
4425.8 (1.1)	54Cr (8884.1)	4464.0 (0.6)	72Ga (145.1)	4501.0 (2.9)	75Ge (574.7)
4426.0 (9.4)	69Zn (1008.0)	4465.2 (2.0)	71Ge (499.8)	4501.6 (6.3)	103Ru (174.8)
4428.7 (1.0)	163Dy (351.1)	4465.9	175Yb	4501.6 (20.3)	238Np (5352.0)
4428.7 (0.8)	184W (111.2)	4466.0 (0.6)	76As (165.0)	4502.2 (0.8)	104Rh (180.9)
4429.0 (0.8)	76As (165.0)	4466.2 (0.4)	68Zn (1077.4)	4502.6 (0.9)	77Se (238.9)
4429.0 (2.1)	136Ba (818.6)	4466.2 (0.2)	204Tl (139.9)	4502.7 (22.4)	140La (5097.9)
4431.0 (1.2)	70Ga (508.4)	4466.3 (0.3)	55Cr (6246.4)	4503.0 (0.9)	52V (125.1)
4431.9 (0.3)	196Pt (356.1)	4466.6 (0.4)	80Br (37.1)	4503.0 (1.8)	76As (165.0)
4432.6 (7.2)	235U (4155.1)	4467.0 (1.9)	70Ga (508.4)	4504.0 (6.8)	160Tb (75.1)
4434.1	179Hf	4468.0 (1.0)	153Sm (127.3)	4505.0 (6.4)	249Cm (1408.3)
4434.3 (0.3)	80Br (37.1)	4468.7 (0.6)	185W (4573.6)	4505.3 (0.9)	68Zn (1077.4)
4434.9 (1.8)	77Se (238.9)	4469.8 (0.3)	56Mn (26.6)	4505.3 (0.6)	194Ir (371.7)
4435.0 (18.0)	155Sm (4988.0)	4471.0 (0.5)	60Co (229.8)	4506.0 (0.6)	58Fe (810.5)
4435.0 (1.6)	1910s (5147.1)	4471.0 (0.4)	68Zn (1077.4)	4506.0 (1.1)	64Cu (7916.0)
4435.0 (0.6)	194Ir (371.7)	4472.0 (12.7)	47Ti (159.0)	4506.0 (0.3)	148Sm (550.0)
4436.4 (11.4)	75Ge (574.7)	4472.3 (47.6)	241Pu (4276.5)	4506.0 (10.2)	153Sm (127.3)
4437.5 (0.3)	68Zn (1077.4)	4472.5 (1.5)	194Ir (371.7)	4507.0 (0.6)	80Br (37.1)

Table I. CAPTURE γ 's - energy sorted (cont.)

Energy (keV) (% γ)	Nucleus (Strongest γ)	Energy (keV) (% γ)	Nucleus (Strongest γ)	Energy (keV) (% γ)	Nucleus (Strongest γ)
4507.0 (5.1)	161Gd (5280.0)	4546.0 (0.9)	194Ir (371.7)	4585.3 (0.5)	158Gd (181.9)
4508.5 (3.9)	185W (4573.6)	4546.0 (12.7)	153Sm (127.3)	4586.8 (0.2)	104Rh (180.9)
4508.8 (1.5)	136Ba (818.6)	4546.2 (0.3)	196Pt (356.1)	4587.0 (0.4)	76As (165.0)
4509.1 (1.7)	184W (111.2)	4546.5 (1.7)	60Co (229.8)	4588.0 (0.3)	57Fe (7631.6)
4511.0 (0.1)	70Ga (508.4)	4546.9 (1.1)	71Ge (499.8)	4588.2 (0.8)	61Ni (7819.6)
4511.0 (3.1)	155Sm (4988.0)	4547.0 (0.4)	70Ga (508.4)	4588.7 (2.4)	56Mn (26.6)
4511.0 (1.6)	159Gd (5942.0)	4547.0 (0.2)	165Dy (108.2)	4589.0 (0.3)	70Ga (508.4)
4512.0 (0.2)	72Ga (145.1)	4547.0 (0.3)	80Br (37.1)	4589.8 (3.9)	55Fe (9297.8)
4512.0 (2.3)	171Yb (6614.7)	4547.1 (30.4)	239Pu (4821.8)	4591.6 (1.6)	142Pr (176.9)
4513.0 (0.4)	143Ce (4337.8)	4549.3 (0.5)	104Rh (180.9)	4592.0 (0.5)	58Fe (810.5)
4513.0 (9.2)	151Sm (5288.0)	4550.6 (3.8)	56Mn (26.6)	4593.9 (81.1)	235U (4155.1)
4513.0 (0.5)	167Er (207.8)	4551.4 (1.4)	146Nd (7110.8)	4594.0 (2.8)	73Ge (326.0)
4513.3 (0.3)	168Nd (1077.4)	4552.0 (0.3)	88Sr (1836.1)	4595.0 (0.5)	72Ga (145.1)
4513.3 (0.6)	196Pt (356.1)	4553.0 (2.0)	159Gd (5942.0)	4595.0 (1.6)	146Nd (7110.8)
4513.7 (1.3)	143Nd (742.1)	4553.4 (0.4)	80Br (37.1)	4595.1 (0.8)	104Rh (180.9)
4514.3 (5.7)	71Ge (499.8)	4555.4 (<0.1)	200Hg (367.9)	4596.0 (0.8)	70Ga (508.4)
4514.3 (1.8)	77Ge (3895.2)	4555.5 (1.0)	184W (111.2)	4596.7 (2.3)	145Sm (5863.0)
4514.9 (5.7)	103Ru (174.0)	4556.1 (8.3)	191Os (5147.1)	4596.7 (5.7)	184W (111.2)
4515.0 (0.7)	76As (165.0)	4557.3 (0.1)	198Pt (356.1)	4596.9 (0.2)	68Zn (1077.4)
4515.2 (1.1)	191Os (5147.1)	4557.5 (0.2)	198Pt (1077.4)	4599.0 (0.3)	76As (165.0)
4515.4 (0.6)	104Rh (180.9)	4557.6 (7.6)	187W (5261.8)	4599.0 (5.1)	161Gd (5280.0)
4515.4 (0.4)	80Br (37.1)	4559.0 (7.7)	238Np (5352.0)	4599.8 (2.2)	194Ir (371.7)
4515.5 (3.9)	151Nd (4487.8)	4559.2 (9.2)	140La (5097.9)	4600.2 (1.0)	77Se (238.9)
4517.4 (6.7)	238Np (5352.0)	4559.4 (1.8)	101Mo (180.7)	4601.5 (0.1)	80Br (37.1)
4519.3 (3.9)	235U (4155.1)	4559.8 (0.5)	194Ir (371.7)	4601.9 (0.6)	104Rh (180.9)
4520.0	135Ba	4561.9 (1.7)	184W (111.2)	4602.0 (0.4)	72Ga (145.1)
4520.2 (0.2)	204Tl (139.9)	4563.2 (0.3)	68Zn (1077.4)	4602.3 (2.7)	204Tl (139.9)
4520.9 (0.6)	80Br (37.1)	4563.6 (1.5)	75Se (286.6)	4603.3 (0.1)	56Mn (26.6)
4521.0 (1.2)	58Fe (810.5)	4563.7 (10.7)	77Se (238.9)	4604.0 (<0.1)	200Hg (367.9)
4521.0 (0.6)	68Zn (1077.4)	4564.0 (3.2)	68Cu (185.9)	4604.8 (1.8)	88Sr (1836.1)
4523.6 (0.6)	147Nd (314.7)	4564.3 (5.5)	242Pu (5476.9)	4606.0 (2.7)	159Gd (5942.0)
4523.8 (2.4)	233Th (3473.0)	4565.0 (0.2)	70Ga (508.4)	4607.0 (0.1)	72Ga (145.1)
4524.0 (3.9)	153Sm (127.3)	4566.4 (24.0)	182Ta (270.4)	4607.1 (4.2)	60Co (229.8)
4524.4 (0.9)	194Ir (371.7)	4567.2 (10.8)	56Mn (26.6)	4607.7 (7.3)	171Yb (6614.7)
4525.0 (0.2)	70Ga (508.4)	4567.6 (0.5)	160Tb (75.1)	4608.3 (2.2)	77Se (238.9)
4525.5 (0.7)	158Gd (181.9)	4567.9 (12.0)	146Nd (7110.8)	4609.1 (0.2)	68Zn (1077.4)
4525.6 (5.9)	77Se (238.9)	4568.0 (0.9)	76As (165.0)	4609.1 (6.3)	184W (111.2)
4526.8 (1.6)	71Ge (499.8)	4568.2 (0.4)	80Br (37.1)	4609.3 (1.1)	204Tl (139.9)
4527.0 (4.9)	155Sm (4986.0)	4568.3 (2.0)	52V (125.1)	4609.8 (0.3)	80Br (37.1)
4527.2 (0.9)	60Co (229.8)	4568.3 (5.0)	171Yb (6614.7)	4610.0 (<0.1)	64Cu (7916.0)
4527.8 (93.7)	235U (4155.1)	4568.3 (1.2)	177Yb (151.6)	4610.7 (0.3)	163Dy (351.1)
4528.0 (0.2)	148Sm (550.0)	4568.3	179Hf	4612.0 (1.4)	165Dy (108.2)
4528.2 (0.2)	68Zn (1077.4)	4569.0 (1.1)	167Er (207.8)	4612.5 (2.4)	194Ir (371.7)
4529.0	179Hf	4571.0 (0.4)	70Ga (508.4)	4612.5 (0.7)	239U (133.8)
4529.3 (0.6)	160Tb (75.1)	4571.1 (1.9)	204Tl (139.9)	4613.3 (1.3)	184W (111.2)
4529.6 (<0.1)	54Cr (8884.1)	4571.5 (9.1)	238Np (5352.0)	4614.0 (22.7)	205Pb (6731.5)
4530.7 (67.2)	193Os (5276.0)	4572.3 (1.8)	73Ge (326.0)	4614.2 (0.5)	104Rh (180.9)
4532.0 (0.6)	76As (165.0)	4572.8 (4.2)	45Ca (174.3)	4614.6 (0.4)	196Pt (356.1)
4534.3 (2.8)	52V (125.1)	4573.6 (100.0)	185W (4573.6)	4616.0 (16.0)	152Sm (3751.0)
4535.0 (0.8)	55Fe (9297.8)	4575.0 (<0.1)	200Hg (367.9)	4616.5 (<0.1)	169Er (429.9)
4535.5 (0.3)	68Zn (1077.4)	4575.1 (17.7)	187W (5261.8)	4616.6 (0.6)	160Tb (75.1)
4535.8 (72.8)	185W (4573.6)	4575.5 (2.4)	163Dy (351.1)	4618.0 (7.2)	59Fe (287.0)
4538.1 (25.0)	182Ta (270.4)	4577.3 (2.7)	194Ir (371.7)	4618.0 (36.0)	182Ta (270.4)
4536.1 (<0.1)	200Hg (367.9)	4578.0 (1.1)	72Ga (145.1)	4618.5 (0.6)	56Mn (26.6)
4536.4 (0.8)	104Rh (180.9)	4579.0 (0.1)	148Sm (550.0)	4618.7 (1.0)	147Nd (314.7)
4536.8 (0.4)	136Ba (818.6)	4579.0 (26.9)	151Sm (5288.0)	4618.7	179Hf
4536.8 (11.6)	235U (4155.1)	4579.1 (0.9)	142Pr (176.9)	4619.0 (0.6)	76As (165.0)
4537.8 (2.3)	171Yb (6614.7)	4579.5 (0.8)	104Rh (180.9)	4619.1 (19.3)	238Np (5352.0)
4539.2 (12.3)	238Np (5352.0)	4579.8 (0.1)	68Zn (1077.4)	4619.2 (0.2)	68Zn (1077.4)
4539.3 (<0.1)	80Br (37.1)	4580.0 (26.0)	182Ta (270.4)	4620.0 (0.1)	70Ga (508.4)
4539.6 (1.2)	184W (111.2)	4580.0 (0.4)	187W (5261.8)	4620.3 (24.0)	101Ru (6271.4)
4541.2 (0.4)	68Zn (1077.4)	4580.1 (2.7)	105Ru (143.2)	4621.0 (0.8)	194Ir (371.7)
4542.0 (11.0)	145Nd (852.8)	4580.2 (1.0)	160Tb (75.1)	4622.0 (0.8)	72Ga (145.1)
4542.1 (3.1)	204Tl (139.9)	4581.0 (0.3)	70Ga (508.4)	4622.0 (3.0)	140La (5097.9)
4542.8 (1.1)	104Rh (180.9)	4582.4 (0.4)	147Nd (314.7)	4622.0 (0.3)	148Sm (550.0)
4543.0 (2.0)	72Ga (145.1)	4584.0 (0.1)	196Pt (356.1)	4622.9 (1.0)	60Co (229.8)
4543.0 (<0.1)	148Sm (550.0)	4584.4 (10.4)	105Ru (143.2)	4624.1 (5.0)	145Sm (5863.0)
4543.7 (3.5)	101Mo (180.7)	4584.6 (1.9)	194Ir (371.7)	4624.8 (0.3)	80Br (37.1)
4544.0 (0.7)	76As (165.0)	4584.8 (21.0)	238Np (5352.0)	4625.0 (2.7)	47Ti (159.0)
4544.4 (2.6)	77Se (238.9)	4585.0 (0.9)	140La (5097.9)	4625.0 (1.4)	51Cr (749.0)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E_γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E_γ keV ($\% \gamma$)	Nucleus (Strongest γ)
4625.0 (0.6)	167Er (207.8)	4664.0 (0.7)	72Ga (145.1)	4703.7 (3.2)	184W (111.2)
4625.1 (0.6)	142Pr (176.9)	4665.0 (1.0)	104Rh (180.9)	4704.0 (0.7)	72Ga (145.1)
4626.2 (0.4)	78Se (613.8)	4665.0 (2.0)	1910s (5147.1)	4704.0 (<0.1)	148Sm (550.0)
4626.5 (5.0)	58Fe (810.5)	4665.8 (0.5)	158Gd (181.9)	4705.0 (0.2)	132Xe (667.5)
4626.7 (0.3)	68Zn (1077.4)	4665.8 (0.5)	194Ir (371.7)	4705.6 (8.9)	238Np (5352.0)
4626.7 (7.6)	177Yb (151.6)	4666.6 (9.0)	182Ta (270.4)	4705.9 (2.3)	60Co (229.8)
4627.1 (25.5)	187W (5261.8)	4666.8 (1.9)	60Co (229.8)	4706.0 (26.3)	75Ge (574.7)
4627.4 (0.5)	194Ir (371.7)	4667.4 (<0.1)	134Cs (116.4)	4706.9 (5.6)	204Tl (139.9)
4627.5 (22.1)	103Ru (174.0)	4667.8	179Hf	4708.6 (0.5)	158Gd (181.9)
4628.9 (2.5)	104Rh (180.9)	4670.6 (0.4)	56Mn (26.6)	4709.0 (0.4)	56Mn (26.6)
4629.7 (11.0)	182Ta (270.4)	4670.7 (0.2)	68Zn (1077.4)	4709.0 (0.9)	196Pt (356.1)
4630.0 (0.7)	187W (5261.8)	4671.0 (0.7)	104Rh (180.9)	4709.3 (0.2)	104Rh (180.9)
4631.0 (0.3)	70Ga (508.4)	4672.0 (0.2)	70Ga (508.4)	4711.0 (2.4)	70Ga (508.4)
4632.0 (0.4)	75Se (286.6)	4672.6 (0.3)	239U (133.8)	4711.0 (3.9)	155Sm (4988.0)
4632.3 (0.7)	68Zn (1077.4)	4673.3 (0.7)	158Gd (181.9)	4711.8 (0.2)	68Zn (1077.4)
4634.0 (0.1)	148Sm (550.0)	4673.4 (0.4)	49Ti (1381.5)	4712.0 (0.9)	58Fe (810.5)
4634.0 (5.8)	146Nd (7110.8)	4673.4 (13.0)	182Ta (270.4)	4712.0 (100.0)	137Ba (4712.0)
4634.5 (0.5)	196Pt (356.1)	4674.2 (10.9)	238Np (5352.0)	4712.0 (6.8)	151Sm (5288.0)
4635.8 (2.8)	71Ge (499.8)	4675.0 (1.5)	61Ni (7819.6)	4713.4 (4.4)	249Cm (1408.3)
4636.7 (1.2)	56Mn (26.6)	4675.5 (0.3)	200Hg (367.9)	4713.9 (0.5)	194Ir (371.7)
4636.8 (0.5)	80Br (37.1)	4675.8 (1.0)	57Fe (7631.6)	4714.7 (7.5)	239Pu (4821.8)
4638.0 (0.2)	72Ga (145.1)	4676.0 (<0.1)	148Sm (550.0)	4714.9 (0.8)	49Ti (1381.5)
4639.0 (<0.1)	170Tm (204.5)	4677.4 (0.1)	196Pt (356.1)	4715.0 (1.8)	55Fe (9297.8)
4639.1 (2.8)	235U (4155.1)	4677.6 (1.3)	194Ir (371.7)	4715.8 (1.6)	204Tl (139.9)
4639.4 (0.2)	68Zn (1077.4)	4678.0 (0.6)	72Ga (145.1)	4716.5 (0.3)	68Zn (1077.4)
4640.0 (3.9)	71Ge (499.8)	4678.3 (42.0)	238Np (5352.0)	4717.6 (44.0)	101Ru (6271.4)
4641.2 (0.4)	80Br (37.1)	4679.3 (1.3)	146Nd (7110.8)	4718.0 (0.8)	72Ga (145.1)
4641.3 (0.7)	77Se (238.9)	4679.5 (5.4)	65Ni (6034.0)	4719.0 (5.3)	167Er (207.8)
4642.3 (3.6)	171Yb (6614.7)	4679.6 (0.2)	80Br (37.1)	4720.0 (1.1)	146Nd (7110.8)
4642.7 (4.5)	194Ir (371.7)	4680.8 (3.3)	184W (111.2)	4721.0 (0.5)	70Ga (508.4)
4642.9 (0.3)	104Rh (180.9)	4681.6 (0.3)	68Zn (1077.4)	4723.2 (11.3)	142Pr (176.9)
4643.9 (4.7)	56Mn (26.6)	4681.7 (3.5)	101Mo (180.7)	4723.9 (7.4)	238Np (5352.0)
4644.0 (0.3)	74Ge (595.7)	4682.0 (0.1)	70Ga (508.4)	4724.0 (0.3)	57Fe (7631.6)
4644.0 (0.5)	167Er (207.8)	4682.0 (3.7)	167Er (207.8)	4724.0 (<0.1)	88Sr (1836.1)
4645.0 (46.2)	151Sm (5288.0)	4682.9 (1.3)	160Tb (75.1)	4724.3 (0.4)	68Zn (1077.4)
4645.0 (2.1)	153Sm (127.3)	4684.8 (29.6)	187W (5261.8)	4724.9 (1.3)	104Rh (180.9)
4645.1 (7.8)	205Pb (6731.5)	4686.0 (1.3)	72Ga (145.1)	4725.0 (0.2)	74Ge (595.7)
4645.8 (1.5)	60Co (229.8)	4686.0 (0.2)	74Ge (595.7)	4725.3 (0.3)	80Br (37.1)
4646.0 (0.4)	80Br (37.1)	4687.0 (1.3)	75Se (286.6)	4725.4 (15.3)	56Mn (26.6)
4647.1 (8.7)	184W (111.2)	4687.7 (15.0)	238Np (5352.0)	4725.9 (11.4)	171Yb (6614.7)
4648.3 (0.7)	236U (642.2)	4687.8 (26.9)	147Nd (314.7)	4728.0 (0.1)	148Sm (550.0)
4649.0 (1.1)	76As (165.0)	4688.9 (9.5)	204Tl (139.9)	4729.0 (0.4)	72Ga (145.1)
4649.2 (0.3)	104Rh (180.9)	4689.5 (0.3)	78Se (613.8)	4729.5 (0.5)	196Pt (356.1)
4649.2 (0.6)	158Gd (181.9)	4689.7 (8.5)	138Ba (1435.6)	4731.5 (0.8)	60Co (229.8)
4650.0 (0.7)	72Ga (145.1)	4689.8 (<0.1)	194Ir (371.7)	4731.8 (0.3)	136Ba (818.6)
4650.0 (<0.1)	170Tm (204.5)	4690.0 (5.6)	56Mn (26.6)	4732.3 (2.7)	101Mo (180.7)
4650.1 (8.0)	187W (5261.8)	4690.0 (0.6)	158Gd (181.9)	4732.7 (0.3)	177Yb (151.6)
4650.5 (0.3)	68Zn (1077.4)	4690.0 (0.7)	187W (5261.8)	4732.8 (0.1)	68Zn (1077.4)
4650.7 (2.7)	73Ge (326.0)	4690.4 (1.0)	104Rh (180.9)	4733.0 (<0.1)	170Tm (204.5)
4651.0 (0.4)	80Br (37.1)	4690.7 (2.0)	184W (111.2)	4733.0 (4.0)	66Cu (185.9)
4652.0 (9.4)	69Zn (1008.0)	4690.7 (16.0)	238Np (5352.0)	4734.0 (1.0)	76As (165.0)
4652.3 (0.9)	163Dy (351.1)	4691.7 (31.0)	182Ta (270.4)	4734.5 (0.7)	194Ir (371.7)
4653.0 (2.6)	184W (111.2)	4691.7 (7.4)	185W (4573.8)	4735.0 (0.2)	132Xe (667.5)
4653.4 (11.3)	238Np (5352.0)	4692.0 (1.6)	75Se (286.6)	4735.3 (9.1)	151Nd (4487.8)
4655.1 (<0.1)	134Cs (116.4)	4692.2 (33.0)	142Pr (176.9)	4736.4 (0.6)	158Gd (181.9)
4656.2 (0.3)	68Zn (1077.4)	4693.1 (1.3)	52V (125.1)	4737.0 (3.0)	161Gd (5280.0)
4657.1 (0.6)	160Tb (75.1)	4693.4 (9.5)	196Pt (356.1)	4738.0 (0.1)	148Sm (550.0)
4658.2 (1.9)	235U (4155.1)	4694.0 (0.6)	76As (165.0)	4738.6 (0.7)	163Dy (351.1)
4659.0 (3.8)	159Gd (5942.0)	4694.0 (0.6)	146Nd (7110.8)	4739.2 (0.6)	200Hg (367.9)
4659.3 (0.5)	90Y (776.7)	4694.9 (21.2)	1930s (5276.0)	4739.4 (0.4)	56Mn (26.6)
4660.0 (15.7)	59Fe (287.0)	4695.3 (0.7)	147Nd (314.7)	4739.4 (25.0)	182Ta (270.4)
4660.0 (<0.1)	70Ga (508.4)	4696.0 (3.2)	70Ga (508.4)	4740.6 (0.6)	80Br (37.1)
4660.0 (0.4)	76As (165.0)	4697.0 (14.5)	153Sm (127.3)	4741.7 (0.8)	158Gd (181.9)
4660.0 (4.1)	155Sm (4988.0)	4697.4 (0.7)	104Rh (180.9)	4742.9 (0.7)	194Ir (371.7)
4660.4 (4.2)	151Nd (4487.8)	4698.1 (0.2)	194Ir (371.7)	4743.0 (0.1)	72Ga (145.1)
4660.5 (28.1)	147Nd (314.7)	4699.0 (1.3)	177Yb (151.6)	4743.0 (<0.1)	88Sr (1836.1)
4660.7 (0.7)	239U (133.8)	4700.0 (8.4)	155Sm (4988.0)	4743.3 (0.2)	57Fe (7631.6)
4660.8 (7.2)	87Sr (8039.8)	4700.3 (1.1)	77Se (238.9)	4743.3 (0.7)	104Rh (180.9)
4661.4 (0.9)	142Pr (176.9)	4700.8	175Yb	4743.6 (10.0)	171Yb (6614.7)
4662.0 (<0.1)	148Sm (550.0)	4703.2 (6.8)	171Yb (6614.7)	4746.1 (3.0)	75Ge (574.7)

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV (χ ly)	Nucleus (Strongest γ)	E γ keV (χ ly)	Nucleus (Strongest γ)	E γ keV (χ ly)	Nucleus (Strongest γ)
4746.3 (56.2)	185W (4573.6)	4789.0 (0.6)	58Fe (810.5)	4827.8 (22.2)	151Nd (4487.8)
4746.7 (0.3)	198Pt (356.1)	4789.0 (2.4)	167Er (207.8)	4828.0 (1.1)	76As (165.0)
4748.0 (<0.1)	170Tm (204.5)	4789.8 (0.3)	68Zn (1077.4)	4828.0	118Sn
4749.8 (4.5)	58Fe (810.5)	4791.0 (0.2)	136Ba (818.6)	4828.6 (5.0)	147Nd (314.7)
4750.3 (1.2)	52V (125.1)	4791.8 (1.0)	184W (111.2)	4829.7 (6.9)	56Mn (26.6)
4751.1 (0.6)	104Rh (180.9)	4791.8 (0.7)	196Pt (356.1)	4830.0 (0.5)	48Ti (983.7)
4751.7 (0.1)	56Mn (26.6)	4792.0 (3.8)	72Ga (145.1)	4830.0	175Yb
4752.0 (<0.1)	54Cr (884.1)	4793.1 (36.0)	182Ta (270.4)	4830.5	179Hf
4752.3 (0.4)	68Zn (1077.4)	4793.3 (0.9)	160Tb (75.1)	4830.6 (5.3)	101Mo (180.7)
4753.0 (1.0)	47Ti (159.0)	4793.8 (0.5)	56Mn (26.6)	4830.9 (5.3)	103Ru (174.0)
4753.0 (1.8)	70Ga (508.4)	4794.7 (0.9)	194Ir (371.7)	4832.1 (1.2)	198Au (214.8)
4753.4 (5.1)	194Ir (371.7)	4795.0 (0.8)	68Zn (1077.4)	4832.9 (0.6)	142Pr (176.9)
4753.6 (12.4)	204Tl (139.9)	4795.0 (0.9)	167Er (207.8)	4833.0 (0.3)	148Sm (550.0)
4754.0 (<0.1)	148Sm (550.0)	4795.0 (0.1)	80Br (37.1)	4833.2 (0.3)	51Cr (749.0)
4756.1 (1.0)	75Se (286.6)	4795.5 (5.0)	238Np (5352.0)	4833.2 (26.0)	182Ta (270.4)
4756.9 (0.9)	160Tb (75.1)	4795.7 (0.6)	158Gd (181.9)	4834.0 (4.2)	159Gd (5942.0)
4757.3 (0.4)	61Ni (7819.6)	4796.0 (0.3)	70Ga (508.4)	4834.1 (1.8)	104Rh (180.9)
4757.7 (0.5)	68Zn (1077.4)	4797.5 (3.9)	184W (111.2)	4835.1 (0.2)	68Zn (1077.4)
4758.0 (1.7)	148Sm (550.0)	4798.1 (0.4)	56Mn (26.6)	4836.9 (97.0)	145Nd (852.8)
4758.9 (0.3)	200Hg (367.9)	4798.3 (0.5)	68Zn (1077.4)	4837.7 (0.6)	184W (111.2)
4759.0 (4.2)	239Pu (4821.8)	4799.6 (<0.1)	200Hg (367.9)	4838.7 (0.1)	104Rh (180.9)
4761.0 (1.7)	72Ga (145.1)	4799.9 (0.3)	138Ba (135.6)	4838.7 (3.6)	194Ir (371.7)
4761.4 (1.5)	184W (111.2)	4800.6 (0.4)	104Rh (180.9)	4839.0 (7.6)	72Ga (145.1)
4761.7 (0.9)	136Ba (818.6)	4800.7 (8.2)	198Au (214.8)	4839.2 (13.0)	101Ru (6271.4)
4763.0 (0.6)	76As (165.0)	4801.0 (3.5)	103Ru (174.0)	4839.6 (0.4)	198Pt (356.1)
4764.1 (0.1)	56Mn (26.6)	4801.0 (<0.1)	170Tm (204.5)	4840.0 (0.4)	198Au (214.8)
4765.5 (0.4)	104Rh (180.9)	4801.2 (16.5)	142Pr (176.9)	4841.0 (3.5)	56Mn (26.6)
4765.6 (10.0)	238Np (5352.0)	4802.0 (26.7)	159Gd (5942.0)	4841.0 (7.0)	238Np (5352.0)
4766.0 (<0.1)	148Sm (550.0)	4802.8 (4.4)	55Fe (9297.8)	4841.6 (3.8)	204Tl (139.9)
4766.0 (0.5)	158Gd (11.9)	4802.9 (33.0)	182Ta (270.4)	4842.0 (0.6)	70Ga (508.4)
4766.6 (48.0)	141Ce (662.0)	4803.6 (0.2)	75Se (286.6)	4842.0 (15.0)	239Pu (4821.8)
4767.0 (0.2)	132Xe (667.5)	4804.0 (0.3)	148Sm (550.0)	4842.2 (0.4)	200Hg (367.9)
4767.9 (0.2)	68Zn (1077.4)	4804.5	179Hf	4842.5 (93.9)	140La (5097.9)
4767.9 (0.5)	196Pt (356.1)	4804.7 (<0.1)	92Zr (934.5)	4843.0 (0.4)	132Xe (667.5)
4768.8 (0.3)	56Mn (26.6)	4806.0 (0.6)	72Ga (145.1)	4844.0 (<0.1)	74Ge (595.7)
4769.6 (7.9)	233Th (3473.0)	4806.3 (1.3)	204Tl (139.9)	4844.0 (1.4)	76As (165.0)
4769.8 (1.8)	147Nd (314.7)	4806.4 (<0.1)	239U (133.8)	4844.8 (0.9)	75Se (286.6)
4770.0 (0.3)	72Ga (145.1)	4807.3 (2.3)	194Ir (371.7)	4846.6 (0.4)	80Br (37.1)
4771.0 (<0.1)	170Tm (204.5)	4808.2 (18.0)	101Ru (6271.4)	4847.0 (3.2)	54Cr (8884.1)
4771.8 (23.6)	55Cr (6246.4)	4810.0 (0.2)	74Ge (595.7)	4848.2 (0.8)	104Rh (180.9)
4772.3 (1.7)	52V (125.1)	4810.0 (0.7)	76As (165.0)	4848.5 (0.4)	147Nd (314.7)
4773.0 (0.3)	70Ga (508.4)	4810.3 (6.3)	57Fe (7631.6)	4848.8 (8.3)	239Pu (4821.8)
4773.4 (0.4)	104Rh (180.9)	4810.7 (0.3)	68Zn (1077.4)	4850.0 (1.4)	153Sm (127.3)
4773.4 (0.4)	80Br (37.1)	4810.8 (0.3)	78Se (613.8)	4853.0 (0.9)	70Ga (508.4)
4774.5 (1.5)	147Nd (314.7)	4811.0 (4.7)	161Gd (5280.0)	4853.0 (0.4)	80Br (37.1)
4775.0 (0.6)	76As (165.0)	4811.7 (<0.1)	200Hg (367.9)	4854.0 (3.0)	198Au (214.8)
4775.0 (4.5)	167Er (207.8)	4811.8 (0.3)	104Rh (180.9)	4854.1 (0.4)	56Mn (26.6)
4776.9 (0.7)	77Se (238.9)	4811.8 (0.9)	160Tb (75.1)	4854.7 (0.2)	88Sr (1836.1)
4777.1 (2.4)	171Er (197.9)	4813.0 (0.6)	70Ga (508.4)	4854.7 (2.5)	194Ir (371.7)
4777.9 (2.9)	163Dy (351.1)	4813.0 (4.1)	205Pb (6731.5)	4855.0 (0.1)	148Sm (550.0)
4778.6 (0.4)	104Rh (180.9)	4814.4 (33.5)	238Np (5352.0)	4855.9 (1.0)	184W (111.2)
4778.7 (0.2)	194Ir (371.7)	4814.5 (6.8)	146Nd (7110.8)	4856.4 (0.3)	78Se (613.8)
4778.8 (53.8)	238Np (5352.0)	4815.0 (4.4)	75Se (574.7)	4857.3 (1.1)	146Nd (7110.8)
4779.0 (0.4)	70Ga (508.4)	4815.0 (5.8)	159Gd (5942.0)	4858.2 (1.0)	104Rh (180.9)
4780.3 (1.4)	56Mn (26.6)	4815.3 (0.2)	80Br (37.1)	4858.4 (0.3)	68Zn (1077.4)
4780.8 (2.6)	146Nd (7110.8)	4816.4 (0.7)	196Pt (356.1)	4858.6 (0.1)	196Pt (356.1)
4781.2 (1.8)	184W (111.2)	4816.5 (4.8)	143Nd (742.1)	4860.0 (0.3)	76As (165.0)
4781.4 (1.2)	60Co (229.8)	4816.7 (0.4)	56Mn (26.6)	4861.1 (0.6)	80Br (37.1)
4782.0 (<0.1)	74Ge (595.7)	4817.3 (0.3)	75Se (286.6)	4862.5 (0.6)	177Yb (151.6)
4782.3 (74.0)	182Ta (270.4)	4820.1 (0.4)	184W (111.2)	4863.0 (1.4)	70Ga (508.4)
4783.0 (0.9)	68Zn (1077.4)	4821.8 (1.2)	77Ge (3895.2)	4863.2 (0.3)	104Rh (180.9)
4783.0 (3.6)	76As (165.0)	4821.8 (11.0)	182Ta (270.4)	4864.6 (1.5)	142Pr (176.9)
4784.0 (4.3)	161Gd (5280.0)	4821.8 (100.0)	239Pu (4821.8)	4865.0 (11.8)	159Gd (5942.0)
4784.0 (4.5)	171Yb (6614.7)	4823.0 (2.3)	70Ga (508.4)	4865.2 (2.6)	198Au (214.8)
4784.5 (16.5)	145Sm (5863.0)	4823.9 (3.6)	58Fe (810.5)	4866.8 (1.4)	177Lu (150.4)
4785.0 (1.2)	233Th (3473.0)	4824.3 (0.4)	104Rh (180.9)	4867.0 (3.8)	72Ga (145.1)
4785.2 (0.7)	194Ir (371.7)	4825.0 (0.2)	132Xe (667.5)	4867.0 (0.3)	77Se (238.9)
4787.2 (1.7)	198Au (214.8)	4826.3 (2.3)	194Ir (371.7)	4867.0 (55.7)	155Sm (4988.0)
4787.3 (0.6)	158Gd (181.9)	4826.9 (0.3)	68Zn (1077.4)	4868.4 (16.8)	197Pt (5845.3)
4788.0 (<0.1)	132Xe (667.5)	4826.9 (0.7)	163Dy (351.1)	4868.4 (2.5)	204Tl (139.9)

Table I. CAPTURE γ 's - energy sorted (cont.)

Energy (keV) ($\%I_{\gamma}$)	Nucleus (Strongest γ)	Energy (keV) ($\%I_{\gamma}$)	Nucleus (Strongest γ)	Energy (keV) ($\%I_{\gamma}$)	Nucleus (Strongest γ)
4868.5 (32.4)	238Np (5352.0)	4904.4 (2.1)	235U (4155.1)	4947.6 (2.0)	196Pt (356.1)
4868.8 (0.4)	55Cr (6246.4)	4905.2 (0.2)	68Zn (1077.4)	4949.1 (1.9)	57Fe (7631.6)
4870.3 (0.8)	158Gd (181.9)	4905.4 (10.0)	60Co (229.8)	4949.3 (8.0)	182Ta (270.4)
4872.0 (0.4)	70Ga (508.4)	4905.5 (3.4)	198Au (214.8)	4949.4 (11.2)	56Mn (26.6)
4872.0 (1.2)	167Er (207.8)	4906.0 (<0.1)	148Sm (550.0)	4950.0 (<0.1)	170Tm (204.5)
4872.3 (1.5)	54Cr (8884.1)	4907.0 (0.2)	72Ga (145.1)	4951.0 (<0.1)	74Ge (595.7)
4872.7 (0.9)	194Ir (371.7)	4907.0 (0.2)	74Ge (595.7)	4951.1 (0.6)	158Gd (181.9)
4874.9 (0.2)	96Mo (778.3)	4907.4 (0.2)	96Mo (778.3)	4951.2 (1.6)	71Ge (499.8)
4875.1 (1.2)	75Se (286.6)	4907.5 (1.3)	103Ru (174.0)	4951.5 (1.8)	153Sm (127.3)
4875.2 (4.0)	56Mn (26.6)	4907.9 (3.8)	56Mn (26.6)	4951.7 (0.3)	162Dy (185.0)
4875.5 (2.0)	173Yb (399.4)	4908.2 (0.5)	158Gd (181.9)	4952.0 (0.1)	96Mo (778.3)
4876.9 (1.2)	158Gd (181.9)	4908.8 (<0.1)	169Er (429.9)	4952.3 (0.8)	194Ir (371.7)
4877.0 (0.8)	76As (165.0)	4910.0 (0.5)	70Ga (508.4)	4952.4 (3.8)	184W (111.2)
4879.0 (6.3)	151Sm (5288.0)	4912.6 (22.0)	182Ta (270.4)	4954.2 (<0.1)	200Hg (367.9)
4880.0 (<0.1)	148Sm (550.0)	4913.3 (0.7)	80Br (37.1)	4955.6 (0.4)	158Gd (181.9)
4880.1 (0.3)	96Mo (778.3)	4913.6 (1.9)	104Rh (180.9)	4956.0 (2.9)	70Ga (508.4)
4880.5 (8.1)	71Ge (499.8)	4914.0 (0.9)	68Zn (1077.4)	4956.0 (0.1)	177Lu (150.4)
4881.0 (4.4)	49Ti (1381.5)	4914.0 (5.0)	171Yb (6614.7)	4956.2 (0.4)	96Mo (778.3)
4882.4 (1.1)	196Pt (356.1)	4914.3 (0.1)	96Mo (778.3)	4957.2 (0.1)	98Mo (787.4)
4882.8 (0.3)	80Br (37.1)	4914.8 (14.6)	204Tl (139.9)	4958.2 (7.0)	198Au (214.8)
4883.7 (7.6)	52V (125.1)	4916.3 (0.9)	188Re (63.6)	4958.7 (1.6)	188Re (63.6)
4883.9 (1.6)	236U (642.2)	4916.8 (0.2)	98Mo (787.4)	4960.0 (2.3)	76As (165.0)
4884.0 (5.6)	153Sm (127.3)	4917.0 (0.1)	132Xe (667.5)	4960.0 (8.9)	238Np (5352.0)
4884.3 (8.1)	60Co (229.8)	4918.0 (1.1)	76As (165.0)	4960.8 (0.6)	104Rh (180.9)
4884.8 (4.7)	103Ru (174.0)	4918.0 (<0.1)	170Tm (204.5)	4961.4 (1.8)	77Se (238.9)
4885.7 (<0.1)	136Ba (818.6)	4919.9 (0.1)	96Mo (778.3)	4961.7 (5.0)	182Ta (270.4)
4886.0 (9.8)	71Ge (499.8)	4920.1 (0.4)	142Pr (176.9)	4961.9 (0.3)	78Se (613.8)
4886.2 (0.2)	68Zn (1077.4)	4920.3 (0.3)	80Br (37.1)	4962.0 (15.3)	47Ti (159.0)
4886.3 (0.2)	96Mo (778.3)	4920.4 (8.0)	238Np (5352.0)	4962.1 (0.4)	147Nd (314.7)
4886.5 (8.9)	238Np (5352.0)	4920.7 (19.4)	205Pb (6731.5)	4963.3 (1.4)	191Os (5147.1)
4887.1 (<0.1)	169Er (429.9)	4921.1 (1.2)	194Ir (371.7)	4964.0 (1.2)	60Co (229.8)
4887.5 (2.7)	198Au (214.8)	4921.5 (4.8)	60Co (229.8)	4965.6 (0.3)	177Lu (150.4)
4888.0 (14.0)	69Zn (1008.0)	4922.0 (0.3)	70Ga (508.4)	4966.8 (2.5)	49Ti (1381.5)
4888.0 (0.8)	194Ir (371.7)	4922.4 (<0.1)	169Er (429.9)	4968.0 (3.1)	159Gd (5942.0)
4888.3 (20.4)	140La (5097.9)	4922.6 (1.5)	75Se (286.6)	4968.4 (4.4)	138Ba (1435.6)
4888.6 (1.9)	188Re (63.6)	4923.0 (1.1)	104Rh (180.9)	4968.7 (0.3)	80Br (37.1)
4889.0 (0.9)	58Fe (810.5)	4923.1 (0.2)	68Zn (1077.4)	4969.0 (0.8)	194Ir (371.7)
4890.0 (3.8)	72Ga (145.1)	4923.9 (<0.1)	134Cs (116.4)	4969.8 (2.0)	56Mn (26.6)
4890.6 (3.3)	182Ta (270.4)	4924.2 (0.8)	96Mo (778.3)	4970.7 (0.4)	196Pt (356.1)
4890.9 (1.8)	73Ge (326.0)	4924.3 (0.6)	80Br (37.1)	4971.4 (2.4)	184W (111.2)
4891.0 (0.6)	76As (165.0)	4924.4 (1.1)	184W (111.2)	4971.6 (0.5)	51Cr (749.0)
4891.0 (0.6)	167Er (207.8)	4925.2 (3.6)	158Gd (181.9)	4972.7 (0.5)	104Rh (180.9)
4891.3 (0.6)	68Zn (1077.4)	4925.9 (5.0)	182Ta (270.4)	4973.0 (1.2)	138Ba (818.6)
4891.4 (<0.1)	96Mo (778.3)	4926.1 (1.8)	77Se (238.9)	4973.0 (1.6)	236U (642.2)
4891.5 (0.3)	51Cr (749.0)	4927.2 (0.5)	188Re (63.6)	4973.1 (1.8)	188Re (63.6)
4891.6 (0.6)	158Gd (181.9)	4927.3 (<0.1)	98Mo (787.4)	4973.1 (0.6)	198Au (214.8)
4892.1 (2.8)	184W (111.2)	4928.0 (10.4)	151Sm (5288.0)	4974.5 (0.1)	96Mo (778.3)
4893.4 (1.0)	188Re (63.6)	4929.4 (0.8)	136Ba (818.6)	4974.7 (0.1)	200Hg (367.9)
4894.9 (8.3)	239Pu (4821.8)	4930.7 (1.6)	194Ir (371.7)	4975.0 (7.9)	46Sc (227.8)
4895.0	135Ba	4930.9 (<0.1)	134Cs (116.4)	4975.0 (0.3)	171Er (197.9)
4895.3 (<0.1)	134Cs (116.4)	4931.3 (0.3)	98Mo (787.4)	4975.1 (7.5)	146Nd (7110.8)
4896.0 (0.2)	70Ga (508.4)	4931.6 (1.8)	198Au (214.8)	4975.8 (13.0)	145Nd (852.8)
4897.0 (8.2)	151Sm (5288.0)	4932.0 (28.4)	185W (4573.6)	4976.1	81Se
4897.4 (3.0)	198Au (214.8)	4933.6 (1.1)	96Mo (778.3)	4977.4 (11.0)	147Nd (314.7)
4898.1 (0.4)	80Br (37.1)	4934.1 (0.5)	80Br (37.1)	4977.6 (0.8)	194Ir (371.7)
4898.2 (2.3)	171Yb (6614.7)	4935.0 (1.3)	76As (165.0)	4977.8 (0.2)	68Zn (1077.4)
4898.9 (2.2)	159Gd (5942.0)	4935.2 (2.0)	56Mn (26.6)	4978.0 (0.8)	76As (165.0)
4899.4 (1.1)	68Zn (1077.4)	4935.2 (0.2)	68Zn (1077.4)	4978.0 (0.2)	148Sm (550.0)
4899.4 (1.3)	196Pt (356.1)	4936.0 (13.6)	66Cu (185.9)	4978.3 (0.4)	104Rh (180.9)
4899.8 (1.3)	71Ge (499.8)	4937.8 (12.0)	182Ta (270.4)	4979.0 (0.6)	70Ga (508.4)
4900.6 (1.2)	104Rh (180.9)	4938.5 (0.5)	177Lu (150.4)	4980.2 (21.0)	182Ta (270.4)
4901.7 (1.5)	184W (111.2)	4939.5 (1.0)	158Gd (181.9)	4980.5 (15.9)	185W (4573.6)
4902.0 (0.2)	132Xe (667.5)	4940.3 (0.6)	198Au (214.8)	4980.5 (1.0)	198Au (214.8)
4902.0 (6.6)	155Sm (4988.0)	4941.6 (0.4)	96Mo (778.3)	4980.6 (2.6)	71Ge (499.8)
4902.5 (100.0)	111Pd (4902.5)	4943.7 (3.7)	105Ru (143.2)	4981.5 (0.4)	184W (111.2)
4902.7 (0.7)	236U (642.2)	4945.0 (<0.1)	132Xe (667.5)	4981.5 (0.7)	98Mo (787.4)
4902.9	175Yb	4945.0 (3.0)	204Tl (139.9)	4982.0 (<0.1)	170Tm (204.5)
4903.8 (1.3)	146Nd (7110.8)	4946.0 (3.3)	60Co (229.8)	4982.4 (1.9)	204Tl (139.8)
4903.8 (18.5)	238Np (5352.0)	4946.0 (1.6)	76As (165.0)	4982.9 (0.3)	56Mn (26.6)
4904.0 (2.4)	66Cu (185.9)	4946.1 (2.4)	153Sm (127.3)	4983.0 (0.2)	132Xe (667.5)

Table I. CAPTURE γ 's - energy sorted (cont.)

Ex keV ($\% \gamma$)	Nucleus (Strongest γ)	Ex keV ($\% \gamma$)	Nucleus (Strongest γ)	Ex keV ($\% \gamma$)	Nucleus (Strongest γ)
4983.0 (4.7)	159Gd (5942.0)	5012.8 (<0.1)	134Cs (116.4)	5047.3 (0.2)	55Cr (6246.4)
4983.1 (29.0)	87Kr (1475.9)	5013.0 (0.9)	76As (165.0)	5048.0 (16.0)	66Cu (185.9)
4984.2 (0.6)	177Lu (150.4)	5013.9 (2.0)	194Ir (371.7)	5048.3 (6.3)	146Nd (7110.8)
4985.4 (<0.1)	96Mo (778.3)	5014.2 (<0.1)	96Mo (778.3)	5049.1 (20.1)	77Ge (3895.2)
4985.9 (0.2)	78Se (613.8)	5015.0 (34.0)	56Mn (26.6)	5049.3 (0.9)	160Tb (75.1)
4986.0 (0.9)	76As (165.0)	5015.0 (0.7)	72Ga (145.1)	5049.3 (1.9)	188Re (63.6)
4986.1 (<0.1)	92Zr (934.5)	5015.7 (5.3)	204Tl (139.9)	5049.9 (0.2)	68Zn (1077.4)
4986.8 (18.2)	185W (4573.6)	5015.9 (15.9)	184W (111.2)	5049.9 (0.7)	80Br (37.1)
4987.0 (0.4)	72Ga (145.1)	5016.4 (1.3)	177Lu (150.4)	5050.0 (<0.1)	170Tm (204.5)
4987.1 (0.3)	80Br (37.1)	5017.6 (<0.1)	98Mo (787.4)	5050.2 (0.4)	200Hg (367.9)
4987.6 (0.6)	88Sr (1836.1)	5018.3 (0.4)	68Zn (1077.4)	5050.8 (0.3)	166Ho (136.7)
4987.9 (2.0)	188Re (63.6)	5018.4 (<0.1)	96Mo (778.3)	5051.0 (0.4)	70Ga (508.4)
4988.0 (3.8)	50Ti (1555.0)	5020.4 (1.8)	142Pr (176.9)	5051.6 (<0.1)	150Sm (334.0)
4988.0 (100.0)	155Sm (4988.0)	5020.6 (1.2)	188Re (63.6)	5052.1 (<0.1)	98Mo (787.4)
4988.0 (0.6)	166Ho (136.7)	5020.9 (1.3)	104Rh (180.9)	5053.0 (3.8)	142Pr (176.9)
4988.1 (1.8)	71Ge (499.8)	5021.9 (4.4)	184W (111.2)	5053.0 (<0.1)	148Sm (550.0)
4988.4 (<0.1)	98Mo (787.4)	5023.3 (<0.1)	134Cs (116.4)	5053.0 (2.7)	167Er (207.8)
4988.5 (8.5)	75Ge (574.7)	5023.4 (76.7)	105Ru (143.2)	5053.2 (0.2)	177Lu (150.4)
4989.7 (1.4)	160Tb (75.1)	5023.4 (1.1)	177Lu (150.4)	5053.7 (0.6)	198Au (214.8)
4989.9 (0.1)	196Pt (356.1)	5023.7 (0.9)	80Br (37.1)	5054.0 (1.8)	72Ga (145.1)
4990.7 (5.0)	238Np (5352.0)	5024.0 (<0.1)	74Ge (595.7)	5054.9 (0.3)	61Ni (7819.6)
4990.9 (1.4)	146Nd (7110.8)	5024.0 (0.9)	76As (165.0)	5057.0 (0.4)	5057.0 (0.4)
4991.0 (0.3)	96Mo (778.3)	5024.6 (1.1)	198Au (214.8)	5057.2 (<0.1)	96Mo (778.3)
4992.0 (0.2)	68Zn (1077.4)	5025.0 (7.7)	77Se (238.9)	5058.2 (1.7)	158Gd (181.9)
4992.1 (0.5)	75Se (286.6)	5025.3 (6.3)	185W (4573.6)	5058.4 (0.5)	103Ru (174.0)
4993.2 (4.7)	52V (125.1)	5026.0 (0.1)	132Xe (667.5)	5058.4 (0.6)	194Ir (371.7)
4993.2 (0.6)	194Ir (371.7)	5026.5 (0.1)	166Ho (136.7)	5058.5 (0.4)	80Br (37.1)
4994.1 (0.4)	136Ba (818.6)	5027.4 (<0.1)	96Mo (778.3)	5059.1 (0.6)	181W (111.2)
4995.2 (0.3)	196Pt (356.1)	5027.5 (0.7)	158Gd (181.9)	5060.1 (0.1)	177Lu (150.4)
4995.6 (<0.1)	92Zr (934.5)	5027.5 (0.9)	173Yb (399.4)	5060.2 (0.4)	104Rh (180.9)
4996.0 (2.6)	76As (165.0)	5028.0 (19.7)	155Sm (4988.0)	5060.9 (0.5)	196Pt (356.1)
4997.1 (1.1)	147Nd (314.7)	5028.1 (4.5)	194Ir (371.7)	5062.5 (4.0)	182Ta (270.4)
4997.5	81Se	5029.0 (0.2)	70Ga (508.4)	5062.8 (0.2)	96Mo (778.3)
4998.0 (0.6)	62Ni (1172.8)	5030.2 (1.5)	160Tb (75.1)	5062.8 (0.5)	188Re (63.6)
4998.5 (2.0)	140La (5097.9)	5030.4 (0.2)	80Br (37.1)	5063.5 (4.7)	71Ge (499.8)
4998.9 (0.9)	48Ti (983.7)	5030.5 (56.6)	238Np (5352.0)	5063.8 (0.9)	48Ti (983.7)
4999.0 (1.5)	70Ga (508.4)	5031.0 (0.3)	72Ga (145.1)	5064.5 (0.4)	75Se (286.6)
4999.1 (3.4)	198Au (214.8)	5031.1 (0.3)	147Nd (314.7)	5065.0 (0.2)	74Ge (595.7)
4999.9 (0.2)	96Mo (778.3)	5031.4 (0.2)	104Rh (180.9)	5066.0 (0.2)	132Xe (667.5)
5000.3 (6.8)	75Ge (574.7)	5031.9 (0.3)	98Mo (787.4)	5066.5	175Hf
5000.3 (0.2)	80Br (37.1)	5033.3 (0.1)	196Pt (356.1)	5066.9 (0.1)	177Lu (150.4)
5000.8 (2.1)	188Re (63.6)	5034.6 (13.0)	182Ta (270.4)	5067.1 (1.8)	160Tb (75.1)
5001.0 (2.3)	58Fe (810.5)	5035.0 (0.3)	148Sm (550.0)	5068.0 (0.8)	70Ga (508.4)
5002.4 (4.2)	60Co (229.8)	5035.2 (2.1)	198Au (214.8)	5068.0 (1.4)	76As (165.0)
5002.5 (0.5)	158Gd (181.9)	5035.5 (5.7)	56Mn (26.6)	5068.3 (15.2)	56Mn (26.6)
5002.5 (0.2)	98Mo (787.4)	5036.3 (1.7)	146Nd (7110.8)	5069.0 (2.4)	60Co (229.8)
5002.5 (3.6)	146Nd (7110.8)	5036.5 (0.7)	68Zn (1077.4)	5069.3 (1.8)	101Mo (180.7)
5003.0 (0.3)	70Ga (508.4)	5036.5 (0.1)	166Ho (136.7)	5070.0 (0.5)	104Rh (180.9)
5003.0 (0.2)	142Sm (550.0)	5036.9 (0.2)	104Rh (180.9)	5070.8 (14.3)	241Pu (4276.5)
5003.4 (0.2)	68Zn (1077.4)	5037.7 (10.1)	191Os (5147.1)	5071.4 (3.7)	194Ir (371.7)
5003.8 (<0.1)	96Mo (778.3)	5038.0 (0.8)	70Ga (508.4)	5072.0 (0.6)	70Ga (508.4)
5004.0 (0.5)	72Ga (145.1)	5038.0 (0.3)	76As (165.0)	5072.1 (2.5)	163Dy (351.1)
5004.3 (1.1)	104Rh (180.9)	5038.4 (0.3)	48Ti (983.7)	5072.2 (0.1)	96Mo (778.3)
5005.0 (0.6)	142Pr (176.9)	5038.7 (1.4)	60Co (229.8)	5073.2 (7.3)	188Re (63.6)
5005.6 (29.0)	182Ta (270.4)	5038.9 (<0.1)	96Mo (778.3)	5073.2 (2.9)	146Nd (7110.8)
5005.7 (0.8)	147Nd (314.7)	5039.3 (0.5)	147Nd (314.7)	5073.8 (0.1)	68Zn (1077.4)
5006.3 (<0.1)	92Zr (934.5)	5039.5 (0.1)	177Lu (150.4)	5075.3 (0.1)	177Lu (150.4)
5006.5 (1.6)	194Ir (371.7)	5040.1 (0.5)	188Re (63.6)	5075.8 (4.0)	182Ta (270.4)
5007.4 (3.2)	184W (111.2)	5040.8 (2.4)	184W (111.2)	5075.9 (4.1)	75Ge (574.7)
5007.5 (0.6)	198Au (214.8)	5041.1 (0.5)	158Gd (181.9)	5077.0 (2.3)	170Tm (204.5)
5008.9 (0.3)	96Mo (778.3)	5042.0 (25.5)	66Cu (185.9)	5077.4 (0.1)	96Mo (778.3)
5010.2 (8.1)	191Os (5147.1)	5042.3 (0.4)	96Mo (778.3)	5077.6 (3.9)	147Nd (314.7)
5011.0 (3.6)	155Sm (4988.0)	5042.5 (2.1)	198Au (214.8)	5077.8 (<0.1)	150Sm (334.0)
5011.1 (0.4)	166Ho (136.7)	5043.3 (10.2)	146Nd (7110.8)	5078.0 (0.4)	72Ga (145.1)
5011.2	175Yb	5044.0 (16.2)	58Fe (810.5)	5078.1 (0.3)	196Pt (356.1)
5011.4 (0.6)	68Zn (1077.4)	5044.1 (0.6)	77Se (238.9)	5078.3 (1.3)	77Se (238.9)
5011.9 (1.4)	160Tb (75.1)	5046.3 (39.3)	238Np (5352.0)	5078.5 (7.7)	171Yb (6614.7)
5011.9 (19.6)	146Nd (7110.8)	5046.5 (1.0)	136Ba (818.6)	5079.0 (0.1)	148Sm (550.0)
5012.1 (0.7)	80Br (37.1)	5046.6 (1.3)	196Pt (356.1)	5079.4 (0.4)	80Br (37.1)
5012.7 (4.1)	188Re (63.6)	5047.0 (0.5)	72Ga (145.1)	5080.0 (0.5)	132Xe (667.5)

Table I. CAPTURE γ 's - energy sorted (cont.)

By keV (χ ly)	Nucleus (Strongest γ)	By keV (χ ly)	Nucleus (Strongest γ)	By keV (χ ly)	Nucleus (Strongest γ)
5080.3 (1.2)	188Re (63.6)	5110.4 (0.2)	68Zn (1077.4)	5142.2 (20.3)	52V (125.1)
5080.3 (47.6)	241Pu (4276.5)	5110.6 (0.4)	80Br (37.1)	5142.4 (0.3)	158Gd (181.9)
5080.3 (0.3)	98Mo (787.4)	5111.7 (1.7)	56Mn (26.6)	5142.6 (3.2)	165Dy (108.2)
5080.9 (2.7)	198Au (214.8)	5112.6 (0.7)	177Lu (150.4)	5142.9 (0.4)	104Rh (180.9)
5081.9 (1.1)	166Ho (136.7)	5113.6 (0.5)	158Gd (181.9)	5142.9 (<0.1)	169Er (429.9)
5081.9 (0.2)	177Lu (150.4)	5115.2 (2.0)	205Pb (6731.5)	5143.0 (<0.1)	70Ga (508.4)
5082.0 (1.7)	70Ga (508.4)	5115.2 (14.6)	238Np (5352.0)	5144.8 (0.1)	177Lu (150.4)
5082.0 (3.5)	76As (787.4)	5116.2 (0.3)	194Ir (371.7)	5145.3 (0.5)	194Ir (371.7)
5082.2 (0.4)	104Rh (180.9)	5116.4 (11.3)	184W (111.2)	5145.4 (7.1)	151Nd (4487.8)
5084.0 (12.0)	185Os (6588.0)	5116.8 (0.2)	196Pt (356.1)	5145.5 (0.3)	143Ce (4337.8)
5084.5 (<0.1)	68Zn (1077.4)	5117.1 (0.9)	188Re (63.6)	5146.0 (0.4)	132Xe (667.5)
5086.0 (<0.1)	54Cr (8884.1)	5117.9 (6.1)	153Sm (127.3)	5146.0	135Ba
5086.0 (1.9)	105Ru (143.2)	5118.0 (8.0)	185Os (6588.0)	5146.2 (0.1)	166Ho (136.7)
5086.2 (0.5)	48Ti (983.7)	5118.1 (0.3)	96Mo (778.3)	5146.2 (<0.1)	98Mo (787.4)
5086.2 (0.8)	75Se (286.6)	5118.7 (2.1)	198Au (214.8)	5146.6 (100.0)	49Ca (5146.6)
5086.3 (5.5)	198Au (214.8)	5119.0 (0.6)	76As (165.0)	5147.1 (100.0)	191Os (5147.1)
5088.0 (15.5)	75Ge (574.7)	5119.4 (0.3)	80Br (37.1)	5147.4 (9.0)	182Ta (270.4)
5088.0 (3.1)	66Cu (185.9)	5120.0 (20.6)	238Np (5352.0)	5148.0 (<0.1)	96Mo (778.3)
5088.6 (0.3)	188Re (63.6)	5121.2 (0.8)	163Dy (351.1)	5148.0 (<0.1)	170Tm (204.5)
5089.6 (<0.1)	96Mo (778.3)	5121.4 (1.8)	191Os (5147.1)	5148.3 (1.6)	60Co (229.8)
5090.2 (0.2)	177Lu (150.4)	5122.0 (2.1)	170Tm (204.5)	5148.9 (1.7)	87Sr (8039.8)
5090.6 (0.3)	98Mo (787.4)	5122.7 (1.4)	103Ru (174.0)	5148.9 (0.4)	188Re (63.6)
5090.7 (0.7)	184W (111.2)	5122.8 (1.8)	171Yb (6614.7)	5149.0 (0.9)	76As (165.0)
5090.8 (0.5)	68Zn (1077.4)	5123.0 (9.0)	182Ta (270.4)	5149.7 (<0.1)	200Hg (367.9)
5091.2 (1.0)	194Ir (371.7)	5123.8 (0.7)	166Ho (136.7)	5149.8 (48.6)	145Sm (5863.0)
5091.7 (65.4)	185W (4573.6)	5123.8 (58.0)	240Pu (5575.0)	5149.9 (5.1)	198Au (214.8)
5091.7 (0.6)	80Br (37.1)	5124.0 (0.6)	72Ga (145.1)	5150.0 (0.4)	148Sm (550.0)
5092.0 (0.3)	58Fe (810.5)	5124.4 (<0.1)	96Mo (778.3)	5150.1 (<0.1)	134Cs (116.4)
5092.0 (1.3)	72Ga (145.1)	5124.7 (0.1)	177Lu (150.4)	5150.7 (0.4)	147Nd (314.7)
5092.0 (0.1)	148Sm (550.0)	5125.5 (20.7)	105Ru (143.2)	5150.7 (0.3)	80Br (37.1)
5092.4 (0.4)	158Gd (181.9)	5125.5 (0.5)	98Mo (787.4)	5151.7 (0.2)	51Cr (749.0)
5093.0 (0.8)	76As (165.0)	5125.8 (0.9)	146Nd (7110.8)	5151.8 (0.2)	166Ho (136.7)
5093.0 (<0.1)	150Sm (334.0)	5126.3 (0.3)	188Re (63.6)	5152.8 (2.7)	104Rh (180.9)
5094.0 (0.6)	104Rh (180.9)	5126.4 (0.3)	51Cr (749.0)	5153.0 (11.0)	182Ta (270.4)
5094.7	179Hf	5126.6 (11.2)	140La (5097.9)	5153.5 (6.4)	198Au (214.8)
5094.7 (2.6)	146Nd (7110.8)	5127.0 (<0.1)	150Sm (334.0)	5153.7 (4.2)	238Np (5352.0)
5096.0 (0.4)	70Ga (508.4)	5127.3 (0.3)	96Mo (778.3)	5153.9 (0.2)	177Lu (150.4)
5096.2 (21.6)	142Pr (176.9)	5128.1 (3.1)	60Co (229.8)	5154.2 (2.8)	77Se (238.9)
5096.3 (<0.1)	96Mo (778.3)	5128.2 (1.9)	146Nd (7110.8)	5154.6 (14.6)	239Pu (4821.8)
5097.5 (0.4)	194Ir (371.7)	5128.4 (1.8)	194Ir (371.7)	5154.9 (1.0)	158Gd (181.9)
5097.9 (100.0)	140La (5097.9)	5128.6 (0.7)	166Ho (136.7)	5155.1 (0.6)	204Tl (139.9)
5098.2 (1.5)	77Se (238.9)	5129.1 (4.3)	204Tl (139.9)	5156.0 (1.5)	76As (165.0)
5098.3 (2.5)	136Ba (818.6)	5129.5 (0.8)	56Mn (26.6)	5156.1 (0.3)	78Se (613.8)
5098.5 (93.5)	197Pt (5846.3)	5130.1 (0.8)	147Nd (314.7)	5156.9 (2.9)	71Ge (499.8)
5098.8 (2.8)	196Pt (356.1)	5130.3 (<0.1)	177Lu (150.4)	5157.0 (23.5)	242Pu (5476.9)
5099.6 (3.5)	160Tb (75.1)	5130.5 (7.1)	140La (5097.9)	5158.1 (2.2)	194Ir (371.7)
5101.6 (16.4)	238Np (5352.0)	5131.0 (0.8)	146Nd (7110.8)	5159.0 (7.4)	170Tm (204.5)
5101.7 (0.2)	88Sr (1836.1)	5132.2 (<0.1)	98Mo (787.4)	5160.0 (2.7)	72Ga (145.1)
5102.0 (1.9)	56Mn (26.6)	5132.4 (<0.1)	134Cs (116.4)	5160.0 (0.3)	163Dy (351.1)
5102.2 (15.0)	182Ta (270.4)	5133.0 (1.7)	70Ga (508.4)	5160.7 (<0.1)	134Cs (116.4)
5102.8 (<0.1)	134Cs (116.4)	5133.2 (<0.1)	96Mo (778.3)	5160.9 (<0.1)	96Mo (778.3)
5103.0 (9.6)	198Au (214.8)	5133.3 (0.9)	153Sm (127.3)	5161.0 (12.2)	140La (5097.9)
5103.7 (0.2)	68Zn (1077.4)	5133.6 (0.6)	104Rh (180.9)	5161.0 (3.6)	159Gd (5942.0)
5104.3 (54.9)	101Mo (180.7)	5134.6 (1.5)	160Tb (75.1)	5161.5 (1.3)	88Sr (1836.1)
5104.4 (<0.1)	96Mo (778.3)	5134.8 (3.0)	188Re (63.6)	5162.0 (0.2)	80Br (37.1)
5105.0 (0.5)	70Ga (508.4)	5135.0 (<0.1)	200Hg (367.9)	5162.2 (0.3)	147Nd (314.7)
5105.9 (0.3)	166Ho (136.7)	5135.1 (0.8)	56Mn (26.6)	5162.6 (0.5)	68Zn (1077.4)
5106.0 (<0.1)	177Lu (150.4)	5135.1 (<0.1)	92Zr (934.5)	5163.1 (<0.1)	92Zr (934.5)
5106.9 (0.8)	104Rh (180.9)	5135.3 (0.5)	48Ti (983.7)	5163.4 (0.6)	162Dy (185.0)
5106.9 (0.5)	158Gd (181.9)	5135.9 (2.2)	173Yb (399.4)	5164.8 (4.5)	184W (111.2)
5107.2 (2.9)	138Ba (1435.6)	5137.7 (<0.1)	134Cs (116.4)	5165.0 (0.4)	74Ge (595.7)
5107.8 (0.3)	78Se (613.8)	5137.8 (15.9)	197Pt (5846.3)	5165.2 (0.7)	177Lu (150.4)
5107.8 (0.2)	96Mo (778.3)	5139.0 (0.8)	75Se (286.6)	5165.4 (7.0)	182Ta (270.4)
5107.9 (6.9)	105Ru (143.2)	5139.0 (1.7)	66Cu (185.9)	5165.7 (11.0)	45Ca (174.3)
5108.2 (1.8)	194Ir (371.7)	5140.0 (0.1)	196Pt (356.1)	5165.8 (<0.1)	98Mo (787.4)
5108.5 (1.2)	163Dy (351.1)	5140.4 (39.2)	142Pr (176.9)	5166.5 (1.8)	60Co (229.8)
5108.6 (0.1)	98Mo (787.4)	5140.5 (11.5)	238Np (5352.0)	5167.6 (1.6)	188Re (63.6)
5109.0 (1.2)	165Dy (108.2)	5140.8 (0.2)	96Mo (778.3)	5169.0 (0.6)	194Ir (371.7)
5109.5 (1.7)	198Au (214.8)	5141.0 (0.4)	138Ba (818.6)	5169.1 (0.2)	68Zn (1077.4)
5110.0 (0.1)	132Xe (667.5)	5141.1 (3.8)	198Au (214.8)	5169.2 (1.6)	77Se (238.9)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\times 10^3$)	Nucleus (Strongest γ)	E_{γ} keV ($\times 10^3$)	Nucleus (Strongest γ)	E_{γ} keV ($\times 10^3$)	Nucleus (Strongest γ)
5169.5	169Yb	5202.4	98Mo	5233.9	177Yb
5170.0	98Mo	5203.0	160Tb	5234.0	72Ga
5170.7	177Lu	5203.8	104Rh	5234.0	176Lu
5172.3	204Tl	5204.3	77Se	5234.3	68Zn
5172.4	153Sm	5204.9	194Ir	5237.7	104Rh
5172.9	96Mo	5208.0	124Sb	5238.0	150Sm
5173.0	150Sm	5208.0	134Cs	5238.0	153Sm
5173.0	155Sm	5208.0	185Os	5238.0	238Np
5173.1	104Rh	5208.1	51Ti	5238.3	73Ge
5173.4	196Pt	5208.1	51Cr	5238.6	158Gd
5173.8	80Br	5206.3	68Zn	5239.1	105Ru
5174.5	162Dy	5206.3	142Pr	5240.0	132Xe
5174.7	198Au	5206.4	198Au	5240.2	204Tl
5175.0	165Dy	5206.8	182Ta	5241.0	58Fe
5176.0	70Ga	5207.6	146Nd	5241.0	161Gd
5176.0	148Sm	5208.0	76As	5242.8	188Re
5176.5	147Nd	5208.2	80Br	5242.9	184W
5176.9	239Pu	5209.9	52V	5243.0	151Sm
5177.4	96Mo	5210.0	167Er	5243.0	152Sm
5178.0	76As	5210.2	166Ho	5243.0	162Dy
5178.2	194Ir	5210.2	177Lu	5244.0	70Ga
5178.3	177Lu	5211.0	118Sn	5244.4	198Au
5178.7	158Gd	5212.0	58Fe	5245.0	66Cu
5179.0	171Yb	5212.6	60Co	5245.2	242Pu
5180.1	61Ni	5212.7	147Nd	5245.3	56Mn
5180.2	104Rh	5212.8	98Mo	5245.8	182Ta
5181.0	68Zn	5213.0	170Tm	5245.9	68Zn
5181.2	60Co	5213.1	177Lu	5245.9	235U
5181.4	182Ta	5213.7	236U	5246.0	177Lu
5181.5	136Ba	5214.2	166Ho	5246.3	75Se
5181.5	204Tl	5215.0	70Ga	5247.2	96Mo
5181.6	56Mn	5215.7	96Mo	5247.4	169Yb
5181.9	124Sb	5217.2	163Dy	5248.5	98Mo
5182.0	166Ho	5217.4	80Br	5248.6	160Tb
5182.4	92Zr	5217.6	104Rh	5250.2	158Gd
5182.5	163Dy	5217.8	198Au	5250.2	1910s
5182.8	184W	5219.6	68Zn	5251.0	104Rh
5184.5	147Nd	5220.3	177Lu	5251.0	148Sm
5184.9	194Ir	5220.4	153Sm	5252.0	150Sm
5184.9	196Pt	5220.8	75Se	5252.0	151Sm
5185.7	158Gd	5221.2	48Ti	5252.4	78Se
5186.8	104Rh	5221.9	51Cr	5252.6	175Hf
5187.3	96Mo	5222.1	96Mo	5252.8	96Mo
5187.9	177Lu	5222.3	98Mo	5253.0	134Cs
5189.0	70Ga	5223.0	58Fe	5253.5	147Nd
5189.2	184W	5223.0	70Ga	5254.3	56Mn
5190.0	151Sm	5223.0	72Ga	5254.6	196Pt
5190.6	177Yb	5223.1	104Rh	5255.1	98Mo
5190.9	71Ge	5223.1	198Au	5256.3	88Sr
5191.8	188Re	5223.1	79Se	5257.0	72Ga
5191.9	80Br	5223.4	134Cs	5257.3	104Rh
5192.0	64Cu	5224.0	148Sm	5257.9	166Ho
5192.2	177Lu	5224.5	188Re	5258.0	176Lu
5192.2	194Ir	5225.0	74Ge	5258.2	177Lu
5193.0	70Ga	5225.0	124Sb	5259.0	159Gd
5193.3	96Mo	5226.1	171Yb	5259.0	167Er
5194.0	118Sn	5226.1	198Au	5260.0	187W
5194.3	68Zn	5226.3	160Tb	5260.8	96Mo
5195.0	76As	5227.2	96Mo	5261.8	187W
5195.9	164Dy	5227.7	182Ta	5262.0	64Cu
5196.0	72Ga	5229.3	238Np	5262.1	47Ca
5196.5	96Mo	5230.0	69Zn	5262.3	98Mo
5196.5	162Dy	5230.0	134Cs	5262.8	194Ir
5196.8	236U	5230.2	124Sb	5262.8	204Tl
5199.0	159Gd	5230.4	177Lu	5263.2	188Re
5199.1	56Mn	5231.1	80Br	5263.6	92Zr
5199.7	124Sb	5231.7	194Ir	5263.7	134Cs
5200.0	47Ti	5231.7	98Mo	5264.6	48Ti
5201.9	134Cs	5233.0	76As	5264.8	96Mo
5202.0	132Xe	5233.6	166Ho	5265.0	70Ga

Table I. CAPTURE γ 's - energy sorted (cont.)

Ex keV (χ_{γ})	Nucleus (Strongest γ)	Ex keV (χ_{γ})	Nucleus (Strongest γ)	Ex keV (χ_{γ})	Nucleus (Strongest γ)
5265.1 (0.3)	158Gd (181.9)	5297.6 (0.9)	52V (125.1)	5333.7 (<0.1)	177Lu (150.4)
5266.4 (4.4)	104Rh (180.9)	5297.6 (1.1)	184W (111.2)	5333.7 (<0.1)	98Mo (787.4)
5266.7	175Yb	5297.9 (1.9)	235U (4155.1)	5334.0 (1.1)	70Ga (508.4)
5267.0 (4.7)	46Sc (227.8)	5298.0 (0.2)	104Rh (180.9)	5334.4	169Yb
5267.8 (1.3)	52V (125.1)	5298.3 (0.3)	56Mn (26.6)	5334.5 (10.6)	151Nd (4487.8)
5267.9 (0.5)	177Lu (150.4)	5298.5 (0.6)	142Pr (176.9)	5335.2 (1.1)	163Dy (351.1)
5268.0 (5.1)	159Gd (5942.0)	5300.6 (3.8)	87Sr (8039.8)	5336.0 (<0.1)	150Sm (334.0)
5268.0 (0.2)	176Lu (71.5)	5300.7 (0.5)	194Ir (371.7)	5336.1 (0.5)	158Gd (181.9)
5269.1 (4.4)	71Ge (499.8)	5300.8 (0.7)	88Sr (1836.1)	5336.6 (0.4)	80Br (37.1)
5269.6 (5.5)	60Co (229.3)	5302.0 (0.6)	70Ga (508.4)	5336.8 (9.8)	173Yb (399.4)
5269.6 (8.5)	242Pu (5476.9)	5302.0 (0.3)	98Mo (787.4)	5338.2 (1.4)	146Nd (7110.8)
5270.0 (0.6)	76As (165.0)	5302.4 (0.6)	176Lu (71.5)	5338.3	124Sb
5270.0 (5.2)	155Sm (4988.0)	5303.0 (0.2)	72Ga (145.1)	5338.4 (<0.1)	54Cr (8884.1)
5270.4 (9.4)	53Cr (7939.6)	5303.0 (1.3)	76As (165.0)	5338.5 (0.5)	166Ho (136.7)
5271.0 (0.5)	72Ga (145.1)	5303.0 (2.1)	198Au (214.8)	5339.0 (7.2)	72Ga (145.1)
5271.0 (7.0)	1850s (6588.0)	5305.7 (7.9)	238Np (5352.0)	5339.7 (0.5)	75Se (286.6)
5271.0 (<0.1)	138Ba (1435.6)	5306.0 (4.2)	159Gd (5942.0)	5340.0 (0.3)	68Zn (1077.4)
5271.1 (16.2)	1910s (5147.1)	5306.2 (0.7)	158Gd (181.9)	5340.3 (0.2)	136Ba (818.6)
5271.5 (6.0)	238Np (5352.0)	5306.3 (63.0)	101Ru (6271.4)	5341.6 (19.7)	1910s (5147.1)
5272.0 (0.8)	70Ga (508.4)	5307.0 (3.4)	196Pt (356.1)	5342.0 (0.3)	70Ga (508.4)
5272.1 (4.3)	198Au (214.8)	5307.3 (1.0)	184W (111.2)	5342.6 (0.4)	158Gd (181.9)
5272.4 (0.6)	80Br (37.1)	5307.7	175Yb	5343.3 (35.0)	182Ta (270.4)
5275.4 (0.9)	77Se (238.9)	5307.9	124Sb	5343.9 (1.5)	177Lu (150.4)
5276.0 (4.6)	87Sr (8039.8)	5308.0 (2.2)	198Au (214.8)	5344.0 (3.6)	197Pt (5846.3)
5276.0 (100.0)	1930s (5276.0)	5308.3 (0.4)	194Ir (371.7)	5344.8 (3.0)	146Nd (7110.8)
5276.5 (43.1)	151Nd (4487.8)	5310.9 (1.4)	48Ti (983.7)	5345.0 (0.4)	76As (165.0)
5276.8 (0.5)	88Sr (1836.1)	5311.5 (0.3)	104Rh (180.9)	5345.0 (6.7)	159Gd (5942.0)
5279.5 (<0.1)	96Mo (778.3)	5311.9 (3.7)	136Ba (818.6)	5345.0 (0.5)	176Lu (71.5)
5279.5 (4.0)	198Au (214.8)	5312.0 (0.8)	70Ga (508.4)	5345.0 (1.7)	194Ir (371.7)
5279.5 (0.4)	80Br (37.1)	5312.0	169Yb	5345.9 (0.8)	68Zn (1077.4)
5279.9 (20.0)	101Ru (6271.4)	5312.8 (2.2)	184W (111.2)	5346.2 (1.5)	198Au (214.8)
5280.0 (100.0)	161Gd (5280.0)	5313.3 (0.7)	188Re (63.6)	5346.5 (6.9)	104Rh (180.9)
5280.4 (0.5)	158Gd (181.9)	5313.6 (0.4)	56Mn (26.6)	5347.0 (0.9)	116In (273.0)
5280.6 (9.0)	182Ta (270.4)	5314.0 (0.3)	72Ga (145.1)	5347.1 (<0.1)	92Zr (934.5)
5280.8 (1.3)	194Ir (371.7)	5314.8 (0.3)	188Re (63.6)	5347.3 (0.1)	162Dy (185.0)
5281.0 (0.4)	148Sm (550.0)	5315.0 (83.3)	151Sm (5288.0)	5347.6 (<0.1)	96Mo (778.3)
5281.1	169Yb	5315.5 (1.6)	1900s (186.7)	5348.3 (3.2)	1930s (5276.0)
5281.2 (17.8)	204Tl (139.9)	5316.1 (0.2)	98Mo (787.4)	5348.5 (0.3)	164Dy (73.4)
5281.9 (0.1)	166Ho (136.7)	5316.8 (2.0)	80Br (37.1)	5348.7 (2.7)	184W (111.2)
5282.0 (0.2)	72Ga (145.1)	5316.9 (2.4)	194Ir (371.7)	5348.7 (3.5)	188Re (63.6)
5282.2 (0.2)	150Sm (334.0)	5317.4 (0.2)	96Mo (778.3)	5349.0 (0.2)	74Ge (595.7)
5283.7 (<0.1)	98Mo (787.4)	5319.0 (0.4)	72Ga (145.1)	5351.0 (2.4)	167Er (207.8)
5283.9 (0.5)	153Sm (127.3)	5319.4 (<0.1)	150Sm (334.0)	5352.0 (100.0)	238Np (5352.0)
5284.3 (0.4)	96Mo (778.3)	5319.4 (1.0)	177Lu (150.4)	5352.7 (0.3)	166Ho (136.7)
5284.4 (4.1)	171Yb (6614.7)	5320.0 (25.8)	66Cu (185.9)	5353.3 (0.9)	80Br (37.1)
5284.6 (11.2)	184W (111.2)	5320.0 (2.1)	187W (5261.8)	5354.9 (0.3)	104Rh (180.9)
5284.6 (3.5)	235U (4155.1)	5320.9 (70.6)	187W (5261.8)	5355.0 (3.6)	198Au (214.8)
5285.0 (0.8)	76As (165.0)	5321.0 (18.5)	161Gd (5280.0)	5355.1 (0.4)	184W (111.2)
5286.0 (1.6)	46Sc (227.8)	5321.2 (2.9)	184W (111.2)	5356.0 (0.1)	74Ge (595.7)
5286.5 (1.0)	160Tb (75.1)	5321.5 (0.5)	160Tb (75.1)	5356.8 (0.1)	98Mo (787.4)
5286.8	124Sb	5323.0 (1.0)	104Rh (180.9)	5357.0 (0.3)	80Br (37.1)
5287.6 (1.0)	68Zn (1077.4)	5323.2 (0.9)	236U (642.2)	5357.9 (2.1)	60Co (229.8)
5288.0 (100.0)	151Sm (5288.0)	5323.8 (0.7)	177Lu (150.4)	5358.2 (5.9)	194Ir (371.7)
5288.9 (0.7)	80Br (37.1)	5324.2	124Sb	5358.4 (1.1)	116In (273.0)
5289.0 (<0.1)	169Er (429.9)	5324.7 (<0.1)	1900s (186.7)	5359.1 (<0.1)	134Cs (116.4)
5289.5 (0.8)	75Se (286.6)	5324.9 (1.1)	103Ru (174.0)	5359.5 (<0.1)	92Zr (934.5)
5289.8 (<0.1)	188Re (63.6)	5325.0 (0.3)	76As (165.0)	5359.5 (14.0)	205Pb (6731.5)
5289.9 (36.0)	242Pu (5476.9)	5326.0 (1.5)	170Tm (204.5)	5359.7 (0.3)	188Re (63.6)
5290.3 (0.3)	56Mn (26.6)	5326.2 (0.1)	96Mo (778.3)	5360.0 (0.6)	76As (165.0)
5290.7 (<0.1)	134Cs (116.4)	5327.2 (1.2)	103Ru (174.0)	5360.0 (8.3)	170Tm (204.5)
5291.6 (1.1)	194Ir (371.7)	5329.0 (<0.1)	148Sm (550.0)	5360.9 (0.4)	166Ho (136.7)
5292.7 (38.0)	240Pu (5575.0)	5329.0 (4.6)	155Sm (4988.0)	5361.0 (33.5)	87Sr (8039.8)
5293.1 (0.2)	158Gd (181.9)	5330.0 (9.3)	47Ti (159.0)	5361.5 (0.5)	88Sr (1836.1)
5293.6 (8.3)	173Yb (399.4)	5331.5 (3.4)	176Lu (71.5)	5363.7 (<0.1)	152Eu (89.8)
5294.0 (1.2)	76As (165.0)	5332.3 (0.1)	96Mo (778.3)	5365.2 (2.3)	198Au (214.8)
5295.3	81Se	5333.0 (3.8)	72Ga (145.1)	5366.4 (0.5)	176Lu (71.5)
5296.0 (<0.1)	177Lu (150.4)	5333.2 (1.9)	116In (273.0)	5366.5 (0.9)	80Br (37.1)
5296.5 (0.2)	188Re (63.6)	5333.4 (0.3)	78Se (613.8)	5366.7 (0.5)	177Lu (150.4)
5297.3 (0.2)	68Zn (1077.4)	5333.6	175Hf	5367.3 (4.0)	146Nd (7110.8)
5297.4 (5.0)	238Np (5352.0)	5333.7 (0.3)	104Rh (180.9)	5368.5 (1.1)	194Ir (371.7)

Table I. CAPTURE γ 's - energy sorted (cont.)

Energy (keV) (% γ)	Nucleus (Strongest γ)	Energy (keV) (% γ)	Nucleus (Strongest γ)	Energy (keV) (% γ)	Nucleus (Strongest γ)
5368.6 (9.5)	75Ge (574.7)	5403.0 (0.4)	164Dy (73.4)	5432.6 (0.4)	196Pt (356.1)
5369.0 (0.2)	74Ge (595.7)	5403.2 (2.0)	158Gd (181.9)	5432.8 (0.2)	68Zn (1077.4)
5369.3 (0.9)	78Se (613.8)	5403.9 (0.2)	68Zn (1077.4)	5432.9 (7.4)	56Mn (26.6)
5370.0 (0.4)	72Ga (145.1)	5404.0 (0.6)	72Ga (145.1)	5432.9 (<0.1)	177Lu (150.4)
5370.2	124Sb	5404.1 (1.3)	65Zn (7863.3)	5434.0 (35.6)	159Gd (5942.0)
5370.4 (0.3)	158Gd (181.9)	5404.5 (2.2)	56Mn (26.6)	5434.5 (1.3)	104Rh (180.9)
5370.5 (2.0)	60Co (229.8)	5404.8 (0.4)	98Mo (778.3)	5434.6 (9.0)	182Ta (270.4)
5370.9 (0.2)	98Mo (787.4)	5405.2 (13.1)	65Ni (6034.0)	5435.1 (<0.1)	124Te (602.4)
5371.0 (0.7)	162Dy (185.0)	5405.3 (11.6)	204Tl (139.9)	5436.3	124Sb
5371.9 (1.1)	188Re (63.6)	5405.3 (0.2)	98Mo (787.4)	5436.4 (1.1)	158Gd (181.9)
5372.0 (<0.1)	92Zr (934.5)	5405.5 (<0.1)	152Eu (89.8)	5436.5 (<0.1)	134Cs (116.4)
5372.0 (5.8)	79Se (6866.2)	5405.6 (0.9)	176Lu (71.5)	5436.6 (0.2)	78Se (613.8)
5373.4 (0.7)	236U (642.2)	5406.0 (0.5)	194Ir (371.7)	5436.7 (<0.1)	166Ho (136.7)
5375.0 (2.6)	76As (165.0)	5408.0	124Sb	5437.0 (7.1)	56Mn (26.6)
5375.0 (<0.1)	150Sm (334.0)	5408.4 (19.2)	87Sr (8039.8)	5439.2 (0.4)	177Lu (150.4)
5375.3 (2.6)	184W (111.2)	5409.5 (0.2)	188Re (63.6)	5440.0 (0.4)	70Ga (508.4)
5375.4 (<0.1)	166Ho (136.7)	5409.5 (0.6)	190Os (186.7)	5441.0 (<0.1)	169Er (429.9)
5376.7 (0.7)	194Ir (371.7)	5409.9 (1.2)	116In (273.0)	5442.0 (0.1)	68Zn (1077.4)
5376.9 (<0.1)	134Cs (116.4)	5410.7 (0.7)	163Dy (351.1)	5442.7 (0.2)	116In (273.0)
5377.1 (<0.1)	98Mo (778.3)	5411.0 (<0.1)	98Mo (778.4)	5443.0 (0.3)	72Ga (145.1)
5378.0 (0.3)	152Eu (89.8)	5411.4 (0.3)	166Ho (136.7)	5443.0 (0.8)	76As (165.0)
5379.4	179Hf	5411.9 (7.4)	182Ta (270.4)	5444.0 (9.6)	105Ru (143.2)
5380.0 (1.5)	184W (111.2)	5412.1 (<0.1)	152Eu (89.8)	5444.4 (<0.1)	124Te (602.4)
5380.8 (0.3)	68Zn (1077.4)	5413.0 (0.2)	194Ir (371.7)	5444.7 (1.9)	77Ge (3895.2)
5380.8 (15.5)	143Nd (742.1)	5413.4 (0.1)	150Sm (334.0)	5444.8 (0.7)	190Os (186.7)
5382.0 (0.7)	170Tm (204.5)	5413.5 (0.8)	104Rh (180.9)	5445.7 (0.6)	52V (125.1)
5382.0 (0.7)	176Lu (71.5)	5414.4	124Sb	5446.0 (0.2)	114In (311.7)
5382.8 (0.2)	177Lu (150.4)	5414.7 (2.3)	105Ru (143.2)	5446.1 (2.0)	176Lu (71.5)
5384.5 (6.2)	71Ge (499.8)	5415.0 (5.0)	185Os (6588.0)	5446.4 (0.4)	98Mo (787.4)
5384.9 (0.1)	116In (273.0)	5415.3 (0.2)	68Zn (1077.4)	5446.7	124Sb
5385.0 (19.1)	159Gd (5942.0)	5415.3 (0.1)	184W (111.2)	5446.7 (0.3)	80Br (37.1)
5385.2 (0.7)	163Dy (351.1)	5415.8 (2.2)	136Ba (818.6)	5447.0 (<0.1)	74Ge (595.7)
5385.2 (<0.1)	98Mo (787.4)	5416.0 (3.4)	170Tm (204.5)	5447.0 (0.4)	170Tm (204.5)
5387.0 (2.1)	66Cu (185.9)	5417.0 (3.3)	76As (165.0)	5447.0 (7.0)	185Os (6588.0)
5387.1 (6.2)	153Sm (127.3)	5417.2 (0.2)	196Pt (356.1)	5447.3 (<0.1)	96Mo (778.3)
5387.2 (2.3)	198Au (214.8)	5418.8 (<0.1)	96Mo (778.3)	5448.5 (0.1)	152Eu (89.8)
5388.0 (<0.1)	148Sm (550.0)	5418.8 (1.1)	198Au (214.8)	5449.0 (0.2)	148Sm (550.0)
5388.3	169Yb	5419.0 (<0.1)	148Sm (550.0)	5449.9 (9.9)	163Dy (351.1)
5388.4 (0.3)	200Hg (367.9)	5420.0 (4.3)	59Fe (287.0)	5450.4 (0.3)	162Dy (185.0)
5388.6 (<0.1)	152Eu (89.8)	5420.0 (4.8)	64Cu (7916.0)	5450.5 (<0.1)	134Cs (116.4)
5389.0	135Ba	5420.0 (0.1)	70Ga (508.4)	5451.3 (1.1)	196Pt (356.1)
5389.0	194Ir (371.7)	5420.0 (0.6)	75Se (286.6)	5451.7 (<0.1)	88Sr (1836.1)
5389.2 (0.3)	68Zn (1077.4)	5420.1 (69.4)	77Ge (3895.2)	5451.9 (14.0)	71Ge (499.8)
5389.5 (<0.1)	188Re (63.6)	5420.2 (0.2)	162Dy (185.0)	5452.0 (0.7)	76As (165.0)
5389.6 (0.2)	98Mo (778.3)	5420.6 (3.5)	75Ge (574.7)	5452.0 (6.3)	204Tl (139.9)
5390.0 (0.5)	72Ga (145.1)	5420.6 (5.8)	197Pt (5846.3)	5453.0 (0.4)	170Tm (204.5)
5391.1 (1.8)	55Fe (9297.8)	5420.9 (<0.1)	152Eu (89.8)	5453.0 (0.1)	177Lu (150.4)
5391.5 (0.3)	104Rh (180.9)	5421.0 (0.1)	176Lu (71.5)	5453.3 (3.6)	153Sm (127.3)
5393.2 (2.9)	196Pt (356.1)	5421.3 (3.8)	55Cr (6246.4)	5453.6 (<0.1)	152Eu (89.8)
5393.8 (0.4)	80Br (37.1)	5421.8	179Hf	5454.1 (0.3)	68Zn (1077.4)
5395.7 (0.7)	177Lu (150.4)	5422.2 (0.1)	177Lu (150.4)	5456.0 (0.9)	198Au (214.8)
5395.8 (0.1)	96Mo (778.3)	5422.3 (0.6)	80Br (37.1)	5456.5 (0.6)	124Te (602.4)
5395.9 (1.5)	73Ge (326.0)	5422.9 (0.8)	104Rh (180.9)	5456.8 (0.4)	104Rh (180.9)
5396.6 (0.1)	162Dy (185.0)	5423.3 (1.3)	88Sr (1836.1)	5457.8 (3.3)	103Ru (174.0)
5396.6 (6.6)	182Ta (270.4)	5424.1 (<0.1)	96Mo (778.3)	5459.0 (<0.1)	166Ho (136.7)
5396.6 (2.5)	198Au (214.8)	5426.3 (1.3)	171Er (197.9)	5459.1 (0.2)	96Mo (778.3)
5397.3 (0.6)	75Se (286.6)	5426.4 (0.1)	152Eu (89.8)	5460.0 (0.8)	72Ga (145.1)
5398.0 (2.0)	170Tm (204.5)	5426.5 (0.9)	194Ir (371.7)	5460.0 (0.2)	148Sm (550.0)
5398.0 (0.5)	194Ir (371.7)	5426.8 (<0.1)	124Te (602.4)	5460.2 (<0.1)	177Lu (150.4)
5398.6 (4.4)	101Mo (180.7)	5426.9 (<0.1)	98Mo (787.4)	5461.5 (1.3)	75Se (286.6)
5398.8 (1.2)	184W (111.2)	5427.3 (0.3)	162Dy (185.0)	5461.7 (0.2)	152Eu (89.8)
5399.0 (0.5)	70Ga (508.4)	5428.0 (2.0)	170Tm (204.5)	5462.2 (0.2)	80Br (37.1)
5399.0 (0.6)	76As (165.0)	5428.2 (1.3)	166Ho (136.7)	5462.4 (0.8)	160Tb (75.1)
5399.0 (<0.1)	150Sm (334.0)	5428.6 (0.2)	96Mo (778.3)	5462.7 (5.0)	153Sm (127.3)
5399.2 (0.2)	104Rh (180.9)	5428.8 (0.8)	75Se (286.6)	5462.9 (2.5)	198Au (214.8)
5400.4	124Sb	5429.2 (0.5)	176Lu (71.5)	5463.3 (1.0)	104Rh (180.9)
5401.2 (<0.1)	188Re (63.6)	5430.0 (0.3)	148Sm (550.0)	5464.0 (0.2)	70Ga (508.4)
5401.8 (0.8)	80Br (37.1)	5430.9 (0.2)	156Gd (89.0)	5464.4 (0.3)	68Zn (1077.4)
5402.5 (<0.1)	152Eu (89.8)	5431.5 (0.4)	98Mo (787.4)	5464.5 (<0.1)	96Mo (778.3)
5402.7 (4.1)	182Ta (270.4)	5432.2 (<0.1)	188Re (63.6)	5464.7 (0.2)	56Mn (26.6)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E_γ keV ($\% \gamma$)	Nucleus (Strongest γ)	E_γ keV ($\% \gamma$)	Nucleus (Strongest γ)
5465.6 (1.3)	177Lu (150.4)	5502.0 (0.7)	1900s (186.7)	5534.2 (0.6)	80Br (37.1)
5466.5 (2.6)	187W (5261.8)	5502.1 (1.0)	77Se (238.9)	5534.3 (11.1)	204Tl (139.9)
5467.4 (6.7)	194Ir (371.7)	5502.1 (0.6)	176Lu (71.5)	5537.3 (0.8)	176Lu (71.5)
5468.0 (1.4)	76As (165.0)	5504.0 (0.5)	66Cu (185.9)	5537.7 (<0.1)	152Eu (89.8)
5468.2 (<0.1)	96Mo (778.3)	5504.1 (0.3)	158Gd (181.9)	5537.9 (0.2)	188Os (155.0)
5468.3	169Yb	5504.9 (0.6)	163Dy (351.1)	5538.8 (0.3)	98Mo (787.4)
5468.6 (0.2)	162Dy (185.0)	5505.3 (<0.1)	134Cs (116.4)	5539.0 (1.7)	70Ga (508.4)
5468.7 (2.6)	146Nd (7110.8)	5505.9 (0.2)	153Sm (127.3)	5539.0 (<0.1)	124Te (602.4)
5469.0 (0.5)	72Ga (145.1)	5506.5 (<0.1)	166Ho (136.7)	5539.7	172Yb
5469.7	81Se	5507.5 (3.6)	55Fe (9297.8)	5539.9 (1.9)	198Au (214.8)
5471.2 (<0.1)	166Ho (136.7)	5507.6 (0.6)	104Rh (180.9)	5541.0 (1.8)	72Ga (145.1)
5472.5 (0.6)	104Rh (180.9)	5507.8 (<0.1)	162Dy (185.0)	5541.0 (0.6)	76As (165.0)
5472.7 (0.5)	80Br (37.1)	5508.0 (8.0)	185Os (6588.0)	5542.0 (5.2)	1930s (5276.0)
5473.4 (7.0)	202Hg (439.5)	5508.6 (<0.1)	152Eu (89.8)	5542.6 (1.7)	158Gd (181.9)
5473.7 (0.1)	166Ho (136.7)	5509.0 (0.9)	76As (165.0)	5543.0 (0.9)	56Mn (26.6)
5474.0 (88.5)	69Zn (1008.0)	5509.0 (0.4)	188Re (63.6)	5544.0 (<0.1)	114In (311.7)
5474.4 (2.3)	198Au (214.8)	5509.5 (0.7)	48Ti (983.7)	5544.1 (0.7)	236U (642.2)
5474.7 (0.5)	68Zn (1077.4)	5509.5 (2.6)	80Br (37.1)	5544.4 (0.9)	96Mo (778.3)
5474.8 (0.1)	96Mo (778.3)	5509.7 (4.1)	60Co (229.8)	5544.7 (0.4)	162Dy (185.0)
5475.4 (0.9)	194Ir (371.7)	5510.0 (<0.1)	148Sm (550.0)	5544.9 (0.1)	68Zn (1077.4)
5476.4 (0.1)	98Mo (787.4)	5511.0 (1.0)	70Ga (508.4)	5545.9 (1.6)	188Re (63.6)
5476.9 (100.0)	242Pu (5476.9)	5511.5 (0.2)	153Sm (127.3)	5546.6 (1.1)	104Rh (180.9)
5477.0 (4.4)	159Gd (5942.0)	5511.9	169Yb	5546.7 (0.7)	196Pt (356.1)
5478.2 (<0.1)	1900s (186.7)	5513.3 (<0.1)	150Sm (334.0)	5546.8 (0.2)	80Br (37.1)
5478.7 (0.3)	114In (311.7)	5514.6 (2.0)	63Ni (6838.2)	5547.1 (1.8)	153Sm (127.3)
5480.2 (0.9)	142Pr (176.9)	5515.0 (61.0)	45Ca (174.3)	5549.1 (0.1)	152Eu (89.8)
5481.0 (4.3)	1930s (5276.0)	5515.5 (41.3)	52V (125.1)	5549.5 (0.2)	166Ho (136.7)
5481.7 (0.5)	116In (273.0)	5515.7 (0.2)	68Zn (1077.4)	5550.0	124Sb
5481.7 (<0.1)	177Lu (150.4)	5515.7 (18.0)	182Ta (270.4)	5550.0 (<0.1)	166Ho (136.7)
5482.7 (<0.1)	152Eu (89.8)	5516.7 (<0.1)	166Ho (136.7)	5550.4 (0.3)	156Gd (89.0)
5483.1 (0.2)	171Er (197.9)	5517.0 (0.2)	72Ga (145.1)	5551.4 (3.0)	52V (125.1)
5483.3 (0.2)	68Zn (1077.4)	5517.1 (<0.1)	96Mo (778.3)	5551.7 (<0.1)	98Mo (787.4)
5485.5 (0.3)	56Mn (26.6)	5517.2	169Yb	5554.0 (4.7)	50Ti (1555.0)
5485.7 (0.1)	96Mo (778.3)	5517.7 (<0.1)	152Eu (89.8)	5554.3 (0.3)	162Dy (185.0)
5486.1 (<0.1)	1900s (186.7)	5518.0 (1.0)	160Tb (75.1)	5554.8 (1.8)	188Re (63.6)
5486.1 (0.3)	158Gd (181.9)	5518.0 (1.3)	170Tm (204.5)	5555.9 (0.1)	166Ho (136.7)
5487.0 (1.7)	72Ga (145.1)	5518.0 (2.5)	66Cu (185.9)	5555.9 (0.3)	176Lu (71.5)
5487.0 (0.2)	98Mo (787.4)	5518.1 (34.2)	73Ge (326.0)	5556.4 (5.5)	165Dy (108.2)
5487.6 (5.7)	238Np (5352.0)	5518.1 (0.2)	188Re (63.6)	5556.6 (0.2)	68Zn (1077.4)
5488.0 (5.0)	194Ir (371.7)	5518.9 (2.6)	194Ir (371.7)	5557.4 (8.0)	182Ta (270.4)
5489.0 (4.1)	70Ga (508.4)	5520.2 (3.7)	65Zn (7863.3)	5558.4	122Sb
5490.0 (0.5)	66Cu (185.9)	5520.6 (<0.1)	98Mo (787.4)	5559.6 (3.9)	65Zn (7863.3)
5490.7 (<0.1)	150Sm (334.0)	5521.0 (<0.1)	74Ge (595.7)	5559.8 (<0.1)	138Ba (1435.6)
5491.4 (2.2)	51Cr (749.0)	5521.0 (2.5)	104Rh (180.9)	5560.4 (<0.1)	152Eu (89.8)
5492.3 (0.9)	146Nd (7110.8)	5522.4 (2.0)	204Tl (139.9)	5561.0 (0.4)	74Ge (595.7)
5493.0 (<0.1)	152Eu (89.8)	5522.5 (1.2)	160Tb (75.1)	5562.0 (2.9)	52V (125.1)
5493.2 (<0.1)	134Cs (116.4)	5522.9 (0.3)	68Zn (1077.4)	5562.4	124Sb
5493.3 (<0.1)	98Mo (787.4)	5523.5 (0.8)	166Ho (136.7)	5563.0 (<0.1)	114In (311.7)
5493.5 (0.2)	56Mn (26.6)	5524.4 (8.9)	198Au (214.8)	5563.6	122Sb
5493.7 (4.7)	198Au (214.8)	5524.7 (<0.1)	96Mo (778.3)	5563.9 (0.2)	56Mn (26.6)
5493.9 (16.5)	58Fe (810.5)	5525.8 (0.3)	116In (273.0)	5564.0 (10.0)	1850s (6588.0)
5494.0 (0.6)	76As (165.0)	5526.8 (1.2)	188Os (155.0)	5565.0	118Sn
5494.0 (0.2)	124Te (602.4)	5527.0 (0.1)	70Ga (508.4)	5565.5 (2.6)	194Ir (371.7)
5494.1 (0.3)	236U (642.2)	5527.0 (0.8)	104Rh (180.9)	5565.6 (<0.1)	134Cs (116.4)
5494.5 (2.5)	51Cr (749.0)	5527.0 (0.1)	177Lu (150.4)	5566.0 (0.2)	74Ge (595.7)
5494.6 (0.1)	80Br (37.1)	5527.1 (<0.1)	98Mo (787.4)	5566.1 (0.2)	96Mo (778.3)
5495.5 (1.6)	103Ru (174.0)	5527.4 (37.3)	56Mn (26.6)	5566.2 (<0.1)	152Eu (89.8)
5497.0 (10.0)	182Ta (270.4)	5527.9 (<0.1)	152Eu (89.8)	5566.4 (<0.1)	200Hg (367.9)
5497.9 (<0.1)	98Mo (787.4)	5528.0 (0.4)	76As (165.0)	5566.7 (1.8)	176Lu (71.5)
5498.0 (0.4)	72Ga (145.1)	5528.1 (3.1)	105Ru (143.2)	5567.2 (0.7)	80Br (37.1)
5498.1 (0.7)	78Se (513.8)	5528.4 (<0.1)	188Re (63.6)	5567.6 (0.1)	158Gd (181.9)
5499.0 (0.7)	57Fe (7631.6)	5529.0 (0.3)	162Dy (185.0)	5568.5 (<0.1)	1900s (186.7)
5499.1 (0.7)	161In (273.0)	5529.0 (2.1)	1900s (186.7)	5569.0 (0.2)	76As (165.0)
5499.1 (0.3)	152Eu (89.8)	5531.1 (0.8)	96Mo (778.3)	5569.0 (<0.1)	150Sm (334.0)
5499.5	124Sb	5532.1 (<0.1)	116In (273.0)	5569.5 (1.9)	75Se (286.6)
5499.6 (0.9)	188Re (63.6)	5532.7 (0.3)	114In (311.7)	5570.5 (2.2)	177Lu (150.4)
5499.6 (0.5)	196Pt (356.1)	5533.3 (0.6)	150Sm (334.0)	5570.7 (0.4)	116In (273.0)
5501.0 (0.3)	148Sm (550.0)	5533.3 (1.0)	163Dy (351.1)	5570.8	124Sb
5501.2 (<0.1)	166Ho (136.7)	5533.4 (0.5)	98Mo (787.4)	5570.9 (1.5)	103Ru (174.0)
5501.4 (<0.1)	177Lu (150.4)	5533.7 (5.2)	184W (111.2)	5571.4 (<0.1)	166Ho (136.7)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV (χ_{17})	Nucleus (Strongest γ)	E_{γ} keV (χ_{17})	Nucleus (Strongest γ)	E_{γ} keV (χ_{17})	Nucleus (Strongest γ)
5571.5 (0.5)	188Re (63.6)	5601.3 (0.2)	56Mn (26.6)	5637.1 (4.9)	105Ru (143.2)
5572.0 (5.5)	188Os (155.0)	5601.8 (1.0)	138Ba (818.6)	5637.5 (0.2)	56Mn (26.6)
5572.1 (1.3)	80Br (37.1)	5601.8 (1.9)	177Lu (150.4)	5637.7 (0.1)	166Ho (136.7)
5572.5 (<0.1)	134Cs (116.4)	5601.9 (1.5)	96Mo (778.3)	5638.0 (<0.1)	239Pu (4821.8)
5574.2 (0.3)	78Se (613.8)	5602.3 (7.1)	80Co (229.8)	5638.4 (<0.1)	190Os (186.7)
5574.8 (0.1)	166Ho (136.7)	5602.4 (1.7)	184W (111.2)	5638.5 (6.7)	60Co (229.8)
5575.0 (0.2)	72Ga (145.1)	5604.4 (0.6)	104Rh (180.9)	5639.0 (0.2)	49Ti (1381.5)
5575.0 (100.0)	240Pu (5575.0)	5604.4 (0.4)	166Ho (136.7)	5639.0 (0.2)	74Ge (595.7)
5575.3 (6.3)	146Nd (7110.8)	5604.4 (24.0)	204Tl (139.9)	5639.8 (1.4)	103Ru (174.0)
5575.8 (10.9)	171Yb (6614.7)	5604.5	124Sb	5640.7 (0.4)	188Re (63.6)
5576.5	122Sb	5606.7 (6.8)	165Dy (108.2)	5641.1 (1.3)	142Pr (176.9)
5576.7 (0.4)	196Pt (356.1)	5607.7 (0.3)	177Lu (150.4)	5641.7 (2.4)	188Os (155.0)
5577.2 (9.3)	197Pt (5846.3)	5608.0 (<0.1)	166Ho (136.7)	5642.7 (27.4)	204Tl (139.9)
5577.3 (0.2)	88Sr (1836.1)	5608.1 (1.9)	160Tb (75.1)	5643.0 (1.2)	72Ga (145.1)
5577.6 (2.3)	52V (125.1)	5608.3 (<0.1)	166Ho (136.7)	5643.4 (0.6)	198Au (214.8)
5577.6 (1.6)	194Ir (371.7)	5609.8 (1.2)	158Gd (181.9)	5643.5 (0.3)	177Lu (150.4)
5578.1 (0.3)	114In (311.7)	5610.0 (0.2)	88Zn (1077.4)	5643.7 (4.1)	194Ir (371.7)
5578.4 (5.0)	87Sr (8039.8)	5610.5 (0.8)	162Dy (185.0)	5643.9	172Yb
5578.6 (0.3)	68Zn (1077.4)	5611.4	124Sb	5644.0 (0.3)	76As (165.0)
5579.0 (0.9)	70Ga (508.4)	5611.4 (3.1)	196Pt (356.1)	5644.6 (<0.1)	166Ho (136.7)
5579.4 (0.6)	116In (273.0)	5612.5 (<0.1)	152Eu (89.8)	5645.0 (2.8)	90Y (776.7)
5580.2 (0.2)	166Ho (136.7)	5613.0	118Sn	5645.7 (11.6)	146Nd (7110.8)
5580.9 (0.5)	188Re (63.6)	5613.6 (5.7)	60Co (229.8)	5646.6 (8.3)	239Pu (4821.8)
5580.9 (<0.1)	190Os (186.7)	5613.8 (0.3)	96Mo (778.3)	5646.9	122Sb
5581.0 (1.8)	76As (165.0)	5614.5 (<0.1)	166Ho (136.7)	5646.9 (<0.1)	152Eu (89.8)
5581.7 (<0.1)	152Eu (89.8)	5614.7 (1.8)	188Re (63.6)	5647.0 (16.2)	69Zn (1008.0)
5582.1 (2.6)	158Gd (181.9)	5614.8 (0.6)	80Br (37.1)	5649.1 (0.2)	124Te (602.4)
5583.3 (67.8)	193Os (5276.0)	5615.0 (0.7)	76As (165.0)	5650.0 (2.7)	72Ga (145.1)
5583.7 (4.0)	48Ti (983.7)	5615.5 (0.4)	78Se (613.8)	5650.1 (0.4)	96Mo (778.3)
5583.8 (10.0)	182Ta (270.4)	5616.1 (<0.1)	150Sm (334.0)	5650.5 (0.4)	166Ho (136.7)
5584.1 (0.3)	236U (642.2)	5616.5 (1.4)	104Rh (180.9)	5650.8 (15.1)	73Ge (326.0)
5584.2 (<0.1)	188Re (63.6)	5616.7 (<0.1)	190Os (186.7)	5652.2 (0.5)	80Br (37.1)
5584.4 (0.2)	166Ho (136.7)	5617.0 (1.1)	64Cu (7916.0)	5652.8 (<0.1)	98Mo (787.4)
5586.0 (2.1)	66Cu (185.9)	5617.0 (0.4)	148Sm (550.0)	5654.2 (0.8)	158Gd (181.9)
5586.1 (0.1)	55Cr (6246.4)	5617.1 (1.5)	191Os (5147.1)	5654.6 (<0.1)	150Sm (334.0)
5586.3 (0.9)	56Mn (26.6)	5617.3 (<0.1)	116In (273.0)	5654.6 (0.2)	176Lu (71.5)
5586.4	124Sb	5617.9 (0.2)	177Lu (150.4)	5656.0 (0.2)	104Rh (180.9)
5587.2 (<0.1)	152Eu (89.8)	5618.0 (<0.1)	152Eu (89.8)	5656.7 (<0.1)	152Eu (89.8)
5587.5 (3.5)	146Nd (7110.8)	5618.2 (<0.1)	124Te (602.4)	5656.9 (<0.1)	114In (311.7)
5587.6 (<0.1)	166Ho (136.7)	5618.6 (<0.1)	98Mo (787.4)	5658.5 (0.5)	200Hg (367.9)
5587.9 (0.3)	104Rh (180.9)	5619.3 (27.6)	53Cr (7939.6)	5659.0 (1.7)	185W (4573.6)
5588.4 (23.3)	105Ru (143.2)	5619.4	122Sb	5659.0 (5.0)	185Os (6588.0)
5589.0 (0.6)	80Br (37.1)	5619.5 (0.7)	87Sr (8039.8)	5659.7 (32.9)	60Co (229.8)
5589.6 (0.3)	156Gd (89.0)	5620.0 (1.2)	66Cu (185.9)	5660.3 (0.2)	80Br (37.1)
5591.0 (61.5)	151Sm (5288.0)	5620.6 (3.8)	198Au (214.8)	5660.5 (<0.1)	96Mo (778.3)
5591.5 (1.2)	153Sm (127.3)	5621.1 (6.3)	75Ge (574.7)	5661.0 (0.4)	196Pt (356.1)
5592.1 (0.1)	177Lu (150.4)	5621.9 (0.2)	114In (311.7)	5661.1 (<0.1)	152Eu (89.8)
5592.1 (<0.1)	98Mo (787.4)	5622.5 (<0.1)	152Eu (89.8)	5661.1 (1.9)	158Gd (181.9)
5592.6 (1.3)	87Sr (8039.8)	5622.7 (0.8)	188Os (155.0)	5661.2 (<0.1)	98Mo (787.4)
5592.7 (1.5)	158Gd (181.9)	5624.0 (19.5)	171Yb (6614.7)	5661.5 (0.9)	171Yb (6614.7)
5593.6 (0.2)	152Eu (89.8)	5625.3 (0.1)	56Mn (26.6)	5662.3 (1.3)	68Zn (1077.4)
5593.7 (<0.1)	190Os (186.7)	5625.3 (<0.1)	134Cs (116.4)	5662.5 (<0.1)	116In (273.0)
5593.8 (0.3)	88Sr (1836.1)	5626.0 (0.1)	72Ga (145.1)	5662.5 (0.4)	156Gd (89.0)
5594.1 (0.1)	55Cr (6246.4)	5626.9 (2.6)	202Hg (439.5)	5662.9	124Sb
5594.6 (4.6)	198Au (214.8)	5627.0 (2.2)	70Ga (508.4)	5663.0 (1.9)	72Ga (145.1)
5594.9 (<0.1)	92Zr (934.5)	5627.0 (19.5)	171Yb (6614.7)	5664.0 (2.2)	76As (165.0)
5595.0 (<0.1)	74Ge (595.7)	5628.4	122Sb	5665.0 (0.2)	98Mo (787.4)
5595.1 (<0.1)	114In (311.7)	5628.4 (0.8)	80Br (37.1)	5665.5 (2.5)	182Ta (270.4)
5595.6	169Yb	5629.0 (0.7)	76As (165.0)	5666.3 (0.5)	188Re (63.6)
5596.0 (0.2)	62Ni (1172.8)	5629.9 (0.6)	162Dy (185.0)	5666.4 (43.3)	142Pr (176.9)
5596.3 (<0.1)	116In (273.0)	5630.5 (0.8)	176Lu (71.5)	5668.1 (<0.1)	114In (311.7)
5596.3 (0.2)	98Mo (787.4)	5630.9 (4.6)	194Ir (371.7)	5668.1 (0.8)	124Te (602.4)
5597.0 (0.4)	177Lu (150.4)	5632.0 (<0.1)	152Eu (89.8)	5668.7 (0.5)	158Gd (181.9)
5598.3	124Sb	5633.6 (10.0)	240Pu (5575.0)	5669.0 (0.8)	70Ga (508.4)
5599.6 (1.1)	190Os (186.7)	5634.0 (0.6)	167Er (207.8)	5669.0 (0.2)	74Ge (595.7)
5600.0 (<0.1)	148Sm (550.0)	5634.4 (0.2)	104Rh (180.9)	5669.1 (2.9)	103Ru (174.0)
5600.2 (1.7)	58Fe (810.5)	5635.0 (<0.1)	124Te (602.4)	5670.0 (0.4)	167Er (207.8)
5600.2 (15.8)	77Se (238.9)	5635.8 (1.0)	184W (111.2)	5670.1 (<0.1)	152Eu (89.8)
5600.6	122Sb	5637.0 (0.8)	70Ga (508.4)	5670.5 (0.2)	68Zn (1077.4)
5601.0 (11.2)	72Ga (145.1)	5637.0 (<0.1)	134Cs (116.4)	5671.3 (<0.1)	96Mo (778.3)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)	E_{γ} keV ($\%I_{\gamma}$)	Nucleus (Strongest γ)
5673.2 (0.4)	136Ba (818.6)	5697.7 (1.0)	184W (111.2)	5737.0 (9.6)	170Tm (204.5)
5673.3 (9.0)	240Pu (5575.0)	5698.7 (1.2)	142Pr (176.9)	5737.6 (0.8)	96Mo (778.3)
5673.5 (0.8)	80Br (37.1)	5699.6 (0.1)	166Ho (136.7)	5737.6	122Sb
5673.6 (1.7)	87Sr (8039.8)	5700.0 (3.0)	47Ti (159.0)	5738.4 (1.3)	87Sr (8039.8)
5674.1 (0.8)	104Rh (180.9)	5701.0 (0.5)	148Sm (550.0)	5738.5 (0.3)	196Pt (356.1)
5674.3 (2.0)	71Ge (498.8)	5701.3 (3.3)	188Os (155.0)	5740.8 (16.5)	73Ge (326.0)
5674.6 (8.1)	191Os (5147.1)	5702.1 (4.0)	182Ta (270.4)	5740.9 (65.9)	153Sm (127.3)
5676.0 (3.6)	76As (165.0)	5702.1 (2.4)	188Re (63.6)	5741.0 (<0.1)	150Sm (334.0)
5676.0 (0.2)	114In (311.7)	5702.9 (1.7)	60Co (229.8)	5742.0 (<0.1)	114In (311.7)
5676.4 (0.5)	194Ir (371.7)	5703.1 (<0.1)	116In (273.0)	5742.2 (11.0)	60Co (229.8)
5676.7 (2.0)	158Gd (181.9)	5703.4 (0.5)	162Dy (185.0)	5742.3 (<0.1)	152Eu (89.8)
5676.7 (0.5)	196Pt (356.1)	5704.0 (2.5)	77Se (238.9)	5743.0 (0.1)	104Rh (180.9)
5676.9 (0.1)	162Dy (185.0)	5705.5 (<0.1)	152Eu (89.8)	5743.0 (0.5)	80Br (37.1)
5677.3 (1.5)	103Ru (174.0)	5705.7 (<0.1)	96Mo (778.3)	5744.0 (3.3)	46Sc (227.8)
5677.3	122Sb	5706.6 (2.8)	54Cr (8884.1)	5744.0 (<0.1)	148Sm (550.0)
5677.3 (0.6)	198Au (214.8)	5706.6	172Yb	5744.0 (10.0)	185Os (6588.0)
5677.5 (1.2)	164Dy (73.4)	5706.9 (0.2)	156Gd (89.0)	5744.2 (2.3)	75Ge (371.7)
5677.7	172Yb	5707.0 (0.2)	56Mn (26.6)	5744.8 (<0.1)	190Os (186.7)
5677.9 (1.1)	68Zn (1077.4)	5708.3 (6.8)	171Yb (6614.7)	5745.0 (3.8)	50Ti (1555.0)
5678.6 (0.2)	56Mn (26.6)	5708.4 (0.7)	104Rh (180.9)	5745.4 (3.5)	55Fe (9297.8)
5679.6 (0.7)	80Br (37.1)	5709.6	124Sb	5746.8 (0.2)	177Lu (150.4)
5679.9 (<0.1)	152Eu (89.8)	5710.7 (12.8)	198Au (214.8)	5747.0 (3.6)	58Fe (810.5)
5680.0 (<0.1)	166Ho (136.7)	5711.1	175Hf	5747.0 (1.8)	70Ga (508.4)
5680.0 (1.6)	98Mo (787.4)	5711.8 (0.6)	160Tb (75.1)	5747.8 (0.3)	114In (311.7)
5680.4 (3.9)	55Cr (6246.4)	5712.3 (2.9)	96Mo (778.3)	5747.8 (2.5)	197Pt (5846.3)
5680.6	179Hf	5713.3 (0.1)	116In (273.0)	5748.0 (<0.1)	156Gd (89.0)
5680.9 (2.0)	190Os (186.7)	5713.5 (0.2)	104Rh (180.9)	5749.0 (0.3)	194Ir (371.7)
5681.2 (10.9)	168Er (6228.8)	5714.3 (0.4)	158Gd (181.9)	5749.7 (1.2)	190Os (186.7)
5682.7 (<0.1)	96Mo (778.3)	5714.5 (0.7)	56Mn (26.6)	5749.8 (0.3)	204Tl (139.9)
5682.8 (0.3)	78Se (613.8)	5714.5 (0.4)	124Te (602.4)	5750.7 (9.8)	105Ru (143.2)
5683.0 (0.6)	70Ga (508.4)	5715.5 (1.0)	188Re (63.6)	5750.9 (<0.1)	134Cs (116.4)
5683.0 (1.2)	167Er (207.8)	5715.9 (0.4)	114In (311.7)	5751.0 (6.0)	87Sr (8039.8)
5684.0 (1.6)	103Ru (174.0)	5715.9 (7.7)	197Pt (5846.3)	5751.0 (1.0)	132Xe (667.5)
5684.0 (0.7)	170Tm (204.5)	5716.0 (0.3)	70Ga (508.4)	5751.9 (40.1)	52V (125.1)
5684.2 (0.7)	166Ho (136.7)	5716.2 (0.4)	177Lu (150.4)	5752.0 (<0.1)	74Ge (595.7)
5684.6 (<0.1)	152Eu (89.8)	5720.7 (1.3)	190Os (186.7)	5752.7 (1.1)	146Nd (7110.8)
5684.6 (43.1)	191Os (5147.1)	5720.8 (0.1)	96Mo (778.3)	5752.8 (0.3)	161In (273.0)
5685.0 (0.2)	132Xe (667.5)	5721.0 (3.8)	72Ga (145.1)	5754.0 (<0.1)	152Eu (89.8)
5685.1	122Sb	5721.0 (1.4)	66Cu (185.9)	5754.1 (36.9)	185W (4573.6)
5685.4 (1.6)	88Sr (1836.1)	5721.1 (1.7)	196Pt (356.1)	5754.2 (0.8)	160Tb (75.1)
5685.6 (1.1)	68Zn (1077.4)	5721.7 (0.4)	158Gd (181.9)	5755.0 (0.6)	75Se (286.6)
5686.5 (<0.1)	98Mo (787.4)	5721.8 (3.8)	58Fe (810.5)	5755.3 (0.2)	176Lu (71.5)
5687.5 (1.2)	145Nd (852.8)	5722.9 (0.2)	68Zn (1077.4)	5756.1 (0.3)	162Dy (185.0)
5687.7 (<0.1)	114In (311.7)	5722.9 (1.4)	164Dy (73.4)	5756.6 (<0.1)	68Zn (1077.4)
5687.9 (0.2)	159Gd (181.9)	5723.0 (1.0)	70Ga (508.4)	5757.6 (0.5)	80Br (37.1)
5688.0 (2.4)	76As (165.0)	5723.8 (0.1)	152Eu (89.8)	5757.7 (0.4)	104Rh (180.9)
5688.4 (<0.1)	116In (273.0)	5724.2 (0.2)	177Lu (150.4)	5757.8 (0.7)	194Ir (371.7)
5688.8 (2.1)	188Re (63.6)	5724.3 (6.1)	198Au (214.8)	5758.0 (1.8)	76As (165.0)
5689.4 (<0.1)	96Mo (778.3)	5725.8 (0.1)	150Sm (334.0)	5758.9 (0.2)	136Ba (818.6)
5690.0 (<0.1)	74Ge (595.7)	5725.8 (<0.1)	98Mo (787.4)	5759.3 (1.1)	196Pt (356.1)
5690.8	122Sb	5726.1	179Hf	5760.7 (5.1)	86Rb (557.0)
5691.0 (3.8)	72Ga (145.1)	5727.0 (<0.1)	96Mo (778.3)	5760.9 (9.7)	56Mn (26.6)
5691.6 (3.8)	58Fe (810.5)	5728.3 (0.4)	114In (311.7)	5760.9 (<0.1)	96Mo (778.3)
5691.7	172Yb	5729.0 (<0.1)	134Cs (116.4)	5760.9 (0.8)	166Ho (136.7)
5692.8 (0.1)	196Pt (356.1)	5729.1 (12.1)	194Ir (371.7)	5761.6 (<0.1)	152Eu (89.8)
5693.6 (<0.1)	152Eu (89.8)	5729.2	94Nb	5762.0 (0.4)	68Zn (1077.4)
5693.8 (16.4)	91Zr (2186.5)	5729.8 (0.4)	80Br (37.1)	5762.0	177Hf
5693.9 (0.2)	96Mo (778.3)	5730.0 (1.5)	170Tm (204.5)	5762.1 (<0.1)	150Sm (334.0)
5693.9 (0.3)	176Lu (71.5)	5730.0 (3.4)	185W (4573.6)	5762.8	122Sb
5694.0 (0.3)	80Br (37.1)	5730.1 (1.3)	177Lu (150.4)	5766.0 (0.2)	177Lu (150.4)
5694.9 (0.1)	166Ho (136.7)	5730.4 (41.6)	138Ba (1435.6)	5766.2 (0.3)	75Se (286.6)
5695.0 (<0.1)	68Zn (1077.4)	5731.3 (0.3)	116In (273.0)	5766.4	94Nb
5695.1 (0.5)	104Rh (180.9)	5731.6 (<0.1)	152Eu (89.8)	5766.5 (1.0)	198Au (214.8)
5695.7 (17.2)	61Ni (7819.6)	5731.8 (<0.1)	200Hg (367.9)	5766.6 (0.3)	164Rh (180.9)
5696.0 (11.1)	61Ni (7819.6)	5733.6 (1.0)	164Dy (73.4)	5768.1 (<0.1)	152Eu (89.8)
5696.3 (<0.1)	150Sm (334.0)	5733.9 (<0.1)	56Mn (26.6)	5789.3 (0.7)	116In (273.0)
5697.0 (1.5)	76As (165.0)	5735.7 (0.3)	162Dy (185.0)	5769.9 (1.1)	177Lu (150.4)
5697.0 (<0.1)	98Mo (787.4)	5736.6 (<0.1)	152Eu (89.8)	5769.9 (12.0)	182Ta (270.4)
5697.1 (0.3)	114In (311.7)	5736.7 (0.3)	80Br (37.1)	5771.0 (3.7)	64Cu (7916.0)
5697.2 (0.4)	156Gd (89.0)	5737.0 (1.6)	48Ti (983.7)	5771.0 (<0.1)	170Tm (204.5)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_γ keV ($\times 10^3$)	Nucleus (Strongest γ)	E_γ keV ($\times 10^3$)	Nucleus (Strongest γ)	E_γ keV ($\times 10^3$)	Nucleus (Strongest γ)
5771.3	94Nb	5803.1	154Eu (68.2)	5838.9	80Br (37.1)
5771.5 (3.5)	142Pr (176.9)	5803.4 (0.1)	104Rh (180.9)	5839.3 (<0.1)	154Eu (68.2)
5771.8 (0.5)	166Ho (136.7)	5804.0 (0.3)	46Sc (227.8)	5839.7 (1.7)	198Au (214.8)
5773.0	180Hf	5804.3 (<0.1)	152Eu (89.8)	5840.8 (0.8)	86Rb (557.0)
5773.0 (14.6)	168Er (6228.8)	5806.0 (0.7)	76As (165.0)	5841.7 (<0.1)	152Eu (89.8)
5774.2 (0.8)	1880s (155.0)	5806.0 (3.3)	155Sm (4988.0)	5841.7 (2.1)	160Tb (75.1)
5774.3 (0.3)	156Gd (89.0)	5807.0 (2.8)	70Ga (508.4)	5841.8 (<0.1)	98Mo (787.4)
5774.7 (0.6)	78Se (613.8)	5807.0 (<0.1)	116In (273.0)	5841.9 (0.2)	177Lu (150.4)
5775.6	122Sb	5807.8 (0.4)	188Re (63.6)	5842.0	180Hf
5776.2 (0.3)	116In (273.0)	5808.0 (0.5)	170Tm (204.5)	5842.1 (<0.1)	96Mo (778.3)
5776.6 (10.7)	65Zn (7863.3)	5808.2	122Sb	5842.2	175Hf
5777.2 (5.0)	160Tb (75.1)	5808.2 (2.7)	198Au (214.8)	5842.6 (0.4)	162Dy (185.0)
5777.4 (3.0)	146Nd (7110.8)	5810.0	135Ba	5843.4 (15.5)	142Pr (176.9)
5777.5 (<0.1)	166Ho (136.7)	5811.9 (0.3)	116In (273.0)	5845.1 (<0.1)	154Eu (68.2)
5778.8 (<0.1)	98Mo (787.4)	5812.2 (1.7)	104Rh (180.9)	5845.4 (0.2)	158Gd (181.9)
5779.0 (1.4)	76As (165.0)	5812.4 (2.8)	166Ho (136.7)	5846.0 (0.2)	56Mn (26.6)
5780.0 (4.2)	72Ga (145.1)	5812.6 (3.0)	182Ta (270.4)	5846.3 (100.0)	197Pt (5846.3)
5780.1 (<0.1)	96Mo (778.3)	5812.9 (1.4)	78Se (613.8)	5848.3 (0.1)	114In (311.7)
5781.0 (1.5)	46Sc (227.8)	5812.9 (1.0)	194Ir (371.7)	5848.6 (4.5)	163Dy (351.1)
5781.0 (5.0)	185Os (6588.0)	5813.0 (2.6)	155Sm (4988.0)	5849.5 (1.1)	60Co (229.8)
5781.9 (1.1)	1900s (136.7)	5813.0 (0.2)	164Dy (73.4)	5850.0 (0.4)	88Sr (1836.1)
5782.7 (0.2)	80Br (37.1)	5814.3 (0.7)	114In (311.7)	5850.2 (<0.1)	152Eu (89.8)
5782.9 (<0.1)	162Dy (185.0)	5814.9 (0.2)	152Eu (89.8)	5850.2 (0.5)	1900s (186.7)
5783.5 (2.5)	154W (111.2)	5815.0 (0.1)	148Sm (550.0)	5850.9 (8.1)	73Ge (326.0)
5783.7 (0.9)	198Au (214.8)	5815.7 (<0.1)	92Zr (934.5)	5852.4 (0.3)	78Se (613.8)
5783.8 (1.6)	158Gd (181.9)	5816.0 (9.1)	59Ni (8999.3)	5853.0 (4.0)	66Cu (185.9)
5784.4 (0.1)	68Zn (1077.4)	5816.0 (0.6)	76As (165.0)	5853.1 (0.4)	158Gd (181.9)
5785.0 (0.2)	176Lu (71.5)	5816.0 (10.5)	79Se (6866.2)	5853.2 (0.1)	162Dy (185.0)
5785.8 (<0.1)	152Eu (89.8)	5816.2 (0.3)	158Gd (181.9)	5854.0 (29.0)	59Fe (287.0)
5786.0 (0.2)	74Ge (595.7)	5817.2 (<0.1)	98Mo (787.4)	5854.0 (0.8)	76As (165.0)
5786.0 (0.2)	177Lu (150.4)	5818.3 (1.3)	146Nd (7110.8)	5854.5 (<0.1)	96Mo (778.3)
5786.8 (<0.1)	104Rh (180.9)	5818.6 (0.5)	96Mo (778.3)	5855.5 (0.3)	176Lu (71.5)
5786.8 (4.7)	168Er (6228.8)	5819.1 (<0.1)	154Eu (68.2)	5856.2 (0.2)	68Zn (1077.4)
5787.0 (0.2)	70Ga (508.4)	5819.4 (14.8)	71Ge (499.8)	5856.8 (1.6)	164Dy (73.4)
5787.0 (1.9)	76As (165.0)	5819.9 (0.6)	1880s (155.0)	5857.0 (<0.1)	134Cs (116.4)
5787.1 (25.7)	65Ni (6034.0)	5821.4 (<0.1)	1900s (186.7)	5857.0 (19.3)	168Er (6228.8)
5787.3 (2.3)	105Ru (143.2)	5822.1 (8.4)	194Ir (371.7)	5857.9	122Sb
5787.4 (25.6)	146Nd (7110.8)	5822.4 (0.2)	162Dy (185.0)	5858.6 (2.4)	54Cr (8884.1)
5787.7	122Sb	5823.2 (0.2)	86Rb (557.0)	5858.6 (<0.1)	152Eu (89.8)
5787.9 (1.9)	202Hg (439.5)	5823.5 (0.5)	48Ti (983.7)	5859.0 (0.6)	70Ga (508.4)
5788.4 (6.2)	194Ir (371.7)	5823.9 (3.1)	114Cd (1660.3)	5859.0 (2.5)	170Tm (204.5)
5788.7 (0.9)	68Zn (1077.4)	5824.0 (1.1)	64Cu (7916.0)	5859.1 (0.9)	75Se (286.6)
5788.9 (0.4)	114In (311.7)	5824.1 (5.4)	61Ni (7819.6)	5860.0 (0.8)	160Tb (75.1)
5790.8 (1.9)	88Sr (1836.1)	5825.0 (1.7)	132Ta (270.4)	5860.7 (0.2)	153Sm (127.3)
5791.2 (<0.1)	134Cs (116.4)	5825.7 (5.2)	142Pr (176.9)	5862.2 (<0.1)	96Mo (778.3)
5791.4 (<0.1)	96Mo (778.3)	5825.7 (1.3)	176Lu (71.5)	5863.0 (100.0)	145Sm (5863.0)
5792.4	172Yb	5825.8	172Yb	5863.0 (<0.1)	150Sm (334.0)
5792.5 (20.0)	182Ta (270.4)	5826.2 (<0.1)	166Ho (136.7)	5864.0 (0.2)	68Zn (1077.4)
5793.0 (<0.1)	150Sm (334.0)	5826.4 (<0.1)	96Mo (778.3)	5864.4 (<0.1)	152Eu (89.8)
5793.0 (<0.1)	154Eu (69.2)	5826.6 (<0.1)	68Zn (1077.4)	5865.1 (9.7)	168Er (6228.8)
5793.5 (0.7)	54Cr (8884.1)	5826.6 (0.9)	103Ru (174.0)	5865.9 (<0.1)	154Eu (68.2)
5793.8 (0.6)	1880s (155.0)	5827.0 (0.2)	114In (311.7)	5866.0 (0.7)	64Cu (7916.0)
5794.1 (0.1)	124Te (602.4)	5827.0 (3.0)	1850s (6588.0)	5867.2 (3.1)	73Ge (326.0)
5794.5 (<0.1)	98Mo (787.4)	5828.6 (<0.1)	152Lu (89.8)	5868.2 (2.1)	153Sm (127.3)
5794.6 (0.1)	152Eu (89.8)	5829.0 (0.9)	70Ga (508.4)	5868.7 (1.5)	80Br (37.1)
5794.8 (<0.1)	56Mn (26.6)	5829.0 (0.1)	74Ge (595.7)	5868.8	124Sb
5794.8 (6.4)	77Se (238.9)	5829.3 (0.7)	196Pt (356.1)	5868.9 (4.5)	158Er (6228.8)
5795.7 (0.9)	196Pt (356.1)	5831.6 (4.0)	75Ge (574.7)	5869.0 (2.7)	76As (165.0)
5796.7 (22.9)	184W (111.2)	5832.4 (16.5)	153Sm (127.3)	5869.1 (<0.1)	152Eu (89.8)
5797.2 (0.9)	1900s (186.7)	5832.7	169Yb	5869.4 (0.2)	96Mo (778.3)
5797.3 (<0.1)	114In (311.7)	5833.1 (<0.1)	150Sm (334.0)	5870.3 (0.2)	114In (311.7)
5797.8 (2.5)	104Rh (180.9)	5833.4 (0.3)	80Br (37.1)	5870.6 (1.1)	166Ho (136.7)
5799.0 (<0.1)	200Hg (367.9)	5833.8 (0.1)	156Gd (89.0)	5870.7	122Sb
5799.1	175Hf	5834.0 (0.6)	76As (165.0)	5871.0 (0.5)	72Ga (145.1)
5800.4 (1.7)	86Rb (557.0)	5834.5 (<0.1)	152Eu (89.8)	5871.5 (0.5)	194Ir (371.7)
5800.7	122Sb	5834.6 (0.3)	68Zn (1077.4)	5871.6 (6.6)	188Re (63.6)
5801.3 (0.1)	124Te (602.4)	5834.8 (0.2)	116In (273.0)	5872.0 (0.2)	68Zn (1077.4)
5801.9 (0.5)	103Ru (174.0)	5836.5 (0.2)	104Rh (180.9)	5873.5 (0.5)	80Br (37.1)
5802.0 (0.3)	176Lu (71.5)	5837.0 (7.6)	63Ni (6838.2)	5873.8 (1.4)	1900s (186.7)
5802.7 (<0.1)	134Cs (116.4)	5837.4	122Sb	5874.3 (1.0)	71Ge (499.8)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_γ keV* (% γ)	Nucleus (Strongest γ)	E_γ keV (% γ)	Nucleus (Strongest γ)	E_γ keV (% γ)	Nucleus (Strongest γ)
5874.5 (1.1)	196Pt (356.1)	5908.1 (<0.1)	96Mo (778.3)	5942.5 (14.7)	168Er (6228.8)
5874.5 (0.9)	98Mo (787.4)	5909.5 (0.2)	176Lu (71.5)	5942.6 (0.4)	80Br (37.1)
5875.1 (28.9)	79Se (6866.2)	5909.9 (22.1)	105Ru (143.2)	5943.5 (<0.1)	150Sm (334.0)
5876.3 (<0.1)	96Mo (778.3)	5910.0 (3.4)	170Tm (204.5)	5943.7 (<0.1)	134Cs (116.4)
5877.0 (0.4)	62Ni (1172.8)	5910.5	195Pt	5944.5 (0.5)	52V (125.1)
5878.0 (51.6)	168Er (6228.8)	5911.0 (25.3)	67Zn (6960.0)	5945.0 (0.8)	78Se (613.8)
5878.3 (0.7)	162Dy (185.0)	5912.1 (3.0)	182Ta (270.4)	5945.0 (8.5)	170Tm (204.5)
5878.5 (0.2)	78Se (613.8)	5912.4 (<0.1)	166Ho (136.7)	5945.1 (<0.1)	152Eu (89.8)
5879.6 (0.2)	114In (311.7)	5912.5 (0.4)	158Gd (181.9)	5945.0	94Nb
5880.0 (3.3)	198Au (214.8)	5912.8 (34.7)	77Ge (3895.2)	5948.6 (0.4)	104Rh (180.9)
5880.2 (5.0)	163Dy (351.1)	5913.9 (0.6)	68Zn (1077.4)	5948.7 (14.0)	182Ta (270.4)
5880.7 (0.7)	124Te (602.4)	5914.0 (0.4)	148Sm (550.0)	5950.1 (12.7)	168Er (6228.8)
5880.9 (0.6)	104Rh (180.9)	5914.1 (0.1)	152Eu (89.8)	5951.2	122Sb
5881.2 (1.6)	190Os (186.7)	5914.6 (<0.1)	96Mo (778.3)	5951.2 (<0.1)	134Cs (116.4)
5881.7	94Nb	5915.0	180Hf	5951.6 (1.0)	96Mo (778.3)
5882.7 (0.4)	194Ir (371.7)	5915.3 (<0.1)	134Cs (116.4)	5952.1 (<0.1)	154Eu (68.2)
5883.0 (1.8)	72Ga (145.1)	5916.5 (6.1)	104Rh (180.9)	5952.8 (1.5)	196Pt (356.1)
5883.9 (0.5)	80Br (37.1)	5916.7 (2.2)	80Br (37.1)	5953.0	180Hf
5884.0 (1.7)	76As (165.0)	5917.1 (0.1)	162Dy (185.0)	5953.7 (2.8)	160Tb (75.1)
5884.0 (<0.1)	177Lu (150.4)	5918.0 (0.3)	70Ga (508.4)	5953.9 (<0.1)	152Eu (89.8)
5884.8 (4.4)	168Er (6228.8)	5918.0 (3.4)	194Ir (371.7)	5954.5 (8.7)	194Ir (371.7)
5885.0 (0.2)	132Xe (667.5)	5918.0 (3.3)	66Cu (185.9)	5954.6 (0.2)	114In (311.7)
5885.0 (0.3)	156Gd (89.0)	5918.2 (<0.1)	154Eu (68.2)	5954.7 (1.8)	80Br (37.1)
5885.3	122Sb	5918.6 (7.6)	204Tl (139.9)	5954.9 (0.9)	162Dy (185.0)
5885.6	124Sb	5919.0 (2.5)	72Ga (145.1)	5955.9	94Nb
5885.7 (2.1)	86Rb (557.0)	5919.4 (0.1)	68Zn (1077.4)	5956.0 (0.6)	72Ga (145.1)
5885.7 (2.5)	103Ru (174.0)	5920.1 (<0.1)	152Eu (89.8)	5957.0 (1.2)	66Cu (185.9)
5888.2 (<0.1)	154Eu (68.2)	5920.1	172Yb	5958.1 (0.2)	188Os (155.0)
5888.4 (0.3)	68Zn (1077.4)	5920.2 (3.7)	188Os (155.0)	5959.4 (<0.1)	154Eu (68.2)
5888.5 (<0.1)	177Lu (150.4)	5920.5 (4.6)	50Mn (28.6)	5960.5 (6.6)	202Hg (439.5)
5889.3 (6.7)	105Ru (143.2)	5920.5 (30.5)	57Fe (7631.6)	5961.0 (0.4)	70Ga (508.4)
5889.6 (6.6)	182Ta (270.4)	5921.0 (<0.1)	96Mo (778.3)	5961.7 (<0.1)	150Sm (334.0)
5890.0 (0.6)	58Fe (810.5)	5923.4 (<0.1)	154Eu (68.2)	5962.0 (<0.1)	114In (311.7)
5890.0 (0.4)	188Os (155.0)	5923.4 (1.0)	80Br (37.1)	5963.0 (0.1)	74Ge (595.7)
5891.2 (<0.1)	150Sm (334.0)	5923.7 (0.1)	150Sm (334.0)	5963.5 (<0.1)	152Eu (89.8)
5891.5 (6.8)	160Tb (75.1)	5924.6 (0.3)	114In (311.7)	5965.0 (100.0)	182Ta (270.4)
5891.5 (0.7)	204Tl (139.9)	5925.1 (8.1)	60Co (229.8)	5965.1	94Nb
5891.7 (13.4)	52V (125.1)	5926.0 (0.7)	46Sc (227.8)	5965.4 (0.8)	188Os (155.0)
5891.8 (<0.1)	152Eu (89.8)	5926.0 (<0.1)	148Sm (550.0)	5965.6 (<0.1)	154Eu (68.2)
5891.8 (0.3)	158Gd (181.9)	5927.0 (1.1)	70Ga (508.4)	5966.3 (0.2)	68Zn (1077.4)
5892.5 (4.2)	116In (273.0)	5927.1 (0.5)	104Rh (180.9)	5966.6 (0.2)	104Rh (180.9)
5893.2 (<0.1)	98Mo (787.4)	5927.4 (3.1)	194Ir (371.7)	5967.4 (<0.1)	96Mo (778.3)
5894.0 (0.3)	124Te (602.4)	5929.0 (0.4)	80Br (37.1)	5967.4 (1.2)	200Hg (367.9)
5894.3 (<0.1)	166Ho (136.7)	5929.9 (<0.1)	96Mo (778.3)	5967.5 (0.3)	78Se (613.8)
5895.9 (0.2)	162Dy (185.0)	5930.2 (<0.1)	152Eu (89.8)	5968.0 (0.9)	62Ni (1172.8)
5895.9 (0.5)	177Lu (150.4)	5930.2 (6.6)	202Hg (439.5)	5968.1 (10.6)	173Yb (399.4)
5896.0	94Nb	5930.4 (0.5)	77Se (238.9)	5968.2 (<0.1)	114In (311.7)
5897.0 (7.9)	46Sc (227.8)	5930.9 (10.4)	75Ge (574.7)	5968.8 (0.5)	190Os (186.7)
5900.0 (3.5)	170Tm (204.5)	5931.3 (6.6)	205Pb (6731.5)	5970.2 (<0.1)	154Eu (68.2)
5900.8 (<0.1)	96Mo (778.3)	5932.2 (6.2)	190Os (186.7)	5971.2 (<0.1)	152Eu (89.8)
5901.0 (3.0)	72Ga (145.1)	5932.3 (0.6)	86Rb (557.0)	5972.0	118Sn
5902.4	124Sb	5933.0 (0.4)	70Ga (508.4)	5973.4 (3.0)	138Ba (1435.6)
5903.0 (0.2)	74Ge (595.7)	5933.1 (<0.1)	154Eu (68.2)	5973.5 (0.4)	80Br (37.1)
5903.2 (26.4)	158Gd (181.9)	5934.1 (3.5)	168Er (6228.8)	5973.7 (0.2)	124Te (602.4)
5903.7 (<0.1)	166Ho (136.7)	5934.4 (<0.1)	124Te (602.4)	5974.0 (0.9)	76As (165.0)
5904.0 (91.0)	116Sn (1293.5)	5934.8 (0.2)	103Ru (174.0)	5975.1 (34.8)	60Co (229.8)
5904.0 (0.6)	167Er (207.8)	5934.8 (0.9)	114Cd (1660.3)	5976.0 (<0.1)	96Mo (778.3)
5904.3 (<0.1)	152Eu (89.8)	5934.9 (0.2)	104Rh (180.9)	5976.0 (<0.1)	134Cs (116.4)
5905.1 (<0.1)	154Eu (68.2)	5935.1 (0.2)	196Pt (356.1)	5976.6 (1.0)	56Mn (26.6)
5905.4 (1.4)	173Yb (399.4)	5936.1 (0.2)	68Zn (1077.4)	5978.9 (0.4)	166Ho (136.7)
5905.6 (0.6)	56Mn (26.6)	5936.6 (13.0)	240Pu (5575.0)	5979.8 (<0.1)	124Te (602.4)
5905.6 (3.8)	58Fe (810.5)	5937.1 (0.4)	114In (311.7)	5979.9 (3.7)	184W (111.2)
5906.3 (1.1)	194Ir (371.7)	5937.6 (0.4)	164Dy (73.4)	5980.0 (1.2)	46Sc (227.8)
5906.4 (0.3)	75Se (286.6)	5937.8	122Sb	5980.1 (13.8)	45Ca (174.3)
5906.5 (0.6)	104Rh (180.9)	5938.2 (<0.1)	152Eu (89.8)	5980.2 (3.8)	86Rb (557.0)
5906.8 (0.6)	80Br (37.1)	5938.2 (<0.1)	169Er (429.9)	5981.2	122Sb
5907.0 (0.8)	77Se (238.9)	5939.9 (<0.1)	154Eu (68.2)	5981.3	94Nb
5907.4	94Nb	5941.2 (3.4)	198Au (214.8)	5981.9 (0.4)	166Ho (136.7)
5907.4 (<0.1)	177Lu (150.4)	5941.9 (0.1)	98Mo (787.4)	5982.6 (0.6)	68Zn (1077.4)
5907.5 (0.1)	68Zn (1077.4)	5942.0 (100.0)	159Gd (5942.0)	5982.8 (2.3)	194Ir (371.7)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_γ keV (χ/γ)	Nucleus (Strongest γ)	E_γ keV (χ/γ)	Nucleus (Strongest γ)	E_γ keV (χ/γ)	Nucleus (Strongest γ)
5982.9	124Sb	6026.6 (0.7)	78Se (613.8)	6066.1 (3.5)	194Ir (371.7)
5983.0 (7.0)	1850s (6588.0)	6027.0 (2.7)	76As (165.0)	6066.4 (0.3)	98Mo (778.3)
5983.3 (11.1)	198Au (214.8)	6028.3	124Sb	6067.0	108Ag
5983.4 (2.8)	178Lu (71.5)	6028.7 (1.8)	58Fe (810.5)	6067.5 (0.3)	152Eu (89.8)
5983.5 (<0.1)	152Eu (89.8)	6029.4 (6.2)	138Ba (1435.6)	6069.4 (0.6)	98Mo (787.4)
5985.5 (0.3)	80Br (37.1)	6030.2 (<0.1)	154Eu (88.2)	6070.7	94Nb
5987.0 (1.3)	76As (165.0)	6030.6 (2.9)	56Mn (28.6)	6070.7 (0.6)	114In (311.7)
5987.0 (<0.1)	154Eu (88.2)	6030.7 (0.1)	124Te (602.4)	6071.4 (0.3)	75Se (286.6)
5987.5 (<0.1)	98Mo (778.3)	6030.9 (0.1)	68Zn (1077.4)	6071.6 (0.2)	168Ho (136.7)
5988.8 (<0.1)	178Hf (213.4)	6031.0 (0.2)	70Ga (508.4)	6073.1 (0.2)	158Gd (181.9)
5989.8 (0.7)	104Rh (180.9)	6031.0 (<0.1)	74Ge (595.7)	6074.1 (0.9)	196Pt (356.1)
5990.0 (0.3)	51Cr (749.0)	6031.0 (0.2)	148Sm (550.0)	6074.4 (0.9)	114In (311.7)
5990.0 (<0.1)	74Ge (595.7)	6031.0 (1.0)	188Os (155.0)	6074.7 (<0.1)	162Dy (185.0)
5991.2 (1.4)	87Sr (8039.8)	6033.5 (3.3)	196Pt (356.1)	6077.0 (<0.1)	76As (165.0)
5991.7 (0.1)	80Br (37.1)	6034.0 (100.0)	65Ni (6034.0)	6078.0 (1.0)	168Er (6228.8)
5993.9 (<0.1)	124Te (602.4)	6034.6 (6.3)	168Er (6228.8)	6079.4 (0.8)	80Br (37.1)
5994.2 (<0.1)	116In (273.0)	6034.9 (0.5)	156Gd (89.0)	6079.6 (0.2)	158Gd (181.9)
5994.7 (3.3)	160Tb (75.1)	6035.5 (<0.1)	150Sm (334.0)	6079.6 (85.0)	90Y (776.7)
5995.0 (<0.1)	148Sm (550.0)	6035.9 (<0.1)	154Eu (88.2)	6080.0 (0.3)	98Mo (787.4)
5995.5 (0.8)	158Gd (181.9)	6036.0	108Ag	6081.9 (0.6)	86Rb (557.0)
5995.9	124Sb	6037.1 (0.5)	52V (125.1)	6082.5 (1.1)	75Se (286.6)
5996.0	108Ag	6037.1 (0.2)	88Sr (1936.1)	6082.8 (2.8)	104Rh (180.9)
5996.2	94Nb	6037.2 (23.5)	71Ge (499.8)	6082.9	124Sb
5998.3 (<0.1)	96Mo (778.3)	6037.4 (10.0)	65Zn (7863.3)	6083.6 (0.1)	152Eu (89.8)
5999.3 (1.2)	88Sr (1836.1)	6039.9 (2.8)	60Co (229.8)	6084.7 (0.8)	52V (125.1)
5999.5 (9.3)	54Cr (8884.1)	6040.3 (<0.1)	152Eu (89.8)	6086.4 (0.1)	177Lu (150.4)
6002.2 (1.3)	114In (311.7)	6041.8 (0.3)	80Br (37.1)	6087.0 (<0.1)	124Te (602.4)
6002.4 (<0.1)	169Er (429.9)	6042.0 (0.2)	74Ge (595.7)	6087.4 (0.3)	136Ba (818.6)
6003.4 (<0.1)	152Eu (89.8)	6042.0	118Sn	6088.0 (14.3)	47Ti (159.0)
6003.5 (<0.1)	170Tm (204.5)	6042.6 (0.6)	158Gd (181.9)	6088.8 (0.4)	156Gd (89.0)
6003.9 (1.3)	196Pt (356.1)	6043.4 (2.5)	168Er (6228.8)	6089.1 (0.7)	184W (111.2)
6004.4 (24.1)	55Cr (6246.4)	6043.5 (0.5)	75Se (286.6)	6089.3 (<0.1)	154Eu (89.8)
6004.4 (0.1)	68Zn (1077.4)	6044.6 (0.1)	166Ho (136.7)	6091.2 (<0.1)	61Ni (7819.6)
6005.0 (0.6)	76As (165.0)	6046.0 (4.1)	104Rh (180.9)	6092.0 (<0.1)	178Hf (213.4)
6005.2 (0.5)	80Br (37.1)	6046.5 (1.4)	78Se (613.8)	6092.6 (0.3)	177Lu (150.4)
6006.4 (16.5)	77Se (238.9)	6048.1 (<0.1)	154Eu (88.2)	6092.7 (13.0)	101Ru (6271.4)
6006.4 (0.4)	158Gd (181.9)	6048.3	124Sb	6093.9 (80.5)	146Nd (7110.8)
6006.5 (0.1)	162Dy (185.0)	6048.4 (0.2)	116In (273.0)	6095.0	180Hf
6007.0 (1.0)	48Ti (983.7)	6049.0 (5.8)	66Cu (185.9)	6096.8 (1.1)	103Ru (174.0)
6007.0 (10.0)	72Ga (145.1)	6049.6 (<0.1)	152Eu (89.8)	6097.0 (1.1)	46Sc (227.8)
6007.2 (1.4)	202Hg (439.5)	6051.6 (<0.1)	134Cs (116.4)	6097.3 (<0.1)	154Eu (89.8)
6008.5 (<0.1)	154Eu (88.2)	6051.7 (27.5)	168Er (6228.8)	6097.5 (0.2)	196Pt (356.1)
6009.1 (<0.1)	152Eu (89.8)	6051.8 (0.9)	166Ho (136.7)	6098.0 (1.3)	70Ga (508.4)
6009.5	122Sb	6052.0 (1.1)	77Se (238.9)	6098.0 (1.6)	76As (165.0)
6010.0 (11.1)	64Cu (7916.0)	6052.9 (1.4)	86Rb (557.0)	6100.9 (0.2)	156Gd (89.0)
6010.6	172Yb	6053.0	108Ag	6101.4 (<0.1)	96Mo (778.3)
6012.0	180Hf	6053.4	169Yb	6101.7	128I
6012.3 (<0.1)	152Eu (89.8)	6054.4 (1.0)	80Br (37.1)	6101.8 (4.8)	88Sr (1836.1)
6013.2 (13.3)	87Sr (8039.8)	6055.0 (7.1)	46Sc (227.8)	6102.0 (5.3)	59Ni (8999.3)
6014.0 (0.6)	66Cu (165.9)	6055.0 (7.5)	50Ti (1555.0)	6102.0 (<0.1)	74Ge (595.7)
6015.9	122Sb	6057.0 (<0.1)	116In (273.0)	6102.2 (<0.1)	98Mo (787.4)
6016.0 (0.8)	76As (165.0)	6057.0 (0.3)	66Cu (185.9)	6102.7 (<0.1)	154Eu (89.8)
6016.3 (5.3)	77Se (238.9)	6057.9 (1.3)	103Ru (174.0)	6102.8 (<0.1)	152Eu (89.8)
6016.3 (<0.1)	150Sm (334.0)	6058.4 (0.2)	68Zn (1077.4)	6103.0 (<0.1)	124Te (602.4)
6017.7	169Yb	6058.4 (<0.1)	152Eu (89.8)	6103.9 (11.1)	56Mn (26.6)
6018.5 (29.8)	57Fe (7631.6)	6058.5 (1.0)	190Os (186.7)	6106.7 (5.5)	198Au (214.8)
6018.6 (<0.1)	154Eu (88.2)	6059.2	94Nb	6106.3 (0.6)	78Se (613.8)
6019.0 (<0.1)	152Eu (89.8)	6059.9 (0.8)	80Br (37.1)	6109.0	195Pt
6019.2 (0.3)	58Mn (26.6)	6060.0 (3.1)	76As (165.0)	6109.1 (<0.1)	152Eu (89.8)
6019.8 (0.3)	96Mo (778.3)	6061.8 (<0.1)	166Ho (136.7)	6109.2 (1.2)	104Rh (180.9)
6020.0 (0.3)	70Ga (508.4)	6062.0 (3.3)	64Cu (7916.0)	6109.7 (2.4)	60Co (229.8)
6021.7 (0.6)	188Os (155.0)	6062.5 (14.2)	168Er (6228.8)	6110.0 (9.4)	72Ga (145.1)
6021.9 (0.1)	98Mo (787.4)	6062.9 (60.0)	182Ta (270.4)	6110.0	108Ag
6022.8 (<0.1)	152Eu (89.8)	6063.0	118Sn	6110.0 (0.4)	146Sm (550.0)
6023.0 (11.6)	152Sm (3751.0)	6063.5 (3.5)	136Ba (818.6)	6110.0 (<0.1)	178Hf (213.4)
6023.0 (1.9)	194Ir (371.7)	6064.0	172Yb	6110.0 (1.0)	202Hg (439.5)
6024.5 (35.6)	184W (111.2)	6064.3	124Sb	6110.6 (0.2)	114In (311.7)
6024.8 (0.1)	124Te (602.4)	6064.3 (<0.1)	178Hf (213.4)	6110.7 (<0.1)	154Eu (89.8)
6025.0	108Ag	6064.5 (4.4)	86Rb (557.0)	6111.3 (0.6)	188Os (155.0)
6026.4 (2.1)	204Tl (139.9)	6065.0 (2.8)	66Cu (185.9)	6112.0 (<0.1)	177Lu (150.4)

Table 1. CAPTURE γ 's - energy sorted (cont.)

E γ keV (X γ)	Nucleus (Strongest γ)	E γ keV (X γ)	Nucleus (Strongest γ)	E γ keV (X γ)	Nucleus (Strongest γ)
6112.3 (0.9)	1900s (186.7)	6163.5 (<0.1)	152Eu (89.8)	6210.8 (3.8)	104Rh (180.9)
6112.9	128I	6163.8	122Sb	6211.1 (0.4)	114In (311.7)
6114.0 (<0.1)	76As (165.0)	6163.9 (0.3)	104Rh (180.9)	6211.3	128I
6115.0 (<0.1)	74Ge (595.7)	6164.4	128I	6212.3 (0.6)	124Te (602.4)
6115.0 (5.6)	168Er (6228.8)	6165.5 (1.9)	198Au (214.8)	6214.2 (0.4)	75Se (286.6)
6115.0 (2.4)	66Cu (185.9)	6165.7 (0.2)	1880s (155.0)	6215.6 (<0.1)	152Eu (89.8)
6116.0 (<0.1)	98Mo (787.4)	6166.3 (0.2)	74Ge (595.7)	6216.1 (<0.1)	178Hf (213.4)
6117.9 (0.3)	114In (311.7)	6166.3	94Nb	6216.3	128I
6118.0 (22.1)	71Ge (499.8)	6167.3 (<0.1)	96Mo (778.3)	6217.0 (4.0)	1850s (6588.0)
6118.0	118Sn	6167.5 (<0.1)	150Sm (334.0)	6218.2	124Sb
6120.0 (1.3)	70Ga (508.4)	6167.5 (15.4)	204Tl (139.9)	6218.2 (5.1)	160Tb (75.1)
6120.1 (1.8)	204Tl (139.9)	6169.0 (1.1)	64Cu (7916.0)	6218.9 (<0.1)	98Mo (787.4)
6120.6 (<0.1)	154Eu (68.2)	6170.0 (7.9)	46Sc (227.8)	6219.9 (0.5)	80Br (37.1)
6121.3 (0.1)	156Gd (89.0)	6171.1	172Yb	6220.0	108Ag
6123.0	180Hf	6171.2 (16.5)	167Er (207.8)	6220.6	128I
6123.9	128I	6171.5 (0.3)	68Zn (1077.4)	6220.6 (0.2)	162Dy (185.0)
6125.3 (<0.1)	116In (273.0)	6171.8 (3.3)	104Rh (180.9)	6222.7 (0.9)	48Ti (983.7)
6125.5	172Yb	6173.1 (1.3)	80Br (37.1)	6222.7 (<0.1)	1900s (186.7)
6128.0 (3.8)	72Ga (145.1)	6173.3 (0.6)	86Rb (557.0)	6222.7 (0.7)	98Mo (787.4)
6128.9 (1.0)	96Mo (778.3)	6173.8 (0.7)	74Ge (595.7)	6223.0 (1.4)	76As (165.0)
6129.0 (0.5)	76As (165.0)	6174.2 (<0.1)	98Mo (787.4)	6223.4 (6.3)	204Tl (139.9)
6129.6 (0.2)	150Sm (334.0)	6174.5	122Sb	6224.0 (0.1)	132Xe (667.5)
6129.6 (<0.1)	152Eu (89.8)	6175.4 (<0.1)	178Hf (213.4)	6224.2 (0.3)	196Pt (356.1)
6131.0	108Ag	6175.5 (1.1)	87Sr (8039.8)	6224.5 (2.5)	75Se (286.6)
6131.3 (0.6)	75Se (286.6)	6175.8 (<0.1)	134Cs (116.4)	6225.0 (0.3)	80Br (37.1)
6131.6 (0.1)	74Ge (595.7)	6176.0 (1.2)	76As (165.0)	6225.5 (0.4)	1880s (155.0)
6133.1 (0.6)	78Se (613.8)	6178.7 (0.2)	96Mo (778.3)	6226.0	172Yb
6134.1 (0.2)	98Mo (787.4)	6179.0 (1.3)	62Ni (1172.8)	6227.7 (5.1)	73Ge (326.0)
6134.4 (0.3)	48Ti (983.7)	6180.3	124Sb	6227.7 (0.2)	152Eu (89.8)
6134.6 (<0.1)	124Te (602.4)	6181.0 (1.2)	1880s (155.0)	6227.9 (0.3)	114In (311.7)
6134.9 (0.3)	116In (273.0)	6182.5 (0.1)	74Ge (595.7)	6228.2 (71.9)	167Er (207.8)
6135.0 (1.7)	70Ga (508.4)	6182.5 (0.3)	104Rh (180.9)	6228.8 (100.0)	168Er (6228.8)
6135.5 (0.4)	114In (311.7)	6182.9 (<0.1)	152Eu (89.8)	6229.0 (0.3)	116In (273.0)
6135.7 (9.5)	51Cr (749.0)	6183.6 (7.1)	204Tl (139.9)	6229.0 (94.0)	116Sn (1293.5)
6136.0 (1.1)	64Cu (7916.0)	6185.2 (0.2)	124Te (602.4)	6231.0 (1.3)	76As (165.0)
6137.3 (37.3)	168Er (6228.8)	6186.5 (<0.1)	98Mo (787.4)	6231.0 (5.5)	77Se (238.9)
6138.1 (<0.1)	134Cs (116.4)	6187.0 (0.4)	76As (165.0)	6231.0	180Hf
6138.8 (3.5)	160Tb (75.1)	6187.3 (<0.1)	154Eu (68.2)	6232.0 (1.5)	103Ru (174.0)
6140.1	128I	6187.5 (<0.1)	152Eu (89.8)	6233.0 (0.7)	64Cu (7916.0)
6140.6 (<0.1)	150Sm (334.0)	6188.3 (<0.1)	166Ho (136.7)	6233.0	81Se
6142.3 (<0.1)	154Eu (68.2)	6188.7 (0.2)	74Ge (595.7)	6234.8 (0.2)	156Gd (89.0)
6142.7 (0.9)	86Rb (557.0)	6188.7 (3.6)	86Rb (557.0)	6236.3 (<0.1)	92Zr (934.5)
6143.0 (1.8)	76As (165.0)	6189.4 (<0.1)	134Cs (116.4)	6236.8 (0.4)	114In (311.7)
6143.7	94Nb	6190.0 (2.6)	72Ga (145.1)	6237.0 (0.5)	72Ga (145.1)
6144.9 (1.0)	158Gd (181.9)	6190.0	180Hf	6239.0 (0.7)	70Ga (508.4)
6145.3 (3.2)	198Au (214.8)	6190.6 (26.0)	184W (111.2)	6240.0 (<0.1)	160Tb (75.1)
6145.7 (1.4)	1880s (155.0)	6192.0 (<0.1)	178Hf (213.4)	6241.0 (0.1)	162Dy (185.0)
6146.8	169Yb	6192.0 (2.4)	202Hg (439.5)	6241.0 (<0.1)	178Hf (213.4)
6147.8	122Sb	6192.8 (<0.1)	96Mo (778.3)	6242.8 (0.4)	1880s (155.0)
6148.0 (1.5)	80Br (37.1)	6193.0 (1.3)	46Sc (227.8)	6243.0 (7.9)	66Cu (185.9)
6148.9 (1.8)	60Co (229.8)	6193.2 (0.6)	104Rh (180.9)	6243.5 (0.1)	74Ge (595.7)
6149.2	128I	6194.7 (<0.1)	152Eu (89.8)	6244.1 (1.6)	78Se (613.8)
6149.8 (7.1)	198Au (214.8)	6196.0 (1.1)	70Ga (508.4)	6246.0 (2.8)	132Sm (3751.0)
6153.1 (<0.1)	150Sm (334.0)	6196.0	180Hf	6246.1 (<0.1)	134Cs (116.4)
6153.8 (0.4)	78Se (613.8)	6196.9 (13.7)	168Er (6228.8)	6246.4 (100.0)	55Cr (6246.4)
6154.1 (<0.1)	156Gd (89.0)	6197.9 (<0.1)	96Mo (778.3)	6246.5 (2.0)	1900s (186.7)
6154.3 (<0.1)	152Eu (89.8)	6200.0 (2.5)	76As (165.0)	6247.1 (1.2)	80Br (37.1)
6154.5 (2.0)	168Er (6228.8)	6201.1 (1.1)	74Ge (595.7)	6247.5 (0.4)	86Rb (557.0)
6156.0	108Ag	6201.7 (10.3)	168Er (6228.8)	6248.0 (2.2)	148Sm (550.0)
6156.0 (48.0)	1850s (6588.0)	6201.8 (<0.1)	134Cs (116.4)	6248.2 (22.0)	101Ru (6271.4)
6156.1 (<0.1)	154Eu (68.2)	6202.9 (<0.1)	154Eu (68.2)	6250.3 (<0.1)	150Sm (334.0)
6156.7 (<0.1)	98Mo (787.4)	6203.0 (0.9)	46Sc (227.8)	6252.1 (46.1)	75Ge (574.7)
6160.2 (<0.1)	154Eu (68.2)	6203.0 (0.1)	124Te (602.4)	6252.6 (43.1)	198Au (214.8)
6160.5 (<0.1)	166Ho (136.7)	6203.0	180Hf	6252.7	124Sb
6161.9 (0.1)	114In (311.7)	6203.2 (<0.1)	96Mo (778.3)	6253.9 (0.5)	52V (125.1)
6162.0	108Ag	6206.0 (6.0)	152Sm (3751.0)	6254.9 (2.8)	114In (311.7)
6162.0 (5.5)	242Pu (5476.9)	6206.3 (0.3)	51Cr (749.0)	6255.0 (<0.1)	76As (165.0)
6162.3 (0.2)	68Zn (1077.4)	6206.5 (0.2)	104Rh (180.9)	6255.0	108Ag
6163.0 (5.0)	58Fe (810.5)	6207.0 (0.9)	70Ga (508.4)	6255.7 (0.5)	177Lu (150.4)
6163.0 (9.6)	152Sm (3751.0)	6207.1	169Yb	6257.6 (<0.1)	154Eu (68.2)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_γ keV ($\%I_\gamma$)	Nucleus (Strongest γ)	E_γ keV ($\%I_\gamma$)	Nucleus (Strongest γ)	E_γ keV ($\%I_\gamma$)	Nucleus (Strongest γ)		
6258.6	94Nb	6312.3	(<0.1)	6367.2	(0.1)	96Mo	(778.3)
6258.7	(0.3)	6315.5	(2.0)	6368.0	(0.3)	1880s	(155.0)
6258.8	(7.1)	6316.6	(<0.1)	6369.2	(<0.1)	154Eu	(68.2)
6262.6	(1.8)	6317.0	(1.0)	6370.0	(1.2)	76As	(165.0)
6264.4	(6.0)	6317.9	(0.2)	6370.0		108Ag	
6264.9	(5.0)	6318.0	(8.7)	6370.9	(5.0)	51Cr	(749.0)
6265.0	108Ag	6318.1	(<0.1)	6370.9	(0.5)	80Br	(37.1)
6265.0	135Ba	6318.5	(0.2)	6372.6	(0.7)	52V	(125.1)
6265.2	(<0.1)	6319.1	(0.4)	6373.5	(10.1)	51Ti	(1166.6)
6266.0	(3.2)	6319.1	(0.3)	6375.0	(4.4)	146Nd	(7110.8)
6267.0	(1.9)	6319.3	(7.8)	6376.0	(0.9)	170Tm	(204.5)
6267.1	(8.5)	6319.4	(<0.1)	6378.0	(1.1)	132Xe	(667.5)
6268.2	(0.4)	6319.7	(1.5)	6379.0	(0.1)	124Te	(602.4)
6268.9	(4.8)	6319.7	(8.9)	6379.7		124Sb	
6269.0	(<0.1)	6320.0	(26.5)	6379.7	(<0.1)	104Rh	(180.9)
6270.0	(0.7)	6320.3	(4.8)	6380.7	(2.4)	57Fe	(7631.6)
6270.4	(<0.1)	6322.0	(5.9)	6380.8	(<0.1)	98Mo	(787.4)
6271.0	(0.2)	6322.0	(2.5)	6382.0	(1.2)	76As	(165.0)
6271.4	(100.0)	6322.2		6385.0	(2.3)	86Rb	(557.0)
6271.7	128I	6324.3	(2.1)	6387.0	(0.5)	62Ni	(1172.8)
6272.1	(0.6)	6325.0	(0.3)	6388.0		108Ag	
6275.2	(3.2)	6326.1	(1.1)	6389.0	(<0.1)	154Eu	(68.2)
6275.5	(0.6)	6327.0	(16.3)	6389.0	(8.7)	170Tm	(204.5)
6276.5	(11.2)	6328.0	(10.4)	6390.0	(4.1)	67Zn	(6960.0)
6276.6	(0.1)	6328.3	(0.2)	6390.3		128I	
6276.8	(9.7)	6331.5	(<0.1)	6390.6	(36.8)	73Ge	(326.0)
6277.0	(0.5)	6332.9		6390.7	(<0.1)	96Mo	(778.3)
6277.4	(<0.1)	6333.0	(98.0)	6391.0	(6.5)	70Ga	(508.4)
6278.4	(0.9)	6334.5	(0.1)	6391.0	(0.2)	74Ge	(595.7)
6278.7	(2.7)	6335.2	(<0.1)	6392.0	(0.4)	72Ga	(145.1)
6279.2	(0.1)	6335.7		6392.0	(<0.1)	154Eu	(68.2)
6280.2	(1.6)	6337.1	(2.0)	6392.6	(0.1)	98Mo	(787.4)
6280.6	(<0.1)	6338.0	(2.0)	6393.0	(4.1)	76As	(165.0)
6282.3	(0.2)	6338.5	(<0.1)	6393.0	(5.6)	66Cu	(185.9)
6282.7	(3.9)	6339.3	(<0.1)	6394.0	(7.0)	64Cu	(7916.0)
6282.8	(2.6)	6340.1	(2.0)	6395.0	(0.7)	62Ni	(1172.8)
6285.6	(0.2)	6341.0	(1.3)	6395.7	(5.5)	236U	(642.2)
6287.0	(0.5)	6342.0		6397.7	(<0.1)	200Hg	(367.9)
6289.5	(23.4)	6342.5	(0.9)	6399.0		135Ba	
6290.0	(0.2)	6342.7	(0.2)	6401.0	(0.7)	70Ga	(508.4)
6290.8	(1.9)	6344.0	(1.5)	6401.0	(0.5)	72Ga	(145.1)
6292.0		6344.0	(<0.1)	6402.2	(0.6)	80Br	(37.1)
6292.1	(0.3)	6344.3	(1.9)	6403.0	(3.0)	76As	(165.0)
6292.4		6346.5	(2.5)	6406.2	(1.5)	202Hg	(439.5)
6292.8	94Nb	6347.3	(<0.1)	6406.9	(<0.1)	104Rh	(180.9)
6293.0	(0.8)	6347.9	(<0.1)	6407.7	(0.5)	74Ge	(595.7)
6295.0	(87.9)	6348.0		6408.0	(<0.1)	134Cs	(116.4)
6295.0	(6.5)	6348.1	(0.2)	6408.0	(0.2)	148Sm	(550.0)
6295.2	(<0.1)	6348.5	(0.3)	6408.5	(42.9)	184W	(111.2)
6296.0	(10.8)	6350.0	(0.7)	6408.7	(1.7)	190Os	(186.7)
6297.7	(0.5)	6352.0	(2.0)	6408.8		94Nb	
6300.0	(2.6)	6354.4	(2.2)	6409.7		122Sb	
6301.0	(<0.1)	6355.4	(0.2)	6410.4	(0.5)	116In	(273.0)
6301.6	(0.4)	6355.9	(<0.1)	6412.8	(10.3)	77Se	(238.9)
6302.4	(0.9)	6356.0	(2.1)	6413.5		172Yb	
6303.0	(<0.1)	6356.5	(2.3)	6414.3	(2.4)	58Fe	(810.5)
6303.6	(<0.1)	6356.6	(1.1)	6417.0	(3.2)	66Cu	(185.9)
6304.0	(2.5)	6357.0	(3.6)	6417.3	(21.3)	49Ti	(1381.5)
6304.9	(<0.1)	6357.3	(<0.1)	6418.0	(0.7)	64Cu	(7916.0)
6305.2	(<0.1)	6358.8	(2.4)	6418.2	(<0.1)	96Mo	(778.3)
6306.6	(0.1)	6359.0	(19.0)	6418.5	(<0.1)	98Mo	(787.4)
6306.9	(0.1)	6359.0	(0.8)	6419.0	(20.6)	73Ge	(326.0)
6307.1		6361.3	(0.2)	6419.0	(3.0)	76As	(165.0)
6308.3	(0.1)	6363.7	(1.1)	6419.0		118Sn	
6308.4	(<0.1)	6363.7		6419.9	(0.5)	104Rh	(180.9)
6309.0	(0.7)	6363.9	(1.3)	6420.1	(1.9)	158Gd	(181.9)
6310.0	(3.2)	6364.0	(0.7)	6421.4	(0.6)	68Zn	(1077.4)
6310.0	(2.3)	6364.8	(0.3)	6421.5	(<0.1)	138Ba	(1435.6)
6310.3	(<0.1)	6365.5	(<0.1)	6424.0	(<0.1)	74Ge	(595.7)
6310.6	(0.6)	6367.0	(16.6)	6424.0	(<0.1)	148Sm	(550.0)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV (χ^2/γ)	Nucleus (Strongest γ)	E_{γ} keV (χ^2/γ)	Nucleus (Strongest γ)	E_{γ} keV (χ^2/γ)	Nucleus (Strongest γ)
6426.5	124Sb	6492.0 (0.2)	68Zn (1077.4)	6568.0 (0.3)	68Zn (1077.4)
6429.1 (4.1)	56Mn (26.6)	6493.0 (<0.1)	124Te (602.4)	6568.0	108Ag
6429.5 (<0.1)	61Ni (7819.6)	6494.6 (8.4)	168Er (6228.8)	6568.1 (<0.1)	74Ge (595.7)
6430.0 (0.4)	46Sc (227.8)	6494.9	122Sb	6568.2 (<0.1)	92Zr (934.5)
6430.7 (<0.1)	98Mo (787.4)	6496.0 (9.0)	1850s (6588.0)	6568.8 (0.2)	156Gd (89.0)
6430.8 (2.1)	87Sr (8039.8)	6498.6 (1.9)	78Se (613.8)	6570.1 (0.7)	80Br (37.1)
6433.7 (0.1)	51Cr (749.0)	6500.0 (2.8)	152Sm (3751.0)	6571.0 (<0.1)	76As (165.0)
6434.1	128I	6500.0 (0.3)	236U (642.2)	6571.5 (2.5)	202Hg (439.5)
6435.0 (10.0)	79Se (6866.2)	6501.7 (0.6)	80Br (37.1)	6571.9 (0.8)	80Br (37.1)
6435.6 (0.6)	98Mo (787.4)	6503.0 (0.7)	72Ca (145.1)	6574.9 (0.5)	136Ba (818.6)
6435.8	94Nb	6503.2 (1.7)	86Rb (557.0)	6576.5 (<0.1)	96Mo (778.3)
6436.0 (<0.1)	124Te (602.4)	6505.6 (11.7)	75Ge (574.7)	6577.3 (0.9)	114In (311.7)
6436.1 (0.7)	177Lu (150.4)	6506.0 (1.5)	46Sc (227.8)	6577.9 (22.7)	168Er (6228.8)
6437.8 (4.7)	75Se (286.6)	6506.4 (10.6)	58Fe (810.5)	6580.8 (<0.1)	156Gd (89.0)
6437.8 (1.1)	114In (311.7)	6506.5 (0.8)	77Se (238.9)	6582.0 (4.0)	59Fe (287.0)
6437.9 (<0.1)	134Cs (116.4)	6507.1 (0.2)	57Fe (7631.6)	6582.8	175Hf
6438.3 (0.8)	80Br (37.1)	6507.1 (<0.1)	96Mo (778.3)	6583.0 (7.4)	59Ni (8999.3)
6439.2 (<0.1)	154Eu (68.2)	6507.7 (9.5)	184W (111.2)	6583.2 (<0.1)	96Mo (778.3)
6440.0 (0.4)	76As (165.0)	6508.6 (<0.1)	156Gd (89.0)	6584.6 (5.4)	71Ge (499.8)
6441.8	128I	6509.1 (7.8)	65Zn (7863.3)	6586.0 (2.7)	76As (165.0)
6443.3 (<0.1)	98Mo (787.4)	6511.0 (0.2)	1880s (155.0)	6588.0 (100.0)	1850s (6588.0)
6444.6 (2.2)	170Tm (204.5)	6512.1 (0.1)	175Hf	6589.0	118Sn
6445.0 (1.6)	62Ni (1172.8)	6513.2 (13.2)	198Au (214.8)	6589.5	128I
6449.0 (0.5)	70Ga (508.4)	6513.6 (5.3)	70Ga (508.4)	6590.1 (0.2)	106Pd (513.0)
6449.0 (<0.1)	124Te (602.4)	6514.5 (0.2)	104Rh (180.9)	6594.0 (3.0)	64Cu (7916.0)
6449.7 (<0.1)	96Mo (778.3)	6514.9 (<0.1)	98Mo (787.4)	6594.0 (0.2)	170Tm (204.5)
6450.7	128I	6515.0 (<0.1)	134Cs (116.4)	6596.8	122Sb
6451.0 (<0.1)	178Hf (213.4)	6515.7 (11.7)	204Tl (139.9)	6597.3 (<0.1)	68Zn (1077.4)
6451.7 (<0.1)	98Mo (787.4)	6517.2 (86.6)	52V (125.1)	6597.3	94Nb
6454.2 (0.3)	96Mo (778.3)	6518.5 (<0.1)	74Ge (595.7)	6599.7 (1.0)	52V (125.1)
6456.5	124Sb	6518.8 (0.1)	196Pt (356.1)	6600.0 (42.5)	66Cu (185.9)
6457.0 (1.9)	46Sc (227.8)	6519.0 (3.1)	72Ga (145.1)	6600.3 (<0.1)	156Gd (89.0)
6457.8 (18.9)	198Au (214.8)	6519.1 (4.2)	84Kr (881.8)	6600.5 (34.6)	77Se (238.9)
6458.3 (0.4)	200Hg (367.9)	6520.3 (6.2)	86Rb (557.0)	6603.0 (100.0)	116Sn (1293.5)
6459.6 (<0.1)	104Rh (180.9)	6521.3 (52.8)	146Nd (7110.8)	6606.6 (0.8)	71Ge (499.8)
6460.0 (0.8)	78Se (613.8)	6523.4	122Sb	6607.0 (5.2)	152Sm (3751.0)
6462.0 (4.2)	79Se (6866.2)	6523.5 (0.3)	162Dy (185.0)	6607.1 (<0.1)	124Te (602.4)
6464.8 (50.6)	52V (125.1)	6525.3 (0.3)	80Br (37.1)	6608.3 (16.0)	101Ru (6271.4)
6465.0 (1.1)	76As (165.0)	6529.0 (0.5)	76As (165.0)	6610.0 (7.3)	137Ba (4712.0)
6465.0 (0.3)	156Gd (89.0)	6529.1 (0.1)	96Mo (778.3)	6610.8 (0.3)	68Zn (1077.4)
6465.6	128I	6529.9	128I	6612.8 (0.7)	80Br (37.1)
6466.0 (5.9)	132Xe (667.5)	6532.0 (2.4)	62Ni (1172.8)	6613.3	122Sb
6466.9 (<0.1)	74Ge (595.7)	6532.9 (0.9)	1880s (155.0)	6613.9 (0.2)	96Mo (778.3)
6467.3	124Sb	6533.3 (0.2)	68Zn (1077.4)	6614.7 (100.0)	171Yb (6614.7)
6468.3 (1.4)	48Ti (983.7)	6533.5 (1.4)	80Br (37.1)	6615.2	172Yb
6468.7 (0.3)	80Br (37.1)	6536.0 (1.4)	76As (165.0)	6615.3 (0.4)	104Rh (180.9)
6470.4 (<0.1)	116In (273.0)	6536.9 (<0.1)	98Mo (787.4)	6616.6 (0.2)	124Te (602.4)
6471.2 (3.5)	86Rb (557.0)	6537.0 (0.8)	46Sc (227.8)	6616.9 (0.1)	164Dy (73.4)
6471.4 (5.0)	68Zn (1077.4)	6537.6 (0.2)	150Sm (334.0)	6617.0 (1.1)	55Fe (9297.8)
6471.9 (22.1)	205Pb (6731.5)	6543.0 (1.3)	76As (165.0)	6617.0 (5.2)	64Cu (7916.0)
6472.5	122Sb	6543.5	172Yb	6619.5 (<0.1)	156Gd (89.0)
6474.2 (<0.1)	74Ge (595.7)	6545.5 (0.5)	74Ge (595.7)	6619.6 (0.8)	56Mn (26.6)
6476.0 (0.7)	64Cu (7916.0)	6545.6 (0.2)	114In (311.7)	6621.3 (0.1)	177Lu (150.4)
6476.0 (0.2)	80Br (37.1)	6547.7 (18.2)	171Yb (6614.7)	6621.6 (<0.1)	134Cs (116.4)
6476.6 (0.2)	104Rh (180.9)	6548.0 (<0.1)	148Sm (550.0)	6621.8 (0.7)	162Dy (185.0)
6477.6 (<0.1)	124Te (602.4)	6550.3	122Sb	6623.0 (2.2)	62Ni (1172.8)
6480.8 (4.0)	48Ti (983.7)	6553.0 (0.4)	64Cu (7916.0)	6624.6 (16.1)	98Mo (787.4)
6480.8	128I	6553.8 (1.1)	56Mn (26.6)	6624.8 (0.3)	106Pd (513.0)
6481.2 (<0.1)	150Sm (334.0)	6554.0	172Yb	6624.9 (0.7)	56Mn (26.6)
6482.0 (20.9)	69Zn (1008.0)	6555.0 (<0.1)	150Sm (334.0)	6625.9 (0.9)	52V (125.1)
6482.0 (0.2)	148Sm (550.0)	6555.6 (0.7)	52V (125.1)	6628.0 (0.7)	64Cu (7916.0)
6482.2 (0.2)	156Gd (89.0)	6556.4 (5.3)	170Tm (204.5)	6628.0	122Sb
6483.7	122Sb	6557.0 (7.1)	46Sc (227.8)	6628.5 (<0.1)	150Sm (334.0)
6484.0 (0.2)	104Rh (180.9)	6557.2 (3.7)	49Ti (1381.5)	6629.7 (0.8)	70Ga (508.4)
6485.9 (33.8)	60Co (229.8)	6559.3 (<0.1)	116In (273.0)	6633.6 (2.3)	61Ni (7819.6)
6489.0 (0.4)	80Br (37.1)	6559.7 (0.2)	96Mo (778.3)	6634.8 (2.0)	61Ni (7819.6)
6489.1 (0.1)	106Pd (513.0)	6560.4 (0.4)	196Pt (356.1)	6639.0 (0.2)	70Ga (508.4)
6490.0 (4.8)	152Sm (3751.0)	6561.0	108Ag	6639.2	122Sb
6490.3 (0.4)	74Ge (595.7)	6564.7	128I	6642.0	118Sn
6491.2 (30.0)	240Pu (5575.0)	6566.7 (<0.1)	124Te (602.4)	6642.1 (0.7)	52V (125.1)

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV ($\times 10^3$)	Nucleus (Strongest γ)	E_{γ} keV ($\times 10^3$)	Nucleus (Strongest γ)	E_{γ} keV ($\times 10^3$)	Nucleus (Strongest γ)
6643.0 (2.4)	152Sm (3751.0)	6716.9 (4.1)	73Ge (326.0)	6815.8	128I
6643.7 (0.3)	51Cr (749.0)	6717.0 (5.5)	46Sc (227.8)	6816.0 (0.0)	74Ge (595.7)
6643.7 (1.5)	80Br (37.1)	6719.1 (5.1)	61Ni (7819.6)	6816.0	108Ag
6644.0 (2.7)	46Sc (227.8)	6719.4 (1.2)	74Ge (595.7)	6820.2 (<0.1)	104Rh (180.9)
6645.2	128I	6720.0	108Ag	6822.4	172Yb
6645.3 (20.6)	54Cr (8884.1)	6720.4 (4.0)	61Ni (7819.6)	6824.6 (<0.1)	124Te (602.4)
6646.9 (0.8)	80Br (37.1)	6724.8 (0.9)	86Rb (557.0)	6824.7 (0.6)	114Cd (1660.3)
6647.0 (0.8)	90Y (776.7)	6726.6 (0.1)	104Rh (180.9)	6826.1	128I
6652.2 (0.3)	106Pd (513.0)	6728.1 (0.1)	96Mo (778.3)	6826.6 (0.9)	164Dy (73.4)
6653.4 (<0.1)	168Er (6228.8)	6728.1	122Sb	6826.8 (2.9)	55Fe (9297.8)
6654.2 (<0.1)	162Dy (185.0)	6731.5 (100.0)	205Pb (6731.5)	6827.2 (1.3)	75Se (286.6)
6655.0 (36.1)	67Zn (6960.0)	6735.4 (0.4)	106Pd (513.0)	6827.3 (0.3)	80Br (37.1)
6655.7 (0.9)	204Tl (139.9)	6735.5 (0.6)	86Rb (557.0)	6830.0 (0.6)	76As (165.0)
6656.3 (<0.1)	116In (273.0)	6738.0 (1.6)	62Ni (1172.8)	6830.0	118Sn
6657.5 (<0.1)	104Rh (180.9)	6740.1 (<0.1)	98Mo (787.4)	6831.4 (5.8)	86Rb (557.0)
6658.5 (0.9)	70Ga (508.4)	6740.5	128I	6832.7	94Nb
6659.0 (0.6)	76As (165.0)	6742.0	180Hf	6833.7 (2.3)	48Ti (983.7)
6661.0 (6.9)	88Sr (1836.1)	6743.8 (<0.1)	124Te (602.4)	6838.2 (100.0)	63Ni (6838.2)
6661.0	108Ag	6743.9 (<0.1)	96Mo (778.3)	6838.4 (0.6)	80Br (37.1)
6666.3	128I	6744.0 (<0.1)	132Xe (687.5)	6840.0 (16.9)	46Sc (227.8)
6668.6 (1.0)	80Br (37.1)	6744.2 (0.7)	80Br (37.1)	6840.0 (0.3)	58Fe (810.5)
6671.0 (0.9)	80Br (37.1)	6744.6	122Sb	6840.0 (7.8)	62Ni (1172.8)
6671.6 (1.2)	158Gd (181.9)	6748.0 (1.7)	62Ni (1172.8)	6841.4 (0.3)	75Se (286.6)
6673.0 (0.8)	96Mo (778.3)	6749.1 (1.2)	80Br (37.1)	6841.6 (<0.1)	74Ge (595.7)
6674.0 (8.9)	64Cu (7916.0)	6750.0 (15.1)	158Gd (181.9)	6842.5	169Yb
6676.0 (0.7)	52V (125.1)	6752.0 (<0.1)	61Ni (7819.6)	6842.7 (0.9)	88Sr (1836.1)
6676.0 (1.2)	152Sm (3751.0)	6758.0 (9.4)	50Ti (1555.0)	6857.0 (0.6)	76As (165.0)
6676.7	128I	6758.6 (0.2)	156Gd (89.0)	6865.9	172Yb
6677.0 (65.4)	168Er (6228.8)	6759.0	108Ag	6866.2 (100.0)	79Se (6866.2)
6677.3 (<0.1)	124Te (602.4)	6759.4 (0.9)	86Rb (557.0)	6866.2 (0.2)	80Br (37.1)
6677.4 (0.3)	190Os (186.7)	6759.8 (<0.1)	96Mo (778.3)	6867.0 (66.1)	67Zn (6960.0)
6678.3 (0.2)	164Dy (73.4)	6760.7 (<0.1)	98Mo (787.4)	6869.4 (1.2)	78Se (613.8)
6680.0 (39.8)	66Cu (185.9)	6761.7 (33.7)	49Ti (1381.5)	6871.3 (0.6)	80Br (37.1)
6682.1 (1.0)	74Ge (595.7)	6762.6 (0.1)	104Rh (180.9)	6873.0 (0.6)	78Se (613.8)
6682.1 (10.0)	101Ru (6271.4)	6765.9 (0.2)	156Gd (89.0)	6873.9 (56.4)	52V (125.1)
6682.2	128I	6767.5 (<0.1)	96Mo (778.3)	6874.0 (2.0)	46Sc (227.8)
6682.6 (1.7)	63Ni (6838.2)	6768.4 (2.4)	68Zn (1077.4)	6875.8 (2.4)	168Er (6228.8)
6683.0 (<0.1)	156Gd (89.0)	6773.7 (0.6)	68Zn (1077.4)	6876.8 (40.5)	60Co (229.8)
6685.0	122Sb	6775.8 (1.3)	168Er (6228.8)	6878.9 (<0.1)	98Mo (787.4)
6685.6 (0.2)	188Os (155.0)	6776.6 (0.4)	114In (311.7)	6880.0 (1.2)	66Cu (185.9)
6686.0 (<0.1)	148Sm (550.0)	6778.2 (0.3)	80Br (37.1)	6880.7 (6.7)	84Kr (881.8)
6689.0	108Ag	6775.0 (0.6)	76As (165.0)	6881.0 (0.4)	76As (165.0)
6689.6 (0.9)	80Br (37.1)	6779.8	169Yb	6881.2 (0.1)	74Ge (595.7)
6691.0 (1.1)	76As (165.0)	6782.4 (<0.1)	177Lu (150.4)	6883.5 (0.4)	98Mo (787.4)
6691.5	128I	6783.0 (0.2)	196Pt (356.1)	6885.3 (5.2)	88Sr (1836.1)
6692.0 (0.5)	46Sc (227.8)	6783.3 (19.0)	56Mn (26.6)	6886.0 (4.8)	152Sm (3751.0)
6694.2 (1.1)	80Br (37.1)	6784.0 (0.6)	76As (165.0)	6890.0 (4.3)	54Cr (8884.1)
6694.4 (0.3)	74Ge (595.7)	6785.0 (4.7)	50Ti (1555.0)	6892.4 (0.3)	164Dy (73.4)
6696.6	128I	6785.4 (<0.1)	124Te (602.4)	6895.0 (<0.1)	124Te (602.4)
6697.8 (1.0)	86Rb (557.0)	6785.6 (2.2)	104Rh (180.9)	6895.6 (0.6)	80Br (37.1)
6698.0 (<0.1)	134Cs (116.4)	6786.8 (0.3)	80Br (37.1)	6895.7 (0.6)	77Se (238.9)
6698.3 (<0.1)	114In (311.7)	6787.0 (<0.1)	96Mo (778.3)	6896.1	94Nb
6699.2 (1.2)	88Sr (1836.1)	6787.1 (0.9)	74Ge (595.7)	6896.1 (0.2)	162Dy (185.0)
6701.7 (0.7)	80Br (37.1)	6791.0 (7.5)	66Cu (85.9)	6902.3 (<0.1)	104Rh (180.9)
6701.9 (1.3)	68Zn (1077.4)	6793.8 (4.1)	202Hg (439.5)	6902.6 (<0.1)	124Te (602.4)
6704.0	108Ag	6798.6	128I	6903.1	172Yb
6705.0 (0.4)	76As (165.0)	6801.9 (<0.1)	104Rh (180.9)	6903.8 (0.7)	188Os (155.0)
6705.2 (<0.1)	96Mo (778.3)	6802.0	108Ag	6905.0 (<0.1)	124Te (602.4)
6705.2 (0.6)	80Br (37.1)	6803.5 (3.1)	84Kr (881.8)	6905.4 (1.2)	78Se (613.8)
6705.8 (40.5)	60Co (229.8)	6803.6 (2.5)	177Lu (150.4)	6908.3 (2.4)	48Ti (983.7)
6706.2 (0.9)	52V (125.1)	6804.8 (<0.1)	74Ge (595.7)	6910.6 (4.6)	68Zn (1077.4)
6706.9 (<0.1)	156Gd (89.0)	6806.2	122Sb	6913.6 (0.8)	158Gd (181.9)
6707.4 (0.3)	136Ba (818.6)	6806.2	128I	6914.2 (<0.1)	150Sm (334.0)
6707.6 (24.0)	71Ge (499.8)	6807.0	108Ag	6916.8 (19.8)	71Ge (499.8)
6708.0 (0.2)	148Sm (550.0)	6808.0 (<0.1)	124Te (602.4)	6917.7	94Nb
6710.5 (<0.1)	51Cr (749.0)	6810.8 (1.3)	78Se (613.8)	6919.4 (6.8)	96Mo (778.3)
6714.0 (0.4)	48Ti (983.7)	6811.0 (20.5)	76As (165.0)	6926.7 (0.6)	74Ge (595.7)
6714.6 (<0.1)	134Cs (116.4)	6812.0 (0.2)	106Pd (513.0)	6927.0 (7.0)	76As (165.0)
6715.5 (<0.1)	96Mo (778.3)	6812.7 (0.3)	88Sr (1836.1)	6928.7 (13.0)	56Mn (26.6)
6716.0 (0.6)	76As (165.0)	6814.3 (0.2)	104Rh (180.9)	6929.0	108Ag

Table I. CAPTURE γ 's - energy sorted (cont.)

By keV ($\times 10^3$)	Nucleus (Strongest γ)	By keV ($\times 10^3$)	Nucleus (Strongest γ)	By keV ($\times 10^3$)	Nucleus (Strongest γ)
6931.7 (2.6)	84Kr (881.8)	7073.0 (2.0)	62Ni (1172.8)	7224.2 (1.0)	74Ge (595.7)
6934.0	108Ag	7074.0	180Hf	7229.3	84Nb
6934.5 (<0.1)	96Mo (778.3)	7075.1 (<0.1)	106Pd (513.0)	7231.7 (1.2)	80Br (37.1)
6938.0 (<0.1)	124Te (602.4)	7076.0	108Ag	7232.9 (1.7)	196Pt (356.1)
6942.8 (6.6)	88Sr (1836.1)	7078.0 (4.8)	62Ni (1172.8)	7233.0 (1.7)	46Sc (227.8)
6943.0 (1.1)	86Rb (557.0)	7078.4 (3.5)	80Br (37.1)	7233.1 (<0.1)	162Dy (185.0)
6948.0 (0.1)	104Rh (180.9)	7081.8 (<0.1)	114Cd (1660.3)	7234.3 (3.2)	1900s (186.7)
6948.1 (3.0)	60Co (229.8)	7083.3 (0.1)	114In (311.7)	7237.7 (0.2)	68Zn (1077.4)
6949.8 (4.8)	168Er (6228.8)	7085.0 (40.0)	47Ti (159.0)	7239.6 (3.0)	48Ti (983.7)
6952.0 (<0.1)	76As (165.0)	7093.3 (1.7)	74Ge (595.7)	7241.5 (0.6)	77Se (238.8)
6956.6 (0.9)	52V (125.1)	7099.7 (16.9)	54Cr (8884.1)	7242.0 (2.2)	76As (165.0)
6959.9 (0.1)	158Gd (181.9)	7102.7 (0.2)	124Te (502.4)	7243.8 (68.3)	56Mn (26.6)
6960.0 (100.0)	67Zn (6960.0)	7108.0 (1.1)	51V (1609.3)	7244.1 (<0.1)	124Te (602.4)
6960.7 (15.9)	58Fe (810.5)	7110.8 (100.0)	146Nd (7110.8)	7246.3 (3.0)	55Fe (9297.8)
6961.0 (0.7)	48Sc (227.8)	7112.0 (14.1)	65Zn (7863.3)	7248.0 (0.7)	51V (1609.3)
6961.0 (0.3)	148Sm (550.0)	7113.5 (1.6)	78Se (613.8)	7252.0 (16.3)	64Cu (7916.0)
6963.3 (0.2)	70Ga (508.4)	7115.6	94Nb	7252.9 (<0.1)	92Zr (934.5)
6965.0 (3.2)	152Sm (3751.0)	7116.4 (0.2)	74Ge (595.7)	7253.6 (<0.1)	124Te (602.4)
6967.0 (0.3)	76As (165.0)	7117.0 (6.7)	46Sc (227.8)	7254.8 (0.8)	78Se (613.8)
6972.0 (<0.1)	124Te (602.4)	7122.2 (0.2)	106Pd (513.0)	7260.2 (<0.1)	156Gd (89.0)
6974.0	108Ag	7126.6 (1.1)	80Br (37.1)	7261.2 (1.3)	86Rb (557.0)
6974.9 (0.8)	78Se (613.8)	7130.0 (0.2)	76As (165.0)	7262.2 (17.3)	58Fe (810.5)
6975.4 (0.3)	74Ge (595.7)	7130.8 (0.4)	75Se (286.6)	7262.3 (3.0)	74Ge (595.7)
6977.0 (1.8)	76As (165.0)	7131.5 (0.3)	162Dy (185.0)	7265.0	118Sn
6978.0 (0.8)	80Br (37.1)	7132.0 (4.8)	51V (1609.3)	7267.0	108Ag
6978.2 (0.2)	136Ba (818.6)	7132.5 (0.5)	98Mo (787.4)	7270.3 (19.4)	56Mn (26.6)
6978.2	172Yb	7139.2 (<0.1)	92Zr (934.5)	7272.6 (<0.1)	124Te (602.4)
6982.0	108Ag	7147.4 (0.3)	70Ga (508.4)	7273.0 (0.1)	74Ge (595.7)
6982.3 (0.2)	162Dy (185.0)	7149.0 (5.6)	51V (1609.3)	7277.0	118Sn
6983.0 (<0.1)	148Sm (550.0)	7149.4 (0.4)	74Ge (595.7)	7277.3 (0.2)	156Gd (89.0)
6983.9 (0.4)	80Br (37.1)	7154.8 (0.1)	80Br (37.1)	7278.5 (16.9)	57Fe (7631.6)
6984.0 (<0.1)	68Zn (1077.4)	7159.7 (33.1)	56Mn (26.6)	7284.0 (4.3)	76As (165.0)
6984.9 (14.3)	60Co (229.8)	7159.8 (0.3)	88Sr (1836.1)	7288.0 (7.6)	52V (125.1)
6986.1 (<0.1)	106Pd (513.0)	7160.2 (0.2)	106Pd (513.0)	7288.1 (0.2)	156Gd (89.0)
6987.0 (<0.1)	74Ge (595.7)	7160.8 (0.3)	80Br (37.1)	7291.5 (12.8)	52V (125.1)
6988.0 (14.1)	64Cu (7916.0)	7162.7 (71.5)	52V (125.1)	7294.6 (<0.1)	156Gd (89.0)
6995.9 (0.1)	114Cd (1660.3)	7163.0 (0.9)	58Fe (810.5)	7300.0 (15.3)	184W (111.2)
6998.0	118Sn	7163.6 (0.3)	74Ge (595.7)	7301.0 (0.3)	84Kr (881.8)
6999.3 (0.9)	104Rh (180.9)	7164.0 (0.6)	76As (165.0)	7304.7 (<0.1)	162Dy (185.0)
7003.6 (3.5)	70Ga (508.4)	7164.3 (0.1)	61Ni (7819.6)	7307.0 (34.4)	64Cu (7916.0)
7007.3 (2.3)	75Se (286.6)	7165.4 (0.1)	80Br (37.1)	7309.1 (1.1)	60Ni (11389.9)
7013.3 (0.4)	68Zn (1077.4)	7168.0 (1.5)	64Cu (7916.0)	7305.9 (0.5)	78Se (613.8)
7018.0 (50.0)	116Sn (1293.5)	7168.3 (0.4)	80Br (37.1)	7310.5 (28.5)	52V (125.1)
7021.0 (14.5)	76As (165.0)	7168.5 (<0.1)	156Gd (89.0)	7314.4 (4.2)	202Hg (439.5)
7021.8 (0.6)	74Ge (595.7)	7169.0 (15.7)	48Ti (983.7)	7319.1 (<0.1)	178Hf (213.4)
7025.0 (1.6)	152Sm (3751.0)	7170.1	94Nb	7326.0 (6.3)	62Ni (1172.8)
7026.4 (0.7)	136Ba (818.6)	7172.0 (16.8)	152Sm (3751.0)	7330.0 (<0.1)	76As (165.0)
7031.7 (3.0)	80Br (37.1)	7173.2 (0.4)	75Se (286.6)	7331.0 (0.9)	46Sc (227.8)
7035.6 (0.6)	1900s (186.7)	7176.0 (10.0)	64Cu (7916.0)	7332.0 (31.7)	47Ti (159.0)
7036.0 (2.2)	64Cu (7916.0)	7176.2 (<0.1)	96Mo (778.3)	7334.4 (0.6)	124Te (602.4)
7038.7 (1.2)	56Mn (26.6)	7176.8 (0.5)	138Ba (1435.6)	7337.1 (0.5)	48Ti (983.7)
7043.9 (1.2)	48Ti (983.7)	7178.0 (8.8)	51V (1609.3)	7338.0 (1.8)	62Ni (1172.8)
7044.7 (0.6)	162Dy (185.0)	7179.0 (<0.1)	76As (165.0)	7338.0 (47.0)	116Sn (1293.5)
7048.0 (0.4)	76As (165.0)	7179.2 (14.2)	77Se (238.9)	7343.0 (0.2)	80Br (37.1)
7048.8 (0.6)	78Se (613.8)	7179.9 (<0.1)	114Cd (1660.3)	7345.8 (5.8)	86Rb (557.0)
7052.0 (1.0)	46Sc (227.8)	7180.7 (0.6)	86Rb (557.0)	7356.9 (1.3)	1880s (155.0)
7052.1 (0.2)	114In (311.7)	7188.0	108Ag	7362.0 (17.1)	51Cr (595.7)
7052.4 (1.1)	60Ni (11389.9)	7188.4 (2.7)	68Zn (1077.4)	7363.0 (0.2)	55Fe (9297.8)
7055.6 (7.6)	60Co (229.8)	7189.0	94Nb	7366.0 (0.3)	46Sc (227.8)
7057.8 (61.1)	56Mn (26.6)	7201.7 (<0.1)	114Cd (1660.3)	7367.2 (1.2)	156Gd (89.0)
7058.4 (<0.1)	96Mo (778.3)	7202.0 (5.2)	60Co (229.8)	7367.9 (10.7)	60Ni (11389.9)
7061.7 (0.1)	106Pd (513.0)	7207.0 (0.4)	76As (165.0)	7369.1 (0.6)	74Ge (595.7)
7062.0	108Ag	7208.3 (2.9)	78Se (613.8)	7375.4 (21.3)	53Cr (7939.6)
7064.0 (5.5)	76As (165.0)	7208.8 (<0.1)	98Mo (787.4)	7381.6 (0.4)	156Gd (89.0)
7064.2 (1.3)	75Se (286.6)	7211.8 (1.6)	86Rb (557.0)	7385.0 (0.2)	55Fe (9297.8)
7066.0 (5.8)	66Cu (185.9)	7213.0 (0.7)	150Sm (334.0)	7386.6 (<0.1)	124Te (602.4)
7069.1 (1.6)	52V (125.1)	7213.7 (18.1)	60Co (229.8)	7398.6 (0.8)	75Se (286.6)
7069.2 (2.2)	60Ni (11389.9)	7215.0 (3.2)	152Sm (3751.0)	7403.0 (<0.1)	132Xe (667.5)
7069.2 (12.2)	65Zn (7863.3)	7215.9 (<0.1)	156Gd (89.0)	7406.3 (0.3)	156Gd (89.0)
7070.7 (0.5)	80Br (37.1)	7222.8 (2.2)	168Er (6228.8)	7411.2 (61.3)	184W (111.2)

Table I. CAPTURE γ 's - energy sorted (cont.)

E γ keV (χ ly)	Nucleus (Strongest γ)	E γ keV (χ ly)	Nucleus (Strongest γ)	E γ keV (χ ly)	Nucleus (Strongest γ)
7411.3 (0.6)	164Dy (73.4)	7677.9 (0.7)	114Cd (1660.3)	8259.6 (0.8)	48Ti (983.7)
7414.7 (10.7)	71Ge (499.8)	7679.0 (<0.1)	124Te (602.4)	8261.0 (5.7)	50Ti (1555.0)
7418.0 (22.2)	77Se (238.9)	7687.0 (<0.1)	124Te (602.4)	8263.2 (8.6)	60Ni (1389.5)
7423.3 (3.6)	80Br (37.1)	7691.3 (1.8)	168Er (6228.8)	8267.0 (0.6)	132Xe (667.5)
7427.5 (0.9)	48Ti (983.7)	7694.0 (<0.1)	124Te (602.4)	8269.0 (11.0)	116Sn (1293.5)
7433.6 (0.7)	60Co (229.8)	7695.0 (3.0)	59Ni (8999.3)	8288.2 (1.8)	136Ba (718.6)
7436.0 (2.6)	62Ni (1172.8)	7701.2 (<0.1)	92Zr (934.5)	8296.0 (1.1)	62Ni (1172.8)
7437.0 (11.8)	51V (1609.3)	7703.4 (5.5)	62Ni (1172.8)	8311.7 (14.8)	64Ni (9655.9)
7438.0 (0.6)	46Sc (227.8)	7733.4 (5.7)	78Se (613.8)	8314.7 (2.1)	68Zn (1077.4)
7441.7 (1.2)	75Se (286.6)	7734.2 (46.7)	75Se (286.6)	8315.0 (5.9)	46Sc (227.8)
7446.3 (0.2)	68Zn (1077.4)	7738.7 (0.4)	114Cd (1660.3)	8331.2 (0.2)	106Pd (513.0)
7447.0 (1.6)	152Sm (3751.0)	7743.7 (0.8)	78Se (613.8)	8352.0 (2.9)	51V (1609.3)
7450.0 (76.0)	116Sn (1293.5)	7749.9 (0.5)	84Kr (881.8)	8369.7 (17.0)	58Fe (810.5)
7455.3 (0.7)	86Rb (557.0)	7753.9 (13.0)	202Hg (439.5)	8375.8 (1.3)	96Mo (778.3)
7476.0 (0.1)	106Pd (513.0)	7756.0 (5.2)	64Cu (7916.0)	8378.9 (2.3)	88Sr (1836.1)
7477.3 (0.7)	88Sr (1836.1)	7764.4 (0.5)	60Ni (11389.5)	8387.2 (1.1)	48Ti (983.7)
7478.6 (0.4)	84Kr (881.8)	7771.0 (<0.1)	124Te (602.4)	8404.4 (0.4)	48Ti (983.7)
7485.8 (0.2)	156Gd (89.0)	7776.1 (0.2)	86Rb (557.0)	8423.8 (0.9)	84Kr (881.8)
7489.0 (1.5)	46Sc (227.8)	7779.5 (<0.1)	68Zn (1077.4)	8433.6 (<0.1)	106Pd (513.0)
7490.8 (14.3)	60Co (229.8)	7792.8 (2.5)	1900s (186.7)	8446.3 (<0.1)	156Gd (89.0)
7490.8 (1.4)	78Se (613.8)	7799.4 (3.9)	60Ni (11389.5)	8470.0 (2.2)	46Sc (227.8)
7504.1 (0.9)	74Ge (595.7)	7815.3 (0.2)	78Se (613.8)	8484.0 (32.5)	51Cr (749.0)
7507.3 (4.8)	168Er (6228.8)	7817.0 (23.9)	59Ni (8999.3)	8484.2 (0.6)	114Cd (1660.3)
7511.9 (0.8)	80Br (37.1)	7819.6 (100.0)	61Ni (7819.6)	8501.4 (3.1)	78Se (613.8)
7516.6 (11.2)	60Ni (11389.5)	7820.3 (96.2)	61Ni (7819.6)	8502.5 (0.9)	74Ge (595.7)
7526.6 (<0.1)	136Ba (818.6)	7820.5 (0.3)	84Kr (881.8)	8512.1 (46.3)	51Cr (749.0)
7528.1 (1.5)	96Mo (778.3)	7834.0 (0.3)	114Cd (1660.3)	8532.0 (14.2)	46Sc (227.8)
7528.4 (8.0)	88Sr (1836.1)	7834.8 (2.3)	1880s (155.0)	8533.6 (48.5)	59Ni (8999.3)
7528.9 (0.1)	74Ge (595.7)	7844.4 (2.1)	48Ti (983.7)	8535.0 (0.4)	156Gd (89.0)
7532.6 (<0.1)	178Hf (213.4)	7854.6 (0.2)	98Mo (787.4)	8545.0 (6.1)	62Ni (1172.8)
7534.0 (0.5)	51V (1609.3)	7857.4 (<0.1)	158Gd (181.9)	8614.1 (0.2)	138Ba (1435.6)
7536.7 (59.7)	61Ni (7819.6)	7859.3 (1.7)	68Zn (1077.4)	8617.0 (0.7)	46Sc (227.8)
7537.0 (2.2)	62Ni (1172.8)	7863.3 (100.0)	65Zn (7863.3)	8618.9 (<0.1)	84Kr (881.8)
7537.3 (56.2)	61Ni (7819.6)	7892.0 (0.8)	152Sm (3751.0)	8634.9 (<0.1)	92Zr (934.5)
7544.0 (1.3)	86Rb (557.0)	7892.5 (0.5)	80Br (37.1)	8650.7 (1.8)	86Rb (557.0)
7554.0 (5.3)	87Sr (8039.8)	7907.4 (<0.1)	98Mo (787.4)	8736.4 (1.2)	74Ge (595.7)
7554.3 (0.2)	136Ba (818.6)	7908.0 (<0.1)	114Cd (1660.3)	8738.7 (<0.1)	78Se (613.8)
7558.0	118Sn	7909.2 (0.3)	75Se (286.6)	8760.0 (2.5)	46Sc (227.8)
7561.5 (0.2)	80Br (37.1)	7916.0 (100.0)	64Cu (7916.0)	8822.5 (0.2)	124Te (602.4)
7565.6 (0.5)	196Pt (356.1)	7920.9 (1.2)	196Pt (356.1)	8884.1 (100.0)	54Cr (8884.1)
7571.0 (5.9)	64Cu (7916.0)	7925.0 (1.4)	46Sc (227.8)	8886.4 (18.6)	55Fe (9297.8)
7577.6 (8.1)	80Br (37.1)	7926.5 (<0.1)	162Dy (185.0)	8997.7 (<0.1)	74Ge (595.7)
7580.8 (0.4)	164Dy (73.4)	7939.6 (100.0)	53Cr (7939.6)	8997.9 (0.4)	78Se (613.8)
7591.2 (3.2)	48Ti (983.7)	7942.1	172Yb	8999.3 (100.0)	59Ni (8999.3)
7592.0 (1.4)	148Sm (550.0)	7959.2 (0.8)	78Se (613.8)	9042.8 (0.3)	114Cd (1660.3)
7598.6 (0.5)	78Se (613.8)	7989.6 (1.3)	1880s (155.0)	9049.8 (<0.1)	106Pd (513.0)
7605.9 (0.9)	1900s (186.7)	7993.5 (1.9)	60Ni (11389.5)	9102.2 (42.9)	60Ni (11389.5)
7611.0 (0.7)	80Br (37.1)	7996.3 (<0.1)	106Pd (513.0)	9106.5 (2.9)	136Ba (818.6)
7620.8 (0.4)	80Br (37.1)	8002.2 (<0.1)	74Ge (595.7)	9120.1 (29.4)	68Zn (1077.4)
7623.9 (10.8)	86Rb (557.0)	8002.6 (<0.1)	106Pd (513.0)	9188.1 (10.0)	78Se (613.8)
7629.0 (0.2)	106Pd (513.0)	8009.7 (5.4)	48Ti (983.7)	9205.1 (6.3)	48Ti (983.7)
7629.5 (0.3)	74Ge (595.7)	8021.3	172Yb	9227.5 (5.7)	60Ni (11389.5)
7631.6 (100.0)	57Fe (7631.6)	8029.2 (<0.1)	200Hg (367.9)	9233.7 (3.3)	58Fe (810.5)
7634.0	118Sn	8034.5 (1.3)	74Ge (595.7)	9238.0 (3.9)	51V (1609.3)
7635.0 (<0.1)	132Xe (667.5)	8039.8 (100.0)	87Sr (8039.8)	9297.8 (100.0)	55Fe (9297.8)
7635.9 (0.4)	80Br (37.1)	8069.3 (16.6)	60Ni (11389.5)	9318.0	118Sn
7636.0 (8.3)	46Sc (227.8)	8093.8 (1.6)	86Rb (557.0)	9331.6 (0.3)	48Ti (983.7)
7637.0 (55.6)	64Cu (7916.0)	8094.0	118Sn	9382.0 (1.9)	50Ti (1555.0)
7645.6 (81.2)	57Fe (7631.6)	8100.1 (0.3)	124Te (602.4)	9422.3 (6.6)	62Ni (1172.8)
7651.0 (0.8)	70Ga (508.4)	8112.9 (<0.1)	162Dy (185.0)	9424.9 (<0.1)	124Te (602.4)
7652.2 (2.9)	60Ni (11389.5)	8119.9 (8.9)	59Ni (8999.3)	9442.0 (6.9)	51V (1609.3)
7655.4 (0.2)	96Mo (778.3)	8132.0 (7.1)	46Sc (227.8)	9562.0 (22.0)	116Sn (1293.5)
7657.8 (0.8)	78Se (613.8)	8136.0 (16.8)	152Sm (3751.0)	9606.0 (<0.1)	74Ge (595.7)
7660.7 (<0.1)	200Hg (367.9)	8160.6 (2.7)	78Se (613.8)	9636.4 (0.3)	84Kr (881.8)
7664.9 (<0.1)	74Ge (595.7)	8161.5 (0.4)	86Rb (557.0)	9655.9 (100.0)	64Ni (9655.9)
7666.0 (16.5)	51V (1609.3)	8168.3 (3.1)	78Se (613.8)	9718.8 (32.5)	54Cr (8884.1)
7666.0 (<0.1)	124Te (602.4)	8174.7 (<0.1)	84Kr (881.8)	9882.8 (17.4)	78Se (613.8)
7672.2 (0.6)	86Rb (557.0)	8175.0 (29.1)	46Sc (227.8)	10044.1 (4.1)	58Fe (810.5)
7673.0 (1.3)	46Sc (227.8)	8192.7 (9.5)	60Ni (11389.5)	10053.6 (39.2)	60Ni (11389.5)
7674.0 (3.0)	51V (1609.3)	8200.5 (1.3)	60Ni (11389.5)	10496.5 (1.7)	78Se (613.8)

Table II. CAPTURE γ 's - nuclide sorted

E _γ (keV) (X ₁ Y)	E _γ (keV) (X ₁ Y)	E _γ (keV) (X ₁ Y)	E _γ (keV) (X ₁ Y)	E _γ (keV) (X ₁ Y)	E _γ (keV) (X ₁ Y)
45Ca					
174.3 (100.0)	1574.9 (7.9)	1821.0 (9.7)	8009.7 (5.4)	2001.1 (2.6)	7666.0 (16.5)
348.7 (4.0)	1618.0 (5.9)	3682.0 (3.0)	8259.6 (0.8)	2013.3 (1.0)	7674.0 (3.0)
465.0 (6.1)	1687.7 (2.4)	3903.0 (2.0)	8387.2 (1.1)	2052.9 (0.1)	8352.0 (2.9)
492.5 (0.1)	1692.9 (9.8)	3921.0 (10.0)	8404.4 (0.4)	2080.1 (0.4)	9238.0 (3.9)
576.4 (0.8)	1753.6 (2.8)	3961.0 (2.0)	9205.1 (6.3)	2113.4 (1.4)	9442.0 (6.9)
814.3 (5.6)	1814.2 (5.1)	4359.0 (2.3)	9331.6 (0.3)	2141.0 (<0.1)	
942.7 (0.3)	1830.2 (2.4)	4472.0 (12.7)	10642.6 (1.8)	2141.3 (0.4)	
957.8 (1.2)	1857.5 (7.9)	4625.0 (2.7)		2159.0 (<0.1)	
1026.0 (0.4)	1870.1 (2.0)	4753.0 (1.0)	49Ca	2279.2 (0.4)	
1169.2 (6.1)	2004.5 (7.1)	4962.0 (15.3)	2023.2 (33.3)	2348.9 (2.9)	
1260.6 (22.5)	2129.9 (1.6)	5200.0 (12.0)	3123.0 (33.3)	2376.7 (6.8)	
1434.8 (11.8)	2243.3 (2.4)	5330.0 (9.3)	5148.6 (100.0)	2579.1 (<0.1)	
1710.1 (4.5)	2329.6 (3.1)	5700.0 (3.0)		2598.9 (0.1)	
1725.7 (51.7)	2405.0 (7.9)	6088.0 (14.3)	49Ti	2890.9 (0.2)	
1900.0 (15.6)	2635.3 (11.8)	6327.0 (16.3)	252.1 (<0.1)	2990.0 (1.3)	
1938.1 (0.6)	3011.9 (3.9)	7085.0 (40.0)	341.9 (52.8)	3017.3 (1.4)	
1983.7 (1.1)	3049.8 (2.4)	7332.0 (31.7)	361.7 (0.3)	3021.3 (1.9)	
2075.1 (8.3)	4975.0 (7.9)		740.4 (0.6)	3207.5 (2.0)	
2176.0 (<0.1)	5267.0 (4.7)	48Ti	1121.2 (1.0)	3282.8 (2.0)	
2403.3 (1.1)	5286.0 (1.6)	423.3 (2.2)	1381.5 (100.0)	3276.8 (0.2)	
2403.3 (1.1)	5744.0 (3.3)	810.5 (1.2)	1498.3 (3.8)	3284.2 (0.2)	
2415.2 (2.5)	5781.0 (1.5)	898.9 (0.3)	1585.3 (8.0)	3290.8 (0.7)	
2608.3 (1.2)	5804.0 (0.3)	927.9 (1.9)	1560.6 (0.4)	3305.8 (<0.1)	
2667.7 (4.3)	5897.0 (7.9)	944.4 (7.1)	1782.0 (4.6)	3512.2 (0.8)	
2716.0 (1.8)	5926.0 (0.7)	983.7 (100.0)	1793.5 (2.0)	3593.4 (1.1)	
2799.1 (3.8)	5980.0 (1.2)	1038.1 (0.8)	1846.7 (0.6)	3764.4 (0.3)	
2842.3 (0.8)	6055.0 (7.1)	1046.4 (<0.1)	1881.9 (0.4)	3859.8 (0.9)	
2947.1 (0.3)	6097.0 (1.1)	1091.1 (1.2)	2005.5 (1.3)	3898.9 (0.3)	
3066.9 (1.5)	6170.0 (7.9)	1311.9 (35.4)	2086.8 (<0.1)	4020.5 (0.7)	
3099.7 (1.0)	6193.0 (1.3)	1437.2 (22.2)	2840.5 (<0.1)	4057.4 (0.2)	
3180.8 (0.8)	6203.0 (0.9)	1478.8 (1.1)	2943.5 (0.8)	4133.1 (0.1)	
3243.6 (3.0)	6300.0 (2.6)	1816.4 (0.2)	3027.5 (1.7)	4400.1 (0.3)	
3565.0 (0.3)	6318.0 (8.7)	1906.8 (0.7)	3083.5 (<0.1)	4491.5 (0.8)	
3576.8 (1.9)	6350.0 (0.7)	1968.8 (1.2)	3474.8 (1.3)	4625.0 (1.4)	
3609.3 (0.6)	6430.0 (0.4)	2036.9 (6.9)	3553.2 (0.4)	4833.2 (0.3)	
3631.9 (1.0)	6457.0 (1.9)	2092.2 (1.4)	3633.5 (0.2)	4891.5 (0.3)	
3996.2 (10.7)	6506.0 (1.5)	2161.8 (6.9)	3709.8 (0.4)	4971.6 (0.5)	
4173.3 (2.5)	6537.0 (0.8)	2240.6 (6.3)	3923.0 (1.1)	5126.4 (0.3)	
4572.8 (4.2)	6557.0 (7.1)	2375.0 (6.2)	4355.8 (0.3)	5151.7 (0.2)	
5165.7 (11.0)	6644.0 (2.7)	2634.4 (9.6)	4673.4 (0.4)	5206.1 (0.3)	
5515.0 (61.0)	6692.0 (0.5)	3091.4 (2.9)	4714.9 (0.8)	5221.9 (2.9)	
5980.1 (13.8)	6717.0 (5.5)	3344.7 (1.2)	4881.0 (4.4)	5491.4 (2.2)	
	6840.0 (16.9)	3404.0 (3.4)	4966.8 (2.5)	5494.5 (2.5)	
	6874.0 (2.0)	3409.6 (2.7)	5639.0 (0.2)	5990.0 (0.3)	
	6961.0 (0.7)	3443.2 (0.8)	6417.3 (21.3)	6135.7 (9.5)	
	7052.0 (1.0)	3474.8 (<0.1)	6557.2 (3.7)	8206.3 (0.3)	
	7117.0 (6.7)	3590.5 (1.7)	6761.7 (33.7)	6370.9 (5.0)	
	7233.0 (1.7)	3597.2 (0.7)		6433.7 (0.1)	
	7331.0 (0.9)	3621.0 (0.4)	50Ti	6643.7 (0.3)	
	7366.0 (0.3)	3806.4 (1.2)	1120.0 (32.1)	6710.5 (<0.1)	
	7438.0 (0.6)	3841.3 (0.4)	1476.0 (<0.1)	7362.0 (17.1)	
	7489.0 (1.5)	3889.8 (1.3)	1555.0 (100.0)	8484.0 (32.5)	
	7636.0 (8.3)	4015.7 (0.9)	2212.0 (<0.1)	8512.1 (46.3)	
	7673.0 (1.3)	4072.1 (1.0)	2520.0 (<0.1)		
	7925.0 (1.4)	4084.0 (0.5)	2623.0 (<0.1)	51Ti	
	8132.0 (7.1)	4174.0 (1.3)	3273.0 (<0.1)	1186.6 (100.0)	
	8175.0 (29.1)	4269.0 (1.2)	3640.0 (<0.1)	2198.9 (41.5)	
	8315.0 (5.9)	4453.0 (0.6)	4988.0 (3.8)	2904.3 (12.7)	
	8470.0 (2.2)	4830.0 (0.5)	5554.0 (4.7)	3174.6 (19.9)	
	8532.0 (14.2)	4998.9 (0.9)	5745.0 (3.8)	3197.4 (23.7)	
	8617.0 (0.7)	5038.4 (0.3)	6055.0 (7.5)	3466.7 (69.5)	
	8760.0 (2.5)	5063.8 (0.5)	6758.0 (9.4)	4173.8 (51.6)	
		5086.2 (0.9)	6785.0 (4.7)	5206.1 (84.9)	
		5135.3 (0.5)	8261.0 (5.7)	6373.5 (10.1)	
		5221.2 (0.8)	9382.0 (1.9)		
		5264.6 (0.8)		51V	
		5310.9 (1.4)	51Cr	228.6 (0.2)	
		5509.5 (0.7)	28.0 (<0.1)	236.3 (0.7)	
		5583.7 (4.0)	603.3 (0.9)	320.1 (11.0)	
		5737.0 (1.6)	749.0 (100.0)	488.1 (1.2)	
		5823.5 (0.5)	826.9 (0.4)	685.9 (0.7)	
		6007.0 (1.0)	834.1 (0.4)	1090.3 (<0.1)	
		6134.4 (0.3)	845.2 (0.4)	1174.1 (8.7)	
		6222.7 (0.9)	857.1 (<0.1)	1493.2 (7.0)	
		6270.0 (0.7)	862.3 (<0.1)	1572.5 (0.3)	
		6468.3 (1.4)	888.2 (2.7)	1609.3 (100.0)	
		6480.8 (4.0)	913.2 (0.2)	1776.4 (23.0)	
		6714.0 (0.4)	928.2 (0.2)	1801.4 (4.6)	
		6833.7 (2.3)	990.4 (1.0)	1813.3 (20.0)	
		6908.3 (2.4)	1002.1 (0.2)	2004.8 (12.7)	
		7043.9 (1.2)	1106.5 (0.2)	2108.0 (1.1)	
		7169.0 (15.7)	1124.0 (1.6)	2132.0 (4.8)	
		7239.6 (3.0)	1149.4 (5.6)	2149.0 (5.6)	
		7337.1 (0.5)	1353.5 (0.2)	2178.0 (8.8)	
		7427.5 (0.9)	1537.2 (2.4)	2248.0 (0.7)	
		7591.2 (3.2)	1808.8 (0.2)	2473.0 (11.8)	
		7844.4 (2.1)	1899.3 (15.4)	2534.0 (0.5)	

Table II. CAPTURE γ 's - nuclide sorted (cont.)

52V (cont.)	55Cr	55Fe	55Ni	55Co	55Fe	55Ni	55Co
4076.9 (0.9)	4529.6 (<0.1)	3659.5 (0.1)	354.1 (3.4)	2522.8 (1.9)	3955.0 (0.3)		
4117.3 (7.6)	4752.0 (<0.1)	3791.2 (<0.1)	375.2 (4.6)	2926.9 (2.3)	3961.7 (0.3)		
4193.4 (0.6)	4847.0 (3.2)	3801.6 (0.2)	454.3 (16.1)	2937.6 (0.4)	3971.6 (1.3)		
4282.3 (1.0)	4872.3 (1.5)	3977.0 (0.6)	459.7 (8.9)	2953.8 (1.6)	3979.4 (2.1)		
4452.5 (5.8)	5086.0 (<0.1)	4044.1 (0.6)	486.5 (1.2)	2970.2 (2.8)	4001.1 (0.3)		
4486.9 (1.2)	5338.4 (<0.1)	4162.2 (0.8)	499.7 (1.4)	2976.4 (1.4)	4007.2 (0.3)		
4503.0 (0.9)	5706.6 (2.8)	4219.5 (0.1)	504.7 (3.4)	2991.4 (0.8)	4024.5 (0.6)		
4534.3 (2.8)	5793.5 (0.7)	4466.3 (0.3)	516.4 (0.6)	3003.4 (3.6)	4029.8 (0.9)		
4568.3 (2.0)	5858.6 (2.4)	4771.8 (23.6)	523.4 (1.1)	3021.7 (1.6)	4035.8 (0.9)		
4693.1 (1.3)	5999.5 (9.3)	4868.8 (0.4)	541.4 (2.2)	3034.1 (0.8)	4048.1 (0.5)		
4750.3 (1.2)	6282.7 (3.9)	5047.3 (0.2)	558.7 (2.9)	3047.5 (2.1)	4051.5 (0.7)		
4772.3 (1.7)	6326.1 (1.1)	5421.3 (3.8)	646.4 (1.9)	3058.2 (0.7)	4068.3 (<0.1)		
4883.7 (7.6)	6645.3 (20.6)	5586.1 (0.1)	716.4 (4.1)	3061.9 (0.8)	4076.0 (<0.1)		
4993.2 (4.7)	6890.0 (4.3)	5594.1 (0.1)	1140.0 (3.7)	3072.7 (0.2)	4084.5 (0.2)		
5142.2 (20.3)	7099.7 (16.9)	5680.4 (3.9)	1401.7 (4.9)	3076.6 (0.2)	4088.5 (0.2)		
5209.9 (25.0)	8884.1 (100.0)	6004.4 (24.1)	1705.4 (7.7)	3089.3 (0.2)	4103.7 (2.2)		
5267.8 (1.3)	9718.8 (32.5)	6246.4 (100.0)	1747.0 (18.4)	3098.1 (0.2)	4110.4 (1.9)		
5297.6 (0.9)			1876.2 (5.2)	3116.1 (1.2)	4127.7 (0.3)		
5445.7 (0.6)	104.8 (0.2)	412.0 (28.8)	1915.2 (13.9)	3124.7 (1.1)	4131.9 (0.3)		
5515.5 (41.3)	211.7 (0.1)	931.0 (3.2)	1987.6 (15.2)	3135.6 (1.4)	4173.9 (0.2)		
5551.4 (3.0)	241.9 (39.8)	1240.0 (1.5)	2016.5 (18.7)	3144.4 (1.4)	4187.2 (0.3)		
5562.0 (2.9)	324.0 (2.8)	1315.0 (1.2)	2023.9 (6.2)	3159.6 (0.6)	4191.6 (0.2)		
5577.6 (2.3)	351.7 (0.2)	1503.0 (1.1)	2044.7 (11.7)	3172.5 (0.9)	4199.2 (0.9)		
5751.9 (40.1)	518.7 (1.3)	1640.0 (2.6)	2063.2 (7.8)	3191.5 (0.4)	4223.5 (4.1)		
5891.7 (13.4)	565.9 (21.3)	1878.0 (1.2)	2090.4 (5.2)	3195.6 (0.6)	4230.6 (2.0)		
5944.5 (0.5)	575.6 (0.2)	1920.0 (3.2)	2122.5 (2.9)	3203.9 (1.8)	4251.7 (1.2)		
6037.1 (0.5)	651.1 (0.2)	2050.0 (3.0)	2138.5 (2.1)	3213.7 (0.3)	4268.5 (3.8)		
6084.7 (0.8)	840.9 (5.5)	2468.0 (5.9)	2147.3 (2.8)	3222.4 (<0.1)	4298.5 (0.2)		
6253.9 (0.5)	846.5 (0.6)	2618.0 (3.6)	2159.1 (1.4)	3231.6 (0.2)	4319.5 (0.6)		
6278.4 (0.9)	880.7 (1.2)	2670.0 (2.3)	2176.6 (6.0)	3242.5 (0.5)	4324.1 (0.8)		
6319.7 (1.5)	908.3 (14.3)	2791.0 (1.1)	2183.1 (2.7)	3247.3 (0.5)	4333.4 (0.3)		
6342.5 (0.9)	1086.7 (0.2)	2873.0 (1.7)	2191.9 (1.9)	3259.9 (1.0)	4349.0 (1.7)		
6372.6 (0.7)	1197.2 (1.1)	3005.0 (1.5)	2205.3 (5.2)	3263.8 (2.8)	4364.5 (<0.1)		
6464.8 (50.6)	1209.4 (0.2)	3028.0 (3.9)	2211.3 (9.0)	3266.8 (2.8)	4381.0 (3.0)		
6517.2 (86.6)	1232.2 (1.6)	3040.0 (0.8)	2241.8 (1.2)	3271.8 (1.8)	4398.7 (0.8)		
6555.6 (0.7)	1283.2 (0.2)	3380.0 (2.3)	2254.8 (1.2)	3288.2 (0.7)	4415.4 (1.1)		
6599.7 (1.0)	1298.7 (0.1)	3508.0 (1.5)	2261.0 (1.8)	3293.8 (0.7)	4423.7 (0.3)		
6625.9 (0.9)	1340.2 (0.2)	3555.0 (2.1)	2286.2 (1.2)	3301.4 (0.9)	4446.0 (4.3)		
6642.1 (0.7)	1343.6 (0.2)	3790.0 (2.7)	2294.8 (6.4)	3316.9 (0.4)	4469.8 (0.3)		

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_\gamma(\text{keV})$ ($\% \gamma$)	$E_\gamma(\text{keV})$ ($\% \gamma$)	$E_\gamma(\text{keV})$ ($\% \gamma$)	$E_\gamma(\text{keV})$ ($\% \gamma$)	$E_\gamma(\text{keV})$ ($\% \gamma$)	$E_\gamma(\text{keV})$ ($\% \gamma$)	
58Mn (cont.)						
5493.5 (0.2)	4218.8 (14.7)	4483.0 (0.8)	447.7 (34.8)	6705.8 (40.5)	4588.2 (0.8)	
5527.4 (37.3)	4275.9 (1.4)	4506.0 (0.6)	461.0 (5.7)	6876.2 (40.5)	4675.0 (1.5)	
5543.0 (0.9)	4324.7 (0.1)	4521.0 (1.2)	484.2 (8.1)	6948.1 (3.0)	4757.3 (0.4)	
5563.9 (0.2)	4367.6 (0.1)	4592.0 (0.5)	497.2 (23.8)	6984.9 (14.3)	5054.9 (0.3)	
5586.3 (0.9)	4406.8 (4.8)	4626.5 (5.0)	555.8 (46.7)	7055.6 (7.6)	5180.1 (0.3)	
5625.3 (0.1)	4462.4 (2.2)	4712.0 (0.9)	602.7 (0.6)	7202.0 (5.2)	5695.7 (17.2)	
5637.5 (0.2)	4588.0 (0.3)	4749.8 (4.5)	665.4 (0.8)	7213.7 (18.1)	5696.0 (11.1)	
5678.6 (0.2)	4675.8 (1.0)	4789.0 (0.6)	680.4 (2.5)	7433.6 (0.7)	5824.1 (5.4)	
5707.0 (0.2)	4724.0 (0.3)	4823.9 (3.6)	710.4 (7.6)	7490.8 (14.3)	6091.2 (<0.1)	
5714.5 (0.7)	4743.3 (0.2)	4889.0 (0.9)	717.3 (11.0)		6429.5 (<0.1)	
5733.9 (<0.1)	4810.3 (6.3)	5001.0 (2.3)	726.9 (8.6)	60Ni		
5760.9 (9.7)	4949.1 (1.9)	5044.0 (16.2)	785.6 (20.0)	7052.4 (1.1)	6634.8 (2.0)	
5794.8 (<0.1)	5499.0 (0.7)	5092.0 (0.3)	828.0 (1.2)	7069.2 (2.2)	6719.1 (5.1)	
5846.0 (0.2)	5920.5 (30.5)	5212.0 (0.9)	854.0 (1.1)	7309.1 (1.1)	6720.4 (4.0)	
5905.6 (0.6)	6018.5 (29.8)	5223.0 (0.9)	883.6 (2.2)	7367.9 (10.7)	6752.0 (<0.1)	
5920.5 (4.6)	6380.7 (2.4)	5241.0 (0.6)	901.1 (4.2)	7516.6 (11.2)	7164.3 (0.1)	
5976.6 (1.0)	6507.1 (0.2)	5493.9 (16.5)	931.2 (6.2)	7652.2 (2.9)	7536.7 (59.7)	
6019.2 (0.3)	7278.9 (16.9)	5600.2 (1.7)	945.2 (10.0)	7764.4 (0.5)	7537.3 (56.2)	
6030.6 (2.9)	7631.6 (100.0)	5691.6 (3.8)	963.4 (1.8)	7799.4 (3.9)	7819.6 (100.0)	
6103.9 (11.1)	7645.6 (81.2)	5721.8 (3.8)	1003.8 (1.9)	7993.5 (1.9)	7820.3 (96.2)	
6318.1 (<0.1)		5747.0 (3.6)	1022.6 (2.5)	8069.3 (16.6)		
6429.1 (4.1)	58Fe		1091.5 (4.3)	8192.7 (9.5)	62Ni	
6553.8 (1.1)	233.6 (<0.1)	5905.6 (3.8)	1102.7 (2.7)	8200.5 (1.3)	264.9 (0.1)	
6619.6 (0.8)	238.7 (0.1)	6028.7 (1.8)	1172.8 (3.8)	8263.2 (8.6)	310.4 (0.1)	
6624.9 (0.7)	243.1 (<0.1)	6163.0 (5.0)	1206.8 (2.9)	9102.2 (42.9)	450.4 (<0.1)	
6783.3 (19.0)	252.6 (<0.1)	6414.3 (2.4)	1215.6 (6.2)	9227.5 (5.7)	459.7 (0.5)	
6928.7 (13.0)	278.1 (0.2)	6506.4 (10.6)	1237.6 (3.8)	10053.6 (39.2)	464.6 (2.0)	
7038.7 (1.2)	410.9 (0.1)	6840.0 (0.3)	1262.1 (2.1)	11389. (100.0)	479.6 (0.5)	
7057.8 (61.1)	459.3 (0.6)	6960.7 (15.9)	1332.6 (5.0)		579.4 (0.7)	
7159.7 (33.1)	524.7 (1.8)	7163.0 (0.9)	1361.9 (2.6)	61Ni		
7243.8 (68.3)	810.5 (100.0)	7262.2 (17.3)	1506.9 (7.1)	67.0 (<0.1)	678.5 (0.7)	
7270.3 (19.4)	854.4 (0.2)	8369.7 (17.0)	1515.2 (26.2)	283.6 (<0.1)	703.1 (0.3)	
	863.6 (27.4)	9233.7 (3.3)	1691.0 (5.2)	374.0 (1.0)	722.0 (0.9)	
	898.2 (0.6)	10044.1 (4.1)	1773.5 (4.4)	529.2 (1.3)	756.8 (2.0)	
	1097.4 (0.6)		1785.2 (2.7)	655.3 (3.3)	875.6 (18.9)	
57Fe		59Fe		815.9 (5.6)	968.2 (0.7)	
122.5 (14.0)	1107.3 (5.2)	287.0 (100.0)	1809.4 (4.3)	898.2 (0.3)	1045.9 (0.7)	
136.6 (1.8)	1164.6 (0.5)	728.0 (31.0)	1805.4 (3.0)	907.6 (1.3)	1067.6 (0.5)	
230.3 (5.5)	1238.7 (0.3)	1162.0 (2.8)	1829.2 (20.5)	937.7 (2.6)	1092.5 (1.2)	
352.3 (40.1)	1250.7 (0.3)	1922.0 (12.6)	1851.1 (6.2)	1022.1 (0.3)	1128.7 (9.0)	
366.2 (5.5)	1260.2 (0.9)	1964.0 (6.0)	4207.9 (4.8)	1031.6 (7.9)	1163.3 (7.7)	
570.2 (1.6)	1266.8 (0.5)	2158.0 (8.8)	4276.1 (1.0)	1065.1 (0.5)	1163.3 (7.7)	
692.2 (18.0)	1269.0 (0.2)	4137.0 (7.2)	4329.1 (2.2)	1073.2 (0.3)	1185.9 (3.3)	
705.0 (8.8)	1292.7 (0.6)	4618.0 (7.2)	4348.8 (1.0)	1099.1 (4.9)	1220.8 (6.9)	
898.3 (6.3)	1306.0 (1.2)	4660.0 (15.7)	4376.8 (1.2)	1133.6 (0.5)	1322.1 (0.4)	
921.0 (2.9)	1322.5 (1.7)	5420.0 (4.3)	4394.4 (1.1)	1184.7 (6.9)	1455.2 (0.5)	
1018.6 (<0.1)	1446.3 (5.3)	5854.0 (29.0)	4471.0 (0.5)	1446.9 (0.3)	1470.4 (0.6)	
1250.9 (0.7)	1467.7 (0.6)	6295.0 (87.9)	4527.2 (0.9)	1542.6 (0.5)	1548.0 (0.7)	
1261.4 (8.8)	1657.2 (0.6)	6582.0 (4.0)	4546.5 (1.7)	1611.7 (0.5)	1661.3 (0.5)	
1359.3 (7.0)	1662.5 (1.4)		4607.1 (4.2)	1662.7 (0.3)	1718.3 (1.6)	
1612.4 (21.7)	1674.2 (17.6)	59Ni		1730.6 (0.5)	1761.0 (1.3)	
1627.3 (3.7)	1862.5 (2.4)	465.4 (<0.1)	4645.8 (1.5)	2123.9 (9.6)	1815.8 (0.5)	
1725.7 (29.4)	1871.0 (11.1)	879.5 (<0.1)	4666.8 (1.9)	2406.2 (0.3)	1850.0 (0.8)	
2067.1 (2.3)	2065.5 (9.5)	1189.0 (<0.1)	4705.9 (2.3)	2639.8 (0.4)	1886.2 (2.2)	
2129.6 (1.6)	2137.6 (1.1)	1301.0 (<0.1)	4731.5 (0.8)	2706.6 (0.2)	1985.1 (5.4)	
2137.6 (3.3)	2273.3 (19.7)	5816.0 (9.1)	4781.4 (1.2)	2763.5 (0.1)	2084.2 (5.3)	
2468.5 (1.6)	2433.5 (3.0)	6102.0 (5.1)	4884.3 (8.1)	2782.9 (0.2)	2097.3 (9.5)	
2527.7 (1.5)	2466.9 (0.9)	6583.0 (7.4)	4905.4 (10.0)	2861.7 (0.6)	2289.7 (0.4)	
2682.8 (1.5)	2490.6 (1.1)	7695.0 (3.0)	4921.5 (4.8)	2934.1 (0.3)	2301.4 (13.7)	
2697.3 (0.8)	2513.5 (2.4)	7817.0 (23.9)	4946.0 (3.3)	3012.7 (0.2)	2345.6 (5.9)	
2721.5 (5.1)	2726.0 (10.9)	8119.9 (8.9)	4964.0 (1.2)	3062.7 (0.1)	2583.6 (0.7)	
2721.9 (7.7)	2781.0 (5.2)	8533.6 (48.5)	5002.4 (4.2)	3076.7 (0.1)	2799.4 (2.4)	
2751.1 (0.6)	2820.0 (2.9)	8999.3 (100.0)	5038.7 (1.4)	3089.7 (0.1)	3060.0 (0.7)	
2820.8 (1.1)	2876.0 (<0.1)		5069.0 (2.4)	3106.5 (0.1)	3158.0 (2.2)	
2835.0 (2.1)	3071.0 (2.4)	60Co		3131.9 (0.4)	3270.0 (2.1)	
2873.8 (1.5)	3162.0 (2.1)	58.6 (9.5)	5128.1 (3.1)	3144.6 (0.2)	3370.0 (2.0)	
2922.5 (0.5)	3183.0 (0.8)	158.6 (29.0)	5166.5 (1.8)	3232.2 (0.2)	3456.0 (0.5)	
2955.6 (1.3)	3205.0 (1.2)	171.1 (0.3)	5181.2 (17.1)	3243.3 (0.2)	3518.0 (0.4)	
3062.1 (0.4)	3280.0 (0.5)	171.8 (1.1)	5212.6 (2.5)	3305.5 (0.1)	3546.0 (0.7)	
3103.9 (2.4)	3326.0 (8.6)	175.6 (0.2)	5269.6 (5.5)	3385.6 (0.6)	3820.0 (2.1)	
3169.3 (1.1)	3486.0 (1.5)	195.9 (3.0)	5357.9 (2.1)	3415.0 (0.3)	3860.0 (2.1)	
3186.2 (2.4)	3540.0 (2.7)	217.8 (0.3)	5370.5 (2.0)	3530.3 (<0.1)	3972.0 (1.6)	
3225.8 (0.6)	3740.0 (1.7)	218.2 (0.2)	5509.7 (4.1)	3580.7 (0.9)	4061.0 (1.2)	
3240.4 (0.8)	3881.8 (1.8)	220.1 (0.6)	5602.3 (7.1)	3642.0 (0.2)	4318.0 (0.3)	
3267.8 (4.4)	3952.0 (0.6)	224.0 (0.3)	5613.6 (5.7)	3711.4 (0.6)	4416.0 (0.5)	
3356.9 (1.1)	3987.0 (0.5)	229.8 (100.0)	5638.5 (6.7)	3851.2 (<0.1)	4998.0 (0.6)	
3413.8 (5.5)	4006.0 (0.6)	233.4 (0.2)	5659.7 (32.9)	3869.8 (0.3)	5596.0 (0.2)	
3437.4 (4.8)	4062.0 (0.2)	234.1 (0.5)	5702.9 (1.7)	3898.5 (<0.1)	5677.0 (0.4)	
3490.0 (1.5)	4080.0 (0.9)	254.3 (11.0)	5742.2 (11.0)	3950.1 (0.4)	5968.0 (0.9)	
3507.3 (1.1)	4139.9 (3.2)	277.1 (57.1)	5849.5 (1.1)	4043.5 (0.2)	6179.0 (1.3)	
3665.8 (0.5)	4185.0 (0.3)	279.4 (1.4)	5925.1 (8.1)	4081.4 (0.1)	6277.0 (0.5)	
3721.3 (0.4)	4189.0 (0.5)	298.1 (0.6)	5975.1 (34.8)	4108.6 (0.8)	6364.0 (0.7)	
3745.8 (0.2)	4298.1 (1.5)	337.3 (1.3)	6039.9 (2.8)	4150.9 (0.8)	6387.0 (0.5)	
3777.7 (0.7)	4322.1 (4.2)	349.8 (0.8)	6109.7 (2.4)	4228.8 (<0.1)	6395.0 (0.7)	
3791.7 (0.6)	4342.0 (0.6)	370.2 (0.7)	6148.9 (1.8)	4239.8 (0.4)	6445.0 (1.6)	
3854.9 (3.6)	4380.0 (0.3)	391.2 (15.7)	6275.2 (3.2)	4294.6 (0.2)	6532.0 (2.4)	
4012.5 (1.4)	4411.0 (0.8)	435.7 (6.2)	6282.8 (2.6)	4404.1 (1.8)	6623.0 (2.2)	
	4443.0 (1.1)		6485.9 (33.8)			

Table II. CAPTURE γ 's - nuclide sorted (cont.)

[illegible]

Table 11. CAPTURE γ 's - nuclide sorted (cont.)

E _γ (keV)	(ΣI _γ)	E _γ (keV)	(ΣI _γ)	E _γ (keV)	(ΣI _γ)	E _γ (keV)	(ΣI _γ)	E _γ (keV)	(ΣI _γ)
882n (cont.)									
3883.1	1.0	4789.8	0.3	6471.4	5.0	1203.0	3.5	5029.0	0.2
3886.5	1.0	4795.0	0.8	6493.0	0.2	1244.0	4.0	5038.0	0.8
3886.8	0.2	4795.2	0.3	6533.3	0.2	1312.0	4.0	5051.0	0.4
3874.6	0.0	4825.2	0.3	6568.0	<0.1	1359.0	2.3	5068.0	0.6
3876.6	0.4	4825.9	0.2	6597.3	<0.1	1456.0	2.3	5072.0	0.6
3883.5	0.4	4825.1	0.3	6610.8	1.3	1485.0	0.9	5082.0	1.7
3903.8	0.4	4826.2	0.6	6701.9	2.4	1518.0	2.9	5098.0	0.4
3913.9	0.3	4826.3	0.6	6727.7	0.6	1532.0	1.7	5105.0	0.5
3935.6	0.1	4826.4	1.1	6810.6	4.6	1725.0	2.0	5133.0	1.7
3941.8	0.1	4826.2	0.2	6849.3	<0.1	1865.0	1.5	5143.0	<0.1
3958.6	0.2	4832.1	0.2	7048.2	0.4	1897.0	1.5	5176.0	0.7
3970.9	0.4	4832.6	0.2	7129.7	0.2	1930.0	1.2	5193.0	0.4
4024.0	0.2	4832.9	0.2	7242.5	0.2	2117.0	1.7	5215.0	0.5
4028.3	0.4	4832.4	0.2	7742.5	<0.1	2143.0	0.8	5223.0	0.7
4053.4	0.1	5011.4	0.6	7839.9	2.1	2163.0	0.4	5244.0	0.2
4062.7	<0.1	5016.3	0.7	7859.7	2.1	2410.0	0.8	5265.0	0.2
4069.4	0.6	5018.5	0.4	8314.1	2.1	2454.0	0.8	5302.0	0.6
4077.1	0.5	5019.8	0.1	882n		2501.0	1.1	5312.0	0.8
4082.9	0.4	5034.8	0.2	496.0	3.4	2530.0	0.7	5334.0	1.1
4109.8	0.4	5040.8	0.1	532.0	2.7	2536.0	1.2	5342.0	0.3
4132.4	0.2	5103.7	0.2	560.0	7.2	2539.0	0.7	5399.0	0.5
4139.1	0.1	5110.4	0.2	660.0	6.7	3101.0	0.7	5420.0	0.4
4146.2	0.2	5112.6	0.5	835.0	10.0	3377.0	0.5	5464.0	0.2
4157.9	0.1	5119.1	0.2	1008.0	17.0	3476.0	0.4	5489.0	4.1
4166.7	0.1	5119.3	0.2	1180.0	14.5	3476.0	0.5	5521.0	1.0
4185.3	0.2	5121.6	0.4	1252.0	14.5	3486.0	0.5	5523.0	0.1
4196.8	0.4	5121.3	0.2	1452.0	10.2	3560.0	0.4	5529.0	0.9
4196.8	0.2	5219.6	0.4	1596.0	8.5	3570.0	0.1	5627.0	2.8
4221.9	0.2	5224.3	0.5	1812.0	6.0	3581.0	0.4	5637.0	0.8
4229.5	0.2	5224.9	1.1	1830.0	6.0	3659.0	0.4	5669.0	0.8
4241.5	0.2	5227.7	1.0	2312.0	19.1	3745.0	0.8	5689.0	0.6
4246.5	0.2	5227.6	1.2	2344.0	19.1	3760.0	0.4	5716.0	0.7
4251.9	0.2	5319.0	0.8	3192.0	6.4	3774.0	0.4	5723.0	1.8
4281.7	0.2	5315.9	0.3	3920.0	2.1	3795.0	0.4	5747.0	1.0
4290.5	0.3	5339.2	0.3	3972.0	2.1	3827.0	0.7	5787.0	1.8
4301.0	0.3	5352.9	0.3	4072.0	15.3	3865.0	0.9	5807.0	2.8
4309.9	0.3	5354.4	0.3	4109.0	15.3	3924.0	0.8	5829.0	0.6
4312.1	0.5	5415.3	0.2	4139.0	39.6	3944.0	0.5	5859.0	0.6
4325.1	0.5	5415.3	0.2	4426.0	9.4	4033.0	0.5	5918.0	0.3
4337.3	0.6	5442.8	0.1	4450.0	9.4	4137.0	0.3	5927.0	0.4
4343.8	0.4	5444.4	0.3	4488.0	5.5	4152.0	0.7	5963.0	0.4
4347.4	0.5	5444.4	0.3	4665.0	1.4	4180.0	0.7	5993.0	0.4
4355.7	0.2	5444.7	0.2	4853.0	9.4	4206.0	0.5	6020.0	0.3
4362.3	0.3	5443.3	0.2	5237.0	8.5	4317.0	0.7	6031.0	1.3
4370.0	0.3	5452.9	0.3	5547.0	16.9	4323.0	1.2	6098.0	1.3
4381.0	0.3	5525.7	0.3	6462.0	12.9	4414.0	0.5	6120.0	1.3
4391.9	0.3	5544.9	0.1	705n		4431.0	0.9	6136.0	1.1
4411.2	0.3	5561.0	0.3	158.0	6.4	4464.0	0.7	6166.0	1.1
4417.1	0.3	5562.3	0.2	187.5	4.1	4494.0	0.7	6207.0	0.9
4446.2	0.4	5562.3	0.1	318.4	24.0	4501.0	0.2	6239.0	0.7
4471.9	0.4	5562.3	0.2	369.0	2.9	4511.0	0.2	6293.0	0.8
4478.3	0.3	5562.3	0.1	373.1	8.8	4547.0	0.2	6341.0	1.3
4493.9	0.2	5565.0	0.1	399.0	17.3	4557.0	0.2	6346.5	2.5
4495.3	0.6	5605.0	0.1	420.0	4.3	4565.0	0.2	6391.0	6.5
4495.3	0.6	5605.0	0.1	442.0	3.9	4571.0	0.4	6401.0	0.7
4495.3	0.6	5605.0	0.1	450.0	4.3	4581.0	0.3	6449.0	0.5
4495.3	0.6	5605.0	0.1	456.0	0.7	4589.0	0.8	6491.6	0.8
4495.3	0.6	5605.0	0.1	456.0	0.7	4596.0	0.1	6629.7	0.8
4495.3	0.6	5605.0	0.1	456.0	0.7	4631.0	0.3	6658.5	0.9
4495.3	0.6	5605.0	0.1	456.0	0.7	4660.0	0.3	6658.5	0.9
4495.3	0.6	5605.0	0.1	456.0	0.7	4672.0	0.2	6693.3	0.2
4495.3	0.6	5605.0	0.1	456.0	0.7	4682.0	0.2	7003.6	3.5
4495.3	0.6	5605.0	0.1	456.0	0.7	4696.0	0.3	7147.4	0.8
4495.3	0.6	5605.0	0.1	456.0	0.7	4721.0	0.4	7651	0.8
4495.3	0.6	5605.0	0.1	456.0	0.7	4753.0	0.5	716e	
4495.3	0.6	5605.0	0.1	456.0	0.7	4773.0	0.3	23.4	<0.1
4495.3	0.6	5605.0	0.1	456.0	0.7	4779.0	0.3	99.7	1.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4796.0	0.3	174.9	97.1
4495.3	0.6	5605.0	0.1	456.0	0.7	4813.0	0.6	241.6	<0.1
4495.3	0.6	5605.0	0.1	456.0	0.7	4825.0	0.2	247.3	6.5
4495.3	0.6	5605.0	0.1	456.0	0.7	4832.0	0.9	283.5	7.5
4495.3	0.6	5605.0	0.1	456.0	0.7	4842.0	0.9	306.2	8.6
4495.3	0.6	5605.0	0.1	456.0	0.7	4853.0	1.4	308.2	6.2
4495.3	0.6	5605.0	0.1	456.0	0.7	4863.0	1.4	326.0	5.6
4495.3	0.6	5605.0	0.1	456.0	0.7	4872.0	0.4	331.3	3.7
4495.3	0.6	5605.0	0.1	456.0	0.7	4966.0	0.2	343.6	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4992.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1	456.0	0.7	4996.0	0.5	350.1	3.4
4495.3	0.6	5605.0	0.1						

Table II. CAPTURE γ 's - nuclide sorted (cont.)

E_{γ} (keV)	($\%I_{\gamma}$)	E_{γ} (keV)	($\%I_{\gamma}$)	E_{γ} (keV)	($\%I_{\gamma}$)	E_{γ} (keV)	($\%I_{\gamma}$)	E_{γ} (keV)	($\%I_{\gamma}$)	E_{γ} (keV)	($\%I_{\gamma}$)	E_{γ} (keV)	($\%I_{\gamma}$)
71Ge (cont.)													
5180.9	(1.2)	497.8	(0.4)	3947.0	(0.8)	5575.0	(0.2)	5850.9	(8.1)	5349.0	(0.2)		
5269.1	(4.4)	500.3	(1.1)	3947.0	(0.8)	5601.0	(1.2)	5867.2	(3.1)	5356.0	(0.1)		
5269.5	(1.2)	525.8	(0.3)	3961.0	(0.8)	5626.0	(0.1)	5877.7	(3.1)	5369.0	(0.2)		
5341.5	(1.6)	527.6	(0.2)	3969.0	(0.8)	5643.0	(0.1)	6227.7	(36.0)	5447.0	(0.1)		
5451.3	(14.0)	532.4	(0.4)	3976.0	(0.8)	5650.0	(2.7)	6390.6	(20.6)	5477.0	(0.1)		
5674.3	(12.0)	535.6	(4.4)	3989.0	(2.0)	5663.0	(1.9)	6419.0	(4.1)	5521.0	(0.4)		
5619.4	(14.8)	538.1	(0.9)	4018.0	(1.8)	5691.0	(3.8)	6716.9	(74Ge)	5561.0	(0.2)		
5674.3	(1.0)	545.1	(1.7)	4028.0	(0.6)	5721.0	(3.8)			5565.0	(0.2)		
6037.2	(23.5)	547.9	(1.4)	4050.0	(1.0)	5780.0	(4.2)	289.1	(0.6)	5595.0	(0.1)		
6118.5	(22.1)	549.9	(0.3)	4068.0	(1.2)	5781.0	(0.5)	468.0	(0.6)	5639.0	(0.2)		
6276.5	(11.2)	555.5	(0.2)	4127.0	(0.2)	5883.0	(1.8)	481.3	(0.7)	5690.0	(0.1)		
6319.7	(5.9)	559.3	(0.5)	4163.0	(0.2)	5901.0	(3.0)	492.9	(10.3)	5752.0	(0.1)		
6384.6	(8.4)	561.1	(0.5)	4167.0	(0.2)	5919.0	(2.5)	531.2	(1.5)	5766.0	(0.2)		
6606.6	(24.0)	564.5	(1.2)	4189.0	(1.0)	5956.0	(0.6)	541.8	(0.4)	5829.0	(0.1)		
6707.6	(19.8)	569.7	(0.6)	4197.0	(2.0)	6007.0	(9.4)	580.1	(10.0)	5859.0	(0.2)		
7414.7	(10.7)	572.4	(0.6)	4215.0	(0.4)	6110.0	(0.4)	595.7	(100.0)	5963.0	(0.1)		
		575.1	(0.6)	4230.0	(0.4)	6128.0	(3.6)	608.3	(22.6)	5990.0	(0.1)		
72Ge		579.8	(0.8)	4250.0	(2.6)	6190.0	(0.5)	701.5	(5.5)	6031.0	(0.1)		
79.9	(4.8)	583.4	(1.1)	4259.0	(1.8)	6237.0	(0.2)	739.4	(0.7)	6042.0	(0.2)		
88.9	(5.4)	587.1	(1.1)	4282.0	(0.8)	6271.0	(0.2)	769.9	(1.1)	6102.0	(0.1)		
103.2	(10.2)	589.7	(0.3)	4310.0	(1.2)	6290.0	(3.2)	808.2	(1.9)	6115.0	(0.1)		
106.4	(3.0)	601.4	(0.4)	4318.0	(0.4)	6310.0	(0.2)	867.9	(49.6)	6131.6	(0.1)		
109.9	(30.6)	603.4	(1.8)	4338.0	(2.4)	6322.0	(2.5)	939.2	(1.0)	6163.3	(0.2)		
112.4	(0.5)	608.8	(0.4)	4353.0	(1.2)	6359.0	(19.0)	961.1	(10.9)	6173.8	(0.7)		
116.8	(0.5)	613.7	(0.7)	4375.0	(2.3)	6401.0	(0.4)	999.8	(4.8)	6182.5	(0.1)		
121.0	(2.2)	617.7	(0.4)	4382.0	(1.6)	6503.0	(0.5)	1101.3	(12.9)	6187.7	(0.2)		
128.5	(1.6)	619.1	(1.0)	4403.0	(0.6)	6519.0	(3.1)	1105.8	(6.6)	6243.5	(1.1)		
132.4	(2.8)	621.9	(0.9)	4464.0	(0.6)			1131.7	(4.7)	6272.1	(0.6)		
136.0	(2.0)	630.3	(1.2)	4476.0	(2.8)	73Ge		1150.7	(13.3)	6280.6	(0.1)		
139.6	(3.2)	633.7	(6.8)	4495.0	(0.8)	13.3	(17.3)	1204.5	(0.8)	6347.3	(0.1)		
142.3	(3.6)	637.9	(1.4)	4501.0	(1.0)	53.5	(30.3)	1258.2	(0.5)	6363.7	(1.1)		
145.1	(100.0)	643.0	(1.4)	4512.0	(0.2)	58.7	(26.8)	1264.7	(0.5)	6391.0	(0.2)		
153.8	(6.0)	645.9	(1.3)	4543.0	(2.1)	191.0	(68.7)	1322.4	(1.0)	6407.7	(0.5)		
163.2	(4.0)	650.4	(0.3)	4578.0	(0.5)	233.6	(23.6)	1338.1	(0.7)	6424.0	(0.1)		
181.6	(8.0)	658.3	(1.2)	4595.0	(0.4)	284.7	(15.8)	1350.2	(0.2)	6466.9	(0.1)		
184.0	(19.6)	660.0	(2.5)	4602.0	(0.4)	297.2	(52.7)	1384.4	(0.7)	6474.2	(0.1)		
192.0	(39.0)	668.5	(1.3)	4607.0	(0.8)	316.4	(29.7)	1471.8	(0.9)	6490.3	(0.4)		
197.9	(27.4)	709.0	(0.2)	4622.0	(0.1)	360.0	(100.0)	1480.4	(1.9)	6518.5	(0.1)		
202.1	(2.4)	932.0	(0.6)	4638.0	(0.2)	430.2	(30.2)	1509.9	(3.8)	6551.5	(0.1)		
210.3	(3.6)	2033.0	(0.8)	4650.0	(0.7)	432.7	(16.9)	1569.3	(0.1)	6568.1	(0.1)		
212.2	(15.6)	2058.0	(1.8)	4664.0	(0.6)	474.7	(11.7)	1599.3	(1.4)	6682.1	(0.3)		
218.7	(0.6)	2097.0	(1.8)	4678.0	(0.7)	485.3	(20.4)	1618.0	(1.3)	6694.4	(0.3)		
228.9	(8.2)	2419.0	(1.0)	4686.0	(1.3)	488.0	(8.6)	1635.8	(1.3)	6707.4	(0.9)		
231.0	(2.2)	2475.0	(2.6)	4704.0	(0.8)	528.4	(6.2)	1641.2	(1.0)	6737.1	(0.1)		
236.2	(1.3)	2609.0	(1.0)	4725.0	(0.4)	531.1	(8.2)	1676.5	(1.4)	6804.8	(0.9)		
246.8	(2.0)	2868.0	(0.4)	4743.0	(0.1)	541.8	(10.6)	1713.5	(1.0)	6816.0	(0.1)		
249.0	(23.6)	2886.0	(0.8)	4770.0	(0.3)	560.3	(10.5)	1756.3	(1.0)	6841.6	(0.1)		
252.4	(0.4)	2918.0	(0.8)	4792.0	(0.8)	650.3	(7.0)	1808.0	(0.6)	6881.2	(0.2)		
257.3	(4.4)	3141.0	(0.4)	4808.0	(3.8)	679.3	(4.2)	1830.4	(0.6)	6956.7	(0.3)		
266.1	(6.8)	3158.0	(0.8)	4839.0	(7.6)	706.1	(12.7)	1845.0	(0.3)	6957.4	(0.1)		
273.9	(2.0)	3236.0	(0.6)	4867.0	(3.8)	757.5	(14.3)	1941.0	(0.4)	6987.0	(0.6)		
299.1	(1.1)	3302.0	(1.2)	4890.0	(0.2)	763.3	(12.3)	2014.2	(1.4)	7032.3	(1.7)		
302.6	(10.4)	3334.0	(0.4)	4907.0	(0.4)	769.9	(6.8)	2075.3	(0.5)	7116.4	(0.4)		
306.1	(2.8)	3359.0	(0.8)	4987.0	(0.5)	784.7	(7.7)	2099.2	(0.7)	7139.4	(0.3)		
309.9	(4.0)	3373.0	(1.0)	5004.0	(0.5)	961.6	(3.7)	2214.2	(0.5)	7163.6	(1.0)		
315.8	(2.8)	3432.0	(1.0)	5015.0	(0.3)	975.9	(7.7)	2266.1	(1.4)	7224.2	(3.0)		
318.1	(0.8)	3455.0	(1.4)	5047.0	(0.5)	1064.8	(48.6)	2332.4	(0.9)	7262.3	(0.1)		
351.5	(0.4)	3458.0	(1.4)	5054.0	(0.4)	1250.1	(5.5)	2367.3	(0.7)	7273.0	(0.6)		
353.4	(0.8)	3501.0	(1.4)	5078.0	(0.4)	3140.8	(5.5)	2368.8	(0.7)	7369.1	(0.9)		
353.6	(0.8)	3520.0	(1.0)	5092.0	(1.3)	3334.5	(3.7)	2512.9	(0.5)	7504.1	(0.1)		
368.0	(0.4)	3550.0	(0.6)	5124.0	(0.6)	3520.3	(1.7)	2569.9	(0.6)	7569.5	(0.1)		
373.6	(0.2)	3555.0	(0.8)	5160.0	(0.2)	3651.6	(2.0)	2621.8	(0.2)	7684.9	(0.3)		
376.4	(0.3)	3556.0	(0.4)	5198.0	(0.7)	3704.4	(2.3)	2693.1	(0.8)	8002.2	(0.1)		
379.7	(0.3)	3557.0	(0.8)	5223.0	(3.0)	3789.9	(3.1)	2700.7	(0.7)	8034.5	(1.3)		
384.3	(0.5)	3557.0	(0.8)	5234.0	(6.8)	3852.4	(2.3)	2744.6	(0.3)	8502.5	(0.9)		
390.7	(0.5)	3557.0	(0.8)	5257.0	(0.5)	3898.4	(6.0)	2755.1	(0.3)	8736.4	(1.2)		
393.3	(12.8)	3564.0	(0.8)	5271.0	(0.8)	4008.0	(3.7)	2771.1	(1.2)	8997.7	(0.1)		
402.8	(2.4)	3632.0	(1.2)	5282.0	(0.2)	4062.3	(6.1)	2788.1	(0.4)	9606.0	(0.1)		
406.2	(1.0)	3694.0	(0.6)	5303.0	(0.2)	4076.6	(6.3)	2833.3	(0.4)				
408.1	(2.8)	3715.0	(1.8)	5314.0	(0.4)	4217.9	(5.8)	2880.6	(0.7)	60.5	(0.1)		
411.3	(0.4)	3733.0	(1.4)	5319.0	(0.3)	4299.3	(2.0)	2909.4	(0.2)	80.1	(0.1)		
415.9	(0.4)	3744.0	(0.4)	5333.0	(7.2)	4363.5	(2.3)	2953.6	(0.2)	111.8	(3.0)		
423.8	(0.6)	3774.0	(0.4)	5339.0	(0.4)	4381.2	(2.5)	4646.0	(0.3)	121.1	(3.2)		
431.6	(0.9)	3782.0	(0.4)	5370.0	(0.5)	4492.3	(1.8)	4686.0	(0.2)	139.2	(56.3)		
436.3	(1.4)	3804.0	(2.0)	5404.0	(0.6)	4594.7	(2.8)	4725.0	(0.2)	157.3	(16.4)		
439.3	(2.0)	3814.0	(0.6)	5443.0	(0.3)	4650.7	(2.7)	4810.0	(0.2)	203.0	(7.1)		
442.4	(0.4)	3844.0	(0.8)	5469.0	(0.8)	4890.9	(1.8)	4844.0	(0.2)	223.7	(0.1)		
444.7	(4.0)	3850.0	(1.0)	5497.0	(0.5)	4890.9	(2.3)	4907.0	(0.2)	233.7	(69.9)		
458.7	(1.8)	3894.0	(1.2)	5498.0	(1.7)	5238.3	(1.5)	4951.0	(0.1)	253.7	(0.1)		
461.3	(1.6)	3894.0	(0.6)	5517.0	(0.4)	5395.9	(34.2)	5024.0	(0.2)	259.7	(17.6)		
465.3	(7.4)	3906.0	(1.2)	5541.0	(1.8)	5518.1	(15.1)	5065.0	(0.2)	445.8	(15.0)		
488.8	(3.2)	3930.0	(1.2)	5541.0	(1.8)	5740.8	(16.5)	5165.0	(0.4)	574.7	(100.0)		
								5225.0	(0.1)	737.1	(9.8)		

Table-II-6

Table II. CAPTURE γ 's - nuclide sorted (cont.)

[illegible]

Table-11-7

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_{\gamma}(\text{keV})$ ($\pi 17$)	$E_{\gamma}(\text{keV})$ ($\pi 17$)	$E_{\gamma}(\text{keV})$ ($\pi 17$)	$E_{\gamma}(\text{keV})$ ($\pi 17$)	$E_{\gamma}(\text{keV})$ ($\pi 17$)	$E_{\gamma}(\text{keV})$ ($\pi 17$)	$E_{\gamma}(\text{keV})$ ($\pi 17$)	$E_{\gamma}(\text{keV})$ ($\pi 17$)
775e (cont.)					785e		
708.2 (1.0)	1374.5 (1.0)	2153.4 (2.1)	0.9 (0.9)	6600.5 (34.6)	1228.8 (0.5)	5345.0 (0.8)	
721.7 (0.6)	1378.3 (1.9)	2164.2 (2.1)	0.6 (0.6)	6895.7 (0.6)	1240.1 (4.6)	5367.5 (0.3)	
724.9 (0.3)	1381.3 (3.0)	2169.9 (2.2)	0.7 (1.1)	7179.2 (14.2)	1261.5 (0.3)	5626.6 (0.7)	
733.0 (0.6)	1387.7 (0.6)	2212.1 (1.1)	1.1 (0.6)	7241.5 (0.6)	1263.7 (0.3)	6046.5 (1.4)	
737.9 (0.5)	1392.6 (0.6)	2217.3 (0.6)	0.6 (0.6)	7418.0 (22.2)	1292.3 (0.3)	6108.3 (0.4)	
741.7 (0.4)	1395.8 (0.9)	2221.1 (1.2)	1.2 (1.1)		1308.5 (1.6)	6133.1 (0.6)	
746.5 (0.4)	1402.9 (0.6)	2223.0 (1.1)	1.1 (0.6)		1338.8 (0.3)	6153.8 (0.4)	
749.5 (1.4)	1408.4 (0.6)	2237.0 (0.6)	0.6 (0.6)		1369.7 (0.3)	6244.5 (1.6)	
755.5 (6.7)	1412.0 (0.6)	2237.4 (0.6)	0.6 (0.6)		1382.0 (2.7)	6343.3 (0.8)	
766.0 (0.2)	1417.6 (0.6)	2238.3 (1.1)	1.1 (0.6)		1387.5 (0.4)	6460.0 (1.9)	
770.5 (0.2)	1435.1 (0.3)	2238.0 (1.1)	1.1 (0.6)		1484.9 (1.6)	6488.6 (1.3)	
777.3 (0.1)	1451.4 (0.6)	2246.5 (0.7)	0.7 (1.8)		1529.9 (0.4)	6810.8 (1.9)	
784.7 (0.2)	1461.1 (0.4)	2247.0 (0.6)	0.6 (0.7)		1555.0 (0.3)	6873.0 (0.6)	
787.9 (0.3)	1461.1 (0.3)	2247.0 (0.6)	0.6 (0.7)		1555.0 (0.3)	6873.0 (0.6)	
790.6 (0.2)	1461.1 (0.3)	2247.0 (0.6)	0.6 (0.7)		1555.0 (0.3)	6873.0 (0.6)	
813.8 (0.4)	1476.4 (1.0)	2247.0 (0.6)	0.6 (1.1)		1555.0 (0.3)	6873.0 (0.6)	
817.8 (5.9)	1485.4 (0.3)	2253.7 (0.6)	0.6 (1.1)		1555.0 (0.3)	6873.0 (0.6)	
825.0 (0.4)	1489.2 (0.6)	2253.7 (0.6)	0.6 (1.1)		1555.0 (0.3)	6873.0 (0.6)	
830.9 (0.8)	1507.2 (0.3)	2253.7 (0.6)	0.3 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
843.1 (0.7)	1511.6 (0.3)	2253.7 (0.6)	0.3 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
879.5 (0.4)	1530.1 (0.3)	2253.7 (0.6)	0.3 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
882.4 (1.7)	1533.4 (0.3)	2253.7 (0.6)	0.3 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
886.9 (8.3)	1538.6 (0.4)	2253.7 (0.6)	0.4 (0.4)		1555.0 (0.3)	6873.0 (0.6)	
889.1 (2.5)	1550.4 (0.4)	2253.7 (0.6)	0.4 (0.4)		1555.0 (0.3)	6873.0 (0.6)	
891.5 (0.5)	1569.1 (0.1)	2253.7 (0.6)	0.1 (0.5)		1555.0 (0.3)	6873.0 (0.6)	
904.6 (0.2)	1579.4 (0.3)	2253.7 (0.6)	0.3 (0.8)		1555.0 (0.3)	6873.0 (0.6)	
911.8 (0.3)	1587.6 (0.4)	2253.7 (0.6)	0.4 (0.8)		1555.0 (0.3)	6873.0 (0.6)	
920.8 (0.3)	1592.4 (0.4)	2253.7 (0.6)	0.4 (0.8)		1555.0 (0.3)	6873.0 (0.6)	
942.5 (0.2)	1594.7 (0.4)	2253.7 (0.6)	0.4 (0.8)		1555.0 (0.3)	6873.0 (0.6)	
947.2 (2.9)	1604.3 (0.3)	2253.7 (0.6)	0.3 (0.3)		1555.0 (0.3)	6873.0 (0.6)	
951.8 (1.5)	1608.0 (0.4)	2253.7 (0.6)	0.4 (0.4)		1555.0 (0.3)	6873.0 (0.6)	
957.8 (0.6)	1614.6 (0.4)	2253.7 (0.6)	0.4 (0.4)		1555.0 (0.3)	6873.0 (0.6)	
963.0 (0.5)	1620.2 (0.4)	2253.7 (0.6)	0.4 (0.4)		1555.0 (0.3)	6873.0 (0.6)	
967.8 (0.4)	1623.7 (0.4)	2253.7 (0.6)	0.4 (0.4)		1555.0 (0.3)	6873.0 (0.6)	
973.5 (0.4)	1635.2 (0.3)	2253.7 (0.6)	0.3 (0.1)		1555.0 (0.3)	6873.0 (0.6)	
980.7 (0.5)	1638.9 (0.4)	2253.7 (0.6)	0.4 (0.2)		1555.0 (0.3)	6873.0 (0.6)	
986.9 (1.6)	1643.6 (0.8)	2253.7 (0.6)	0.8 (0.8)		1555.0 (0.3)	6873.0 (0.6)	
991.6 (0.3)	1647.3 (0.6)	2253.7 (0.6)	0.6 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
995.0 (0.6)	1672.3 (0.4)	2253.7 (0.6)	0.4 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1001.7 (0.3)	1677.0 (0.1)	2253.7 (0.6)	0.1 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1005.4 (0.4)	1682.2 (0.3)	2253.7 (0.6)	0.3 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1008.0 (0.3)	1688.6 (0.1)	2253.7 (0.6)	0.1 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1026.0 (0.3)	1693.5 (0.1)	2253.7 (0.6)	0.1 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1039.4 (0.3)	1712.0 (0.1)	2253.7 (0.6)	0.1 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1048.8 (0.3)	1721.6 (0.1)	2253.7 (0.6)	0.1 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1051.7 (0.1)	1723.9 (0.1)	2253.7 (0.6)	0.1 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1062.9 (0.1)	1725.9 (0.1)	2253.7 (0.6)	0.1 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1071.7 (0.3)	1733.2 (0.1)	2253.7 (0.6)	0.1 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1075.5 (0.2)	1734.2 (0.1)	2253.7 (0.6)	0.1 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1083.4 (0.2)	1739.1 (0.1)	2253.7 (0.6)	0.1 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1091.2 (0.8)	1751.3 (0.1)	2253.7 (0.6)	0.1 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1104.7 (0.1)	1755.6 (0.1)	2253.7 (0.6)	0.1 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1111.4 (0.2)	1788.1 (0.1)	2253.7 (0.6)	0.1 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1117.4 (0.3)	1803.4 (0.1)	2253.7 (0.6)	0.1 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1124.9 (0.3)	1831.1 (0.1)	2253.7 (0.6)	0.1 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1128.0 (0.5)	1837.8 (0.1)	2253.7 (0.6)	0.1 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1139.8 (0.3)	1848.4 (0.1)	2253.7 (0.6)	0.1 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1161.4 (1.9)	1851.0 (0.9)	2253.7 (0.6)	0.9 (1.8)		1555.0 (0.3)	6873.0 (0.6)	
1163.3 (3.9)	1856.7 (1.8)	2253.7 (0.6)	1.8 (1.7)		1555.0 (0.3)	6873.0 (0.6)	
1172.7 (1.8)	1872.6 (0.3)	2253.7 (0.6)	0.3 (1.7)		1555.0 (0.3)	6873.0 (0.6)	
1179.1 (1.0)	1884.7 (0.2)	2253.7 (0.6)	0.2 (0.2)		1555.0 (0.3)	6873.0 (0.6)	
1187.0 (0.4)	1906.0 (0.4)	2253.7 (0.6)	0.4 (0.4)		1555.0 (0.3)	6873.0 (0.6)	
1194.3 (0.2)	1916.0 (0.4)	2253.7 (0.6)	0.4 (0.4)		1555.0 (0.3)	6873.0 (0.6)	
1208.7 (0.5)	1939.0 (0.6)	2253.7 (0.6)	0.6 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1228.0 (0.4)	1944.4 (0.3)	2253.7 (0.6)	0.3 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1230.1 (0.4)	1959.1 (0.3)	2253.7 (0.6)	0.3 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1237.6 (0.2)	1963.2 (0.3)	2253.7 (0.6)	0.3 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1249.1 (0.4)	1972.2 (0.3)	2253.7 (0.6)	0.3 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1259.5 (0.1)	1975.4 (0.4)	2253.7 (0.6)	0.4 (0.7)		1555.0 (0.3)	6873.0 (0.6)	
1263.4 (0.3)	1981.4 (0.4)	2253.7 (0.6)	0.4 (0.7)		1555.0 (0.3)	6873.0 (0.6)	
1272.3 (0.7)	2009.9 (0.7)	2253.7 (0.6)	0.7 (0.7)		1555.0 (0.3)	6873.0 (0.6)	
1284.4 (0.4)	2018.5 (0.4)	2253.7 (0.6)	0.4 (0.4)		1555.0 (0.3)	6873.0 (0.6)	
1286.9 (0.8)	2034.3 (0.6)	2253.7 (0.6)	0.6 (1.1)		1555.0 (0.3)	6873.0 (0.6)	
1297.2 (8.4)	2037.2 (0.6)	2253.7 (0.6)	0.6 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1301.9 (2.4)	2074.6 (0.6)	2253.7 (0.6)	0.6 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1306.4 (0.2)	2077.2 (0.6)	2253.7 (0.6)	0.6 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1316.5 (0.2)	2088.8 (0.6)	2253.7 (0.6)	0.6 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1320.5 (0.3)	2110.4 (0.6)	2253.7 (0.6)	0.6 (0.6)		1555.0 (0.3)	6873.0 (0.6)	
1338.4 (0.1)	2126.5 (0.4)	2253.7 (0.6)	0.4 (0.4)		1555.0 (0.3)	6873.0 (0.6)	
1350.5 (0.1)	2132.0 (0.4)	2253.7 (0.6)	0.4 (0.4)		1555.0 (0.3)	6873.0 (0.6)	
1364.9 (0.3)	2139.2 (0.4)	2253.7 (0.6)	0.4 (0.4)		1555.0 (0.3)	6873.0 (0.6)	
1368.2 (0.1)	2142.8 (0.4)	2253.7 (0.6)	0.4 (0.4)		1555.0 (0.3)	6873.0 (0.6)	

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)
80Br (cont.)					
84.6 (<0.1)	175.1 (1.0)	305.3 (0.1)	529.3 (1.0)	1022.2 (0.8)	3687.6 (0.2)
85.0 (0.1)	176.6 (1.9)	305.7 (0.1)	531.1 (0.7)	1034.0 (0.6)	3691.5 (0.2)
87.8 (<0.1)	176.8 (<0.1)	307.7 (<0.1)	538.8 (0.4)	1036.9 (0.6)	3726.0 (0.2)
88.1 (0.3)	179.8 (0.7)	311.1 (0.4)	542.5 (6.3)	1051.0 (0.8)	3758.8 (0.2)
88.2 (<0.1)	181.6 (0.3)	312.2 (<0.1)	543.5 (0.8)	1055.3 (2.3)	3773.0 (0.2)
88.8 (<0.1)	182.8 (<0.1)	312.8 (0.3)	545.6 (0.4)	1074.5 (0.7)	3816.1 (0.2)
88.8 (<0.1)	184.2 (<0.1)	315.0 (21.0)	549.6 (3.0)	1078.7 (0.9)	3829.3 (0.2)
89.2 (<0.1)	185.6 (<0.1)	315.5 (2.5)	557.3 (2.0)	1085.7 (0.4)	3906.1 (0.3)
90.4 (<0.1)	187.1 (<0.1)	316.1 (0.3)	558.8 (0.7)	1087.6 (0.4)	3924.8 (0.3)
90.6 (0.3)	187.6 (<0.1)	319.6 (0.1)	559.1 (0.6)	1107.9 (0.9)	3948.5 (0.2)
92.7 (<0.1)	188.0 (0.1)	321.9 (0.8)	560.6 (0.4)	1143.4 (1.1)	3951.8 (0.2)
93.4 (<0.1)	190.6 (0.6)	322.3 (3.7)	567.2 (0.4)	1148.1 (1.4)	3959.1 (0.2)
95.2 (0.2)	191.6 (0.1)	324.2 (0.1)	570.0 (1.3)	1155.9 (0.3)	3997.5 (0.3)
95.9 (<0.1)	192.4 (0.1)	329.6 (0.9)	572.4 (1.4)	1157.9 (0.5)	4024.4 (0.4)
97.3 (0.1)	193.1 (<0.1)	333.8 (0.2)	579.4 (0.3)	1164.4 (0.3)	4038.7 (0.3)
99.2 (0.5)	193.9 (<0.1)	334.2 (0.3)	581.4 (0.5)	1174.7 (0.5)	4058.0 (0.3)
99.6 (<0.1)	194.2 (<0.1)	341.0 (0.1)	583.2 (0.5)	1182.1 (0.4)	4074.5 (0.3)
101.7 (<0.1)	194.8 (0.1)	343.4 (6.3)	589.2 (0.2)	1190.5 (1.0)	4079.3 (0.4)
103.4 (<0.1)	195.6 (23.6)	344.9 (0.4)	590.3 (0.1)	1192.6 (0.4)	4102.6 (0.1)
104.4 (0.2)	197.6 (0.9)	345.3 (1.0)	593.3 (0.8)	1197.3 (0.6)	4111.8 (0.1)
105.1 (<0.1)	200.0 (<0.1)	345.6 (1.3)	594.9 (0.4)	1201.5 (0.5)	4117.1 (0.3)
105.3 (0.2)	201.8 (<0.1)	345.9 (0.3)	595.9 (0.9)	1219.1 (0.4)	4155.0 (0.3)
106.1 (<0.1)	203.3 (0.2)	346.5 (0.2)	598.9 (0.8)	1224.4 (0.5)	4162.8 (0.4)
106.8 (<0.1)	204.6 (<0.1)	349.3 (0.1)	604.6 (1.1)	1237.6 (0.2)	4191.1 (0.2)
107.2 (<0.1)	205.4 (<0.1)	351.0 (0.8)	606.4 (0.5)	1241.8 (0.2)	4229.8 (0.3)
107.5 (<0.1)	205.8 (<0.1)	352.8 (0.5)	608.8 (2.4)	1248.8 (3.1)	4235.5 (0.4)
109.1 (<0.1)	207.0 (<0.1)	353.8 (0.3)	619.3 (0.4)	1253.4 (0.3)	4245.3 (0.1)
110.0 (<0.1)	209.4 (<0.1)	357.4 (0.2)	628.3 (0.7)	1264.5 (0.6)	4251.7 (0.3)
110.2 (0.3)	210.9 (<0.1)	358.5 (0.3)	630.6 (0.1)	1273.6 (0.3)	4273.3 (0.1)
110.4 (<0.1)	211.6 (2.4)	360.4 (0.2)	636.7 (1.2)	1290.4 (0.3)	4291.6 (0.2)
111.0 (<0.1)	213.8 (0.4)	361.9 (0.3)	643.1 (0.3)	1298.9 (0.6)	4309.8 (0.2)
112.4 (0.2)	214.7 (0.3)	364.6 (0.2)	648.3 (1.8)	1319.9 (0.6)	4318.3 (0.2)
113.4 (<0.1)	216.0 (<0.1)	366.6 (14.0)	660.6 (4.5)	1322.4 (0.8)	4332.9 (0.3)
115.0 (<0.1)	218.8 (1.8)	369.7 (1.1)	668.1 (0.4)	1324.8 (0.6)	4337.6 (0.3)
115.6 (<0.1)	219.4 (19.6)	370.5 (1.2)	674.8 (1.8)	1329.5 (0.7)	4350.1 (0.2)
117.2 (<0.1)	220.0 (0.3)	372.5 (0.3)	678.6 (0.6)	1336.9 (0.4)	4359.9 (0.3)
119.3 (<0.1)	220.4 (0.3)	373.6 (0.6)	684.9 (1.5)	1351.5 (0.3)	4372.1 (0.3)
119.6 (<0.1)	221.5 (0.2)	375.8 (0.2)	687.0 (0.7)	1357.8 (0.5)	4395.5 (0.5)
121.8 (<0.1)	222.6 (<0.1)	377.4 (0.5)	690.1 (4.5)	1364.1 (0.6)	4403.1 (0.1)
122.0 (<0.1)	223.2 (0.1)	381.1 (1.0)	692.2 (0.4)	1379.9 (0.3)	4434.3 (0.3)
122.7 (<0.1)	223.6 (8.1)	382.2 (0.4)	702.1 (3.6)	1392.3 (0.8)	4440.2 (0.2)
123.3 (<0.1)	226.5 (0.2)	385.6 (1.4)	704.7 (1.5)	1401.7 (0.2)	4454.2 (0.3)
124.0 (2.0)	227.7 (<0.1)	388.3 (0.4)	707.4 (0.4)	1413.1 (0.7)	4466.6 (0.4)
124.3 (<0.1)	230.2 (0.1)	389.2 (3.0)	716.2 (0.8)	1429.1 (1.0)	4488.7 (0.3)
124.7 (<0.1)	232.8 (0.3)	392.8 (0.1)	721.5 (2.1)	1463.1 (0.4)	4506.2 (0.6)
125.1 (<0.1)	233.3 (0.1)	395.7 (0.1)	724.0 (0.6)	1480.9 (0.3)	4515.4 (0.4)
126.3 (1.2)	234.3 (10.7)	399.8 (0.1)	731.1 (0.7)	1498.6 (0.4)	4520.9 (0.6)
126.5 (<0.1)	235.3 (<0.1)	400.7 (0.2)	751.1 (1.6)	1539.8 (0.8)	4539.3 (<0.1)
126.7 (1.2)	236.5 (2.2)	406.4 (0.6)	755.5 (0.7)	1551.5 (1.3)	4547.0 (0.3)
127.6 (<0.1)	238.1 (0.2)	408.5 (0.3)	765.9 (3.2)	1555.4 (2.1)	4553.4 (0.4)
128.2 (0.1)	238.5 (0.1)	409.0 (0.7)	781.1 (0.4)	1581.1 (<0.1)	4568.2 (0.4)
129.0 (<0.1)	240.1 (0.5)	413.6 (0.6)	785.2 (1.8)	1630.0 (0.3)	4601.5 (0.1)
129.9 (<0.1)	242.3 (0.1)	414.2 (1.3)	788.2 (0.4)	1633.7 (0.3)	4609.8 (0.3)
130.8 (<0.1)	243.5 (0.5)	419.3 (0.2)	794.3 (0.4)	1645.2 (0.6)	4624.8 (0.3)
132.0 (<0.1)	244.2 (18.8)	421.2 (0.9)	808.9 (0.3)	1715.7 (0.4)	4636.8 (0.5)
132.4 (<0.1)	245.2 (39.9)	422.1 (0.6)	813.6 (0.8)	1729.2 (0.6)	4641.2 (0.4)
133.5 (0.1)	245.6 (0.7)	423.3 (0.1)	815.4 (2.5)	1734.6 (0.4)	4646.0 (0.4)
136.8 (0.3)	247.5 (0.4)	425.4 (0.4)	818.9 (0.4)	1743.0 (0.3)	4651.0 (0.4)
137.6 (0.1)	247.7 (0.2)	428.7 (0.1)	823.2 (0.2)	1753.6 (0.6)	4679.6 (0.2)
139.0 (<0.1)	254.0 (0.1)	432.2 (4.5)	827.2 (0.7)	1758.1 (0.4)	4725.3 (0.3)
139.8 (<0.1)	255.0 (<0.1)	434.0 (0.2)	830.7 (3.1)	1761.2 (0.4)	4740.6 (0.6)
140.6 (<0.1)	255.5 (0.2)	436.3 (0.3)	845.7 (1.4)	1795.2 (0.3)	4773.4 (0.4)
141.2 (<0.1)	256.6 (<0.1)	438.6 (0.6)	850.0 (0.4)	1811.3 (0.2)	4795.0 (0.1)
142.1 (<0.1)	257.8 (0.1)	445.7 (0.1)	860.4 (2.1)	1815.4 (0.4)	4815.3 (0.2)
143.4 (<0.1)	262.2 (0.2)	450.9 (0.7)	865.5 (0.5)	1851.6 (0.3)	4846.6 (0.4)
144.6 (<0.1)	263.5 (0.5)	452.6 (3.4)	876.4 (0.9)	1900.0 (0.4)	4853.0 (0.4)
145.0 (<0.1)	266.8 (1.0)	455.8 (1.6)	883.7 (1.5)	1905.5 (0.2)	4861.1 (0.6)
146.9 (1.0)	270.1 (0.3)	459.8 (2.5)	888.0 (0.8)	1911.7 (0.3)	4882.8 (0.3)
147.9 (<0.1)	271.4 (23.2)	464.3 (0.3)	890.0 (1.1)	1968.9 (0.6)	4898.1 (0.4)
148.3 (0.1)	272.5 (0.4)	469.0 (17.0)	908.9 (0.9)	1983.6 (0.5)	4913.3 (0.7)
152.4 (<0.1)	274.5 (8.1)	470.7 (1.0)	914.5 (3.1)	2072.3 (0.5)	4920.3 (0.3)
154.0 (<0.1)	276.0 (0.2)	476.1 (<0.1)	919.5 (1.2)	2311.5 (0.5)	4924.3 (0.6)
156.5 (<0.1)	276.1 (0.3)	479.1 (1.0)	921.8 (0.4)	2515.8 (0.5)	4934.1 (0.5)
158.7 (<0.1)	277.0 (0.1)	481.8 (1.1)	924.2 (0.3)	2526.0 (0.6)	4968.7 (0.3)
159.0 (0.9)	278.2 (0.6)	483.1 (0.8)	927.9 (0.5)	2595.5 (0.6)	4987.1 (0.3)
159.8 (1.1)	280.8 (0.1)	483.7 (0.8)	930.8 (0.2)	3166.7 (0.2)	5000.3 (0.2)
160.3 (<0.1)	283.7 (0.1)	484.3 (1.5)	933.7 (0.6)	3202.3 (0.2)	5012.1 (0.7)
160.7 (<0.1)	285.1 (0.1)	485.7 (0.8)	949.4 (0.8)	3259.1 (0.2)	5023.7 (0.9)
161.5 (<0.1)	290.1 (<0.1)	489.4 (0.4)	952.7 (0.7)	3401.0 (0.3)	5030.4 (0.2)
163.8 (<0.1)	294.0 (<0.1)	490.6 (0.8)	959.8 (0.3)	3415.3 (0.3)	5049.9 (0.7)
164.6 (<0.1)	294.3 (5.6)	492.9 (1.8)	962.6 (0.2)	3430.7 (<0.1)	5058.5 (0.4)
166.2 (<0.1)	296.9 (1.4)	494.0 (0.4)	967.9 (0.4)	3449.3 (0.2)	5079.4 (0.4)
168.7 (0.1)	297.8 (0.1)	498.2 (1.3)	970.8 (0.6)	3520.7 (0.3)	5091.7 (0.6)
169.5 (<0.1)	299.5 (0.8)	502.7 (0.2)	977.3 (0.8)	3571.3 (0.2)	5110.6 (0.4)
170.3 (<0.1)	299.9 (5.5)	504.5 (0.3)	1002.1 (0.9)	3598.6 (0.5)	5119.4 (0.3)
171.2 (<0.1)	303.0 (0.1)	523.5 (0.7)	1006.2 (0.4)	3609.3 (0.3)	5150.7 (0.3)
171.7 (<0.1)	305.0 (0.1)	526.5 (1.0)	1008.5 (0.5)	3636.3 (0.3)	5162.0 (0.2)

Table II. CAPTURE γ 's - nuclide sorted (cont.)

Er(keV) (%I γ)	Er(keV) (%I γ)	Er(keV) (%I γ)	Er(keV) (%I γ)	Er(keV) (%I γ)	Er(keV) (%I γ)	
80Br (cont.)						
5173.8 (0.2)	6701.7 (0.7)	5295.3	873.2 (39.5)	388.3 (33.1)	3540.3 (0.5)	
5191.9 (0.4)	6705.2 (0.6)	5469.7	882.0 (7.4)	484.6 (29.2)	3654.7 (0.3)	
5208.2 (0.8)	6744.2 (0.7)	6233.0	913.8 (10.0)	556.4 (1.1)	3701.7 (0.3)	
5217.4 (0.4)	6749.1 (1.2)	84Kr				
5231.1 (0.7)	6778.2 (0.3)	354.2 (0.3)	944.7 (4.2)	667.1 (1.8)	3773.0 (0.3)	
5272.4 (0.6)	6786.8 (0.3)	367.7 (1.2)	1026.9 (39.5)	839.0 (1.5)	3826.8 (0.3)	
5279.5 (0.4)	6827.3 (0.3)	382.2 (0.3)	1032.8 (31.1)	864.5 (11.7)	3880.8 (0.2)	
5288.9 (0.7)	6838.4 (0.6)	419.3 (1.5)	1105.3 (24.7)	910.2 (2.8)	3975.2 (0.5)	
5316.8 (2.0)	6866.2 (0.2)	424.7 (15.5)	1177.8 (5.3)	925.6 (3.0)	4020.5 (1.6)	
5336.6 (0.4)	6871.3 (0.6)	448.6 (<0.1)	1221.0 (5.8)	1263.3 (2.6)	4287.7 (<0.1)	
5353.3 (0.9)	6895.6 (0.6)	541.3 (0.8)	1305.2 (25.8)	4660.8 (7.2)	4348.1 (0.3)	
5357.0 (0.3)	6978.0 (0.8)	546.0 (1.0)	1389.6 (10.5)	5148.9 (1.7)	4552.0 (0.3)	
5366.5 (0.9)	6983.9 (0.4)	604.7 (1.0)	1440.0 (5.3)	5276.0 (4.6)	4604.8 (1.8)	
5393.8 (0.4)	7031.7 (3.0)	694.3 (0.3)	1667.9 (10.5)	5300.6 (3.8)	4724.0 (<0.1)	
5401.8 (0.8)	7070.7 (0.5)	738.1 (1.0)	1889.3 (20.0)	5361.0 (33.5)	4743.0 (<0.1)	
5422.3 (0.6)	7078.4 (3.5)	802.3 (5.5)	2130.0 (3.7)	5408.4 (19.2)	4854.7 (0.2)	
5446.7 (0.3)	7126.6 (1.1)	881.8 (100.0)	2149.7 (3.7)	5578.4 (5.0)	4987.6 (0.6)	
5462.2 (0.2)	7154.8 (0.1)	943.8 (6.4)	2352.5 (1.6)	5592.6 (1.3)	5101.7 (0.2)	
5472.7 (0.5)	7160.8 (0.3)	963.9 (2.3)	2475.7 (1.6)	5619.5 (0.7)	5161.5 (1.3)	
5494.6 (0.1)	7165.4 (0.2)	986.8 (0.9)	2570.4 (2.1)	5673.6 (1.7)	5256.3 (0.2)	
5509.5 (2.6)	7188.3 (0.4)	1016.1 (3.8)	2585.7 (2.6)	5738.4 (1.3)	5276.8 (0.5)	
5534.2 (0.6)	7231.7 (1.2)	1077.6 (1.5)	2598.1 (1.1)	5751.0 (6.0)	5300.8 (0.7)	
5546.0 (0.2)	7343.0 (0.2)	1088.6 (0.3)	5760.7 (5.1)	5991.2 (1.4)	5361.5 (0.5)	
5567.2 (0.7)	7423.3 (3.6)	1124.5 (2.6)	5800.4 (1.7)	6013.2 (13.3)	5423.3 (1.3)	
5572.1 (1.3)	7511.9 (0.8)	1213.2 (44.0)	5823.2 (0.2)	6175.5 (1.1)	5451.7 (<0.1)	
5589.0 (0.6)	7561.5 (0.2)	1228.6 (1.1)	5840.8 (0.8)	6258.8 (7.1)	5577.3 (0.2)	
5614.8 (0.6)	7577.6 (8.1)	1293.3 (0.8)	5885.7 (2.1)	6319.3 (7.8)	5593.8 (0.3)	
5628.4 (0.8)	7611.0 (0.7)	1463.5 (31.0)	5932.3 (0.6)	6430.8 (2.1)	5685.4 (1.6)	
5652.2 (0.5)	7620.8 (0.4)	1490.6 (0.9)	5980.2 (3.8)	7554.0 (5.3)	5790.8 (1.9)	
5660.3 (0.2)	7635.9 (0.4)	1542.5 (1.4)	6052.9 (1.4)	8039.8 (100.0)	5850.0 (6.4)	
5673.5 (0.8)	7892.5 (0.5)	1622.5 (0.6)	6064.5 (4.4)	88Sr		
5679.6 (0.7)	81Se		6081.9 (0.6)	434.0 (2.4)	6101.8 (4.8)	
5694.0 (0.3)	102.9	1656.0 (0.3)	6142.7 (0.9)	585.5 (5.2)	6267.1 (8.5)	
5729.8 (0.4)	126.0	1742.4 (1.0)	6173.3 (0.6)	850.5 (24.6)	6661.0 (6.9)	
5736.7 (0.3)	148.0	1878.7 (1.3)	6188.7 (3.6)	867.6 (1.3)	6699.2 (1.2)	
5743.0 (0.5)	156.4	1897.6 (9.6)	6247.5 (0.4)	898.0 (84.0)	6812.7 (0.3)	
5757.6 (0.5)	191.0	2159.6 (4.2)	6297.7 (0.5)	918.1 (<0.1)	6842.7 (0.9)	
5782.7 (0.2)	264.8	2200.2 (1.5)	6319.1 (0.4)	937.0 (0.4)	6885.3 (5.2)	
5833.4 (0.3)	388.4	2760.9 (1.7)	6352.0 (2.0)	974.8 (<0.1)	6942.8 (6.6)	
5838.9 (0.4)	399.8	6519.1 (4.2)	6385.0 (2.3)	993.6 (<0.1)	7159.8 (0.3)	
5868.7 (1.5)	467.7	6803.5 (3.1)	6471.2 (3.5)	1058.1 (0.6)	7477.3 (0.7)	
5873.5 (0.5)	491.3	6880.7 (6.7)	6503.2 (1.7)	1150.8 (0.3)	7528.4 (8.0)	
5883.9 (0.5)	649.5	6931.7 (2.6)	6520.3 (6.2)	1218.5 (4.6)	8378.9 (2.3)	
5906.8 (0.6)	672.2	7301.0 (0.3)	6697.8 (1.0)	1383.0 (2.2)	90Y	
5916.7 (2.2)	757.6	7478.6 (0.4)	6724.8 (0.9)	1434.9 (2.0)	202.4 (47.5)	
5923.4 (1.0)	765.0	7749.9 (0.5)	6735.5 (0.6)	1442.1 (2.0)	274.7 (27.5)	
5929.0 (0.4)	786.4	7820.5 (0.3)	6759.4 (0.9)	1474.4 (0.8)	776.7 (100.0)	
5942.6 (0.4)	812.5	8174.7 (<0.1)	6831.4 (5.8)	1492.9 (1.0)	978.3 (2.3)	
5954.7 (1.8)	835.7	8423.8 (0.9)	6843.0 (1.1)	1535.2 (2.5)	1212.7 (7.5)	
5973.5 (0.4)	915.4	8618.9 (<0.1)	7180.7 (0.6)	1566.4 (1.0)	12748.9 (1.5)	
5985.5 (0.3)	938.7	9636.4 (0.3)	7211.8 (1.6)	1678.4 (<0.1)	14106.7 (6.8)	
5991.7 (0.1)	949.7	88Rb		1718.0 (10.0)	14659.3 (0.5)	
6005.2 (0.5)	1087.2	53.9 (7.4)	7261.2 (1.3)	1737.0 (<0.1)	15645.0 (2.8)	
6041.8 (0.3)	1162.0	60.9 (12.1)	7345.8 (5.8)	1761.1 (1.7)	16079.8 (85.0)	
6054.4 (1.0)	1201.0	85.9 (6.3)	7455.3 (0.7)	1779.8 (1.5)	6647.0 (0.8)	
6059.9 (0.8)	1210.8	89.6 (1.1)	7544.0 (1.3)	1799.1 (3.1)	91Zr	
6079.4 (0.8)	1232.7	96.3 (3.2)	7672.2 (0.6)	1836.1 (100.0)	2186.5 (100.0)	
6148.0 (1.5)	1243.5	114.1 (6.8)	7776.1 (0.2)	1881.6 (2.0)	3013.1 (10.4)	
6173.1 (1.3)	1257.1	120.3 (3.7)	8093.2 (1.6)	1902.5 (1.0)	3025.6 (35.8)	
6219.9 (0.5)	1360.7	139.3 (4.2)	8161.5 (0.4)	1934.1 (1.5)	5693.8 (16.4)	
6225.0 (0.3)	1367.2	165.7 (10.5)	8650.7 (1.8)	1953.7 (2.0)	92Zr	
6247.1 (1.2)	1406.7	176.1 (3.7)	87Kr		219.2 (<0.1)	
6268.2 (0.4)	1549.4	198.8 (3.7)	181.6 (8.0)	2082.0 (0.6)	224.7 (<0.1)	
6275.5 (0.6)	1599.8	223.9 (4.2)	341.3 (17.0)	2111.5 (2.9)	257.6 (0.7)	
6292.1 (0.3)	1627.1	232.4 (1.1)	531.9 (80.0)	2140.4 (0.4)	272.8 (<0.1)	
6310.6 (0.6)	1636.2	240.4 (5.3)	773.1 (10.0)	2159.3 (0.3)	295.8 (<0.1)	
6342.7 (0.2)	1702.2	284.4 (1.6)	866.2 (37.0)	2166.5 (0.4)	333.9 (0.2)	
6356.5 (2.3)	1706.6	315.9 (1.6)	892.2 (26.0)	2203.4 (2.5)	344.8 (<0.1)	
6370.9 (0.5)	1711.0	323.1 (2.6)	944.2 (13.0)	2252.5 (1.4)	352.3 (0.4)	
6402.2 (0.6)	1725.4	361.8 (7.4)	1055.4 (11.0)	2276.4 (3.8)	366.6 (<0.1)	
6438.3 (0.8)	1784.8	421.6 (30.0)	1064.8 (7.0)	2298.8 (0.6)	378.2 (0.2)	
6468.7 (0.3)	1828.1	488.0 (57.4)	1304.9 (17.0)	2335.2 (0.3)	379.6 (0.3)	
6476.0 (0.2)	1841.9	514.8 (7.9)	1475.9 (100.0)	2367.6 (0.5)	403.8 (0.5)	
6489.0 (0.4)	1865.3	525.2 (2.1)	1839.8 (21.0)	2615.7 (0.7)	448.2 (4.8)	
6501.7 (0.6)	1884.2	530.0 (3.7)	2005.2 (10.0)	2677.7 (0.4)	492.4 (2.4)	
6525.3 (0.3)	1892.0	536.9 (16.3)	2062.9 (25.0)	2734.1 (0.7)	561.0 (22.5)	
6533.5 (1.4)	1959.5	538.9 (16.3)	2122.4 (29.0)	2758.0 (0.9)	569.5 (<0.1)	
6570.1 (0.7)	2149.6	555.3 (42.1)	2295.2 (33.0)	2903.6 (0.4)	571.4 (<0.1)	
6571.9 (0.6)	2485.6	557.0 (100.0)	2331.5 (11.0)	3009.5 (8.0)	588.3 (<0.1)	
6612.8 (0.7)	2570.0	564.9 (3.2)	2348.2 (31.0)	3060.5 (0.2)	590.7 (<0.1)	
6643.7 (1.5)	2748.3	639.5 (15.3)	2887.8 (26.0)	3220.0 (0.6)	601.1 (<0.1)	
6646.9 (0.9)	4133.7	669.1 (4.2)	3143.3 (45.0)	3277.0 (0.2)	632.1 (<0.1)	
6668.6 (1.0)	4366.2	691.9 (12.1)	3392.6 (85.0)	3428.0 (0.2)	680.6 (<0.1)	
6671.0 (0.9)	4447.5	727.8 (6.3)	4039.6 (43.0)	3487.0 (1.2)	700.1 (0.5)	
6689.6 (0.9)	4976.1	748.6 (3.2)	4983.1 (28.0)	3522.6 (0.5)		
6694.2 (1.1)	4997.5	817.3 (3.7)	87Sr			
			356.7 (0.6)			

Table II. CAPTURE γ 's - nuclide sorted (cont.)

E _γ (keV) (X17)	E _γ (keV) (X17)	E _γ (keV) (X17)	E _γ (keV) (X17)	E _γ (keV) (X17)	E _γ (keV) (X17)
922r (cont.)	186.2	364.9 (0.5)	1456.2 (0.5)	5247.2 (1.0)	6728.1 (0.1)
790.7 (0.3)	253.1	369.7 (1.6)	1459.0 (0.6)	5252.8 (<0.1)	6743.9 (<0.1)
808.2 (0.1)	255.9	371.6 (0.5)	1461.1 (0.4)	5260.8 (<0.1)	6759.8 (<0.1)
821.1 (<0.1)	277.9	405.1 (<0.1)	1463.3 (0.4)	5264.8 (<0.1)	6767.5 (<0.1)
842.7 (0.5)	293.2	406.5 (<0.1)	1497.8 (6.1)	5279.5 (<0.1)	6787.0 (<0.1)
844.2 (6.1)	303.2	423.9 (<0.1)	1507.9 (0.5)	5284.3 (0.4)	6819.4 (6.8)
877.5 (0.2)	309.9	434.6 (0.1)	1528.0 (0.5)	5317.4 (0.2)	6934.5 (<0.1)
884.7 (0.6)	319.8	459.9 (0.6)	1592.9 (0.3)	5326.2 (0.1)	7058.4 (<0.1)
891.0 (<0.1)	329.2	468.3 (0.2)	1607.5 (0.3)	5332.3 (0.1)	7176.2 (<0.1)
902.9 (3.4)	337.6	480.5 (1.4)	1611.8 (0.5)	5347.6 (<0.1)	7528.1 (1.5)
912.8 (9.2)	355.5	516.1 (<0.1)	1625.7 (1.6)	5377.1 (<0.1)	7656.4 (0.2)
934.5 100.0	385.2	555.5 (0.2)	1647.6 (0.9)	5389.6 (0.2)	8375.8 (1.3)
972.3 (1.8)	454.5	568.8 (1.2)	1657.6 (0.5)	5395.8 (0.1)	
990.5 (2.7)	459.0	591.2 (1.3)	1702.8 (0.9)	5404.8 (0.4)	
1032.0 (<0.1)	484.8	593.2 (0.6)	1709.0 (0.4)	5418.8 (<0.1)	152.2 (<0.1)
1103.4 (0.4)	499.5	608.7 (5.8)	1761.8 (0.9)	5424.1 (<0.1)	155.3 (<0.1)
1112.6 (0.1)	516.3	611.4 (0.5)	1793.9 (0.3)	5428.6 (0.2)	158.6 (0.2)
1132.1 (7.6)	527.1	615.8 (0.4)	1815.4 (0.3)	5447.3 (<0.1)	173.0 (0.7)
1162.7 (0.1)	562.1	626.8 (<0.1)	1826.8 (0.3)	5459.1 (0.2)	182.0 (<0.1)
1192.5 (<0.1)	591.1	705.7 (0.1)	1846.3 (1.1)	5464.5 (<0.1)	195.6 (0.1)
1209.2 (0.9)	600.9	709.7 (<0.1)	1856.1 (0.3)	5468.2 (<0.1)	202.8 (<0.1)
1222.4 (0.5)	641.3	719.5 (14.4)	1877.2 (0.4)	5474.8 (0.1)	239.2 (0.2)
1230.1 (0.1)	690.2	721.6 (1.2)	1918.6 (0.3)	5485.7 (0.1)	259.0 (4.5)
1248.1 (0.8)	751.4	736.9 (5.6)	1923.2 (1.1)	5517.1 (<0.1)	286.9 (<0.1)
1301.0 (0.1)	755.3	740.7 (0.5)	1957.2 (0.7)	5524.7 (<0.1)	298.2 (<0.1)
1405.2 23.2	776.3	746.8 (<0.1)	2008.5 (0.9)	5531.1 (0.8)	307.0 (<0.1)
1414.1 (0.9)	822.1	755.6 (0.5)	2011.8 (0.9)	5544.4 (0.9)	314.6 (<0.1)
1434.0 (0.9)	836.4	778.3 100.0	2066.8 (0.3)	5566.1 (0.2)	319.3 (0.5)
1436.2 (<0.1)	879.8	790.6 (1.0)	2112.1 (0.7)	5601.9 (1.5)	326.2 (0.5)
1463.0 (1.2)	884.9	800.4 (0.5)	2132.4 (0.2)	5613.8 (0.3)	335.4 (0.1)
1490.5 (0.5)	895.9	810.8 (0.4)	2151.7 (0.4)	5650.1 (0.4)	340.0 (<0.1)
1604.9 (0.7)	898.9	812.5 (1.1)	2208.6 (0.3)	5660.5 (<0.1)	346.8 (<0.1)
1652.8 (0.5)	948.2	819.5 (0.3)	2377.3 (0.5)	5671.3 (<0.1)	351.0 (0.7)
1763.4 (0.3)	958.8	847.7 17.1	2401.9 (0.8)	5682.7 (<0.1)	365.2 (<0.1)
1793.9 (0.2)	1100.2	849.9 21.5	2488.4 (0.1)	5689.4 (<0.1)	380.5 (0.2)
1847.3 (4.6)	1129.7	853.0 (1.9)	2502.2 (0.3)	5693.9 (0.2)	386.3 (<0.1)
1885.1 (0.8)	1184.3	864.8 (0.8)	2507.6 (0.5)	5705.7 (<0.1)	399.9 (0.3)
1974.9 (1.3)	1192.0	882.8 (<0.1)	2585.4 (0.4)	5712.3 (2.9)	402.2 (0.1)
1988.8 (2.6)	1206.6	891.5 (0.1)	2639.7 (0.4)	5720.8 (0.1)	411.4 (0.4)
2069.5 (0.1)	5729.2	902.4 (<0.1)	2663.8 (2.0)	5727.0 (<0.1)	434.5 (0.3)
2105.1 (2.1)	5766.4	914.6 (0.2)	4874.9 (0.2)	5737.6 (0.8)	447.0 (0.5)
2132.9 (1.0)	5771.3	925.5 (<0.1)	4880.1 (0.3)	5760.9 (<0.1)	449.1 (0.1)
2153.7 (0.4)	5881.7	928.4 (<0.1)	4886.3 (0.2)	5780.1 (<0.1)	455.1 (<0.1)
2328.1 (1.3)	5896.0	934.7 (<0.1)	4891.4 (<0.1)	5791.4 (<0.1)	458.7 (0.1)
2340.9 (0.4)	5907.4	944.2 (0.1)	4907.4 (0.2)	5818.6 (0.5)	490.3 (<0.1)
2436.9 (1.1)	5948.0	947.8 (0.1)	4914.3 (0.1)	5826.4 (<0.1)	493.4 (<0.1)
2447.3 (0.2)	5955.9	960.7 (0.2)	4919.9 (0.1)	5842.1 (<0.1)	500.5 (0.2)
2517.7 (0.8)	5965.1	966.3 (0.5)	4924.2 (0.8)	5854.5 (<0.1)	507.8 (0.6)
2537.1 (0.4)	5981.3	968.2 (1.6)	4933.6 (1.1)	5862.2 (<0.1)	545.0 (0.3)
2693.8 (3.2)	5996.2	976.2 (<0.1)	4941.6 (0.4)	5869.4 (0.2)	555.4 (0.7)
2705.7 (1.4)	6059.2	983.1 (0.3)	4952.0 (0.1)	5876.3 (<0.1)	557.1 (0.3)
2714.1 (0.4)	6070.7	991.7 (0.1)	4956.2 (0.4)	5900.8 (<0.1)	569.9 (0.3)
2894.9 (<0.1)	6143.7	997.3 (0.5)	4974.5 (0.1)	5908.1 (<0.1)	575.0 (0.3)
3263.2 (<0.1)	6166.3	1003.6 (<0.1)	4985.4 (<0.1)	5914.6 (<0.1)	594.6 (0.6)
3371.2 (<0.1)	6258.6	1013.2 (0.1)	4991.0 (0.3)	5921.0 (<0.1)	603.3 (1.0)
3472.5 (<0.1)	6292.8	1042.7 (0.4)	4999.9 (0.2)	5929.9 (<0.1)	644.9 (9.3)
3500.0 (<0.1)	6332.9	1046.2 (0.3)	5003.8 (<0.1)	5951.6 (1.0)	659.1 (0.3)
3832.7 (<0.1)	6408.8	1049.6 (<0.1)	5008.9 (0.3)	5967.4 (<0.1)	661.5 (0.3)
4804.7 (<0.1)	6435.8	1052.7 (0.3)	5014.2 (<0.1)	5976.0 (<0.1)	672.6 (2.5)
4986.1 (<0.1)	6597.3	1074.1 (0.3)	5018.4 (<0.1)	5987.5 (<0.1)	697.6 (0.5)
4995.6 (<0.1)	6832.7	1091.3 (10.1)	5027.4 (<0.1)	5998.3 (<0.1)	708.2 (0.2)
5006.3 (<0.1)	6896.1	1096.7 (0.4)	5038.9 (<0.1)	6019.8 (0.3)	713.9 (2.6)
5135.1 (<0.1)	6917.7	1106.4 (1.5)	5042.3 (0.4)	6066.4 (0.3)	722.7 (30.6)
5163.1 (<0.1)	7115.6	1109.1 (0.2)	5057.2 (<0.1)	6101.4 (<0.1)	734.8 (<0.1)
5182.4 (<0.1)	7170.1	1126.3 (0.3)	5062.8 (0.2)	6128.9 (1.0)	787.4 100.0
5263.6 (<0.1)	7189.0	1138.5 (<0.1)	5072.2 (0.1)	6167.3 (<0.1)	791.5 (2.0)
5347.1 (<0.1)	7229.3	1155.4 (0.3)	5077.4 (0.1)	6178.7 (0.2)	803.6 (0.2)
5359.5 (<0.1)		1164.5 (0.8)	5089.6 (<0.1)	6192.8 (<0.1)	811.5 (0.3)
5372.0 (<0.1)	96Mo	1190.2 (1.2)	5096.3 (<0.1)	6197.9 (<0.1)	814.2 (0.7)
5594.9 (<0.1)	159.6 (<0.1)	1200.1 (5.5)	5104.4 (<0.1)	6203.2 (<0.1)	823.4 (1.8)
5815.7 (<0.1)	192.7 (<0.1)	1202.1 (1.2)	5107.8 (0.2)	6335.2 (<0.1)	833.6 (1.3)
6236.3 (<0.1)	203.8 (<0.1)	1238.1 (0.7)	5118.1 (0.3)	6347.9 (<0.1)	840.4 (0.1)
6295.2 (<0.1)	206.1 (<0.1)	1240.9 (0.2)	5124.4 (<0.1)	6363.9 (1.3)	860.8 (0.4)
6568.2 (<0.1)	219.0 (<0.1)	1301.0 (0.1)	5127.3 (0.3)	6367.2 (0.1)	866.6 (0.2)
7139.2 (<0.1)	229.9 (<0.1)	1307.9 (0.2)	5133.2 (<0.1)	6390.7 (<0.1)	883.8 (0.2)
7252.9 (<0.1)	235.9 (<0.1)	1317.3 (4.5)	5140.8 (0.2)	6418.2 (<0.1)	897.5 (0.1)
7701.2 (<0.1)	239.4 (<0.1)	1320.9 (0.1)	5148.0 (<0.1)	6449.7 (<0.1)	900.9 (0.7)
8634.9 (<0.1)	241.2 (0.9)	1346.8 (0.5)	5160.9 (<0.1)	6454.2 (0.3)	909.6 (1.7)
	259.2 (<0.1)	1352.9 (0.3)	5172.9 (<0.1)	6507.1 (<0.1)	944.7 (0.6)
	266.8 (<0.1)	1360.4 (0.2)	5177.4 (0.2)	6529.1 (0.1)	952.7 (0.1)
94Nb	279.5 (0.3)	1386.0 (0.5)	5187.3 (<0.1)	6559.7 (0.2)	971.0 (4.7)
54.7	283.0 (<0.1)	1396.3 (0.7)	5193.3 (0.1)	6576.5 (<0.1)	974.9 (0.5)
78.7	288.5 (<0.1)	1398.4 (0.5)	5196.5 (<0.1)	6583.2 (<0.1)	985.5 (0.4)
99.4	293.9 (<0.1)	1404.3 (0.2)	5202.4 (<0.1)	6613.9 (0.2)	987.6 (0.3)
113.4	298.7 (<0.1)	1425.1 (0.6)	5215.7 (0.3)	6673.0 (0.8)	996.1 (0.8)
126.0	349.7 (1.3)	1434.7 (<0.1)	5222.1 (0.2)	6705.2 (<0.1)	1017.1 (0.3)
150.5	352.3 (0.3)	1440.9 (0.7)	5227.2 (<0.1)	6715.5 (<0.1)	1023.6 (7.7)
161.3					

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)
98Mo (cont.)					
1050.8 (0.2)	5262.3 (<0.1)	466.3 (17.7)	554.6 (25.8)	4907.5 (1.3)	161.6 (4.7)
1053.1 (0.6)	5283.7 (<0.1)	554.2 (15.0)	581.2 (2.1)	5058.4 (0.5)	165.3 (4.7)
1062.2 (0.3)	5302.0 (0.3)	583.9 (14.2)	582.9 (20.7)	5122.7 (1.4)	166.0 (0.4)
1064.4 (0.6)	5316.1 (0.2)	608.1 (7.5)	588.4 (2.1)	5324.9 (1.1)	168.3 (2.4)
1091.2 (1.1)	5333.7 (<0.1)	716.4 (33.6)	589.3 (6.8)	5327.2 (1.2)	169.4 (14.4)
1093.2 (1.3)	5356.8 (0.1)	796.9 (8.8)	592.2 (6.5)	5457.8 (3.3)	170.3 (3.0)
1110.8 (1.5)	5370.9 (0.2)	810.8 (4.1)	600.6 (1.7)	5495.5 (1.6)	171.7 (0.2)
1140.8 (0.4)	5385.2 (<0.1)	972.9 (32.7)	625.8 (10.5)	5570.9 (1.5)	172.1 (1.4)
1155.8 (0.2)	5405.3 (0.2)	997.7 (5.8)	630.0 (2.7)	5639.8 (1.4)	173.2 (0.1)
1178.1 (0.4)	5411.0 (<0.1)	1031.1 (9.7)	639.0 (2.7)	5669.1 (2.9)	173.8 (<0.1)
1187.6 (0.4)	5426.9 (<0.1)	1055.0 (6.2)	658.3 (4.9)	5677.3 (1.5)	174.4 (1.0)
1193.3 (0.6)	5431.5 (0.4)	3288.3 (5.3)	661.5 (7.0)	5684.0 (1.6)	174.9 (0.3)
1230.2 (15.8)	5446.4 (0.1)	3419.8 (4.4)	678.1 (1.1)	5801.9 (0.5)	175.8 (0.3)
1241.2 (0.2)	5476.4 (0.1)	3537.2 (13.3)	692.5 (1.1)	5826.6 (0.9)	176.3 (<0.1)
1249.9 (0.4)	5487.0 (0.2)	3551.2 (4.4)	694.3 (1.0)	5885.7 (2.5)	176.4 (0.3)
1254.6 (0.3)	5493.3 (<0.1)	3698.6 (15.9)	704.4 (0.4)	5934.8 (0.2)	177.9 (9.6)
1259.8 (0.3)	5497.9 (<0.1)	3711.3 (10.6)	706.9 (1.2)	6057.9 (1.3)	178.8 (15.8)
1285.4 (2.2)	5520.6 (<0.1)	3762.1 (12.4)	727.1 (0.9)	6096.8 (1.1)	180.9 (100.0)
1287.2 (3.8)	5527.1 (<0.1)	3778.4 (7.1)	731.7 (1.8)	6232.0 (1.5)	186.0 (6.7)
1317.4 (3.1)	5533.4 (0.5)	3838.5 (7.1)	733.3 (2.1)	104Rh	
1323.9 (0.3)	5538.8 (0.3)	3938.9 (7.1)	736.9 (7.5)	31.8 (<0.1)	187.9 (1.4)
1348.4 (0.2)	5551.7 (<0.1)	3950.4 (16.8)	739.7 (3.1)	32.2 (1.4)	188.8 (0.3)
1359.7 (0.3)	5592.1 (<0.1)	4048.0 (13.3)	769.2 (3.1)	35.9 (1.0)	199.5 (0.3)
1370.1 (0.8)	5596.3 (0.2)	4106.3 (38.1)	771.5 (4.1)	39.4 (0.7)	200.3 (0.3)
1388.0 (0.4)	5618.6 (<0.1)	4298.3 (2.7)	774.9 (5.1)	43.5 (0.9)	200.8 (3.3)
1394.2 (0.7)	5652.8 (<0.1)	4387.6 (23.9)	791.3 (1.3)	45.3 (1.5)	201.8 (0.3)
1406.3 (0.2)	5661.2 (<0.1)	4495.9 (2.7)	803.8 (2.0)	51.4 (51.2)	202.8 (7.2)
1419.4 (2.5)	5665.0 (0.2)	4543.7 (3.5)	805.2 (2.3)	55.4 (<0.1)	204.0 (0.3)
1432.3 (7.9)	5680.0 (1.6)	4559.4 (1.8)	837.8 (1.4)	62.1 (0.1)	207.5 (0.3)
1436.6 (0.7)	5686.5 (<0.1)	4681.7 (3.5)	863.1 (6.4)	70.4 (<0.1)	213.1 (7.2)
1447.6 (0.2)	5697.0 (<0.1)	4732.3 (2.7)	868.2 (3.9)	70.9 (0.5)	215.5 (21.1)
1452.3 (0.5)	5725.8 (<0.1)	4830.6 (5.3)	902.5 (3.4)	77.5 (0.8)	217.9 (30.6)
1467.1 (0.6)	5778.8 (<0.1)	5069.3 (1.8)	904.9 (2.3)	80.7 (2.3)	218.5 (1.4)
1472.9 (0.1)	5794.5 (<0.1)	5104.3 (54.9)	907.4 (4.1)	83.7 (3.3)	220.0 (1.9)
1512.0 (0.3)	5817.2 (<0.1)	5398.6 (4.4)	937.5 (7.4)	85.4 (10.0)	220.7 (0.3)
1512.0 (0.5)	5841.8 (<0.1)	101Ru		85.9 (1.0)	222.9 (1.0)
1541.6 (0.5)	5874.5 (0.9)	4143.9 (32.0)	969.1 (1.5)	88.2 (0.4)	223.5 (0.2)
1545.9 (3.9)	5893.2 (<0.1)	4244.5 (40.0)	978.0 (2.6)	88.3 (<0.1)	224.3 (<0.1)
1555.4 (0.3)	5941.9 (0.1)	4483.1 (59.0)	994.9 (2.6)	89.0 (0.5)	227.1 (<0.1)
1598.8 (0.3)	6021.9 (0.1)	4620.3 (24.0)	1031.6 (1.7)	89.6 (<0.1)	228.7 (0.3)
1612.5 (0.5)	6069.4 (0.6)	4717.6 (44.0)	1034.4 (3.5)	94.3 (0.3)	232.1 (1.0)
1631.4 (1.4)	6080.0 (0.3)	4808.2 (18.0)	1036.6 (1.5)	95.2 (0.1)	233.7 (0.3)
1643.2 (0.2)	6102.2 (<0.1)	4839.2 (13.0)	1050.3 (2.6)	95.8 (<0.1)	234.1 (2.5)
1690.5 (0.3)	6116.0 (<0.1)	5279.9 (20.0)	1109.7 (1.2)	96.3 (<0.1)	235.8 (2.0)
1698.0 (0.8)	6134.1 (0.2)	5306.3 (63.0)	1172.1 (2.0)	97.1 (88.0)	236.5 (0.3)
1701.8 (0.8)	6156.7 (<0.1)	6092.7 (13.0)	1174.8 (1.9)	99.9 (<0.1)	237.2 (2.0)
1739.3 (0.5)	6174.2 (<0.1)	6248.2 (22.0)	1198.6 (7.3)	100.8 (20.6)	242.5 (0.1)
1748.0 (0.4)	6186.5 (<0.1)	6271.4 (100.0)	1211.0 (1.5)	103.9 (0.3)	245.6 (1.0)
1758.9 (0.4)	6218.9 (<0.1)	6608.3 (16.0)	1243.2 (2.5)	104.6 (0.3)	246.5 (0.3)
1774.7 (2.3)	6222.7 (0.7)	6682.1 (10.0)	1288.3 (2.9)	105.4 (2.2)	248.2 (1.9)
1785.4 (1.1)	6270.4 (<0.1)	103Ru		106.0 (0.9)	249.8 (1.4)
1833.0 (0.9)	6308.4 (<0.1)	2.7 (<0.1)	1332.2 (10.1)	106.7 (0.2)	255.3 (0.2)
1847.9 (0.5)	6338.5 (<0.1)	122.5 (0.5)	1369.6 (5.6)	109.0 (0.1)	261.0 (0.5)
1869.4 (0.6)	6380.8 (<0.1)	136.1 (96.9)	1400.6 (3.7)	109.5 (0.2)	261.7 (3.5)
1886.3 (0.4)	6392.6 (0.1)	160.1 (2.2)	1430.0 (4.8)	110.0 (0.3)	265.7 (1.4)
1913.1 (0.8)	6418.5 (<0.1)	174.0 (100.0)	1461.6 (2.1)	110.8 (0.1)	266.8 (10.5)
1945.1 (0.6)	6430.7 (<0.1)	201.8 (2.8)	1467.7 (1.8)	115.4 (0.3)	269.0 (7.2)
1979.9 (1.0)	6435.6 (0.6)	210.2 (19.5)	1544.3 (1.8)	115.7 (<0.1)	271.3 (1.0)
2017.4 (3.0)	6443.3 (<0.1)	210.6 (21.6)	1581.1 (2.6)	115.9 (<0.1)	273.5 (3.8)
2082.3 (1.1)	6451.7 (<0.1)	246.1 (3.1)	1604.4 (7.7)	116.4 (0.1)	278.5 (0.4)
2176.0 (0.6)	6514.9 (<0.1)	250.5 (28.4)	1699.6 (5.4)	116.9 (<0.1)	281.1 (0.4)
2258.7 (0.3)	6536.9 (<0.1)	257.5 (4.2)	1716.5 (4.3)	118.2 (2.1)	283.3 (0.2)
2280.5 (0.4)	6624.6 (16.1)	269.9 (12.9)	1730.3 (8.5)	119.0 (0.2)	284.7 (1.0)
4916.8 (0.2)	6740.1 (<0.1)	270.4 (28.6)	1743.9 (1.6)	119.5 (<0.1)	285.2 (0.3)
4927.3 (<0.1)	6760.7 (<0.1)	287.3 (3.8)	1838.9 (4.0)	123.7 (0.2)	286.2 (1.4)
4931.3 (0.3)	6878.9 (<0.1)	294.4 (69.3)	1859.6 (2.3)	123.9 (0.4)	287.0 (0.4)
4957.2 (0.1)	6883.5 (0.4)	314.9 (3.5)	1880.1 (2.1)	124.6 (0.3)	288.2 (0.4)
4981.5 (0.7)	7132.5 (0.5)	343.3 (7.9)	1959.5 (5.1)	125.6 (<0.1)	289.1 (1.0)
4988.4 (<0.1)	7208.8 (<0.1)	346.2 (31.8)	2027.8 (2.7)	127.3 (21.1)	290.2 (0.4)
5002.5 (0.2)	7854.6 (0.2)	359.0 (9.6)	2031.8 (2.1)	129.4 (1.2)	291.7 (0.2)
5017.6 (<0.1)	7907.4 (<0.1)	365.0 (2.0)	2075.6 (2.6)	129.9 (0.3)	293.3 (0.5)
5031.9 (0.3)	101Mo		2223.8 (11.9)	131.9 (1.7)	294.9 (0.8)
5052.1 (<0.1)	13.5 (<0.1)	373.9 (4.7)	2577.1 (3.3)	132.2 (0.3)	295.9 (0.7)
5080.3 (0.3)	43.5 (13.3)	378.4 (5.3)	3655.9 (10.0)	134.6 (25.4)	300.5 (0.5)
5090.6 (0.3)	81.1 (57.5)	380.3 (7.1)	4008.9 (12.1)	135.2 (4.8)	303.6 (2.2)
5108.6 (0.1)	118.6 (4.4)	388.5 (4.1)	4025.7 (14.2)	137.7 (1.8)	304.6 (1.1)
5125.5 (0.5)	147.6 (3.9)	403.1 (33.8)	4269.9 (16.8)	138.7 (2.3)	305.3 (3.3)
5132.2 (<0.1)	157.5 (72.6)	417.9 (2.1)	4326.1 (7.0)	139.4 (0.2)	308.0 (1.0)
5146.2 (<0.1)	180.7 (100.0)	426.8 (1.2)	4351.4 (18.1)	141.1 (<0.1)	311.5 (0.5)
5165.8 (<0.1)	237.6 (85.0)	428.8 (3.7)	4396.1 (9.3)	146.5 (0.1)	317.3 (3.3)
5170.0 (0.4)	276.1 (48.7)	432.0 (28.4)	4501.6 (6.3)	148.9 (0.1)	319.6 (1.0)
5212.8 (0.2)	281.1 (41.6)	455.9 (5.1)	4514.9 (5.7)	151.0 (0.2)	323.8 (6.7)
5222.3 (0.2)	289.6 (6.6)	487.2 (3.5)	4627.5 (22.1)	152.6 (0.1)	324.5 (3.3)
5231.7 (<0.1)	294.6 (71.7)	501.2 (13.3)	4801.0 (3.5)	157.1 (5.3)	326.4 (2.1)
5248.5 (<0.1)	305.3 (66.4)	525.5 (1.0)	4830.9 (5.3)	158.1 (0.2)	327.4 (0.8)
5255.1 (0.7)	330.0 (4.2)	545.5 (22.7)	4884.8 (4.7)	159.6 (1.4)	328.7 (0.8)

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)
104Rh (cont.)					
333.6 (12.0)	4724.9 (1.3)	6109.2 (1.2)	426.4 (0.8)	1930.9 (0.4)	6812.0 (0.2)
343.4 (0.9)	4743.3 (0.7)	6163.9 (0.3)	432.8 (0.8)	2039.6 (4.2)	6986.1 (<0.1)
349.2 (0.5)	4751.1 (0.6)	6171.8 (3.3)	439.0 (3.7)	2044.2 (0.9)	7061.7 (0.1)
351.1 (0.4)	4765.5 (0.4)	6182.5 (0.3)	442.0 (9.8)	2088.6 (2.1)	7075.1 (<0.1)
353.0 (2.4)	4773.4 (0.4)	6193.2 (0.6)	445.6 (6.7)	2092.4 (2.3)	7122.2 (0.2)
357.2 (2.4)	4778.6 (0.4)	6206.5 (0.2)	462.9 (34.4)	2127.6 (2.0)	7160.2 (0.2)
358.7 (1.9)	4800.6 (0.4)	6210.8 (3.8)	466.2 (6.1)	2156.4 (4.6)	7476.0 (0.1)
369.2 (1.0)	4811.8 (0.3)	6302.4 (0.9)	470.3 (1.2)	2162.1 (3.8)	7629.0 (0.2)
371.0 (1.9)	4824.3 (0.4)	6354.4 (2.2)	471.6 (1.3)	2288.9 (5.9)	7996.3 (<0.1)
374.9 (4.8)	4834.1 (1.8)	6379.7 (<0.1)	480.1 (3.2)	2302.3 (1.9)	8002.6 (<0.1)
380.4 (1.0)	4838.7 (0.1)	6406.9 (<0.1)	481.5 (0.2)	2307.8 (2.8)	8331.2 (0.2)
382.9 (1.9)	4848.2 (0.8)	6419.9 (0.5)	484.0 (<0.1)	2332.1 (1.3)	8433.6 (<0.1)
385.3 (2.9)	4858.2 (1.0)	6459.6 (<0.1)	490.8 (15.3)	2336.3 (0.7)	9049.8 (<0.1)
388.9 (1.0)	4863.2 (0.3)	6476.6 (0.2)	496.6 (0.6)	2357.1 (0.9)	
391.2 (1.4)	4900.6 (1.2)	6484.0 (0.2)	535.8 (<0.1)	2366.0 (1.6)	
397.2 (1.0)	4913.6 (1.9)	6514.5 (0.2)	538.3 (1.7)	2375.0 (1.2)	30.4
404.3 (1.7)	4923.0 (1.1)	6615.3 (0.4)	539.4 (6.1)	2392.7 (2.2)	45.5
408.5 (1.9)	4960.8 (0.6)	6657.5 (<0.1)	540.6 (4.3)	2398.4 (1.4)	79.1
409.4 (1.4)	4972.7 (0.5)	6726.6 (0.1)	562.7 (3.1)	2440.4 (5.0)	101.5
414.8 (1.4)	4978.3 (0.4)	6762.6 (0.1)	565.0 (22.7)	2451.8 (5.3)	113.6
420.6 (8.1)	5004.3 (1.1)	6785.6 (2.2)	578.0 (9.8)	2550.2 (1.8)	146.8
428.1 (4.2)	5020.9 (1.3)	6801.9 (<0.1)	581.6 (1.2)	2578.0 (2.8)	155.5
431.6 (1.9)	5031.4 (0.2)	6814.3 (0.2)	582.8 (1.9)	2689.6 (1.9)	164.8
440.6 (7.7)	5038.9 (0.2)	6820.2 (<0.1)	591.0 (0.7)	2721.1 (2.6)	178.1
460.2 (1.9)	5060.2 (0.4)	6859.3 (<0.1)	600.7 (0.9)	2746.3 (1.5)	192.8
463.7 (1.9)	5070.0 (0.5)	6902.3 (<0.1)	605.1 (1.3)	2799.3 (1.9)	206.2
470.2 (7.7)	5082.2 (0.4)	6948.0 (0.1)	618.0 (3.4)	2814.2 (1.2)	212.0
481.7 (5.3)	5094.0 (0.6)	6999.3 (0.9)	621.4 (0.4)	2890.2 (1.3)	232.5
489.3 (1.9)	5106.9 (0.8)		631.3 (8.5)	3298.8 (1.5)	245.0
497.9 (2.9)	5133.6 (0.6)	105Ru		3300.9 (3.4)	259.2
529.5 (2.9)	5142.9 (0.4)	20.6 (27.0)	640.3 (64.7)	3340.1 (1.7)	287.5
538.2 (8.1)	5152.8 (2.7)	48.9 (0.2)	644.0 (<0.1)	3345.3 (3.8)	294.8
548.5 (2.4)	5173.1 (0.5)	55.8 (4.9)	646.3 (5.8)	3405.7 (3.4)	299.5
555.5 (10.5)	5180.2 (0.5)	75.3 (13.5)	648.7 (<0.1)	3475.0 (2.6)	331.0
556.6 (3.8)	5186.8 (0.2)	80.6 (1.0)	657.0 (<0.1)	3482.5 (4.8)	338.1
609.0 (2.4)	5203.8 (2.5)	82.5 (38.0)	665.0 (0.7)	3492.3 (4.0)	5996.0
618.2 (1.4)	5217.6 (0.5)	87.4 (0.9)	684.0 (2.1)	3506.1 (7.9)	6025.0
633.6 (1.9)	5223.1 (0.5)	107.9 (84.7)	686.9 (2.1)	3523.7 (1.1)	6036.0
643.4 (7.7)	5237.7 (1.0)	112.5 (0.3)	692.3 (1.2)	3531.7 (2.6)	6053.0
702.5 (3.3)	5251.0 (0.6)	113.3 (6.7)	710.2 (1.7)	3539.5 (2.2)	6067.0
788.7 (4.8)	5257.3 (0.5)	121.6 (1.0)	714.1 (4.3)	3556.8 (1.4)	6110.0
4132.1 (0.5)	5266.4 (4.4)	136.5 (0.7)	716.6 (1.5)	3720.7 (2.1)	6131.0
4158.6 (0.7)	5268.0 (0.2)	138.4 (39.3)	722.8 (<0.1)	3761.7 (7.1)	6156.0
4165.3 (0.6)	5311.5 (0.3)	143.2 (100.0)	736.9 (1.1)	3776.2 (1.5)	6162.0
4181.4 (0.4)	5323.0 (1.0)	157.8 (17.8)	738.3 (1.0)	4065.2 (1.3)	6220.0
4187.2 (0.3)	5333.7 (0.3)	159.3 (93.9)	739.3 (5.5)	4076.7 (1.9)	6255.0
4216.2 (0.4)	5346.5 (6.9)	162.3 (4.3)	757.2 (<0.1)	4174.8 (16.0)	6265.0
4222.6 (0.2)	5354.9 (0.3)	164.7 (0.4)	763.5 (0.7)	4216.6 (9.0)	6292.0
4233.9 (0.5)	5391.5 (0.3)	169.2 (3.9)	778.2 (0.6)	4580.1 (2.7)	6370.0
4241.9 (0.2)	5399.2 (0.2)	174.3 (4.9)	792.4 (3.2)	4584.4 (10.4)	6388.0
4248.8 (0.7)	5413.5 (0.8)	191.5 (0.8)	796.2 (0.5)	4943.7 (3.7)	6561.0
4256.8 (0.6)	5422.9 (0.8)	193.0 (1.7)	797.4 (2.3)	5023.4 (76.7)	6568.0
4270.2 (0.4)	5434.5 (1.3)	208.9 (4.9)	803.8 (0.9)	5086.0 (1.9)	6651.0
4282.9 (0.4)	5456.8 (0.4)	213.7 (9.1)	804.9 (1.8)	5107.9 (6.9)	6689.0
4294.5 (0.4)	5463.3 (1.0)	218.2 (1.6)	813.0 (1.0)	5125.5 (20.7)	6704.0
4302.6 (1.3)	5472.5 (0.6)	223.8 (1.0)	824.4 (4.2)	5239.1 (1.2)	6720.0
4321.8 (0.7)	5507.6 (0.6)	225.7 (21.5)	829.2 (0.2)	5414.7 (2.3)	6759.0
4326.9 (0.6)	5521.0 (2.5)	229.5 (1.2)	831.5 (0.4)	5444.0 (9.6)	6802.0
4334.9 (0.3)	5527.0 (0.8)	242.5 (2.3)	839.3 (0.6)	5528.1 (3.1)	6807.0
4343.5 (0.5)	5546.6 (1.1)	244.4 (1.0)	847.8 (1.5)	5588.4 (23.3)	6816.0
4354.3 (0.8)	5587.9 (0.3)	246.3 (1.7)	848.7 (2.0)	5637.1 (4.9)	6929.0
4360.3 (0.6)	5604.4 (0.6)	252.1 (32.5)	862.8 (2.0)	5750.7 (9.8)	6934.0
4392.0 (0.3)	5616.5 (1.4)	272.7 (19.6)	867.2 (1.5)	5787.3 (2.3)	6974.0
4398.1 (0.7)	5634.4 (0.2)	280.3 (6.5)	878.5 (2.4)	5889.3 (6.7)	6982.0
4444.6 (1.4)	5656.0 (0.2)	281.0 (0.9)	883.5 (<0.1)	5909.9 (22.1)	7062.0
4455.9 (0.2)	5674.1 (0.8)	282.7 (1.1)	887.3 (0.7)		7076.0
4478.7 (1.5)	5695.1 (0.5)	300.9 (5.5)	889.0 (0.7)		7188.0
4483.9 (0.5)	5708.4 (0.7)	301.6 (2.1)	894.9 (1.5)		7267.0
4502.2 (0.8)	5713.5 (0.2)	303.0 (1.2)	895.7 (1.3)		
4515.4 (0.6)	5743.0 (0.1)	305.0 (3.1)	896.5 (1.9)		
4536.4 (0.8)	5757.7 (0.4)	306.8 (9.2)	909.1 (1.2)		
4542.8 (1.1)	5766.6 (0.3)	309.5 (2.6)	950.3 (1.3)		
4549.3 (0.5)	5786.8 (<0.1)	314.8 (2.5)	971.7 (0.4)		
4579.5 (0.8)	5797.8 (2.5)	321.5 (53.4)	1004.1 (3.5)		
4586.8 (0.2)	5803.4 (0.1)	322.4 (5.5)	1008.2 (3.3)		
4601.9 (0.6)	5812.2 (1.7)	323.3 (0.3)	1017.6 (1.2)		
4614.2 (0.5)	5836.5 (0.2)	331.6 (3.1)	1090.7 (5.1)		
4628.9 (2.5)	5880.9 (0.6)	333.3 (2.1)	1131.8 (4.4)		
4642.9 (0.3)	5906.5 (0.6)	339.4 (4.3)	1135.3 (2.6)		
4649.2 (0.3)	5916.5 (6.1)	352.8 (3.2)	1159.5 (2.5)		
4665.0 (1.0)	5927.1 (0.5)	356.4 (1.2)	1321.8 (2.0)		
4671.0 (0.7)	5934.9 (0.2)	357.9 (8.6)	1534.1 (5.4)		
4690.4 (1.0)	5948.6 (0.4)	358.5 (3.1)	1575.3 (2.4)		
4697.4 (0.7)	5966.6 (0.2)	396.4 (0.2)	1823.8 (0.7)		
4709.3 (0.2)	5989.8 (0.7)	397.8 (1.1)	1826.3 (2.0)		
	6046.0 (4.1)	408.2 (1.0)	1907.3 (1.3)		
	6082.8 (2.8)	418.6 (1.1)	1910.5 (2.3)		
		421.7 (0.5)	1926.7 (0.9)		
108Ag					
				430.4 (6.4)	
				513.0 (100.0)	
				615.9 (14.2)	
				717.3 (14.0)	68.6 (4.0)
				748.5 (1.6)	72.9 (11.9)
				804.7 (1.1)	79.8 (12.9)
				1048.1 (11.5)	93.4 (6.8)
				1127.8 (4.8)	101.9 (<0.1)
				1348.7 (0.8)	105.8 (14.6)
				1572.6 (2.9)	108.2 (<0.1)
				1926.8 (1.1)	114.0 (<0.1)
				1988.4 (0.9)	114.1 (<0.1)
				2457.5 (1.1)	115.7 (<0.1)
				2484.5 (1.1)	117.6 (54.1)
				2558.1 (0.6)	118.7 (<0.1)
				6489.1 (0.1)	123.6 (<0.1)
				6590.1 (0.2)	123.8 (<0.1)
				6624.8 (0.3)	125.2 (1.9)
				6652.2 (0.3)	136.6 (0.6)
				6735.4 (0.4)	144.1 (1.1)
110Ag					

 

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_{\gamma}(\text{keV})$ (λ)	$E_{\gamma}(\text{keV})$ (λ)	$E_{\gamma}(\text{keV})$ (λ)	$E_{\gamma}(\text{keV})$ (λ)	$E_{\gamma}(\text{keV})$ (λ)	$E_{\gamma}(\text{keV})$ (λ)
^{114}In (cont.)					
5968.2 (<0.1)	291.0 (7.6)	605.2 (1.6)	5532.1 (<0.1)	6118.0	5800.7
6002.2 (1.3)	293.2 (1.2)	608.4 (9.2)	5570.7 (0.4)	6419.0	5808.2
6070.7 (0.6)	293.6 (2.9)	617.9 (0.6)	5579.4 (0.6)	6589.0	5837.4
6074.4 (0.9)	295.5 (8.8)	622.6 (1.7)	5596.3 (<0.1)	6642.0	5857.9
6110.6 (0.2)	298.7 (28.9)	632.4 (3.9)	5617.3 (<0.1)	6830.0	5870.7
6117.9 (0.3)	299.5 (0.6)	634.1 (3.8)	5662.5 (<0.1)	6998.0	5885.3
6135.5 (0.4)	300.3 (1.6)	645.6 (1.2)	5688.4 (<0.1)	7265.0	5937.8
6161.9 (0.1)	303.1 (0.3)	648.0 (2.6)	5703.1 (<0.1)	7277.0	5951.2
6211.1 (0.4)	305.1 (2.9)	654.9 (1.5)	5713.3 (0.1)	7558.0	5981.2
6227.9 (0.3)	308.0 (<0.1)	657.2 (3.5)	5731.3 (0.3)	7634.0	6009.5
6236.8 (0.4)	315.0 (2.1)	662.2 (0.6)	5752.8 (0.3)	8094.0	6015.9
6254.9 (2.8)	318.6 (1.5)	669.8 (0.5)	5769.3 (0.7)	9318.0	6147.8
6276.6 (0.1)	319.4 (1.3)	672.2 (0.3)	5776.2 (0.3)		6163.8
6306.6 (0.1)	320.9 (4.5)	679.6 (0.3)	5807.0 (<0.1)		6174.5
6437.8 (1.1)	321.7 (2.0)	685.5 (0.6)	5811.9 (0.3)	122Sb	6322.2
6545.6 (0.2)	331.6 (1.2)	693.4 (3.6)	5834.8 (0.2)	28.6	6409.7
6577.3 (0.9)	335.5 (28.9)	703.0 (0.7)	5892.5 (4.2)	45.8	6472.5
6698.3 (<0.1)	337.7 (1.0)	706.2 (1.2)	5994.2 (<0.1)	61.4	6483.7
6776.6 (0.4)	337.7 (7.6)	711.3 (1.5)	6048.4 (0.2)	67.6	6494.9
7052.1 (0.2)	339.3 (1.4)	713.8 (1.6)	6057.0 (<0.1)	71.5	6523.4
7083.3 (0.1)	349.6 (0.8)	717.1 (1.9)	6125.3 (<0.1)	76.1	6550.3
	358.8 (0.9)	719.0 (3.3)	6134.9 (0.3)	86.7	6596.8
	359.5 (<0.1)	730.8 (4.1)	6229.0 (0.3)	88.3	6613.3
	365.2 (1.6)	737.2 (0.7)	6277.4 (<0.1)	101.6	6628.0
	368.6 (0.4)	744.5 (2.0)	6325.0 (0.3)	105.8	6639.2
	369.9 (0.2)	747.3 (1.3)	6410.4 (0.5)	114.9	6685.0
	372.7 (1.3)	749.6 (4.1)	6470.4 (<0.1)	118.3	6728.1
	373.3 (<0.1)	758.9 (2.9)	6559.3 (<0.1)	121.5	6744.6
	374.8 (1.7)	764.5 (4.3)	6656.3 (<0.1)	124.0	6806.2
	376.0 (8.1)	771.0 (3.6)		133.9	
	379.6 (3.0)	779.2 (2.0)		141.4	124Sb
	384.4 (8.8)	782.7 (1.1)	118Sn	148.2	34.6
	385.1 (28.4)	788.4 (1.3)	355.0 (0.6)	166.4	39.9
	387.7 (0.2)	791.5 (3.3)	374.1 (0.2)	177.4	40.8
	393.1 (1.2)	796.4 (2.2)	416.7 (1.6)	194.0	44.1
	394.7 (0.7)	801.2 (2.3)	435.4 (0.1)	201.5	51.4
	396.4 (1.1)	808.6 (1.3)	439.1 (0.2)	204.5	54.8
	402.3 (0.3)	814.1 (2.5)	463.4 (9.0)	228.1	67.0
	410.4 (2.3)	819.5 (2.5)	476.9 (0.6)	229.7	68.7
	422.2 (4.3)	822.6 (2.9)	733.8 (6.4)	232.1	73.9
	433.7 (17.4)	827.7 (0.3)	806.7 (0.9)	233.1	74.9
	436.0 (0.9)	830.8 (0.5)	818.1 (8.7)	249.8	77.1
	443.3 (1.3)	837.0 (1.0)	830.1 (0.4)	255.5	80.8
	447.4 (0.7)	844.2 (1.2)	931.8 (7.3)	272.2	87.6
	448.9 (0.5)	847.5 (5.1)	962.4 (1.2)	274.0	88.4
	452.6 (0.6)	852.3 (1.5)	972.6 (10.6)	282.6	89.9
	458.3 (1.7)	859.3 (1.3)	1096.9 (1.6)	288.5	94.0
	459.4 (<0.1)	874.3 (1.2)	1119.5 (0.9)	311.3	101.8
	465.5 (1.7)	877.2 (0.8)	1187.0 (0.7)	316.3	103.7
	468.6 (0.9)	885.1 (2.6)	1202.9 (1.8)	324.7	110.6
	471.8 (12.4)	886.1 (0.6)	1251.9 (2.1)	332.2	119.9
	474.2 (2.0)	903.7 (3.1)	1293.5 (100.0)	335.3	127.0
	475.9 (4.4)	910.8 (0.7)	1356.6 (5.4)	378.1	129.5
	476.7 (1.9)	915.3 (2.3)	1408.6 (0.5)	422.2	133.9
	485.6 (1.3)	925.3 (1.8)	1507.8 (0.9)	449.6	136.5
	490.0 (2.4)	930.6 (1.1)	1545.9 (1.1)	471.6	138.0
	491.6 (1.0)	934.1 (2.6)	1550.8 (1.5)	485.4	143.2
	492.5 (8.7)	939.6 (1.9)	1935.5 (0.7)	491.2	155.2
	497.7 (1.3)	944.3 (5.1)	2112.2 (13.8)	514.0	159.5
	500.2 (0.7)	947.7 (2.7)	2224.7 (7.7)	520.9	167.6
	515.7 (2.0)	956.3 (0.4)	2586.3 (3.2)	542.3	170.0
	515.9 (0.7)	963.1 (2.4)	2843.5 (2.1)	564.2	171.7
	517.9 (8.3)	965.7 (1.3)	2960.5 (2.0)	603.6	173.8
	518.1 (0.7)	968.9 (2.1)	3089.4 (2.8)	613.1	179.6
	521.5 (0.5)	972.5 (4.4)	3231.0 (1.6)	631.8	182.2
	521.6 (5.5)	982.7 (0.5)	3334.2 (4.0)	637.6	184.1
	524.3 (0.7)	986.0 (0.6)	3405.4 (2.0)	658.4	188.3
	540.5 (1.9)	992.1 (2.7)	3454.9 (2.2)	718.9	195.7
	545.5 (1.2)	997.7 (0.8)	3658.5 (2.2)	758.6	196.9
	548.7 (5.7)	1001.5 (0.7)	5904.0 (91.0)	796.5	202.9
	553.0 (0.9)	1019.5 (0.7)	6229.0 (94.0)	841.8	203.7
	555.4 (2.5)	1023.4 (2.5)	6333.0 (98.0)	875.9	206.9
	556.2 (4.9)	1026.0 (1.6)	6603.0 (100.0)	920.8	213.1
	556.7 (9.8)	1030.5 (1.1)	7018.0 (50.0)	9558.4	214.0
	559.9 (2.0)	1039.6 (1.8)	7338.0 (47.0)	5563.6	223.1
	564.2 (1.3)	1047.7 (0.6)	7450.0 (76.0)	5576.5	226.7
	565.0 (1.0)	1053.2 (0.6)	8269.0 (11.0)	5600.6	231.8
	567.8 (2.7)	1077.1 (4.2)	9562.0 (22.0)	5619.4	246.4
	573.7 (0.8)	5333.2 (1.9)		5628.4	252.8
	576.2 (1.3)	5347.0 (0.9)	118Sn	5677.3	258.1
	577.5 (5.2)	5358.4 (1.1)	4828.0	5690.8	264.3
	586.4 (0.8)	5384.9 (0.1)	5194.0	5737.6	269.4
	589.4 (1.3)	5409.9 (1.2)	5211.0	5762.8	270.5
	592.9 (1.4)	5442.7 (0.2)	5565.0	5775.7	274.0
	597.4 (1.6)	5481.7 (0.5)	5613.0		
	599.5 (0.7)	5499.1 (0.7)	5672.0		
	602.3 (7.8)	5525.8 (0.3)	6042.0		
			6063.0		

Table-II-16

[illegible]

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_{\gamma}(\text{keV})$ ($\pi 17$)	$E_{\gamma}(\text{keV})$ ($\pi 17$)	$E_{\gamma}(\text{keV})$ ($\pi 17$)	$E_{\gamma}(\text{keV})$ ($\pi 17$)	$E_{\gamma}(\text{keV})$ ($\pi 17$)	$E_{\gamma}(\text{keV})$ ($\pi 17$)	$E_{\gamma}(\text{keV})$ ($\pi 17$)	$E_{\gamma}(\text{keV})$ ($\pi 17$)
134Cs (cont.)							
261.2	8.1	554.8	3.1	1309.4	4.1	947.0	1.8
263.8	1.7	558.4	1.8	1403.6	2.3	1558.0	2.5
266.7	0.2	622.4	5.0	1441.9	1.3	1752.3	3.0
267.5	0.3	624.4	3.6	1469.0	<0.1	1952.3	3.5
269.0	4.3	633.1	2.0	1536.5	1.9	2242.0	5.0
271.4	1.8	638.2	2.4	1536.5	1.9	2249.0	3.3
272.2	2.4	645.8	3.8	1556.7	0.4	2552.5	8.5
274.4	0.1	648.6	1.3	1579.8	5.4	2557.0	3.0
275.0	0.3	663.3	2.9	1612.2	1.3	2594.1	3.0
277.6	1.5	682.5	2.4	1613.2	3.5	2642.0	8.0
279.7	1.4	708.6	3.2	1622.0	1.2	3431.4	20.0
285.0	1.0	455.1	<0.1	1822.4	2.2	4096.1	60.0
289.9	0.3	489.5	<0.1	1841.1	0.8		
290.7	0.4	495.3	<0.1	1880.8	2.6	140Ba	
293.3	3.0	4830.9	<0.1	1954.6	3.5	13.9	<0.1
295.4	3.6	4930.9	<0.1	2080.3	4.2	14.5	<0.1
296.2	1.9	5012.8	<0.1	2128.9	1.7	1657.0	6.8
302.5	2.4	5023.3	<0.1	2201.0	1.4	1678.0	0.1
303.2	2.4	5102.8	<0.1	2224.8	0.6	1733.6	2.1
305.1	1.3	5137.7	<0.1	2244.0	0.6	2044.7	5.8
307.3	27.4	5150.1	<0.1	2306.5	2.4	2208.0	<0.1
309.8	4.2	5160.7	<0.1	2377.0	3.6	2226.2	40.0
315.4	1.0	5201.9	<0.1	3044.7	1.5	2347.6	1.5
316.1	0.2	5206.0	<0.1	3076.0	<0.1	2348.6	1.5
317.1	0.5	5233.4	<0.1	3191.0	<0.1	2437.6	1.7
322.7	0.5	5330.0	<0.1	3517.8	<0.1	2500.2	1.0
327.0	1.3	5330.0	<0.1	3709.8	<0.1	2550.2	1.7
332.2	0.7	5330.0	<0.1	3739.2	0.1	2551.6	2.6
335.0	0.3	5359.0	<0.1	3793.7	0.5	2608.9	1.0
336.5	0.5	5359.0	<0.1	3860.7	0.7	2618.4	0.8
338.0	0.4	5376.9	<0.1	3913.8	0.2	2685.0	<0.1
342.8	0.4	5376.9	<0.1	3967.8	<0.1	2845.0	1.6
347.2	1.3	5505.3	<0.1	4137.2	0.4	2939.1	1.3
347.6	0.7	5505.3	<0.1	4422.5	1.3	3029.2	1.1
349.8	0.2	5565.6	<0.1	4429.0	2.1	3079.9	1.4
356.3	0.2	5572.5	<0.1	4436.8	1.5	3305.3	0.6
358.3	0.6	5623.5	<0.1	4536.8	0.4	3348.7	5.2
361.4	0.3	5623.5	<0.1	4631.7	0.9	3368.1	2.2
365.9	0.6	5629.0	<0.1	4761.7	0.2	3436.1	1.3
367.9	0.2	5730.9	<0.1	4891.0	0.2	3453.0	1.0
371.8	0.6	5811.2	<0.1	4891.0	0.8	3505.1	2.5
376.4	0.6	5862.7	<0.1	4929.4	1.2	3561.2	4.8
377.3	0.4	5862.7	<0.1	4973.0	0.4	3621.2	0.8
381.5	0.9	5915.3	<0.1	4973.0	1.0	3737.6	3.7
383.9	0.5	5943.7	<0.1	5098.3	2.5	3815.8	1.5
384.4	0.7	5951.2	<0.1	5098.3	0.4	3868.5	0.8
386.9	1.2	5976.0	<0.1	5141.0	0.7	4027.7	1.1
391.0	1.0	6051.6	<0.1	5281.5	3.3	4076.1	1.5
402.4	0.6	6138.1	<0.1	5340.3	2.2	4095.9	2.1
403.1	1.1	6175.8	<0.1	5340.3	2.2	4262.1	1.6
405.8	1.4	6189.4	<0.1	5501.8	1.0	4456.2	3.4
406.5	1.9	6246.1	<0.1	5573.2	0.4	4456.2	2.0
412.5	0.6	6319.4	<0.1	5708.9	0.2	4527.2	3.9
414.5	0.5	6408.0	<0.1	6087.4	0.3	4527.2	4.4
417.3	1.3	6337.9	<0.1	6374.9	0.3	4531.9	4.4
421.0	0.5	6315.0	<0.1	6507.4	0.3	4531.9	4.4
421.6	0.5	6621.6	<0.1	6578.2	0.2	4539.3	5.2
426.4	0.5	6698.0	<0.1	7026.4	0.7	4545.3	2.5
429.8	1.3	6714.6	<0.1	7254.3	0.2	4598.4	0.3
432.5	0.7			7554.3	0.2	4769.9	4.4
434.5	1.1	135Ba		8288.2	1.8	5117.2	2.9
439.0	2.1	4520.0		9106.5	2.9	5211.0	<0.1
442.9	4.6	4495.0				5570.8	<0.1
444.5	2.6	5146.0		137Ba		5730.4	4.1
450.3	12.0	5389.0		1998.0	81.8	5730.4	4.1
451.4	1.3	5510.0		4445.0	36.4	5973.4	3.0
454.1	1.2	5859.0		4712.0	7.3	6059.4	6.2
458.9	1.5	6399.0		6610.0	7.3	6421.5	<0.1
461.1	1.5					7176.8	<0.1
464.5	1.6	136Ba				8614.1	0.2
485.1	1.5	157.8	2.7				
487.4	1.8	164.0	<0.1	138Ba			
489.2	1.7	671.3	1.8	364.5	3.1	295.0	1.0
495.7	1.1	732.3	1.7	462.8	16.1	332.0	27.0
502.9	4.3	747.3	2.1	546.8	1.6	344.7	1.0
519.3	4.8	760.6	2.1	565.7	0.6	627.3	100.0
521.4	2.7	818.6	0.6	717.7	1.0	666.5	1.5
525.6	4.1	880.3	1.6	723.4	1.1	1047.4	3.0
528.6	2.4	981.3	1.6	753.8	2.6	1076.0	2.8
539.4	5.8	993.4	1.6	766.3	0.8	1105.0	1.0
540.7	6.7	1011.0	<0.1	772.2	1.3	1341.0	2.2
547.4	12.3	1047.7	12.2	782.8	1.0	1399.0	5.0
		1234.9	4.4	822.5	1.0	1440.1	2.1
		1261.0		870.9	4.2	1500.0	2.0
				934.2	0.7		

Table-II-17

Table II. CAPTURE γ 's - nuclide sorted (cont.)

Ex(keV) (X γ)	Ex(keV) (X γ)	Ex(keV) (X γ)	Ex(keV) (X γ)	Ex(keV) (X γ)	Ex(keV) (X γ)	
140La (cont.)						
3579.4 (1.0)	86.1 (10.3)	1163.0 (10.3)	3985.6 (0.6)	1515.3 (0.2)	392.6 (<0.1)	
3606.3 (5.1)	104.6 (3.6)	1177.9 (5.9)	3997.8 (1.5)	1521.3 (0.4)	399.4 (<0.1)	
3610.3 (4.1)	115.5 (4.2)	1218.1 (3.9)	4009.7 (2.6)	1529.1 (0.8)	401.3 (0.2)	
3637.0 (3.3)	124.6 (2.8)	1231.2 (6.0)	4013.4 (3.7)	1546.2 (0.3)	403.5 (0.4)	
3664.3 (13.3)	126.8 (28.9)	1248.5 (3.2)	4049.1 (1.2)	1557.6 (0.4)	406.6 (<0.1)	
3678.8 (17.3)	132.5 (0.2)	1273.5 (4.8)	4072.9 (0.7)	1572.2 (5.7)	409.9 (<0.1)	
3689.9 (5.1)	137.5 (0.7)	1318.3 (7.2)	4088.5 (2.2)	1578.6 (1.1)	434.3 (<0.1)	
3717.3 (3.1)	140.9 (42.3)	1328.2 (3.1)	4113.4 (1.1)	1586.0 (0.3)	447.7 (<0.1)	
3728.8 (7.1)	153.1 (1.1)	1331.8 (11.3)	4130.4 (3.4)	1620.5 (0.8)	462.8 (<0.1)	
3737.9 (3.1)	159.1 (0.6)	1413.1 (7.2)	4160.4 (3.1)	1628.5 (1.1)	469.0 (0.3)	
3759.0 (7.2)	159.3 (0.4)	1449.5 (9.3)	4173.3 (3.9)	1650.9 (1.3)	470.7 (0.5)	
3821.6 (2.0)	176.9 (100.0)	1467.4 (15.5)	4220.5 (1.0)	1662.9 (0.6)	488.3 (<0.1)	
3876.7 (0.7)	182.8 (39.2)	1577.7 (14.5)	4249.1 (4.4)	1674.9 (0.3)	493.7 (0.5)	
3901.3 (7.1)	186.0 (1.6)	1683.8 (9.8)	4274.0 (5.2)	1681.3 (0.8)	495.2 (0.1)	
3952.0 (3.1)	187.8 (4.5)	1702.8 (3.9)	4306.9 (0.4)	1736.8 (0.4)	500.2 (<0.1)	
3973.9 (1.0)	200.5 (3.5)	1796.6 (10.0)	4326.6 (0.4)	1748.7 (0.8)	517.9 (0.2)	
4012.6 (0.6)	221.3 (0.8)	1889.8 (6.0)	4343.3 (1.5)	1757.0 (0.6)	535.4 (0.2)	
4044.5 (3.1)	231.2 (1.3)	1943.3 (2.9)	4369.8 (3.4)	1782.1 (0.6)	546.8 (2.3)	
4060.7 (4.1)	244.5 (1.0)	2244.6 (2.5)	4438.2 (3.2)	1835.8 (1.1)	551.7 (0.2)	
4106.0 (3.1)	251.5 (1.6)	2257.6 (1.3)	4447.0 (1.9)	1843.2 (0.9)	563.8 (24.3)	
4125.5 (2.0)	268.3 (1.5)	2285.0 (2.2)	4494.8 (11.3)	1883.4 (0.3)	569.0 (0.2)	
4174.9 (0.6)	278.4 (1.8)	2288.5 (2.0)	4579.1 (0.9)	1902.8 (0.9)	570.7 (0.2)	
4192.5 (0.7)	281.6 (0.7)	2350.8 (2.5)	4591.6 (1.6)	1912.2 (1.5)	576.1 (0.7)	
4218.2 (0.9)	294.8 (2.8)	2355.2 (2.1)	4625.1 (0.6)	1922.6 (0.8)	652.0 (0.3)	
4242.7 (0.5)	327.5 (1.6)	2407.5 (9.0)	4661.4 (0.9)	1928.0 (0.3)	653.8 (0.4)	
4255.7 (0.8)	334.1 (2.1)	2436.1 (5.6)	4692.2 (33.0)	1949.9 (3.4)	655.2 (0.3)	
4364.5 (0.7)	336.8 (1.0)	2449.4 (2.5)	4723.2 (11.3)	1993.2 (0.6)	666.0 (<0.1)	
4389.7 (32.7)	341.6 (7.5)	2468.3 (1.6)	4801.2 (16.5)	2018.8 (3.2)	677.2 (0.3)	
4416.4 (33.7)	352.8 (1.9)	2479.1 (1.8)	4832.9 (0.6)	2027.9 (1.6)	678.2 (0.1)	
4450.4 (2.0)	360.6 (2.9)	2530.8 (1.4)	4864.6 (1.5)	2042.9 (0.7)	683.8 (0.1)	
4502.7 (22.4)	377.8 (1.0)	2562.3 (7.5)	4920.1 (0.4)	2061.3 (1.3)	694.0 (0.3)	
4559.2 (9.2)	384.4 (1.8)	2582.0 (1.1)	5005.0 (0.6)	2174.0 (0.7)	698.8 (0.2)	
4585.0 (0.9)	403.7 (3.3)	2597.7 (5.9)	5020.4 (1.8)	2190.3 (0.8)	700.3 (<0.1)	
4622.0 (2.0)	415.9 (0.9)	2619.4 (2.2)	5053.0 (3.8)	2201.8 (1.1)	714.7 (0.1)	
4842.5 (93.9)	431.5 (4.1)	2661.3 (1.4)	5096.2 (21.6)	2231.3 (0.2)	742.1 (100.0)	
4888.3 (20.4)	439.8 (3.1)	2688.5 (2.1)	5140.4 (39.2)	2244.1 (0.5)	746.0 (<0.1)	
4998.5 (2.0)	449.3 (3.5)	2713.7 (1.6)	5206.3 (4.1)	2271.2 (0.2)	756.3 (<0.1)	
5097.9 (100.0)	460.0 (9.8)	2727.1 (2.5)	5298.5 (0.6)	2276.0 (0.3)	763.9 (0.1)	
5126.6 (11.2)	509.0 (15.5)	2743.5 (1.0)	5480.2 (0.9)	2305.5 (0.4)	765.6 (0.2)	
5130.5 (7.1)	516.6 (13.4)	2839.8 (9.3)	5641.1 (1.3)	2433.6 (0.2)	797.2 (<0.1)	
5161.0 (12.2)	527.8 (4.4)	2905.5 (1.3)	5666.4 (43.3)	2446.8 (0.6)	806.2 (0.8)	
	546.4 (18.5)	2946.3 (5.6)	5698.7 (1.2)	2453.2 (0.6)	814.4 (5.5)	
	557.4 (14.4)	2963.4 (0.7)	5771.5 (3.5)	2494.5 (0.5)	823.6 (0.5)	
	560.2 (11.3)	2977.0 (1.4)	5825.7 (5.2)	2538.0 (1.3)	843.2 (0.4)	
	569.9 (10.3)	2998.6 (5.5)	5843.4 (15.5)	2568.1 (0.6)	850.2 (0.9)	
	573.4 (11.3)	3029.7 (1.0)		2596.5 (0.7)	866.3 (6.6)	
	612.2 (17.5)	3053.0 (1.1)	143Ce			
	620.2 (20.6)	3064.9 (1.1)	283.3 (0.4)	2657.6 (1.1)	877.8 (0.1)	
	631.2 (15.5)	3134.8 (1.8)	345.4 (<0.1)	2831.7 (0.9)	879.9 (<0.1)	
	634.2 (13.4)	3145.6 (2.1)	393.8 (<0.1)	2873.2 (1.4)	903.7 (<0.1)	
	645.7 (35.1)	3167.4 (2.1)	489.8 (0.7)	2913.4 (1.7)	917.2 (<0.1)	
	654.9 (7.2)	3192.3 (3.1)	632.3 (0.3)	2930.6 (0.8)	921.6 (0.5)	
	663.6 (2.1)	3221.4 (1.8)	645.5 (0.3)	2943.4 (0.8)	929.8 (0.3)	
	687.2 (9.3)	3227.8 (2.7)	696.9 (0.3)	3084.0 (5.1)	949.5 (0.2)	
	699.8 (20.6)	3259.2 (0.7)	731.6 (0.6)	3118.9 (1.2)	973.7 (0.4)	
	705.5 (7.2)	3268.5 (1.4)	738.4 (0.8)	3118.9 (1.2)	995.2 (<0.1)	
	718.6 (5.2)	3285.2 (0.9)	741.6 (0.7)	3153.1 (3.8)	1017.5 (1.0)	
	729.5 (9.3)	3313.9 (7.3)	766.0 (7.2)	3200.2 (2.6)	1023.3 (0.1)	
	738.0 (6.2)	3352.1 (1.3)	789.4 (16.1)	3232.5 (4.1)	1032.9 (8.9)	
	747.6 (18.6)	3366.1 (3.9)	808.3 (34.2)	3310.4 (3.2)	1042.2 (0.2)	
	753.1 (2.1)	3386.1 (1.4)	820.8 (0.2)	3517.0 (2.9)	1055.9 (1.5)	
	771.3 (4.1)	3402.6 (2.7)	830.8 (0.3)	3525.7 (2.9)	1057.5 (7.4)	
	790.5 (6.2)	3427.1 (1.4)	853.3 (0.4)	3573.1 (4.3)	1059.5 (0.3)	
	801.1 (9.3)	3451.0 (1.1)	862.2 (14.8)	3973.1 (0.7)	1070.1 (0.4)	
	805.6 (5.2)	3466.7 (2.2)	915.2 (0.5)	3991.7 (7.2)	1083.9 (0.2)	
	817.2 (2.1)	3502.7 (0.7)	963.2 (0.8)	4283.9 (9.8)	1099.7 (0.2)	
	823.4 (4.1)	3537.5 (6.2)	972.3 (1.7)	4337.8 (100.0)	1106.8 (0.5)	
	832.1 (3.1)	3553.1 (3.6)	988.3 (0.5)	4513.0 (0.4)	1110.6 (4.0)	
	844.3 (3.1)	3563.8 (2.2)	1026.8 (1.3)	5145.5 (0.3)	1114.2 (0.8)	
	866.2 (13.4)	3584.5 (2.9)	1047.3 (0.3)		1145.8 (0.4)	
	879.7 (8.2)	3603.0 (7.2)	1093.9 (0.9)	143Nd		
	894.1 (10.3)	3630.3 (2.7)	1106.3 (1.5)	152.0 (<0.1)	1180.8 (0.5)	
	920.0 (2.2)	3647.0 (4.3)	1117.4 (0.2)	183.2 (<0.1)	1187.2 (0.2)	
	936.5 (8.2)	3652.9 (8.8)	1123.1 (0.4)	191.3 (0.8)	1191.6 (0.2)	
	943.7 (8.2)	3661.2 (1.9)	1130.2 (1.5)	206.8 (<0.1)	1215.2 (<0.1)	
	957.5 (14.4)	3678.9 (3.2)	1136.0 (2.1)	207.8 (<0.1)	1221.4 (0.5)	
	966.7 (4.1)	3712.5 (4.7)	1146.1 (1.5)	217.4 (<0.1)	1224.1 (3.0)	
	975.8 (7.2)	3742.9 (2.5)	1154.1 (8.8)	223.2 (<0.1)	1238.2 (0.1)	
	991.2 (16.5)	3771.9 (3.3)	1165.2 (1.2)	243.9 (0.5)	1239.1 (0.2)	
	1005.4 (21.0)	3788.6 (16.5)	1172.3 (2.0)	251.0 (0.1)	1253.7 (0.3)	
	1024.7 (3.1)	3808.6 (2.3)	1185.7 (0.4)	273.2 (0.5)	1262.6 (3.9)	
	1101.9 (7.2)	3826.6 (1.1)	1217.6 (0.9)	306.3 (<0.1)	1283.8 (0.4)	
	1107.9 (13.4)	3859.4 (1.6)	1259.4 (1.4)	307.8 (<0.1)	1308.9 (0.2)	
	1131.1 (6.2)	3889.1 (4.1)	1278.3 (0.5)	332.1 (<0.1)	1314.0 (0.2)	
	1138.1 (7.2)	3907.7 (4.6)	1347.2 (1.0)	342.5 (<0.1)	1317.3 (0.2)	
	1150.7 (23.7)	3920.5 (3.4)	1434.2 (0.7)	345.3 (0.1)	1351.9 (0.1)	
	1157.7 (9.3)	3941.5 (2.8)	1505.9 (0.6)	368.6 (<0.1)	1356.9 (0.2)	
				370.6 (<0.1)	1363.8 (0.1)	
142Pr						
32.3 (5.2)	1005.4 (21.0)	3788.6 (16.5)	1172.3 (2.0)	273.2 (0.5)	1262.6 (3.9)	
47.3 (3.1)	1024.7 (3.1)	3808.6 (2.3)	1185.7 (0.4)	306.3 (<0.1)	1283.8 (0.4)	
54.6 (2.1)	1101.9 (7.2)	3826.6 (1.1)	1217.6 (0.9)	307.8 (<0.1)	1308.9 (0.2)	
55.9 (1.3)	1107.9 (13.4)	3859.4 (1.6)	1259.4 (1.4)	332.1 (<0.1)	1314.0 (0.2)	
60.1 (8.2)	1131.1 (6.2)	3889.1 (4.1)	1278.3 (0.5)	342.5 (<0.1)	1317.3 (0.2)	
64.5 (8.2)	1138.1 (7.2)	3907.7 (4.6)	1347.2 (1.0)	345.3 (0.1)	1351.9 (0.1)	
68.6 (9.3)	1150.7 (23.7)	3920.5 (3.4)	1434.2 (0.7)	368.6 (<0.1)	1356.9 (0.2)	
85.0 (14.4)	1157.7 (9.3)	3941.5 (2.8)	1505.9 (0.6)	370.6 (<0.1)	1363.8 (0.1)	

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_{\gamma}(\text{keV})$	$(\pi_{1\gamma})$	$E_{\gamma}(\text{keV})$	$(\pi_{1\gamma})$	$E_{\gamma}(\text{keV})$	$(\pi_{1\gamma})$	$E_{\gamma}(\text{keV})$	$(\pi_{1\gamma})$	$E_{\gamma}(\text{keV})$	$(\pi_{1\gamma})$
148nd (cont.)		2069.4	0.4	2866.8	0.6	650.4	0.3	1634.6	0.1
1378.8	0.8	2063.7	0.4	2879.6	0.8	667.5	<0.1	1651.4	<0.1
1383.8	2.5	2079.5	0.4	2879.7	0.8	681.3	<0.1	1661.2	<0.1
1390.5	0.3	2084.0	0.2	2897.9	<0.1	694.0	2.0	1665.1	<0.1
1407.2	0.6	2094.0	0.6	2902.8	1.4	696.5	100.0	1672.0	<0.1
1424.3	0.2	2095.6	0.3	2922.2	0.4	722.6	0.2	1677.7	<0.1
1435.0	0.2	2098.8	0.5	2937.3	4.0	727.5	0.2	1691.0	<0.1
1440.1	0.2	2100.9	0.6	2945.8	0.6	733.8	0.2	1728.7	<0.1
1445.1	1.4	2108.3	0.2	2954.8	0.5	733.8	<0.1	1734.2	<0.1
1450.9	0.3	2112.5	0.2	2966.4	0.3	747.0	<0.1	1744.1	<0.1
1456.9	0.2	2116.3	1.1	2977.6	0.3	757.0	<0.1	1754.7	<0.1
1461.9	0.4	2117.9	0.4	2999.9	0.2	7.6	1.9	1755.3	<0.1
1481.9	0.4	2156.4	0.3	3021.8	0.2	794.9	0.5	1804.6	<0.1
1488.4	2.2	2158.8	1.0	3023.3	0.2	794.9	0.5	1821.0	<0.1
1498.4	0.2	2162.8	1.0	3044.1	0.2	814.1	12.8	1832.2	<0.1
1503.6	0.3	2168.5	0.3	3050.4	0.4	835.0	0.1	1844.1	<0.1
1521.6	0.3	2168.5	0.7	3070.8	0.4	841.2	0.1	1855.1	<0.1
1531.6	0.3	2168.5	0.7	3070.8	0.4	847.4	0.1	1867.5	<0.1
1539.9	0.3	2168.5	0.7	3080.8	0.7	864.3	11.5	1895.5	<0.1
1546.6	0.6	2168.5	2.6	3100.8	0.3	878.5	<0.1	1905.0	<0.1
1555.6	0.3	2168.5	0.3	3122.2	0.1	889.8	0.2	1909.2	<0.1
1558.8	0.3	2168.5	0.3	3129.2	0.1	889.8	0.2	1938.3	<0.1
1568.2	0.3	2168.5	0.3	3129.2	0.1	897.5	<0.1	1950.4	<0.1
1580.2	0.3	2168.5	0.3	3129.2	0.1	906.5	0.1	1958.0	<0.1
1585.3	0.3	2168.5	0.3	3129.2	0.1	916.7	0.2	1967.2	<0.1
1596.1	0.3	2168.5	0.3	3129.2	0.1	925.1	0.2	1985.5	<0.1
1605.0	0.3	2168.5	0.3	3129.2	0.1	937.8	0.2	2022.3	<0.1
1610.5	0.3	2168.5	0.3	3129.2	0.1	943.9	0.3	2036.8	<0.1
1616.9	0.3	2168.5	0.3	3129.2	0.1	947.9	0.3	2050.2	<0.1
1620.3	0.3	2168.5	0.3	3129.2	0.1	954.9	<0.1	2072.7	<0.1
1624.0	0.3	2168.5	0.3	3129.2	0.1	967.3	<0.1	2082.5	<0.1
1624.0	0.3	2168.5	0.3	3129.2	0.1	980.8	<0.1	2095.3	<0.1
1630.4	0.3	2168.5	0.3	3129.2	0.1	980.8	<0.1	2125.6	<0.1
1640.0	0.3	2168.5	0.3	3129.2	0.1	1003.6	<0.1	2132.7	<0.1
1648.3	0.3	2168.5	0.3	3129.2	0.1	1003.6	<0.1	2142.7	<0.1
1653.3	0.3	2168.5	0.3	3129.2	0.1	1017.6	0.2	2171.6	<0.1
1663.9	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1675.9	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1677.5	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
1688.1	0.3	2168.5	0.3	3129.2	0.1	1023.5	0.2	2185.1	<0.1
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Table II. CAPTURE γ 's - nuclide sorted (cont.)

E_{γ} (keV) (145Nd)	(%I γ) (cont.)	E_{γ} (keV)	(%I γ)	E_{γ} (keV)	(%I γ)	E_{γ} (keV)	(%I γ)	E_{γ} (keV)	(%I γ)	E_{γ} (keV)	(%I γ)	E_{γ} (keV)	(%I γ)
1816.9	(2.0)	1016.9	(1.2)	2057.8	(0.1)	238.9	(0.8)	1186.9	(10.5)	3747.3	(2.6)		
1821.6	(2.0)	1017.3	(0.1)	2063.2	(0.1)	250.9	(15.4)	1208.9	(8.8)	3754.9	(1.0)		
1832.8	(1.7)	1029.6	(0.1)	2096.3	(0.1)	254.7	(1.7)	1219.5	(1.7)	3768.7	(5.6)		
1845.9	(2.8)	1039.3	(0.1)	2108.3	(0.1)	258.8	(2.0)	1230.3	(5.7)	3847.0	(3.0)		
1855.7	(3.3)	1053.1	(0.2)	2120.2	(0.1)	269.8	(1.9)	1235.5	(3.9)	3893.8	(2.4)		
1936.9	(1.8)	1081.1	(0.1)	2136.0	(0.2)	305.8	(2.5)	1242.2	(2.4)	3950.8	(0.6)		
1968.6	(4.8)	1093.5	(0.1)	2149.1	(0.1)	310.7	(2.5)	1249.4	(1.3)	4023.1	(2.5)		
4011.3	(19.8)	1101.1	(0.1)	2157.6	(0.1)	314.7	(100.0)	1277.8	(7.0)	4054.3	(1.9)		
4163.3	(15.0)	1125.1	(0.3)	2168.5	(0.1)	316.8	(5.7)	1281.1	(3.2)	4069.3	(2.0)		
4438.9	(11.5)	1139.9	(0.1)	2209.4	(0.3)	358.9	(60.5)	1285.5	(2.8)	4237.8	(1.1)		
4542.0	(11.0)	1149.8	(0.1)	2223.5	(0.1)	363.3	(4.6)	1292.5	(6.3)	4331.8	(0.9)		
4836.9	(97.0)	1167.2	(0.2)	2266.8	(0.1)	379.0	(0.5)	1349.9	(7.0)	4339.8	(0.4)		
4975.8	(13.0)	1169.5	(0.1)	2278.1	(0.1)	384.9	(0.5)	1377.8	(3.4)	4484.2	(1.2)		
		1181.7	(0.1)	2291.2	(0.1)	388.8	(0.9)	1385.1	(2.0)	4500.2	(1.1)		
		1183.6	(0.1)	2369.5	(0.1)	410.7	(13.4)	1385.1	(2.2)	4522.4	(0.4)		
3617.1	(1.3)	1190.8	(0.1)	2389.8	(0.1)	413.9	(1.7)	1395.1	(9.2)	4618.7	(1.0)		
4078.8	(3.4)	1193.4	(0.1)	2459.8	(0.1)	416.9	(1.7)	1402.5	(3.5)	4660.5	(28.1)		
4586.7	(2.3)	1219.9	(0.1)	2685.6	(0.1)	438.9	(3.4)	1452.8	(1.1)	4687.8	(0.7)		
4624.1	(5.0)	1244.0	(0.1)	2691.3	(0.1)	447.5	(2.5)	1452.8	(1.1)	4695.3	(1.8)		
4784.5	(16.5)	1268.5	(0.1)	2793.0	(0.1)	460.0	(1.0)	1452.8	(1.1)	4774.5	(1.5)		
5159.8	(48.6)	1292.2	(0.2)	2830.3	(0.1)	463.5	(12.6)	1452.8	(1.1)	4828.6	(5.0)		
5863.0	(100.0)	1314.3	(0.2)	2852.8	(0.1)	466.8	(2.5)	1452.8	(1.1)	4848.5	(0.4)		
		1324.0	(0.9)	2856.5	(0.1)	478.0	(3.4)	1452.8	(1.1)	4962.1	(0.4)		
		1332.3	(0.1)	4473.4	(1.5)	493.5	(15.1)	1452.8	(1.1)	4977.4	(11.0)		
		1333.9	(0.4)	4551.4	(1.4)	503.6	(11.2)	1452.8	(1.1)	4997.1	(1.8)		
81.7	(0.1)	1363.5	(0.2)	4567.9	(1.6)	516.8	(1.2)	1452.8	(1.1)	5005.7	(0.8)		
97.2	(0.1)	1377.3	(0.4)	4595.0	(1.6)	525.3	(3.4)	1452.8	(1.1)	5031.1	(0.3)		
171.9	(0.1)	1382.0	(0.1)	4634.0	(5.8)	528.0	(1.7)	1452.8	(1.1)	5079.2	(0.5)		
448.4	(0.3)	1392.3	(0.1)	4679.3	(0.6)	534.7	(8.8)	1452.8	(1.1)	5079.2	(0.8)		
453.7	(25.6)	1426.5	(0.1)	4694.0	(0.6)	554.8	(15.1)	1452.8	(1.1)	5130.1	(0.4)		
457.4	(0.2)	1434.3	(0.2)	4720.0	(1.1)	577.9	(46.2)	1452.8	(1.1)	5130.1	(0.3)		
471.4	(0.1)	1448.6	(0.1)	4780.8	(2.6)	595.2	(0.8)	1452.8	(1.1)	5162.2	(1.3)		
474.5	(1.9)	1452.2	(0.5)	4814.5	(1.1)	614.2	(1.0)	1452.8	(1.1)	5176.5	(1.2)		
476.2	(0.2)	1468.8	(0.1)	4857.3	(1.3)	621.7	(4.2)	1452.8	(1.1)	5184.5	(0.5)		
482.0	(0.2)	1471.0	(0.1)	4903.8	(1.7)	631.5	(2.4)	1452.8	(1.1)	5212.7	(0.3)		
485.9	(0.1)	1476.6	(0.1)	4975.1	(1.4)	634.4	(21.0)	1452.8	(1.1)	5253.5	(0.5)		
504.1	(0.1)	1496.5	(0.1)	5002.5	(1.9)	641.5	(1.7)	1452.8	(1.1)				
507.7	(0.1)	1521.9	(0.3)	5036.3	(1.7)	666.8	(0.9)	1452.8	(1.1)				
519.9	(0.1)	1525.0	(0.2)	5048.3	(6.3)	682.2	(1.3)	1452.8	(1.1)				
529.9	(0.1)	1535.5	(0.2)	5073.2	(2.6)	682.2	(1.3)	1452.8	(1.1)				
534.9	(0.1)	1538.1	(0.1)	5094.7	(2.9)	699.6	(3.9)	1452.8	(1.1)				
540.5	(0.1)	1575.9	(0.1)	5128.2	(0.9)	701.9	(4.5)	1452.8	(1.1)				
543.4	(0.6)	1613.8	(0.1)	5128.2	(0.9)	726.8	(0.9)	1452.8	(1.1)				
553.9	(0.1)	1625.6	(0.1)	5131.0	(0.8)	730.9	(0.9)	1452.8	(1.1)				
558.1	(0.1)	1655.6	(0.1)	5131.0	(0.8)	747.6	(1.5)	1452.8	(1.1)				
578.0	(0.1)	1671.8	(0.1)	5207.2	(1.2)	754.4	(0.9)	1452.8	(1.1)				
584.6	(0.1)	1680.8	(0.1)	5238.2	(3.4)	760.6	(1.8)	1452.8	(1.1)				
589.4	(6.9)	1689.8	(0.1)	5244.6	(3.0)	768.9	(1.8)	1452.8	(1.1)				
595.3	(0.1)	1728.4	(0.1)	5268.7	(2.9)	787.2	(1.2)	1452.8	(1.1)				
598.3	(0.1)	1741.4	(0.1)	5268.7	(2.9)	797.2	(1.2)	1452.8	(1.1)				
600.0	(0.1)	1750.7	(0.1)	5292.3	(6.3)	819.2	(1.0)	1452.8	(1.1)				
602.0	(0.1)	1750.7	(0.1)	5292.3	(6.3)	840.6	(4.6)	1452.8	(1.1)				
630.1	(0.1)	1766.7	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
630.6	(0.1)	1771.1	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
668.4	(0.1)	1777.3	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
674.3	(0.1)	1779.8	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
677.1	(0.1)	1787.3	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
683.3	(0.1)	1805.7	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
702.1	(0.4)	1812.1	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
716.8	(0.1)	1817.6	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
721.6	(0.1)	1832.9	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
734.6	(0.1)	1853.3	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
739.6	(0.1)	1862.7	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
745.2	(3.9)	1873.5	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
757.7	(0.1)	1880.5	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
757.7	(0.1)	1903.2	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
765.1	(0.1)	1906.8	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
772.5	(0.1)	1910.8	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
775.6	(0.1)	1914.1	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
788.8	(0.2)	1919.7	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
807.3	(0.1)	1919.7	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
849.9	(0.1)	1969.0	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
871.5	(0.1)	1975.1	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
871.5	(0.1)	1975.1	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
883.3	(0.3)	1981.4	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
906.7	(0.2)	1984.2	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
923.2	(0.4)	1989.2	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
946.3	(0.1)	2030.0	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
999.0	(0.2)	2037.8	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				
1012.3	(0.1)	2045.6	(0.1)	5292.3	(6.3)	854.1	(1.9)	1452.8	(1.1)				

Table II. CAPTURE γ 's - nuclide sorted (cont.)

[illegible]

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)
152Eu (cont.)					
88.3 (<0.1)	106.4 (<0.1)	122.1 (<0.1)	137.2 (<0.1)	153.2 (<0.1)	167.2 (<0.1)
88.4 (<0.1)	106.5 (<0.1)	122.3 (<0.2)	137.3 (<0.1)	153.3 (<0.1)	167.4 (<0.1)
88.7 (<0.1)	106.7 (<0.1)	122.7 (<0.1)	137.5 (<0.1)	153.4 (<0.1)	167.5 (<0.1)
88.9 (<0.1)	106.8 (<0.1)	123.0 (<0.1)	137.6 (0.2)	153.6 (<0.1)	167.6 (<0.1)
89.1 (<0.1)	107.1 (0.3)	123.2 (<0.1)	137.8 (<0.1)	153.7 (0.7)	167.8 (<0.1)
89.2 (0.2)	107.2 (<0.1)	123.3 (<0.1)	137.9 (<0.1)	153.8 (<0.1)	167.9 (<0.1)
89.3 (<0.1)	107.3 (<0.1)	123.5 (0.3)	138.1 (<0.1)	154.0 (<0.1)	168.2 (<0.1)
89.4 (<0.1)	107.5 (0.5)	123.6 (<0.1)	138.2 (<0.1)	154.1 (<0.1)	168.4 (<0.1)
89.5 (<0.1)	107.7 (<0.1)	123.8 (0.1)	138.3 (<0.1)	154.2 (<0.1)	168.7 (<0.1)
89.7 (<0.1)	107.9 (<0.1)	123.9 (0.5)	138.4 (<0.1)	154.4 (<0.1)	168.8 (1.5)
89.8 (100.0)	108.1 (<0.1)	124.0 (0.1)	138.6 (<0.1)	154.7 (<0.1)	168.9 (<0.1)
90.4 (<0.1)	108.2 (<0.1)	124.2 (<0.1)	138.9 (<0.1)	154.8 (<0.1)	169.1 (<0.1)
90.8 (1.1)	108.3 (<0.1)	124.3 (<0.1)	139.0 (<0.1)	155.0 (0.1)	169.3 (<0.1)
90.9 (0.2)	108.7 (<0.3)	124.5 (<0.1)	139.2 (<0.1)	155.2 (<0.1)	169.5 (0.1)
91.0 (<0.1)	108.9 (<0.1)	124.7 (<0.1)	139.4 (<0.1)	155.4 (<0.1)	169.6 (<0.1)
91.3 (0.2)	109.2 (<0.1)	124.9 (1.2)	139.5 (0.1)	155.5 (<0.1)	169.7 (<0.1)
91.4 (<0.1)	109.3 (1.4)	125.0 (<0.1)	139.7 (<0.1)	155.7 (<0.1)	169.9 (<0.1)
91.5 (<0.1)	109.5 (<0.1)	125.2 (<0.1)	139.9 (<0.1)	155.8 (<0.1)	170.2 (<0.1)
91.8 (<0.1)	109.6 (<0.1)	125.3 (<0.1)	140.1 (0.2)	156.2 (0.3)	170.3 (0.2)
91.9 (<0.1)	109.8 (0.2)	125.5 (<0.1)	140.3 (0.7)	156.4 (<0.1)	170.4 (<0.1)
92.2 (<0.1)	109.9 (<0.1)	125.6 (<0.1)	140.5 (<0.1)	156.7 (<0.1)	170.7 (<0.1)
92.3 (<0.1)	110.0 (<0.1)	125.8 (<0.1)	140.8 (<0.1)	156.8 (<0.1)	170.9 (<0.1)
92.7 (<0.1)	110.2 (<0.1)	125.9 (<0.1)	140.9 (<0.1)	157.0 (<0.1)	171.1 (0.4)
92.8 (<0.1)	110.4 (0.1)	126.0 (<0.1)	141.2 (<0.1)	157.2 (<0.1)	171.3 (<0.1)
93.4 (<0.1)	110.5 (<0.1)	126.2 (<0.1)	141.3 (<0.1)	157.3 (<0.1)	171.5 (0.1)
93.5 (<0.1)	110.6 (0.8)	126.3 (<0.1)	141.4 (<0.1)	157.5 (0.7)	171.7 (<0.1)
93.7 (<0.1)	110.8 (<0.1)	126.5 (<0.1)	141.8 (0.2)	157.6 (<0.1)	171.8 (0.4)
94.0 (<0.1)	111.0 (<0.1)	126.8 (0.1)	142.2 (<0.1)	157.8 (<0.1)	172.0 (<0.1)
94.3 (<0.1)	111.1 (<0.1)	126.9 (<0.1)	142.5 (<0.1)	157.9 (<0.1)	172.3 (<0.1)
94.6 (<0.1)	111.3 (<0.1)	127.0 (<0.1)	142.7 (<0.1)	158.1 (<0.1)	172.4 (<0.1)
94.7 (<0.1)	111.4 (<0.1)	127.6 (<0.1)	142.8 (<0.1)	158.4 (0.2)	172.5 (<0.1)
94.8 (0.1)	111.5 (<0.1)	127.8 (<0.1)	143.1 (<0.1)	158.5 (<0.1)	172.7 (<0.1)
94.9 (<0.1)	111.9 (<0.1)	128.0 (0.2)	143.3 (0.1)	158.6 (<0.1)	172.8 (<0.1)
95.1 (0.3)	112.1 (<0.1)	128.1 (<0.1)	143.5 (<0.1)	158.8 (<0.1)	173.0 (<0.1)
95.2 (0.4)	112.3 (<0.1)	128.3 (<0.1)	143.6 (<0.1)	159.0 (<0.1)	173.2 (0.1)
95.4 (<0.1)	112.4 (<0.1)	128.4 (<0.1)	143.8 (0.2)	159.1 (<0.1)	173.4 (<0.1)
95.7 (<0.1)	113.0 (<0.1)	128.7 (<0.1)	144.2 (<0.1)	159.3 (<0.1)	173.6 (<0.1)
96.0 (<0.1)	113.2 (<0.1)	128.8 (<0.1)	144.3 (<0.1)	159.5 (<0.1)	173.7 (<0.1)
96.2 (0.3)	113.3 (<0.1)	129.0 (<0.1)	144.5 (<0.1)	159.6 (<0.1)	173.9 (<0.1)
96.5 (<0.1)	113.5 (<0.1)	129.1 (<0.1)	144.7 (<0.1)	159.9 (<0.1)	174.1 (<0.1)
96.6 (<0.1)	113.6 (<0.1)	129.2 (<0.1)	144.8 (<0.1)	160.0 (<0.1)	174.4 (<0.1)
97.5 (<0.1)	113.8 (<0.1)	129.4 (<0.1)	145.0 (<0.1)	160.1 (0.4)	174.7 (<0.1)
97.7 (<0.1)	114.0 (<0.1)	129.5 (<0.1)	145.2 (<0.1)	160.2 (<0.1)	174.8 (<0.1)
97.9 (<0.1)	114.2 (<0.1)	129.6 (<0.1)	145.4 (<0.1)	160.4 (<0.1)	175.1 (<0.1)
98.3 (<0.1)	114.3 (0.2)	129.8 (<0.1)	145.6 (<0.1)	160.5 (<0.1)	175.2 (<0.1)
98.7 (<0.1)	114.5 (<0.1)	129.9 (<0.1)	145.8 (<0.1)	160.6 (0.1)	175.4 (<0.1)
99.3 (0.1)	114.7 (<0.1)	130.1 (<0.1)	145.9 (<0.1)	160.7 (<0.1)	175.6 (<0.1)
99.4 (<0.1)	114.8 (<0.1)	130.3 (<0.1)	146.0 (<0.1)	160.9 (<0.1)	175.8 (<0.1)
99.5 (<0.1)	114.9 (<0.1)	130.4 (<0.1)	146.3 (<0.1)	161.0 (<0.1)	175.9 (<0.1)
99.7 (<0.1)	115.0 (<0.1)	130.6 (<0.1)	146.4 (<0.1)	161.1 (0.1)	176.1 (<0.1)
99.9 (<0.1)	115.2 (0.1)	130.8 (<0.1)	146.6 (<0.1)	161.3 (<0.1)	176.3 (<0.1)
100.0 (<0.1)	115.4 (<0.1)	130.9 (<0.1)	146.8 (<0.1)	161.5 (<0.1)	176.5 (<0.1)
100.4 (<0.1)	115.5 (<0.1)	131.1 (<0.1)	147.0 (<0.1)	161.7 (<0.1)	176.6 (<0.1)
100.5 (0.1)	115.8 (0.1)	131.3 (<0.1)	147.1 (0.1)	161.8 (<0.1)	176.8 (<0.1)
100.6 (0.1)	116.1 (<0.1)	131.5 (0.2)	147.3 (<0.1)	162.0 (<0.1)	176.9 (<0.1)
100.9 (<0.1)	116.5 (<0.1)	131.6 (0.3)	147.4 (<0.1)	162.2 (<0.1)	177.2 (<0.1)
101.0 (<0.1)	116.7 (<0.1)	131.7 (<0.1)	147.6 (0.5)	162.4 (<0.1)	177.4 (<0.1)
101.3 (<0.1)	116.9 (<0.1)	131.8 (0.2)	147.7 (<0.1)	162.6 (<0.1)	177.5 (<0.1)
101.5 (<0.1)	117.2 (<0.1)	132.1 (<0.1)	147.8 (<0.1)	162.7 (<0.1)	177.7 (<0.1)
101.7 (0.5)	117.3 (<0.1)	132.3 (<0.1)	148.0 (<0.1)	162.9 (<0.1)	177.8 (<0.1)
101.8 (<0.1)	117.4 (0.5)	132.5 (0.2)	148.2 (<0.1)	163.0 (<0.1)	178.0 (<0.1)
102.0 (<0.1)	117.6 (<0.1)	132.6 (<0.1)	148.4 (<0.1)	163.1 (<0.1)	178.2 (0.1)
102.1 (<0.1)	117.8 (<0.1)	132.7 (<0.1)	148.6 (0.2)	163.2 (<0.1)	178.3 (<0.1)
102.3 (<0.1)	118.0 (<0.1)	132.9 (0.7)	148.8 (<0.1)	163.4 (0.2)	178.4 (<0.1)
102.5 (0.1)	118.1 (<0.1)	133.0 (0.2)	148.9 (<0.1)	163.5 (<0.1)	178.5 (<0.1)
102.6 (0.6)	118.3 (<0.1)	133.3 (<0.1)	149.1 (0.4)	163.7 (<0.1)	178.6 (<0.1)
102.8 (<0.1)	118.4 (<0.1)	133.5 (<0.1)	149.2 (<0.1)	163.8 (<0.1)	178.9 (<0.1)
103.2 (<0.1)	118.6 (<0.1)	133.7 (<0.1)	149.4 (<0.1)	163.9 (0.3)	179.2 (<0.1)
103.4 (<0.1)	118.8 (<0.1)	133.8 (<0.1)	149.5 (<0.1)	164.0 (0.1)	179.5 (0.1)
103.5 (1.6)	119.0 (<0.1)	134.0 (<0.1)	149.8 (<0.1)	164.1 (<0.1)	179.7 (0.2)
103.6 (<0.1)	119.2 (<0.1)	134.2 (<0.1)	150.1 (<0.1)	164.2 (<0.1)	179.9 (0.1)
103.7 (<0.1)	119.3 (<0.1)	134.3 (<0.1)	150.4 (<0.1)	164.4 (<0.1)	180.3 (<0.1)
104.0 (<0.1)	119.5 (<0.1)	134.6 (<0.1)	150.5 (<0.1)	164.6 (<0.1)	180.4 (<0.1)
104.2 (<0.1)	119.6 (0.3)	134.7 (<0.1)	150.7 (0.5)	164.8 (<0.1)	180.6 (<0.1)
104.3 (<0.1)	119.7 (<0.1)	134.9 (<0.1)	150.8 (0.1)	164.9 (0.2)	180.9 (<0.1)
104.5 (<0.1)	119.8 (<0.1)	135.2 (0.9)	150.9 (<0.1)	165.1 (<0.1)	181.0 (<0.1)
104.7 (0.2)	120.0 (<0.1)	135.4 (<0.1)	151.2 (<0.1)	165.2 (<0.1)	181.1 (<0.1)
105.0 (<0.1)	120.3 (<0.1)	135.5 (<0.1)	151.5 (<0.1)	165.4 (<0.1)	181.3 (<0.1)
105.2 (<0.1)	120.4 (<0.1)	135.6 (0.4)	151.9 (<0.1)	165.5 (<0.1)	181.4 (<0.1)
105.3 (0.2)	120.7 (<0.1)	135.8 (<0.1)	152.0 (<0.1)	165.7 (<0.1)	181.6 (<0.1)
105.5 (<0.1)	120.9 (<0.1)	136.0 (<0.1)	152.1 (<0.1)	165.8 (<0.1)	181.7 (<0.1)
105.7 (<0.1)	121.2 (<0.1)	136.1 (<0.1)	152.2 (<0.1)	166.0 (<0.1)	181.9 (<0.1)
105.8 (<0.1)	121.4 (<0.1)	136.4 (<0.1)	152.4 (<0.1)	166.2 (0.1)	182.0 (<0.1)
106.0 (<0.1)	121.5 (<0.1)	136.5 (<0.1)	152.6 (<0.1)	166.4 (<0.1)	182.1 (0.2)
106.2 (<0.1)	121.7 (<0.1)	136.6 (<0.1)	152.7 (<0.1)	166.5 (<0.1)	182.3 (<0.1)
106.3 (0.8)	121.8 (<0.1)	136.8 (<0.1)	152.9 (<0.1)	166.9 (0.8)	182.4 (0.1)
	122.0 (<0.1)	137.0 (<0.1)	153.0 (<0.1)	167.0 (<0.1)	182.6 (<0.1)

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_{\gamma}(\text{keV})$ (λ_{17})	$E_{\gamma}(\text{keV})$ (λ_{17})	$E_{\gamma}(\text{keV})$ (λ_{17})	$E_{\gamma}(\text{keV})$ (λ_{17})	$E_{\gamma}(\text{keV})$ (λ_{17})	$E_{\gamma}(\text{keV})$ (λ_{17})
152Eu (cont.)					
182.7 (<0.1)	197.5 (<0.1)	212.7 (0.2)	228.5 (0.4)	245.4 (<0.1)	263.3 (<0.1)
182.9 (<0.1)	197.6 (<0.1)	212.8 (<0.1)	228.8 (<0.1)	245.6 (<0.1)	263.5 (<0.1)
183.3 (<0.1)	197.8 (<0.1)	213.1 (<0.1)	229.1 (<0.1)	245.8 (0.2)	263.8 (<0.1)
183.4 (<0.1)	197.9 (0.6)	213.2 (<0.1)	229.2 (0.4)	245.9 (<0.1)	263.9 (<0.1)
183.6 (<0.1)	198.2 (<0.1)	213.3 (<0.1)	229.4 (0.1)	246.1 (0.1)	264.0 (0.3)
183.7 (<0.1)	198.4 (<0.1)	213.5 (<0.1)	229.7 (<0.1)	246.2 (<0.1)	264.2 (<0.1)
184.0 (<0.1)	198.5 (<0.1)	213.6 (0.2)	229.8 (<0.1)	246.5 (<0.1)	264.4 (<0.1)
184.3 (<0.1)	198.7 (<0.1)	213.9 (<0.1)	229.9 (<0.1)	246.7 (0.5)	264.8 (0.2)
184.6 (<0.1)	198.9 (0.1)	214.0 (<0.1)	230.1 (<0.1)	246.8 (<0.1)	264.9 (<0.1)
184.7 (<0.1)	199.1 (<0.1)	214.1 (<0.1)	230.3 (<0.1)	247.0 (0.4)	265.3 (<0.1)
184.9 (<0.1)	199.4 (<0.1)	214.3 (<0.1)	230.9 (<0.1)	247.2 (<0.1)	265.4 (<0.1)
185.0 (<0.1)	199.5 (<0.1)	214.4 (0.7)	231.2 (<0.1)	247.3 (<0.1)	265.6 (0.1)
185.2 (<0.1)	199.7 (<0.1)	214.6 (0.6)	231.3 (<0.1)	247.5 (<0.1)	265.8 (<0.1)
185.3 (<0.1)	199.9 (<0.1)	214.8 (<0.1)	231.5 (<0.1)	247.7 (<0.1)	266.0 (<0.1)
185.5 (<0.1)	200.1 (<0.1)	215.0 (<0.1)	231.6 (<0.1)	248.1 (<0.1)	266.3 (0.1)
185.6 (<0.1)	200.2 (<0.1)	215.2 (0.2)	231.8 (<0.1)	248.4 (0.1)	266.4 (<0.1)
185.7 (<0.1)	200.3 (<0.1)	215.4 (<0.1)	231.9 (0.2)	248.6 (<0.1)	266.6 (<0.1)
185.9 (<0.1)	200.4 (<0.1)	215.6 (0.1)	232.1 (0.3)	248.8 (<0.1)	266.8 (0.2)
186.1 (<0.1)	200.7 (<0.1)	215.7 (<0.1)	232.3 (<0.1)	248.9 (<0.1)	267.0 (<0.1)
186.2 (<0.1)	200.8 (<0.1)	215.8 (<0.1)	232.5 (<0.1)	249.2 (0.1)	267.3 (<0.1)
186.3 (<0.1)	201.0 (<0.1)	216.0 (<0.1)	232.7 (<0.1)	249.3 (<0.1)	267.4 (0.2)
186.6 (<0.1)	201.1 (0.1)	216.2 (<0.1)	232.9 (1.0)	249.4 (<0.1)	267.6 (0.2)
186.6 (0.4)	201.3 (<0.1)	216.3 (0.1)	233.1 (<0.1)	249.7 (<0.1)	267.9 (<0.1)
186.7 (0.2)	201.4 (<0.1)	216.5 (<0.1)	233.2 (<0.1)	249.9 (0.1)	268.4 (<0.1)
186.9 (0.4)	201.6 (<0.1)	216.7 (<0.1)	233.4 (<0.1)	250.1 (<0.1)	268.7 (<0.1)
187.0 (<0.1)	201.7 (<0.1)	217.0 (0.5)	233.6 (0.1)	250.3 (<0.1)	269.0 (<0.1)
187.2 (<0.1)	201.9 (<0.1)	217.2 (<0.1)	233.7 (0.1)	250.5 (<0.1)	269.2 (0.1)
187.5 (<0.1)	202.0 (1.7)	217.4 (<0.1)	233.9 (<0.1)	250.6 (<0.1)	269.4 (<0.1)
187.6 (<0.1)	202.2 (<0.1)	217.5 (<0.1)	234.1 (<0.1)	250.8 (0.1)	269.8 (<0.1)
187.7 (<0.1)	202.4 (<0.1)	217.7 (<0.1)	234.4 (<0.1)	251.1 (<0.1)	269.9 (<0.1)
187.9 (<0.1)	202.7 (0.1)	218.0 (<0.1)	234.5 (0.2)	251.3 (<0.1)	270.0 (<0.1)
188.1 (<0.1)	202.8 (0.1)	218.1 (<0.1)	234.8 (<0.1)	251.4 (<0.1)	270.2 (<0.1)
188.2 (<0.1)	203.0 (<0.1)	218.3 (<0.1)	235.0 (<0.1)	251.6 (<0.1)	270.5 (<0.1)
188.4 (<0.1)	203.2 (<0.1)	218.5 (<0.1)	235.1 (<0.1)	251.8 (<0.1)	270.6 (<0.1)
188.5 (<0.1)	203.3 (0.1)	218.6 (<0.1)	235.3 (<0.1)	252.2 (<0.1)	270.7 (<0.1)
188.7 (<0.1)	203.5 (0.1)	218.8 (<0.1)	235.6 (<0.1)	252.5 (<0.1)	270.9 (0.4)
188.9 (<0.1)	203.7 (<0.1)	218.9 (<0.1)	235.9 (<0.1)	252.7 (<0.1)	271.1 (0.1)
189.2 (<0.1)	204.0 (<0.1)	219.1 (0.6)	236.0 (<0.1)	252.8 (0.2)	271.3 (0.2)
189.4 (<0.1)	204.1 (0.2)	219.3 (<0.1)	236.2 (<0.1)	253.0 (<0.1)	271.7 (<0.1)
189.5 (<0.1)	204.2 (<0.1)	219.5 (<0.1)	236.3 (0.2)	253.2 (<0.1)	272.0 (<0.1)
189.7 (<0.1)	204.3 (<0.1)	219.6 (<0.1)	236.5 (<0.1)	253.3 (<0.1)	272.2 (<0.1)
189.8 (<0.1)	204.5 (<0.1)	219.8 (<0.1)	236.6 (<0.1)	253.5 (<0.1)	272.3 (<0.1)
189.9 (<0.1)	204.6 (<0.1)	220.0 (<0.1)	236.8 (<0.1)	253.6 (<0.1)	272.5 (<0.1)
190.1 (<0.1)	204.8 (<0.1)	220.2 (0.1)	236.9 (<0.1)	253.8 (0.2)	272.6 (<0.1)
190.3 (<0.1)	205.0 (<0.1)	220.4 (0.2)	237.1 (<0.1)	254.0 (<0.1)	272.8 (<0.1)
190.5 (<0.1)	205.2 (<0.1)	220.7 (0.1)	237.3 (<0.1)	254.2 (<0.1)	272.9 (<0.1)
190.7 (<0.1)	205.3 (<0.1)	220.9 (<0.1)	237.4 (<0.1)	254.4 (<0.1)	273.3 (<0.1)
190.8 (<0.1)	205.5 (<0.1)	221.1 (<0.1)	237.5 (<0.1)	254.6 (<0.1)	273.5 (0.4)
191.0 (0.3)	205.8 (<0.1)	221.2 (5.0)	237.8 (<0.1)	254.8 (<0.1)	273.8 (<0.1)
191.1 (<0.1)	205.9 (0.3)	221.3 (<0.1)	238.0 (<0.1)	255.0 (<0.1)	273.9 (0.5)
191.2 (<0.1)	206.1 (0.6)	221.8 (<0.1)	238.2 (<0.1)	255.3 (<0.1)	274.2 (<0.1)
191.3 (<0.1)	206.3 (<0.1)	221.9 (<0.1)	238.3 (<0.1)	255.5 (0.2)	274.4 (<0.1)
191.4 (0.6)	206.4 (1.1)	222.1 (<0.1)	238.5 (0.1)	255.7 (<0.1)	274.5 (<0.1)
191.7 (<0.1)	206.6 (<0.1)	222.2 (<0.1)	238.7 (<0.1)	255.8 (<0.1)	275.0 (<0.1)
191.9 (<0.1)	206.7 (<0.1)	222.4 (<0.1)	238.8 (<0.1)	255.9 (<0.1)	275.2 (<0.1)
192.0 (<0.1)	206.9 (<0.1)	222.6 (0.2)	239.0 (<0.1)	256.1 (0.5)	275.4 (<0.1)
192.2 (<0.1)	207.1 (<0.1)	222.8 (<0.1)	239.2 (0.1)	256.2 (0.1)	275.5 (<0.1)
192.4 (0.2)	207.3 (0.1)	223.0 (<0.1)	239.4 (0.4)	256.6 (<0.1)	275.7 (<0.1)
192.6 (0.2)	207.4 (<0.1)	223.1 (<0.1)	239.6 (0.2)	256.9 (<0.1)	276.0 (0.4)
192.8 (<0.1)	207.6 (<0.1)	223.3 (<0.1)	239.9 (<0.1)	257.0 (<0.1)	276.1 (0.3)
192.9 (0.7)	207.7 (0.2)	223.5 (<0.1)	240.1 (<0.1)	257.2 (0.1)	276.2 (<0.1)
193.1 (0.4)	207.8 (0.4)	223.6 (<0.1)	240.3 (<0.1)	257.3 (0.1)	276.7 (<0.1)
193.3 (<0.1)	208.0 (0.1)	223.7 (<0.1)	240.4 (<0.1)	257.4 (<0.1)	276.9 (<0.1)
193.5 (<0.1)	208.2 (<0.1)	223.9 (<0.1)	240.6 (0.2)	257.8 (<0.1)	277.0 (0.1)
193.6 (<0.1)	208.4 (<0.1)	224.0 (<0.1)	240.7 (0.1)	258.2 (<0.1)	277.2 (<0.1)
193.8 (<0.1)	208.7 (<0.1)	224.3 (<0.1)	240.8 (0.2)	258.4 (<0.1)	277.3 (<0.1)
194.1 (<0.1)	208.9 (<0.1)	224.5 (<0.1)	241.1 (<0.1)	258.8 (<0.1)	277.6 (<0.1)
194.2 (<0.1)	209.0 (<0.1)	224.6 (0.2)	241.2 (<0.1)	258.9 (<0.1)	277.7 (0.1)
194.4 (<0.1)	209.4 (<0.1)	224.8 (0.3)	241.3 (<0.1)	259.1 (0.1)	278.1 (<0.1)
194.5 (<0.1)	209.5 (<0.1)	225.1 (0.5)	241.4 (<0.1)	259.4 (<0.1)	278.2 (<0.1)
194.6 (<0.1)	209.7 (<0.1)	225.2 (<0.1)	241.6 (<0.1)	259.6 (<0.1)	278.6 (<0.1)
194.8 (<0.1)	209.9 (0.2)	225.4 (<0.1)	241.9 (<0.1)	259.8 (<0.1)	278.7 (<0.1)
194.9 (<0.1)	210.0 (<0.1)	225.6 (<0.1)	242.2 (<0.1)	260.0 (<0.1)	278.9 (<0.1)
195.0 (<0.1)	210.2 (<0.1)	225.8 (<0.1)	242.3 (<0.1)	260.2 (<0.1)	279.0 (<0.1)
195.2 (<0.1)	210.4 (0.2)	225.9 (<0.1)	242.8 (0.2)	260.5 (<0.1)	279.1 (<0.1)
195.4 (<0.1)	210.7 (<0.1)	226.1 (<0.1)	242.9 (<0.1)	260.7 (<0.1)	279.4 (<0.1)
195.5 (0.2)	211.0 (<0.1)	226.3 (<0.1)	243.0 (0.2)	261.0 (<0.1)	279.5 (0.3)
195.8 (<0.1)	211.2 (<0.1)	226.4 (0.2)	243.2 (<0.1)	261.1 (<0.1)	279.6 (<0.1)
196.0 (<0.1)	211.3 (<0.1)	226.6 (<0.1)	243.4 (<0.1)	261.3 (<0.1)	279.8 (0.1)
196.2 (<0.1)	211.5 (<0.1)	226.7 (0.1)	243.7 (<0.8)	261.4 (<0.3)	280.0 (<0.1)
196.3 (0.1)	211.7 (0.1)	226.9 (<0.1)	244.0 (<0.1)	261.7 (<0.1)	280.3 (<0.1)
196.5 (<0.1)	211.8 (<0.1)	227.3 (0.6)	244.3 (<0.1)	262.1 (0.1)	280.5 (<0.1)
196.6 (<0.1)	211.9 (<0.1)	227.5 (<0.1)	244.4 (<0.1)	262.5 (<0.1)	280.7 (<0.1)
196.8 (<0.1)	212.1 (<0.1)	227.6 (<0.1)	244.5 (1.0)	262.7 (<0.1)	280.8 (<0.1)
197.0 (<0.1)	212.2 (<0.1)	227.7 (<0.1)	244.9 (0.2)	262.9 (0.1)	281.0 (<0.1)
197.2 (<0.1)	212.4 (<0.1)	228.1 (<0.1)	245.1 (<0.1)	263.0 (<0.1)	281.2 (<0.1)
197.4 (<0.1)	212.6 (<0.1)	228.4 (<0.1)	245.2 (0.2)	263.2 (0.4)	281.5 (0.2)

Table II. CAPTURE γ 's - nuclide sorted (cont.)

E_γ (keV) (χ 1 γ)	E_γ (keV) (χ 1 γ)	E_γ (keV) (χ 1 γ)	E_γ (keV) (χ 1 γ)	E_γ (keV) (χ 1 γ)	E_γ (keV) (χ 1 γ)
152Eu (cont.)					
281.7 (<0.1)	301.7 (<0.3)	324.9 (<0.1)	353.0 (<0.3)	386.1 (<0.1)	427.1 (<0.1)
281.9 (<0.2)	301.8 (<0.1)	325.3 (<0.8)	353.1 (<0.2)	386.4 (<0.1)	427.5 (<0.1)
282.2 (<0.1)	302.4 (<0.1)	325.8 (<0.1)	353.4 (<0.2)	387.2 (<0.1)	428.1 (<0.1)
282.5 (<0.4)	302.8 (<0.1)	326.1 (<0.1)	353.8 (<0.1)	387.6 (<0.1)	428.9 (<0.1)
282.7 (<0.1)	303.1 (<0.1)	326.4 (<0.1)	354.0 (<0.2)	388.2 (<0.1)	430.3 (<0.1)
283.2 (<0.1)	303.4 (<0.1)	326.5 (<0.2)	354.2 (<0.1)	388.5 (<0.1)	431.7 (<0.1)
283.3 (<0.1)	303.5 (<0.3)	326.6 (<0.4)	354.4 (<0.2)	389.3 (<0.1)	432.4 (<0.1)
283.5 (<0.1)	304.0 (<0.1)	327.3 (<0.1)	354.9 (<0.2)	389.8 (<0.1)	432.7 (<0.4)
283.6 (<0.1)	304.1 (<0.1)	327.7 (<0.1)	355.2 (<0.1)	390.3 (<0.2)	433.1 (<0.1)
283.7 (<0.1)	304.3 (<0.1)	327.8 (<0.1)	355.6 (<0.2)	390.7 (<0.1)	433.8 (<0.1)
283.9 (<0.1)	304.5 (<0.1)	328.1 (<0.1)	356.0 (<0.1)	390.9 (<0.1)	434.1 (<0.1)
284.0 (<0.1)	304.8 (<0.1)	328.3 (<0.1)	356.3 (<0.1)	391.1 (<0.1)	434.5 (<0.1)
284.3 (<0.1)	305.1 (<0.1)	329.0 (<0.1)	357.5 (<0.1)	391.5 (<0.1)	434.7 (<0.1)
284.4 (<0.2)	305.3 (<0.1)	329.3 (<0.1)	357.7 (<0.1)	391.9 (<0.1)	435.6 (<0.1)
284.7 (<0.1)	305.4 (<0.1)	329.5 (<0.1)	357.9 (<0.3)	392.2 (<0.1)	435.9 (<0.1)
284.9 (<0.1)	305.6 (<0.1)	329.9 (<0.2)	358.2 (<0.1)	392.5 (<0.1)	436.3 (<0.1)
285.0 (<0.1)	305.9 (<0.1)	330.3 (<0.1)	358.4 (<0.1)	393.0 (<0.1)	436.6 (<0.1)
285.3 (<0.1)	306.1 (<0.1)	330.6 (<0.2)	358.6 (<0.1)	393.5 (<0.1)	437.0 (<0.1)
285.5 (<0.1)	306.4 (<0.1)	330.7 (<0.2)	358.9 (<0.1)	393.6 (<0.1)	437.3 (<0.1)
286.0 (<0.1)	306.7 (<0.1)	331.0 (<0.1)	359.2 (<0.1)	394.4 (<0.1)	437.6 (<0.1)
286.2 (<0.1)	307.0 (<0.1)	331.4 (<0.1)	359.4 (<0.2)	394.8 (<0.1)	437.8 (<0.1)
286.6 (<0.1)	307.5 (<0.1)	331.8 (<0.1)	359.8 (<0.1)	395.0 (<0.1)	438.7 (<0.1)
286.7 (<0.1)	307.6 (<0.1)	332.0 (<0.2)	360.0 (<0.2)	395.8 (<0.1)	439.1 (<0.1)
286.8 (<0.1)	307.8 (<0.1)	332.1 (<0.1)	360.1 (<0.1)	396.1 (<0.1)	439.6 (<0.1)
287.2 (<0.5)	308.0 (<0.2)	332.3 (<0.1)	360.7 (<0.1)	396.7 (<0.1)	439.9 (<0.1)
287.3 (<0.1)	308.4 (<0.1)	332.8 (<0.1)	361.2 (<0.2)	397.0 (<0.2)	440.6 (<0.1)
287.5 (<0.2)	308.8 (<0.1)	333.3 (<0.1)	361.4 (<0.1)	397.3 (<0.1)	440.8 (<0.1)
287.6 (<0.2)	309.1 (<0.1)	333.6 (<0.1)	361.8 (<0.1)	397.7 (<0.1)	441.4 (<0.2)
287.8 (<0.1)	309.3 (<0.6)	333.9 (<0.2)	362.0 (<0.1)	397.9 (<0.1)	441.8 (<0.1)
288.2 (<0.2)	309.5 (<0.1)	334.4 (<0.1)	362.5 (<0.1)	398.3 (<0.1)	442.3 (<0.1)
288.4 (<0.1)	309.8 (<0.1)	334.5 (<0.1)	362.8 (<0.1)	398.7 (<0.1)	443.0 (<0.1)
288.7 (<0.2)	310.0 (<0.1)	334.8 (<0.2)	363.8 (<0.1)	399.4 (<0.1)	443.3 (<0.1)
289.0 (<0.2)	310.2 (<0.2)	334.9 (<0.1)	364.5 (<0.1)	399.7 (<0.1)	443.9 (<0.1)
289.2 (<0.2)	310.3 (<0.1)	335.5 (<0.1)	364.6 (<0.2)	400.3 (<0.1)	444.2 (<0.1)
289.3 (<0.1)	310.5 (<0.1)	335.6 (<0.1)	364.8 (<0.4)	400.8 (<0.1)	444.5 (<0.1)
289.8 (<0.1)	310.7 (<0.2)	336.0 (<0.1)	365.3 (<0.2)	401.3 (<0.1)	445.0 (<0.2)
290.0 (<0.1)	310.9 (<0.1)	336.4 (<0.1)	365.9 (<0.1)	401.8 (<0.1)	445.4 (<0.1)
290.1 (<0.1)	311.1 (<0.1)	336.5 (<0.1)	366.3 (<0.1)	402.1 (<0.1)	446.0 (<0.1)
290.3 (<0.1)	311.9 (<0.1)	337.0 (<0.1)	366.5 (<0.5)	403.0 (<0.1)	446.7 (<0.1)
290.5 (<0.1)	312.3 (<0.1)	337.4 (<0.1)	366.9 (<0.1)	403.5 (<0.2)	447.0 (<0.1)
290.7 (<0.1)	312.4 (<0.1)	337.5 (<0.2)	367.2 (<0.1)	404.0 (<0.1)	447.7 (<0.1)
291.0 (<0.1)	312.6 (<0.1)	337.8 (<0.1)	367.4 (<0.1)	404.4 (<0.1)	448.2 (<0.1)
291.3 (<0.1)	313.2 (<0.1)	338.2 (<0.1)	368.7 (<0.1)	404.7 (<0.1)	449.0 (<0.1)
291.5 (<0.1)	313.4 (<0.1)	338.4 (<0.1)	368.9 (<0.3)	404.9 (<0.1)	449.3 (<0.1)
291.9 (<0.1)	313.6 (<0.1)	338.5 (<0.1)	369.2 (<0.1)	405.4 (<0.1)	449.6 (<0.1)
292.2 (<0.1)	313.8 (<0.1)	338.8 (<0.1)	369.5 (<0.1)	406.3 (<0.1)	449.9 (<0.1)
292.5 (<0.1)	314.2 (<0.2)	339.2 (<0.1)	370.0 (<0.2)	406.8 (<0.1)	450.2 (<0.1)
292.7 (<0.1)	314.3 (<0.1)	339.4 (<0.2)	370.2 (<0.2)	407.3 (<0.1)	450.7 (<0.1)
292.9 (<0.1)	314.6 (<0.1)	339.7 (<0.1)	370.6 (<0.2)	408.3 (<0.1)	451.0 (<0.1)
293.2 (<0.1)	314.8 (<0.1)	339.9 (<0.1)	371.0 (<0.3)	408.8 (<0.1)	451.4 (<0.2)
293.4 (<0.2)	315.1 (<0.1)	340.1 (<0.1)	371.2 (<0.1)	409.1 (<0.1)	451.8 (<0.1)
293.6 (<0.1)	315.3 (<0.1)	340.5 (<0.2)	371.6 (<0.1)	410.1 (<0.1)	452.6 (<0.1)
293.8 (<0.1)	315.6 (<0.1)	340.7 (<0.1)	371.9 (<0.1)	410.3 (<0.1)	452.9 (<0.1)
294.1 (<0.1)	316.0 (<0.1)	340.9 (<0.1)	372.3 (<0.1)	410.7 (<0.1)	453.8 (<0.2)
294.2 (<0.1)	316.1 (<0.3)	341.1 (<0.1)	372.5 (<0.1)	411.0 (<0.1)	454.7 (<0.1)
294.3 (<0.1)	316.5 (<0.1)	342.4 (<0.1)	372.8 (<0.1)	411.3 (<0.1)	455.6 (<0.2)
294.5 (<0.1)	316.8 (<0.2)	343.1 (<0.1)	373.4 (<0.1)	411.7 (<0.1)	456.0 (<0.1)
294.7 (<0.1)	317.2 (<0.1)	343.3 (<0.1)	373.7 (<0.1)	412.2 (<0.2)	456.5 (<0.1)
294.8 (<0.1)	317.5 (<0.1)	343.5 (<0.1)	373.9 (<0.1)	412.7 (<0.1)	457.3 (<0.1)
295.0 (<0.1)	317.7 (<0.1)	343.6 (<0.1)	374.3 (<0.2)	413.3 (<0.2)	458.5 (<0.1)
295.1 (<0.3)	318.0 (<0.1)	344.5 (<0.1)	374.6 (<0.1)	413.6 (<0.1)	458.9 (<0.1)
295.4 (<0.1)	318.2 (<0.1)	344.7 (<0.1)	374.9 (<0.1)	414.5 (<0.2)	459.5 (<0.1)
295.5 (<0.4)	318.7 (<0.4)	344.8 (<0.1)	375.2 (<0.1)	414.8 (<0.1)	459.8 (<0.4)
295.7 (<0.1)	318.9 (<0.1)	345.1 (<0.1)	375.7 (<0.1)	415.0 (<0.1)	460.6 (<0.1)
295.8 (<0.1)	319.3 (<0.1)	345.4 (<0.1)	376.0 (<0.1)	415.4 (<0.1)	461.2 (<0.1)
295.9 (<0.1)	319.6 (<0.2)	345.9 (<0.1)	376.2 (<0.1)	416.0 (<0.1)	461.9 (<0.2)
296.4 (<0.1)	319.8 (<0.2)	346.1 (<0.1)	376.5 (<0.2)	417.1 (<0.1)	462.8 (<0.1)
296.5 (<0.1)	320.0 (<0.1)	346.3 (<0.1)	376.6 (<0.1)	417.7 (<0.1)	463.9 (<0.1)
296.7 (<0.1)	320.5 (<0.1)	347.2 (<0.1)	376.8 (<0.3)	418.3 (<0.1)	464.7 (<0.1)
297.1 (<0.1)	320.6 (<0.1)	347.6 (<0.1)	377.3 (<0.1)	419.3 (<0.1)	465.2 (<0.1)
297.3 (<0.3)	320.8 (<0.3)	347.8 (<0.1)	377.6 (<0.1)	420.1 (<0.1)	465.5 (<0.1)
297.5 (<0.1)	321.1 (<0.1)	348.4 (<0.1)	378.1 (<0.1)	420.6 (<0.1)	465.8 (<0.2)
297.7 (<0.1)	321.2 (<0.1)	348.6 (<0.2)	378.4 (<0.1)	421.0 (<0.1)	466.2 (<0.1)
297.9 (<0.1)	321.4 (<0.2)	348.8 (<0.1)	378.7 (<0.1)	421.3 (<0.1)	467.4 (<0.1)
298.2 (<0.1)	321.7 (<0.1)	349.0 (<0.1)	378.9 (<0.2)	422.0 (<0.1)	467.8 (<0.1)
298.5 (<0.1)	322.0 (<0.1)	349.2 (<0.1)	379.0 (<0.1)	422.3 (<0.1)	468.1 (<0.1)
298.8 (<0.1)	322.2 (<0.1)	349.4 (<0.1)	379.3 (<0.3)	422.6 (<0.1)	469.0 (<0.1)
299.0 (<0.1)	322.5 (<0.1)	349.9 (<0.1)	380.5 (<0.1)	422.8 (<0.1)	469.6 (<0.1)
299.3 (<0.1)	322.7 (<0.2)	350.1 (<0.1)	380.8 (<0.1)	423.1 (<0.1)	470.2 (<0.1)
299.5 (<0.1)	322.9 (<0.1)	350.3 (<0.1)	381.4 (<0.3)	423.6 (<0.1)	471.2 (<0.1)
299.8 (<1.0)	323.1 (<0.1)	350.4 (<0.1)	382.1 (<0.1)	423.9 (<0.4)	471.5 (<0.1)
300.2 (<0.2)	323.5 (<0.1)	350.5 (<0.1)	382.4 (<0.1)	424.1 (<0.1)	471.9 (<0.1)
300.6 (<0.1)	323.7 (<0.1)	350.7 (<0.1)	383.1 (<0.1)	424.4 (<0.1)	472.3 (<0.1)
300.9 (<0.1)	323.9 (<0.1)	351.3 (<0.1)	384.2 (<0.1)	425.3 (<0.1)	472.8 (<0.2)
301.2 (<0.1)	324.5 (<0.1)	351.9 (<0.1)	384.6 (<0.1)	425.9 (<0.1)	473.3 (<0.1)
301.3 (<0.1)	324.7 (<0.1)	352.2 (<0.1)	384.9 (<0.1)	426.4 (<0.2)	473.8 (<0.1)
		352.6 (<0.1)	385.3 (<0.1)	426.6 (<0.1)	474.5 (<0.1)

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_{\gamma}(\text{keV})$ ($\pi I \gamma$)	$E_{\gamma}(\text{keV})$ ($\pi I \gamma$)	$E_{\gamma}(\text{keV})$ ($\pi I \gamma$)	$E_{\gamma}(\text{keV})$ ($\pi I \gamma$)	$E_{\gamma}(\text{keV})$ ($\pi I \gamma$)	$E_{\gamma}(\text{keV})$ ($\pi I \gamma$)	$E_{\gamma}(\text{keV})$ ($\pi I \gamma$)	$E_{\gamma}(\text{keV})$ ($\pi I \gamma$)	$E_{\gamma}(\text{keV})$ ($\pi I \gamma$)	$E_{\gamma}(\text{keV})$ ($\pi I \gamma$)
1522u (cont.)	539.8 (0.1)	732.7 (0.3)	6129.6 (<0.1)	173.6 (<0.1)	146.7 (0.3)				
475.3 (<0.1)	540.7 (0.2)	734.2 (0.3)	6154.3 (<0.1)	178.2 (0.8)	147.1 (3.6)				
475.9 (0.1)	541.7 (0.1)	739.3 (0.2)	6163.5 (<0.1)	186.2 (0.4)	149.4 (0.3)				
476.8 (<0.1)	542.3 (0.2)	740.3 (<0.1)	6182.9 (<0.1)	193.1 (24.5)	162.1 (0.2)				
477.1 (<0.1)	542.8 (0.1)	741.8 (0.1)	6187.5 (<0.1)	199.0 (0.4)	163.2 (11.8)				
477.5 (<0.1)	543.6 (0.1)	743.2 (0.1)	6194.7 (<0.1)	201.0 (0.3)	166.6 (0.2)				
478.0 (<0.1)	544.5 (0.2)	877.3 (<0.1)	6215.6 (<0.1)	216.1 (0.6)	167.1 (0.2)				
478.9 (<0.1)	546.3 (0.2)	885.2 (<0.1)	6227.7 (0.2)	223.5 (5.8)	170.3 (1.1)				
479.2 (<0.1)	547.3 (0.2)	1136.0 (0.2)	6305.2 (<0.1)	237.9 (0.8)	171.5 (1.1)				
479.7 (0.1)	548.7 (0.2)	1175.7 (0.2)	1523u	241.7 (14.7)	173.3 (2.1)				
480.0 (<0.1)	549.6 (0.2)	5363.7 (<0.1)	3575.0 (48.0)	242.6 (2.1)	175.4 (18.3)				
480.9 (<0.1)	550.4 (0.2)	5378.0 (0.3)	3676.0 (4.0)	244.8 (5.5)	180.3 (0.2)				
481.7 (0.2)	551.3 (0.2)	5388.6 (<0.1)	3714.0 (39.6)	247.9 (1.2)	181.8 (0.2)				
482.2 (<0.1)	552.6 (0.1)	5402.5 (<0.1)	3751.0 (100.0)	249.6 (1.2)	182.9 (0.2)				
483.2 (<0.1)	554.5 (0.2)	5405.5 (<0.1)	3939.0 (30.0)	255.1 (0.4)	182.9 (22.6)				
484.0 (<0.1)	555.7 (0.2)	5412.1 (<0.1)	3953.0 (35.2)	268.2 (3.9)	184.8 (0.6)				
484.8 (<0.1)	556.9 (0.1)	5420.9 (<0.1)	4017.0 (44.0)	288.0 (4.4)	185.8 (0.9)				
485.8 (<0.1)	557.9 (0.3)	5426.4 (0.1)	4399.0 (52.0)	302.7 (3.6)	187.1 (0.2)				
486.0 (0.2)	558.9 (<0.1)	5438.5 (0.1)	4399.0 (52.0)	305.9 (0.5)	188.1 (0.3)				
486.6 (<0.1)	561.8 (0.3)	5453.6 (<0.1)	4616.0 (15.0)	319.8 (1.6)	193.8 (0.9)				
487.0 (0.1)	564.4 (0.2)	5461.7 (0.2)	5243.0 (11.6)	329.6 (1.5)	194.3 (0.9)				
488.2 (<0.1)	565.3 (0.2)	5463.7 (<0.1)	6023.0 (11.6)	338.2 (0.6)	194.7 (0.2)				
488.7 (0.1)	567.2 (0.3)	5465.0 (0.3)	6163.0 (9.6)	353.0 (1.9)	195.0 (0.2)				
489.2 (0.2)	568.2 (0.6)	5468.1 (<0.1)	6206.0 (6.0)	353.1 (1.6)	195.6 (0.2)				
489.5 (0.1)	569.4 (0.4)	5469.9 (<0.1)	6246.0 (2.8)	359.4 (1.5)	196.9 (0.2)				
491.6 (0.2)	570.6 (0.4)	5477.7 (<0.1)	6296.0 (10.8)	361.2 (1.3)	198.2 (0.2)				
492.1 (<0.1)	571.5 (0.2)	5479.9 (<0.1)	6325.0 (10.4)	463.6 (1.6)	200.9 (0.5)				
492.4 (<0.1)	572.4 (0.2)	5487.7 (<0.1)	6335.0 (3.6)	509.0 (2.0)	202.8 (0.2)				
493.0 (<0.1)	574.3 (0.1)	5493.1 (0.1)	6350.0 (4.8)	513.9 (4.1)	203.3 (0.6)				
493.4 (0.1)	575.2 (0.2)	5500.4 (<0.1)	6480.0 (5.2)	521.4 (3.1)	204.4 (1.1)				
494.0 (0.2)	576.6 (0.1)	5506.2 (<0.1)	6500.0 (2.4)	533.4 (4.6)	208.8 (1.5)				
494.7 (0.1)	577.3 (<0.1)	5581.7 (<0.1)	6603.0 (1.3)	539.0 (4.2)	211.2 (0.3)				
495.6 (<0.1)	579.2 (0.1)	5587.2 (<0.1)	6676.0 (4.6)	554.9 (5.2)	212.1 (0.3)				
495.9 (0.1)	579.7 (0.1)	5593.6 (0.2)	6886.0 (3.2)	578.7 (2.6)	220.8 (2.3)				
497.0 (0.1)	580.4 (0.1)	5612.5 (<0.1)	6886.0 (3.2)	586.6 (4.3)	222.7 (3.6)				
497.4 (<0.1)	581.1 (0.2)	5618.0 (<0.1)	7025.0 (1.6)	586.6 (4.3)	223.2 (3.6)				
498.4 (0.1)	582.1 (0.2)	5622.5 (<0.1)	7025.0 (1.6)	609.3 (2.2)	229.4 (0.2)				
498.7 (0.1)	587.6 (0.2)	5646.9 (<0.1)	7215.0 (3.2)	609.3 (6.1)	230.4 (0.2)				
499.4 (<0.1)	588.3 (<0.1)	5656.7 (<0.1)	7447.0 (1.6)	667.6 (3.0)	234.0 (0.5)				
499.8 (<0.1)	589.2 (0.1)	5661.1 (<0.1)	7892.0 (0.8)	1538u	240.9 (0.8)				
500.2 (0.1)	591.1 (0.2)	5670.1 (<0.1)	8136.0 (16.8)	7.5 (<0.1)	242.2 (0.2)				
500.8 (0.2)	592.1 (0.2)	5679.9 (<0.1)	1532u	28.3 (31.8)	243.1 (0.6)				
501.2 (<0.1)	594.8 (0.2)	5684.6 (<0.1)	39.3 (1.3)	35.6 (0.5)	244.1 (0.5)				
501.7 (0.1)	595.9 (0.2)	5693.6 (<0.1)	42.2 (0.3)	35.8 (0.5)	247.1 (0.3)				
502.6 (<0.1)	598.1 (0.2)	5705.5 (<0.1)	47.4 (0.8)	36.4 (0.3)	247.6 (0.3)				
503.2 (0.1)	599.5 (0.1)	5723.8 (0.1)	54.2 (6.5)	37.3 (3.3)	248.4 (0.3)				
505.4 (0.2)	603.8 (0.2)	5731.6 (<0.1)	68.3 (5.3)	46.0 (0.5)	249.7 (0.6)				
506.0 (0.2)	610.3 (0.1)	5736.6 (<0.1)	69.7 (19.3)	51.0 (2.1)	252.0 (0.8)				
507.3 (<0.1)	612.3 (0.2)	5742.3 (<0.1)	74.5 (0.2)	53.5 (2.1)	257.7 (0.3)				
508.2 (0.2)	614.4 (0.1)	5745.0 (<0.1)	75.4 (0.7)	55.0 (2.6)	257.7 (0.3)				
509.3 (0.1)	615.7 (0.2)	5754.0 (<0.1)	81.8 (0.2)	55.6 (0.5)	257.7 (0.3)				
510.1 (0.1)	616.3 (0.2)	5761.6 (<0.1)	83.4 (22.9)	57.9 (0.5)	258.4 (0.2)				
510.9 (0.2)	617.8 (0.2)	5768.1 (<0.1)	83.7 (11.3)	59.4 (0.6)	261.2 (0.8)				
511.7 (0.2)	618.2 (0.3)	5774.6 (<0.1)	86.6 (6.0)	63.7 (0.2)	261.6 (0.6)				
512.3 (0.1)	621.0 (0.1)	5804.3 (0.2)	88.3 (0.2)	66.2 (0.2)	261.6 (0.6)				
512.9 (0.1)	628.6 (0.1)	5828.6 (<0.1)	89.5 (0.6)	77.0 (0.6)	262.3 (0.2)				
513.6 (0.1)	629.2 (0.2)	5841.7 (<0.1)	89.8 (1.8)	79.4 (3.2)	262.9 (0.2)				
514.6 (0.1)	635.6 (0.1)	5844.5 (<0.1)	90.1 (0.2)	83.0 (0.9)	263.2 (0.3)				
517.1 (0.1)	644.2 (<0.1)	5850.2 (<0.1)	90.5 (20.2)	88.2 (0.2)	265.1 (0.9)				
519.5 (0.1)	650.8 (<0.1)	5858.6 (<0.1)	96.9 (100.0)	90.6 (0.8)	265.8 (0.2)				
520.2 (0.2)	657.2 (0.1)	5864.4 (<0.1)	97.4 (20.2)	90.8 (1.8)	267.6 (12.0)				
520.9 (0.1)	657.9 (0.1)	5869.1 (<0.1)	103.0 (<0.1)	91.5 (37.4)	269.2 (0.2)				
521.9 (0.1)	658.9 (<0.1)	5891.8 (<0.1)	103.2 (63.0)	91.5 (12.1)	271.4 (0.6)				
522.2 (0.2)	659.1 (0.1)	5904.3 (<0.1)	104.3 (<0.1)	93.8 (0.2)	276.7 (24.5)				
522.4 (0.1)	659.4 (0.2)	5914.1 (0.1)	107.9 (<0.1)	104.6 (0.2)	277.7 (2.9)				
523.0 (0.1)	659.7 (0.1)	5920.1 (<0.1)	109.7 (8.5)	104.9 (0.2)	282.5 (0.2)				
523.3 (0.1)	659.8 (0.1)	5920.2 (<0.1)	118.1 (1.2)	105.4 (0.3)	284.4 (0.2)				
524.2 (0.1)	659.9 (0.1)	5935.1 (<0.1)	123.1 (1.2)	108.7 (0.8)	285.2 (0.2)				
524.4 (0.1)	659.9 (0.1)	5935.2 (<0.1)	126.7 (12.2)	108.9 (0.8)	287.5 (0.5)				
526.0 (0.1)	659.9 (0.1)	5935.3 (<0.1)	128.8 (3.2)	112.6 (0.3)	289.7 (0.2)				
526.3 (0.1)	659.9 (0.1)	5935.4 (<0.1)	132.0 (2.0)	113.2 (0.2)	290.7 (1.4)				
527.4 (0.1)	660.2 (0.2)	5935.5 (<0.1)	137.8 (3.9)	117.3 (<0.1)	291.2 (0.5)				
528.3 (0.1)	660.3 (0.2)	6003.4 (<0.1)	141.5 (3.9)	118.8 (1.8)	293.5 (0.5)				
529.0 (0.1)	660.4 (0.1)	6003.5 (<0.1)	151.6 (25.0)	119.8 (43.0)	296.8 (0.6)				
529.6 (0.1)	661.0 (0.1)	6015.0 (<0.1)	151.9 (13.6)	120.6 (2.0)	298.2 (1.1)				
530.4 (0.1)	661.5 (0.1)	6022.8 (<0.1)	152.9 (0.5)	123.6 (0.2)	298.9 (1.5)				
532.3 (0.1)	662.3 (0.1)	6023.9 (<0.1)	155.0 (0.4)	125.4 (0.2)	303.2 (1.5)				
532.7 (0.1)	662.8 (0.1)	6024.3 (<0.1)	156.2 (0.7)	129.4 (10.5)	307.2 (14.1)				
533.4 (0.1)	664.3 (0.1)	6049.6 (<0.1)	161.1 (0.5)	135.5 (0.3)	308.7 (0.3)				
533.9 (0.1)	664.8 (0.1)	6049.6 (<0.1)	161.1 (0.5)	135.5 (0.3)	312.8 (0.3)				
535.1 (0.1)	665.4 (0.1)	6056.4 (<0.1)	161.6 (2.8)	138.2 (0.5)	313.5 (0.3)				
535.8 (0.1)	665.5 (0.1)	6057.5 (<0.1)	162.3 (2.1)	138.2 (0.5)	313.5 (0.3)				
536.6 (0.1)	666.2 (0.1)	6063.6 (<0.1)	162.3 (2.1)	138.2 (0.5)	313.5 (0.3)				
537.5 (0.1)	667.7 (0.1)	6102.8 (<0.1)	162.3 (2.1)	138.2 (0.5)	313.5 (0.3)				
537.9 (0.1)	668.3 (0.1)	6109.1 (<0.1)	162.3 (2.1)	138.2 (0.5)	313.5 (0.3)				
539.5 (0.1)	670.8 (0.1)	6109.1 (<0.1)	162.3 (2.1)	138.2 (0.5)	313.5 (0.3)				

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_{\gamma}(\text{keV})$ ($\lambda\gamma$)	$E_{\gamma}(\text{keV})$ ($\lambda\gamma$)	$E_{\gamma}(\text{keV})$ ($\lambda\gamma$)	$E_{\gamma}(\text{keV})$ ($\lambda\gamma$)	$E_{\gamma}(\text{keV})$ ($\lambda\gamma$)	$E_{\gamma}(\text{keV})$ ($\lambda\gamma$)
153Sm (cont.)					156Gd
314.6 (1.5)	589.8 (2.7)	14.6 (2.0)	166.7 (1.9)	294.2 (0.2)	98.0 (3.0)
315.2 (0.8)	593.8 (3.3)	18.1 (<0.1)	171.3 (0.3)	295.7 (0.5)	110.5 (3.5)
317.8 (2.0)	604.2 (1.1)	18.5 (<0.1)	173.0 (0.2)	296.4 (0.4)	111.9 (1.0)
321.1 (40.0)	605.9 (2.9)	27.5 (2.0)	175.3 (0.1)	297.4 (0.4)	117.7 (1.5)
326.5 (0.5)	610.1 (0.5)	27.8 (0.3)	176.3 (0.5)	299.0 (1.3)	119.8 (1.5)
327.8 (0.3)	614.4 (2.6)	28.5 (0.8)	177.5 (0.7)	300.0 (0.4)	134.1 (0.7)
329.4 (2.9)	618.9 (1.4)	28.8 (11.5)	179.7 (0.7)	5793.0 (<0.1)	138.5 (<0.1)
330.8 (1.5)	622.8 (21.5)	29.1 (0.5)	180.7 (0.6)	5803.1 (<0.1)	147.7 (0.3)
341.0 (1.1)	627.6 (5.5)	30.7 (0.2)	181.6 (1.3)	5819.1 (<0.1)	155.1 (0.2)
347.8 (0.3)	630.2 (27.6)	31.8 (7.7)	182.6 (3.0)	5839.3 (<0.1)	157.6 (0.5)
349.2 (1.8)	646.3 (3.5)	32.7 (<0.1)	183.8 (0.2)	5845.1 (<0.1)	167.3 (0.2)
350.2 (2.4)	649.8 (1.4)	33.3 (0.7)	184.9 (0.3)	5865.9 (<0.1)	172.4 (0.2)
351.2 (0.8)	659.9 (31.4)	35.8 (1.7)	187.5 (1.5)	5888.2 (<0.1)	189.0 (<0.1)
354.8 (15.3)	662.9 (2.4)	36.1 (0.9)	189.1 (0.2)	5905.1 (<0.1)	191.0 (<0.1)
356.6 (0.6)	675.3 (2.4)	36.5 (0.8)	190.3 (0.3)	5918.2 (<0.1)	199.2 (81.7)
358.5 (0.8)	681.7 (4.4)	37.0 (0.5)	191.2 (0.3)	5923.4 (<0.1)	205.4 (0.4)
359.1 (0.5)	689.4 (3.9)	37.5 (0.4)	191.8 (0.5)	5933.1 (<0.1)	231.1 (<0.1)
360.2 (0.6)	693.2 (4.2)	38.8 (0.5)	192.9 (0.6)	5939.9 (<0.1)	241.3 (0.1)
362.3 (12.3)	698.4 (5.3)	39.8 (3.6)	195.1 (0.9)	5952.1 (<0.1)	248.4 (0.1)
365.1 (0.5)	702.6 (3.3)	40.0 (0.9)	195.7 (2.0)	5959.4 (<0.1)	262.5 (0.7)
367.0 (0.5)	707.1 (3.5)	45.7 (1.2)	197.1 (0.5)	5965.6 (<0.1)	267.3 (<0.1)
368.3 (1.2)	714.9 (15.0)	50.2 (0.5)	198.1 (0.4)	5970.2 (<0.1)	276.3 (<0.1)
369.6 (4.5)	722.0 (1.5)	50.6 (0.9)	199.0 (0.5)	5987.0 (<0.1)	278.9 (<0.1)
370.4 (0.5)	727.4 (6.4)	51.0 (1.4)	199.9 (1.5)	6008.5 (<0.1)	280.4 (<0.1)
371.9 (0.3)	734.9 (25.0)	54.4 (1.2)	201.1 (1.1)	6018.6 (<0.1)	282.0 (<0.1)
372.9 (1.1)	743.1 (2.7)	57.2 (0.7)	203.8 (1.1)	6030.2 (<0.1)	288.5 (0.2)
374.7 (0.8)	746.7 (3.6)	59.4 (0.5)	204.8 (0.3)	6035.9 (<0.1)	296.4 (3.7)
379.1 (2.0)	749.9 (2.9)	60.3 (0.2)	205.5 (0.4)	6048.1 (<0.1)	304.5 (<0.1)
384.8 (1.5)	753.6 (8.3)	61.7 (0.5)	206.5 (0.9)	6089.3 (<0.1)	315.2 (<0.1)
386.0 (0.3)	757.6 (1.2)	62.8 (0.5)	207.4 (2.0)	6097.3 (<0.1)	318.6 (<0.1)
389.1 (0.8)	767.6 (10.3)	64.9 (1.2)	208.5 (0.5)	6102.7 (<0.1)	325.9 (<0.1)
390.2 (10.2)	772.3 (6.2)	66.7 (0.9)	209.5 (0.7)	6110.7 (<0.1)	327.9 (<0.1)
393.6 (1.7)	780.7 (8.0)	67.7 (7.8)	210.3 (1.7)	6120.6 (<0.1)	330.2 (<0.1)
396.5 (6.5)	788.7 (14.8)	68.2 (100.0)	210.9 (1.4)	6142.3 (<0.1)	339.4 (0.2)
397.9 (50.2)	808.4 (3.9)	74.1 (0.9)	212.3 (0.4)	6156.1 (<0.1)	345.2 (<0.1)
398.9 (0.8)	817.4 (1.5)	74.6 (1.9)	213.3 (0.7)	6160.2 (<0.1)	350.3 (1.8)
400.6 (0.5)	825.2 (7.4)	76.4 (0.1)	214.8 (1.2)	6187.3 (<0.1)	356.3 (2.0)
404.2 (28.0)	834.1 (7.3)	77.9 (0.5)	215.9 (0.7)	6202.9 (<0.1)	357.3 (<0.1)
407.3 (2.6)	839.0 (13.2)	79.5 (0.4)	216.8 (0.4)	6257.6 (<0.1)	359.5 (0.1)
413.8 (2.7)	847.2 (2.7)	80.8 (3.9)	219.2 (0.3)	6265.2 (<0.1)	360.8 (<0.1)
415.0 (46.1)	858.0 (3.5)	83.1 (0.3)	222.0 (0.7)	6303.6 (<0.1)	362.5 (<0.1)
417.1 (0.3)	871.3 (4.2)	85.1 (0.6)	223.2 (0.4)	6312.1 (<0.1)	375.7 (<0.1)
419.9 (0.2)	876.6 (13.6)	86.5 (0.6)	226.0 (1.5)	6316.6 (<0.1)	380.7 (0.2)
422.7 (0.3)	891.4 (3.2)	86.8 (0.6)	227.2 (1.3)	6339.3 (<0.1)	386.6 (<0.1)
426.0 (0.5)	902.9 (11.1)	89.2 (2.9)	228.1 (0.5)	6355.9 (<0.1)	387.4 (<0.1)
428.2 (0.3)	912.0 (5.3)	90.5 (4.0)	229.3 (0.3)	6369.2 (<0.1)	393.6 (<0.1)
433.1 (1.1)	924.4 (8.9)	92.2 (0.2)	231.7 (0.3)	6389.0 (<0.1)	398.0 (0.2)
435.4 (0.5)	941.2 (10.9)	93.5 (0.3)	232.9 (0.3)	6392.0 (<0.1)	401.1 (<0.1)
439.5 (4.2)	954.2 (9.1)	94.3 (5.6)	233.9 (0.4)	6439.2 (<0.1)	403.5 (<0.1)
442.5 (11.4)	969.9 (10.0)	99.3 (0.3)	234.9 (0.4)		407.2 (0.2)
445.2 (2.4)	979.3 (17.9)	100.1 (1.3)	236.0 (1.1)	155Sm	412.9 (<0.1)
447.3 (0.8)	988.6 (5.6)	100.9 (19.2)	237.1 (1.3)	3726.0 (8.9)	422.0 (0.2)
452.2 (0.3)	1023.8 (8.6)	102.2 (0.4)	238.2 (0.6)	3773.0 (16.4)	425.4 (<0.1)
456.2 (0.3)	1041.3 (10.8)	102.9 (2.5)	239.3 (2.6)	3849.0 (11.6)	427.2 (0.1)
459.9 (4.8)	1043.0 (4.2)	104.9 (0.7)	240.2 (0.3)	3882.0 (29.5)	429.5 (<0.1)
470.7 (28.2)	1049.0 (13.2)	105.5 (2.2)	241.0 (0.4)	3902.0 (10.7)	432.7 (<0.1)
473.6 (33.8)	1068.0 (2.0)	108.2 (0.2)	242.2 (0.9)	4019.0 (7.5)	434.6 (0.1)
481.1 (10.5)	1089.0 (1.7)	108.9 (4.2)	243.5 (0.6)	4028.0 (7.5)	450.3 (<0.1)
482.5 (2.6)	1099.0 (10.2)	112.6 (1.2)	247.1 (0.6)	4057.0 (14.6)	451.6 (<0.1)
488.6 (2.0)	1126.6 (3.9)	116.1 (0.5)	249.2 (0.6)	4089.0 (41.0)	455.4 (0.1)
491.5 (0.6)	1161.9 (12.7)	116.9 (0.4)	250.2 (0.5)	4130.0 (5.9)	455.5 (0.1)
494.3 (1.5)	1185.1 (2.1)	118.5 (1.0)	252.1 (0.8)	4156.0 (3.6)	456.4 (<0.1)
502.2 (3.5)	1194.4 (14.5)	119.4 (0.2)	253.1 (0.2)	4181.0 (6.6)	457.6 (0.1)
503.5 (1.1)	1204.4 (1.7)	119.8 (0.2)	255.8 (0.2)	4190.0 (44.3)	459.6 (0.6)
516.7 (7.1)	1220.4 (5.6)	120.4 (1.2)	257.3 (0.4)	4252.0 (5.2)	465.0 (0.1)
518.0 (1.7)	1244.4 (1.1)	124.4 (1.1)	263.1 (1.9)	4309.0 (19.7)	467.7 (<0.1)
521.1 (0.6)	1257.0 (0.4)	125.7 (0.4)	265.6 (0.1)	4335.0 (4.9)	472.5 (0.9)
523.1 (1.5)	1269.9 (0.9)	126.9 (0.9)	266.9 (0.5)	4435.0 (18.0)	476.5 (<0.1)
524.2 (2.3)	1282.0 (0.2)	128.2 (0.2)	267.7 (0.4)	4446.0 (36.1)	479.0 (0.1)
530.7 (0.9)	1293.3 (1.1)	129.3 (1.1)	270.2 (0.6)	4462.0 (19.7)	482.0 (<0.1)
532.9 (2.3)	1310.4 (0.9)	131.0 (0.9)	270.6 (0.3)	4476.0 (7.0)	484.8 (0.4)
535.4 (2.1)	1327.7 (0.3)	132.7 (0.3)	271.9 (0.2)	4511.0 (3.1)	489.1 (0.1)
539.2 (1.7)	1346.0 (0.4)	134.6 (0.4)	273.9 (0.3)	4527.0 (4.9)	494.1 (0.4)
540.5 (1.8)	1353.3 (1.9)	135.3 (1.9)	275.2 (0.3)	4660.0 (4.1)	494.6 (0.4)
549.7 (0.9)	1367.1 (0.2)	136.7 (0.2)	276.2 (0.2)	4700.0 (8.4)	495.8 (0.6)
551.7 (1.4)	1454.4 (2.4)	145.4 (2.4)	277.5 (0.4)	4711.0 (3.9)	499.6 (0.5)
559.9 (2.0)	1462.7 (5.0)	146.2 (5.0)	278.1 (0.6)	4867.0 (55.7)	510.9 (<0.1)
561.6 (0.8)	1505.9 (0.2)	150.5 (0.2)	279.1 (0.4)	4902.0 (6.6)	518.4 (<0.1)
564.7 (2.1)	1511.5 (0.2)	151.1 (0.2)	280.2 (0.2)	4988.0 (100.0)	520.3 (0.2)
567.5 (7.9)	1554.7 (1.8)	155.1 (0.6)	281.7 (4.7)	5011.0 (3.6)	522.3 (0.2)
568.5 (3.5)	1559.1 (1.2)	157.1 (0.2)	282.7 (0.3)	5028.0 (19.7)	526.9 (0.8)
574.1 (1.5)	1574.0 (65.9)	157.4 (65.9)	284.2 (0.2)	5173.0 (1.8)	530.5 (<0.1)
575.0 (1.7)	15832.4 (16.5)	158.6 (16.5)	285.0 (0.2)	5270.0 (5.2)	532.3 (1.1)
579.9 (2.3)	15860.2 (0.2)	160.2 (0.4)	289.0 (0.9)	5329.0 (4.6)	534.0 (<0.1)
583.0 (4.2)	15868.2 (2.1)	161.3 (0.3)	290.7 (0.4)	5806.0 (3.3)	536.1 (<0.1)
586.4 (4.1)		163.9 (0.5)	291.8 (0.1)	5813.0 (2.6)	537.6 (0.1)
	154Eu	164.5 (0.4)	293.2 (0.1)		
	10.9 (0.7)				

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_{\gamma}(\text{keV})$ ($\chi_{1\gamma}$)	$E_{\gamma}(\text{keV})$ ($\chi_{1\gamma}$)	$E_{\gamma}(\text{keV})$ ($\chi_{1\gamma}$)	$E_{\gamma}(\text{keV})$ ($\chi_{1\gamma}$)	$E_{\gamma}(\text{keV})$ ($\chi_{1\gamma}$)	$E_{\gamma}(\text{keV})$ ($\chi_{1\gamma}$)
156Gd (cont.)					
543.6 (0.1)	793.8 (<0.1)	1129.4 (2.9)	1828.1 (1.0)	2598.2 (<0.1)	120.7 (<0.1)
545.9 (<0.1)	796.2 (0.3)	1132.1 (<0.1)	1832.9 (<0.1)	2610.5 (<0.1)	122.2 (<0.1)
548.0 (<0.1)	801.7 (<0.1)	1137.2 (<0.1)	1845.5 (0.5)	2626.9 (<0.1)	122.9 (<0.1)
548.0 (<0.1)	803.8 (<0.1)	1139.5 (0.2)	1850.8 (<0.1)	2646.0 (<0.1)	124.7 (<0.1)
555.1 (<0.1)	805.0 (0.3)	1154.1 (27.7)	1857.5 (1.6)	2654.0 (<0.1)	124.8 (<0.1)
556.2 (<0.1)	810.2 (<0.1)	1159.0 (16.2)	1867.4 (<0.1)	2671.6 (<0.1)	131.8 (<0.1)
557.7 (0.1)	811.8 (0.8)	1169.0 (0.4)	1873.0 (1.4)	2682.9 (<0.1)	134.3 (<0.1)
557.9 (0.1)	814.4 (<0.1)	1174.2 (4.7)	1879.9 (<0.1)	2694.2 (<0.1)	134.8 (<0.1)
560.8 (0.2)	816.3 (1.6)	1180.4 (8.5)	1887.3 (<0.1)	2703.4 (<0.1)	135.3 (0.5)
567.6 (0.1)	822.1 (<0.1)	1184.2 (0.5)	1893.0 (<0.1)	2736.4 (<0.1)	137.2 (<0.1)
573.9 (<0.1)	823.4 (1.0)	1187.1 (<0.1)	1902.7 (0.7)	2748.0 (<0.1)	139.3 (<0.1)
579.5 (0.6)	826.6 (0.2)	1198.0 (<0.1)	1907.7 (<0.1)	2761.0 (<0.1)	139.4 (<0.1)
585.1 (<0.1)	830.9 (<0.1)	1203.1 (<0.1)	1915.5 (0.8)	2781.0 (<0.1)	139.9 (<0.1)
586.2 (<0.1)	833.6 (0.2)	1209.0 (0.5)	1922.9 (1.3)	2817.0 (<0.1)	141.2 (<0.1)
592.2 (<0.1)	841.2 (<0.1)	1218.7 (2.8)	1937.4 (<0.1)	2838.0 (<0.1)	142.5 (<0.1)
593.4 (<0.1)	843.8 (<0.1)	1222.4 (1.3)	1947.8 (1.2)	2857.0 (<0.1)	142.8 (<0.1)
595.3 (<0.1)	845.3 (<0.1)	1225.4 (<0.1)	1946.1 (1.1)	2871.0 (<0.1)	143.1 (<0.1)
596.6 (0.4)	847.4 (<0.1)	1230.7 (2.2)	1955.9 (0.9)	2878.0 (<0.1)	144.0 (<0.1)
600.9 (0.3)	849.4 (0.4)	1233.1 (<0.1)	1959.0 (1.5)	2894.0 (<0.1)	145.8 (<0.1)
603.4 (<0.1)	851.8 (<0.1)	1238.3 (0.5)	1962.0 (0.7)	2907.0 (<0.1)	146.8 (<0.1)
607.1 (<0.1)	855.7 (<0.1)	1242.5 (<0.1)	1965.2 (3.8)	2916.0 (<0.1)	149.2 (<0.1)
608.8 (0.6)	858.2 (<0.1)	1245.7 (<0.1)	1981.6 (1.0)	2932.0 (<0.1)	149.9 (<0.1)
614.4 (<0.1)	865.8 (<0.1)	1250.7 (0.7)	1987.0 (1.1)	2984.0 (0.4)	150.6 (<0.1)
616.1 (<0.1)	868.4 (0.3)	1255.1 (<0.1)	1999.7 (<0.1)	2997.0 (<0.1)	151.9 (<0.1)
617.5 (<0.1)	870.9 (0.2)	1258.2 (0.6)	2014.4 (0.9)	3026.0 (<0.1)	153.5 (<0.1)
619.3 (<0.1)	874.8 (<0.1)	1266.3 (0.8)	2017.9 (2.3)	3048.0 (<0.1)	154.9 (0.2)
620.9 (<0.1)	877.6 (0.2)	1271.7 (<0.1)	2027.0 (0.6)	3056.0 (<0.1)	159.0 (<0.1)
622.1 (<0.1)	882.0 (<0.1)	1277.5 (1.2)	2032.4 (1.2)	3069.0 (<0.1)	160.6 (<0.1)
626.3 (<0.1)	885.3 (<0.1)	1279.2 (<0.1)	2047.7 (0.5)	3137.0 (<0.1)	164.1 (<0.1)
627.2 (<0.1)	886.6 (<0.1)	1284.5 (<0.1)	2051.2 (0.7)	3210.0 (<0.1)	167.4 (<0.1)
628.7 (<0.1)	890.3 (<0.1)	1291.8 (0.2)	2058.3 (0.6)	3354.0 (<0.1)	171.3 (<0.1)
629.3 (0.3)	896.3 (0.5)	1299.9 (<0.1)	2061.5 (0.9)	5430.9 (0.2)	172.6 (<0.1)
636.2 (<0.1)	901.9 (0.3)	1303.0 (<0.1)	2078.6 (<0.1)	5550.4 (0.3)	177.8 (<0.1)
638.5 (0.1)	905.1 (0.3)	1307.0 (0.3)	2087.9 (0.6)	5589.6 (0.3)	181.9 (100.0)
646.2 (0.2)	908.4 (<0.1)	1313.3 (<0.1)	2098.2 (0.6)	5662.5 (0.4)	184.5 (<0.1)
648.1 (0.2)	913.4 (0.3)	1320.2 (0.1)	2109.1 (0.3)	5697.2 (0.4)	185.9 (<0.1)
651.2 (0.2)	915.1 (0.3)	1324.8 (<0.1)	2111.3 (0.8)	5706.9 (0.2)	188.8 (<0.1)
654.3 (<0.1)	922.3 (1.0)	1327.6 (1.0)	2114.6 (0.3)	5748.0 (<0.1)	189.1 (<0.1)
655.7 (0.2)	925.8 (0.2)	1332.2 (0.3)	2127.7 (2.0)	5774.3 (0.3)	193.0 (<0.1)
658.1 (0.3)	927.1 (0.5)	1334.5 (1.3)	2136.0 (0.3)	5833.8 (0.1)	193.3 (<0.1)
658.2 (0.3)	932.4 (0.5)	1337.2 (<0.1)	2139.4 (0.4)	5885.0 (0.3)	193.8 (<0.1)
660.2 (<0.1)	936.7 (<0.1)	1346.0 (0.2)	2149.1 (0.6)	6034.9 (0.5)	194.9 (<0.1)
662.2 (<0.1)	938.1 (0.4)	1349.2 (0.3)	2152.6 (1.3)	6088.6 (0.4)	195.5 (<0.1)
665.1 (<0.1)	940.9 (0.6)	1361.9 (<0.1)	2167.6 (0.5)	6100.9 (0.2)	196.9 (<0.1)
666.6 (0.1)	944.3 (<0.1)	1366.5 (0.5)	2170.9 (0.4)	6121.3 (0.1)	197.4 (<0.1)
668.2 (0.3)	946.5 (0.4)	1370.0 (<0.1)	2178.8 (<0.1)	6154.1 (<0.1)	197.7 (<0.1)
668.5 (0.3)	948.9 (0.8)	1373.3 (0.8)	2180.6 (0.7)	6234.8 (0.2)	198.1 (<0.1)
670.3 (0.6)	952.4 (<0.1)	1380.1 (0.3)	2186.8 (0.7)	6279.2 (0.1)	198.4 (<0.1)
672.4 (0.2)	953.9 (<0.1)	1392.2 (<0.1)	2190.5 (0.8)	6308.3 (0.1)	198.9 (<0.1)
674.7 (0.3)	960.1 (1.4)	1398.5 (0.2)	2202.3 (0.3)	6318.5 (0.2)	200.1 (<0.1)
681.0 (<0.1)	968.6 (<0.1)	1404.3 (0.5)	2204.9 (0.4)	6331.5 (<0.1)	200.9 (<0.1)
683.0 (<0.1)	969.8 (8.3)	1413.8 (<0.1)	2211.6 (2.0)	6348.1 (0.2)	203.5 (<0.1)
684.4 (0.2)	974.3 (0.7)	1421.5 (0.4)	2214.1 (1.3)	6485.0 (0.3)	203.7 (<0.1)
687.0 (0.5)	987.9 (0.7)	1428.7 (0.3)	2220.3 (<0.1)	6482.2 (0.2)	204.1 (0.1)
689.6 (<0.1)	998.3 (0.2)	1432.9 (0.3)	2228.1 (0.8)	6508.6 (<0.1)	205.4 (<0.1)
691.9 (0.1)	1000.9 (<0.1)	1437.7 (<0.1)	2234.2 (0.7)	6568.8 (0.2)	208.9 (<0.1)
696.3 (<0.1)	1006.0 (0.4)	1449.8 (0.7)	2238.6 (<0.1)	6580.8 (<0.1)	209.0 (<0.1)
697.9 (1.8)	1009.6 (0.5)	1480.1 (0.8)	2252.9 (<0.1)	6600.3 (<0.1)	209.4 (<0.1)
703.0 (<0.1)	1016.1 (<0.1)	1491.6 (0.2)	2265.0 (<0.1)	6619.5 (<0.1)	210.4 (<0.1)
704.5 (1.3)	1018.2 (<0.1)	1516.7 (<0.1)	2270.0 (<0.1)	6683.0 (<0.1)	211.0 (<0.1)
708.2 (<0.1)	1022.0 (<0.1)	1518.2 (0.2)	2276.6 (<0.1)	6706.9 (<0.1)	212.8 (<0.1)
710.2 (0.6)	1027.2 (0.4)	1521.8 (0.2)	2291.9 (<0.1)	6758.6 (0.2)	213.0 (0.2)
711.7 (<0.1)	1030.5 (<0.1)	1563.5 (<0.1)	2293.2 (0.9)	6765.9 (0.2)	214.0 (<0.1)
714.3 (<0.1)	1032.4 (1.5)	1594.7 (<0.1)	2305.4 (<0.1)	7168.5 (<0.1)	215.3 (<0.1)
716.3 (1.3)	1036.7 (1.3)	1605.3 (1.9)	2310.8 (<0.1)	7215.9 (<0.1)	215.9 (<0.1)
718.1 (<0.1)	1040.5 (1.5)	1612.3 (0.3)	2335.2 (<0.1)	7260.2 (<0.1)	217.7 (0.2)
721.3 (<0.1)	1043.1 (<0.1)	1618.5 (<0.1)	2346.1 (1.0)	7277.3 (0.2)	218.2 (0.6)
723.0 (7.7)	1046.1 (0.2)	1625.5 (0.3)	2347.6 (0.6)	7288.1 (0.2)	218.8 (<0.1)
727.4 (<0.1)	1049.5 (<0.1)	1628.2 (1.0)	2356.9 (1.0)	7294.6 (<0.1)	219.0 (<0.1)
730.5 (<0.1)	1051.5 (0.5)	1635.6 (<0.1)	2361.3 (0.7)	7367.2 (1.2)	219.5 (<0.1)
734.7 (0.3)	1059.8 (<0.1)	1641.0 (<0.1)	2363.1 (1.0)	7381.6 (0.4)	220.6 (<0.1)
738.2 (<0.1)	1065.2 (19.3)	1646.2 (1.3)	2378.5 (0.3)	7406.3 (0.3)	221.6 (<0.1)
742.3 (<0.1)	1067.3 (7.7)	1682.2 (0.6)	2389.0 (0.4)	7485.8 (0.2)	222.3 (<0.1)
744.2 (0.2)	1073.3 (1.1)	1714.2 (<0.1)	2402.1 (0.6)	8446.3 (<0.1)	224.0 (<0.1)
746.8 (7.3)	1079.3 (0.3)	1723.8 (1.1)	2412.5 (1.0)	8535.0 (0.4)	224.2 (<0.1)
748.8 (1.4)	1082.4 (<0.1)	1728.5 (0.6)	2419.6 (0.4)		225.0 (<0.1)
754.2 (<0.1)	1086.2 (0.2)	1732.2 (1.0)	2424.0 (0.2)	156Gd	225.7 (<0.1)
755.7 (0.6)	1091.8 (0.3)	1728.9 (0.3)	2428.6 (0.5)	79.5 (53.2)	226.2 (<0.1)
760.9 (<0.1)	1093.4 (0.2)	1753.8 (0.5)	2459.1 (0.3)	80.5 (<0.1)	226.5 (<0.1)
767.8 (<0.1)	1097.2 (<0.1)	1757.4 (1.2)	2465.2 (0.4)	97.4 (<0.1)	228.0 (<0.1)
769.3 (<0.1)	1099.9 (<0.1)	1762.5 (1.3)	2491.8 (<0.1)	99.8 (<0.1)	228.1 (<0.1)
778.5 (1.3)	1102.2 (0.2)	1766.0 (0.7)	2497.4 (<0.1)	100.8 (<0.1)	229.2 (<0.1)
780.5 (1.7)	1106.0 (0.6)	1782.2 (0.3)	2507.6 (<0.1)	101.0 (<0.1)	229.6 (<0.1)
785.9 (<0.1)	1109.6 (<0.1)	1806.4 (<0.1)	2526.6 (<0.1)	114.5 (<0.1)	229.9 (<0.1)
787.0 (0.6)	1114.9 (<0.1)	1815.7 (0.1)	2557.5 (<0.1)	116.7 (<0.1)	230.2 (0.3)
788.1 (<0.1)	1117.1 (0.5)	1818.5 (1.7)	2574.4 (<0.1)	117.3 (<0.1)	232.0 (<0.1)
789.8 (0.2)	1119.8 (2.8)	1826.3 (2.2)	2590.6 (<0.1)	118.5 (<0.1)	233.2 (<0.1)

Table II. CAPTURE γ 's - nuclide sorted (cont)

$E_{\gamma}(\text{keV})$ (γ)	$E_{\gamma}(\text{keV})$ (γ)	$E_{\gamma}(\text{keV})$ (γ)	$E_{\gamma}(\text{keV})$ (γ)	$E_{\gamma}(\text{keV})$ (γ)	$E_{\gamma}(\text{keV})$ (γ)
188Gd (cont.)					
233.8 (0.1)	317.0 (0.1)	397.9 (0.1)	496.9 (0.1)	631.1 (0.4)	795.2 (0.5)
235.1 (0.1)	317.3 (0.1)	398.8 (0.1)	498.4 (0.1)	632.3 (0.1)	796.6 (0.1)
235.4 (0.3)	319.3 (0.1)	399.2 (0.1)	498.6 (0.2)	633.3 (0.1)	804.0 (0.1)
236.2 (0.1)	319.4 (0.1)	403.2 (0.1)	500.0 (0.1)	634.8 (0.1)	808.3 (0.1)
236.9 (0.1)	320.8 (0.1)	407.4 (0.1)	502.8 (0.6)	635.7 (0.2)	810.3 (0.1)
239.9 (0.1)	321.9 (0.1)	408.9 (0.1)	505.0 (0.1)	637.2 (0.1)	814.6 (0.1)
241.3 (0.1)	322.6 (0.1)	408.9 (0.1)	508.3 (0.1)	646.1 (0.4)	816.4 (0.1)
242.1 (0.1)	323.8 (0.1)	410.1 (0.1)	515.2 (0.1)	647.4 (0.1)	819.5 (0.6)
244.4 (0.1)	323.8 (0.1)	412.3 (0.1)	516.4 (0.1)	653.1 (0.1)	820.1 (1.7)
245.4 (0.1)	328.9 (0.1)	413.7 (0.1)	518.8 (0.1)	654.0 (0.1)	823.7 (0.2)
247.7 (0.1)	328.9 (0.1)	414.4 (0.1)	520.8 (0.1)	654.7 (0.1)	827.1 (0.2)
248.0 (0.1)	329.8 (0.1)	416.4 (0.1)	523.5 (0.2)	660.4 (0.2)	827.8 (0.1)
250.0 (0.1)	330.3 (0.1)	417.1 (0.1)	526.2 (0.1)	660.4 (0.1)	830.5 (0.1)
251.4 (0.1)	331.9 (0.1)	417.8 (0.1)	528.2 (0.5)	661.4 (0.1)	832.9 (0.1)
252.3 (0.1)	332.7 (0.1)	418.5 (0.1)	530.1 (0.1)	666.5 (0.2)	835.8 (0.3)
253.9 (0.1)	333.5 (0.1)	419.5 (0.1)	531.6 (0.1)	667.2 (0.1)	837.2 (0.1)
254.3 (0.1)	334.7 (0.1)	421.2 (0.1)	533.7 (0.1)	669.3 (0.8)	843.2 (0.1)
255.7 (4.8)	336.2 (0.5)	423.7 (0.1)	536.4 (0.2)	674.1 (1.1)	843.8 (0.4)
256.5 (0.1)	337.3 (0.1)	425.2 (0.1)	537.1 (0.1)	675.4 (0.1)	847.7 (0.1)
257.3 (0.1)	337.8 (0.1)	426.5 (0.1)	538.5 (0.1)	678.8 (0.1)	848.3 (0.3)
258.6 (0.1)	339.0 (0.3)	427.9 (0.1)	539.9 (0.1)	682.6 (0.1)	851.3 (0.4)
261.0 (0.1)	341.7 (0.1)	428.5 (0.1)	540.9 (0.1)	686.3 (0.2)	852.9 (0.2)
262.9 (0.1)	343.2 (0.1)	428.5 (0.1)	541.9 (0.1)	686.3 (0.1)	853.3 (0.2)
263.9 (0.1)	343.9 (0.1)	429.5 (0.1)	542.9 (0.1)	688.8 (0.1)	855.8 (0.5)
265.4 (0.1)	345.0 (0.1)	430.3 (0.1)	546.0 (0.1)	691.1 (0.1)	859.8 (0.3)
266.5 (0.1)	345.2 (0.1)	431.2 (0.1)	547.7 (0.1)	693.1 (0.1)	861.3 (0.1)
271.4 (0.1)	346.5 (0.1)	432.1 (0.1)	550.3 (0.1)	693.9 (0.1)	863.0 (0.1)
272.8 (0.1)	347.5 (0.1)	432.7 (0.1)	551.4 (0.1)	697.3 (0.1)	866.0 (0.1)
273.0 (0.1)	348.2 (0.1)	433.4 (0.1)	553.5 (0.1)	697.3 (0.1)	867.2 (0.1)
276.0 (0.1)	349.1 (0.1)	433.5 (0.3)	556.7 (0.1)	698.6 (0.6)	870.2 (0.5)
277.5 (6.2)	349.4 (0.2)	435.5 (0.1)	558.3 (0.1)	700.6 (0.1)	872.0 (0.2)
278.2 (0.2)	350.9 (0.1)	438.6 (0.1)	561.3 (0.1)	702.3 (0.1)	875.0 (0.1)
279.3 (0.1)	351.1 (0.1)	438.8 (0.1)	561.8 (0.1)	704.9 (0.1)	875.0 (0.1)
280.6 (0.1)	352.0 (0.1)	439.2 (0.1)	562.3 (0.1)	707.3 (0.1)	880.5 (0.1)
280.8 (0.1)	353.6 (0.1)	443.0 (0.1)	563.9 (0.1)	708.5 (0.8)	884.1 (0.3)
281.6 (0.4)	353.8 (0.1)	444.0 (0.1)	563.6 (0.1)	710.3 (0.1)	885.7 (0.1)
282.7 (0.1)	355.1 (0.1)	444.2 (0.1)	565.9 (0.1)	711.0 (0.1)	889.1 (0.2)
284.0 (0.1)	355.9 (0.1)	445.2 (0.1)	566.6 (0.1)	712.5 (0.2)	892.3 (0.7)
284.3 (0.1)	356.3 (0.1)	445.7 (0.1)	569.8 (0.1)	713.5 (0.1)	897.0 (0.3)
285.2 (0.1)	359.1 (0.1)	447.6 (0.1)	570.4 (0.1)	715.9 (0.1)	897.6 (0.5)
285.9 (0.1)	359.6 (0.1)	448.9 (0.1)	571.5 (0.1)	715.9 (0.1)	899.7 (0.8)
287.3 (0.1)	360.7 (0.1)	451.2 (0.1)	571.8 (0.1)	715.9 (0.1)	902.0 (0.2)
288.0 (0.1)	361.5 (0.1)	453.2 (0.1)	574.2 (0.1)	725.1 (0.1)	902.0 (0.1)
289.0 (0.1)	361.8 (0.1)	453.7 (0.1)	578.2 (0.1)	727.3 (0.1)	905.3 (0.4)
290.9 (0.1)	362.7 (0.1)	454.6 (0.1)	582.8 (0.1)	731.1 (0.1)	909.5 (0.1)
291.9 (0.1)	363.2 (0.1)	455.0 (0.2)	584.4 (0.1)	734.3 (0.7)	910.2 (0.4)
292.1 (0.1)	363.4 (0.1)	455.2 (0.2)	584.9 (0.1)	735.3 (0.1)	913.4 (0.2)
292.5 (0.1)	365.0 (0.9)	456.5 (0.1)	586.4 (0.2)	736.5 (0.4)	915.0 (0.3)
293.1 (0.1)	365.6 (0.1)	457.8 (0.1)	587.4 (0.1)	742.0 (0.1)	917.5 (0.8)
293.7 (0.1)	368.8 (0.1)	460.5 (0.1)	588.0 (0.1)	744.9 (0.1)	918.2 (0.1)
296.0 (0.1)	370.4 (0.1)	463.6 (0.1)	590.0 (0.1)	746.4 (0.1)	920.2 (0.1)
298.2 (0.1)	371.5 (0.1)	466.5 (0.1)	592.9 (0.3)	749.0 (0.4)	922.5 (0.1)
299.6 (0.1)	373.0 (0.1)	468.5 (0.1)	595.1 (1.0)	750.1 (1.2)	925.6 (0.5)
301.6 (0.1)	374.1 (0.1)	469.3 (0.1)	597.5 (0.1)	751.9 (0.1)	930.7 (0.2)
301.9 (0.1)	375.0 (0.1)	472.4 (0.1)	599.5 (0.1)	756.4 (0.1)	933.5 (0.5)
303.7 (0.1)	377.0 (0.1)	475.2 (0.1)	600.8 (0.1)	757.1 (0.2)	938.5 (0.3)
304.3 (0.1)	377.2 (0.1)	475.8 (0.2)	602.7 (0.1)	759.4 (0.1)	941.2 (0.3)
304.9 (0.1)	378.3 (0.1)	476.7 (0.1)	604.3 (0.1)	761.7 (0.1)	941.2 (0.5)
305.8 (0.1)	381.6 (0.1)	477.4 (0.1)	606.4 (3.5)	763.9 (0.7)	944.1 (0.8)
306.8 (0.1)	382.0 (0.1)	477.8 (0.1)	607.4 (0.1)	768.1 (0.2)	944.6 (0.2)
307.6 (0.1)	383.3 (0.1)	479.1 (0.6)	609.8 (0.1)	768.4 (0.6)	948.8 (1.1)
308.2 (0.1)	383.8 (0.1)	480.6 (0.1)	611.9 (0.1)	771.8 (0.1)	952.9 (0.7)
308.4 (0.1)	387.1 (0.1)	485.4 (0.1)	613.4 (0.1)	772.9 (0.1)	954.3 (0.9)
309.3 (0.1)	388.8 (0.2)	487.5 (0.1)	615.9 (0.1)	774.5 (0.1)	956.0 (0.8)
310.1 (0.1)	388.8 (0.1)	490.8 (0.1)	617.9 (0.1)	775.6 (0.1)	962.1 (0.7)
311.7 (0.1)	392.8 (0.1)	491.7 (0.1)	619.5 (0.2)	776.9 (0.5)	965.9 (0.8)
312.5 (0.1)	392.8 (0.1)	492.1 (0.1)	620.7 (0.1)	779.1 (0.6)	968.2 (0.2)
314.2 (0.1)	394.6 (0.1)	493.6 (0.1)	625.8 (0.1)	780.7 (1.0)	972.6 (0.7)
315.0 (0.1)	396.3 (0.1)	494.8 (0.1)	627.0 (0.2)	780.9 (0.4)	975.4 (2.1)
316.8 (0.1)	397.1 (0.1)	496.2 (0.1)	630.9 (0.1)	784.7 (0.2)	978.7 (0.3)
					984.0 (0.6)
					986.8 (0.6)
					991.7 (0.6)

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_{\gamma}(\text{keV})$ ($\lambda I \gamma$)	$E_{\gamma}(\text{keV})$ ($\lambda I \gamma$)	$E_{\gamma}(\text{keV})$ ($\lambda I \gamma$)	$E_{\gamma}(\text{keV})$ ($\lambda I \gamma$)	$E_{\gamma}(\text{keV})$ ($\lambda I \gamma$)	$E_{\gamma}(\text{keV})$ ($\lambda I \gamma$)
158Gd (cont.)					
994.5 (0.6)	1244.6 (0.5)	1834.8 (1.4)	5661.1 (1.9)	225.3 (<0.1)	4362.0 (3.8)
998.4 (8.1)	1249.4 (0.2)	1857.0 (2.9)	5668.7 (0.5)	248.1 (<0.1)	4507.0 (5.1)
1000.8 (1.3)	1256.0 (1.5)	1864.7 (1.6)	5676.7 (2.0)	253.3 (<0.1)	4599.0 (5.1)
1002.6 (0.7)	1259.8 (5.8)	1870.0 (0.8)	5687.9 (0.2)	264.9 (<0.1)	4737.0 (3.0)
1004.0 (6.1)	1263.5 (9.0)	1878.3 (1.2)	5714.3 (0.4)	275.7 (<0.1)	4784.0 (4.3)
1005.8 (0.6)	1264.5 (1.5)	1883.0 (1.2)	5721.7 (0.4)	278.1 (<0.1)	4811.0 (4.7)
1007.3 (1.5)	1270.3 (0.9)	1888.2 (3.1)	5783.8 (1.6)	283.3 (<0.1)	5241.0 (12.1)
1010.2 (3.0)	1274.9 (0.3)	1902.9 (0.5)	5816.2 (0.3)	295.8 (<0.1)	5280.0 (100.0)
1014.0 (0.3)	1278.9 (3.2)	1910.6 (0.9)	5845.4 (0.2)	301.2 (<0.1)	5321.0 (18.5)
1016.7 (0.3)	1283.9 (0.5)	1943.4 (2.6)	5853.1 (0.4)	302.8 (<0.1)	
1021.2 (0.2)	1289.6 (0.3)	1955.9 (4.2)	5891.8 (0.3)	315.9 (<0.1)	
1023.3 (0.1)	1294.5 (0.5)	1970.9 (2.3)	5903.2 (26.4)	317.6 (<0.1)	
1025.3 (0.8)	1296.7 (0.3)	1988.6 (1.2)	5912.5 (0.4)	318.1 (1.3)	
1028.3 (0.6)	1300.9 (3.3)	2014.6 (2.5)	5955.5 (0.8)	340.2 (3.3)	
1030.1 (0.2)	1302.2 (0.6)	2023.8 (1.7)	6006.4 (0.4)	351.1 (<0.1)	
1030.8 (<0.1)	1307.5 (0.7)	2040.6 (1.9)	6042.6 (0.6)	357.7 (<0.1)	
1034.5 (1.9)	1312.1 (0.8)	2059.2 (1.1)	6073.1 (0.2)	376.2 (<0.1)	
1035.9 (0.4)	1314.8 (0.5)	2180.3 (2.3)	6079.6 (0.2)	378.7 (<0.1)	
1037.2 (0.2)	1320.5 (0.4)	3700.2 (1.4)	6144.9 (1.0)	378.9 (0.8)	
1040.0 (0.2)	1323.4 (9.3)	3775.8 (0.9)	6420.1 (1.9)	420.5 (<0.1)	
1042.1 (0.7)	1327.1 (4.3)	3797.7 (1.4)	6671.6 (1.2)	427.2 (<0.1)	
1045.5 (0.2)	1329.5 (0.8)	3826.5 (1.1)	6750.0 (15.1)	428.0 (0.6)	
1047.4 (0.3)	1331.3 (1.0)	3921.3 (0.6)	6913.6 (0.8)	436.9 (<0.1)	
1049.6 (0.3)	1347.9 (1.3)	3972.1 (0.7)	6959.9 (0.1)	469.0 (<0.1)	
1051.7 (0.4)	1353.4 (0.8)	3989.2 (1.5)	7857.4 (<0.1)	559.0 (<0.1)	
1053.3 (0.4)	1360.9 (0.4)	4058.4 (1.2)		628.3 (<0.1)	
1056.3 (0.2)	1371.3 (1.8)	4090.6 (1.4)	159Gd		
1060.2 (0.3)	1372.9 (2.7)	4142.6 (0.9)	3647.0 (4.0)	850.7 (1.8)	
1061.6 (0.3)	1377.9 (1.2)	4187.3 (0.4)	3746.0 (3.8)	898.4 (1.4)	
1062.3 (0.8)	1381.1 (0.4)	4275.7 (0.9)	3785.0 (4.9)	1810.0 (4.2)	
1068.7 (<0.1)	1393.1 (0.8)	4289.7 (0.9)	3951.0 (4.4)	4504.0 (0.8)	
1071.4 (0.3)	1399.9 (0.1)	4304.5 (1.0)	3962.0 (2.4)	4529.3 (0.6)	
1072.6 (0.4)	1405.9 (1.3)	4310.3 (1.1)	4045.0 (10.9)	4567.6 (0.5)	
1074.1 (0.2)	1408.0 (0.4)	4344.8 (0.8)	4102.0 (6.0)	4580.2 (1.0)	
1077.1 (0.1)	1419.7 (0.6)	4402.4 (0.7)	4221.0 (4.7)	4616.6 (0.6)	
1079.0 (0.3)	1423.0 (0.5)	4488.4 (0.9)	4305.0 (5.1)	4657.1 (0.6)	
1080.9 (1.1)	1428.1 (0.5)	4500.8 (0.8)	4334.0 (3.3)	4682.9 (1.3)	
1082.3 (0.3)	1433.8 (0.9)	4525.5 (0.7)	4384.0 (4.4)	4756.9 (0.9)	
1088.9 (0.3)	1437.9 (4.4)	4585.3 (0.5)	4511.0 (1.6)	4793.3 (0.9)	
1090.6 (0.3)	1440.2 (0.9)	4649.2 (0.6)	4553.0 (2.0)	4811.8 (0.9)	
1091.7 (0.6)	1452.3 (0.3)	4665.8 (0.5)	4606.0 (2.7)	4989.7 (1.4)	
1094.3 (0.9)	1453.1 (0.5)	4673.3 (0.7)	4659.0 (3.8)	5011.9 (1.4)	
1097.0 (0.8)	1456.1 (0.7)	4690.0 (0.6)	4802.0 (26.7)	5030.2 (1.5)	
1100.3 (0.4)	1458.1 (0.6)	4708.6 (0.5)	4815.0 (5.8)	5049.3 (0.9)	
1105.6 (0.4)	1462.4 (0.9)	4736.4 (0.6)	4834.0 (4.2)	5067.1 (1.8)	
1107.6 (24.6)	1465.8 (0.5)	4741.7 (0.8)	4865.0 (11.8)	5099.6 (3.8)	
1108.2 (2.5)	1469.6 (0.5)	4766.0 (0.5)	4899.0 (2.2)	5134.6 (1.5)	
1111.8 (0.3)	1474.4 (0.5)	4787.3 (0.6)	4968.0 (3.1)	5203.0 (1.0)	
1116.5 (6.2)	1477.3 (0.4)	4795.7 (0.6)	4983.0 (4.7)	5226.3 (1.4)	
1119.2 (17.0)	1491.9 (0.7)	4870.3 (0.8)	5161.0 (3.6)	5248.6 (2.4)	
1126.0 (0.7)	1499.5 (0.6)	4876.9 (1.2)	5199.0 (5.3)	5286.5 (1.0)	
1129.2 (0.9)	1504.4 (0.4)	4891.6 (0.6)	5259.0 (2.9)	5321.5 (0.5)	
1130.7 (1.0)	1509.5 (0.8)	4908.2 (0.5)	5268.0 (5.1)	5462.4 (0.8)	
1134.6 (0.2)	1517.4 (3.7)	4925.2 (3.6)	5306.0 (4.2)	5518.0 (1.0)	
1136.1 (0.4)	1522.3 (0.5)	4939.5 (1.0)	5345.0 (6.7)	5522.5 (1.2)	
1139.6 (0.6)	1530.1 (1.6)	4951.1 (0.6)	5385.0 (19.1)	5608.1 (1.9)	
1141.4 (7.9)	1536.0 (0.3)	4955.6 (0.4)	5434.0 (35.6)	5711.8 (0.6)	
1145.2 (1.2)	1540.5 (0.4)	5002.5 (0.5)	5477.0 (4.4)	5754.2 (0.8)	
1146.8 (0.7)	1543.8 (0.3)	5027.5 (0.7)	5494.0 (100.0)	5777.2 (5.0)	
1149.7 (0.1)	1551.7 (0.3)	5041.1 (0.5)		5841.7 (2.1)	
1156.8 (0.4)	1555.0 (0.2)	5058.2 (1.7)	160Tb		
1159.2 (0.5)	1558.6 (0.4)	5092.4 (0.4)	33.1 (<0.1)	5860.0 (0.8)	
1161.2 (0.3)	1563.8 (1.0)	5106.9 (0.5)	41.9 (<0.1)	5891.5 (6.8)	
1166.8 (0.7)	1584.5 (0.5)	5113.6 (0.5)	59.6 (<0.1)	5953.7 (2.8)	
1172.4 (0.5)	1588.1 (1.8)	5142.4 (0.3)	63.7 (76.9)	5994.7 (3.3)	
1174.8 (0.2)	1595.5 (0.2)	5154.9 (1.0)	64.0 (<0.1)	6138.8 (3.5)	
1177.8 (0.5)	1635.6 (0.6)	5178.7 (1.8)	64.1 (<0.1)	6218.2 (5.1)	
1180.3 (3.2)	1639.9 (0.9)	5185.7 (0.5)	75.1 (100.0)	6240.0 (<0.1)	
1184.0 (13.5)	1644.8 (1.0)	5238.6 (1.2)		6267.0 (1.9)	
1186.0 (23.3)	1651.5 (0.5)	5250.2 (1.5)		6310.0 (2.3)	
1187.1 (20.6)	1657.9 (0.7)	5265.1 (0.3)			
1195.3 (0.3)	1663.7 (2.1)	5280.4 (0.5)		161Gd	
1197.1 (0.4)	1674.2 (1.0)	5293.1 (0.2)		394.7 (91.5)	
1204.7 (0.4)	1683.2 (0.5)	5306.2 (0.7)		469.0 (91.5)	
1207.1 (0.3)	1691.6 (1.3)	5336.1 (0.5)		804.3 (16.8)	
1209.0 (0.2)	1708.2 (0.8)	5342.6 (0.4)		1273.0 (21.3)	
1215.4 (0.5)	1712.7 (0.8)	5370.4 (0.3)		1338.0 (11.3)	
1218.6 (0.7)	1723.9 (0.7)	5403.2 (2.0)		1490.0 (29.8)	
1219.9 (3.4)	1737.6 (0.9)	5436.4 (1.1)		3712.0 (15.1)	
1222.6 (0.3)	1753.4 (0.4)	5486.7 (0.3)		3787.0 (23.4)	
1226.4 (0.4)	1759.2 (0.4)	5504.1 (0.3)		3832.0 (13.8)	
1229.0 (0.4)	1774.8 (1.9)	5542.6 (1.7)		3884.0 (10.9)	
1233.7 (0.7)	1782.0 (1.4)	5567.6 (0.1)		4090.0 (13.0)	
1236.1 (0.6)	1785.9 (1.2)	5582.1 (2.6)		4112.0 (6.0)	
1237.5 (3.0)	1795.4 (1.2)	5592.7 (1.5)		4145.0 (7.4)	
1241.2 (0.3)	1800.4 (0.9)	5609.8 (1.2)		4227.0 (19.4)	
	1815.1 (1.3)	5654.2 (0.8)		4255.0 (21.3)	
				4298.0 (34.0)	
				4324.0 (20.9)	

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_{\gamma}(\text{keV})$ (γ_{17})	$E_{\gamma}(\text{keV})$ (γ_{17})	$E_{\gamma}(\text{keV})$ (γ_{17})	$E_{\gamma}(\text{keV})$ (γ_{17})	$E_{\gamma}(\text{keV})$ (γ_{17})	$E_{\gamma}(\text{keV})$ (γ_{17})	$E_{\gamma}(\text{keV})$ (γ_{17})	$E_{\gamma}(\text{keV})$ (γ_{17})
162Dy (cont.)							
318.5 (0.1)	1373.1 (4.1)	170.9 (0.1)	441.1 (5.7)	5121.2 (0.8)	186.3 (0.1)		
319.5 (2.4)	1491.7 (0.3)	171.3 (0.6)	442.3 (2.6)	5160.0 (0.3)	218.1 (0.1)		
321.0 (2.1)	1563.4 (0.8)	172.4 (0.4)	444.4 (0.7)	5187.5 (0.6)	225.8 (0.1)		
329.2 (0.6)	1574.5 (0.3)	177.7 (4.6)	449.1 (0.4)	5217.2 (9.0)	232.8 (0.1)		
330.0 (0.1)	1596.5 (0.3)	177.4 (0.1)	455.6 (0.2)	5335.2 (1.1)	237.0 (0.4)		
333.4 (13.8)	1623.3 (0.6)	188.0 (0.1)	459.8 (0.7)	5385.2 (0.7)	241.8 (0.1)		
341.4 (0.1)	1637.3 (0.1)	188.6 (0.1)	461.0 (0.8)	5410.9 (0.7)	271.7 (9.9)		
347.3 (0.8)	1671.0 (0.7)	190.2 (0.1)	465.6 (1.0)	5449.9 (9.9)	271.5 (0.6)		
353.0 (0.1)	1682.6 (0.3)	195.2 (0.1)	472.4 (1.0)	5503.4 (1.0)	275.3 (0.2)		
354.4 (0.3)	1720.2 (0.3)	200.2 (0.1)	480.7 (1.6)	5540.3 (1.0)	286.3 (0.1)		
361.5 (0.2)	1750.4 (0.2)	211.1 (6.3)	484.5 (9.5)	5580.2 (5.0)	297.4 (4.5)		
363.5 (0.2)	1750.8 (0.3)	211.1 (0.3)	489.3 (1.0)				
372.7 (0.2)	1807.0 (0.1)	222.5 (0.3)	489.4 (0.3)				
380.7 (0.1)	1829.0 (0.3)	223.0 (0.1)	489.4 (0.3)				
386.2 (0.5)	1844.7 (0.4)	223.0 (0.2)	501.5 (4.4)				
392.8 (0.1)	1854.3 (0.3)	234.8 (0.1)	512.1 (3.7)				
407.8 (0.8)	1861.5 (0.6)	243.0 (0.1)	515.1 (0.1)				
415.5 (0.3)	1869.9 (0.8)	245.0 (0.1)	527.1 (0.7)				
418.2 (0.3)	1876.9 (0.1)	245.0 (4.9)	533.1 (1.2)				
427.7 (0.2)	1903.4 (0.3)	250.9 (0.3)	533.6 (1.2)				
431.4 (0.1)	1935.7 (0.3)	253.5 (0.3)	545.3 (1.0)				
436.3 (0.1)	1956.1 (0.3)	258.5 (0.3)	545.3 (1.0)				
451.8 (0.5)	1982.9 (0.1)	260.3 (4.5)	559.6 (3.8)				
459.0 (0.2)	2022.4 (0.2)	263.1 (0.2)	565.0 (0.2)				
463.2 (0.2)	2042.6 (0.4)	265.1 (2.2)	570.7 (1.1)				
469.4 (0.3)	2054.3 (0.3)	265.5 (4.5)	573.5 (0.1)				
474.9 (0.8)	2061.0 (0.7)	266.0 (5.5)	584.4 (7.1)				
477.4 (0.3)	2068.3 (0.2)	266.3 (5.5)	608.4 (0.6)				
484.8 (0.4)	2095.9 (0.1)	268.8 (1.4)	614.5 (0.6)				
488.7 (0.4)	2117.1 (0.9)	269.4 (6.9)	618.6 (0.6)				
494.0 (0.2)	2159.7 (0.1)	283.4 (1.6)	621.3 (1.0)				
512.3 (0.2)	2204.5 (0.1)	285.5 (5.6)	627.2 (1.0)				
522.8 (0.3)	2220.6 (0.2)	291.5 (0.2)	630.1 (2.8)				
529.1 (2.1)	2241.0 (0.1)	292.5 (0.1)	633.8 (1.8)				
532.9 (0.5)	2282.3 (0.2)	292.9 (0.1)	633.7 (3.3)				
538.1 (0.4)	2306.9 (0.1)	302.0 (0.1)	637.4 (0.6)				
543.3 (1.2)	2338.3 (0.2)	305.2 (0.2)	656.6 (1.0)				
551.1 (0.4)	2361.3 (0.3)	306.2 (5.8)	663.4 (1.2)				
556.0 (1.6)	2453.5 (0.3)	311.4 (0.7)	668.8 (4.8)				
560.4 (1.3)	2463.1 (0.7)	313.0 (0.1)	672.2 (1.2)				
562.9 (0.3)	2464.2 (0.3)	314.8 (7.0)	704.7 (3.3)				
567.9 (4.1)	2486.1 (0.2)	316.3 (2.7)	707.7 (3.3)				
582.1 (1.6)	2527.9 (0.1)	318.1 (4.5)	711.5 (2.4)				
589.1 (0.3)	2530.9 (0.6)	320.9 (1.1)	733.6 (1.2)				
591.5 (0.3)	2533.1 (0.3)	322.9 (0.3)	740.0 (2.6)				
611.1 (0.2)	2533.1 (0.3)	323.5 (1.1)	746.2 (3.3)				
618.1 (0.6)	2533.1 (0.3)	331.7 (13.4)	768.7 (1.9)				
622.2 (0.2)	2533.1 (0.3)	331.7 (0.2)	771.1 (1.4)				
624.1 (0.6)	2533.1 (0.3)	331.7 (0.2)	781.0 (1.9)				
634.7 (2.7)	2533.1 (0.3)	334.4 (5.9)	781.1 (1.4)				
647.7 (1.3)	2533.1 (0.3)	334.4 (6.0)	792.0 (1.0)				
671.4 (1.3)	2533.1 (0.3)	334.4 (6.0)	810.0 (4.8)				
678.2 (1.0)	2533.1 (0.3)	334.4 (6.0)	820.8 (7.1)				
687.4 (1.3)	2533.1 (0.3)	334.4 (6.0)	833.6 (4.8)				
703.2 (1.0)	2533.1 (0.3)	334.4 (6.0)	845.2 (8.6)				
713.5 (1.0)	2533.1 (0.3)	334.4 (6.0)	868.3 (3.8)				
728.7 (0.5)	2533.1 (0.3)	334.4 (6.0)	896.8 (3.8)				
731.7 (0.3)	2533.1 (0.3)	334.4 (6.0)	917.0 (1.9)				
747.9 (0.3)	2533.1 (0.3)	334.4 (6.0)	994.2 (2.4)				
751.7 (0.3)	2533.1 (0.3)	334.4 (6.0)	1002.5 (5.2)				
768.8 (0.3)	2533.1 (0.3)	334.4 (6.0)	1026.2 (1.9)				
778.0 (0.3)	2533.1 (0.3)	334.4 (6.0)	1044.3 (1.4)				
780.1 (28.2)	2533.1 (0.3)	334.4 (6.0)	1080.0 (10.8)				
807.5 (46.2)	2533.1 (0.3)	334.4 (6.0)	1142.0 (11.4)				
842.5 (3.1)	2533.1 (0.3)	334.4 (6.0)	1225.0 (6.2)				
850.7 (1.8)	2533.1 (0.3)	334.4 (6.0)	1409.3 (4.6)				
863.7 (6.6)	2533.1 (0.3)	334.4 (6.0)	1403.5 (2.6)				
888.2 (43.6)	2533.1 (0.3)	334.4 (6.0)	1403.5 (2.6)				
901.3 (2.8)	2533.1 (0.3)	334.4 (6.0)	1403.5 (2.6)				
912.0 (2.8)	2533.1 (0.3)	334.4 (6.0)	1403.5 (2.6)				
917.1 (17.6)	2533.1 (0.3)	334.4 (6.0)	1403.5 (2.6)				
937.0 (2.6)	2533.1 (0.3)	334.4 (6.0)	1403.5 (2.6)				
944.6 (11.3)	2533.1 (0.3)	334.4 (6.0)	1403.5 (2.6)				
970.1 (15.4)	2533.1 (0.3)	334.4 (6.0)	1403.5 (2.6)				
980.2 (15.4)	2533.1 (0.3)	334.4 (6.0)	1403.5 (2.6)				
1092.5 (1.3)	2533.1 (0.3)	334.4 (6.0)	1403.5 (2.6)				
1108.0 (1.3)	2533.1 (0.3)	334.4 (6.0)	1403.5 (2.6)				
1125.8 (1.3)	2533.1 (0.3)	334.4 (6.0)	1403.5 (2.6)				
1130.1 (17.4)	2533.1 (0.3)	334.4 (6.0)	1403.5 (2.6)				
1141.0 (1.3)	2533.1 (0.3)	334.4 (6.0)	1403.5 (2.6)				
1186.2 (9.0)	2533.1 (0.3)	334.4 (6.0)	1403.5 (2.6)				
1195.6 (1.3)	2533.1 (0.3)	334.4 (6.0)	1403.5 (2.6)				
1205.6 (2.4)	2533.1 (0.3)	334.4 (6.0)	1403.5 (2.6)				
1220.0 (2.4)	2533.1 (0.3)	334.4 (6.0)	1403.5 (2.6)				
1253.3 (2.4)	2533.1 (0.3)	334.4 (6.0)	1403.5 (2.6)				
1276.9 (2.4)	2533.1 (0.3)	334.4 (6.0)	1403.5 (2.6)				
1308.6 (2.4)	2533.1 (0.3)	334.4 (6.0)	1403.5 (2.6)				

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_\gamma(\text{keV})$ ($\%I_\gamma$)	$E_\gamma(\text{keV})$ ($\%I_\gamma$)	$E_\gamma(\text{keV})$ ($\%I_\gamma$)	$E_\gamma(\text{keV})$ ($\%I_\gamma$)	$E_\gamma(\text{keV})$ ($\%I_\gamma$)	$E_\gamma(\text{keV})$ ($\%I_\gamma$)
165Dy (cont.)					
3276.0 (1.3)	136.7 (100.0)	5549.5 (0.2)	531.5 (48.9)	92.6 (<0.1)	724.1 (0.2)
3349.0 (0.6)	137.5 (<0.1)	5550.0 (<0.1)	544.9 (8.2)	99.0 (1.2)	730.6 (6.8)
3417.0 (1.4)	140.5 (0.3)	5555.9 (0.1)	554.8 (3.2)	99.3 (0.9)	737.8 (0.7)
3445.0 (2.5)	141.6 (0.5)	5571.4 (<0.1)	573.8 (20.1)	112.1 (<0.1)	741.3 (3.9)
3478.0 (0.5)	146.8 (0.3)	5574.8 (0.1)	583.8 (2.7)	118.4 (0.2)	748.3 (0.8)
3490.0 (0.5)	149.3 (15.5)	5580.2 (0.2)	591.8 (6.3)	122.8 (<0.1)	790.1 (0.4)
3511.0 (0.4)	152.5 (<0.1)	5584.4 (0.2)	593.8 (11.2)	130.7 (<0.1)	798.9 (1.3)
3528.0 (1.3)	156.5 (<0.1)	5587.6 (<0.1)	603.8 (5.3)	137.5 (<0.1)	813.3 (0.9)
3534.0 (1.3)	157.3 (0.8)	5604.4 (0.4)	613.5 (2.0)	146.3 (<0.1)	815.9 (27.1)
3555.0 (0.7)	158.7 (0.2)	5608.0 (<0.1)	617.1 (2.3)	149.7 (<0.1)	821.1 (4.3)
3588.0 (0.2)	160.6 (0.1)	5608.3 (<0.1)	645.7 (4.2)	156.9 (<0.1)	823.5 (1.0)
3610.0 (0.7)	162.5 (0.2)	5614.5 (<0.1)	661.2 (1.2)	166.4 (<0.1)	825.8 (0.6)
3651.0 (0.3)	171.7 (0.1)	5637.7 (0.1)	668.3 (0.4)	169.0 (<0.1)	829.9 (2.5)
3708.0 (0.6)	176.0 (0.3)	5644.6 (<0.1)	691.8 (2.4)	173.6 (<0.1)	832.9 (0.5)
3749.0 (0.8)	179.0 (0.9)	5650.5 (0.4)	694.9 (0.5)	184.3 (21.6)	841.3 (<0.1)
3772.0 (0.5)	179.9 (0.9)	5680.0 (<0.1)	777.0 (0.8)	193.6 (<0.1)	853.5 (4.7)
3821.0 (0.5)	181.1 (4.6)	5684.2 (0.7)	794.0 (2.0)	193.9 (<0.1)	862.5 (0.7)
3841.0 (0.7)	186.6 (1.0)	5694.9 (0.1)	810.5 (17.4)	198.2 (14.4)	884.4 (0.3)
3885.2 (0.9)	189.9 (<0.1)	5699.6 (0.1)	840.8 (1.9)	204.8 (<0.1)	889.3 (<0.1)
3947.0 (0.5)	193.1 (0.7)	5760.9 (0.8)	870.5 (1.2)	211.4 (<0.1)	897.7 (0.4)
3960.0 (0.6)	194.5 (0.5)	5771.8 (0.5)	878.5 (3.3)	217.4 (1.1)	914.9 (4.4)
3987.0 (0.2)	197.1 (0.1)	5778.5 (<0.1)	898.5 (2.4)	221.8 (0.1)	919.3 (0.1)
4018.0 (0.2)	197.3 (1.2)	5812.4 (2.8)	909.4 (1.2)	229.4 (<0.1)	928.8 (0.9)
4069.0 (0.4)	199.7 (2.9)	5826.2 (<0.1)	924.6 (1.8)	242.8 (<0.1)	952.5 (0.2)
4081.0 (0.5)	207.0 (0.1)	5870.6 (1.1)	940.8 (0.9)	250.9 (<0.1)	996.3 (<0.1)
4123.2 (2.1)	208.3 (0.2)	5894.3 (<0.1)	962.7 (2.4)	255.9 (0.3)	999.7 (0.6)
4152.0 (0.5)	208.9 (0.1)	5903.7 (<0.1)	971.0 (3.3)	259.1 (<0.1)	1012.5 (0.8)
4246.0 (0.2)	210.3 (1.1)	5912.4 (<0.1)	989.1 (0.9)	269.2 (0.1)	1025.6 (0.6)
4266.0 (0.2)	212.3 (0.1)	5978.9 (0.4)	995.2 (1.2)	272.9 (<0.1)	1027.0 (<0.1)
4314.0 (0.2)	216.2 (<0.1)	5981.9 (0.4)	1011.4 (4.0)	278.5 (<0.1)	1068.1 (0.2)
4462.0 (0.3)	221.2 (14.2)	6044.6 (0.1)	1019.4 (5.5)	284.6 (5.9)	1105.0 (0.2)
4547.0 (0.2)	227.9 (<0.1)	6051.8 (0.9)	1030.1 (1.1)	293.5 (<0.1)	1107.5 (0.7)
4612.0 (1.4)	229.0 (0.2)	6061.8 (<0.1)	1037.8 (8.3)	294.4 (<0.1)	1137.2 (0.1)
5109.0 (1.2)	232.0 (0.9)	6071.6 (0.2)	1058.5 (2.4)	297.4 (<0.1)	1146.9 (0.6)
5142.6 (3.2)	239.1 (15.3)	6160.5 (<0.1)	1111.3 (0.9)	303.8 (<0.1)	1159.3 (0.2)
5175.0 (1.1)	245.0 (3.8)	6188.3 (<0.1)	1146.7 (4.5)	315.4 (<0.1)	1167.4 (1.1)
5556.4 (5.5)	265.1 (0.7)		1223.4 (3.4)	335.7 (<0.1)	1173.9 (<0.1)
5606.7 (6.8)	279.8 (0.1)		1273.0 (4.7)	345.0 (<0.1)	1196.6 (0.5)
	287.2 (0.6)	167Er			
	289.1 (8.4)	57.1 (8.6)	1280.5 (3.0)	348.5 (<0.1)	1229.5 (0.4)
166Ho					
9.4 (<0.1)	290.6 (6.2)	73.8 (1.9)	1294.5 (3.0)	352.8 (<0.1)	1259.9 (<0.1)
19.8 (14.5)	297.9 (1.4)	79.3 (2.6)	1298.0 (3.2)	362.5 (<0.1)	1271.5 (0.2)
28.2 (<0.1)	331.9 (1.0)	83.5 (0.8)	1305.2 (0.9)	371.2 (0.1)	1277.3 (1.8)
38.5 (1.1)	333.6 (5.8)	98.6 (0.1)	1341.5 (3.5)	379.5 (0.2)	1310.1 (1.0)
48.0 (0.6)	343.5 (1.4)	98.8 (0.1)	1353.5 (5.9)	380.2 (<0.1)	1323.9 (1.2)
51.8 (0.8)	347.2 (0.7)	103.1 (0.1)	1373.3 (2.0)	387.3 (<0.1)	1331.2 (0.9)
54.2 (9.1)	357.0 (1.1)	116.7 (0.1)	1381.5 (5.8)	396.5 (0.4)	1350.9 (1.3)
57.2 (0.6)	367.5 (0.3)	131.7 (2.1)	1384.4 (1.6)	416.4 (0.1)	1351.8 (1.3)
57.5 (1.2)	371.8 (10.9)	136.5 (<0.1)	1432.9 (1.3)	422.3 (0.8)	1354.5 (0.4)
66.1 (0.7)	372.8 (0.2)	148.4 (2.6)	1437.7 (2.4)	436.5 (<0.1)	1358.8 (<0.1)
69.8 (10.2)	382.8 (0.2)	159.0 (0.4)	1441.5 (2.7)	440.7 (<0.1)	1392.4 (0.8)
71.0 (0.7)	391.9 (4.1)	159.1 (0.4)	1453.9 (5.9)	446.1 (<0.1)	1413.5 (0.4)
74.3 (0.3)	401.6 (7.6)	159.3 (0.4)	1485.2 (1.9)	447.5 (1.5)	1433.5 (<0.1)
75.8 (0.3)	426.0 (13.5)	160.4 (0.8)	1503.0 (1.7)	497.8 (0.2)	1473.6 (<0.1)
76.0 (0.3)	467.3 (1.1)	177.9 (<0.1)	1523.8 (2.7)	499.3 (<0.1)	1556.2 (0.2)
76.5 (1.2)	509.0 (2.5)	207.8 (100.0)	1556.9 (1.8)	501.6 (<0.1)	1576.9 (0.1)
78.9 (0.2)	512.7 (2.9)	209.0 (0.1)	1708.5 (2.3)	504.9 (<0.1)	1650.2 (0.5)
82.5 (3.5)	4988.0 (6.6)	213.3 (0.1)	4330.0 (1.5)	508.4 (<0.1)	1657.7 (0.1)
83.0 (0.2)	5011.1 (0.4)	237.9 (1.2)	4339.0 (0.9)	515.3 (0.2)	1768.4 (<0.1)
84.5 (0.5)	5026.5 (0.1)	275.2 (0.7)	4369.0 (1.4)	516.0 (<0.1)	1834.7 (1.0)
86.4 (0.4)	5036.5 (0.1)	277.6 (0.7)	4486.0 (2.8)	521.4 (0.1)	1848.2 (<0.1)
87.2 (0.1)	5050.8 (0.3)	278.0 (0.4)	4513.0 (0.5)	533.3 (0.2)	1915.0 (<0.1)
87.6 (4.5)	5081.9 (1.1)	315.6 (0.3)	4569.0 (1.1)	539.7 (<0.1)	5681.2 (10.9)
88.6 (0.1)	5105.9 (0.3)	317.3 (0.4)	4625.0 (0.6)	543.8 (1.1)	5773.0 (14.6)
89.6 (0.4)	5123.8 (0.7)	321.3 (6.7)	4644.0 (0.5)	546.7 (0.6)	5786.8 (4.7)
94.5 (0.1)	5128.6 (0.7)	341.7 (2.9)	4682.0 (3.7)	556.2 (0.2)	5857.0 (19.3)
94.6 (0.7)	5146.2 (0.1)	346.5 (43.9)	4719.0 (5.3)	557.0 (<0.1)	5865.1 (9.7)
95.2 (0.9)	5151.8 (0.2)	351.3 (0.7)	4775.0 (4.5)	559.6 (1.2)	5868.9 (4.5)
95.8 (0.3)	5182.0 (1.2)	386.5 (0.9)	4789.0 (2.4)	563.5 (<0.1)	5878.0 (51.6)
96.0 (0.4)	5210.2 (1.2)	394.6 (5.0)	4795.0 (0.9)	568.9 (0.7)	5884.8 (4.4)
98.2 (0.1)	5214.2 (1.2)	399.0 (1.4)	4872.0 (1.2)	582.8 (0.3)	5934.1 (3.5)
98.9 (2.0)	5233.6 (0.1)	403.1 (1.0)	4891.0 (0.6)	591.0 (<0.1)	5942.5 (14.7)
103.1 (0.2)	5257.9 (<0.1)	406.7 (0.4)	5053.0 (2.7)	601.8 (0.4)	5950.1 (12.7)
105.5 (1.9)	5281.9 (0.1)	417.0 (2.6)	5210.0 (8.7)	616.7 (0.2)	6034.6 (6.3)
108.2 (3.1)	5338.5 (0.5)	426.3 (1.0)	5259.0 (2.5)	620.1 (0.2)	6043.4 (2.5)
111.3 (2.3)	5352.7 (0.3)	430.0 (1.9)	5351.0 (2.4)	631.7 (4.3)	6051.7 (27.5)
113.6 (0.5)	5360.9 (0.4)	444.0 (1.1)	5634.0 (0.6)	638.8 (0.5)	6062.5 (14.2)
116.8 (57.5)	5375.4 (<0.1)	455.3 (1.1)	5670.0 (0.4)	644.3 (0.2)	6078.0 (1.0)
117.3 (0.7)	5411.4 (0.3)	460.5 (0.4)	5683.0 (1.2)	645.6 (0.4)	6115.0 (5.6)
122.6 (0.3)	5428.2 (1.3)	462.6 (0.6)	5904.0 (0.6)	658.8 (<0.1)	617.3 (37.3)
123.4 (0.4)	5436.7 (<0.1)	471.4 (1.1)	6171.2 (16.5)	662.2 (<0.1)	6154.5 (2.0)
126.2 (3.9)	5459.0 (<0.1)	474.0 (6.3)	6228.2 (71.9)	673.5 (0.3)	6196.9 (13.7)
127.0 (<0.1)	5471.2 (<0.1)	487.9 (6.3)		689.1 (<0.1)	6201.7 (10.3)
131.8 (0.5)	5473.7 (0.1)	494.4 (8.1)		699.9 (<0.1)	6228.8 (100.0)
134.0 (<0.1)	5501.2 (<0.1)	495.7 (4.3)		702.8 (0.1)	6278.7 (2.7)
134.3 (<0.1)	5506.5 (<0.1)	498.6 (10.6)		713.2 (0.4)	6340.1 (2.0)
	5516.7 (<0.1)	520.6 (1.7)		715.2 (1.0)	6358.8 (2.4)
	5523.5 (0.8)	528.7 (7.9)		720.2 (1.5)	6367.0 (16.6)

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	
168Er (cont.)						
6494.6 (8.4)	110.9	647.3	47.7 (0.2)	320.0 (0.4)	4771.0 (<0.1)	
6577.9 (22.7)	129.2	655.4	54.7 (0.8)	326.6 (0.3)	4801.0 (<0.1)	
6653.4 (<0.1)	133.5	660.2	64.0 (1.0)	329.5 (0.3)	4918.0 (<0.1)	
6677.0 (65.4)	144.6	667.9	66.1 (3.6)	332.5 (0.8)	4950.0 (<0.1)	
6775.8 (1.3)	153.7	670.3	68.6 (17.9)	335.0 (0.3)	4982.0 (<0.1)	
6875.8 (2.4)	154.0	674.3	70.0 (1.3)	336.8 (0.2)	5050.0 (<0.1)	
6949.8 (4.8)	156.9	675.9	70.5 (0.2)	341.7 (1.0)	5077.0 (2.3)	
7222.8 (2.2)	160.0	678.7	75.8 (7.9)	342.8 (1.1)	5122.0 (2.1)	
7507.3 (4.8)	161.7	690.9	77.9 (0.2)	343.5 (2.7)	5148.0 (<0.1)	
7691.3 (1.8)	165.0	703.4	80.9 (0.5)	353.0 (8.2)	5159.0 (7.4)	
	167.0	707.8	85.3 (0.4)	355.5 (0.9)	5213.0 (<0.1)	
	171.2	720.0	87.5 (<0.1)	359.1 (1.6)	5326.0 (1.5)	
169Er						
27.6 (26.4)	179.4	726.4	88.9 (0.4)	360.8 (2.7)	5360.0 (8.3)	
64.6 (<0.1)	185.9	739.0	89.9 (0.5)	367.5 (1.5)	5382.0 (0.7)	
74.6 (<0.1)	191.2	741.5	90.2 (0.3)	368.3 (1.5)	5398.0 (2.0)	
84.9 (<0.1)	197.5	752.2	92.7 (0.9)	370.7 (2.2)	5416.0 (3.4)	
108.4 (<0.1)	198.3	756.3	94.5 (0.2)	372.7 (2.2)	5428.0 (2.0)	
149.6 (<0.1)	198.8	758.9	98.6 (0.7)	377.8 (0.4)	5447.0 (0.4)	
151.5 (<0.1)	222.7	760.9	99.7 (0.5)	384.2 (22.8)	5453.0 (0.4)	
159.6 (<0.1)	225.9	761.9	105.2 (6.0)	388.3 (1.1)	5518.0 (1.3)	
167.4 (<0.1)	227.9	764.5	108.0 (0.9)	393.2 (0.4)	5684.0 (0.7)	
292.6 (<0.1)	234.9	767.3	109.8 (0.3)	397.8 (1.1)	5730.0 (1.5)	
429.9 (100.0)	239.5	777.3	111.0 (2.9)	400.2 (7.6)	5737.0 (9.6)	
470.2 (<0.1)	243.1	784.9	112.5 (0.4)	408.3 (3.3)	5771.0 (<0.1)	
497.5 (<0.1)	244.5	805.5	114.5 (35.9)	411.5 (29.3)	5808.0 (0.5)	
507.1 (<0.1)	258.3	812.4	115.0 (0.4)	415.9 (1.0)	5859.0 (2.5)	
524.8 (<0.1)	272.1	824.7	115.4 (0.2)	417.8 (0.7)	5900.0 (3.5)	
534.7 (<0.1)	278.6	827.2	119.3 (0.2)	424.7 (6.5)	5910.0 (3.4)	
545.0 (5.1)	284.7	831.7	124.9 (0.3)	427.0 (2.2)	5945.0 (8.5)	
562.0 (<0.1)	287.6	845.1	130.0 (8.7)	429.1 (3.8)	6003.5 (<0.1)	
579.3 (<0.1)	291.2	889.9	136.2 (0.1)	432.8 (1.6)	6356.0 (2.1)	
589.6 (<0.1)	297.4	908.8	137.5 (0.1)	434.6 (1.1)	6376.0 (0.9)	
599.2 (<0.1)	315.2	926.5	138.2 (0.1)	442.1 (4.3)	6389.0 (8.7)	
616.8 (<0.1)	318.6	960.6	144.5 (54.3)	446.4 (26.1)	6444.6 (2.2)	
622.8 (<0.1)	326.0	999.9	144.9 (0.4)	454.3 (4.3)	6556.4 (5.3)	
640.0 (<0.1)	357.7	1018.0	149.7 (64.1)	456.0 (9.8)	6594.0 (0.2)	
650.0 (<0.1)	359.5	1023.7	153.7 (1.0)	457.0 (6.0)		
665.1 (<0.1)	369.2	1064.7	156.0 (1.0)	468.8 (5.4)	171Er	
695.0 (<0.1)	378.6	1069.6	160.7 (0.1)	473.5 (5.4)	177.8 (1.5)	
704.9 (<0.1)	383.6	1086.4	161.7 (2.6)	477.4 (5.4)	197.9 (100.0)	
714.5 (<0.1)	389.5	1105.5	165.7 (35.9)	481.7 (3.3)	279.1 (10.4)	
732.2 (<0.1)	404.0	1131.3	169.5 (0.5)	485.3 (3.3)	359.0 (4.7)	
760.7 (10.2)	417.5	1151.4	171.8 (4.3)	496.7 (10.9)	501.7 (9.7)	
779.4 (<0.1)	419.4	1163.1	175.0 (0.3)	499.5 (13.0)	538.2 (2.5)	
785.4 (<0.1)	423.4	1183.6	176.5 (2.9)	505.7 (7.6)	556.1 (4.1)	
787.9 (30.0)	425.8	1197.8	181.0 (40.2)	506.2 (7.6)	562.8 (6.3)	
795.6 (<0.1)	443.2	1200.9	183.2 (0.1)	512.2 (26.1)	663.4 (4.1)	
798.6 (<0.1)	443.7	1207.5	185.9 (0.1)	523.5 (6.5)	706.9 (11.6)	
853.2 (<0.1)	444.7	1209.8	188.6 (0.1)	532.5 (7.6)	715.2 (3.1)	
968.4 (<0.1)	445.2	1221.1	188.8 (0.1)	535.7 (8.7)	794.0 (2.9)	
989.6 (<0.1)	451.2	1232.6	192.6 (0.1)	537.9 (8.7)	870.5 (1.9)	
1002.1 (<0.1)	456.6	1246.5	195.4 (0.1)	552.6 (14.1)	894.0 (0.9)	
1019.9 (<0.1)	457.4	1263.1	197.3 (0.3)	562.5 (9.8)	904.0 (14.2)	
1029.8 (<0.1)	468.4	1295.6	198.5 (8.0)	565.4 (22.8)	941.5 (3.8)	
1042.5 (<0.1)	470.6	1325.5	201.1 (0.1)	569.5 (15.2)	1021.7 (2.2)	
1052.6 (37.2)	474.3	1373.6	204.5 (100.0)	573.0 (5.4)	1140.3 (1.8)	
1069.8 (<0.1)	478.4	1391.8	207.6 (0.2)	581.7 (4.3)	1175.4 (2.1)	
1094.5 (<0.1)	480.1	1410.6	209.5 (0.1)	585.0 (4.3)	1220.3 (2.5)	
1117.8 (<0.1)	482.9	1432.5	212.5 (0.1)	590.1 (21.7)	1235.0 (3.5)	
1295.5 (5.8)	485.7	1445.2	214.6 (0.3)	604.0 (18.5)	1297.8 (2.6)	
1312.1 (<0.1)	497.7	1467.3	218.4 (0.2)	611.9 (10.9)	1434.9 (1.7)	
1322.5 (<0.1)	498.8	1497.6	219.7 (30.4)	619.4 (2.7)	2104.0 (4.7)	
1355.6 (<0.1)	505.9	1505.9	231.1 (0.7)	622.6 (2.7)	2407.0 (1.7)	
1387.0 (<0.1)	530.3	1530.5	231.9 (5.3)	632.0 (8.7)	2420.0 (1.5)	
4616.5 (<0.1)	531.0	1594.5	235.2 (11.3)	638.2 (18.5)	2448.0 (1.6)	
4887.1 (<0.1)	542.8	1689.2	237.3 (42.4)	638.9 (12.0)	2468.0 (1.0)	
4908.8 (<0.1)	545.5	5169.5	242.6 (12.2)	640.2 (10.9)	2515.0 (1.5)	
4922.4 (<0.1)	547.4	5247.4	245.9 (1.0)	650.0 (16.3)	2523.0 (1.3)	
5142.9 (<0.1)	548.5	5281.1	248.2 (0.1)	658.8 (18.5)	2545.0 (1.3)	
5289.0 (<0.1)	553.3	5312.0	250.1 (0.4)	663.4 (6.5)	2564.0 (1.7)	
5441.0 (<0.1)	560.4	5334.4	256.5 (1.0)	667.2 (5.4)	2596.0 (2.0)	
5938.2 (<0.1)	563.2	5388.3	257.3 (0.3)	669.5 (5.4)	2627.0 (0.7)	
6002.4 (<0.1)	569.8	5468.3	260.4 (1.0)	679.8 (6.5)	2645.0 (1.1)	
	572.7	5511.9	261.8 (0.3)	692.4 (3.3)	2655.0 (0.7)	
169Yb						
12.3	576.4	5517.2	264.0 (0.4)	704.2 (13.0)	2747.0 (0.9)	
24.2	585.1	5595.6	266.9 (1.6)	707.3 (4.3)	2761.0 (0.9)	
62.7	588.5	5832.7	268.6 (1.6)	710.0 (9.8)	2797.0 (1.0)	
70.9	590.7	6017.7	269.3 (0.8)	720.4 (14.1)	2818.0 (1.6)	
75.0	607.7	6053.4	270.3 (0.4)	724.1 (8.7)	2825.0 (0.8)	
87.4	622.1	6146.8	275.6 (0.3)	814.1 (5.4)	2837.0 (0.8)	
89.8	623.0	6207.1	277.9 (0.2)	819.9 (4.3)	2854.0 (1.0)	
90.8	627.9	6779.8	281.9 (0.5)	851.5 (8.7)	2871.0 (0.8)	
92.0	632.4	6842.5	288.2 (1.6)	867.9 (4.3)	2887.0 (0.8)	
104.3	633.1		289.2 (0.8)	4639.0 (<0.1)	2898.0 (0.8)	
108.0	634.7		300.7 (0.7)	4650.0 (<0.1)	2913.0 (0.8)	
	635.4		303.7 (2.7)	4733.0 (<0.1)	2940.0 (<0.1)	
	636.1		311.0 (28.3)	4748.0 (<0.1)	2957.0 (1.2)	

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_{\gamma}(\text{keV})$ ($\lambda\gamma$)	$E_{\gamma}(\text{keV})$ ($\lambda\gamma$)	$E_{\gamma}(\text{keV})$ ($\lambda\gamma$)	$E_{\gamma}(\text{keV})$ ($\lambda\gamma$)	$E_{\gamma}(\text{keV})$ ($\lambda\gamma$)	$E_{\gamma}(\text{keV})$ ($\lambda\gamma$)	
171Er (cont.)			173Yb			
3018.0 (1.0)	3727.0 (2.3)	861.7	6413.5	736.3 (0.6)	175Yb	
3036.0 (1.9)	3753.0 (2.3)	911.9	6543.5	808.5 (1.1)		
3063.0 (1.0)	3810.0 (2.3)	961.5	6554.0	858.5 (1.8)		
3078.0 (1.8)	3822.0 (4.5)	964.2	6615.2	992.1 (4.2)		
3085.0 (1.3)	3974.4 (6.8)	995.7	6822.4	1045.8 (2.0)		
3099.0 (1.7)	4120.2 (8.2)	1002.8	6865.9	1128.8 (7.2)		
3128.0 (1.3)	4136.9 (12.3)	1014.0	6903.1	1177.7 (1.9)		
3135.0 (1.7)	4144.8 (9.1)	1021.3	6978.2	1189.7 (1.9)		
3164.0 (1.6)	4168.4 (5.0)	1026.2	7942.1	1215.0 (9.7)		
3188.0 (1.0)	4241.3 (7.7)	1039.2	8021.3	1241.8 (59.5)		
3201.0 (1.7)	4324.1 (5.5)	1070.6				
3213.0 (1.0)	4351.6 (5.9)	1076.2				
3244.0 (1.0)	4477.7 (10.5)	1093.6	76.5 (8.0)	1277.6 (1.1)		
3279.0 (0.6)	4494.4 (2.7)	1116.1	82.8 (3.5)	1293.6 (1.3)		
3299.0 (1.0)	4512.0 (2.3)	1117.6	116.1 (11.7)	1305.5 (31.0)		
3340.0 (0.7)	4537.8 (2.3)	1119.8	120.0 (9.1)	1308.0 (9.9)		
3350.0 (0.5)	4568.3 (5.0)	1133.8	141.1 (2.8)	1318.9 (4.3)		
3399.0 (0.8)	4607.7 (7.3)	1143.0	399.4 (100.0)	1353.4 (2.3)		
3404.0 (1.1)	4642.3 (3.6)	1155.0	461.8 (9.5)	1371.4 (1.2)		
3443.0 (0.9)	4703.2 (6.8)	1173.2	564.8 (1.6)	1380.9 (2.3)		
3449.0 (0.9)	4725.9 (11.4)	1184.3	568.4 (7.6)	1410.9 (2.7)		
3464.0 (0.8)	4743.6 (10.0)	1205.6	589.0 (0.9)	1420.8 (1.2)		
3489.0 (0.5)	4784.0 (4.5)	1206.0	592.3 (1.6)	1448.4 (3.3)		
3521.0 (1.6)	4898.2 (2.3)	1216.4	596.2 (0.6)	1455.9 (2.3)		
3548.0 (2.5)	4914.0 (5.0)	1269.7	611.3 (2.9)	1462.3 (4.8)		
3577.4 (7.5)	5078.5 (7.7)	1288.6	623.3 (0.6)	1484.4 (6.3)		
3594.3 (1.3)	5122.8 (1.8)	1326.0	633.4 (1.7)	1529.5 (4.6)		
3617.5 (1.3)	5179.0 (4.1)	1344.2	674.2 (4.5)	1532.8 (6.7)		
3628.6 (2.6)	5226.1 (1.8)	1348.2	707.2 (0.8)	1548.0 (7.8)		
3644.8 (1.4)	5284.4 (4.1)	1361.5	714.2 (0.7)	1552.2 (5.1)		
3705.2 (1.9)	5284.4 (10.9)	1372.6	769.1 (2.6)	1557.6 (14.3)		
3719.6 (1.4)	5624.0 (19.5)	1387.3	831.6 (1.7)	1598.3 (4.7)		
3884.7 (0.9)	5627.0 (19.5)	1398.0	995.6 (1.2)	1624.8 (2.3)		
3925.1 (0.7)	5661.5 (0.9)	1402.9	1002.6 (0.9)	1632.6 (8.3)		
3958.7 (0.3)	5708.3 (6.8)	1440.5	1030.6 (5.7)	1634.1 (20.2)		
4054.6 (3.1)	6547.7 (18.2)	1450.3	1255.7 (1.1)	1657.3 (7.4)		
4162.0 (1.3)	6614.7 (100.0)	1466.0	3467.2 (1.4)	1674.8 (7.1)		
4185.4 (4.4)	172Yb		3491.7 (1.6)	1681.1 (2.7)		
4308.2 (0.4)	78.8	1476.8	4101.8 (2.0)	1696.6 (1.3)		
4347.4 (0.4)	90.7	1521.1	4167.1 (1.0)	1709.1 (6.1)		
4417.0 (0.9)	112.7	1529.8	4213.9 (0.8)	1710.9 (6.5)		
4461.6 (9.7)	131.8	1553.5	4875.5 (2.0)	1728.4 (2.0)		
4777.1 (2.4)	142.4	1584.3	5027.5 (0.9)	1774.2 (2.2)		
4975.0 (0.3)	151.1	1589.0	5135.9 (2.2)	1782.3 (4.2)		
5426.3 (1.3)	181.5	1599.8	5293.6 (8.3)	1808.9 (1.8)		
5483.1 (0.2)	197.0	1608.6	5336.8 (9.8)	1858.1 (2.7)		
171Yb			5905.4 (1.4)	1869.9 (5.1)		
669.6 (36.4)	203.4	1621.5	5968.1 (10.6)	1882.3 (4.5)		
691.1 (18.6)	208.3	1678.6	174Yb			
698.9 (17.3)	250.0	1695.9	76.5 (38.7)	1919.0 (4.7)		
776.4 (54.5)	264.7	1715.3	95.4 (1.7)	1933.6 (2.0)		
804.7 (63.6)	272.6	1743.3	118.3 (0.6)	1938.5 (2.6)		
832.6 (50.0)	279.7	1765.8	149.6 (1.9)	1991.7 (2.2)		
840.4 (37.7)	287.1	1771.3	172.2 (1.0)	2003.9 (2.3)		
845.3 (36.8)	291.4	1787.9	176.6 (100.0)	2025.1 (7.9)		
869.7 (19.5)	293.6	1815.7	213.4 (0.7)	2044.0 (2.1)		
876.0 (10.0)	321.7	1844.9	217.4 (0.8)	2083.3 (2.9)		
886.3 (36.8)	348.0	1850.1	224.2 (5.6)	2087.4 (6.0)		
906.4 (33.2)	358.9	1877.7	233.3 (1.0)	2095.5 (6.3)		
909.7 (40.5)	365.6	1931.3	240.1 (0.4)	2111.0 (2.4)		
921.5 (36.4)	377.5	1956.9	245.0 (3.0)	2163.6 (3.2)		
963.9 (36.4)	399.8	1968.3	252.1 (0.9)	2170.5 (6.5)		
991.3 (37.7)	422.3	1997.3	255.1 (0.4)	2198.5 (3.6)		
1039.4 (25.5)	423.0	2010.1	272.9 (13.4)	2389.0 (2.9)		
1099.0 (15.9)	436.1	2024.2	288.0 (22.4)	175Hf		
1116.0 (13.6)	437.5	2101.9	291.8 (0.5)	81.5	175Yb	
1129.2 (14.5)	476.3	2115.5	314.7 (0.5)	115.7		
1141.9 (8.2)	490.4	2135.1	319.5 (4.2)	125.7		
1205.4 (25.0)	523.8	2233.9	343.1 (1.5)	177.4		
1240.5 (35.0)	528.2	2238.5	351.6 (1.9)	197.0		
1256.0 (0.1)	535.4	2263.8	366.4 (3.0)	670.5		
1264.0 (0.1)	558.8	2296.3	387.0 (1.2)	714.1		
1370.5 (30.5)	565.0	2326.9	399.9 (0.5)	784.1		
1388.1 (15.9)	565.6	2401.5	409.7 (6.3)	866.7		
1434.9 (22.7)	578.5	2539.7	482.1 (1.8)	997.7		
1470.0 (34.1)	586.4	2567.7	504.7 (0.7)	1374.9		
1491.0 (29.5)	602.4	2591.7	532.9 (2.3)	1446.0		
2194.7 (18.6)	610.2	2706.6	546.7 (0.7)	1455.4		
2401.3 (23.6)	623.4	2792.4	567.5 (0.9)	1644.0		
2479.0 (4.5)	666.5	2825.8	602.7 (0.8)	5066.5		
2625.0 (8.2)	723.0	2920.1	622.4 (0.8)	5252.6		
2959.0 (10.0)	747.0	3010.6	661.7 (1.8)	5333.6		
3257.0 (7.3)	757.0	6064.0	669.2 (0.6)	5711.1		
3422.3 (8.6)	811.6	6125.5	674.7 (1.1)	5799.1		
3600.3 (10.9)	855.0	6171.1	718.3 (1.0)	5842.2		
	857.6	6226.0		6348.0		
				6512.1		
				6582.8		
					577.3	

Table II. CAPTURE γ 's - nuclide listed (cont.)

E _γ (keV) (X ₁ Y)	E _γ (keV) (X ₁ Y)	E _γ (keV) (X ₁ Y)	E _γ (keV) (X ₁ Y)	E _γ (keV) (X ₁ Y)	E _γ (keV) (X ₁ Y)
175Yb (cont.)			177Lu		
593.7	71.8 (3.3)	214.1 (4.0)	402.8 (1.6)	42.2 (0.1)	163.6 (<0.1)
602.8	73.1 (4.0)	216.0 (0.2)	408.7 (0.3)	49.4 (0.5)	164.1 (<0.1)
612.6	75.8 (0.5)	217.0 (6.0)	410.5 (1.0)	49.7 (0.2)	165.0 (0.1)
618.0	81.3 (0.2)	218.0 (0.9)	419.7 (1.7)	52.1 (0.1)	165.9 (<0.1)
624.7	82.0 (0.3)	219.2 (4.7)	422.7 (2.1)	71.6 (0.5)	166.9 (0.5)
624.7	82.9 (0.1)	221.4 (0.4)	424.8 (0.9)	73.4 (<0.1)	167.9 (0.5)
625.8	88.4 (32.0)	222.1 (3.0)	425.4 (4.4)	79.1 (0.2)	168.6 (6.4)
635.3	90.9 (2.5)	225.4 (32.0)	429.6 (0.5)	80.6 (<0.1)	169.5 (<0.1)
639.3	93.2 (0.4)	228.0 (11.7)	433.4 (1.2)	81.5 (2.1)	171.2 (0.2)
657.3	93.4 (2.0)	232.6 (0.1)	438.8 (1.3)	82.7 (<0.1)	171.9 (11.4)
680.1	96.9 (0.1)	233.7 (7.7)	444.9 (0.2)	84.7 (<0.1)	174.5 (0.4)
697.2	99.1 (3.1)	234.8 (0.7)	446.3 (0.2)	88.9 (0.2)	175.3 (<0.1)
698.4	103.7 (0.2)	238.7 (4.7)	447.8 (0.2)	90.7 (<0.1)	176.4 (<0.1)
707.4	104.1 (0.2)	239.3 (0.2)	452.9 (0.8)	91.0 (<0.1)	177.7 (<0.1)
725.7	105.0 (1.8)	240.2 (0.3)	474.9 (0.6)	91.7 (<0.1)	178.9 (<0.1)
729.2	105.7 (0.7)	240.7 (1.6)	476.9 (0.8)	93.2 (0.6)	180.1 (<0.1)
740.3	109.5 (0.1)	242.3 (0.3)	479.3 (1.1)	94.1 (4.5)	183.3 (<0.1)
741.7	111.9 (0.1)	246.2 (0.3)	484.7 (0.8)	94.4 (0.2)	183.5 (0.1)
767.1	112.5 (0.1)	247.2 (0.4)	490.9 (1.2)	97.5 (0.2)	185.6 (22.1)
800.5	112.9 (25.0)	247.6 (0.3)	493.2 (1.4)	98.7 (<0.1)	187.5 (0.4)
811.4	113.3 (0.1)	249.8 (0.1)	499.1 (0.8)	99.8 (<0.1)	188.1 (6.7)
812.1	114.1 (0.5)	251.2 (2.9)	516.5 (0.9)	101.9 (<0.1)	190.1 (0.4)
816.2	114.5 (0.1)	252.5 (0.2)	520.1 (1.0)	103.4 (<0.1)	191.5 (3.6)
825.2	115.1 (2.5)	253.9 (0.4)	525.0 (0.8)	105.2 (<0.1)	192.2 (0.1)
841.7	116.2 (0.8)	251.8 (0.5)	527.5 (5.3)	106.2 (<0.1)	193.4 (<0.1)
852.7	116.7 (0.2)	256.7 (0.2)	549.5 (3.1)	106.5 (<0.1)	194.6 (<0.1)
858.3	118.3 (0.2)	257.4 (0.1)	558.9 (1.6)	106.7 (<0.1)	195.6 (4.0)
866.2	118.7 (0.9)	258.8 (0.3)	563.9 (10.7)	107.3 (<0.1)	196.4 (0.2)
869.7	119.7 (1.4)	260.8 (0.1)	567.7 (1.6)	107.8 (<0.1)	197.5 (<0.1)
871.7	120.5 (1.4)	262.7 (3.3)	578.6 (4.7)	110.0 (<0.1)	197.8 (0.2)
894.7	124.0 (1.3)	263.7 (13.7)	582.2 (1.0)	110.3 (<0.1)	198.1 (<0.1)
904.7	125.8 (0.1)	264.7 (1.7)	587.4 (0.7)	111.0 (<0.1)	199.1 (<0.1)
941.2	129.8 (4.0)	266.7 (0.2)	596.9 (2.1)	111.7 (6.9)	202.2 (0.6)
945.0	132.8 (0.3)	270.1 (0.3)	625.1 (1.9)	112.0 (0.2)	203.9 (0.1)
947.2	133.7 (1.5)	270.8 (1.2)	632.9 (2.7)	113.9 (<0.1)	205.3 (<0.1)
954.1	134.4 (0.1)	271.8 (3.1)	660.8 (1.7)	114.0 (<0.1)	205.8 (<0.1)
957.3	134.7 (0.1)	272.7 (<0.1)	668.0 (1.3)	115.3 (0.3)	207.8 (5.0)
961.1	136.7 (0.2)	274.7 (1.8)	672.7 (2.4)	115.7 (0.8)	209.6 (1.5)
982.6	137.5 (0.2)	276.4 (0.2)	692.0 (2.0)	115.9 (<0.1)	212.8 (1.0)
988.2	139.4 (8.3)	277.7 (3.7)	709.4 (2.5)	116.6 (<0.1)	213.4 (0.7)
1006.2	140.5 (0.6)	278.6 (0.3)	722.7 (3.3)	119.1 (<0.1)	214.0 (1.0)
1008.8	144.5 (2.3)	279.5 (0.2)	727.2 (2.0)	119.8 (7.6)	218.1 (0.7)
1022.4	145.1 (0.4)	282.6 (0.2)	747.7 (1.3)	121.1 (<0.1)	220.5 (<0.1)
1115.5	147.5 (4.3)	284.6 (10.3)	766.1 (1.8)	121.2 (<0.1)	221.6 (0.1)
1378.5	148.2 (1.0)	285.6 (0.5)	336.7 (9.0)	121.6 (34.8)	224.1 (0.2)
3632.3	150.8 (0.8)	287.3 (0.4)	5234.0 (0.7)	123.2 (0.2)	225.5 (<0.1)
3661.2	151.7 (<0.1)	292.5 (0.6)	5258.0 (0.6)	123.9 (<0.1)	228.7 (1.1)
3685.0	153.5 (13.3)	296.2 (0.3)	5268.0 (0.2)	124.4 (0.6)	229.6 (0.1)
3714.4	156.3 (0.1)	299.4 (2.3)	5302.4 (0.6)	125.0 (0.1)	233.5 (0.3)
3740.8	158.5 (0.4)	299.9 (0.7)	5331.5 (3.4)	125.4 (<0.1)	235.9 (4.3)
3757.3	159.5 (7.4)	301.7 (0.8)	5345.0 (0.5)	126.2 (<0.1)	239.4 (0.1)
3776.2	160.6 (0.3)	302.4 (0.2)	5366.4 (0.5)	126.6 (<0.1)	240.6 (0.1)
3782.9	161.4 (0.2)	303.3 (0.2)	5382.0 (0.7)	127.1 (<0.1)	241.1 (0.2)
3823.8	162.7 (0.2)	305.9 (0.4)	5405.6 (0.9)	128.4 (0.1)	242.7 (0.2)
3842.1	164.1 (0.2)	307.5 (0.2)	5421.0 (0.1)	129.1 (<0.1)	244.3 (2.6)
3854.2	166.3 (<0.1)	309.1 (1.3)	5429.2 (0.5)	129.6 (<0.1)	247.3 (0.7)
3884.0	167.9 (0.7)	310.2 (29.0)	5446.1 (2.0)	130.1 (0.1)	248.4 (0.1)
3929.2	169.5 (0.5)	310.9 (1.9)	5502.1 (0.6)	130.9 (<0.1)	251.4 (0.1)
3978.6	169.6 (1.2)	315.6 (0.3)	5537.3 (0.8)	132.8 (<0.1)	252.2 (0.2)
4129.6	175.4 (0.4)	316.6 (0.4)	5555.9 (0.3)	133.8 (<0.1)	256.3 (0.1)
4138.6	177.9 (0.2)	320.6 (0.8)	5566.7 (1.8)	135.8 (2.2)	259.4 (10.7)
4161.9	178.2 (0.2)	321.5 (0.3)	5630.5 (0.8)	136.2 (0.3)	263.1 (<0.1)
4174.7	181.5 (0.3)	325.0 (0.5)	5654.6 (0.2)	137.6 (<0.1)	263.5 (0.1)
4195.2	181.9 (0.5)	327.0 (0.2)	5693.9 (0.3)	138.6 (42.1)	264.6 (2.0)
4272.9	182.4 (6.7)	328.6 (0.7)	5755.3 (0.2)	139.7 (0.3)	268.8 (21.2)
4325.1	183.0 (0.5)	329.3 (0.4)	5785.0 (0.2)	140.5 (<0.1)	272.2 (0.3)
4354.0	184.1 (1.6)	330.5 (4.0)	5802.0 (0.3)	142.2 (<0.1)	272.3 (0.8)
4407.0	185.0 (1.5)	335.8 (25.7)	5825.7 (1.3)	142.8 (<0.1)	274.8 (0.9)
4454.7	185.3 (2.1)	338.5 (2.7)	5855.5 (0.3)	143.7 (<0.1)	275.9 (0.2)
4465.9	187.0 (3.2)	341.7 (2.0)	5909.5 (0.2)	144.7 (7.1)	277.2 (0.3)
4700.8	188.3 (7.7)	343.0 (0.3)	5983.4 (2.8)	145.9 (9.0)	279.3 (0.3)
4830.0	192.2 (30.3)	344.5 (0.4)		147.2 (22.4)	281.5 (0.1)
4902.9	194.2 (0.2)	346.4 (1.0)	177Hf	149.5 (0.4)	282.6 (0.2)
5011.2	194.6 (0.2)	350.3 (2.0)	112.9	150.4 (100.0)	284.2 (0.2)
5266.7	196.3 (0.1)	353.1 (0.3)	337.5	150.9 (0.1)	288.1 (0.5)
5307.7	197.2 (3.7)	355.7 (2.0)	339.5	152.8 (<0.1)	289.5 (0.2)
	198.9 (0.1)	357.5 (0.3)	349.0	153.8 (<0.1)	294.3 (0.3)
	199.5 (0.1)	359.0 (1.5)	357.4	154.4 (<0.1)	296.2 (0.2)
176Lu	199.9 (0.9)	359.9 (3.9)	367.4	155.0 (<0.1)	296.6 (0.2)
22.1 (1.4)	201.5 (12.7)	361.5 (0.6)	395.4	155.9 (0.1)	298.9 (0.2)
38.7 (5.3)	203.4 (0.8)	362.7 (1.2)	398.7	157.0 (0.1)	301.1 (3.6)
46.5 (5.3)	204.7 (0.5)	368.4 (0.8)	403.3	158.4 (<0.1)	303.5 (0.1)
51.9 (0.7)	205.5 (0.2)	369.6 (0.3)	508.6	158.8 (<0.1)	309.2 (0.2)
58.6 (1.0)	206.0 (<0.1)	376.9 (0.6)	510.4	160.4 (<0.1)	310.7 (0.2)
64.5 (2.3)	206.9 (0.2)	381.8 (0.8)	619.1	161.4 (<0.1)	313.3 (2.4)
66.2 (6.7)	210.5 (0.5)	384.3 (0.5)	623.0	162.5 (36.9)	315.9 (<0.1)
69.5 (0.7)	212.5 (0.4)	392.5 (2.4)	5762.0		319.0 (22.4)

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_{\gamma}(\text{keV})$ (ΣI_{γ})	$E_{\gamma}(\text{keV})$ (ΣI_{γ})	$E_{\gamma}(\text{keV})$ (ΣI_{γ})	$E_{\gamma}(\text{keV})$ (ΣI_{γ})	$E_{\gamma}(\text{keV})$ (ΣI_{γ})	$E_{\gamma}(\text{keV})$ (ΣI_{γ})	
177Lu (cont.)						
322.9 (1.8)	736.3 (0.6)	1130.9 (0.2)	1704.7 (<0.1)	177Yb		
325.7 (0.4)	747.8 (0.2)	1133.6 (0.3)	1725.7 (<0.1)	49.3 (<0.1)	3087.0 (5.2)	
326.6 (0.3)	747.3 (0.4)	1138.8 (0.5)	1737.2 (<0.1)	53.7 (<0.1)	3171.5 (1.5)	
329.6 (1.1)	753.3 (0.5)	1140.3 (0.9)	1755.6 (<0.1)	66.4 (<0.1)	3189.6 (1.6)	
330.9 (0.5)	760.4 (<0.1)	1146.2 (0.3)	1791.3 (<0.1)	83.5 (<0.1)	3323.4 (2.9)	
333.4 (<0.1)	761.7 (14.3)	1150.2 (0.6)	1803.7 (<0.1)	91.8 (<0.1)	3387.4 (12.4)	
336.3 (1.1)	768.7 (<0.1)	1156.0 (<0.1)	1851.0 (<0.1)	103.0 (<0.1)	3404.6 (2.1)	
341.3 (0.2)	774.8 (0.2)	1161.7 (0.2)	1870.0 (<0.1)	104.5 (85.3)	3426.0 (3.7)	
346.4 (2.0)	778.4 (0.2)	1166.7 (1.3)	2009.4 (<0.1)	107.3 (76.5)	3498.2 (1.4)	
348.0 (3.8)	783.5 (0.3)	1170.8 (0.9)	2082.0 (<0.1)	109.6 (<0.1)	3534.3 (0.9)	
357.1 (0.2)	787.2 (0.7)	1176.3 (0.3)	4866.8 (1.4)	117.2 (<0.1)	3545.0 (0.4)	
360.1 (1.7)	793.1 (0.3)	1178.7 (0.5)	4938.5 (0.5)	124.6 (58.8)	3645.6 (0.9)	
362.2 (0.4)	800.7 (0.3)	1183.8 (0.2)	4955.0 (0.1)	134.3 (<0.1)	3740.5 (1.2)	
364.6 (4.3)	803.8 (0.5)	1185.1 (1.8)	4965.6 (0.3)	141.1 (27.1)	3865.0 (4.4)	
367.4 (15.2)	805.7 (0.8)	1190.6 (0.5)	4984.2 (0.6)	148.3 (<0.1)	3908.2 (15.9)	
372.7 (0.6)	811.9 (0.7)	1194.7 (0.5)	5016.4 (1.3)	151.6 (100.0)	3974.0 (0.6)	
378.0 (<0.1)	813.6 (0.5)	1196.9 (1.0)	5023.4 (1.1)	154.7 (<0.1)	4150.0 (2.6)	
379.5 (<0.1)	817.0 (0.4)	1202.6 (1.3)	5039.5 (0.1)	203.9 (<0.1)	4207.5 (0.6)	
383.1 (0.4)	822.9 (0.8)	1215.5 (0.8)	5053.2 (0.2)	202.7 (<0.1)	4246.5 (17.1)	
385.7 (0.2)	828.4 (0.5)	1220.7 (1.3)	5060.1 (0.1)	203.7 (<0.1)	4282.0 (7.1)	
391.3 (<0.1)	830.1 (0.5)	1224.9 (0.2)	5066.5 (0.1)	219.6 (<0.1)	4357.4 (1.2)	
393.4 (2.2)	834.6 (1.2)	1229.1 (1.2)	5075.3 (0.1)	220.6 (<0.1)	4568.3 (1.2)	
396.4 (0.6)	837.8 (0.3)	1230.8 (<0.1)	5081.9 (0.2)	226.2 (<0.1)	4626.7 (7.6)	
401.7 (0.6)	839.8 (1.8)	1231.4 (1.3)	5090.2 (0.2)	227.0 (37.1)	4699.0 (1.3)	
403.1 (0.4)	845.0 (1.4)	1233.7 (1.1)	5106.0 (<0.1)	234.3 (<0.1)	4732.7 (0.3)	
404.0 (0.7)	851.3 (1.7)	1237.0 (1.1)	5112.6 (0.7)	266.6 (<0.1)	4862.5 (0.6)	
406.4 (0.4)	855.1 (0.5)	1241.6 (0.5)	5124.7 (0.1)	282.6 (<0.1)	5190.6 (0.7)	
413.7 (4.8)	857.6 (0.6)	1248.3 (0.5)	5130.3 (<0.1)	285.9 (<0.1)	5233.9 (1.7)	
426.1 (0.4)	861.0 (0.2)	1252.0 (0.6)	5144.8 (0.1)	310.5 (6.5)	178Hf	
430.5 (0.8)	864.6 (1.1)	1256.3 (1.1)	5153.9 (0.2)	328.4 (<0.1)	87.0 (<0.1)	88.8 (0.8)
435.9 (1.2)	872.9 (0.4)	1263.4 (0.6)	5165.2 (0.7)	344.4 (10.0)	93.2 (43.8)	
447.7 (0.6)	876.5 (3.5)	1267.4 (0.5)	5170.7 (0.5)	363.9 (10.0)	100.9 (<0.1)	125.8 (<0.1)
457.9 (46.9)	879.7 (0.5)	1270.9 (0.4)	5178.3 (0.1)	434.4 (10.6)	129.3 (<0.1)	140.9 (0.5)
475.6 (1.7)	884.2 (0.5)	1274.4 (0.6)	5187.9 (<0.1)	442.3 (<0.1)	148.1 (<0.1)	151.3 (<0.1)
481.9 (0.6)	891.0 (0.2)	1279.0 (0.4)	5192.2 (0.8)	477.1 (13.5)	149.1 (0.2)	187.6 (0.2)
489.2 (0.5)	895.3 (0.5)	1281.1 (0.5)	5210.2 (0.5)	491.9 (24.7)	180.4 (<0.1)	203.8 (0.5)
506.6 (0.4)	899.1 (2.2)	1283.2 (0.6)	5213.1 (0.4)	499.7 (4.7)	204.0 (0.3)	227.2 (0.5)
509.7 (0.5)	902.2 (0.8)	1290.1 (0.5)	5220.3 (0.1)	510.2 (<0.1)	244.2 (1.3)	245.2 (1.2)
515.5 (0.7)	904.2 (1.1)	1296.0 (0.9)	5230.4 (<0.1)	534.3 (2.4)	256.0 (0.7)	256.5 (0.8)
520.7 (1.0)	907.9 (<0.1)	1301.5 (1.9)	5246.0 (0.1)	550.5 (2.3)	264.6 (<0.1)	269.4 (<0.1)
525.3 (0.4)	910.6 (0.9)	1305.7 (0.9)	5258.2 (0.1)	563.5 (8.2)	274.7 (0.1)	279.3 (<0.1)
528.6 (0.4)	916.3 (2.4)	1309.0 (1.0)	5267.9 (0.5)	570.2 (<0.1)	306.4 (0.2)	313.4 (<0.1)
534.2 (0.4)	920.2 (0.5)	1309.9 (0.9)	5296.0 (<0.1)	573.2 (4.4)	325.5 (16.5)	328.6 (<0.1)
540.5 (0.4)	927.2 (0.5)	1316.4 (0.8)	5319.4 (1.0)	588.7 (3.4)	339.1 (<0.1)	354.6 (<0.1)
542.5 (0.8)	933.6 (0.4)	1322.3 (1.0)	5323.8 (0.7)	599.7 (2.9)	403.6 (<0.1)	426.2 (1.4)
544.3 (1.1)	936.0 (0.2)	1332.3 (1.8)	5333.7 (<0.1)	606.3 (10.0)	481.4 (<0.1)	497.8 (<0.1)
547.8 (1.6)	940.2 (1.0)	1336.7 (0.6)	5343.9 (1.5)	608.2 (16.5)	628.3 (<0.1)	633.3 (<0.1)
550.4 (2.7)	941.5 (0.9)	1341.5 (0.4)	5366.7 (0.5)	622.9 (10.6)	753.0 (<0.1)	817.5 (<0.1)
552.1 (3.6)	945.6 (0.6)	1344.6 (0.8)	5382.8 (0.2)	633.3 (6.5)	868.5 (<0.1)	901.4 (<0.1)
554.6 (0.3)	951.4 (1.1)	1347.0 (0.9)	5395.7 (0.7)	637.8 (6.5)	969.9 (<0.1)	1005.0 (<0.1)
561.5 (0.3)	954.9 (0.4)	1349.5 (0.9)	5422.2 (0.1)	662.3 (4.2)	1008.4 (<0.1)	1015.7 (<0.1)
566.7 (0.5)	958.2 (0.9)	1355.2 (0.5)	5439.2 (<0.1)	666.8 (4.2)	1059.1 (<0.1)	1077.9 (<0.1)
570.1 (0.2)	962.4 (0.3)	1362.0 (0.6)	5439.2 (0.4)	696.2 (6.5)	1081.5 (<0.1)	1102.9 (<0.1)
573.6 (0.3)	965.9 (0.6)	1367.0 (2.3)	5453.0 (0.1)	698.5 (15.9)	1126.4 (<0.1)	1144.8 (<0.1)
576.6 (0.4)	967.7 (1.0)	1373.0 (0.3)	5460.2 (<0.1)	791.3 (12.4)	1156.8 (<0.1)	1167.4 (<0.1)
581.9 (0.4)	971.1 (0.5)	1376.9 (0.5)	5465.6 (1.3)	825.1 (4.7)	1174.6 (<0.1)	1175.6 (<0.1)
584.7 (0.1)	978.4 (1.0)	1381.1 (1.9)	5481.7 (<0.1)	833.8 (4.1)	1183.4 (<0.1)	1190.4 (<0.1)
591.3 (<0.1)	987.5 (0.4)	1387.4 (0.6)	5501.4 (<0.1)	842.3 (4.4)		
599.6 (0.1)	987.5 (0.5)	1395.1 (0.5)	5527.0 (0.1)	847.4 (2.1)		
603.2 (0.1)	992.5 (0.3)	1400.7 (1.3)	5570.5 (2.2)	859.6 (3.6)		
606.6 (1.1)	996.4 (0.4)	1409.1 (0.9)	5592.1 (0.1)	871.8 (6.5)		
611.2 (0.1)	1000.1 (0.6)	1413.4 (0.6)	5597.0 (0.4)	888.1 (2.6)		
615.2 (0.4)	1009.2 (1.3)	1415.7 (0.9)	5601.8 (1.9)	896.2 (6.5)		
618.2 (0.2)	1014.1 (3.5)	1417.1 (0.7)	5607.7 (0.3)	936.7 (2.1)		
621.1 (0.4)	1022.3 (0.3)	1423.5 (0.5)	5617.9 (0.2)	943.8 (27.6)		
625.3 (0.2)	1025.6 (0.7)	1428.2 (0.5)	5643.5 (0.3)	953.2 (5.9)		
632.9 (0.5)	1030.7 (2.0)	1433.1 (<0.1)	5716.2 (0.4)	982.5 (5.9)		
637.2 (0.5)	1035.5 (0.9)	1443.8 (0.7)	5724.2 (0.2)	987.4 (5.2)		
640.7 (0.6)	1038.8 (1.7)	1446.9 (0.5)	5730.1 (1.3)	993.9 (4.0)		
647.2 (0.1)	1047.3 (0.9)	1451.0 (0.6)	5746.8 (0.2)	998.5 (2.4)		
652.6 (0.4)	1048.9 (1.7)	1455.1 (0.9)	5766.0 (0.2)	1004.0 (9.4)		
659.6 (0.5)	1052.5 (0.5)	1462.7 (0.7)	5769.9 (1.1)	1029.6 (5.5)		
665.6 (0.5)	1056.6 (1.3)	1472.5 (<0.1)	5786.0 (0.2)	1069.5 (5.5)		
671.9 (0.8)	1061.9 (2.5)	1479.0 (0.5)	5841.9 (0.2)	1080.1 (23.5)		
680.8 (0.2)	1066.0 (3.1)	1494.3 (<0.1)	5884.0 (<0.1)	1104.1 (3.2)		
688.4 (0.6)	1070.7 (0.7)	1500.3 (<0.1)	5888.5 (<0.1)	1254.6 (3.8)		
689.7 (1.8)	1076.0 (0.7)	1507.9 (<0.1)	5895.9 (0.5)	1303.5 (1.8)		
695.3 (1.4)	1080.2 (3.3)	1513.8 (<0.1)	5907.4 (<0.1)	1367.8 (3.0)		
701.8 (<0.1)	1086.6 (0.9)	1522.3 (<0.1)	6086.4 (0.1)	1498.5 (3.7)		
710.0 (0.5)	1088.1 (4.0)	1534.9 (<0.1)	6092.6 (0.3)	1588.0 (2.4)		
714.0 (0.9)	1093.3 (0.6)	1540.1 (<0.1)	6112.0 (<0.1)	1608.0 (2.9)		
716.7 (1.1)	1098.6 (1.1)	1561.5 (<0.1)	6255.7 (0.5)	1633.3 (4.7)		
719.5 (0.5)	1108.0 (<0.1)	1615.2 (<0.1)	6436.1 (0.7)	1805.2 (4.6)		
720.1 (0.8)	1113.4 (0.3)	1629.2 (<0.1)	6621.3 (0.1)	2260.3 (1.5)		
727.6 (0.4)	1120.0 (<0.1)	1639.3 (<0.1)	6782.4 (<0.1)	2658.5 (1.5)		
730.8 (0.3)	1121.5 (0.3)	1648.0 (<0.1)	6803.6 (2.5)	2711.8 (1.9)		
	1124.8 (0.2)	1688.0 (<0.1)		2825.1 (2.4)		

Table II. CAPTURE γ 's - nuclide sorted (cont.)

[illegible]

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E\gamma(\text{keV})$ (X17)	$E\gamma(\text{keV})$ (X17)	$E\gamma(\text{keV})$ (X17)	$E\gamma(\text{keV})$ (X17)	$E\gamma(\text{keV})$ (X17)	$E\gamma(\text{keV})$ (X17)	$E\gamma(\text{keV})$ (X17)
184W (cont.)	4837.7 (0.6)	307.4 (1.9)	450.7 (20.5)	108.2 (0.5)	241.9 (0.3)	
2015.3 (5.2)	4855.9 (1.0)	314.1 (2.6)	463.8 (5.2)	108.3 (1.5)	246.8 (0.8)	
2035.0 (5.3)	4892.1 (2.8)	322.7 (10.0)	482.6 (2.7)	108.6 (0.2)	248.8 (0.3)	
2056.3 (4.5)	4901.7 (1.5)	336.0 (2.1)	517.3 (15.7)	109.5 (0.4)	249.6 (0.4)	
2097.6 (2.6)	4924.4 (1.1)	342.9 (4.4)	570.1 (29.2)	110.2 (1.6)	251.8 (35.4)	
2110.0 (2.1)	4952.4 (3.8)	357.1 (<0.1)	580.5 (20.3)	111.3 (10.5)	255.0 (26.9)	
2135.1 (1.9)	4971.4 (2.4)	368.8 (<0.1)	636.6 (42.1)	111.7 (12.3)	257.4 (27.7)	
2183.6 (4.8)	4981.5 (0.4)	376.8 (5.5)	640.1 (52.4)	111.8 (6.7)	259.4 (0.8)	
2258.6 (2.6)	5007.4 (3.2)	377.5 (<0.1)	664.2 (65.4)	112.1 (0.2)	260.9 (2.3)	
2267.6 (2.5)	5015.9 (15.9)	382.7 (2.2)	675.2 (18.6)	118.2 (1.9)	261.3 (13.1)	
2284.2 (5.6)	5021.9 (4.4)	387.5 (<0.1)	715.4 (7.5)	122.5 (11.5)	263.3 (1.9)	
2328.2 (4.6)	5040.8 (2.4)	406.7 (21.0)	734.0 (16.1)	122.6 (3.8)	266.0 (1.2)	
2370.4 (2.5)	5059.1 (0.6)	411.8 (<0.1)	744.7 (29.1)	123.5 (2.9)	266.7 (1.1)	
2389.7 (1.8)	5090.7 (0.7)	417.7 (<0.1)	757.5 (46.1)	125.4 (0.3)	269.8 (0.3)	
2458.4 (2.9)	5116.4 (11.3)	419.5 (8.7)	768.3 (14.8)	127.4 (5.3)	271.5 (2.1)	
2690.7 (2.9)	5164.8 (4.5)	431.3 (100.0)	788.1 (22.9)	128.7 (1.4)	278.6 (0.9)	
2703.9 (4.1)	5182.8 (0.7)	447.6 (4.2)	804.0 (15.1)	134.2 (1.0)	285.1 (4.3)	
2733.1 (2.2)	5189.2 (1.2)	460.8 (<0.1)	822.5 (65.4)	135.3 (0.3)	286.5 (1.7)	
3349.3 (2.7)	5242.9 (5.9)	462.5 (10.2)	840.0 (13.1)	135.7 (0.3)	289.1 (0.5)	
3439.0 (1.5)	5284.6 (11.2)	468.5 (<0.1)	888.8 (24.7)	137.1 (76.2)	295.9 (1.3)	
3449.0 (2.6)	5297.6 (1.1)	491.9 (1.9)	894.6 (34.6)	138.2 (0.5)	301.4 (1.1)	
3480.8 (1.1)	5307.3 (1.0)	500.9 (<0.1)	903.3 (41.7)	139.4 (2.5)	307.6 (6.0)	
3528.2 (3.4)	5312.8 (2.2)	501.7 (1.8)	912.6 (73.2)	140.1 (4.9)	316.5 (49.2)	
3604.0 (2.3)	5321.2 (2.9)	508.2 (8.0)	944.3 (20.3)	140.9 (0.7)	319.4 (3.3)	
3628.6 (1.3)	5348.7 (2.7)	513.3 (<0.1)	949.1 (7.5)	141.3 (3.5)	321.7 (1.6)	
3640.4 (2.1)	5355.1 (0.4)	522.2 (<0.1)	975.7 (15.6)	142.8 (1.1)	328.4 (0.5)	
3667.0 (2.7)	5375.3 (2.6)	523.9 (<0.1)	993.0 (6.5)	143.9 (10.0)	335.7 (0.8)	
3696.0 (2.1)	5380.0 (1.5)	538.7 (<0.1)	1007.4 (21.4)	144.2 (33.1)	341.4 (2.0)	
3707.8 (2.9)	5398.6 (1.2)	539.6 (24.6)	1027.8 (26.1)	144.4 (0.6)	354.1 (7.4)	
3724.6 (2.0)	5415.3 (0.1)	547.9 (<0.1)	1031.9 (29.4)	145.1 (0.8)	355.6 (2.1)	
3759.0 (2.2)	5533.7 (5.2)	551.8 (31.4)	1048.0 (6.5)	146.3 (1.3)	357.7 (1.7)	
3776.5 (2.7)	5602.4 (1.7)	589.7 (30.4)	1075.0 (6.5)	147.4 (10.8)	360.4 (7.5)	
3793.3 (1.5)	5635.8 (1.0)	592.9 (<0.1)	1098.0 (6.5)	148.1 (0.3)	363.5 (2.9)	
3839.2 (2.1)	5697.7 (1.0)	609.3 (4.2)	1104.0 (6.5)	148.4 (0.7)	366.8 (1.7)	
3864.3 (2.3)	5783.5 (2.5)	620.6 (3.5)	1110.0 (6.5)	149.0 (5.2)	373.5 (0.8)	
3910.1 (2.0)	5796.7 (22.9)	626.3 (7.4)	1122.6 (22.2)	149.5 (6.2)	378.4 (12.7)	
3924.0 (1.0)	5979.9 (3.7)	643.2 (10.1)	1126.4 (44.6)	150.5 (4.4)	380.7 (1.5)	
3956.8 (2.3)	6024.5 (35.6)	669.2 (8.3)	1153.3 (10.1)	151.7 (21.5)	386.3 (0.7)	
3962.9 (2.4)	6089.1 (0.7)	741.7 (5.3)	1158.4 (24.2)	157.0 (0.7)	390.9 (25.4)	
3982.6 (1.3)	6190.6 (26.0)	746.3 (3.4)	1165.1 (52.3)	158.7 (0.5)	396.5 (1.5)	
4025.0 (2.7)	6280.2 (1.6)	751.5 (11.4)	1173.7 (20.5)	158.9 (0.3)	401.3 (0.8)	
4033.6 (1.5)	6289.5 (23.4)	759.9 (2.8)	1181.6 (76.5)	160.1 (1.1)	406.9 (1.8)	
4039.6 (1.2)	6408.5 (42.9)	775.9 (4.0)	1195.7 (30.1)	161.7 (0.4)	411.2 (2.5)	
4046.4 (0.7)	6507.7 (9.5)	837.5 (3.5)	1330.4 (28.1)	163.3 (0.8)	413.2 (3.1)	
4059.5 (1.2)	7300.0 (15.3)	842.1 (7.2)	1345.6 (19.6)	164.5 (2.9)	418.4 (2.0)	
4082.2 (1.5)	7411.2 (61.3)	848.9 (3.5)	1408.0 (24.6)	166.5 (0.3)	420.0 (1.8)	
4094.5 (0.7)		965.0 (4.8)	1452.0 (24.2)	167.7 (3.7)	426.4 (1.3)	
4103.2 (1.4)	1850s	1014.6 (4.5)	1458.3 (22.9)	169.4 (2.3)	430.9 (1.2)	
4120.6 (3.7)	37.4 (<0.1)	1078.3 (4.4)	3873.3 (7.2)	170.5 (0.5)	434.2 (1.8)	
4146.5 (3.5)	60.2 (<0.1)	5084.0 (12.0)	4097.5 (4.0)	171.1 (0.4)	439.0 (1.8)	
4160.0 (4.8)	62.2 (<0.1)	5118.0 (8.0)	4182.2 (6.2)	172.3 (0.3)	469.4 (1.7)	
4166.5 (2.0)	83.7 (<0.1)	5206.0 (6.0)	4218.7 (32.7)	174.3 (7.7)	477.9 (3.8)	
4184.0 (2.3)	84.7 (<0.1)	5271.0 (7.0)	4312.8 (28.1)	176.1 (3.2)	479.3 (5.4)	
4190.5 (1.8)	90.6 (<0.1)	5415.0 (5.0)	4395.3 (8.0)	176.6 (2.6)	487.2 (1.8)	
4210.8 (2.0)	94.5 (<0.1)	5447.0 (7.0)	4468.7 (21.6)	177.2 (1.7)	496.6 (3.6)	
4218.3 (1.5)	97.5 (<0.1)	5508.0 (8.0)	4508.5 (3.9)	179.4 (2.1)	533.9 (1.6)	
4226.7 (6.5)	100.5 (<0.1)	5564.0 (10.0)	4535.8 (72.8)	182.2 (2.2)	550.9 (1.7)	
4242.8 (3.7)	103.1 (<0.1)	5659.0 (5.0)	4573.6 (100.0)	183.1 (0.2)	561.6 (1.1)	
4275.4 (3.7)	104.4 (<0.1)	5744.0 (10.0)	4691.7 (7.4)	186.0 (0.5)	580.4 (1.4)	
4299.0 (2.6)	119.5 (<0.1)	5781.0 (5.0)	4746.3 (56.2)	186.7 (0.3)	584.3 (1.4)	
4306.6 (8.3)	124.9 (<0.1)	5827.0 (3.0)	4932.0 (28.4)	187.8 (0.2)	607.5 (2.4)	
4342.2 (2.6)	127.2 (<0.1)	5983.0 (7.0)	4980.5 (15.9)	189.3 (6.0)	616.4 (1.2)	
4375.6 (3.6)	127.8 (16.8)	6156.0 (48.0)	4986.8 (18.2)	190.7 (0.5)	621.0 (1.1)	
4384.6 (5.9)	129.4 (<0.1)	6217.0 (4.0)	5025.3 (6.3)	192.6 (0.3)	625.7 (1.4)	
4393.6 (3.7)	141.8 (<0.1)	6496.0 (9.0)	5091.7 (65.4)	194.0 (0.7)	631.0 (2.8)	
4407.0 (1.1)	144.6 (<0.1)	6588.0 (100.0)	5659.0 (1.7)	195.8 (0.2)	645.3 (1.1)	
4428.7 (0.8)	145.6 (<0.1)		5730.0 (3.4)	197.0 (0.2)	651.3 (0.8)	
4442.9 (4.1)	153.4 (<0.1)	185W	5754.1 (36.9)	197.7 (0.8)	680.0 (2.1)	
4460.3 (2.9)	158.4 (26.8)	107.8 (1.2)		201.0 (1.8)	689.9 (1.5)	
4491.8 (2.3)	160.6 (<0.1)	110.4 (2.6)	186s	201.8 (0.3)	694.1 (3.5)	
4509.1 (1.7)	164.0 (<0.1)	147.8 (0.8)	40.3 (11.1)	202.6 (0.9)	715.1 (2.1)	
4539.6 (1.2)	177.6 (<0.1)	151.0 (1.0)	56.4 (1.9)	205.0 (0.5)	728.1 (2.2)	
4555.5 (1.0)	181.6 (4.6)	164.9 (1.1)	59.0 (100.0)	209.8 (2.5)	761.6 (3.0)	
4561.9 (1.7)	184.2 (<0.1)	173.5 (8.7)	61.9 (9.2)	210.7 (25.4)		
4596.7 (5.7)	185.3 (<0.1)	177.0 (13.2)	64.4 (0.5)	213.9 (0.5)		
4609.1 (6.3)	200.8 (<0.1)	188.4 (2.6)	74.6 (11.5)	214.6 (50.0)	9.8 (<0.1)	
4613.3 (1.3)	220.9 (<0.1)	221.2 (1.2)	86.8 (1.8)	215.3 (0.8)	25.6 (<0.1)	
4647.1 (8.7)	222.4 (24.7)	239.5 (1.3)	87.3 (15.4)	217.9 (0.7)	64.6 (<0.1)	
4653.0 (2.6)	223.9 (<0.1)	244.0 (0.7)	92.1 (4.5)	218.7 (0.5)	65.3 (<0.1)	
4680.8 (3.3)	239.7 (3.5)	248.0 (0.7)	99.4 (3.9)	219.8 (1.5)	74.3 (<0.1)	
4690.7 (2.0)	246.1 (1.1)	265.6 (7.2)	99.7 (2.1)	220.5 (0.3)	75.0 (<0.1)	
4703.7 (3.2)	251.6 (<0.1)	272.8 (9.0)	100.6 (0.5)	221.8 (0.5)	84.9 (<0.1)	
4761.4 (1.5)	254.4 (16.5)	294.0 (1.3)	100.9 (0.5)	223.0 (4.2)	90.4 (<0.1)	
4781.2 (1.8)	256.3 (<0.1)	312.0 (1.0)	102.6 (0.5)	228.4 (0.8)	112.4 (<0.1)	
4791.8 (1.0)	278.3 (3.7)	316.0 (1.3)	103.3 (9.4)	230.6 (0.3)	113.2 (<0.1)	
4797.5 (3.9)	282.9 (1.4)	416.9 (11.8)	103.6 (0.6)	232.1 (4.4)	115.6 (<0.1)	
4820.1 (0.4)	300.2 (7.7)	418.4 (15.5)	106.6 (4.9)	237.6 (0.7)	146.4 (5.6)	

Table II. CAPTURE γ 's - nuclide sorted (cont.)

E _γ (keV) (X17)	E _γ (keV) (X17)	E _γ (keV) (X17)	E _γ (keV) (X17)	E _γ (keV) (X17)	E _γ (keV) (X17)
1870s (cont.)					
162.5 (8.7)	142.9 (0.9)	1041.3 (2.5)	204.2 (<0.1)	1336.7 (1.0)	7834.8 (2.3)
177.4 (90.2)	145.8 70.6	1057.9 5.9	216.5 (<0.1)	1349.5 0.4	7989.6 (1.3)
180.8 42.2	148.9 3.3	1067.4 11.2	218.4 0.1	1385.3 0.5	
187.4 (<0.1)	157.4 2.4	1071.1 12.8	312.1 1.0	1402.8 0.8	1880s
203.7 4.6	171.6 0.8	1082.3 12.2	323.0 16.2	1435.7 4.6	2.6 (<0.1)
208.2 3.0	192.7 0.4	1085.2 2.7	332.6 1.0	1452.9 1.4	13.3 (<0.1)
221.3 5.1	197.4 2.8	1093.9 5.6	383.2 0.2	1457.5 3.7	16.0 (<0.1)
223.9 14.7	201.4 43.3	1101.4 5.9	385.2 0.2	1462.8 1.0	30.6 (1.8)
225.8 5.7	204.8 19.4	1106.6 5.9	390.3 0.2	1465.5 2.5	46.7 (0.8)
241.4 10.1	219.0 0.6	1134.7 6.7	402.9 (<0.1)	1483.1 0.4	53.4 (0.2)
252.8 3.7	225.9 10.9	1139.4 8.5	448.1 1.3	1530.6 0.8	63.6 (100.0)
255.2 10.4	227.5 2.5	1152.2 1.6	453.4 0.7	1549.3 1.4	65.1 (2.2)
258.3 46.1	230.6 0.6	1170.3 4.9	462.2 0.2	1561.9 0.6	68.0 (1.5)
262.6 4.9	253.4 5.2	1271.5 3.7	478.1 34.0	1574.9 1.8	72.1 (5.0)
277.8 10.4	257.2 1.6	1298.3 4.9	487.4 3.2	1601.7 0.5	74.9 (15.9)
298.5 14.2	264.1 1.0	1328.5 7.6	507.1 0.4	1610.1 1.6	85.3 (0.5)
299.8 30.4	272.9 50.1	1414.4 8.6	514.6 1.8	1619.1 0.4	87.5 (1.4)
306.1 6.3	276.4 2.8	2367.2 3.5	522.9 0.2	1652.8 0.6	89.9 (0.4)
313.8 19.6	287.1 1.6	2481.2 3.5	538.1 0.1	1670.0 0.7	92.4 (3.0)
315.9 11.8	289.9 11.6	2584.3 5.6	549.8 0.2	1688.4 0.3	92.5 (10.0)
323.1 (<0.1)	294.5 1.1	2708.8 4.2	566.9 0.4	1715.6 1.3	93.6 (2.6)
344.5 14.7	303.2 10.3	2727.6 2.5	574.1 (<0.1)	1785.2 0.7	94.2 (1.5)
348.7 10.8	330.9 2.5	2738.9 3.0	581.9 0.1	1795.1 0.5	102.5 (0.2)
355.4 8.2	354.8 7.4	2759.7 4.2	601.2 0.5	1801.8 3.2	102.7 (0.3)
384.9 19.6	376.6 9.3	2832.1 8.4	605.5 0.5	1853.8 0.6	105.9 (22.7)
395.9 (<0.1)	390.3 3.3	2849.8 6.6	623.9 3.4	1865.5 2.8	107.4 (3.3)
400.8 98.0	423.7 9.8	3099.0 4.2	633.2 45.9	1880.8 1.1	108.2 (0.2)
412.4 24.5	428.2 3.1	3114.8 8.5	635.0 29.0	1888.3 0.8	108.6 (<0.1)
421.4 15.7	467.4 4.2	3148.3 10.0	641.7 0.2	1904.6 0.8	111.6 (5.5)
427.1 (100.0)	473.8 4.2	3154.0 7.1	646.3 1.4	1930.7 0.7	112.1 (<0.1)
439.2 5.9	489.2 1.4	3193.7 6.1	652.7 0.1	1938.9 1.3	114.6 (1.3)
442.6 7.6	495.0 3.0	3207.1 4.4	667.1 0.2	1944.1 1.0	115.2 (3.4)
448.3 22.5	499.8 11.4	3225.5 8.4	672.6 2.1	1958.0 2.6	115.3 (0.3)
454.8 14.7	527.9 7.2	3266.9 3.7	698.4 0.2	1971.9 0.8	116.5 (<0.1)
462.5 9.7	531.1 11.5	3314.5 5.9	703.4 (<0.1)	2011.8 1.5	117.1 (0.2)
485.0 50.0	533.2 2.8	3376.2 4.7	708.4 0.3	2023.1 2.5	117.7 (0.3)
491.5 30.4	540.8 3.7	3423.3 2.8	718.8 0.3	2034.9 1.2	119.3 (0.4)
501.9 35.3	547.3 3.5	3443.3 4.6	726.9 0.2	2041.3 1.2	119.8 (<0.1)
511.3 (<0.1)	557.2 27.1	3452.9 6.4	746.9 0.4	2049.3 1.5	121.5 (0.3)
515.6 29.4	577.3 43.0	3469.4 20.1	764.8 (<0.1)	2059.8 0.7	123.3 (0.2)
522.0 66.7	588.7 4.7	3492.5 10.7	777.1 0.9	2069.6 0.6	123.4 (0.2)
536.3 14.7	611.6 11.0	3510.5 4.1	780.9 0.5	2084.4 0.5	125.8 (<0.1)
563.2 12.7	616.5 18.4	3529.7 8.3	786.8 0.1	2098.1 1.2	127.7 (3.3)
566.5 14.7	628.8 1.6	3534.3 9.9	789.7 0.3	2131.9 3.5	128.1 (<0.1)
576.2 20.6	635.6 4.0	3561.6 13.1	793.2 0.2	2145.2 1.6	128.6 (1.3)
587.0 52.0	640.9 3.7	3577.2 6.2	801.4 0.3	2155.2 0.9	130.0 (1.1)
590.5 16.7	647.6 4.7	3710.2 4.0	810.9 2.4	2192.7 0.8	130.8 (0.3)
610.4 38.2	656.3 10.4	3739.3 6.6	824.6 3.0	2214.8 2.0	131.1 (5.1)
622.8 21.6	658.1 17.5	3760.8 3.8	827.4 2.0	2246.3 0.7	131.7 (0.2)
636.5 (<0.1)	661.6 3.6	3774.8 3.4	829.7 7.6	2261.3 5.0	132.8 (1.6)
651.6 83.3	670.3 9.7	3804.9 2.4	845.2 1.8	2286.0 1.4	133.2 (0.2)
654.3 (<0.1)	676.9 1.3	3848.7 9.5	895.6 0.7	2306.7 1.1	135.3 (0.3)
664.3 (<0.1)	682.2 10.3	3862.8 (<0.1)	925.7 0.2	2336.4 0.9	135.5 (0.5)
665.9 29.4	706.6 9.8	3871.7 (<0.1)	931.6 5.9	2348.0 2.5	135.7 (0.2)
671.6 11.8	726.0 4.1	3884.8 (<0.1)	934.8 1.5	2364.9 1.1	137.5 (<0.1)
701.2 (<0.1)	738.7 8.4	3902.8 5.5	939.7 0.4	2394.0 1.0	138.7 (2.3)
711.7 (<0.1)	746.0 12.8	3920.5 4.0	951.5 0.2	2442.8 1.3	141.0 (1.8)
713.0 42.2	762.8 7.3	3932.2 (<0.1)	957.3 0.1	2461.1 1.5	141.2 (0.7)
716.6 18.6	782.4 26.1	3965.1 5.1	961.5 (<0.1)	5526.8 1.2	141.8 (13.6)
725.7 (<0.1)	788.7 14.1	3980.3 (<0.1)	967.2 0.2	5537.9 0.2	142.7 (<0.1)
732.3 12.7	803.4 5.5	4018.2 3.4	971.3 0.2	5572.0 5.5	143.1 (1.1)
746.5 15.7	813.6 9.1	4073.2 (<0.1)	980.0 0.3	5622.7 0.8	144.2 (0.6)
776.5 27.5	815.8 21.0	4083.8 6.0	987.6 2.1	5647.7 2.4	145.2 (3.4)
785.8 33.3	832.2 9.9	4118.8 3.5	1000.3 0.4	5701.3 3.3	145.7 (5.8)
801.5 15.7	840.2 31.1	4136.1 4.0	1017.8 1.6	5774.2 0.8	146.6 (<0.1)
822.2 21.6	848.8 10.8	4158.4 5.6	1036.2 0.2	5793.8 0.6	147.0 (<0.1)
835.7 29.4	852.2 7.5	4249.6 21.7	1042.1 0.5	5819.9 0.6	147.5 (0.3)
860.0 18.6	861.4 7.9	4331.9 7.6	1056.4 0.2	5890.0 0.4	149.6 (<0.1)
935.1 (<0.1)	863.8 7.1	4384.6 10.5	1071.1 0.9	5920.2 3.7	151.0 (2.9)
977.6 14.7	866.8 13.2	4447.6 9.6	1074.2 0.3	5958.1 0.2	151.1 (1.0)
981.9 26.5	872.9 7.5	4491.2 4.2	1096.4 1.5	5965.4 0.8	152.6 (0.2)
1013.3 52.9	877.8 8.3	4557.6 7.6	1132.3 0.9	6021.7 0.6	153.2 (<0.1)
1037.6 (<0.1)	881.7 9.2	4575.1 17.7	1142.3 0.9	6031.0 1.0	153.7 (<0.1)
1102.3 (<0.1)	891.6 19.5	4580.0 0.4	1147.7 0.7	6111.3 0.6	154.1 (<0.1)
1112.0 (<0.1)	909.4 18.8	4627.1 25.5	1149.7 5.9	6145.7 1.4	156.0 (0.9)
	914.0 5.6	4630.0 0.7	1164.6 0.2	6165.7 0.2	156.4 (6.1)
	932.8 2.9	4650.1 8.0	1174.5 2.1	6181.0 1.2	157.2 (3.7)
	936.6 2.8	4684.8 29.6	1192.3 2.2	6225.5 0.4	158.3 (0.4)
1870s	940.9 2.8	4690.0 0.7	1209.7 4.0	6242.8 0.4	158.7 (0.7)
47.2 (1.4)	979.6 8.7	5260.0 2.8	1228.9 0.4	6258.7 0.3	159.2 (1.8)
59.2 (<0.1)	989.6 3.3	5261.8 (100.0)	1239.4 0.6	6285.6 0.2	161.1 (0.9)
77.4 (2.5)	1003.1 (1.8)	5320.0 (2.1)	1302.0 0.9	6368.0 0.3	161.9 (<0.1)
89.4 (0.9)	1007.6 4.2	5320.9 (70.6)	1304.3 1.5	6511.0 0.2	162.4 (0.4)
98.6 (0.2)	1012.3 7.1	5466.5 (2.6)	1307.7 1.8	6532.9 0.9	163.2 (0.3)
101.8 1.6	1018.3 5.6		1313.9 0.3	6685.8 0.2	163.6 (<0.1)
124.3 (2.8)	1027.1 4.2		1322.8 3.1	6903.8 0.7	165.2 (<0.1)
127.6 (7.8)	1033.2 (1.6)	1880s	1332.1 2.6	7358.9 1.3	166.7 (0.4)
129.1 1.1		155.0 (100.0)			

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_\gamma(\text{keV})$ ($\chi_{1\gamma}$)	$E_\gamma(\text{keV})$ ($\chi_{1\gamma}$)	$E_\gamma(\text{keV})$ ($\chi_{1\gamma}$)	$E_\gamma(\text{keV})$ ($\chi_{1\gamma}$)	$E_\gamma(\text{keV})$ ($\chi_{1\gamma}$)	$E_\gamma(\text{keV})$ ($\chi_{1\gamma}$)
188Re (cont.)					
167.3 (17.7)	266.8 (0.7)	449.8 (3.0)	5371.9 (1.1)	877.7 (1.1)	1680.6 (3.0)
167.9 (0.6)	269.0 (<0.1)	454.2 (1.5)	5389.5 (<0.1)	887.9 (<0.1)	1684.8 (<0.1)
169.5 (0.8)	271.1 (0.4)	455.5 (1.5)	5401.2 (<0.1)	888.4 (<0.1)	1700.0 (<0.1)
169.8 (0.3)	272.3 (<0.1)	456.5 (1.5)	5409.5 (0.2)	903.6 (0.3)	1715.2 (1.8)
170.8 (0.5)	273.6 (0.7)	460.0 (1.0)	5432.2 (<0.1)	919.6 (0.8)	1720.1 (<0.1)
171.0 (0.3)	274.3 (11.8)	463.6 (0.6)	5439.6 (0.9)	927.9 (4.4)	1723.9 (<0.1)
171.2 (0.2)	275.5 (8.2)	466.4 (1.0)	5509.0 (0.4)	932.9 (0.3)	1731.6 (1.0)
172.3 (0.2)	276.8 (0.7)	469.3 (1.1)	5518.1 (0.2)	939.3 (0.2)	1746.8 (<0.1)
173.0 (0.9)	278.0 (0.7)	473.1 (0.5)	5528.4 (<0.1)	948.9 (<0.1)	1754.9 (<0.1)
174.7 (<0.1)	278.4 (<0.1)	474.8 (2.5)	5545.9 (1.6)	951.8 (0.3)	1765.9 (<0.1)
175.3 (<0.1)	280.3 (<0.1)	479.9 (0.5)	5554.8 (1.8)	955.1 (0.4)	1770.5 (1.2)
176.3 (0.3)	280.8 (<0.1)	482.1 (0.3)	5571.5 (0.5)	976.6 (0.2)	1797.1 (0.4)
177.1 (0.8)	281.1 (<0.1)	486.1 (0.5)	5580.9 (0.5)	987.3 (2.2)	1807.7 (0.4)
178.1 (3.1)	282.2 (0.2)	487.2 (0.3)	5584.2 (<0.1)	1001.0 (0.1)	1822.1 (0.5)
178.8 (1.2)	283.0 (<0.1)	491.3 (0.9)	5614.7 (1.8)	1011.0 (1.0)	1836.1 (0.5)
180.6 (0.4)	283.7 (<0.1)	493.0 (1.6)	5640.7 (0.4)	1018.6 (<0.1)	1838.8 (0.8)
181.6 (0.5)	284.6 (3.3)	496.4 (0.3)	5666.3 (0.5)	1021.0 (<0.1)	1847.5 (<0.1)
181.9 (4.4)	285.5 (0.3)	499.3 (1.8)	5688.8 (2.1)	1025.1 (<0.1)	1859.9 (0.5)
183.0 (0.3)	286.7 (0.3)	500.7 (1.3)	5702.1 (2.4)	1036.0 (0.4)	1883.9 (1.6)
184.3 (<0.1)	287.9 (1.2)	504.3 (0.5)	5715.5 (1.0)	1037.6 (<0.1)	1886.9 (<0.1)
185.6 (0.8)	290.7 (58.2)	507.5 (1.2)	5807.8 (0.4)	1057.8 (0.8)	1898.8 (0.4)
186.7 (0.2)	291.5 (11.4)	518.6 (2.3)	5871.6 (6.6)	1068.0 (0.5)	1908.9 (<0.1)
187.8 (0.6)	293.8 (0.9)	522.5 (1.0)		1085.2 (0.3)	1918.3 (0.5)
188.8 (11.8)	297.8 (0.3)	524.1 (1.0)		1088.5 (0.2)	1925.4 (0.5)
189.3 (0.3)	299.1 (1.8)	525.7 (0.6)		1103.1 (1.3)	1931.7 (0.9)
189.3 (0.3)	300.2 (11.8)	529.2 (0.5)	182.0 (1.2)	1114.7 (2.3)	1938.9 (0.5)
190.0 (1.3)	306.1 (0.3)	537.4 (1.0)	186.7 (100.0)	1117.7 (1.8)	1942.5 (0.6)
190.4 (2.0)	308.4 (0.9)	543.0 (1.1)	197.7 (2.6)	1125.7 (0.2)	1949.2 (0.5)
190.8 (0.2)	310.1 (0.2)	548.9 (1.5)	203.1 (0.3)	1131.2 (0.5)	1964.9 (0.8)
191.6 (0.2)	310.9 (<0.1)	554.4 (2.5)	208.1 (0.4)	1141.8 (0.3)	1971.9 (0.4)
191.7 (0.2)	312.7 (1.5)	557.3 (1.5)	223.8 (1.9)	1147.3 (<0.1)	1988.6 (<0.1)
192.5 (<0.1)	317.3 (1.0)	560.8 (0.7)	228.9 (0.2)	1150.4 (<0.1)	1995.0 (<0.1)
193.4 (5.5)	318.4 (2.1)	565.8 (2.2)	288.6 (<0.1)	1154.4 (1.3)	2005.3 (0.7)
196.4 (0.9)	320.9 (1.8)	578.0 (1.1)	312.0 (0.3)	1163.8 (0.3)	2010.0 (<0.1)
197.2 (0.2)	322.8 (0.4)	580.5 (3.4)	321.2 (1.0)	1177.1 (<0.1)	2011.3 (0.9)
197.5 (0.2)	323.9 (0.4)	586.7 (1.4)	353.9 (1.0)	1174.6 (1.7)	2023.3 (1.3)
199.5 (12.3)	325.5 (1.2)	596.0 (1.7)	358.7 (1.5)	1195.8 (3.0)	2031.0 (<0.1)
201.6 (<0.1)	328.4 (0.5)	599.9 (1.7)	361.1 (21.7)	1200.0 (0.5)	2051.9 (0.7)
202.0 (<0.1)	330.3 (0.5)	602.6 (3.6)	371.3 (26.1)	1203.9 (<0.1)	2075.0 (1.6)
202.6 (0.5)	333.5 (0.5)	609.2 (6.5)	380.1 (0.3)	1214.7 (0.4)	2085.1 (<0.1)
205.3 (5.2)	335.6 (1.3)	615.7 (1.8)	397.4 (4.4)	1219.5 (<0.1)	2096.7 (<0.1)
206.0 (<0.1)	337.4 (1.3)	626.6 (5.8)	407.2 (2.7)	1228.4 (0.2)	2103.6 (<0.1)
206.7 (0.6)	338.2 (4.5)	646.6 (2.0)	407.5 (2.9)	1236.3 (0.6)	2111.1 (1.5)
207.8 (54.5)	340.3 (0.4)	662.9 (4.2)	416.1 (<0.1)	1249.2 (1.6)	2118.9 (<0.1)
208.8 (11.8)	341.7 (1.5)	666.0 (2.1)	420.8 (0.2)	1254.7 (1.8)	2141.3 (<0.1)
211.5 (3.3)	343.7 (0.3)	673.0 (2.1)	424.0 (<0.1)	1265.7 (2.0)	2143.6 (1.2)
213.3 (<0.1)	344.7 (0.5)	676.2 (1.4)	431.6 (1.6)	1285.2 (0.3)	2162.1 (<0.1)
214.1 (0.2)	346.2 (0.4)	684.2 (2.8)	441.7 (0.2)	1301.0 (1.6)	2183.4 (<0.1)
216.0 (3.3)	346.7 (0.5)	694.1 (2.3)	447.8 (1.0)	1311.5 (1.4)	2192.1 (1.5)
217.1 (2.5)	348.6 (0.5)	701.4 (3.8)	456.1 (0.2)	1315.0 (0.4)	2202.9 (<0.1)
218.3 (0.3)	352.1 (2.3)	709.6 (1.9)	477.0 (<0.1)	1327.1 (0.3)	2211.9 (1.3)
218.8 (0.2)	354.4 (1.5)	714.8 (3.9)	481.0 (0.2)	1342.4 (0.5)	2228.9 (<0.1)
219.4 (7.8)	358.8 (2.7)	725.7 (1.5)	490.7 (0.3)	1350.4 (<0.1)	2241.9 (0.9)
221.4 (0.3)	360.4 (1.7)	744.2 (3.1)	502.6 (0.4)	1353.0 (<0.1)	2254.8 (0.5)
223.0 (0.3)	362.7 (8.5)	794.9 (4.8)	518.4 (0.7)	1360.3 (1.4)	2261.5 (1.5)
223.6 (1.0)	363.0 (1.6)	829.2 (5.8)	524.0 (0.5)	1368.9 (<0.1)	2267.8 (<0.1)
224.6 (0.2)	369.0 (0.5)	888.6 (1.9)	547.8 (0.5)	1377.7 (1.1)	2282.0 (<0.1)
225.1 (0.2)	370.6 (0.7)	4893.4 (1.0)	558.0 (38.9)	1383.6 (1.2)	2288.3 (1.0)
225.9 (<0.1)	372.2 (1.3)	4916.3 (0.9)	569.3 (32.1)	1387.4 (0.3)	2297.1 (0.7)
227.1 (27.3)	374.3 (1.0)	4927.2 (0.5)	574.6 (0.2)	1396.9 (0.5)	2304.5 (<0.1)
228.6 (0.5)	375.5 (6.0)	4958.7 (1.6)	605.3 (4.9)	1412.6 (0.6)	2316.0 (<0.1)
229.6 (0.2)	376.8 (1.0)	4973.1 (1.8)	614.8 (<0.1)	1429.4 (1.5)	2327.7 (<0.1)
230.8 (0.2)	379.2 (0.6)	4987.9 (2.0)	630.9 (2.8)	1437.0 (2.0)	2359.6 (<0.1)
231.9 (0.4)	381.8 (0.5)	5000.8 (2.1)	638.0 (0.4)	1452.7 (0.4)	2370.8 (0.9)
232.4 (1.2)	386.2 (2.6)	5012.7 (4.1)	655.8 (0.4)	1462.7 (0.5)	2376.9 (0.7)
233.3 (0.3)	389.5 (2.0)	5020.6 (1.2)	679.8 (0.9)	1467.5 (<0.1)	2393.0 (<0.1)
234.4 (0.4)	394.1 (0.6)	5040.1 (0.5)	691.0 (0.3)	1482.4 (0.4)	2405.5 (0.7)
235.9 (0.9)	396.6 (0.3)	5049.3 (1.9)	708.6 (0.4)	1489.2 (1.5)	2417.4 (0.6)
236.6 (20.9)	400.0 (0.5)	5062.8 (0.5)	725.1 (3.2)	1493.2 (0.6)	2443.4 (0.9)
238.4 (1.7)	401.2 (0.7)	5073.2 (7.3)	731.4 (<0.1)	1502.1 (0.5)	2454.3 (<0.1)
240.3 (0.5)	403.8 (0.6)	5080.3 (1.2)	740.3 (<0.1)	1512.0 (1.4)	2476.3 (1.0)
240.4 (0.3)	406.5 (3.4)	5088.6 (0.3)	744.5 (<0.1)	1536.0 (<0.1)	5315.5 (1.6)
241.3 (0.5)	410.6 (0.6)	5117.1 (0.9)	747.9 (<0.1)	1540.5 (<0.1)	5324.7 (<0.1)
241.9 (0.4)	413.9 (1.4)	5126.3 (0.3)	753.6 (0.1)	1546.3 (2.3)	5409.5 (0.6)
245.1 (0.4)	420.2 (0.9)	5134.8 (3.0)	755.9 (0.9)	1557.6 (<0.1)	5444.8 (0.7)
246.3 (0.7)	423.6 (1.5)	5148.9 (0.4)	768.7 (1.7)	1561.0 (<0.1)	5478.2 (<0.1)
247.1 (0.7)	426.0 (1.9)	5167.6 (1.6)	782.4 (<0.1)	1567.0 (0.8)	5486.1 (<0.1)
248.7 (<0.1)	426.7 (1.2)	5191.8 (0.5)	787.4 (0.1)	1571.5 (0.6)	5502.0 (0.7)
251.2 (13.4)	428.8 (1.5)	5224.5 (1.5)	812.7 (0.2)	1577.6 (<0.1)	5529.0 (2.1)
253.0 (0.9)	431.6 (2.3)	5242.8 (0.7)	818.3 (0.1)	1595.2 (<0.1)	5568.5 (<0.1)
256.9 (11.8)	432.3 (1.3)	5263.2 (<0.1)	823.1 (<0.1)	1600.9 (0.6)	5580.9 (<0.1)
258.6 (0.2)	434.2 (0.9)	5289.8 (<0.1)	828.9 (2.5)	1616.1 (1.8)	5593.7 (<0.1)
260.2 (<0.1)	437.7 (2.6)	5296.5 (0.2)	831.9 (0.3)	1626.7 (0.4)	5599.6 (1.1)
262.8 (1.1)	439.7 (1.2)	5313.3 (0.7)	839.0 (0.7)	1637.2 (0.3)	5616.7 (<0.1)
263.7 (0.3)	441.0 (1.0)	5314.8 (0.3)	851.7 (<0.1)	1640.5 (0.4)	5638.4 (<0.1)
264.8 (0.2)	441.1 (2.6)	5348.7 (3.5)	859.9 (0.2)	1665.8 (<0.1)	5680.9 (2.0)
266.2 (1.0)	444.2 (1.3)	5359.7 (0.3)	863.8 (<0.1)	1672.5 (2.6)	5720.7 (1.3)

Table II. CAPTURE γ 's - nuclide sorted (cont.)

E _γ (keV) (X ₁ Y)	E _γ (keV) (X ₁ Y)	E _γ (keV) (X ₁ Y)	E _γ (keV) (X ₁ Y)	E _γ (keV) (X ₁ Y)	E _γ (keV) (X ₁ Y)	
1900s (cont.)						
5744.8 (<0.1)	4221.4 (5.9)	569.4 (1.4)	112.2 (45.0)	459.5 (65.0)	4826.3 (2.3)	
5749.7 (1.2)	4257.5 (2.6)	582.4 (1.0)	115.3 (9.5)	464.4 (7.2)	4838.7 (3.6)	
5781.9 (1.1)	4293.0 (2.2)	584.7 (0.6)	117.5 (9.8)	466.6 (18.0)	4854 (2.5)	
5797.2 (0.9)	4382.5 (6.7)	606.5 (0.8)	123.8 (20.0)	471.6 (16.0)	4872.7 (0.9)	
5821.4 (<0.1)	4401.5 (2.0)	618.9 (1.4)	126.9 (3.3)	477.5 (7.0)	4888.2 (0.8)	
5850.2 (0.5)	4435.0 (1.6)	635.8 (1.7)	132.8 (5.4)	478.4 (7.0)	4921.1 (1.2)	
5873.8 (1.4)	4452.0 (1.0)	636.3 (1.2)	138.6 (24.0)	483.0 (6.2)	4930.7 (1.6)	
5881.2 (1.6)	4459.8 (5.1)	649.6 (0.5)	143.3 (25.0)	487.1 (35.0)	4952.3 (0.8)	
5932.2 (6.2)	4515.2 (1.1)	655.6 (0.9)	148.7 (52.0)	490.7 (4.8)	4969.0 (0.8)	
5968.8 (0.5)	4556.1 (8.3)	667.8 (0.9)	152.5 (30.0)	495.3 (17.0)	4977.6 (0.8)	
6058.5 (1.0)	4665.0 (2.0)	709.2 (3.6)	160.7 (28.0)	499.5 (23.0)	4993.2 (0.6)	
6112.3 (0.9)	4963.3 (1.4)	714.2 (0.4)	162.6 (8.4)	506.2 (14.0)	5006.5 (1.6)	
6222.7 (<0.1)	5010.2 (8.1)	722.6 (0.6)	165.4 (26.0)	514.5 (14.0)	5013.9 (2.0)	
6246.5 (2.0)	5037.7 (10.1)	734.8 (0.2)	166.3 (<0.1)	518.7 (15.0)	5028.1 (4.5)	
6356.6 (1.1)	5121.4 (1.8)	735.1 (0.6)	169.5 (14.0)	520.5 (6.5)	5058.4 (0.6)	
6408.7 (1.7)	5147.1 (100.0)	743.5 (0.6)	172.1 (2.5)	530.9 (10.0)	5071.4 (3.7)	
6677.4 (0.3)	5250.2 (5.3)	746.8 (1.4)	176.1 (7.2)	536.2 (6.2)	5091.2 (1.0)	
7035.6 (0.8)	5271.1 (16.2)	749.2 (0.3)	180.8 (9.6)	547.2 (18.0)	5097.5 (0.4)	
7234.3 (3.2)	5341.6 (19.7)	786.0 (2.8)	184.3 (35.0)	551.9 (6.4)	5108.2 (1.8)	
7605.9 (0.9)	5617.1 (1.5)	786.8 (3.9)	188.2 (2.3)	556.0 (4.6)	5116.2 (0.3)	
7792.8 (2.5)	5674.6 (8.1)	788.5 (2.2)	195.0 (16.0)	557.8 (6.8)	5128.4 (1.8)	
	5684.6 (43.1)	815.7 (0.6)	198.7 (5.7)	569.6 (8.0)	5145.3 (0.5)	
		816.6 (0.7)	202.1 (3.7)	575.6 (16.0)	5158.1 (2.2)	
		825.7 (2.0)	204.3 (3.4)	580.5 (6.3)	5169.0 (0.6)	
1910s						
57.5 (18.8)	41.5 (14.2)	830.5 (1.0)	208.7 (5.2)	589.3 (15.0)	5178.2 (1.9)	
67.6 (2.7)	84.9 (2.2)	831.4 (1.5)	212.2 (6.2)	600.5 (20.0)	5184.9 (2.0)	
138.5 (5.7)	91.9 (1.3)	832.5 (1.4)	216.7 (6.1)	606.6 (6.3)	5192.2 (1.3)	
175.5 (34.2)	102.7 (9.3)	847.3 (2.5)	224.2 (<0.1)	610.8 (17.0)	5204.9 (0.5)	
194.4 (3.8)	109.8 (0.4)	850.9 (0.6)	228.0 (<0.1)	615.6 (8.0)	5231.7 (1.0)	
229.8 (11.9)	123.8 (0.5)	884.0 (0.6)	231.7 (<0.1)	623.0 (12.0)	5262.8 (4.4)	
235.0 (29.2)	127.9 (1.2)	888.6 (1.2)	234.9 (26.0)	625.8 (5.6)	5280.8 (1.3)	
240.5 (20.0)	131.1 (13.3)	889.5 (4.6)	239.0 (11.0)	636.0 (8.4)	5291.6 (1.1)	
272.8 (47.9)	145.5 (0.6)	910.9 (6.1)	241.4 (10.0)	640.2 (8.7)	5300.7 (0.5)	
275.4 (22.0)	148.7 (1.4)	924.7 (0.9)	245.6 (26.0)	662.1 (9.8)	5308.3 (0.4)	
304.4 (15.5)	160.1 (0.5)	951.2 (15.7)	248.7 (16.0)	666.9 (5.4)	5316.9 (2.4)	
315.4 (10.5)	165.2 (0.4)	982.3 (4.9)	250.0 (8.5)	679.1 (5.0)	5345.0 (1.7)	
329.1 (3.3)	192.4 (0.1)	983.1 (4.9)	252.2 (11.0)	683.2 (10.0)	5358.2 (5.9)	
332.6 (9.0)	193.0 (0.6)	984.0 (3.8)	255.0 (14.0)	687.3 (8.0)	5368.5 (1.1)	
339.5 (10.7)	195.6 (0.1)	1129.5 (2.8)	259.4 (4.1)	692.1 (12.0)	5376.7 (0.7)	
345.1 (6.6)	199.5 (0.3)	1200.7 (9.9)	262.0 (9.7)	698.9 (13.0)	5389.0 (1.0)	
348.8 (11.6)	201.1 (5.9)	3340.9 (20.6)	264.9 (39.0)	709.1 (22.0)	5398.0 (0.5)	
353.7 (32.9)	203.1 (0.4)	3363.5 (8.7)	267.7 (10.0)	713.2 (8.4)	5406.0 (0.5)	
365.6 (23.5)	204.3 (24.4)	3393.6 (9.9)	271.8 (25.0)	717.9 (10.0)	5413.0 (0.2)	
371.3 (2.3)	207.8 (0.1)	3452.3 (6.4)	275.3 (28.0)	762.2 (10.0)	5426.5 (0.9)	
386.2 (1.7)	208.5 (1.2)	3485.5 (5.2)	278.4 (92.0)	785.9 (8.7)	5467.4 (6.7)	
403.2 (9.9)	221.9 (0.2)	3493.6 (4.9)	284.4 (4.8)	797.5 (6.7)	5475.4 (0.9)	
413.0 (16.8)	222.8 (3.1)	3506.6 (10.4)	289.5 (5.6)	805.7 (12.0)	5488.0 (5.0)	
423.8 (7.0)	233.9 (0.2)	3519.7 (9.6)	290.7 (4.9)	809.8 (12.0)	5518.9 (2.6)	
433.7 (5.9)	234.2 (0.5)	3535.3 (6.4)	294.5 (25.0)	825.5 (5.7)	5565.5 (2.6)	
442.4 (3.1)	237.5 (2.1)	3668.8 (12.5)	300.8 (5.2)	830.2 (7.9)	5577.6 (1.6)	
462.5 (3.3)	241.1 (0.2)	3735.3 (4.6)	302.1 (5.2)	4364.3 (1.2)	5630.9 (4.8)	
471.3 (2.1)	242.6 (8.1)	3745.0 (11.6)	304.6 (6.0)	4371.4 (1.2)	5643.7 (4.1)	
476.1 (4.5)	248.9 (0.7)	3753.3 (3.2)	306.2 (4.5)	4382.0 (0.3)	5676.4 (0.5)	
480.5 (3.3)	254.2 (6.0)	3798.7 (7.0)	309.1 (39.0)	4394.7 (0.7)	5729.1 (12.1)	
488.9 (1.8)	265.6 (29.0)	3818.6 (7.2)	310.9 (17.0)	4401.6 (1.0)	5749.0 (0.3)	
495.9 (3.2)	276.6 (0.6)	3900.8 (14.5)	314.3 (22.0)	4412.6 (0.5)	5757.8 (0.7)	
499.8 (8.2)	281.4 (6.8)	3980.6 (20.6)	324.7 (22.0)	4424.9 (0.6)	5788.4 (6.2)	
527.6 (50.3)	287.8 (0.1)	3992.8 (2.9)	331.1 (8.0)	4435.0 (0.6)	5812.9 (1.0)	
537.7 (18.6)	295.7 (3.8)	4053.4 (7.5)	334.5 (9.4)	4442.4 (1.2)	5822.1 (6.4)	
545.3 (4.7)	297.6 (0.7)	4059.7 (6.7)	337.7 (34.0)	4454.6 (1.2)	5871.5 (0.5)	
636.7 (3.9)	298.1 (0.3)	4069.0 (6.7)	340.8 (37.0)	4461.8 (0.8)	5882.7 (0.4)	
663.6 (6.5)	303.6 (0.4)	4082.1 (4.9)	344.3 (6.3)	4472.5 (1.5)	5906.3 (1.1)	
1293.4 (12.2)	307.1 (5.5)	4198.2 (9.9)	347.4 (4.5)	4487.4 (1.0)	5918.0 (3.4)	
3284.4 (3.6)	326.1 (1.2)	4225.1 (11.9)	354.0 (22.0)	4494.8 (2.2)	5927.4 (3.1)	
3298.2 (2.1)	327.5 (1.8)	4250.1 (7.0)	359.4 (5.7)	4505.3 (0.6)	5954.5 (8.7)	
3337.1 (2.8)	353.0 (0.6)	4295.5 (11.6)	360.6 (17.0)	4524.4 (0.9)	5982.8 (2.3)	
3391.8 (2.4)	357.5 (0.3)	4301.5 (6.1)	371.7 (100.0)	4546.0 (0.9)	6023.0 (1.9)	
3466.1 (4.0)	375.4 (0.5)	4366.7 (15.7)	378.9 (3.1)	4559.8 (0.5)	6066.1 (3.5)	
3559.5 (2.4)	382.5 (0.6)	4405.7 (17.1)	383.6 (16.0)	4577.3 (2.7)	105Pt	
3571.7 (7.2)	382.9 (2.7)	4413.5 (20.0)	388.7 (4.3)	4584.6 (1.9)	5910.5	
3662.6 (2.2)	392.0 (0.7)	4430.7 (67.2)	391.2 (24.0)	4599.8 (1.2)	6109.0	
3675.2 (5.7)	393.5 (5.9)	4694.9 (21.2)	394.1 (5.6)	4612.5 (2.4)	100Pt	
3776.4 (4.5)	399.0 (5.7)	5276.0 (100.0)	396.6 (7.9)	4621.0 (0.8)	190.0 (<0.1)	
3787.3 (7.1)	400.9 (0.6)	5348.3 (3.2)	400.9 (6.2)	4627.4 (0.5)	200.0 (<0.1)	
3815.1 (10.3)	401.4 (0.8)	5481.0 (4.3)	404.1 (5.8)	4642.7 (4.5)	241.2 (0.8)	
3827.9 (1.7)	405.7 (0.4)	5542.0 (5.2)	407.4 (10.0)	4665.8 (0.5)	252.1 (0.7)	
3838.5 (1.0)	413.5 (0.4)	5583.3 (67.8)	410.3 (7.4)	4677.6 (1.3)	326.0 (<0.1)	
3857.4 (1.6)	414.3 (1.3)	1941r		414.5 (34.0)	333.3 (57.6)	
3939.9 (1.7)	432.5 (0.3)	43.2 (<0.1)	418.2 (24.0)	4689.1 (<0.1)	356.1 (100.0)	
3953.7 (3.9)	435.0 (2.6)	81.9 (5.3)	420.8 (3.7)	4698.1 (0.2)	430.4 (0.8)	
4063.2 (2.4)	441.0 (0.3)	84.3 (25.0)	424.7 (5.7)	4713.9 (0.5)	446.0 (<0.1)	
4103.8 (2.7)	441.8 (0.7)	87.9 (4.1)	430.0 (3.4)	4734.5 (0.7)	481.9 (0.9)	
4129.0 (2.0)	455.8 (3.4)	93.2 (5.3)	436.1 (8.8)	4742.9 (0.7)	521.0 (<0.1)	
4137.0 (2.5)	471.7 (0.6)	95.5 (11.0)	440.3 (12.0)	4753.4 (5.1)	558.4 (2.7)	
4160.9 (1.5)	517.2 (2.3)	100.2 (2.3)	447.0 (4.6)	4778.7 (0.2)		
4186.1 (2.8)	544.5 (2.5)	109.3 (4.8)	451.8 (4.1)	4785.2 (0.7)		
4206.6 (2.0)	560.9 (0.6)		453.9 (6.5)	4794.7 (0.9)		
				4807.3 (2.3)		

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_{\gamma}(\text{keV})$ (λ_{γ})	$E_{\gamma}(\text{keV})$ (λ_{γ})	$E_{\gamma}(\text{keV})$ (λ_{γ})	$E_{\gamma}(\text{keV})$ (λ_{γ})	$E_{\gamma}(\text{keV})$ (λ_{γ})	$E_{\gamma}(\text{keV})$ (λ_{γ})
198Pt (cont.)					
575.0 (1.1)	3815.9 (0.1)	6319.1 (0.3)	145.1 (4.6)	268.9 (1.7)	365.9 (0.6)
596.7 (2.4)	3848.5 (0.1)	6518.8 (0.1)	146.3 (3.4)	269.4 (0.4)	366.1 (0.3)
673.2 (3.5)	3881.6 (0.3)	6560.4 (0.4)	146.6 (3.4)	270.5 (0.1)	366.1 (1.3)
689.0 (0.1)	3927.9 (0.3)	6783.0 (0.2)	148.5 (0.4)	271.0 (1.3)	370.9 (5.5)
696.5 (3.5)	3946.9 (0.7)	7232.9 (1.7)	153.9 (0.6)	271.7 (2.4)	372.9 (0.9)
725.0 (0.1)	3962.1 (0.4)	7565.6 (0.5)	154.7 (4.0)	272.4 (0.4)	373.2 (0.3)
779.8 (1.4)	3980.2 (0.1)	7920.9 (1.2)	156.5 (1.0)	273.1 (0.4)	373.6 (0.4)
986.0 (0.1)	4007.6 (0.4)		158.3 (20.6)	275.3 (0.4)	374.7 (0.2)
1048.2 (2.0)	4025.2 (0.7)	197Pt			
1091.8 (2.5)	4041.1 (0.2)	71.5 (82.2)	159.2 (0.9)	275.5 (0.2)	376.0 (0.1)
1246.0 (0.1)	4084.8 (0.7)	98.6 (28.0)	164.5 (0.6)	275.9 (2.6)	376.8 (0.9)
1358.4 (3.3)	4121.6 (0.3)	131.0 (10.3)	166.1 (4.1)	277.1 (3.0)	377.7 (0.8)
1404.0 (3.4)	4152.4 (0.2)	135.2 (23.4)	166.9 (0.3)	278.0 (0.4)	378.1 (2.2)
1491.3 (4.9)	4167.9 (0.4)	138.1 (17.8)	168.2 (58.2)	281.1 (0.1)	378.4 (0.3)
1629.8 (2.0)	4202.2 (0.1)	157.4 (2.2)	169.1 (0.9)	283.1 (0.3)	381.0 (40.4)
1645.1 (0.9)	4208.8 (0.4)	167.3 (9.2)	169.9 (2.0)	283.8 (0.4)	381.4 (1.3)
1654.1 (1.0)	4223.2 (0.2)	216.0 (10.3)	170.0 (18.4)	283.9 (1.7)	382.1 (0.5)
1676.8 (3.7)	4227.8 (0.2)	227.6 (3.7)	170.3 (4.5)	290.0 (0.1)	383.1 (3.1)
1695.9 (1.3)	4256.3 (0.4)	233.3 (3.5)	173.3 (0.4)	290.9 (0.2)	387.0 (0.3)
1713.2 (3.5)	4287.5 (0.4)	246.1 (8.3)	175.2 (1.1)	291.6 (14.9)	389.2 (0.2)
1733.7 (1.6)	4312.2 (0.8)	259.3 (2.2)	175.8 (0.2)	292.0 (0.3)	391.1 (0.6)
1803.7 (4.8)	4342.7 (0.5)	269.1 (55.1)	177.7 (0.7)	293.0 (1.1)	393.7 (2.8)
1826.3 (3.2)	4368.0 (1.7)	274.1 (27.1)	180.2 (0.7)	293.3 (0.3)	393.8 (0.4)
1875.6 (0.9)	4401.5 (0.5)	299.3 (17.8)	180.8 (7.1)	294.1 (0.2)	395.5 (0.8)
1889.3 (2.3)	4416.1 (0.2)	346.5 (0.1)	180.9 (0.4)	295.8 (0.1)	395.9 (0.3)
1913.5 (1.1)	4431.9 (0.3)	371.5 (2.4)	182.1 (0.3)	296.3 (0.2)	398.1 (0.7)
1971.2 (3.4)	4442.4 (0.2)	390.4 (3.3)	184.9 (0.3)	297.6 (0.7)	398.4 (0.6)
1978.7 (4.9)	4453.8 (0.2)	404.0 (1.6)	185.8 (0.5)	298.4 (0.3)	400.5 (0.3)
2041.1 (1.2)	4477.3 (0.3)	439.3 (6.4)	188.1 (7.0)	299.0 (0.2)	402.9 (0.5)
2067.8 (3.7)	4513.3 (0.6)	441.8 (8.1)	190.5 (0.3)	300.7 (0.1)	403.2 (2.7)
2115.6 (0.7)	4546.2 (0.3)	453.7 (1.8)	190.9 (0.2)	301.2 (0.1)	404.2 (0.4)
2150.3 (1.1)	4557.3 (0.1)	456.8 (16.8)	191.1 (2.1)	302.5 (0.2)	405.8 (0.4)
2184.0 (2.1)	4584.0 (0.1)	502.4 (29.0)	192.3 (41.8)	304.2 (0.2)	413.1 (0.7)
2187.9 (0.8)	4614.6 (0.4)	517.1 (18.7)	192.8 (19.9)	306.0 (0.7)	413.3 (0.9)
2311.4 (5.1)	4634.5 (0.5)	523.8 (10.3)	194.2 (0.4)	307.5 (6.4)	414.6 (0.4)
2334.8 (0.7)	4677.4 (0.1)	527.2 (2.5)	197.1 (0.1)	311.7 (6.8)	418.1 (0.5)
2344.1 (0.4)	4693.4 (0.5)	542.2 (10.3)	200.9 (0.3)	312.7 (0.2)	418.6 (8.9)
2376.0 (0.9)	4709.0 (0.9)	558.4 (15.0)	201.9 (1.1)	312.9 (0.5)	419.0 (0.9)
2393.2 (1.6)	4729.5 (0.5)	570.7 (1.9)	202.8 (0.3)	313.0 (0.1)	421.3 (0.2)
2429.1 (1.0)	4746.7 (0.3)	578.3 (7.7)	202.9 (2.9)	313.7 (0.1)	422.8 (0.3)
2445.3 (0.6)	4767.9 (0.5)	595.2 (5.5)	204.0 (7.0)	314.0 (0.3)	423.9 (0.6)
2469.6 (4.1)	4791.8 (0.7)	620.1 (3.6)	206.1 (2.6)	314.7 (3.8)	424.8 (0.4)
2487.6 (0.4)	4816.4 (0.7)	625.5 (14.0)	208.2 (0.4)	315.1 (0.3)	426.4 (0.4)
2506.5 (0.6)	4839.6 (0.4)	636.7 (5.8)	212.9 (1.1)	316.8 (0.8)	432.4 (1.1)
2526.9 (1.9)	4858.6 (0.1)	649.2 (93.5)	214.7 (2.1)	317.1 (1.0)	432.7 (0.2)
2595.3 (0.3)	4882.4 (1.1)	658.7 (3.3)	214.8 (100.0)	318.4 (0.5)	433.1 (0.4)
2614.3 (1.1)	4899.4 (1.3)	676.1 (2.9)	215.2 (2.0)	319.4 (0.2)	436.3 (0.4)
2665.5 (0.4)	4947.6 (2.0)	695.0 (3.6)	215.4 (0.5)	320.9 (0.5)	436.9 (0.3)
2735.3 (1.1)	4970.7 (0.4)	701.9 (5.2)	217.9 (0.4)	324.7 (1.4)	437.5 (0.4)
2749.0 (1.1)	4989.9 (0.1)	708.3 (33.6)	218.7 (1.4)	325.1 (0.1)	439.3 (8.7)
2767.9 (0.4)	4995.2 (0.3)	4868.4 (16.8)	219.3 (5.2)	325.6 (1.2)	439.4 (0.9)
2798.4 (0.3)	5033.3 (0.1)	5098.5 (93.5)	220.3 (0.2)	327.0 (0.1)	439.9 (0.8)
2824.4 (2.2)	5046.6 (1.3)	5137.8 (15.9)	223.0 (0.4)	328.3 (21.3)	440.1 (12.3)
2857.3 (0.2)	5060.9 (0.5)	5344.0 (3.6)	224.2 (0.9)	328.6 (0.5)	440.8 (0.9)
2862.3 (0.3)	5078.1 (0.3)	5420.6 (5.8)	226.3 (0.4)	328.8 (0.3)	442.1 (0.5)
2876.0 (1.0)	5098.8 (2.8)	5577.2 (9.3)	227.7 (0.2)	332.5 (0.4)	442.8 (0.5)
2896.2 (0.6)	5116.8 (0.2)	5715.9 (7.7)	234.0 (0.9)	333.7 (1.6)	444.2 (7.2)
2928.3 (0.3)	5140.0 (0.1)	5747.8 (2.5)	234.5 (4.9)	333.8 (0.3)	444.5 (0.9)
2995.9 (0.2)	5173.4 (5.3)	5846.3 (100.0)	235.2 (0.1)	335.1 (0.5)	445.9 (0.7)
3022.6 (0.9)	5184.9 (2.4)		235.9 (44.0)	335.3 (0.6)	447.3 (0.5)
3041.5 (1.0)	5254.6 (14.3)	198Au			
3062.2 (0.3)	5307.0 (3.4)	35.8 (6.1)	236.0 (3.4)	336.1 (0.4)	448.3 (0.4)
3084.3 (0.2)	5393.2 (2.9)	55.2 (31.2)	237.5 (0.2)	337.3 (2.2)	449.3 (6.2)
3117.3 (0.3)	5417.2 (0.2)	66.4 (4.7)	238.9 (0.7)	339.2 (0.5)	453.0 (0.5)
3133.1 (0.5)	5432.6 (0.4)	75.2 (1.0)	239.5 (0.1)	339.4 (0.3)	453.6 (0.6)
3145.4 (0.3)	5451.3 (1.1)	77.1 (19.1)	241.5 (0.2)	340.0 (0.3)	454.7 (0.4)
3165.3 (0.3)	5499.6 (0.5)	83.1 (1.8)	242.6 (0.2)	341.5 (0.9)	455.9 (1.8)
3176.2 (0.4)	5546.7 (0.7)	91.0 (5.2)	243.2 (0.2)	342.1 (0.2)	456.1 (3.9)
3230.0 (0.3)	5576.7 (0.7)	97.2 (58.2)	246.9 (0.4)	343.4 (10.2)	457.4 (0.7)
3251.5 (0.6)	5611.4 (3.1)	99.3 (1.3)	247.4 (65.2)	344.0 (0.2)	457.8 (3.7)
3284.4 (0.2)	5661.0 (0.4)	101.4 (1.3)	247.8 (0.7)	345.0 (0.2)	458.1 (2.3)
3311.7 (0.5)	5676.7 (0.5)	101.9 (17.0)	248.6 (1.3)	346.2 (0.4)	460.1 (0.4)
3369.0 (0.2)	5692.8 (0.1)	103.5 (6.8)	249.6 (0.1)	346.7 (5.7)	461.4 (0.2)
3387.3 (0.1)	5721.1 (1.7)	104.1 (0.9)	250.0 (0.5)	347.7 (1.3)	466.2 (0.8)
3406.5 (0.2)	5738.5 (0.3)	106.9 (1.8)	252.8 (0.3)	349.9 (0.4)	468.7 (0.4)
3425.9 (0.6)	5759.3 (1.1)	108.8 (5.9)	255.7 (0.3)	350.6 (12.3)	469.1 (1.0)
3553.9 (0.3)	5795.7 (0.9)	113.4 (1.0)	256.7 (0.6)	351.6 (0.2)	471.7 (0.5)
3583.6 (0.6)	5829.3 (0.7)	121.0 (1.2)	258.2 (0.2)	354.9 (0.2)	472.2 (0.4)
3609.7 (0.5)	5874.5 (1.1)	123.1 (1.3)	259.3 (0.4)	355.9 (3.8)	473.7 (0.6)
3623.2 (0.2)	5935.1 (0.2)	125.3 (0.9)	260.7 (10.1)	355.9 (0.2)	474.9 (0.4)
3652.5 (0.2)	5952.8 (1.5)	132.8 (1.1)	261.3 (56.7)	359.5 (0.4)	476.2 (0.2)
3685.9 (0.8)	6003.9 (1.3)	135.5 (1.1)	262.4 (0.4)	360.2 (0.2)	480.0 (0.4)
3747.6 (0.4)	6033.5 (3.3)	137.7 (6.8)	262.6 (0.2)	360.7 (0.3)	481.7 (0.9)
3761.6 (0.3)	6074.1 (0.9)	142.2 (0.6)	263.9 (0.3)	361.7 (0.3)	483.0 (0.2)
3776.5 (0.4)	6097.5 (0.2)	142.8 (2.3)	264.1 (0.7)	362.3 (0.4)	484.3 (0.3)
3799.7 (0.3)	6224.2 (0.3)	144.5 (1.8)	266.5 (3.0)	362.7 (0.4)	485.3 (1.2)
			267.6 (0.9)	363.8 (1.2)	485.6 (0.6)
				365.4 (0.8)	487.2 (0.2)

Table II. CAPTURE γ 's - nuclide sorted (cont.)

E_{γ} (keV) (γ 17)	E_{γ} (keV) (γ 17)	E_{γ} (keV) (γ 17)	E_{γ} (keV) (γ 17)	E_{γ} (keV) (γ 17)	E_{γ} (keV) (γ 17)	E_{γ} (keV) (γ 17)	E_{γ} (keV) (γ 17)
100Au (cont.)							
487.7 (0.3)	672.3 (3.9)	499.1 (3.4)	589.8 (8.5)	278.9 (<0.1)	468.9 (<0.1)		
490.1 (0.5)	673.1 (1.0)	500.7 (0.6)	601.0 (7.8)	281.1 (<0.1)	471.2 (<0.1)		
490.6 (0.4)	674.6 (0.7)	502.4 (1.1)	603.6 (1.7)	281.9 (<0.1)	472.1 (<0.1)		
491.8 (0.9)	675.5 (1.8)	503.5 (2.1)	609.7 (1.4)	286.5 (<0.1)	475.1 (<0.1)		
498.1 (4.1)	678.8 (0.4)	504.2 (2.1)	628.1 (2.4)	287.2 (<0.1)	476.2 (0.2)		
498.6 (0.9)	679.9 (0.6)	505.3 (0.7)	664.5 (3.2)	289.4 (<0.1)	480.8 (<0.1)		
503.8 (0.8)	682.5 (0.4)	508.0 (2.7)	685.3 (3.2)	289.6 (<0.1)	482.3 (<0.1)		
503.3 (0.3)	686.6 (1.6)	510.3 (5.5)	706.4 (9.0)	298.8 (<0.1)	483.3 (<0.1)		
510.1 (2.1)	689.7 (2.7)	510.9 (9.6)	714.2 (3.2)	298.8 (<0.1)	483.4 (0.2)		
511.2 (7.9)	690.5 (0.5)	511.8 (1.7)	715.5 (2.4)	299.9 (<0.1)	486.4 (<0.1)		
512.3 (1.6)	693.3 (0.2)	514.1 (3.8)	735.3 (4.9)	302.0 (<0.1)	486.4 (<0.1)		
514.8 (1.3)	697.8 (1.0)	514.9 (5.1)	752.7 (7.3)	306.6 (<0.1)	487.6 (<0.1)		
515.8 (1.0)	698.6 (1.3)	515.3 (6.4)	755.0 (4.6)	308.5 (<0.1)	487.6 (<0.1)		
521.9 (0.5)	701.2 (3.5)	517.4 (1.7)	779.8 (9.0)	308.8 (<0.1)	491.7 (<0.1)		
524.3 (0.4)	709.3 (1.2)	520.6 (1.7)	786.4 (6.3)	309.8 (<0.1)	493.9 (0.3)		
524.8 (3.4)	710.1 (0.6)	521.7 (1.5)	819.6 (4.6)	312.6 (<0.1)	497.8 (<0.1)		
525.2 (0.5)	717.0 (0.6)	522.3 (4.7)	860.0 (10.7)	313.2 (<0.1)	498.6 (<0.1)		
525.6 (1.0)	722.9 (0.6)	524.4 (5.7)	869.0 (4.4)	316.2 (<0.1)	502.8 (<0.1)		
526.8 (2.0)	724.3 (0.8)	527.2 (4.0)	902.0 (13.4)	317.7 (<0.1)	505.2 (<0.1)		
528.6 (1.0)	729.5 (0.5)	527.9 (4.0)	924.3 (7.8)	318.0 (<0.1)	516.3 (<0.1)		
528.6 (2.0)	732.6 (0.4)	530.3 (2.2)	967.8 (29.8)	319.6 (<0.1)	517.1 (<0.1)		
530.1 (0.2)	733.4 (0.4)	534.6 (2.2)		321.5 (<0.1)	520.9 (<0.1)		
531.7 (0.2)	739.5 (3.0)	535.5 (3.6)	200H	322.6 (<0.1)	521.4 (<0.1)		
533.4 (1.3)	744.6 (1.2)	536.5 (2.3)	76.9 (0.2)	325.3 (<0.1)	532.5 (<0.1)		
537.8 (0.3)	744.6 (3.6)	538.7 (2.3)	83.6 (0.2)	329.3 (<0.1)	533.5 (<0.1)		
542.0 (1.5)	749.2 (1.6)	539.6 (2.5)	97.5 (0.2)	330.3 (<0.1)	534.5 (<0.1)		
542.1 (1.5)	750.0 (1.4)	541.8 (0.9)	99.8 (0.2)	330.8 (<0.1)	535.0 (<0.1)		
546.9 (0.3)	753.6 (1.3)	546.2 (1.3)	113.2 (<0.1)	331.3 (<0.1)	537.3 (<0.1)		
548.0 (0.3)	763.6 (1.1)	547.4 (2.3)	115.7 (<0.1)	337.5 (<0.1)	544.2 (<0.1)		
548.6 (0.6)	767.3 (0.4)	549.7 (8.9)	130.3 (<0.1)	338.8 (<0.1)	546.1 (<0.1)		
550.6 (4.8)	770.8 (1.3)	552.4 (4.7)	138.5 (<0.1)	340.0 (<0.1)	547.0 (<0.1)		
551.4 (4.8)	773.8 (0.4)	553.9 (1.9)	144.6 (<0.1)	342.2 (<0.1)	551.9 (<0.1)		
552.2 (1.0)	777.0 (1.7)	559.3 (4.6)	148.5 (<0.1)	342.9 (<0.1)	552.5 (<0.1)		
555.5 (1.3)	788.4 (0.7)	563.6 (3.8)	156.6 (<0.1)	346.4 (<0.1)	556.6 (<0.1)		
557.4 (3.8)	792.7 (0.5)	571.0 (12.6)	158.5 (<0.1)	346.4 (<0.1)	562.6 (<0.1)		
567.6 (5.0)	795.6 (0.4)	572.4 (1.6)	160.5 (<0.1)	352.1 (<0.1)	564.2 (<0.1)		
571.4 (5.0)	797.5 (1.4)	576.5 (1.0)	160.7 (<0.1)	353.1 (<0.1)	566.2 (<0.1)		
573.6 (2.1)	801.3 (1.0)	578.3 (2.7)	162.4 (<0.1)	355.4 (<0.1)	568.0 (<0.1)		
574.1 (1.5)	803.7 (1.0)	580.8 (2.7)	164.5 (<0.1)	359.5 (<0.1)	571.8 (<0.1)		
575.3 (2.5)	805.1 (0.4)	583.9 (3.3)	164.7 (<0.1)	363.7 (<0.1)	573.4 (<0.1)		
578.8 (0.2)	809.7 (1.6)	588.0 (3.3)	167.5 (<0.1)	367.9 (<0.1)	578.0 (<0.1)		
581.2 (0.2)	812.2 (0.9)	594.1 (1.1)	182.5 (<0.1)	376.7 (<0.1)	579.3 (2.4)		
583.8 (0.5)	822.6 (0.9)	610.6 (3.5)	182.7 (<0.1)	380.0 (<0.1)	583.0 (<0.1)		
584.4 (0.5)	825.4 (1.7)	614.5 (7.1)	183.9 (<0.1)	383.4 (<0.1)	585.2 (<0.1)		
588.1 (0.6)	831.4 (0.6)	616.5 (4.3)	186.8 (<0.1)	387.5 (<0.1)	587.0 (<0.1)		
590.9 (1.2)	834.9 (3.5)	625.2 (1.9)	190.2 (<0.1)	392.5 (<0.1)	589.0 (<0.1)		
593.8 (0.3)	835.9 (3.6)	626.4 (3.7)	197.3 (<0.1)	396.0 (<0.1)	596.1 (<0.1)		
601.9 (5.4)	837.5 (0.6)	627.6 (9.0)	201.3 (<0.1)	397.8 (<0.3)	597.4 (<0.1)		
609.1 (0.8)	852.5 (0.4)	632.0 (26.5)	203.0 (<0.1)	398.2 (<0.1)	598.3 (<0.1)		
610.5 (0.2)	854.1 (2.6)	632.0 (13.2)	203.1 (<0.1)	398.6 (<0.1)	599.9 (<0.1)		
612.4 (0.6)	868.3 (2.0)	651.3 (1.9)	203.5 (<0.1)	399.7 (<0.1)	599.9 (<0.1)		
612.9 (0.6)	876.8 (2.0)		204.6 (<0.1)	404.6 (<0.1)	600.8 (<0.1)		
615.4 (0.4)	878.8 (0.6)	100Au	206.1 (<0.1)	409.6 (<0.1)	601.5 (<0.1)		
615.5 (0.4)	885.1 (0.6)	55.2 (<0.1)	213.4 (<0.1)	409.6 (<0.1)	602.7 (<0.1)		
618.7 (0.6)	886.6 (0.7)	77.2 (2.3)	215.0 (<0.1)	414.5 (<0.1)	607.3 (<0.1)		
620.1 (0.4)	897.7 (1.1)	183.3 (24.1)	223.5 (<0.1)	415.5 (<0.1)	608.2 (<0.1)		
623.3 (0.6)	905.7 (1.3)	191.6 (14.9)	224.8 (<0.1)	423.2 (<0.2)	609.9 (<0.1)		
625.1 (3.7)	913.5 (1.1)	219.2 (2.2)	225.9 (<0.1)	427.8 (<0.1)	612.1 (0.2)		
630.5 (1.6)	916.0 (1.9)	225.8 (0.9)	227.6 (<0.1)	428.5 (<0.1)	613.6 (<0.1)		
633.4 (1.2)	938.9 (1.6)	236.3 (7.4)	235.5 (<0.1)	430.4 (<0.4)	615.8 (<0.1)		
634.8 (1.7)	953.3 (1.1)	246.3 (2.5)	243.4 (<0.1)	437.0 (<0.1)	623.5 (<0.1)		
635.6 (0.8)	971.0 (1.9)	278.1 (97.6)	245.2 (<0.1)	437.6 (<0.1)	628.2 (5.2)		
640.3 (5.0)	992.0 (2.1)	316.9 (9.0)	247.4 (<0.1)	443.7 (<0.1)	628.6 (<0.1)		
643.1 (0.4)	1036.2 (1.7)	323.5 (3.2)	248.3 (<0.1)	445.7 (<0.1)	631.5 (<0.1)		
643.9 (0.4)	4787.2 (8.2)	417.1 (1.1)	250.8 (<0.1)	445.7 (<0.1)	632.9 (<0.1)		
646.8 (1.4)	4800.7 (1.2)	425.1 (1.8)	252.0 (<0.1)	448.9 (<0.1)	634.7 (<0.1)		
649.8 (1.1)	4840.0 (0.4)	427.2 (1.0)	254.4 (<0.1)	452.3 (<0.1)	635.9 (<0.1)		
649.8 (0.9)	4854.0 (3.0)	465.6 (2.6)	255.0 (<0.1)	455.1 (<0.1)	636.2 (<0.1)		
653.7 (0.6)	4885.2 (2.7)	467.9 (4.6)	255.4 (<0.1)	458.1 (<0.1)	638.1 (<0.1)		
654.6 (1.6)	4887.5 (3.4)	474.5 (5.5)	268.2 (<0.1)	458.8 (<0.1)	638.5 (<0.1)		
655.1 (1.8)	4897.4 (3.0)	505.5 (100.0)	268.5 (<0.1)	460.8 (<0.1)	644.3 (<0.1)		
658.9 (0.9)	4905.5 (3.4)	521.0 (21.7)	270.5 (<0.1)	461.2 (<0.1)	644.9 (<0.1)		
661.2 (0.9)	4931.6 (1.8)	523.8 (3.0)	271.7 (<0.1)	464.2 (<0.1)	646.2 (<0.1)		
662.9 (0.4)	4940.3 (7.0)	542.7 (59.0)	272.1 (<0.1)	467.9 (<0.1)	649.2 (<0.1)		
663.2 (1.1)	4973.1 (0.6)	562.6 (7.6)	275.5 (<0.1)	468.7 (<0.1)	651.4 (<0.1)		
671.4 (0.5)	4980.5 (1.0)	586.3 (1.9)	278.3 (<0.1)		655.6 (<0.1)		

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	
200Hg (cont.)						
659.0 (0.1)	1034.9 (<0.1)	1754.6 (0.2)	2818.6 (1.0)	172.0 (0.1)	1810.3 (0.2)	
661.4 (6.9)	1038.0 (<0.1)	1759.3 (0.9)	2827.4 (0.2)	173.4 (<0.1)	1823.1 (0.4)	
674.3 (<0.1)	1042.4 (0.2)	1771.9 (0.2)	2831.8 (0.2)	185.8 (0.1)	1840.4 (2.6)	
676.2 (0.2)	1054.7 (<0.1)	1783.3 (0.1)	2847.3 (0.4)	198.2 (0.2)	1853.0 (0.6)	
677.4 (<0.1)	1059.6 (0.2)	1796.5 (0.2)	2853.8 (0.1)	207.8 (0.2)	1870.0 (0.2)	
681.9 (<0.1)	1070.0 (<0.1)	1799.2 (0.3)	2862.4 (<0.1)	222.1 (3.0)	1878.8 (0.2)	
685.2 (<0.1)	1074.1 (<0.1)	1811.2 (0.3)	2872.7 (0.1)	227.2 (0.2)	1883.6 (0.8)	
687.1 (<0.1)	1081.3 (<0.1)	1822.3 (0.2)	2880.7 (0.2)	247.4 (<0.1)	1917.7 (0.4)	
688.9 (0.8)	1100.3 (<0.1)	1825.9 (0.3)	2883.4 (0.3)	250.2 (0.3)	1932.2 (0.5)	
690.3 (<0.1)	1116.0 (<0.1)	1829.8 (0.2)	2901.3 (1.2)	288.4 (0.3)	1938.7 (0.7)	
694.1 (<0.1)	1121.4 (0.2)	1838.1 (0.1)	2921.1 (1.4)	308.0 (0.2)	1959.4 (0.3)	
695.7 (<0.1)	1137.6 (<0.1)	1857.4 (0.1)	2928.6 (0.2)	312.9 (0.2)	1976.3 (0.5)	
700.2 (<0.1)	1147.2 (1.9)	1860.4 (0.4)	2937.2 (0.1)	320.3 (0.1)	5473.4 (7.0)	
701.6 (0.7)	1158.3 (<0.1)	1879.3 (0.1)	2953.8 (0.2)	326.2 (<0.1)	5626.9 (2.6)	
703.8 (0.1)	1163.5 (0.2)	1906.2 (0.5)	2960.2 (0.8)	333.4 (<0.1)	5787.9 (1.9)	
706.3 (<0.1)	1167.0 (<0.1)	1921.1 (0.4)	2978.5 (0.3)	351.5 (1.0)	5930.2 (6.6)	
709.3 (<0.1)	1172.8 (<0.1)	1928.2 (0.2)	2985.8 (0.3)	380.0 (0.8)	5960.5 (6.6)	
710.2 (<0.1)	1180.4 (<0.1)	1957.6 (0.1)	2993.8 (0.2)	388.1 (1.8)	6007.2 (1.4)	
710.9 (<0.1)	1181.9 (<0.1)	1963.5 (0.2)	3033.6 (0.9)	393.3 (0.2)	6110.0 (1.0)	
711.7 (<0.1)	1192.9 (<0.1)	1970.9 (0.1)	3051.1 (0.6)	400.4 (<0.1)	6192.0 (2.4)	
713.9 (<0.1)	1202.4 (3.1)	1975.8 (0.3)	3074.2 (0.4)	416.2 (<0.1)	6384.8 (0.3)	
718.0 (<0.1)	1205.8 (3.5)	1984.5 (0.1)	3093.1 (0.2)	422.7 (<0.1)	6406.2 (1.5)	
718.6 (<0.1)	1225.4 (3.4)	2002.1 (6.5)	3112.2 (0.3)	429.9 (0.5)	6571.5 (2.5)	
720.2 (<0.1)	1237.0 (<0.1)	2020.6 (0.3)	3185.8 (2.5)	434.0 (0.2)	6793.8 (4.1)	
721.0 (<0.1)	1247.3 (0.3)	2032.6 (0.2)	3216.9 (0.8)	439.5 (100.0)	7314.4 (3.2)	
722.2 (<0.1)	1254.1 (1.9)	2044.2 (0.2)	3263.3 (0.2)	442.3 (0.4)	7753.9 (13.0)	
724.8 (<0.1)	1263.0 (5.5)	2063.7 (0.1)	3269.4 (0.6)	456.3 (0.3)		
728.4 (<0.1)	1266.9 (0.2)	2082.9 (0.1)	3288.9 (2.7)	468.0 (0.2)	204Tl	
733.4 (<0.1)	1273.4 (2.8)	2093.6 (0.4)	3353.2 (<0.1)	472.5 (0.3)	5.9 (<0.1)	
738.5 (<0.1)	1283.9 (<0.1)	2107.8 (0.4)	3499.3 (<0.1)	476.5 (0.5)	47.4 (<0.1)	
739.1 (<0.1)	1291.1 (0.3)	2118.4 (0.1)	3600.7 (<0.1)	486.1 (<0.1)	77.1 (<0.1)	
743.5 (<0.1)	1294.6 (0.1)	2123.9 (0.4)	3633.2 (<0.1)	496.2 (0.2)	108.0 (<0.1)	
745.2 (<0.1)	1318.0 (0.2)	2139.7 (0.4)	3749.4 (<0.1)	520.3 (28.4)	110.7 (<0.1)	
747.3 (<0.1)	1322.4 (0.3)	2161.4 (0.3)	3828.2 (<0.1)	541.1 (<0.1)	132.1 (<0.1)	
748.8 (<0.1)	1337.4 (0.2)	2180.8 (0.4)	3841.0 (<0.1)	549.7 (0.6)	139.9 (100.0)	
749.9 (<0.1)	1341.7 (0.2)	2188.7 (0.4)	3868.3 (<0.1)	556.0 (0.2)	145.8 (<0.1)	
755.9 (<0.1)	1347.1 (0.5)	2194.4 (0.2)	3891.8 (<0.1)	564.5 (0.3)	152.9 (<0.1)	
757.0 (0.1)	1350.4 (1.1)	2204.6 (0.1)	3950.0 (<0.1)	602.1 (0.7)	153.9 (<0.1)	
759.3 (<0.1)	1363.2 (1.5)	2240.6 (0.3)	4017.6 (<0.1)	611.3 (0.2)	154.7 (<0.1)	
761.4 (<0.1)	1366.8 (0.2)	2246.0 (<0.1)	4069.9 (<0.1)	615.8 (0.4)	157.3 (<0.1)	
762.1 (<0.1)	1385.0 (0.5)	2251.4 (0.4)	4094.9 (<0.1)	640.9 (0.7)	169.1 (<0.1)	
768.9 (<0.1)	1408.0 (2.7)	2259.5 (0.5)	4115.0 (<0.1)	653.7 (0.2)	171.8 (<0.1)	
778.9 (<0.1)	1420.5 (<0.1)	2271.5 (1.6)	4177.9 (<0.1)	680.3 (4.1)	178.9 (<0.1)	
780.0 (<0.1)	1422.4 (0.1)	2283.0 (0.5)	4244.1 (<0.1)	718.3 (1.1)	188.0 (<0.1)	
781.0 (<0.1)	1426.4 (<0.1)	2289.6 (0.1)	4272.5 (<0.1)	732.3 (<0.1)	194.5 (<0.1)	
783.7 (0.3)	1432.2 (0.3)	2296.3 (0.8)	4324.3 (<0.1)	742.6 (1.5)	197.0 (<0.1)	
784.9 (<0.1)	1442.5 (<0.1)	2304.7 (<0.1)	4350.1 (<0.1)	783.0 (0.2)	216.7 (<0.1)	
787.1 (0.3)	1447.5 (0.2)	2323.5 (0.3)	4372.4 (<0.1)	786.3 (0.6)	228.9 (<0.1)	
788.8 (<0.1)	1458.2 (0.1)	2346.5 (0.2)	4458.1 (<0.1)	863.3 (1.8)	235.7 (<0.1)	
789.7 (<0.1)	1462.5 (0.2)	2365.2 (0.1)	4536.1 (<0.1)	872.1 (0.6)	249.2 (<0.1)	
796.4 (0.1)	1467.6 (0.8)	2370.0 (0.3)	4555.4 (<0.1)	892.0 (0.3)	253.5 (<0.1)	
797.4 (<0.1)	1479.6 (<0.1)	2401.9 (0.2)	4575.0 (<0.1)	908.5 (3.3)	276.2 (<0.1)	
799.9 (<0.1)	1488.5 (0.8)	2423.7 (0.3)	4604.0 (<0.1)	944.6 (0.4)	278.8 (<0.1)	
807.2 (0.2)	1503.2 (0.6)	2442.6 (0.5)	4675.5 (0.3)	950.3 (2.8)	285.1 (<0.1)	
818.3 (<0.1)	1514.8 (0.8)	2449.8 (0.1)	4739.2 (0.6)	960.1 (3.7)	287.1 (<0.1)	
823.9 (<0.1)	1525.9 (0.2)	2462.6 (0.2)	4758.9 (0.3)	999.7 (0.1)	292.4 (<0.1)	
828.3 (0.4)	1538.2 (0.2)	2468.0 (0.1)	4799.6 (<0.1)	1097.8 (1.7)	292.8 (11.3)	
837.7 (<0.1)	1543.1 (0.5)	2475.8 (0.2)	4811.7 (<0.1)	1122.0 (<0.1)	300.2 (<0.1)	
851.4 (0.8)	1546.1 (0.2)	2480.2 (0.2)	4842.2 (0.4)	1125.2 (0.7)	310.5 (<0.1)	
854.2 (<0.1)	1550.1 (0.3)	2485.3 (0.2)	4954.2 (<0.1)	1135.9 (0.4)	319.3 (35.6)	
860.6 (<0.1)	1553.7 (0.2)	2502.6 (0.1)	4974.7 (0.1)	1140.7 (0.2)	326.1 (<0.1)	
861.7 (<0.1)	1557.7 (0.8)	2513.1 (0.2)	5050.2 (0.4)	1166.9 (0.4)	330.5 (<0.1)	
872.9 (<0.1)	1570.4 (7.9)	2524.3 (0.2)	5135.0 (<0.1)	1173.5 (0.1)	332.1 (<0.1)	
886.2 (4.3)	1589.8 (<0.1)	2528.7 (0.4)	5149.7 (<0.1)	1182.4 (0.3)	337.2 (<0.1)	
890.0 (<0.1)	1604.5 (1.0)	2538.0 (0.2)	5388.4 (0.3)	1203.0 (0.8)	347.9 (27.5)	
896.7 (<0.1)	1610.9 (0.2)	2544.5 (0.2)	5566.4 (<0.1)	1238.8 (0.9)	348.3 (27.5)	
898.6 (0.2)	1623.5 (0.6)	2559.0 (0.1)	5658.5 (0.5)	1293.4 (0.4)	370.5 (<0.1)	
901.7 (<0.1)	1630.7 (0.5)	2564.8 (0.2)	5731.8 (<0.1)	1306.9 (2.4)	384.1 (3.1)	
903.5 (<0.1)	1633.6 (0.2)	2569.1 (0.4)	5799.0 (<0.1)	1314.2 (0.3)	389.8 (<0.1)	
904.4 (0.1)	1638.3 (0.3)	2578.4 (0.3)	5967.4 (1.2)	1320.5 (1.4)	396.0 (7.5)	
905.3 (<0.1)	1647.2 (0.2)	2590.5 (0.5)	6310.3 (<0.1)	1354.8 (5.0)	417.1 (1.0)	
911.5 (<0.1)	1658.2 (0.1)	2606.7 (0.1)	6397.7 (<0.1)	1384.0 (4.5)	418.5 (1.0)	
917.9 (<0.1)	1667.8 (<0.1)	2611.0 (0.3)	6458.3 (0.4)	1389.4 (0.4)	422.8 (<0.1)	
935.4 (0.2)	1669.6 (<0.1)	2620.9 (0.3)	7660.7 (<0.1)	1412.3 (1.4)	425.1 (9.4)	
945.4 (<0.1)	1676.3 (0.3)	2625.5 (0.2)	8029.2 (<0.1)	1477.9 (<0.1)	437.4 (<0.1)	
947.3 (<0.1)	1681.1 (0.2)	2639.9 (2.8)		1519.6 (0.4)	437.7 (3.6)	
957.2 (<0.1)	1685.5 (0.2)	2648.9 (0.3)	202Hg		471.9 (8.8)	
975.2 (0.5)	1693.1 (14.0)	2695.0 (0.1)	77.1 (0.2)	1577.8 (0.7)	483.3 (<0.1)	
980.2 (<0.1)	1698.1 (<0.1)	2699.3 (0.1)	80.0 (1.4)	1631.7 (1.1)	488.3 (7.5)	
992.5 (<0.1)	1706.6 (0.6)	2704.6 (0.2)	95.9 (0.2)	1646.8 (0.4)	489.5 (7.5)	
996.5 (<0.1)	1711.7 (0.4)	2727.2 (0.3)	101.0 (<0.1)	1686.7 (2.3)	541.0 (3.9)	
1002.5 (0.1)	1715.2 (<0.1)	2735.8 (0.2)	104.5 (0.2)	1722.0 (4.1)	554.8 (<0.1)	
1008.7 (<0.1)	1718.6 (1.9)	2742.7 (0.1)	111.3 (0.1)	1765.5 (0.4)	562.9 (2.0)	
1010.2 (<0.1)	1722.2 (0.7)	2756.2 (0.3)	113.1 (<0.1)	1783.7 (0.7)	587.6 (<0.1)	
1013.9 (0.3)	1733.7 (<0.1)	2764.0 (0.2)	139.7 (0.3)	1789.0 (0.5)	580.2 (<0.1)	
1022.5 (<0.1)	1740.2 (<0.1)	2794.5 (0.2)	155.8 (0.1)	1794.4 (0.1)	591.7 (<0.1)	
1027.1 (0.1)	1745.9 (<0.1)	2806.5 (0.2)	162.3 (0.2)	1802.0 (0.2)	606.8 (<0.1)	

Table II. CAPTURE γ 's - nuclide sorted (cont.)

E _γ (keV) (X17)	E _γ (keV) (X17)	E _γ (keV) (X17)	E _γ (keV) (X17)	E _γ (keV) (X17)	E _γ (keV) (X17)	E _γ (keV) (X17)
204Tl (cont.)						
624.7 (<0.1)	3255.8 (<0.1)	6026.4 (2.1)	785.6	548.9 (<0.1)	1001.9 (0.2)	
626.7 (9.4)	3260.5 (0.1)	6120.1 (1.8)	809.4	553.0 (0.4)	1004.6 (0.6)	
629.9 (9.4)	3287.9 (0.3)	6167.5 (15.4)	832.7	557.0 (1.3)	1013.4 (1.4)	
679.8 (2.5)	3302.1 (0.1)	8183.4 (7.1)	867.0	561.1 (1.2)	1015.0 (0.5)	
713.1 (3.8)	3355.4 (<0.1)	8223.4 (6.3)	896.4	564.6 (7.2)	1022.6 (1.0)	
733.1 (<0.1)	3377.5 (0.1)	8337.1 (2.0)	900.2	566.7 (7.2)	1024.1 (1.1)	
737.1 (9.4)	3386.8 (0.1)	8355.4 (0.2)	971.9	569.1 (0.2)	1031.1 (0.2)	
764.3 (3.8)	3410.2 (0.1)	6515.7 (11.7)	1211.4	574.2 (0.6)	1034.0 (0.8)	
818.5 (2.2)	3415.5 (<0.1)	6655.7 (0.9)	3269.0	577.7 (3.6)	1044.3 (0.5)	
872.7 (8.6)	3428.0 (<0.1)		3396.0	580.0 (0.5)	1051.8 (0.4)	
873.6 (<0.1)	3440.4 (<0.1)	205Pb	3408.0	583.1 (2.7)	1054.9 (0.6)	
885.5 (0.4)	3451.0 (<0.1)	2.3 (<0.1)	3611.0	583.9 (2.7)	1062.0 (0.7)	
910.9 (7.5)	3467.9 (0.3)	226.9 (1.7)	3632.0	586.1 (1.8)	1064.3 (0.1)	
931.5 (1.0)	3539.2 (0.1)	260.5 (19.6)	4055.0	593.1 (<0.1)	1073.8 (1.2)	
949.9 (2.8)	3563.7 (0.1)	262.8 (6.6)	4102.0	594.6 (<0.1)	1081.4 (0.2)	
975.0 (0.6)	3576.7 (<0.1)	314.0 (0.8)	4165.0	599.2 (0.5)	1084.6 (0.4)	
993.0 (1.4)	3598.3 (0.1)	499.4 (0.5)	4171.0	605.5 (1.9)	1091.1 (<0.1)	
1012.0 (0.8)	3651.4 (0.1)	540.6 (5.4)	4257.0	612.1 (1.0)	1097.2 (0.4)	
1024.0 (1.0)	3656.5 (<0.1)	546.4 (1.0)	4285.0	617.5 (0.2)	1100.9 (1.0)	
1036.0 (0.6)	3671.7 (<0.1)	564.4 (1.0)	233Th	622.9 (0.6)	1105.5 (0.3)	
1055.0 (1.0)	3684.5 (0.9)	573.8 (15.3)	37.7 (<0.1)	627.1 (1.4)	1109.4 (0.3)	
1062.0 (1.2)	3699.1 (0.1)	576.3 (4.9)	39.1 (<0.1)	629.0 (0.7)	1117.1 (0.5)	
1093.5 (1.8)	3762.1 (0.1)	734.8 (2.1)	44.4 (<0.1)	632.2 (0.5)	1125.7 (0.4)	
1110.0 (2.4)	3786.0 (<0.1)	743.9 (0.9)	48.5 (<0.1)	637.8 (0.2)	1128.9 (0.2)	
1121.0 (2.8)	3793.7 (<0.1)	759.1 (1.4)	54.6 (<0.1)	641.8 (0.5)	1133.4 (0.4)	
1135.0 (1.3)	3826.9 (<0.1)	761.3 (0.9)	57.0 (<0.1)	646.3 (<0.1)	1145.5 (0.6)	
1155.0 (3.8)	3855.6 (0.1)	802.8 (1.3)	76.6 (<0.1)	649.2 (0.2)	1151.7 (0.3)	
1164.0 (1.9)	3879.1 (<0.1)	996.4 (4.7)	76.8 (<0.1)	659.1 (0.8)	1154.3 (0.3)	
1183.0 (0.6)	3902.1 (0.1)	1041.8 (1.2)	85.4 (<0.1)	661.8 (0.6)	1158.0 (0.3)	
1235.0 (3.8)	3907.6 (0.3)	1052.0 (1.3)	107.1 (<0.1)	665.0 (3.7)	1164.2 (0.6)	
1293.0 (2.6)	3942.9 (0.9)	1120.7 (3.9)	159.2 (0.8)	667.3 (0.6)	1165.8 (0.3)	
1478.0 (5.0)	3957.3 (0.2)	1374.1 (14.0)	182.4 (0.2)	681.8 (3.7)	1171.3 (0.4)	
1524.0 (1.6)	3973.8 (0.3)	1512.0 (1.4)	201.6 (0.3)	684.9 (0.5)	1176.5 (0.6)	
1601.0 (0.8)	4009.1 (0.8)	1543.9 (17.5)	211.9 (0.6)	692.8 (0.2)	1185.1 (0.3)	
1706.0 (0.6)	4017.4 (0.9)	1658.5 (3.3)	229.0 (0.5)	696.3 (0.9)	1188.7 (0.1)	
1741.0 (1.9)	4035.9 (0.3)	1813.4 (20.6)	233.3 (0.3)	701.8 (0.3)	1196.5 (0.6)	
1755.0 (1.8)	4069.0 (0.3)	1910.1 (3.1)	249.7 (<0.1)	704.9 (<0.1)	1207.9 (0.2)	
2013.4 (0.9)	4078.2 (0.7)	2117.0 (3.3)	256.2 (3.4)	705.1 (<0.1)	1212.2 (0.2)	
2027.5 (0.1)	4102.3 (0.6)	3572.0 (1.0)	258.3 (<0.1)	710.2 (0.1)	1245.7 (14.4)	
2063.0 (0.1)	4116.1 (1.6)	4099.0 (1.1)	260.2 (0.1)	713.6 (<0.1)	1250.3 (16.8)	
2084.2 (0.4)	4127.8 (0.2)	4166.1 (1.9)	263.0 (0.2)	715.1 (<0.1)	1252.8 (14.1)	
2112.3 (0.6)	4160.9 (0.4)	4178.7 (0.7)	266.9 (<0.1)	721.6 (0.5)	1254.2 (11.8)	
2129.5 (0.3)	4197.5 (3.3)	4245.6 (4.1)	269.7 (<0.1)	724.3 (0.6)	1254.4 (13.7)	
2289.6 (<0.1)	4226.6 (4.3)	4370.6 (1.5)	277.5 (0.6)	734.8 (0.6)	1255.9 (14.4)	
2319.5 (0.6)	4261.4 (0.3)	4380.3 (4.3)	278.2 (0.4)	740.8 (0.6)	1255.8 (11.3)	
2328.5 (<0.1)	4287.7 (0.5)	4614.0 (22.7)	281.3 (0.5)	748.5 (<0.1)	1259.0 (12.0)	
2346.4 (<0.1)	4310.8 (1.9)	4645.1 (7.8)	286.3 (<0.1)	752.4 (0.6)	1259.6 (18.9)	
2397.3 (<0.1)	4344.8 (3.8)	4813.0 (4.1)	297.0 (0.2)	766.6 (0.2)	1260.6 (12.7)	
2428.6 (<0.1)	4380.4 (0.5)	4920.7 (19.4)	298.8 (0.1)	778.2 (<0.1)	1261.0 (14.6)	
2458.6 (<0.1)	4392.8 (0.3)	5115.2 (2.0)	300.5 (<0.1)	780.5 (<0.1)	1263.0 (13.7)	
2497.4 (<0.1)	4404.5 (0.9)	5359.5 (14.0)	313.8 (<0.1)	786.5 (0.5)	1263.6 (9.8)	
2515.6 (<0.1)	4440.0 (0.7)	5931.3 (6.6)	316.7 (1.4)	788.8 (0.3)	1264.2 (18.9)	
2557.8 (0.1)	4448.8 (0.3)	6471.9 (22.1)	319.1 (2.9)	797.2 (<0.1)	1265.3 (24.0)	
2573.4 (0.1)	4466.2 (0.2)	6731.5 (100.0)	319.7 (<0.1)	798.0 (<0.1)	1265.9 (23.5)	
2621.5 (0.1)	4496.9 (4.2)	210Bi	320.4 (<0.1)	806.6 (0.4)	1271.8 (15.8)	
2633.5 (0.1)	4520.2 (0.2)	28.2	320.8 (<0.1)	808.6 (0.9)	1269.1 (10.8)	
2638.1 (0.1)	4542.1 (3.1)	46.5	327.5 (0.4)	814.4 (1.0)	1270.3 (20.1)	
2665.2 (<0.1)	4571.1 (1.9)	63.7	329.9 (0.8)	826.1 (0.8)	1271.4 (20.1)	
2697.3 (<0.1)	4602.3 (2.7)	91.2	331.3 (1.1)	828.5 (0.9)	1271.6 (8.9)	
2714.3 (0.1)	4609.3 (1.1)	110.8	335.9 (3.5)	833.2 (1.3)	1272.0 (22.8)	
2751.8 (<0.1)	4688.9 (9.5)	116.5	346.0 (<0.1)	835.0 (<0.1)	1273.2 (15.8)	
2779.4 (0.1)	4706.9 (5.6)	49.0	351.7 (0.1)	839.5 (0.2)	1273.7 (10.3)	
2806.9 (0.1)	4715.8 (1.6)	154.9	354.3 (1.4)	843.1 (0.5)	1274.4 (11.8)	
2815.9 (<0.1)	4753.6 (12.4)	162.2	361.7 (0.1)	846.4 (0.6)	1275.9 (8.6)	
2844.3 (<0.1)	4806.3 (1.3)	183.1	365.0 (0.2)	849.2 (0.3)	1277.1 (8.2)	
2863.9 (0.1)	4841.6 (3.8)	214.6	366.7 (0.2)	852.8 (0.4)	1278.2 (13.9)	
2906.5 (0.2)	4868.4 (2.5)	311.2	370.5 (0.2)	869.4 (0.6)	1279.4 (7.4)	
2926.6 (<0.1)	4914.8 (14.6)	319.7	384.9 (0.2)	872.1 (<0.1)	1279.5 (9.6)	
2938.6 (<0.1)	4945.0 (3.0)	347.9	389.1 (<0.1)	873.2 (<0.1)	1280.7 (21.1)	
2947.9 (0.1)	4982.4 (1.9)	384.6	402.5 (0.1)	874.4 (0.6)	1281.5 (6.5)	
2958.8 (<0.1)	5015.7 (5.3)	402.0	405.5 (0.3)	885.6 (0.4)	1282.0 (16.3)	
2975.9 (<0.1)	5129.1 (4.3)	408.8	427.4 (0.2)	891.5 (0.9)	1282.4 (24.5)	
2998.8 (<0.1)	5155.1 (0.6)	482.4	432.2 (0.3)	903.3 (0.1)	1283.8 (12.0)	
3011.1 (0.3)	5172.3 (1.8)	490.9	440.5 (<0.1)	907.1 (0.3)	1284.1 (8.6)	
3028.0 (<0.1)	5181.5 (12.8)	516.6	445.1 (0.9)	913.6 (0.3)	1285.0 (11.5)	
3039.1 (0.1)	5240.2 (1.7)	563.1	472.0 (1.0)	918.4 (0.5)	1289.9 (16.8)	
3068.6 (0.1)	5262.8 (7.1)	624.0	472.3 (5.8)	928.4 (<0.1)	1289.1 (7.4)	
3095.7 (<0.1)	5281.2 (17.8)	644.6	487.9 (<0.1)	941.8 (0.5)	1292.8 (8.4)	
3117.5 (0.3)	5405.3 (11.6)	645.8	488.8 (<0.1)	947.2 (0.2)	1292.6 (5.8)	
3129.2 (0.2)	5452.0 (6.3)	646.3	522.6 (3.8)	951.4 (0.2)	1294.3 (2.9)	
3143.8 (<0.1)	5522.4 (2.0)	674.0	531.5 (1.4)	956.6 (<0.1)	1297.0 (11.0)	
3159.4 (<0.1)	5534.3 (11.1)	705.5	534.9 (0.3)	957.7 (<0.1)	1298.0 (17.7)	
3183.3 (<0.1)	5604.4 (24.0)	750.5	539.5 (2.3)	968.0 (1.6)	1298.5 (11.8)	
3207.4 (0.2)	5642.7 (27.4)	757.1	543.4 (0.2)	976.8 (1.4)	1300.9 (5.5)	
3211.3 (0.1)	5749.8 (0.3)	762.8	547.9 (<0.1)	979.8 (0.5)	1304.5 (5.8)	
3233.2 (0.3)	5891.5 (0.7)	769.2		990.7 (0.7)	1304.9 (6.0)	
	5918.6 (7.6)			998.5 (0.2)	1305.7 (10.8)	

Table II. CAPTURE γ 's - nuclide sorted (cont.)

Er(keV) ($\Sigma I \gamma$)	Er(keV) ($\Sigma I \gamma$)	Er(keV) ($\Sigma I \gamma$)	Er(keV) ($\Sigma I \gamma$)	Er(keV) ($\Sigma I \gamma$)	Er(keV) ($\Sigma I \gamma$)
233Th (cont.)					
3058.6 (9.1)	68.7 (<0.1)	685.9 (5.3)	1085.8 (1.4)	1470.4 (0.4)	977.4 (10.2)
3070.6 (9.1)	77.6 (1.7)	691.0 (2.9)	1090.9 (1.5)	1473.1 (0.3)	990.2 (2.6)
3087.0 (16.1)	89.9 (0.2)	694.0 (2.5)	1095.6 (1.9)	1477.9 (1.9)	994.9 (<0.1)
3118.0 (9.8)	98.8 (<0.1)	698.3 (1.6)	1099.0 (1.1)	1480.8 (0.5)	1006.0 (7.6)
3127.6 (10.6)	116.3 (2.7)	700.3 (2.2)	1102.9 (0.3)	1484.3 (0.6)	1014.1 (13.1)
3132.7 (12.2)	119.4 (0.1)	703.7 (7.2)	1104.8 (0.6)	1493.7 (0.9)	1022.3 (<0.1)
3148.3 (38.4)	121.9 (0.3)	714.4 (4.7)	1111.4 (0.7)	1496.2 (0.8)	1064.7 (2.1)
3174.6 (16.5)	123.2 (0.2)	718.2 (5.9)	1115.6 (0.7)	3802.0 (3.9)	1100.1 (<0.1)
3184.9 (15.8)	125.0 (<0.1)	724.3 (0.4)	1117.7 (0.5)	3809.5 (8.2)	4648.3 (0.7)
3196.5 (27.3)	129.3 (34.7)	728.2 (1.3)	1124.4 (0.7)	3813.7 (9.8)	4883.9 (1.6)
3228.9 (10.6)	132.2 (0.2)	733.5 (0.4)	1142.2 (6.1)	3834.8 (12.6)	4902.7 (0.7)
3231.6 (11.3)	140.7 (0.1)	735.7 (3.3)	1145.0 (0.8)	3848.6 (32.6)	4973.0 (1.6)
3245.5 (5.3)	141.6 (0.2)	741.7 (0.8)	1149.9 (0.3)	3858.2 (11.6)	5196.8 (0.5)
3261.2 (7.2)	142.2 (0.2)	747.9 (11.6)	1153.2 (0.4)	3884.7 (67.4)	5213.7 (0.9)
3268.9 (3.6)	146.6 (0.2)	750.8 (1.1)	1157.7 (0.9)	3893.1 (10.5)	5323.2 (0.9)
3276.5 (9.4)	148.1 (0.1)	756.6 (2.2)	1161.8 (0.4)	3909.1 (22.1)	5373.4 (0.7)
3288.0 (21.6)	158.3 (<0.1)	760.9 (1.4)	1164.8 (1.7)	3915.1 (57.9)	5494.1 (0.3)
3295.3 (8.9)	159.1 (0.2)	762.9 (1.1)	1167.7 (0.8)	3939.0 (22.1)	5544.1 (0.7)
3326.6 (18.2)	161.4 (1.3)	766.7 (2.0)	1170.6 (0.3)	3981.2 (2.0)	5584.1 (0.3)
3341.7 (29.3)	167.1 (0.3)	769.7 (18.9)	1173.0 (2.2)	3995.4 (16.8)	6395.7 (5.5)
3363.7 (8.2)	171.6 (0.3)	775.9 (1.2)	1177.0 (0.7)	4000.5 (16.8)	6500.0 (0.3)
3377.9 (24.2)	172.6 (0.4)	779.4 (2.1)	1182.9 (0.5)	4024.7 (32.6)	
3391.1 (9.1)	175.0 (0.3)	784.0 (0.6)	1185.5 (2.8)	4031.9 (11.6)	238Np
3398.3 (30.9)	181.5 (0.2)	787.0 (4.1)	1190.2 (0.3)	4071.0 (4.8)	49.4 (48.0)
3436.1 (35.3)	182.8 (0.1)	792.5 (2.7)	1194.2 (2.5)	4103.4 (61.1)	53.6 (1.0)
3448.5 (37.9)	184.0 (0.2)	799.0 (2.1)	1197.5 (1.1)	4112.2 (9.5)	57.9 (1.0)
3461.6 (12.5)	195.7 (1.1)	803.4 (1.2)	1202.5 (0.9)	4155.1 (100.0)	59.2 (0.9)
3473.0 (100.0)	197.0 (0.5)	805.5 (3.5)	1206.0 (0.4)	4168.0 (38.9)	60.2 (3.5)
3503.1 (8.6)	203.5 (5.8)	808.4 (1.5)	1210.5 (0.4)	4191.6 (1.9)	72.9 (4.2)
3509.5 (23.7)	212.4 (0.4)	813.5 (5.8)	1213.0 (0.6)	4197.9 (4.8)	73.8 (3.1)
3523.1 (10.6)	218.5 (0.5)	821.3 (1.3)	1220.6 (2.1)	4214.7 (3.5)	79.8 (0.8)
3526.9 (18.9)	229.0 (0.5)	823.6 (0.8)	1224.7 (1.9)	4223.9 (10.5)	82.2 (4.1)
3530.1 (24.9)	263.7 (2.1)	828.9 (1.8)	1226.6 (1.5)	4262.4 (15.8)	86.6 (<0.1)
3548.1 (7.0)	265.6 (3.2)	832.3 (2.0)	1229.9 (0.5)	4288.8 (10.5)	102.6 (3.2)
3600.9 (8.2)	316.3 (2.9)	840.3 (1.8)	1233.1 (3.7)	4295.0 (38.9)	105.9 (0.8)
3603.5 (13.4)	320.5 (0.3)	843.7 (6.0)	1238.1 (0.5)	4305.2 (2.2)	107.2 (4.8)
3615.3 (7.7)	323.5 (1.5)	847.1 (0.8)	1245.4 (1.5)	4405.6 (10.5)	109.7 (9.9)
3635.3 (10.1)	332.7 (4.3)	849.9 (0.8)	1246.4 (2.4)	4432.6 (7.2)	115.8 (2.4)
3654.2 (4.8)	341.3 (3.7)	852.4 (2.7)	1252.4 (1.5)	4492.3 (9.5)	121.8 (1.5)
3712.6 (7.7)	344.8 (3.7)	856.7 (0.6)	1256.0 (0.5)	4519.3 (3.9)	124.3 (0.3)
3725.2 (14.1)	367.2 (1.2)	863.8 (1.5)	1265.4 (1.8)	4527.8 (93.7)	126.4 (0.5)
3735.6 (17.5)	371.1 (0.8)	878.7 (2.1)	1269.0 (1.9)	4536.8 (11.6)	136.0 (4.2)
3746.2 (14.9)	373.7 (0.7)	886.0 (0.2)	1272.3 (0.8)	4593.9 (81.1)	144.5 (0.8)
3755.1 (17.5)	374.9 (11.6)	889.5 (2.7)	1279.8 (0.8)	4639.1 (2.8)	152.9 (4.0)
3802.7 (10.3)	376.3 (3.7)	892.3 (1.3)	1283.6 (2.6)	4658.2 (1.9)	153.7 (2.9)
3839.2 (3.1)	378.8 (1.1)	894.6 (0.4)	1286.1 (0.4)	4904.4 (2.1)	156.4 (34.0)
3862.0 (10.8)	380.0 (20.0)	901.1 (0.6)	1289.8 (0.5)	5245.9 (8.2)	160.6 (2.9)
3867.2 (2.2)	392.5 (<0.1)	905.0 (1.3)	1293.6 (4.9)	5284.6 (3.5)	176.5 (1.1)
3882.9 (2.4)	393.0 (24.2)	911.8 (1.1)	1296.7 (2.0)	5297.9 (1.9)	182.9 (100.0)
3933.2 (2.9)	399.3 (1.6)	916.2 (0.5)	1301.3 (2.9)		189.1 (3.4)
3946.4 (42.4)	412.3 (2.5)	918.2 (1.1)	1304.8 (0.9)	238U	215.5 (5.6)
3971.8 (7.2)	413.6 (9.5)	927.8 (1.3)	1308.1 (2.9)	45.2 (<0.1)	217.6 (2.2)
4016.6 (5.5)	422.5 (1.6)	931.1 (0.5)	1318.2 (1.2)	56.7 (<0.1)	218.5 (0.7)
4036.6 (1.9)	445.8 (2.2)	938.9 (0.7)	1319.6 (1.4)	104.2 (<0.1)	232.4 (4.5)
4045.1 (18.2)	454.6 (0.9)	941.2 (0.8)	1324.3 (0.9)	160.3 (<0.1)	233.6 (1.5)
4073.0 (13.4)	478.1 (4.4)	944.9 (1.3)	1328.8 (0.5)	243.8 (<0.1)	236.0 (5.1)
4090.9 (1.9)	491.1 (4.1)	949.2 (7.1)	1331.4 (1.8)	258.4 (<0.1)	243.9 (27.0)
4104.6 (3.6)	495.9 (0.5)	950.9 (7.4)	1333.9 (1.1)	279.2 (<0.1)	250.3 (2.5)
4174.8 (1.9)	504.8 (3.4)	955.6 (5.3)	1337.1 (2.6)	301.0 (<0.1)	264.7 (0.9)
4202.0 (15.6)	517.0 (0.6)	962.2 (0.7)	1344.5 (1.2)	308.1 (<0.1)	281.8 (0.8)
4213.8 (3.1)	558.3 (1.3)	965.3 (1.1)	1349.7 (0.7)	365.5 (<0.1)	289.0 (1.0)
4246.9 (14.9)	564.1 (0.5)	968.4 (4.0)	1354.4 (2.0)	405.2 (<0.1)	294.1 (1.4)
4362.2 (1.9)	582.6 (3.2)	969.9 (2.4)	1357.9 (4.4)	423.1 (<0.1)	297.7 (6.0)
4372.7 (1.9)	586.4 (2.1)	977.2 (1.8)	1364.1 (0.6)	642.2 (100.0)	332.2 (6.9)
4380.7 (1.9)	595.8 (2.1)	978.9 (1.1)	1367.1 (1.3)	655.8 (<0.1)	391.3 (1.3)
4398.2 (1.9)	599.2 (5.5)	981.2 (1.3)	1369.3 (1.9)	687.5 (31.0)	405.2 (1.7)
4419.5 (1.9)	602.4 (0.5)	983.2 (1.1)	1372.0 (0.8)	698.9 (<0.1)	430.8 (4.7)
4450.4 (9.4)	608.4 (1.4)	987.0 (3.9)	1377.4 (0.9)	790.2 (<0.1)	461.5 (2.3)
4477.0 (1.9)	612.6 (3.7)	990.2 (6.4)	1382.5 (4.2)	810.9 (4.7)	496.6 (3.9)
4523.8 (2.4)	615.2 (1.3)	992.8 (2.8)	1386.9 (1.2)	838.9 (<0.1)	530.7 (1.8)
4769.6 (7.9)	616.9 (4.8)	995.4 (2.4)	1391.3 (2.9)	852.2 (2.2)	538.3 (2.6)
4785.0 (1.2)	618.4 (7.6)	1000.0 (0.4)	1393.9 (1.1)	873.9 (<0.1)	541.2 (2.8)
	621.8 (0.4)	1002.2 (3.6)	1397.2 (1.1)	886.2 (2.9)	551.7 (1.4)
	624.7 (9.2)	1005.8 (0.4)	1399.9 (2.4)	901.3 (<0.1)	555.3 (2.3)
235U	627.4 (0.2)	1009.2 (1.1)	1412.7 (2.5)	903.5 (4.7)	557.2 (2.8)
0.1 (<0.1)	633.1 (20.0)	1015.9 (2.6)	1416.9 (0.5)	909.1 (13.1)	584.3 (3.0)
12.9 (<0.1)	637.8 (35.8)	1019.8 (1.9)	1422.9 (0.8)	912.7 (5.5)	606.7 (2.4)
23.5 (0.4)	640.4 (2.4)	1024.7 (0.6)	1425.6 (2.0)	915.1 (6.9)	620.1 (3.8)
29.9 (0.2)	642.6 (0.7)	1028.1 (0.2)	1428.0 (0.6)	918.9 (<0.1)	646.8 (4.2)
30.9 (0.1)	646.0 (13.7)	1032.7 (1.6)	1435.9 (0.9)	920.5 (4.1)	648.2 (3.7)
38.7 (0.1)	649.5 (2.1)	1045.0 (3.5)	1438.3 (1.7)	922.1 (9.3)	2630.7 (22.0)
42.1 (0.3)	651.9 (12.6)	1047.5 (2.7)	1442.9 (0.4)	943.0 (16.2)	3378.6 (19.0)
46.2 (0.2)	654.4 (1.5)	1057.3 (1.8)	1449.0 (1.4)	956.2 (17.8)	3383.8 (16.0)
47.6 (0.3)	658.9 (9.2)	1060.1 (1.1)	1450.9 (0.7)	958.3 (7.8)	3665.6 (13.0)
51.7 (0.3)	664.4 (6.7)	1072.6 (3.1)	1461.6 (1.7)	959.9 (5.5)	3776.6 (20.0)
53.5 (0.1)	670.7 (1.9)	1078.2 (0.7)	1464.3 (1.9)	965.8 (<0.1)	3941.6 (14.0)
54.1 (0.1)	680.0 (1.5)	1083.1 (0.5)	1468.3 (0.8)	967.0 (<0.1)	3979.1 (13.1)

Table II. CAPTURE γ 's - nuclide sorted (cont.)

$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)	$E_{\gamma}(\text{keV})$ ($\%I_{\gamma}$)
238Np (cont.)					
3995.3 (7.7)	888.4 (2.1)	6491.2 (30.0)	115.3 (2.3)	444.1 (1.3)	4219.0 (29.3)
4004.0 (12.8)	925.7 (0.4)		116.3 (1.4)	447.3 (2.3)	4243.5 (18.1)
4042.4 (11.5)	933.6 (1.7)	241Pu	116.8 (1.9)	452.4 (1.3)	4406.5 (3.8)
4079.6 (16.6)	4547.1 (30.4)	557.8 (1.4)	117.7 (2.5)	468.3 (10.7)	4505.0 (6.4)
4095.3 (13.5)	4714.7 (7.5)	577.4 (6.7)	125.1 (2.7)	470.2 (15.4)	4713.4 (4.4)
4103.5 (30.2)	4759.0 (4.2)	584.3 (1.0)	126.9 (<0.1)	490.6 (1.7)	
4112.5 (19.5)	4821.8 (100.0)	593.6 (17.1)	129.1 (4.3)	494.5 (13.9)	
4118.3 (13.4)	4842.0 (15.0)	598.7 (6.7)	129.9 (5.6)	497.4 (3.4)	
4123.3 (15.3)	4848.8 (8.3)	608.1 (17.1)	130.3 (7.8)	506.0 (5.6)	
4157.4 (28.1)	4894.9 (8.3)	613.0 (1.0)	133.7 (7.0)	524.6 (5.4)	
4174.6 (23.7)	5154.6 (14.6)	622.5 (1.4)	137.2 (3.2)	531.7 (5.1)	
4196.8 (17.0)	5176.9 (95.8)	629.7 (8.6)	137.8 (5.8)	535.6 (3.9)	
4212.0 (15.6)	5638.0 (<0.1)	639.8 (8.6)	138.4 (4.5)	539.4 (5.0)	
4227.6 (13.0)	5646.6 (8.3)	671.3 (2.4)	146.5 (3.9)	548.6 (2.7)	
4232.0 (48.1)		678.9 (1.0)	147.8 (2.1)	550.3 (6.1)	
4312.0 (10.4)	239U	680.6 (2.4)	148.2 (2.9)	575.6 (1.8)	
4325.0 (26.7)	133.8 (100.0)	688.7 (2.4)	149.7 (2.4)	588.9 (9.5)	
4345.1 (11.1)	3286.1 (0.9)	758.7 (2.4)	150.3 (5.1)	589.8 (4.9)	
4368.5 (10.0)	3293.5 (<0.1)	772.0 (2.9)	153.8 (2.0)	602.2 (4.4)	
4380.3 (16.8)	3296.5 (1.5)	781.3 (9.5)	158.5 (5.1)	606.7 (1.5)	
4399.1 (8.1)	3301.9 (0.3)	784.4 (2.4)	158.9 (2.7)	621.6 (6.3)	
4407.1 (6.0)	3311.5 (0.8)	794.2 (10.0)	159.2 (5.1)	630.2 (4.1)	
4422.9 (11.2)	3312.8 (0.9)	800.5 (3.8)	159.8 (4.6)	658.4 (5.1)	
4441.6 (6.9)	3324.9 (0.3)	803.3 (8.6)	161.4 (3.2)	683.3 (1.5)	
4454.7 (6.9)	3326.9 (<0.1)	841.0 (3.8)	162.3 (4.1)	705.7 (5.2)	
4461.5 (7.7)	3343.9 (<0.1)	3884.0 (<0.1)	165.8 (2.9)	724.4 (11.4)	
4501.6 (20.3)	3360.6 (0.3)	3944.8 (<0.1)	167.6 (2.5)	743.1 (5.6)	
4517.4 (6.7)	3369.6 (0.2)	3972.7 (<0.1)	171.6 (4.5)	772.8 (6.4)	
4539.2 (12.3)	3389.5 (<0.1)	3987.9 (<0.1)	181.8 (5.3)	778.4 (3.2)	
4559.0 (7.7)	3401.9 (0.5)	4017.7 (<0.1)	182.1 (1.5)	786.3 (14.3)	
4571.5 (9.1)	3406.9 (<0.1)	4151.3 (85.7)	193.2 (2.8)	787.3 (3.5)	
4584.8 (21.0)	3422.9 (<0.1)	4247.4 (<0.1)	193.8 (4.1)	819.6 (8.6)	
4619.1 (19.3)	3438.4 (0.5)	4276.5 (100.0)	194.3 (1.1)	830.7 (23.7)	
4653.4 (11.3)	3445.4 (1.0)	4300.0 (71.4)	198.9 (1.1)	831.1 (25.6)	
4674.2 (10.9)	3481.8 (0.2)	4391.5 (81.0)	208.0 (8.1)	832.7 (12.5)	
4678.3 (42.0)	3485.9 (0.2)	4400.2 (38.1)	215.0 (1.7)	846.2 (30.3)	
4687.7 (15.0)	3488.2 (0.6)	4407.0 (<0.1)	216.5 (1.4)	860.8 (6.4)	
4690.7 (16.0)	3500.8 (0.2)	4456.9 (42.9)	218.7 (2.9)	861.4 (4.8)	
4705.6 (8.9)	3529.6 (0.4)	4472.3 (47.6)	225.9 (2.2)	891.3 (6.5)	
4723.9 (7.4)	3535.8 (0.1)	4486.0 (<0.1)	227.4 (1.2)	899.9 (7.2)	
4762.6 (10.0)	3541.1 (0.1)	5070.8 (14.3)	228.9 (1.6)	914.7 (7.3)	
4778.8 (53.8)	3546.1 (0.2)	5080.3 (47.6)	229.3 (1.0)	942.0 (18.7)	
4795.5 (5.0)	3563.0 (<0.1)		230.6 (4.1)	957.6 (3.9)	
4814.4 (33.5)	3564.0 (0.9)	242Pu	236.8 (2.5)	963.1 (4.1)	
4841.0 (7.0)	3568.7 (<0.1)	684.6 (<0.1)	240.3 (3.0)	968.2 (7.8)	
4868.5 (32.4)	3571.2 (0.3)	735.8 (<0.1)	240.5 (1.5)	981.7 (41.0)	
4886.5 (8.9)	3574.4 (0.2)	780.3 (<0.1)	240.8 (6.1)	982.1 (47.7)	
4903.8 (18.5)	3583.1 (9.3)	787.8 (<0.1)	240.8 (4.8)	983.1 (60.0)	
4920.4 (8.0)	3611.9 (3.2)	915.7 (<0.1)	242.0 (1.4)	983.9 (42.6)	
4960.0 (8.9)	3638.9 (2.7)	941.1 (<0.1)	257.7 (8.3)	1012.2 (26.7)	
4990.7 (5.0)	3651.6 (1.5)	974.9 (<0.1)	265.7 (2.4)	1013.7 (45.1)	
5030.5 (56.6)	3653.9 (0.4)	1105.6 (<0.1)	267.2 (6.7)	1014.9 (25.6)	
5046.3 (39.3)	3656.9 (0.3)	1518.6 (<0.1)	269.7 (6.3)	1073.6 (8.7)	
5101.6 (16.4)	3739.8 (0.8)	3871.7 (8.0)	269.9 (6.3)	1127.4 (11.3)	
5115.2 (14.6)	3744.0 (<0.1)	4217.0 (10.5)	272.0 (1.1)	1135.0 (14.4)	
5120.0 (20.6)	3800.7 (<0.1)	4482.7 (11.0)	275.4 (3.7)	1175.8 (10.8)	
5140.5 (11.5)	3815.9 (0.4)	4564.3 (5.5)	278.2 (1.6)	1186.7 (20.5)	
5153.7 (4.2)	3817.9 (0.3)	5157.0 (23.5)	280.8 (4.6)	1193.7 (11.3)	
5229.3 (7.5)	3840.8 (0.4)	5245.2 (6.5)	302.6 (4.4)	1225.2 (15.4)	
5238.0 (35.6)	3844.5 (1.5)	5269.6 (8.5)	307.4 (1.6)	1239.8 (7.7)	
5271.5 (6.0)	3873.9 (0.6)	5289.9 (36.0)	312.1 (2.7)	1252.3 (11.3)	
5297.4 (5.0)	3913.1 (<0.1)	5476.9 (100.0)	314.2 (3.4)	1269.5 (19.5)	
5305.7 (7.9)	3918.2 (<0.1)	6162.0 (5.5)	316.3 (3.1)	1278.9 (14.4)	
5352.0 (100.0)	3953.4 (0.1)	6264.4 (6.0)	321.9 (1.9)	1283.5 (47.2)	
5487.6 (5.7)	3982.8 (5.7)		339.2 (2.1)	1284.8 (15.4)	
	3991.4 (5.3)	249Cn	340.0 (5.9)	1313.5 (16.4)	
239Pu	4005.7 (<0.1)	40.1 (9.1)	340.4 (5.3)	1334.6 (18.5)	
392.7 (1.3)	4006.0 (<0.1)	41.6 (7.7)	343.0 (3.1)	1342.0 (13.3)	
429.7 (5.8)	4049.7 (<0.1)	58.0 (8.9)	343.2 (2.5)	1365.2 (13.8)	
434.9 (12.9)	4060.5 (31.7)	59.3 (22.2)	348.7 (3.7)	1408.3 (100.0)	
448.5 (0.8)	4067.2 (1.6)	65.1 (5.8)	349.6 (2.7)	1435.7 (17.4)	
462.2 (17.9)	4071.7 (<0.1)	66.8 (7.8)	349.8 (3.4)	1480.1 (6.2)	
470.1 (10.0)	4080.4 (0.3)	67.2 (4.7)	353.8 (2.0)	1525.7 (41.5)	
484.3 (1.7)	4090.7 (0.3)	68.2 (4.0)	357.7 (2.9)	1590.5 (29.2)	
492.2 (9.6)	4118.7 (0.3)	75.7 (7.4)	366.7 (3.7)	1622.9 (82.6)	
497.6 (5.8)	4612.5 (0.7)	75.9 (4.2)	373.9 (2.5)	3399.0 (5.4)	
499.4 (2.1)	4660.7 (0.7)	76.6 (3.2)	400.2 (6.1)	3444.9 (37.4)	
695.6 (1.7)	4672.6 (0.3)	78.4 (3.3)	400.4 (7.3)	3450.1 (3.4)	
744.6 (3.3)	4806.4 (<0.1)	83.9 (2.1)	400.6 (8.7)	3509.7 (19.4)	
752.5 (4.2)		84.7 (3.3)	400.8 (6.7)	3538.3 (51.3)	
790.4 (7.1)	240Pu	97.8 (2.3)	401.6 (3.4)	3560.6 (18.6)	
797.3 (4.2)	5123.8 (58.0)	100.4 (1.5)	415.1 (2.3)	3663.5 (15.1)	
798.2 (5.0)	5292.7 (38.0)	102.7 (19.2)	418.1 (1.7)	3702.1 (4.7)	
805.1 (1.3)	5575.0 (100.0)	102.8 (14.7)	422.0 (18.4)	3750.7 (31.6)	
817.5 (4.2)	5633.6 (10.0)	111.1 (1.2)	422.9 (3.8)	3796.1 (10.9)	
825.5 (9.2)	5673.3 (9.0)	114.9 (4.0)	434.0 (3.0)	3854.5 (2.8)	
	5936.6 (13.0)	115.1 (8.0)	441.5 (1.4)	4022.9 (6.6)	

APPENDIX I - Nuclides* covered in Tables I and II

45Ca	75Se	134Cs	169Yb	233Th
46Sc	76As	135Ba	170Tm	235U
47Ca	77Ge	136Ba	171Er	236U
47Ti	77Se	137Ba	171Yb	238Np
48Ti	78Se	138Ba	172Yb	239Pu
49Ca	79Se	139Ba	173Yb	239U
49Ti	80Br	140La	174Yb	240Pu
50Ti	81Se	141Ce	175Hf	241Pu
51Cr	84Kr	142Pr	175Yb	242Pu
51Ti	86Rb	143Ce	176Lu	249Cm
51V	87Kr	143Nd	177Hf	
52V	87Sr	144Nd	177Lu	
53Cr	88Sr	145Nd	177Yb	
54Cr	90Y	145Sm	178Hf	
55Cr	91Zr	146Nd	179Hf	
55Fe	92Zr	147Nd	180Hf	
56Mn	94Nb	148Sm	182Ta	
57Fe	96Mo	150Sm	184W	
58Fe	98Mo	151Nd	185Os	
59Fe	101Mo	151Sm	185W	
59Ni	101Ru	152Eu	186Re	
60Co	103Ru	152Sm	187Os	
60Ni	104Rh	153Eu	187W	
61Ni	105Pd	153Sm	188Os	
62Ni	105Ru	154Eu	188Re	
63Ni	106Pd	155Sm	190Os	
64Cu	108Ag	156Gd	191Os	
64Ni	110Ag	158Gd	193Os	
65Ni	111Pd	159Gd	194Ir	
65Zn	114Cd	160Tb	195Pt	
66Cu	114In	161Gd	196Pt	
67Zn	116In	162Dy	197Hg	
68Zn	116Sn	163Dy	197Pt	
69Zn	118Sn	164Dy	198Au	
70Ga	122Sb	165Dy	199Au	
71Ge	124Sb	166Ho	200Hg	
72Ga	124Te	167Er	202Hg	
73Ge	128I	168Er	204Tl	
74Ge	129Te	169Er	205Pb	
75Ge	132Xe	169Yb	210Bi	

* Residual nuclides in (n,γ) reaction.

APPENDIX II - EVALUATION STATUS

CUMULATED INDEX TO A-CHAINS

A	Nuclei	Reference	Date	A	Nuclei	Reference	Date	A	Nuclei	Reference	Date	A	Nuclei	Reference	Date
1	H			67	Zn	NDS 16,417	1975j	133	Cs	NDS 11,495	1974	199	Hg	NDS 24,57	1978
2	H			68	Zn	NDS 33,481	1981	134	Xe,Ba	NDS 34,475	1981	200	Hg	NDS 26,81	1979
3	He	NP A251,1	1975f	69	Ga	NDS 35,101	1982	135	Ba	NDS 14,191	1975	201	Hg	NDS 25,193	1978
4	He	NP A206,1	1973f	70	Zn,Ge	NDS 25,1	1978	136	Xe,Ce	NDS 26,473	1979	202	Hg	NDS 25,675	1978
5		NP A320,1	1979	71	Ga	NDS 27,517	1979	137	Ba	NDS 15,335	1975a	203	Tl	NDS 24,117	1978
6	Li	NP A320,28	1979	72	Ge	NDS 31,103	1980	138	Ba,Ce	NDS 36,289	1982	204	Hg,Pb	NDS 27,581	1979
7	Li	NP A320,54	1979	73	Ge	NDS 29,1	1980	139	La	NDS 32,1	1981	205	Tl	NDS 23,287	1978
8	Be	NP A320,80	1979	74	Ge,Se	NDS 17,519	1976i	140	Ce	NDS 28,267	1979	206	Pb	NDS 26,145	1979
9	Be	NP A320,113	1979	75	As	NDS 32,211	1981	141	Pr	NDS 23,529	1978	207	Pb	NDS 22,487	1977
10	B	LP A320,143	1979	76	Ge,Se	NDS 19,507	1976n	142	Ce,Nd	NDS 25,53	1978	208	Pb	NDS 25,243	1971b
11	B	NP A336,1	1980	77	Se	NDS 29,75	1980	143	Nd	NDS 25,603	1978	209	Bi	NDS 22,545	1977
12	C	NP A336,1	1980	78	Se,Kr	NDS 33,189	1981	144	Nd,Sm	NDS 27,97	1979	210	Po	NDS 34,735	1981
13	C	NP A360,1	1981	79	Br	NDS 15,257	1975n	145	Nd	NDS 29,533	1980	211	Po	NDS 25,397	1978
14	N	NP A360,56	1981	80	Se,Br	NDS 36,127	1982	146	Nd,Sm	NDS 14,413	1975a	212	Po	NDS 27,637	1979
15	N	NP A360,107	1981	81	Br	NDS 15,137	1975	147	Sm	NDS 25,113	1978	213	Po	NDS 28,619	1979
16	O	NP A375,1	1982	82	Se,Kr	NDS 15,315	1975j	148	Nd,Sm	NDS 20,373	1977a	214	Po	NDS 21,437	1977
17	O	NP A375,72	1982	83	Kr	NDS 15,169	1975	149	Sm	NDS 19,337	1976P	215	At	NDS 22,207	1977
18	O	NP A300,13	1978e	84	Kr,Sr	NDS 27,339	1979	150	Nd,Gd	NDS 18,223	1976a	216	Po,Rn	NDS 17,329	1976
19	F	NP A300,73	1978e	85	Rb	NDS 30,501	1980	151	Eu	NDS 19,33	1976	217	Rn	NDS 28,639	1979
20	Ne	NP A300,125	1978e	86	Kr,Sr	NDS 25,553	1978	152	Sm,Gd	NDS 30,1	1980	218	Rn	NDS 21,467	1977
21	Ne	NP A310,15	1978	87	Sr	NDS 27,369	1979	153	Eu	NDS 10,429	1973d	219	Fr	NDS 22,223	1977
22	Ne	NP A310,38	1978	88	Sr	NDS 18,87	1976	154	Sm,Dy	NDS 26,281	1979	220	Rn,Ra	NDS 17,341	1976
23	Na	NP A310,67	1978	89	Y	NDS 16,445	1975	155	Gd	NDS 15,409	1975	221	Ra	NDS 27,681	1979
24	Mg	NP A310,96	1978	90	Zr	NDS 16,55	1975	156	Gd,Dy	NDS 18,553	1976	222	Ra	NDS 21,479	1977
25	Mg	NP A310,127	1978	91	Zr	NDS 31,181	1980	157	Gd	NDS 9,273	1973d	223	Ra	NDS 22,243	1977
26	Mg	NP A310,156	1978	92	Zr,Mo	NDS 30,573	1980	158	Gd,Dy	NDS 31,381	1980	224	Ra,Th	NDS 17,351	1976
27	Al	NP A310,183	1978	93	Nb	NDS 88,527	1972j	159	Tb	NDS 27,155	1978	225	Ac	NDS 27,701	1979
28	Si	NP A310,208	1978	94	Zr,Mo	NDS 10,241	1973j	160	Gd,Dy	NDS 12,477	1974d	226	Ra,Th	NDS 20,119	1977
29	Si	NP A310,243	1978	95	Mo	NDS 88,29	1972j	161	Dy	NDS 13,493	1974d	227	Th	NDS 22,275	1977
30	Si	NP A310,271	1978	96	Mo,Ru	NDS 35,281	1982	162	Dy,Er	NDS 17,97	1976	228	Th	NDS 17,367	1976
31	P	NP A310,298	1978	97	Mo	NDS 10,1	1973j	163	Dy	NDS 29,653	1980	229	Th	NDS 24,263	1978
32	S	NP A310,322	1978	98	Mo,Ru	NDS 11,157	1974j	164	Dy,Er	NDS 11,327	1974f	230	Th,U	NDS 20,139	1977
33	S	NP A310,350	1978	99	Ru	NDS 12,431	1974	165	Ho	NDS 11,189	1974i	231	Pa	NDS 21,91	1977b
34	S	NP A310,371	1978	100	Mo,Ru	NDS 11,279	1974	166	Er	NDS 14,471	1975f	232	Th,U	NDS 36,367	1982
35	Cl	NP A310,397	1978	101	Ru	NDS 28,343	1979	167	Er	NDS 17,143	1976	233	U	NDS 24,289	1978
36	S,Ar	NP A310,420	1978	102	Ru,Pd	NDS 35,443	1982	168	Er,Yb	NDS 11,385	1974	234	U	NDS 21,493	1977b
37	Cl	NP A310,450	1978	103	Rh	NDS 28,403	1979	169	Tm	NDS 10,359	1973c	235	U	NDS 21,117	1977b
38	Ar	NP A310,474	1978	104	Ru,Pd	NDS 18,125	1976k	170	Er,Yb	NDS 15,371	1975	236	U,Pi	NDS 36,402	1982
39	K	NP A310,504	1978	105	Pd	NDS 27,1	1979g	171	Yb	NDS 11,549	1974	237	Np	NDS 23,71	1976
40	Ar,Ca	NP A310,529	1978	106	Pd,Cd	NDS 30,305	1980	172	Yb	NDS 15,497	1975	238	U,Pu	NDS 21,549	1977f
41	K	NP A310,593	1978	107	Ag	NDS 34,643	1981	173	Yb	NDS 14,297	1975	239	Pu	NDS 21,153	1977b
42	Ca	NP A310,598	1978	108	Pd,Cd	NDS 87,33	1972b	174	Yb	NDS 10,515	1973c	240	Pu	NDS 20,218	1977f
43	Ca	NP A310,630	1978	109	Ag	NDS 23,229	1978k	175	Lu	NDS 18,331	1976	241	Am	NDS 23,123	1978
44	Ca	NP A310,659	1978	110	Pd,Cd	NDS 22,135	1977o	176	Hf	NDS 19,383	1976	242	Pu,Cm	NDS 21,615	1977f
45	Sc	NDS 22,1	1977a	111	Cd	NDS 27,453	1979k	177	Hf	NDS 16,135	1975	243	Am	NDS 33,79	1981
46	Ca,Ti	NDS 24,1	1978	112	Cd,Sn	NDS 29,587	1980	178	Hf	NDS 13,549	1974	244	Pu,Cm	NDS 34,619	1981
47	Ti	NDS 22,59	1977	113	In	NDS 33,1	1981	179	Hf	NDS 17,287	1976	245	Cm	NDS 33,119	1981
48	Ca,Ti	NDS 23,1	1978	114	Cd,Sn	NDS 35,375	1982	180	Hf,W	NDS 15,559	1975	246	Cm	NDS 32,92	1981
49	Ti	NDS 24,175	1978	115	Sn	NDS 30,413	1980	181	Ta	NDS 9,319	1973c	247	Bk	NDS 33,161	1981
50	Ti,Cr	NDS 19,291	1978	116	Cd,Sn	NDS 32,287	1981	182	W	NDS 14,559	1975	248	Cm,Cf	NDS 32,119	1981
51	V	NDS 23,163	1978	117	Sn	NDS 25,315	1978k	183	W	NDS 16,267	1975	249	Cf	NDS 34,8	1981
52	Cr	NDS 25,235	1978	118	Sn	NDS 17,1	1976i	184	W,Os	NDS 21,1	1977	250	Cf	NDS 32,134	1981
53	Cr	NDS 21,323	1977	119	Sn	NDS 26,207	1979	185	Re	NDS 33,557	1981	251	Cf	NDS 34,35	1981
54	Cr,Fe	NDS 23,455	1978	120	Sn,Te	NDS 17,39	1976i	186	W,Os	NDS 13,267	1974	252	Cf,Fm	NDS 32,158	1981
55	Mn	NDS 18,463	1976	121	Sb	NDS 26,385	1979	187	Os	NDS 14,347	1975b	253	Es	NDS 34,58	1981
56	Fe	NDS 20,253	1977	122	Sn,Te	NDS 87,419	1972i	188	Os	NDS 33,273	1981	254	Cf,Fm	NDS 32,171	1981
57	Fe	NDS 20,327	1977	123	Sb	NDS 29,453	1980	189	Os	NDS 34,537	1981	255	Fm	NDS 34,70	1981
58	Fe,Ni	NDS 19,445	1976a	124	Sn,Xe	NDS 10,91	1973i	190	Os,Pt	NDS 35,525	1982	256	Fm	NDS 32,184	1981
59	Co	NDS 17,485	1976a	125	Te	NDS 32,497	1981	191	Ir	NDS 30,653	1980	257	Fm	NDS 34,81	1981
60	Ni	NDS 28,103	1979	126	Te,Xe	NDS 36,227	1982	192	Os,Pt	NDS 9,195	1973c	258	Fm,No	NDS 32,194	1981
61	Ni	NDS 16,1	1975m	127	I	NDS 35,181	1982	193	Ir	NDS 32,593	1981	259		NDS 34,86	1981
62	Ni	NDS 26,5	1979	128	Te,Xe	NDS 9,157	1973i	194	Pt	NDS 22,433	1977	260		NDS 32,199	1981
63	Cu	NDS 28,559	1979	129	Xe	NDS 88,123	1972i	195	Pt	NDS 23,607	1978	261		NDS 34,91	1981
64	Ni,Zn	NDS 28,179	1979	130	Te,Ba	NDS 13,133	1974	196	Pt,Hg	NDS 26,485	1979	262		NDS 32,202	1981
65	Cu	NDS 16,351	1975i	131	Xe	NDS 17,573	1976	197	Au	NDS 34,101	1981	263		NDS 34,91	1981
66	Zn	NDS 16,383	1975i	132	Xe,Ba	NDS 17,225	1976	198	Pt,Hg	NDS 21,377	1977b				

EXPLANATION

The cumulated index gives, for each mass value A, the most recent evaluation of experimental information on levels of nuclei with that A-value.

NUCLEI The beta-stable member(s) of this A-chain

REFERENCE NP = Nuclear Physics
NDS 9,125 = Nuclear Data Sheets, vol.9, p.125
NDS 84,269 = Nuclear Data Sheets, vol.84, p.269

Date The year in which the evaluation was published

a-p Indicates that a revision is in progress, see opposite page for the data centers doing the revision.

APPENDIX II (cont.)

DATA EVALUATION CENTERS

<p>a. National Nuclear Data Center
Brookhaven National Laboratory
Upton, NY 11973, U.S.A.</p> <p>b. Nuclear Data Project
Oak Ridge National Laboratory
Oak Ridge, TN 37830, U.S.A.</p> <p>c. Isotopes Project
Lawrence Berkeley Laboratory
Berkeley, CA 94720, U.S.A.</p> <p>d. Idaho National Engineering
Laboratory
E.G. and G. Idaho, Inc.
P.O. Box 1625
Idaho Falls, ID 83415, U.S.A.</p> <p>e. Physics Department
University of Pennsylvania
Philadelphia, PA 19174, U.S.A.</p> <p>f. Center for Nuclear Structure
and Reaction Data of the U.S.S.R.
State Committee on the Utilization
of Atomic Energy U.S.S.R.
46 Ulitsa Kurchatova
Moscow, D-182, U.S.S.R.</p> <p>g. Data Centre
Leningrad Nuclear Physics Inst.
Gatchina, Leningrad Region
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Princetonplein 5, P.P. Box 80 000
3508 TA Utrecht, The Netherlands</p> | <p>i. Oliver Lodge Laboratory
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F-38041 Grenoble Cedex, France</p> <p>l. Division of Physics
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S-223 62 Lund, Sweden</p> <p>n. Nuclear Data Project
Kuwait Institute for
Scientific Research
P.O. Box 12009
Kuwait, Kuwait</p> <p>o. Laboratorium voor Kernfysica
Proeftuinstraat 86
B-9000 Ghent, Belgium</p> <p>p. Tandem Accelerator Laboratory
McMaster University
Hamilton, Ontario L8S 4K1
Canada</p> |
|---|--|

Table I. CAPTURE γ 's - energy sorted (cont.)

E_{γ} keV (% γ)	Nucleus (Strongest γ)	E_{γ} keV (% γ)	Nucleus (Strongest γ)	E_{γ} keV (% γ)	Nucleus (Strongest γ)
10594.6 (4.9)	62Ni (1172.8)	10642.6 (1.8)	48Ti (983.7)	11389. (100.0)	60Ni (11389