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ENGINEERING DATA TRANSMITTAL

Page 1 of 1

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Elemental Analyses of Hanford Surface Neutron Moisture Measurement Calibration Standard Samples

Prepared for Westinghouse Hanford Company by
RTL Consulting
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Key Words: SMMS, elemental analysis, moisture measurement, neutron probe

Abstract: Elemental analyses have been performed on twenty samples taken from the moisture standards prepared to use in performing experimental calibrations of the surface neutron moisture measurement system. These standards consisted of mixtures of sand, hydrated alumina, and boron carbide. Elemental analyses were performed primarily to discover the quantities of any strong thermal neutron absorbers that may have been present in the mixture in unknown trace quantities.

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Janis Bishop 7-31-96
Release Approval Date

Release Stamp

Approved for Public Release

Analytical Results Summary For SAIC

**Requester : SAIC
Ali Dabiri
David Shreve**

The following results are a summary of the analytical results for the submitted samples from Hanford. Data are reported as quoted, detailed sample information is included for the trace element analysis. These samples were analyzed with an Fison (VG) PQ 11 + ICP/MS. Iron was analyzed using a Perkin Elmer Zeeman 5000 Atomic Absorption Spectrometer. The elements Si, Al, and Cl were measured with an ARL 4000 X-ray Spectrometer (XRF). XRF data were calibrated using NIST SiO₂, Al₂O₃ for Si and Al; Cl was calibrated using USGS standard rock material.

Observations and Comments:

The submitted samples are not homogeneous, even after sample splitting there was an observed bias in the sample color, i.e., chemistry. The Scanning Electron Microscope, SEM, and EDS, Energy Dispersive Spectroscopy, also confirm the lack of homogeneity within the sample group.

The sample chemistry as a whole is very "clean" with very low carbon and low trace metals. One sample, MS7P4, was not accurately measured for Mn due to a computer error. It was estimated by comparison with the raw spectrum from the multi-channel analyzer data and the spectra of the standards.

The "spiked" samples containing boron carbide, as expected, did not show any kind of an increase in the boron signal. Boron carbide is generally insoluble in mineral acids. Even with concentrated nitric acid and hydrofluoric acid, high temperature and pressure; the data indicate that this is true.

The following is a list of the samples. The ones that are listed for analysis are in bold. The description at the end gives the equivalent weight percent of water that would have the same amount of Hydrogen, based on the assumption that Hydrated Alumina is $\text{Al}_2\text{O}_3 \cdot 3\text{H}_2\text{O}$.

MS1	P12			4 wt% uniform
MS2	P4			8 wt% uniform
MS3	P3			13 wt% uniform
MS4	P4			19 wt% uniform
MS5	P4			25 wt% uniform
MS6	P3			35 wt% uniform
MS7	P3	P4		8 wt% / 13 wt% layered
MS8	P3			8 wt% / 13 wt% / 19 wt% layered
MS9	P3			13 wt% / 19 wt% layered
MS10	P5			13 wt% / 19 wt% / 25 wt% layered
MS11	P1,	P3,	P4	19 wt% (low boron)
MS12	P2,	P3,	P4	19 wt% (high boron)
MS14	P2			19 wt% 6 cm thick
MS15	P2			19 wt% 8 cm thick
MS16	P2			19 wt% 10 cm thick

The samples labeled MS11 and MS12 have boron carbide as an introduced impurity. MS11 is "low boron (0.004 wt%)" concentration and MS12 is "high boron (0.008 wt%)" concentration. Each of these samples has a sticker that says Boron attached to them.

SAMPLE	Ag	B	Cd	Co	Cu	Fe	Li
MS1P12	0.3	5.5	0.7	0.4	0.7	399	1
MS2P4	0.5	1.4	0.8	0.1	0.8	352	0.8
MS3P3	1	0.1	1.5	0.5	0.8	243	1.2
MS4P4	0.1	4.9	0.1	0.2	0.5	285	0.3
MS5P4	0.1	5.5	1	0.2	0.6	226	1.2
MS6P3	0.3	1.6	1.5	0.7	1.9	119	1
MS7P3	0.1	1	0.1	0.1	0.2	358	1.4
MS7P4	0.2	3.2	1.5	0.8	4.1	219	1
MS8P3	0.4	5.8	0.8	0.1	0.1	229	1
MS9P3	0.5	3.9	0.1	0.1	0.1	256	0.9
MS10P5	0.1	5.5	0.6	0.6	1.3	210	1.4
MS11P1	0.1	1	0.1	0.1	0.2	241	0.2
MS11P3	0.1	0.1	0.1	0.1	0.1	59	0.1
MS11P4	0.1	3.1	0.1	0.1	0.1	119	0.4
MS12P2	0.1	0.1	0.1	0.1	0.2	154	0.1
MS12P3	0.1	4.4	1.9	0.1	0.4	243	1.2
MS12P4	0.1	0.1	0.1	0.1	0.1	171	0.2
MS14P2	0.1	0.7	0.4	0.2	0.7	312	2.1
MS15P2	0.1	5.5	0.5	0.1	0.1	149	0.5
MS16P2	0.1	5.5	1.1	0.2	0.8	276	1.3

SAMPLE	Mn	Nd	Ni	Sb	Se	Sm
--------	----	----	----	----	----	----

SAMPLE	Mn	Nd	Ni	Sb	Se	Sm
MS1P12	6.4	0.8	0.8	0.1	0.9	0.1
MS2P4	3.1	3.4	0.3	0.1	1.5	0.5
MS3P3	4.6	0.5	1	0.3	1.5	0.1
MS4P4	9.1	0.1	0.6	0.1	0.9	0.1
MS5P4	5.6	0.4	0.6	0.2	0.1	0.2
MS6P3	2	0.4	2.5	0.5	1.5	0.5
MS7P3	5.9	0.3	0.2	0.1	0.4	0.1
MS7P4	5.0*	0.2	2.7	0.2	1.5	0.1
MS8P3	4.7	0.8	0.4	0.1	1.5	0.4
MS9P3	1.7	0.8	0.1	0.2	1.5	0.1
MS10P5	7.8	1.5	0.7	0.2	2.8	0.7
MS11P1	5	0.1	0.8	0.1	1.5	0.5
MS11P3	0.1	0.1	0.1	0.1	0.1	0.1
MS11P4	1.4	0.1	0.3	0.1	1.5	0.1
MS12P2	4.6	4.1	0.1	0.1	1.5	0.9
MS12P3	5.2	1.2	0.5	0.1	4.3	0.2
MS12P4	0.7	0.1	0.1	0.1	0.1	0.1
MS14P2	5	0.1	0.7	0.1	0.1	0.1
MS15P2	6.9	0.4	0.1	0.1	1.9	0.3
MS16P2	8	0.1	0.7	0.1	0.1	0.1

* "TRACKS" WITH IRON - ESTIMATED -

SAIC Si, Al, Cl Analysis Results

	%Si	%Al	Cl (ppm)
MS1P12	42.59	6.32	49
MS2P4	35.25	14.35	65
MS3P3	30.94	19.08	55
MS4P4	21.03	29.92	47
MS5P4	12.30	39.47	73
MS6P3	2.68	50.00	76
MS7P3	37.20	12.22	124
MS7P4	26.83	23.57	65
MS8P3	17.38	33.91	62
MS9	40.47	8.64	72
MS10P5	16.63	34.74	47
MS11P1	19.01	32.13	44
MS11P3	18.06	33.17	100
MS11P4	14.44	37.14	43
MS12P2	17.13	34.19	39
MS12P3	14.24	37.36	43
MS12P4	17.49	33.80	34
MS14P2	18.41	32.79	39
MS15P2	21.63	29.27	48
MS16P2	20.02	31.03	60

ELEMENTAL ANALYSIS C, H, N

4/1/96

SAMPLE	C%	H%	N%
MS1	0.02	0.26	0.23
MS2	0.01	0.08	0.18
MS3	0.03	2.8	0.21
MS4	0.02	3.35	0.2
MS5	0.02	2.91	0.3
MS6	0.02	3.26	0.18
MS7 P3	0.03	2.7	0.12
MS7P4	0.01	0.49	0.2
MS8	0.02	2.95	0.22
MS9	0.03	3.05	0.18
MS10	0.03	3.3	0.15
MS11 P1	0.02	2.67	0.13
MS11 P3	0.03	3.42	0.18
MS11 P4	0.03	2.73	0.1
MS12 P2	0.02	3.42	0.11
MS12 P3	0.02	2.95	0.15
MS12 P4	0.02	3.15	0.15
MS14	0.04	3.3	0.15
MS15	0.02	3.15	0.19
MS16	0.05	3.18	1.67

Final Working Curves for Si, Al and Cl
4/3/96

STANDARD ADDITIONS

SAMPLE: MS1P12 Ag

DATE 03/31/96

Dil. Fct. 103

Counts ppb

952 0.0

42189 50.0

76418 100.0

Element:

Filename:\SAIC\MS1P12

Regression Output:

Constant -2.65784

Std Err of Y Est 3.785679

R Squared 0.997133

No. of Observations 3

Degrees of Freedom 1

X Coefficient(s) 0.001321

Std Err of Coef. 0.000070

ppm = 0.3 (ppm)

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.52174	3.5	1	1

Tot. Dil Fct. 103.3

STANDARD ADDITIONS

SAMPLE: MS1P12 B
Dil. Fct. 103

DATE 03/31/96

Regression Output:

Counts ppb

0.0
50.0
100.0

Constant -2.65784
Std Err of Y Est 3.785679
R Squared 0.997133
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001321
Std Err of Coef. 0.000070

Element:

ppm = 0.3 (ppm)

Filename:\SAIC\MS1P12

5.5 ppm best Est

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
19.52174	3.5	1	1

Tot. Dil Fct. 103.3

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STANDARD ADDITIONS

SAMPLE: MS1P12 Cd
Dil. Fct. 103

DATE 03/31/96

Regression Output:

Counts ppb

1470 0.0
19943 50.0
33491 100.0

Constant -6.70700
Std Err of Y Est 6.254464
R Squared 0.992176
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.003098
Std Err of Coef. 0.000275

Element:

ppm = 0.7 (ppm)

Filename:\SAIC\MS1P12

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.52174	3.5	1	1

Tot. Dil Fct. 103.3

STANDARD ADDITIONS

SAMPLE: MS1P12 Co
Dil. Fct. 103

DATE 03/31/96

Regression Output:

Counts ppb

6590 0.0
157420 50.0
284535 100.0

Constant -3.66279
Std Err of Y Est 3.479063
R Squared 0.997579
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000358
Std Err of Coef. 0.000017

Element:

ppm = 0.4 (ppm)

Filename:\SAIC\MS1P12

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.52174	3.5	1	1

Tot. Dil Fct. 103.3

STANDARD ADDITIONS

SAMPLE: MS1P12 Cu

DATE 03/31/96

Dil. Fct. 103

Regression Output:

Counts ppb

Constant -6.68646

Std Err of Y Est 2.123821

R Squared 0.999097

No. of Observations 3

Degrees of Freedom 1

7823 0.0

77924 50.0

141089 100.0

X Coefficient(s) 0.000749

Std Err of Coef. 0.000022

Element:

ppm = 0.7 (ppm)

Filename:\SAIC\MS1P12

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1

Dil Fct. #1
29.52174Dil. Fct. #2
3.5Dil. Fct. #3
1Dil. Fct. #4
1

Tot. Dil Fct. 103.3

STANDARD ADDITIONS

SAMPLE: MS1P12 Fe
Dil. Fct. 89

DATE 03/31/96

Regression Output:

ABS Units ppm

66 0.0
130 4.3
184 8.0

Constant -4.50840
Std Err of Y Est 0.055966
R Squared 0.999902
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.067992
Std Err of Coef. 0.000669

Element:

ppm = 399.3 (ppm)

Filename:\SAIC\MS1P12

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	6	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
9.52174	3	1	1

Tot. Dil Fct. 88.6

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STANDARD ADDITIONS

SAMPLE: MS1P12 Li
 Dil. Fct. 103

DATE 03/31/96

Regression Output:

Counts ppb

29477 0.0

137247 50.0

271388 100.0

Constant -10.1300

Std Err of Y Est 4.441574

R Squared 0.996054

No. of Observations 3

Degrees of Freedom 1

X Coefficient(s) 0.000411

Std Err of Coef. 0.000025

Element:

ppm = 1.0 (ppm)

Filename:\SAIC\MS1P12

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
29.52174	3.5	1	1

Tot. Dil Fct. 103.3

STANDARD ADDITIONS

SAMPLE: MS1P12 Mn
Dil. Fct. 103

DATE 03/31/96

Regression Output:

Counts ppb

248970 0.0
518405 50.0
661616 100.0

Constant -61.9417
Std Err of Y Est 12.29757
R Squared 0.969753
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000235
Std Err of Coef. 0.000041

Element:

ppm = 6.4 (ppm)

Filename:\SAIC\MS1P12

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)

0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.52174	3.5	1	1

Tot. Dil Fct. 103.3

STANDARD ADDITIONS

SAMPLE: MS1P12 Nd
Dil. Fct. 103

DATE 03/31/96

Regression Output:

Counts	ppb	Constant	-7.86281
-----	-----	Std Err of Y Est	7.640441
3012	0.0	R Squared	0.988324
13475	50.0	No. of Observations	3
28791	100.0	Degrees of Freedom	1
-----	-----	X Coefficient(s)	0.003833
		Std Err of Coef.	0.000416

Element:

ppm = 0.8 (ppm)

Filename:\SAIC\MS1P12

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.52174	3.5	1	1

Tot. Dil Fct. 103.3

STANDARD ADDITIONS

SAMPLE: MS1P12 Ni

DATE 03/31/96

Dil. Fct. 103

Regression Output:

Counts ppb

Constant -7.71925

Std Err of Y Est 0.950885

R Squared 0.999819

4655 0.0

No. of Observations 3

37097 50.0

Degrees of Freedom 1

68062 100.0

X Coefficient(s) 0.001576

Std Err of Coef. 0.000021

Element:

ppm = 0.8 (ppm)

Filename:\SAIC\MS1P12.

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.52174	3.5	1	1

Tot. Dil Fct. 103.3

STANDARD ADDITIONS

SAMPLE: MS1P12 Sb

DATE 03/31/96

Dil. Fct. 103

Regression Output:

Counts ppb

Constant -0.89855

Std Err of Y Est 1.094179

R Squared 0.999760

No. of Observations 3

Degrees of Freedom 1

148 0.0

16524 50.0

32045 100.0

X Coefficient(s) 0.003134

Std Err of Coef. 0.000048

Element:

ppm = 0.1 (ppm)

Filename:\SAIC\MS1P12

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.52174	3.5	1	1

Tot. Dil Fct. 103.3

STANDARD ADDITIONS

SAMPLE: MS1P12 Se
Dil. Fct. 103

DATE 03/31/96

Regression Output:

Counts	ppb
357	0.0
1767	50.0
3553	100.0

Constant	-8.93751
Std Err of Y Est	4.791879
R Squared	0.995407
No. of Observations	3
Degrees of Freedom	1

X Coefficient(s)	0.031145
Std Err of Coef.	0.002115

Element:

Filename:\SAIC\MS1P12

ppm = 0.9 (ppm)

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.52174	3.5	1	1

Tot. Dil Fct. 103.3

STANDARD ADDITIONS

SAMPLE: MS1P12 Sm
Dil. Fct. 103

DATE 03/31/96

Regression Output:

Counts ppb

517 0.0
8193 50.0
18593 100.0

Constant 0.029739
Std Err of Y Est 6.129027
R Squared 0.992487
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.005490
Std Err of Coef. 0.000477

Element:

ppm = -0.0 (ppm)

Filename:\SAIC\MS1P12

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.52174	3.5	1	1

Tot. Dil Fct. 103.3

Integrals for : PRO BLANK 19 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	28248	27515	531701	2345034	252896	46308	24358	112076
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	44606	28194	38595	51961	48786	16387	1833	27534
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	61642	33802	51340	33635	28868	29821	51294	33409
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	29422	35954	32598	30888	33838	34732	28397	35448
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	509929	7752	34059	29547	28636	32527	32760	64983
Peak	Tl 205	Pb 208	Bi 209	U 238				
CPS	66582	51015	63056	61105				

Integrals for : MS1 +G 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	29477	3178	307714	1412664	6228093	1501309	215848	289142
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	26481	16685	19766	248970	170912	6590	4655	7823
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	10496	20106	5012	108514	1047	589	17746	357
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	4089	5613	16978	70857	952	654	178	1470
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Hd 146	Sm 147	Tl 203
CPS	274225	148	238	589	239432	3012	517	83
Peak	Tl 205	Pb 208	Bi 209	U 238				
CPS	113	3345	95	1321				

Integrals for : MS1 +50 :

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	137247	31854	433898	2017867	3084531	2799324	337334	437532
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	45101	135215	125426	312475	247772	157420	37097	77924
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	37711	51322	17353	212542	3024	7935	26755	1767
Peak	Se 78	Se 80	Pb 86	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	7001	3102	73012	148300	42189	37541	7530	19943
Peak	Zn 115	Sc 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	540330	15524	12593	51555	370936	13475	8192	14380
Peak	Tl 205	Pb 206	Pb 209	U 238				
CPS	32657	23358	25101	28244				

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Integrals for MS1 - 001

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	271288	53038	319950	1355447	8298035	2269721	302096	386772
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	41147	257779	266479	661616	225698	284535	68062	141089
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	62590	82960	32600	336974	4220	14273	26614	3553
Peak	Se 78	Se 82	Pb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	7983	8394	137641	232581	77389	76418	13677	33491
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Hd 146	Sm 147	Tl 203
CPS	533185	32045	24879	132417	477345	28791	18593	35613
Peak	Tl 205	Pb 208	Bi 209	U 238				
CPS	80222	51545	63792	57515				

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STANDARD ADDITIONS

SAMPLE: MS2P4 Ag
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

1250 0.0
8809 50.0
18591 100.0

Constant -4.8
Std Err of Y Est 5.219194
R Squared 0.994552
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.005735
Std Err of Coef. 0.000424

Element:

ppm = 0.5 (ppm)

Filename:\SAIC\MS2P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4997	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil. Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.01801	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS2P4 B
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts	ppb
-----	-----
3200	0.0
18943	50.0
30691	100.0

Constant	-13.6
Std Err of Y Est	5.911904
R Squared	0.993009
No. of Observations	3
Degrees of Freedom	1

X Coefficient(s)	0.003612
Std Err of Coef.	0.000303

Element:

ppm = 1.4 (ppm)

Filename:\SAIC\MS2P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4997	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.01801	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS2P4 Co
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

2202 0.0
38199 50.0
89028 100.0

Constant 0.8
Std Err of Y Est 6.940205
R Squared 0.990366
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001140
Std Err of Coef. 0.000112

Element:

ppm = -0.1 (ppm)

Filename:\SAIC\MS2P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4997	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.01801	3.5	1	1

.ot. Dil Fct. 105.1

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STANDARD ADDITIONS

SAMPLE: MS2P4 Cd
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

439 0.0
1712 50.0
3865 100.0

Constant -7.3
Std Err of Y Est 10.37279
R Squared 0.978481
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.028560
Std Err of Coef. 0.004235

Element:

ppm = 0.8 (ppm)

Filename:\SAIC\MS2P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4997	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)

15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.01801	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS2P4 Cu
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts	ppb
-----	-----
4399	0.0
13940	50.0
33026	100.0
-----	-----

Constant -7.7

Std Err of Y Est 13.36666

R Squared 0.964266

No. of Observations 3

Degrees of Freedom 1

X Coefficient(s) 0.003368

Std Err of Coef. 0.000648

Element:

ppm = 0.8 (ppm)

Filename:\SAIC\MS2P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4997	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
30.01801	3.5	1	1

Tot. Dil Fct. 105.1

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STANDARD ADDITIONS

SAMPLE: MS2P4 Fe
Dil. Fct. 90

DATE 03/31/96

Regression Output:

ABS Units	ppm
63	0.0
116	3.3
160	6.0

Constant	-3.90267
Std Err of Y Est	0.030604
R Squared	0.999948
No. of Observations	3
Degrees of Freedom	1

X Coefficient(s)	0.062126
Std Err of Coef.	0.000445

Element:

ppm = 351.5 (ppm)

Filename:\SAIC\MS2P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4997	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	6	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.01801	3	1	1

Tot. Dil Fct. 90.1

STANDARD ADDITIONS

SAMPLE: MS2P4 Li
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts	ppb	Constant	-7.2
-----	-----	Std Err of Y Est	14.74855
7567	0.0	R Squared	0.956496
151474	50.0	No. of Observations	3
217744	100.0	Degrees of Freedom	1
-----	-----	X Coefficient(s)	0.000455
Element:		Std Err of Coef.	0.000097
		ppm =	0.8 (ppm)

Filename:\SAIC\MS2P4

DILUTIONS

#1	#2	#3	#4
Wt. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4997	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.01801	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS2P4 Mn

DATE 03/30/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant -30.0

Std Err of Y Est 2.441661

R Squared 0.998807

No. of Observations 3

Degrees of Freedom 1

35000 0.0

87951 50.0

147643 100.0

X Coefficient(s) 0.000886

Std Err of Coef. 0.000030

Element:

ppm = 3.1 (ppm)

Filename:\SAIC\MS2P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4997	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.01801	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS2P4 Nd

DATE 03/30/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant -32.6

Std Err of Y Est 12.95298

R Squared 0.966444

No. of Observations 3

Degrees of Freedom 1

1053 0.0

1927 50.0

3634 100.0

X Coefficient(s) 0.037444

Std Err of Coef. 0.006977

Element:

ppm = 3.4 (ppm)

Filename:\SAIC\MS2P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4997	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.01801	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

AMPLE: MS2P4 Ni
 Dil. Fct. 105
 Counts ppb

 1565 0.0
 8346 50.0
 20265 100.0

 Element:

DATE 03/30/96
 Regression Output:
 Constant -2.5
 Std Err of Y Est 11.07847
 R Squared 0.975453
 No. of Observations 3
 Degrees of Freedom 1
 X Coefficient(s) 0.005216
 Std Err of Coef. 0.000827

ppm = 0.3 (ppm)

Filename:\SAIC\MS2P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4997	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.01801	3.5	1	1
Tot. Dil Fct. 105.1			

STANDARD ADDITIONS

SAMPLE: MS2P4 Sb
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

29 0.0
1568 50.0
4184 100.0

Constant 4.6
Std Err of Y Est 10.46548
R Squared 0.978094
No. of Observations 3
Degrees of Freedom 1
X Coefficient(s) 0.023540

Element:

Std Err of Coef. 0.003522

ppm = -0.5 (ppm)

Filename:\SAIC\MS2P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4997	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.01801	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS2P4 Se

DATE 03/31/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant -2.65784

Std Err of Y Est 3.785679

R Squared 0.997133

No. of Observations 3

Degrees of Freedom 1

0.0

50.0

100.0

X Coefficient(s) 0.001321

Std Err of Coef. 0.000070

Element:

ppm = 0.3 (ppm)

Filename:\SAIC\MS1P12

5.5 ppm best Est

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.52174	3.5	1	1

Tot. Dil Fct. 103.3

STANDARD ADDITIONS

SAMPLE: MS2P4 Sm
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

130 0.0
1296 50.0
2563 100.0

Constant -4.6
Std Err of Y Est 1.694255
R Squared 0.999425
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.041077
Std Err of Coef. 0.000984

Element:

ppm = 0.5 (ppm)

Filename:\SAIC\MS2P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4997	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.01801	3.5	1	1

Tot. Dil Fct. 105.1

Integrals for : ~~WGC-SD-1100~~ **PDB BLANK 2**

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	370	0	3588	15761	445597	34584	4514	10552
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	2540	642	9661	24341	24280	1637	1550	9238
Peak	Zn 64	Cu 65	Zn 66	Ga 69	As 75	Se 82	Rb 85	Sr 88
CPS	35404	4358	17340	1163	86	7258	1122	925
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sb 121	Sb 123	Cs 133
CPS	98	190	219	2384	791762	144	196	295
Peak	Ba 138	Nd 146	Sm 147	Tl 203	Tl 205	Pb 208	Bi 209	U 238
CPS	9655	17	57	28	34	1082	109	23

Integrals for MS2 04 - 103414

Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	7567	178	3393	17879	8755573	1095554	157458	110737
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	7805	6197	4274	195682	1029	636	8573	428
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	1964	3762	10854	31376	1250	1119	17	839
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	266862	29	53	315	53910	1053	130	41
Peak	Tl 205	Pb 208	Bi 209	U 238				
	83	1827	35	809				

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Integrals for: MS2 PA -601

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	151471	22429	19143	87088	5601171	926672	109023	77315
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	3900	59511	43837	87951	48853	38199	8346	13940
Peak	Zn 64	Cu 65	Zn 66	Ga 69	As 75	Se 82	Rb 85	Sr 88
CPS	6963	17265	2801	66681	2037	2077	23625	51888
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sb 121	Sb 123	Cs 133
CPS	8809	7370	1018	2112	71706	1568	1429	9250
Peak	Ba 138	Nd 146	Sm 147	Tl 203	Tl 205	Pb 208	Bi 209	U 238
CPS	39274	1927	1296	2500	5932	3964	3999	6882

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Integrals for : MS2 P4 +100 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	217744	39059	30891	122169	5197275	1134085	152082	101584
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	3634	90036	76103	147643	64724	89028	20265	33026
Peak	Zn 64	Cu 65	Zn 66	Ga 69	As 75	Se 82	Rb 85	Sr 88
CPS	13841	24842	5834	98014	4381	3159	58493	97879
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sb 121	Sb 123	Cs 133
CPS	18591	17409	1985	4265	89949	4164	2743	23755
Peak	Ba 138	Nd 146	Sm 147	Tl 203	Tl 205	Pb 208	Bi 209	U 238
CPS	66087	3634	2563	5591	13101	8086	10831	17811

STANDARD ADDITIONS

SAMPLE: MS3P3 Ag
Dil. Fct. 117

DATE 03/30/96

Regression Output:

COUNTS ppb

1192 0.0
8149 50.0
14930 100.0

Constant -8.88696
Std Err of Y Est 0.522999
R Squared 0.999945
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.007278
Std Err of Coef. 0.000053

Element:

ppm = 1.0 (ppm)

Filename:\SAIC\MS3P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4494	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil. Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
33.37783	3.5	1	1

Tot. Dil Fct. 116.8

STANDARD ADDITIONS

SAMPLE: MS3P3 B
 Dil. Fct. 117

DATE 03/30/96

Regression Output:

COUNTS ppb

 636 0.0
 11486 50.0
 24934 100.0

Constant -0.64247
 Std Err of Y Est 4.356794
 R Squared 0.996203
 No. of Observations 3
 Degrees of Freedom 1

X Coefficient(s) 0.004099
 Std Err of Coef. 0.000253

Element:

ppm = 0.1 (ppm)

Filename:\SAIC\MS3p3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4494	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
33.37783	3.5	1	1

Tot. Dil Fct. 116.8

STANDARD ADDITIONS

SAMPLE: MS3P3 Co
Dil. Fct. 117

DATE 03/30/96

Regression Output:

COUNTS	ppb
-----	-----
815	0.0
34169	50.0
54155	100.0
-----	-----

Constant	-4.56255
Std. Err of Y Est	10.12601
R Squared	0.979492
No. of Observations	3
Degrees of Freedom	1

X Coefficient(s)	0.001836
Std Err of Coef.	0.000265

Element:

ppm = 0.5 (ppm)

Filename:\SAIC\MS3p3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4494	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
33.37783	3.5	1	1

Tot. Dil Fct. 116.8

STANDARD ADDITIONS

SAMPLE: MS3P3 Cd
Dil. Fct. 117

DATE 03/30/96

Regression Output:

COUNTS ppb

607 0.0
2997 50.0
5301 100.0

Constant -13.2296
Std Err of Y Est 0.747920
R Squared 0.999888
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.021301
Std Err of Coef. 0.000225

Element:

ppm = 1.5 (ppm)

Filename:\SAIC\MS3P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4494	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
33.37783	3.5	1	1

Tot. Dil Fct. 116.8

STANDARD ADDITIONS

SAMPLE: MS3P3 Cu
Dil. Fct. 117

DATE 03/30/96

Regression Output:

COUNTS ppb

850 0.0

11722 50.0

19569 100.0

Element:

Constant -6.74026

Std Err of Y Est 6.568784

R Squared 0.991370

No. of Observations 3

Degrees of Freedom 1

X Coefficient(s) 0.005296

Std Err of Coef. 0.000494

ppm = 0.8 (ppm)

Filename:\SAIC\MS3p3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4494	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
33.37783	3.5	1	1

Tot. Dil Fct. 116.8

STANDARD ADDITIONS

SAMPLE: MS3P3 Fe
Dil. Fct. 90

DATE 03/31/96

Regression Output:

ABS Units ppm

43 0.0
110 4.3
170 8.0

Constant -2.70260
Std Err of Y Est 0.041035
R Squared 0.999947
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.063219

Std Err of Coef. 0.000456

Element:

ppm = 243.5 (ppm)

Filename:\SAIC\MS3P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	6	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03604	3	1	1

Tot. Dil Fct. 90.1

STANDARD ADDITIONS

SAMPLE: MS3P3 Li
Dil. Fct. 117

DATE 03/30/96
Regression Output:

COUNTS ppb

11834 0.0
67844 50.0
125092 100.0

Constant -10.2641
Std Err of Y Est 0.446238
R Squared 0.999960
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000882

Element:

Std Err of Coef. 0.000005

ppm ■ 1.2 (ppm)

Filename:\SAIC\MS3P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4494	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
33.37783	3.5	1	1

Tot. Dil Fct. 116.8

STANDARD ADDITIONS

SAMPLE: MS3P3 Mn
Dil. Fct. 117

DATE 03/30/96

Regression Output:

COUNTS ppb

30499 0.0
63581 50.0
104332 100.0

Constant -39.2559
Std Err of Y Est 4.232851
R Squared 0.996416
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001349
Std Err of Coef. 0.000080

Element:

ppm = 4.6 (ppm)

Filename:\SAIC\MS3P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4494	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
33.37783	3.5	1	1

Tot. Dil Fct. 116.8

STANDARD ADDITIONS

AMPLE: MS3P3 Nd
 il. Fct. 117

DATE 03/30/96

Regression Output:

COUNTS ppb

Constant -4.19238
 Std Err of Y Est 16.97345
 R Squared 0.942380

584 0.0
 1724 50.0
 4572 100.0

No. of Observations 3
 Degrees of Freedom 1

X Coefficient(s) 0.023630
 Std Err of Coef. 0.005843

Element:

ppm = 0.5 (ppm)

Filename:\SAIC\MS3P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4494	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
33.37783	3.5	1	1

Tot. Dil Fct. 116.8

STANDARD ADDITIONS

SAMPLE: MS3P3 Ni
Dil. Fct. 117

DATE 03/30/96

Regression Output:

COUNTS ppb

844 0.0
7148 50.0
12434 100.0

Constant -8.59536
Std Err of Y Est 3.581220
R Squared 0.997434
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.008605
Std Err of Coef. 0.000436

Element:

ppm = 1.0 (ppm)

Filename:\SAIC\MS3P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4494	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
33.37783	3.5	1	1

Tot. Dil Fct. 116.8

STANDARD ADDITIONS

SAMPLE: MS3P3 Sb

DATE 03/30/96

Dil. Fct. 117

COUNTS ppb

-----	-----
23	0.0
2291	50.0
4005	100.0
-----	-----

Regression Output:

Constant	-2.55726
Std Err of Y Est	5.661563
R Squared	0.993589
No. of Observations	3
Degrees of Freedom	1

X Coefficient(s)	0.024952
Std Err of Coef.	0.002004

Element:

ppm = 0.3 (ppm)

Filename:\SAIC\MS3P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4494	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
33.37783	3.5	1	1

Tot. Dil Fct. 116.8

STANDARD ADDITIONS

SAMPLE: MS3P3 Se
 Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

 0.0
 50.0
 100.0

Constant -2.65784
 Std Err of Y Est 3.785679
 R Squared 0.997133
 No. of Observations 3
 Degrees of Freedom 1

X Coefficient(s) 0.001321
 Std Err of Coef. 0.000070

Element:

ppm = 0.3 (ppm)

Filename:\SAIC\MS1P12

5.5 ppm best Est

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.52174	3.5	1	1

Tot. Dil Fct. 103.3

STANDARD ADDITIONS

SAMPLE: MS3P3 Sm
Dil. Fct. 117

DATE 03/30/96
Regression Output:

COUNTS	ppb	Constant	-0.39062
-----	-----	Std Err of Y Est	15.06568
277	0.0	R Squared	0.954605
1226	50.0	No. of Observations	3
3327	100.0	Degrees of Freedom	1
		X Coefficient(s)	0.031298
		Std Err of Coef.	0.006825
Element:		ppm	0.0 (ppm)

Filename:\SAIC\MS3P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4494	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
33.37783	3.5	1	1

Tot. Dil Fct. 116.8

Integrals for : MS3 +0.1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	11834	636	6355	23224	5512103	284851	54745	140644
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	10512	9452	4746	30499	21308	815	844	850
Peak	Zn 64	Cu 65	Zn 66	Ga 69	As 75	Se 82	Rb 85	Sr 88
CPS	3993	36123	1985	117502	115	1562	5296	11131
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sb 121	Sn 124	Cs 133
CPS	798	1192	659	607	79841	25	25	52
Peak	Ba 138	Nd 146	Sm 147	Tl 203	Tl 205	Pb 206	Pb 208	Pb 210
S	19269	584	277	17	228	264	260	1643

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Integrals for : WSS -60

Peak	Li	Be	B	C	Na	Mg	Mg	Ca
CPS	27444	11438	13617	48905	5305045	393723	55976	183398
Peak	Si	Si	Cr	Mn	Fe	Co	Ni	Cu
CPS	13372	58077	43948	63581	22634	34189	7148	11722
Peak	Zn	Cu	Zn	Se	As	Se	As	Sr
CPS	7368	28937	2892	100744	2820	2147	23921	33337
Peak	Ag	Ag	Ag	Ag	Ag	Sb	Sb	Cs
CPS	10158	3748	2801	2397	85229	2291	2726	11160
Peak	As	As	Sm	Ti	Ti	Pb	Bi	U
CPS	28325	7724	1226	3050	8596	4827	5597	12064

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Integrals for 1 VSS -100 f

Peak	Li 7	Se 9	B 10	B 11	Na 12	Mg 14	Mg 16	Ca 44
CPS	125092	24934	14009	6144	486025	100174	50154	161784
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	10191	66194	10002	104000	20479	54155	12434	19569
Peak	Zn 64	As 65	Se 66	Ga 69	As 75	Se 82	Rb 85	Sr 88
CPS	10099	94787	7131	150658	3073	1620	35518	53613
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sb 121	Sb 123	Cs 133
CPS	17235	14930	2529	5301	92166	4005	3075	25046
Peak	Ba 133	Hc 146	Sm 147	Tl 203	Tl 205	Pb 206	Pb 208	U 238
CPS	37599	4572	3327	5270	14693	6194	10153	19763

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Integrals for : NS4 +0.1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	4518	172	3857	18105	9211210	489982	89320	82439
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	7043	10890	8466	89607	52257	1613	1291	3714
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	9152	9324	3899	178542	636	428	7721	261
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	1642	2666	5280	19295	410	287	0	607
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	193214	17	95	226	25850	446	53	47
Peak	Tl 205	Pb 208	Bi 209	U 238				
S	53	1297	0	541				

STANDARD ADDITIONS

SAMPLE: MS4P4 Ag
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

410 0.0
16596 50.0
41120 100.0

Constant 3.062775
Std Err of Y Est 8.303665
R Squared 0.986209
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.002422
Std Err of Coef. 0.000286

Element:

ppm = -0.3 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)

15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.99400	3.5	1	1

Tot. Dil Fct. 105.0

STANDARD ADDITIONS

SAMPLE: MS4P4 B
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

3557 0.0
4599 50.0
8797 100.0

Constant -46.2100
Std Err of Y Est 23.22433
R Squared 0.892126
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.017025
Std Err of Coef. 0.005920

Element:

ppm = 4.9 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03604	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS4P4 Cd
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts	ppb
-----	-----
607	0.0
10324	50.0
22678	100.0
-----	-----

Constant	-0.51853
Std Err of Y Est	4.866107
R Squared	0.995264
No. of Observations	3
Degrees of Freedom	1

X Coefficient(s) 0.004509
Std Err of Coef. 0.000311

Element:

ppm = 0.1 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
30.03604	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS4P4 Co
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

1613 0.0
47393 50.0
93811 100.0

Constant -1.63334
Std Err of Y Est 0.282501
R Squared 0.999984
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001084
Std Err of Coef. 0.000004

Element:

ppm = 0.2 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03604	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS4P4 Cu
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

3714 0.0
20612 50.0
45471 100.0

Constant -5.04982
Std Err of Y Est 7.736554
R Squared 0.988029
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.002366
Std Err of Coef. 0.000260

Element:

ppm = 0.5 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03604	3.5	1	1

Tot. Dil Fct. 105.1

duplicate?

STANDARD ADDITIONS

SAMPLE: MS4P4 Fe
Dil. Fct. 90

DATE 03/31/96

Regression Output:

ABS Units ppm

51 0.0
107 3.3

Constant -3.16151
Std Err of Y Est 0.092184
R Squared 0.999533
No. of Observations 3
Degrees of Freedom 1

149 6.0

X Coefficient(s) 0.061360
Std Err of Coef. 0.001325

Element:

ppm = 284.9 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4993	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	6	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
30.04205	3	1	1

Tot. Dil Fct. 90.1

STANDARD ADDITIONS

SAMPLE: MS4P4 Li
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

4518 0.0
18524 50.0
46506 100.0

Constant -3.24615
Std Err of Y Est 13.34464
R Squared 0.964384
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.002296
Std Err of Coef. 0.000441

Element:

ppm = 0.3 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03604	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS4P4 Nd
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

446 0.0
1773 50.0
5125 100.0

Constant 0.755660
Std Err of Y Est 17.14136
R Squared 0.941234
No. of Observations 3
Degrees of Freedom 1
X Coefficient(s) 0.020116

Element:

Std Err of Coef. 0.005026

Filename:\SAIC\MS4P4

ppm = -0.1 (ppm)

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03604	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS4P4 Ni
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts	ppb	Constant	-5.52378
-----	-----	Std Err of Y Est	1.719410
1291	0.0	R Squared	0.999408
11170	50.0	No. of Observations	3
21918	100.0	Degrees of Freedom	1

X Coefficient(s) 0.004845

Std Err of Coef. 0.000117

Element:

ppm = 0.6 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03604	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS4P4 Mn
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

89607 0.0
133493 50.0
190223 100.0

Constant -86.1910
Std Err of Y Est 5.197342
R Squared 0.994597
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000988
Std Err of Coef. 0.000072

Element:

ppm = 9.1 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03604	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS4P4 Sb
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

Constant 8.487307
Std Err of Y Est 15.51347
R Squared 0.951866

17 0.0
5036 50.0
16459 100.0

No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.005789
Std Err of Coef. 0.001301

Element:

ppm = -0.9 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03604	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS4P4 Se

DATE 03/31/96

Dil. Fct. 105

Counts ppb

261 0.0

3970 50.0

5625 100.0

Element:

Filename:\SAIC\MS4P4

Regression Output:

Constant -8.39373

Std Err of Y Est 15.26419

R Squared 0.953400

No. of Observations 3

Degrees of Freedom 1

X Coefficient(s) 0.017774

Std Err of Coef. 0.003929

ppm = 0.9 (ppm)

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03604	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS4P4 Sm
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

53 0.0
892 50.0
2434 100.0

Constant 4.030735
Std Err of Y Est 11.88229
R Squared 0.971762
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.040813
Std Err of Coef. 0.006957

Element:

ppm = -0.4 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03604	3.5	1	1

Tot. Dil Fct. 105.1

Integrals for : PRO BLANK 3 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	248	28	2708	14769	568718	41496	5336	7501
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	1996	642	11629	25310	24825	1660	1753	8352
Peak	Zn 64	Cu 65	Zn 66	Ga 69	As 75	Se 82	Rb 85	Sr 88
CPS	29305	3559	16124	1232	185	6442	885	850
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sb 121	Sb 123	Cs 133
CPS	63	133	208	2193	708599	34	92	277
Peak	Ba 138	Nd 146	Sb 147	Tl 203	Tl 205	Pb 208	Bi 209	U 238
	9441	0	17	17	46	821	28	5

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Integrals for : MS4 +50 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	18524	6215	4899	23023	9149260	538853	82389	91163
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	5542	50829	43843	133493	54372	47393	11170	20612
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	20800	13564	8793	186592	3732	5000	10806	3970
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	2327	3137	21047	28914	16596	20642	3732	10324
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	222087	7299	5036	17430	32688	1773	892	8542
Peak	Tl 205	Pb 208	Bi 209	U 238				
IS	15691	9603	11914	10380				

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Integrals for : MS4 +100 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	46506	15049	9097	40714	9240287	575506	86492	100342
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	6816	104476	88516	190223	55385	93811	21918	45471
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	28920	25959	16530	264721	6643	9668	14654	5625
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	2899	3351	48406	57697	41120	42126	9579	22678
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	292231	16459	12098	45835	43925	5125	2434	14916
Peak	Tl 205	Pb 208	Bi 209	U 238				
	33149	21542	26949	21955				

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STANDARD ADDITIONS

SAMPLE: MS5P4 Ag
Dil. Fct. 102

DATE 03/31/96

Regression Output:

Counts ppb

154 0.0
13129 50.0
25724 100.0

Constant -0.84621
Std Err of Y Est 0.606682
R Squared 0.999926
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.003910
Std Err of Coef. 0.000033

Element:

ppm = 0.1 (ppm)

Filename:\SAIC\MS5P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Algt. from #1(g)	Algt. from #2(g)	Algt. from #3(g)
0.5172	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
29.00232	3.5	1	1

Tot. Dil Fct. 101.5

STANDARD ADDITIONS

SAMPLE: MS5P4 B
Dil. Fct. 103

DATE 03/31/96

Regression Output:

Counts ppb

0.0
50.0
100.0

Constant -2.65784
Std Err of Y Est 3.785679
R Squared 0.997133
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001321
Std Err of Coef. 0.000070

Element:

ppm = 0.3 (ppm)

Filename:\SAIC\MS1P12

5.5 ppm best Est

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.52174	3.5	1	1

Tot. Dil Fct. 103.3

STANDARD ADDITIONS

SAMPLE: MS5P4 Cd
Dil. Fct. 102

DATE 03/31/96

Regression Output:

Counts ppb

1154 0.0
7203 50.0
13313 100.0

Constant -9.40679
Std Err of Y Est 0.204811
R Squared 0.999991
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.008224
Std Err of Coef. 0.000023

Element:

ppm = 1.0 (ppm)

Filename:\SAIC\MS5P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5172	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)

15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.00232	3.5	1	1

Tot. Dil Fct. 101.5

STANDARD ADDITIONS

SAMPLE: MS5P4 Co
Dil. Fct. 102

DATE 03/31/96

Regression Output:

Counts ppb

1672 0.0
64878 50.0
124091 100.0

Constant -1.89102
Std Err of Y Est 1.331367
R Squared 0.999645
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000816
Std Err of Coef. 0.000015

Element:

ppm = 0.2 (ppm)

Filename:\SAIC\MS5P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5172	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
29.00232	3.5	1	1

Tot. Dil Fct. 101.5

STANDARD ADDITIONS

SAMPLE: MS5P4 Cu
Dil. Fct. 102

DATE 03/31/96

Regression Output:

Counts ppb

2333 0.0
32615 50.0
55350 100.0

Constant -6.39208
Std Err of Y Est 5.791909
R Squared 0.993290
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001873
Std Err of Coef. 0.000153

Element:

ppm = 0.6 (ppm)

Filename:\SAIC\MS5P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5172	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.00232	3.5	1	1

Tot. Dil Fct. 101.5

STANDARD ADDITIONS

SAMPLE: MS5P4 Fe
Dil. Fct. 90

DATE 03/31/96

Regression Output:

ABS Units	ppm	Constant	-2.50215
-----	-----	Std Err of Y Est	0.370923
39	0.0	R Squared	0.992445
100	3.3	No. of Observations	3
136	6.0	Degrees of Freedom	1

X Coefficient(s) 0.061307

Std Err of Coef. 0.005348

Element:

ppm = 225.5 (ppm)

Filename:\SAIC\MS5P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4993	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	6	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.04205	3	1	1

Tot. Dil Fct. 90.1

STANDARD ADDITIONS

SAMPLE: MS5P4 Li
Dil. Fct. 102

DATE 03/31/96

Regression Output:

Counts ppb

6251 0.0
37297 50.0
64688 100.0

Constant -11.6590
Std Err of Y Est 2.551766
R Squared 0.998697
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001709
Std Err of Coef. 0.000061

Element:

ppm = 1.2 (ppm)

Filename:\SAIC\MS5P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5172	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.00232	3.5	1	1

Tot. Dil Fct. 101.5

STANDARD ADDITIONS

SAMPLE: MS5P4 Mn
Dil. Fct. 102

DATE 03/31/96

Regression Output:

Counts	ppb
-----	-----
84686	0.0
156549	50.0
236549	100.0

Constant	-54.7714
Std Err of Y Est	2.186396
R Squared	0.999043
No. of Observations	3
Degrees of Freedom	1

X Coefficient(s)	0.000657
Std Err of Coef.	0.000020

Element:

ppm = 5.6 (ppm)

Filename:\SAIC\MS5P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Algt. from #1(g)	Algt. from #2(g)	Algt. from #3(g)
0.5172	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.00232	3.5	1	1

Tot. Dil Fct. 101.5

STANDARD ADDITIONS

SAMPLE: MS5P4 Nd
Dil. Fct. 102

DATE 03/31/96

Regression Output:

Counts ppb

154 0.0
2404 50.0
4488 100.0

Constant -4.16517
Std Err of Y Est 1.563282
R Squared 0.999511
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.023062
Std Err of Coef. 0.000509

Element:

ppm = 0.4 (ppm)

Filename:\SAIC\MS5P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5172	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.00232	3.5	1	1

Tot. Dil Fct. 101.5

STANDARD ADDITIONS

SAMPLE: MS5P4 Ni
Dil. Fct. 102

DATE 03/31/96

Regression Output:

Counts ppb

1446 0.0
16072 50.0
28938 100.0

Constant -6.24984
Std Err of Y Est 2.611765
R Squared 0.998635
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.003632

Element:

Std Err of Coef. 0.000134

ppm = 0.6 (ppm)

Filename:\SAIC\MS5P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5172	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.00232	3.5	1	1

Tot. Dil Fct. 101.5

STANDARD ADDITIONS

SAMPLE: MS5P4 Sb
Dil. Fct. 102

DATE 03/31/96

Regression Output:

Counts ppb

130 0.0
7221 50.0
13218 100.0

Constant -2.26468
Std Err of Y Est 3.408499
R Squared 0.997676
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.007622
Std Err of Coef. 0.000367

Element:

ppm = 0.2 (ppm)

Filename:\SAIC\MS5P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5172	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.00232	3.5	1	1

Tot. Dil Fct. 101.5

STANDARD ADDITIONS

SAMPLE: MS5P4 Se
Dil. Fct. 102

DATE 03/31/96

Regression Output:

Counts ppb

Constant 0.349933
Std Err of Y Est 11.30772
R Squared 0.974427

190 0.0
1404 50.0
3565 100.0

No. of Observations 3
Degrees of Freedom 1
X Coefficient(s) 0.028871
Std Err of Coef. 0.004677

Element:

ppm = -0.0 (ppm)

Filename:\SAIC\MS5P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5172	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.00232	3.5	1	1

Tot. Dil Fct. 101.5

STANDARD ADDITIONS

SAMPLE: MS5P4 Sm
Dil. Fct. 102

DATE 03/31/96

Regression Output:

Counts ppb

17 0.0
1398 50.0
2607 100.0

Constant -1.68720
Std Err of Y Est 2.709156
R Squared 0.998532
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.038553
Std Err of Coef. 0.001478

Element:

ppm = 0.2 (ppm)

Filename:\SAIC\MS5P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5172	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
29.00232	3.5	1	1

Tot. Dil Fct. 101.5

Integrals for : PRO BLANK 22 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	101	446	128588	623251	218879	19278	2869	8287
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	1130	523	5858	19513	6441	940	869	4244
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	18490	2178	9103	2029	5	315	13736	107
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	2726	4369	595	291	77	202	220	1595
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	183988	77	119	196	2910	5	23	5
Peak	Tl 205	Pb 208	Bi 209	U 238				
s	11	220	11	0				

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Integrals for : MS5 +0.1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	6251	898	136539	684088	11040498	432994	117133	119301
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	9025	16810	11324	84688	57717	1672	1446	2333
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	7263	6174	4548	172855	1434	383	10419	190
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	2095	3899	3202	13482	154	279	160	1154
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	143931	130	125	89	33855	154	17	53
Peak	Tl 205	Pb 208	Bi 209	U 238				
	77	6054	29	553				

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Integrals for : MS5 +50 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	37297	11277	117018	551835	11281343	502659	144554	138017
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	9484	87892	72408	158549	58139	64878	16072	32815
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	17459	20369	9710	219413	1773	4292	13123	1404
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	3274	4143	20989	35758	13129	12533	2904	7203
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	158303	7221	5697	17817	50187	2404	1398	3250
Peak	Tl 205	Pb 208	Bi 209	U 238				
	7870	9980	7322	7150				

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Integrals for : MS5 +100 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	64688	24100	112986	546417	10994134	490649	132959	138820
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	10270	163336	135647	236549	58274	124091	28938	55350
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	24437	27675	13873	251547	4012	9109	17352	3585
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	3833	4256	34815	51635	25724	23948	5381	13313
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	167512	13218	10681	37087	56409	4488	2807	6030
Peak	Tl 205	Pb 208	Bi 209	U 238				
	13338	13361	12718	12284				

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STANDARD ADDITIONS

SAMPLE: MS6P3 Ag
Counts 105

DATE 03/30/96

Regression Output:

ABS units ppb

148 0.0
10162 50.0
17350 100.0

Constant -3.12052
Std Err of Y Est 6.676868
R Squared 0.991083
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.005761
Std Err of Coef. 0.000546

Element: Ag

ppm = 0.3 (ppm)
% err = 1.2

Filename: \SAIC\MS6P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.501	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g):
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.94011	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS6P3 B
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

1200 0.0
8290 50.0
10480 100.0

Constant -15.6318
Std Err of Y Est 20.61937
R Squared 0.914968
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.009859
Std Err of Coef. 0.003005

Element:

ppm = 1.6 (ppm)
% err = 1.2

Filename:\SAIC\MS6P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.501	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil. Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.94011	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS6P3 Cd
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS	ppb	Constant	-14.2377
-----	-----	Std Err of Y Est	15.30781
653	0.0	R Squared	0.953134
4763	50.0	No. of Observations	3
6592	100.0	Degrees of Freedom	1
-----	-----	X Coefficient(s)	0.016048
Element:		Std Err of Coef.	0.003558
		ppm =	1.5 (ppm)
Filename:\SAIC\MS6P3		% err =	1.2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.501	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)

15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.94011	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS6P3 Co
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

2066 0.0
44204 50.0
64024 100.0

Constant -6.87802
Std Err of Y Est 14.39752
R Squared 0.958542
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001547
Std Err of Coef. 0.000321

Element:

ppm = 0.7 (ppm)
% err = 1.2

Filename:\SAIC\MS6P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.501	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
9.94011	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS6P3 Cu
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

2784 0.0
14715 50.0
21499 100.0

Constant -17.7512
Std Err of Y Est 11.08873
R Squared 0.975408
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.005211
Std Err of Coef. 0.000827

Element:

Filename:\SAIC\MS6P3

ppm = 1.9 (ppm)
% err = 1.2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.501	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.94011	3.5	1	1

Tot. Dil Fct. 104.8

SAMPLE: MS6P3 Fe STANDARD ADDITIONS DATE 03/31/96
 Dil. Fct. 90 Regression Output:

ABS Units	ppm	Constant	-1.32736
-----	-----	Std Err of Y Est	0.070554
21	0.0	R Squared	0.999726
76	3.3	No. of Observations	3
118	6.0	Degrees of Freedom	1
-----	-----	X Coefficient(s)	0.062023
Element:		Std Err of Coef.	0.001025

Filename:\SAIC\MS6P3 ppm = 119.2 (ppm)

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.501	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	6	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.94011	3	1	1

Tot. Dil Fct. 89.8

SAMPLE: MS6P3 Li STANDARD ADDITIONS DATE 03/30/96
 Dil. Fct. 105 Regression Output:

COUNTS	ppb	Constant	-9.50398
-----	-----	Std Err of Y Est	2.667415
8839	0.0	R Squared	0.998576
64239	50.0	No. of Observations	3
112839	100.0	Degrees of Freedom	1
-----	-----	X Coefficient(s)	0.000960
Element:		Std Err of Coef.	0.000036
		ppm =	1.0 (ppm)

Filename:\SAIC\MS6P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.501	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
il Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.94011	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS6P3 Mn
Dil. Fct. 105

DATE 03/30/96
Regression Output:

COUNTS	ppb	Constant	-19.3607
-----	-----	Std Err of Y Est	18.39043
12793	0.0	R Squared	0.932358
69244	50.0	No. of Observations	3
89779	100.0	Degrees of Freedom	1
-----	-----	X Coefficient(s)	0.001211
Element:		Std Err of Coef.	0.000326
		ppm =	2.0 (ppm)
Filename:\SAIC\MS6P3			

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.501	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.94011	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS6P3 Nd
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

11 0.0
3446 50.0
5186 100.0

Constant -3.74941
Std Err of Y Est 13.13875
R Squared 0.965474
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.018656
Std Err of Coef. 0.003528

Element:

ppm = 0.4 (ppm)

Filename:\SAIC\MS6P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.501	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil. Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.94011	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS6P3 Ni
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

2401 0.0
10628 50.0
13946 100.0

Constant -23.4566
Std Err of Y Est 16.85838
R Squared 0.943158
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.008169

Element:

Std Err of Coef. 0.002005

ppm = 2.5 (ppm)

Filename:\SAIC\MS6P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.501	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.94011	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS6P3 Sb
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

104 0.0
1996 50.0
3449 100.0

Constant -4.98079
Std Err of Y Est 5.342562
R Squared 0.994291
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.029724
Std Err of Coef. 0.002252

Element:

ppm = 0.5 (ppm)

Filename:\SAIC\MS6P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.501	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.94011	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS6P3 Se
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

0.0
50.0
100.0

Constant -2.65784
Std Err of Y Est 3.785679
R Squared 0.997133
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001321
Std Err of Coef. 0.000070

Element:

ppm = 0.3 (ppm)

Filename:\SAIC\MS1P12

5.5 ppm best Est

DILUTIONS

#1	#2	#3	#4
Sampl. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.52174	3.5	1	1

Tot. Dil Fct. 103.3

STANDARD ADDITIONS

SAMPLE: MS6P3 Sm
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

Constant -4.06019
Std Err of Y Est 16.80979
R Squared 0.943486

12 0.0
3675 50.0
5157 100.0

No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.018337
Std Err of Coef. 0.004488

Element:

ppm = 0.4 (ppm)

Filename:\SAIC\MS6P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.501	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.94011	3.5	1	1

Tot. Dil Fct. 104.8

Integrals for : PRO BLANK 8 1

Peak	Li	7	Be	9	B	10	B	11	Na	23	Mg	24	Mg	25	Ca	44
CPS		178		5		1565		8144		343426		27766		3512		3613
Peak	Sc	45	V	51	Cr	52	Mn	55	Fe	57	Co	59	Ni	60	Cu	63
CPS		285		428		5530		14919		10419		1107		1005		5750
Peak	Zn	64	Cu	65	Zn	66	Ga	69	Se	74	As	75	Se	76	Se	77
CPS		28451		2690		17306		2756		17		119		11706		196
Peak	Se	78	Se	82	Rb	85	Sr	88	Ag	107	Ag	109	Cd	111	Cd	114
CPS		2279		5072		767		767		35		35		166		1631
Peak	In	115	Sb	121	Sb	123	Cs	133	Ba	138	Nd	146	Sm	147	Tl	203
CPS		582307		35		35		214		4697		0		5		23
Peak	Tl	205	Pb	208	Bi	209	U	238								
		59		1184		0		11								

MSG+0
MSG+0

Integrals for : ~~MSG+0~~

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	8839	439	4149	20657	6558376	11259	29489	392852
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	18468	16825	7559	12793	16852	2066	2401	2784
Peak	Zn 64	Cu 65	Zn 66	Ga 69	As 75	Se 82	Rb 85	Sr 88
CPS	6615	56327	3680	206392	115	5077	868	3924
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sc 121	Sc 123	Cs 133
CPS	671	248	486	653	128753	123	104	81
Peak	Ba 138	Nd 146	Sm 147	Tl 203	Tl 205	Pb 208	Bi 209	U 238
IS	1157	11	1134	28	11	231	63	995

Integrals for : MS6 +50 :

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	64239	13183	11290	41117	6212733	65050	37650	287472
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	12839	74011	54005	69244	15880	44202	10628	14715
Peak	Zn 64	Cu 65	Zn 66	Ga 69	As 75	Se 82	Rb 85	Sr 88
CPS	9996	51933	5220	221991	2974	3721	34637	37100
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sb 121	Sb 123	Cs 133
CPS	12237	16262	1643	4763	150570	4039	1996	25108
Peak	Ba 133	Nd 146	Sm 147	Tl 203	Tl 205	Pb 208	Bi 209	U 238
	17252	3466	3875	4462	9516	5788	8424	15760

Integrals for : MS6 +100 :

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	112834	20605	13484	55652	6399679	89195	33828	217010
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	8699	92587	82250	89779	11067	64024	13946	21499
Peak	Zn 64	Cu 65	Zn 66	Ga 69	As 75	Se 82	Rb 85	Sr 88
CPS	11311	52149	11716	175819	4387	1904	52402	44024
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sb 121	Sb 123	Cs 133
CPS	17171	17449	7474	6592	130203	4664	3449	35937
Peak	Ba 138	Nd 146	Sm 147	Tl 203	Tl 205	Pb 208	Bi 209	U 238
S	24321	5185	5157	8557	15469	8885	23248	21977

STANDARD ADDITIONS

SAMPLE: MS7P3 Ag
Dil. Fct. 102

DATE 03/30/96

Regression Output:

Counts ppb

553 0.0
24813 50.0
59903 100.0

Constant 2.635233
Std Err of Y Est 7.408584
R Squared 0.989022
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001666
Std Err of Coef. 0.000175

Element:

ppm = -0.3 (ppm)

Filename:\SAIC\MS7P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5162	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.05850	3.5	1	1

Tot. Dil Fct. 101.7

STANDARD ADDITIONS

SAMPLE: MS7P3 B
Dil. Fct. 102

DATE 03/30/96

Regression Output:

Counts ppb

4000 0.0
46193 50.0
67537 100.0

Constant -9.62450
Std Err of Y Est 13.16211
R Squared 0.965351
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001519
Std Err of Coef. 0.000287

Element:

ppm = 1.0 (ppm)

Filename:\SAIC\MS7P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5162	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
29.05850	3.5	1	1

Tot. Dil Fct. 101.7

STANDARD ADDITIONS

SAMPLE: MS7P3 Cd

DATE 03/30/96

Dil. Fct. 102

Regression Output:

Counts ppb

Constant 1.151984

Std Err of Y Est 6.283232

R Squared 0.992104

No. of Observations 3

Degrees of Freedom 1

535 0.0

13016 50.0

30059 100.0

X Coefficient(s) 0.003360

Std Err of Coef. 0.000299

Element:

ppm = -0.1 (ppm)

Filename:\SAIC\MS7P3

DILUTIONS

#1	#2	#3	#4
Wt. (g)	Algt. from #1(g)	Algt. from #2(g)	Algt. from #3(g)
0.5162	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
29.05850	3.5	1	1

Tot. Dil Fct. 101.7

STANDARD ADDITIONS

SAMPLE: MS7P3 Co
Dil. Fct. 102

DATE 03/30/96

Regression Output:

Counts ppb

Constant 1.342658
Std Err of Y Est 6.251785
R Squared 0.992183
No. of Observations 3
Degrees of Freedom 1

2035 0.0
55751 50.0
128984 100.0

X Coefficient(s) 0.000781
Std Err of Coef. 0.000069

Element:

ppm = -0.1 (ppm)

Filename:\SAIC\MS7P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5162	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.05850	3.5	1	1

Tot. Dil Fct. 101.7

STANDARD ADDITIONS

SAMPLE: MS7P3 Cu
Dil. Fct. 102

DATE 03/30/96

Regression Output:

Counts ppb

2434 0.0
23371 50.0
52811 100.0

Constant -1.52910
Std Err of Y Est 6.858227
R Squared 0.990592
No. of Observations 3
Degrees of Freedom 1
X Coefficient(s) 0.001966

Element: Std Err of Coef. 0.000191
ppm = 0.2 (ppm)
Filename: \SAIC\MS7P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5162	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.05850	3.5	1	1

Tot. Dil Fct. 101.7

STANDARD ADDITIONS

SAMPLE: MS7P3 Fe
Dil. Fct. 87

DATE 03/31/96

Regression Output:

ABS Units ppm

62 0.0
126 4.3
183 8.0

Constant -4.10145
Std Err of Y Est 0.032081
R Squared 0.999968
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.066351

Std Err of Coef. 0.000374

Element:

ppm = 357.5 (ppm)

Filename:\SAIC\MS7P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5162	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	6	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.05850	3	1	1

Tot. Dil Fct. 87.2

STANDARD ADDITIONS

SAMPLE: MS7P3 Li
Dil. Fct. 102

DATE 03/30/96

Regression Output:

Counts ppb

9372 0.0
48843 50.0
83770 100.0

Constant -13.5360
Std Err of Y Est 2.491905
R Squared 0.998758
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001342
Std Err of Coef. 0.000047

Element:

ppm = 1.4 (ppm)

Filename:\SAIC\MS7P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5162	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.05850	3.5	1	1

Tot. Dil Fct. 101.7

STANDARD ADDITIONS

SAMPLE: MS7P3 Mn
Dil. Fct. 102

DATE 03/30/96

Regression Output:

Counts ppb

Constant -57.5592
Std Err of Y Est 11.02862
R Squared 0.975673

99976 0.0
156021 50.0
254262 100.0

No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000632
Std Err of Coef. 0.000099

Element:

ppm = 5.9 (ppm)

Filename:\SAIC\MS7P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5162	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.05850	3.5	1	1

Tot. Dil Fct. 101.7

STANDARD ADDITIONS

SAMPLE: MS7P3 Nd

DATE 03/30/96

Dil. Fct. 102

Regression Output:

Counts ppb

Constant -2.50173

Std Err of Y Est 8.768688

R Squared 0.984622

517 0.0

No. of Observations 3

3440 50.0

Degrees of Freedom 1

7978 100.0

X Coefficient(s) 0.013196

Std Err of Coef. 0.001649

Element:

ppm = 0.3 (ppm)

Filename:\SAIC\MS7P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5162	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.05850	3.5	1	1

Tot. Dil Fct. 101.7

STANDARD ADDITIONS

SAMPLE: MS7P3 Ni

DATE 03/30/96

Dil. Fct. 102

Counts ppb

-----	-----
1369	0.0
13123	50.0
28970	100.0
-----	-----

Element:

Filename:\SAIC\MS7P3

Regression Output:

Constant	-2.10648
Std Err of Y Est	6.031917
R Squared	0.992723
No. of Observations	3
Degrees of Freedom	1
X Coefficient(s)	0.003596
Std Err of Coef.	0.000307

ppm = 0.2 (ppm)

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5162	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.05850	3.5	1	1

Tot. Dil Fct. 101.7

STANDARD ADDITIONS

SAMPLE: MS7P3 Sb

DATE 03/30/96

Dil. Fct. 102

Regression Output:

Counts ppb

Constant 3.548910

Std Err of Y Est 7.821996

R Squared 0.987763

No. of Observations 3

Degrees of Freedom 1

47 0.0

7965 50.0

19665 100.0

X Coefficient(s) 0.005034

Std Err of Coef. 0.000560

Element:

ppm = -0.4 (ppm)

Filename:\SAIC\MS7P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5162	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
29.05850	3.5	1	1

Tot. Dil Fct. 101.7

STANDARD ADDITIONS

SAMPLE: MS7P3 Se
Dil. Fct. 102

DATE 03/30/96

Regression Output:

Counts ppb

190 0.0
3024 50.0
5697 100.0

Constant -3.92205
Std Err of Y Est 1.193365
R Squared 0.999715
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.018153
Std Err of Coef. 0.000306

Element:

ppm = 0.4 (ppm)

Filename:\SAIC\MS7P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5162	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.05850	3.5	1	1

Tot. Dil Fct. 101.7

STANDARD ADDITIONS

SAMPLE: MS7P3 Sm

DATE 03/30/96

Dil. Fct. 102

Regression Output:

Counts ppb

Constant -0.81584

Std Err of Y Est 4.581250

R Squared 0.995802

No. of Observations 3

Degrees of Freedom 1

125 0.0

2035 50.0

4429 100.0

X Coefficient(s) 0.023136

Std Err of Coef. 0.001502

Element:

ppm = 0.1 (ppm)

Filename:\SAIC\MS7P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5162	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
29.05850	3.5	1	1

Tot. Dil Fct. 101.7

Integrals for : PRO BLANK 12 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	285	17	1381	7783	315029	25149	3012	3542
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	303	327	6054	14483	10514	726	928	5506
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	29410	2837	16459	3351	41	119	9919	208
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	2452	5625	767	488	95	113	214	2047
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	606771	65	47	220	4586	0	5	5
Peak	Tl 205	Pb 208	Bi 209	U 238				
S	23	869	11	23				

Integrals for : MS7 +0.1

Peak	Li 7	Be 9	B 10	B 11	Ne 23	Mg 24	Mg 25	Ca 44
CPS	9372	250	4500	20842	11150503	728136	105087	71612
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	4821	12706	9258	99936	70024	2035	1369	2434
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	7037	3625	3887	167325	750	482	8269	190
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	1696	2613	5739	23622	553	357	23	535
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Hd 146	Sm 147	Tl 203
CPS	257896	47	386	160	47133	517	125	29
Peak	Tl 205	Pb 208	Bi 209	U 238				
'S	65	1494	41	880				

Integrals for : MS7 +50 t

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	48843	14030	46693	212476	12117324	913265	127904	87287
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	4821	66524	54450	156021	73413	55751	13123	23371
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	18032	17044	9710	201791	3018	5286	11509	3024
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	2506	3077	29737	53108	24813	23645	5387	13016
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Hd 146	Sm 147	Tl 203
CPS	287528	7965	5834	25768	58178	3440	2035	8037
Peak	Tl 205	Pb 208	Bi 209	U 238				
	19338	11950	13654	15971				

Integrals for : MS7 +00 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	83770	23960	68037	328202	12675335	947033	136265	90280
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	5423	147012	127539	254282	82875	128984	28970	52811
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	36179	29285	20273	301042	5405	10283	15214	5697
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	3619	3964	57967	96110	59903	60052	13004	30059
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Hd 146	Sm 147	Tl 203
CPS	301255	19665	15047	57205	86087	7978	4429	23104
Peak	Tl 205	Pb 208	Bi 209	U 238				
CPS	53488	33532	38292	37041				

STANDARD ADDITIONS

SAMPLE: MS7P4 Ag
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts	ppb
-----	-----
3000	0.0
22155	50.0
60656	100.0
-----	-----

Constant	2.183611
Std Err of Y Est	13.44840
R Squared	0.963828
No. of Observations	3
Degrees of Freedom	1
X Coefficient(s)	0.001671
Std Err of Coef.	0.000323

Element:

ppm = 0.2 (ppm)

Filename:\SAIC\MS7P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5004	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
29.97601	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS7P4 B
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

10000 0.0
25000 50.0
42000 100.0

Constant -30.1040
Std Err of Y Est 2.549892
R Squared 0.998699
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.003120
Std Err of Coef. 0.000112

Element:

ppm = 3.2 (ppm)

Filename: \SAIC\MS7P4

Blnk Corr

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5004	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.97601	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS7P4 Cd
Dil. Fct. 105

DATE 03/31/96
Regression Output:

Counts ppb

7000 0.0

Constant -50.1017
Std Err of Y Est 6.832970
R Squared 0.990662
No. of Observations 3

15475 50.0
21510 100.0

Degrees of Freedom 1
X Coefficient(s) 0.006827
Std Err of Coef. 0.000662

Element:

ppm = 5.3 (ppm)
BestEst

Filename:\SAIC\MS7P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5004	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.97601	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS7P4 Co
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

18385 0.0
119847 50.0
163245 100.0

Constant -15.8457
Std Err of Y Est 15.94242
R Squared 0.949167
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000655
Std Err of Coef. 0.000151

Element:

ppm = 1.7 (ppm)

Filename:\SAIC\MS7P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5004	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.97601	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

AMPLE: MS7P4 Cu
Dil. Fct. 105

DATE 03/31/96
Regression Output:

Counts	ppb	Constant	-39.0028
-----	-----	Std Err of Y Est	18.39224
31967	0.0	R Squared	0.932345
47982	50.0	No. of Observations	3
92013	100.0	Degrees of Freedom	1
-----	-----	X Coefficient(s)	0.001552
		Std Err of Coef.	0.000418

Element:

ppm = 4.1 (ppm)

Filename:\SAIC\MS7P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5004	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.97601	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS7P4 Fe
Dil. Fct. 90

DATE 03/31/96

Regression Output:

ABS Units ppm

47 0.0
115 4.3
191 8.0

Constant -2.44015
Std Err of Y Est 0.403527
R Squared 0.994953
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.055616
Std Err of Coef. 0.003960

Element:

ppm = 219.4 (ppm)

Filename:\SAIC\MS7P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5004	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	6	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.97601	3	1	1

Tot. Dil Fct.

89.9

STANDARD ADDITIONS

SAMPLE: MS7P4 Li
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

78256 0.0
147890 50.0
390665 100.0

Constant -9.70001
Std Err of Y Est 21.54935
R Squared 0.907125
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000290
Std Err of Coef. 0.000092

Element:

ppm = 1.0 (ppm)

Filename:\SAIC\MS7P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5004	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.97601	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

AMPLE: MS7P4 Mn
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

304784 0.0
324682 50.0
328320 100.0

Constant -1120.29
Std Err of Y Est 26.19707
R Squared 0.862742
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.003665
Std Err of Coef. 0.001462

Element:

ppm = 117.5 (ppm)

Filename:\SAIC\MS7P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5004	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.97601	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

AMPLE: MS7P4 Nd
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

200 0.0
3696 50.0
11604 100.0

Constant 6.847257
Std Err of Y Est 15.41452
R Squared 0.952478
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.008352
Std Err of Coef. 0.001865

Element:

ppm = 0.2 (ppm)

Filename:\SAIC\MS7P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5004	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4

29.97601

3.5

1

1

Tot. Dil Fct.

104.9

STANDARD ADDITIONS

SAMPLE: MS7P4 Ni
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

6768 0.0
25380 50.0
35635 100.0

Constant -26.1432
Std Err of Y Est 11.65708
R Squared 0.972822
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.003370
Std Err of Coef. 0.000563

Element:

ppm = 2.7 (ppm)

Filename:\SAIC\MS7P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5004	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.97601	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS7P4 Sb
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

500 0.0
11592 50.0
22965 100.0

Constant -2.01449
Std Err of Y Est 0.510637
R Squared 0.999947
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.004451
Std Err of Coef. 0.000032

Element:

ppm = 0.2 (ppm)

Filename:\SAIC\MS7P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5004	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.97601	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

AMPLE: MS7P4 Se
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

400 0.0
839 50.0
1172 100.0

Constant -53.4517
Std Err of Y Est 5.587951
R Squared 0.993754
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.128724
Std Err of Coef. 0.010204

Element:

ppm = 5.6 (ppm)

Filename:\SAIC\MS7P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5004	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.97601	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS7P4 Sm
Dil. Fct. 105

DATE 03/31/96
Regression Output:

Counts ppb

150 0.0
2053 50.0
8001 100.0

Constant 10.19825
Std Err of Y Est 20.16075
R Squared 0.918708
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.011701
Std Err of Coef. 0.003480

Element:

ppm = -1.1 (ppm)

Filename:\SAIC\MS7P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5004	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.97601	3.5	1	1

Tot. Dil Fct. 104.9

Integrals for : PRO BLANK 20 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	511	2113	258980	1075927	225828	17544	2482	82632
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	11896	535	4976	21147	13861	1398	1273	8245
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	31610	3196	16346	2017	5	160	15136	261
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	3559	7513	1398	726	232	398	422	3220
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	496090	208	339	261	9549	17	47	29
Peak	Tl 205	Pb 208	Bi 209	U 238				
	53	940	29	11				

Integrals for : MS7 P4 +0 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	78256	35114	220260	894177	9200321	1148555	146252	206839
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	59514	55553	42430	504784	185425	18385	6768	31967
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	59513	49676	39054	171900	34792	34953	46902	24788
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	13444	29863	39084	41489	35239	31120	34005	37051
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	337879	25782	31174	35608	43058	34851	33701	18034
Peak	Tl 205	Pb 208	Bi 209	U 238				
CPS	16850	16958	16445	17845				

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Integrals for : MS7 P4 +50.1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	147890	33720	175252	855204	8746288	1419461	198908	211946
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	25514	82079	70956	324882	130909	119847	25380	47982
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	25444	40684	10383	130791	2071	6221	16858	839
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	3988	6008	22530	26135	22155	21523	4801	15475
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	379602	11592	8817	12658	108778	3696	2053	10627
Peak	Tl 205	Pb 208	Bi 209	U 238				
	25177	12885	21482	24738				

Integrals for : MS7 P4 +100 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	390655	88898	192489	785940	6060823	1121269	165891	185261
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	27635	222595	170851	328320	91902	163245	35635	92013
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	40978	58378	20856	261318	1809	9162	12527	1172
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	4697	5721	57408	79206	60856	56798	10115	21510
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	318771	22965	18049	30475	140443	11804	8001	23711
	Tl 205	Pb 208	Bi 209	U 238				
	52054	23764	38706	52378				

STANDARD ADDITIONS

SAMPLE: MS8P3 Ag

DATE 03/30/96

Dil. Fct. 105

COUNTS ppb

549 0.0
8890 50.0
16916 100.0

Regression Output:

Constant -3.7
Std Err of Y Est 0.785667
R Squared 0.999876
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.006109
Std Err of Coef. 0.000067

Element:

ppm = 0.4 (ppm)

Filename:\SAIC\MS8P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS8P3 B
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS	ppb
-----	-----
3271	0.0
6300	50.0
12585	100.0

Constant	-26.2
Std Err of Y Est	13.98950
R Squared	0.960858
No. of Observations	3
Degrees of Freedom	1

X Coefficient(s)	0.010316
Std Err of Coef.	0.002082

Element:

ppm = 2.7 (ppm)

Filename:\SAIC\MS8P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS8P3 Cd
il. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

387 0.0
2725 50.0
5110 100.0

Constant -8.0
Std Err of Y Est 0.406253
R Squared 0.999966
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.021172
Std Err of Coef. 0.000121

Element:

ppm = 0.8 (ppm)

Filename:\SAIC\MS8P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS8P3 Co
 Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

 700 0.00
 29618 50.00
 67613 100.00

Constant 1.5
 Std Err of Y Est 5.521134
 R Squared 0.993903
 No. of Observations 3
 Degrees of Freedom 1

X Coefficient(s) 0.001485
 Std Err of Coef. 0.000116

Element:

ppm = -0.2 (ppm)

Filename:\SAIC\MS8P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1

Dil Fct. #1
 29.96404

Dil. Fct. #2
 3.5

Dil. Fct. #3
 1

Dil. Fct. #4
 1

Tot. Dil Fct.

104.9

STANDARD ADDITIONS

SAMPLE: MS8P3 Cu
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

1296 0.0
9307 50.0
25173 100.0

Constant 1.8
Std Err of Y Est 13.19456
R Squared 0.965180
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.004042
Std Err of Coef. 0.000767

Element:

ppm = -0.2 (ppm)

Filename:\SAIC\MS8P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS8P3 Fe
Dil. Fct. 90

DATE 03/31/96

Regression Output:

ABS Units	ppm	Constant	-2.55267
-----	-----	Std Err of Y Est	0.020016
41	0.0	R Squared	0.999978
95	3.3	No. of Observations	3
138	6.0	Degrees of Freedom	1

X Coefficient(s) 0.062084

Std Err of Coef. 0.000291

Element:

ppm = 229.5 (ppm)

Filename:\SAIC\MS8P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	6	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.96404	3	1	1

Tot. Dil Fct.

89.9

STANDARD ADDITIONS

SAMPLE: MS8P3 Li
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

14347 0.0
89282 50.0
162276 100.0

Constant -9.9
Std Err of Y Est 0.535653
R Squared 0.999942
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000675
Std Err of Coef. 0.000005

Element:

ppm 1.0 (ppm)

Filename:\SAIC\MS8P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)

0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS8P3 Mn
dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

29521 0.0
63532 50.0
95694 100.0

Constant -45.1
Std Err of Y Est 1.140575
R Squared 0.999739
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001510
Std Err of Coef. 0.000024

Element:

ppm = 4.7 (ppm)

Filename:\SAIC\MS8P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS8P3 Nd
 Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts	ppb
75	0.0
1487	50.0
1967	100.0

Constant	-7.5
Std Err of Y Est	19.34324
R Squared	0.925167
No. of Observations	3
Degrees of Freedom	1

X Coefficient(s) 0.048898
 Std Err of Coef. 0.013907

Element:

ppm = 0.8 (ppm)

Filename:\SAIC\MS8P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS8P3 Ni
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

1116 0.0
6048 50.0
14091 100.0

Constant -3.6
Std Err of Y Est 9.696057
R Squared 0.981197
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.007562
Std Err of Coef. 0.001046

Element:

ppm = 0.4 (ppm)

Filename:\SAIC\MS8P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS8P3 Sb
il. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

28 0.0
2511 50.0
4913 100.0

Constant -0.8
Std Err of Y Est 0.676900
R Squared 0.999908
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.020468
Std Err of Coef. 0.000195

Element:

Filename:\SAIC\MS8P3 ppm = 0.1 (ppm)

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS8P3 Se
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

0.0
50.0
100.0

Constant -2.65784
Std Err of Y Est 3.785679
R Squared 0.997133
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001321
Std Err of Coef. 0.000070

Element:

ppm = 0.3 (ppm)

Filename:\SAIC\MS1P12

5.5 ppm best Est

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.52174	3.5	1	1

Tot. Dil Fct. 103.3

STANDARD ADDITIONS

SAMPLE: MS8P3 Sm
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts	ppb
17	0.0
839	50.0
1417	100.0

Constant	-3.6
Std Err of Y Est	7.079434
R Squared	0.989976
No. of Observations	3
Degrees of Freedom	1

X Coefficient(s) 0.070712
Std Err of Coef. 0.007115

Element:

ppm = 0.4 (ppm)

Filename:\SAIC\MS8P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

Integrals for : PRO BLANK 7 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	190	35	2029	10336	344868	27402	3274	4095
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 80	Cu 63
CPS	327	333	5869	16321	9800	892	958	5417
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	28708	2535	16102	2881	17	83	11104	119
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	2273	5554	642	535	47	77	244	1619
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	606203	29	41	136	5084	11	17	5
Peak	Tl 205	Pb 208	Bi 209	U 238				
	41	970	65	5				

Integrals for : MS8 +0.1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	14347	335	8271	32378	4855651	486326	72602	152991
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	12283	10842	6482	29521	27758	700	1116	1296
Peak	Zn 64	Cu 65	Zn 66	Ga 69	As 75	Se 82	Rb 85	Sr 88
CPS	3009	20214	16342	97717	86	2407	2314	13343
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sb 121	Sb 123	Cs 133
CPS	549	578	52	387	97885	28	52	52
Peak	Ba 138	Nd 146	Sm 147	Tl 203	Tl 205	Pb 208	Bi 209	U 238
S	24808	75	17	40	40	584	17	769

Integrals for : MS8 +50 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	89282	14758	11300	53858	5452917	485738	67016	116734
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	8282	48211	36745	63532	26106	23618	6048	9307
Peak	Zn 64	Cu 65	Zn 66	Ga 69	As 75	Se 82	Rb 85	Sr 88
CPS	5359	24498	3333	96980	1412	1811	19691	38334
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sb 121	Sb 123	Cs 133
CPS	8890	7669	1122	2725	84092	2511	2315	10141
Peak	Ba 138	Nd 146	Sm 147	Tl 203	Tl 205	Pb 208	Bi 209	U 238
S	37282	1487	839	3316	7692	5180	5301	10924

Integrals for : MSB *100 :

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	162276	29016	17585	30221	5144030	602161	91360	132578
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	10361	5004	74389	95694	27943	67613	14091	25173
Peak	Zn 64	Cu 65	In 66	Ga 69	As 75	Se 82	Rb 85	Sr 88
CPS	10923	32547	5758	117312	3594	9027	34463	52930
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sb 121	Sb 123	Cs 133
CPS	16916	16951	2245	5110	98382	4973	3368	15388
Peak	Ba 138	Nd 146	Sm 147	Tl 203	Tl 205	Pb 208	Bi 209	U 238
S	44973	1967	1417	6604	14954	9869	9742	20667

STANDARD ADDITIONS

SAMPLE: MS9P3 Ag
Dil. Fct. 104

DATE 03/30/96

Regression Output:

Counts ppb

410 0.0
9389 50.0

Constant -4.5
Std Err of Y Est 5.324127
R Squared 0.994330
No. of Observations 3
Degrees of Freedom 1

16291 100.0

X Coefficient(s) 0.006261

Std Err of Coef. 0.000472

Element:

ppm = 0.5 (ppm)

Filename:\SAIC\MS9P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5037	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.77963	3.5	1	1

Tot. Dil Fct. 104.2

STANDARD ADDITIONS

SAMPLE: MS9P3 B
Dil. Fct. 104

DATE 03/30/96

Regression Output:

Counts ppb

5994 0.0
13117 50.0
21355 100.0

Constant -37.7
Std Err of Y Est 2.960729
R Squared 0.998246
No. of Observations 3.
Degrees of Freedom 1

X Coefficient(s) 0.006498
Std Err of Coef. 0.000272

Element:

ppm = 3.9 (ppm)

Filename:\SAIC\MS9P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5037	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.77963	3.5	1	1

Not. Dil Fct. 104.2

STANDARD ADDITIONS

SAMPLE: MS9P3 Cd
 Dil. Fct. 104

DATE 03/30/96
 Regression Output:

Constant

3.7

Counts	ppb	Std Err of Y Est	11.53016
-----	-----	R Squared	0.973411
127	0.0	No. of Observations	3
2083	50.0	Degrees of Freedom	1
5608	100.0		
-----	-----	X Coefficient(s)	0.017759
		Std Err of Coef.	0.002935
Element:		ppm =	-0.4 (ppm)
Filename:\SAIC\MS9P3			

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5037	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil. Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.77963	3.5	1	1

Tot. Dil Fct. 104.2

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STANDARD ADDITIONS

SAMPLE: MS9P3 Co
il. Fct. 104

DATE 03/30/96

Regression Output:

Counts	ppb	Constant	7.0
-----	-----	Std Err of Y Est	14.49654
839	0.0	R Squared	0.957970
29386	50.0	No. of Observations	3
90440	100.0	Degrees of Freedom	1
-----	-----	X Coefficient(s)	0.001069
Element:		Std Err of Coef.	0.000223
		ppm =	-0.7 (ppm)

Filename:\SAIC\MS9P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5037	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.77963	3.5	1	1

Tot. Dil Fct. 104.2

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STANDARD ADDITIONS

SAMPLE: MS9P3 Cu

DATE 03/30/96

Dil. Fct. 104

Regression Output:

Counts ppb

Constant 3.7

Std Err of Y Est 24.34832

R Squared 0.881431

No. of Observations 3

Degrees of Freedom 1

3163 0.0

7543 50.0

27180 100.0

X Coefficient(s) 0.003670

Std Err of Coef. 0.001346

Element:

ppm = -0.4 (ppm)

Filename:\SAIC\MS9P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5037	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.77963	3.5	1	1

Tot. Dil Fct. 104.2

STANDARD ADDITIONS

SAMPLE: MS9P3 Fe
Dil. Fct. 89

DATE 03/31/96

Regression Output:

ABS Units ppm

44 0.0
113 4.3
169 8.0

Constant -2.86537
Std Err of Y Est 0.118915
R Squared 0.999561
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.064135
Std Err of Coef. 0.001342

Element:

ppm = 256.0 (ppm)

Filename:\SAIC\MS9P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5037	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	6	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.77963	3	1	1

Tot. Dil Fct. 89.3

STANDARD ADDITIONS

SAMPLE: MS9P3 Li
Dil. Fct. 104

DATE 03/30/96

Regression Output:

Counts ppb

13750 0.0
94922 50.0
177378 100.0

Constant -8.3
Std Err of Y Est 0.320351
R Squared 0.999979
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000611
Std Err of Coef. 0.000002

Element:

ppm = 0.9 (ppm)

Filename:\SAIC\MS9P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5037	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil. Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.77963	3.5	1	1

Tot. Dil Fct. 104.2

STANDARD ADDITIONS

SAMPLE: MS9P3 Mn

DATE 03/30/96

il. Fct. 104

Regression Output:

Counts ppb

Constant -16.0

Std Err of Y Est 4.859974

R Squared 0.995276

No. of Observations 3

Degrees of Freedom 1

21583 0.0

3489 50.0

139461 100.0

X Coefficient(s) 0.000844

Std Err of Coef. 0.000058

Element:

ppm = 1.7 (ppm)

Filename:\SAIC\MS9P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5037	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
il Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.77963	3.5	1	1

Tot. Dil Fct. 104.2

STANDARD ADDITIONS

SAMPLE: MS9P3 Nd
Dil. Fct. 104

DATE 03/30/96

Regression Output:

Counts	ppb	Constant	-7.5
-----	-----	Std Err of Y Est	0.698745
237	0.0	R Squared	0.999902
1730	50.0	No. of Observations	3
3275	100.0	Degrees of Freedom	1
-----	-----	X Coefficient(s)	0.032913
Element:		Std Err of Coef.	0.000325
		ppm =	0.8 (ppm)

Filename:\SAIC\MS9P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5037	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)

15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.77963	3.5	1	1

Tot. Dil Fct. 104.2

STANDARD ADDITIONS

SAMPLE: MS9P3 Ni
Dil. Fct. 104

DATE 03/30/96

Regression Output:

Counts	ppb	Constant	5.9
-----	-----	Std Err of Y Est	15.15966
461	0.0	R Squared	0.954036
6151	50.0	No. of Observations	3
18821	100.0	Degrees of Freedom	1

X Coefficient(s) 0.005196

Std Err of Coef. 0.001140

Element:

ppm = -0.6 (ppm)

Filename:\SAIC\MS9P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5037	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.77963	3.5	1	1

Tot. Dil Fct. 104.2

STANDARD ADDITIONS

SAMPLE: MS9P3 Sb
Dil. Fct. 104

DATE 03/30/96

Regression Output:

Counts ppb

35 0.0
2501 50.0
4624 100.0

Constant -1.9
Std Err of Y Est 3.048571
R Squared 0.998141
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.021750
Std Err of Coef. 0.000938

Element:

ppm = 0.2 (ppm)

Filename:\SAIC\MS9P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5037	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.77963	3.5	1	1

Tot. Dil Fct. 104.2

STANDARD ADDITIONS

SAMPLE: MS9P3 Se
Dil. Fct. 105

DATE 03/31/96

Regression Output:

ounts ppb

0.0
50.0
100.0

Constant -2.65784
Std Err of Y Est 3.785679
R Squared 0.997133
No. of Observations 3
Degrees of Freedom 1
X Coefficient(s) 0.001321

Element:

Std Err of Coef. 0.000070

ppm 0.3 (ppm)
Filename:\SAIC\MS1P12 5.5 ppm best Est

DILUTIONS

#1	#2	#3	#4
amp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.52174	3.5	1	1

Tot. Dil Fct. 103.3

STANDARD ADDITIONS

SAMPLE: MS9P3 Sm
 Dil. Fct. 104

DATE 03/30/96

Regression Output:

Counts ppb

 100 0.0
 954 50.0
 2314 100.0

Constant 0.2
 Std Err of Y Est 9.250155
 R Squared 0.982886
 No. of Observations 3
 Degrees of Freedom 1

X Coefficient(s) 0.044394
 Std Err of Coef. 0.005857

Element:

ppm = -0.0 (ppm)

Filename:\SAIC\MS9P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5037	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
29.77963	3.5	1	1

Tot. Dil Fct. 104.2

Integrals for : PRO BLANK

Peak	Li	7	Be	9	B	11	Na	23	Mg	24	Mg	25	Ca	44		
CPS		33		33		12012		64024		189099		15487		1770	2083	
Peak	Sc	45		51	Cr	52	Mn	55	Fe	57	Co	59	Ni	60	Cu	63
CPS		133		196		2876		7913		4421		613		486		2934
Peak	Zn	64	Cu	65	Zn	66	Ga	69	As	75	Se	82	Rb	85	Sr	88
CPS		12458		1325		7160		1174		57		2500		410		306
Peak	Ag	107	Ag	109	Cd	111	Cd	114	In	115	Sb	121	Sb	123	Cs	133
CPS		5		17		86		567		290651		46		17		52
Peak	Ba	138	Nd	146	Sm	147	Tl	203	Tl	205	Pb	208	Bi	209	U	238
CPS		2581		0		11		17		46		370		109		0

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Integrals for : MS9 +0.1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	39485	3394	25358	111429	5128855	1895600	311558	1194043
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	57966	84182	39095	326776	214943	6059	5131	12008
Peak	Zn 64	Cu 65	Zn 66	Ga 69	As 75	Se 82	Rb 85	Sr 88
CPS	27066	49902	13424	702950	1137	2239	18297	87099
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sb 121	Sb 123	Cs 133
CPS	1866	5623	633	546	197275	86	86	1493
Peak	Ba 138	Nd 146	Sm 147	Tl 203	Tl 205	Pb 208	Bi 209	U 238
	202004	2717	460	199	130	2795	1180	3828

Integrals for : MS9 +50 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	105264	19927	25176	107899	5120908	1933384	319420	979541
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	42768	193470	125828	445145	207222	84203	17925	32500
Peak	Zn 64	Cu 65	Zn 66	Ga 69	As 75	Se 82	Rb 85	Sr 88
CPS	32926	72947	20499	748228	3229	2543	52147	117487
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sb 121	Sb 123	Cs 133
CPS	17159	18680	4792	8864	189812	5391	4523	37757
Peak	Ba 138	Nd 146	Sm 147	Tl 203	Tl 205	Pb 208	Bi 209	U 238
	232156	6919	3568	5624	14353	11244	9287	21113

3/28/96

Integrals for : MS9 BLANK 1

Peak	Li	7	Be	9	B	10	B	11	Na	23	Mg	24	Mg	25	Ca	44
CPS		26		260		9386		53547		12018		381		668		1258
Peak	Sc	45	V	51	Cr	52	Mn	55	Fe	57	Co	59	Ni	60	Cu	63
CPS		451		156		9351		10117		25667		3733		34		52
Peak	Zn	64	Cu	65	Zn	66	Ga	69	As	75	Se	82	Rb	85	Sr	88
CPS		52		95		86		260		43		5287		503		0
Peak	Ag	107	Ag	109	Cd	111	Cd	114	In	115	Sb	121	Sb	123	Cs	133
CPS		34		60		26		0		95		34		17		156
Peak	Ba	138	Nd	146	Sm	147	Tl	203	Tl	205	Pb	208	Bi	209	U	238
		26		0		0		8		17		8		538		26

Integrals for : MS9 +100 t

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	166587	35592	24665	115001	5046031	2212991	365479	1030153
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	47143	312540	230598	552936	208023	134083	34200	58001
Peak	Zn 64	Cu 65	Zn 66	Ga 69	As 75	Se 82	Rb 85	Sr 88
CPS	43833	75322	22330	788630	10567	3472	85327	149081
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sb 121	Sb 123	Cs 133
CPS	36627	34098	6190	15361	222843	11913	9298	67004
Peak	Ba 138	Nd 146	Sm 147	Tl 203	Tl 205	Pb 208	Bi 209	U 238
	268375	12894	7327	14938	33551	20600	19957	40249

Integrals for : MS9 +0.1

Peak	Li 7	Ba 9	B 10	B 11	Na 13	Mg 24	Mg 25	Ca 44
CPS	10750	300	7994	10660	4384959	310942	54464	52056
Peak	Sc 46	Cr 52	Mn 55	Fe 57	Co 59	Ni 61	Cu 63	
CPS	9048	6459	3026	21583	14739	609	667	4769
Peak	Zn 64	Cu 65	Zn 66	Ga 69	As 75	Se 80	Rb 85	Sr 88
CPS	2685	14365	1046	54139	762	1065	2669	10940
Peak	Ag 107	Ag 109	Cd 114	Cd 116	Cd 118	Sn 119	Sb 123	Cs 133
CPS	410	607	33	127	40525	1466	1164	619
Peak	Ba 138	Mo 146	Sr 147	Rb 149	Rb 151	Pb 208	Bi 209	U 238
CPS	14099	267	2739	0	5	248	92	630

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Peak	Se 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44	
CPS	94922	15385	15117	64562	7282021	579315	74182	88056
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	4844	48060	41441	73489	23991	29386	6251	8543
Peak	Zn 64	Cu 65	Zn 66	Ga 69	As 75	Sa 82	Rb 85	Sr 88
CPS	5307	26062	2615	86660	1730	4209	15944	32826
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sb 121	Sb 123	Cs 133
CPS	9389	8905	1053	2083	68083	1475	1302	9238
Peak	Ba 138	Nd 146	Sm 147	Tl 203	Tl 205	Pb 208	Bi 209	U 238
CPS	25850	1730	954	2691	5880	3918	4607	8428

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Integrals for : MS9 +100 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	177378	31473	23355	107909	5804195	590877	107081	130153
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	6494	99545	83588	139461	37699	90440	18921	28180
Peak	Zn 64	Cu 65	Zn 66	Ga 69	As 75	Se 82	Rb 85	Sr 88
CPS	14183	37258	5417	122888	4248	2644	42081	61614
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sb 121	Sb 123	Cs 133
CPS	16291	15065	2465	5608	115376	4624	3090	24095
Peak	Ba 138	Nd 146	Sm 147	Tl 203	Tl 205	Pb 208	Bi 209	U 238
CPS	44374	3275	2314	6256	14867	8445	10182	22555

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STANDARD ADDITIONS

SAMPLE: MS10P5 Ag
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts	ppb
-----	-----
77	0.0
15589	50.0
2942	100.0
-----	-----

Constant	-0.98742
Std Err of Y Est	1.869595
R Squared	0.999300
No. of Observations	3
Degrees of Freedom	1

X Coefficient(s)	0.003368
Std Err of Coef.	0.000089

Element:

ppm = 0.1 (ppm)

Filename:\SAIC\MS10p5

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3.5	1	1

tot. Dil Fct. 104.8

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STANDARD ADDITIONS

SAMPLE: MS10P5 B
Dil. Fct. 103

DATE 03/31/96

Regression Output:

Counts ppb

0.0
50.0
100.0

Constant -2.65784
Std Err of Y Est 3.785679
R Squared 0.997133
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001321
Std Err of Coef. 0.000070

Element:

ppm = 0.3 (ppm)

Filename:\SAIC\MS1P12

5.5 ppm best Est

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.52174	3.5	1	1

Tot. Dil Fct. 103.3

SAMPLE: MS10P5 B
Dil. Fct. 105

DATE 03/31/96
Regression Output:

Counts ppb

33883 0.0
54057 50.0
48592 100.0

Constant -103.721
Std Err of Y Est 50.15847
R Squared 0.496825
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.003377
Std Err of Coef. 0.003399

Element:

ppm = 10.9 (ppm)

Filename:\SAIC\MS10p5

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3.5	1	1

Tot. Dil Fct. 104.8

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STANDARD ADDITIONS

SAMPLE: MS10P5 Cd
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

559 0.0
9674 50.0
16739 100.0

Constant -5.27079
Std Err of Y Est 5.158707
R Squared 0.994677
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.006147
Std Err of Coef. 0.000449

Element:

ppm = 0.6 (ppm)

Filename:\SAIC\MS10p5

WHC-SD-WM-TI-766 Rev. 0

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3.5	1	1

Tot. Dil Fct. 104.8

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SAMPLE: MS10P5 Co
Dil. Fct. 105

DATE 03/31/96
Regression Output:

Counts	ppb	Constant	-5.36045
-----	-----	Std Err of Y Est	5.651480
2327	0.0	R Squared	0.993612
41280	50.0	No. of Observations	3
70733	100.0	Degrees of Freedom	1

X Coefficient(s) 0.001452
Std Err of Coef. 0.000116

Element:

ppm = 0.6 (ppm)

Filename:\SAIC\MS10p5

WHCSD-WM-TL-766 Rev. 0

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)

15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3.5	1	1

Tot. Dil Fct. 104.8

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SAMPLE: MS10P5 Cu
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

4851 0.0
13064 50.0
29046 100.0

Constant -12.5482
Std Err of Y Est 12.88920
R Squared 0.966773
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.003995
Std Err of Coef. 0.000740

Element:

ppm = 1.3 (ppm)

Filename: \SAIC\MS10p5

WHICSD-WM-TI-766 Rev.0

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3.5	1	1

Tot. Dil Fct. 104.8

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SAMPLE: MS10P5 Li
Dil. Fct. 105

STANDARD ADDITIONS

DATE 03/31/96

Regression Output:

Counts ppb

2351 0.0
18602 50.0
26268 100.0

Constant -13.1021
Std Err of Y Est 14.34916
R Squared 0.958820
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.004008
Std Err of Coef. 0.000830

Element:

ppm = 1.4 (ppm)

Filename:\SAIC\MS10p5

WHC-SD-WM-11766 Rev. 0

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3.5	1	1

Tot. Dil Fct. 104.8

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STANDARD ADDITIONS

SAMPLE: MS10P5 Fe

DATE 03/31/96

Dil. Fct. 90

Regression Output:

ABS Units

ppm

Constant

-2.46251

Std Err of Y Est

0.048455

R Squared

0.999871

No. of Observations

3

Degrees of Freedom

1

X Coefficient(s) 0.062698

Std Err of Coef. 0.000711

Element:

ppm = 221.3 (ppm)

Filename:\SAIC\MS10p5

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)

15	6	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3	1	1

Tot. Dil Fct. 89.9

STANDARD ADDITIONS

SAMPLE: MS10P5 Mn

DATE 03/31/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant

-74.1944

Std Err of Y Est

7.944160

R Squared

0.987378

No. of Observations

3

Degrees of Freedom

1

44115 0.0

80488 50.0

104948 100.0

X Coefficient(s) 0.001623

WHC:SD-WM-IT-766 Rev. 0

Element:

Std Err of Coef. 0.000183

ppm = 7.8 (ppm)

Filename:\SAIC\MS10p5

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3.5	1	1

Tot. Dil Fct. 104.8

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STANDARD ADDITIONS

SAMPLE: MS10P5 Nd
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts	ppb	Constant	-14.0995 *
-----	-----	Std Err of Y Est	0.000000
119	0.0	R Squared	1
541	50.0	No. of Observations	3
541	50.0	Degrees of Freedom	1

X Coefficient(s) 0.118483

Std Err of Coef. 0.000000

Element:

ppm ■ 1.5 (ppm)

Filename:\SAIC\MS10p5

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS10P5 Ni DATE 03/31/96
 Dil. Fct. 105 Regression Output:
 Counts ppb Constant -6.68000 -
 ----- Std Err of Y Est 5.854541
 ----- R Squared 0.993144

755	0.0	No. of Observations	3
9996	50.0	Degrees of Freedom	1
16912	100.0	X Coefficient(s)	0.006146
-----	-----	Std Err of Coef.	0.000510

Element: ppm = 0.7 (ppm)

Filename:\SAIC\MS10p5

DILUTIONS

#1	#2	#3	#4
Sampl. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS10P5 Sb
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

89 0.0
5774 50.0
10675 100.0

Constant -1.98003
Std Err of Y Est 3.020729
R Squared 0.998175
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.009429
Std Err of Coef. 0.000403

Element:

ppm = 0.2 (ppm)

Filename:\SAIC\MS10p5

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
29.95207	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS10P5 Se

DATE 03/31/96

Dil. Fct. 105

Counts ppb

-----	-----
321	0.0
1029	50.0
1607	100.0

Regression Output:

Constant	-26.3857
Std Err of Y Est	4.119915
R Squared	0.996605
No. of Observations	3
Degrees of Freedom	1

X Coefficient(s)	0.077496
Std Err of Coef.	0.004522

Element:

ppm = 2.8 (ppm)

Filename:\SAIC\MS10p5

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS10P5 Sm
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

11 0.0
232 50.0
345 100.0

Constant -6.70628
Std Err of Y Est 12.97664
R Squared 0.966321
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.289317
Std Err of Coef. 0.054012

Element:

ppm = 0.7 (ppm)

Filename:\SAIC\MS10p5

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3.5	1	1

Tot. Dil Fct.

104.8

Integrals for : PRO BLANK 9 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	24637	23708	29118	32855	348323	50581	28249	26163
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	20961	26168	30739	34652	35961	26091	29940	30727
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	47653	24941	36100	25429	17733	24619	29911	15298
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	22100	28951	18935	23547	20514	23588	19818	22680
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	577512	20818	18495	17804	27801	23	11	17
Peak	Tl 205	Pb 208	Bi 209	U 238				
S	23	1136	17	0				

Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	10153	3329	4997	44115	23493	2327	755	4851
Peak	Zn 84	Cl 85	Br 88	Ga 89	Se 74	As 75	Se 76	Se 77
CPS	4782	1244	2470	104577	321	226	13231	95
Peak	Se 113	Se 122	Br 135	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	2347	2672	1386	4024	77	53	0	559
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	174515	89	23	53	8120	119	11	29
Peak	Tl 205	Pb 208	Bi 209	U 238				
	17	303	11	363				

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Integrals for : MS 10 +50 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	18602	7329	74057	384252	9043107	369827	56263	48802
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	7072	50617	43797	80488	28981	41280	9996	16763
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	13528	13064	7459	135576	1029	3500	7418	1017
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	1726	2363	6703	5959	15589	15368	4268	9674
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	207612	5774	4500	4345	5161	541	232	4298
Peak	Tl 205	Pb 208	Bi 209	U 238				
CPS	11366	4411	9550	7078				

Integrals for : MS 10 +100 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	26268	11486	68592	358008	6998729	308846	47085	49512

Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	7787	83179	68393	104948	26047	70733	16912	29046

Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	19760	18366	11307	139046	1607	6358	6846	1386

Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	1904	2666	10473	9799	29742	29032	7185	16739

Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	200956	10675	9525	5792	4476	636	345	7805

Peak	Tl 205	Pb 208	Bi 209	U 238
CPS	18354	7293	16156	12349

STANDARD ADDITIONS

SAMPLE: MS11P1 Ag

DATE 03/31/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant 6.506086 .

300 0.0

Std Err of Y Est 13.40261

14827 50.0

R Squared 0.964073

43948 100.0

No. of Observations 3

Degrees of Freedom 1

X Coefficient(s) 0.002208

Std Err of Coef. 0.000426

Element:

ppm = -0.7 (ppm)

Filename:\SAIC\MS11P1

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS11P1 B
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

600 0.0
2905 50.0
5846 100.0

Constant -9.12701
Std Err of Y Est 4.937327
R Squared 0.995124
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.018969
Std Err of Coef. 0.001327

Element:

ppm = 1.0 (ppm)

Filename:\SAIC\MS11P1

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3.5	1	1

Tot. Dil Fct.

104.8

STANDARD ADDITIONS

SAMPLE: MS11P1 Cd

DATE 03/31/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant 6.496245

Std Err of Y Est 14.72267

R Squared 0.956648

No. of Observations 3

Degrees of Freedom 1

400 0.0

8192 50.0

25086 100.0

X Coefficient(s) 0.003875

Std Err of Coef. 0.000824

Element:

ppm = -0.7 (ppm)

Filename:\SAIC\MS11P1

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS11P1 Co
 Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

 1000 0.0

49226 50.0

123063 100.0

Element:

Constant 3.362104

Std Err of Y Est 8.503613

R Squared 0.985537

No. of Observations 3

Degrees of Freedom 1

X Coefficient(s) 0.000807

Std Err of Coef. 0.000097

ppm = -0.4 (ppm)

Filename:\SAIC\MS11P1

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)

15

7

1

1

Dil. Fct. #1

Dil. Fct. #2

Dil. Fct. #3

Dil. Fct. #4

29.95207

3.5

1

1

Tot. Dil Fct.

104.8

STANDARD ADDITIONS

SAMPLE: MS11P1 Cu

DATE 03/31/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant 1.088929

Std Err of Y Est 6.516673

R Squared 0.991506

No. of Observations 3

Degrees of Freedom 1

1000 0.0

21973 50.0

50954 100.0

X Coefficient(s) 0.001984

Std Err of Coef. 0.000183

Element:

ppm = 0.2 (ppm)

Filename:\SAIC\MS11P1

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
29.95207	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS11P1 Fe
Dil. Fct. 90

DATE 03/31/96

Regression Output:

ABS Units	ppm	Constant	-2.68196
-----	-----	Std Err of Y Est	0.014395
44	0.0	R Squared	0.999988
99	3.3	No. of Observations	3
143	6.0	Degrees of Freedom	1

X Coefficient(s) 0.060835

Std Err of Coef. 0.000205

Element:

ppm = 241.0 (ppm)

Filename:\SAIC\MS11P1

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	6	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
29.95207	3	1	1

Tot. Dil Fct. 89.9

STANDARD ADDITIONS

SAMPLE: MS11P1 Li
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

2000 0.0
20038 50.0
44400 100.0

Constant -1.84667
Std Err of Y Est 6.066610
R Squared 0.992639
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.002341
Std Err of Coef. 0.000201

Element:

ppm = 0.2 (ppm)

Filename:\SAIC\MS11P1

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS11P1 Mn
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

60000 0.0
121809 50.0
184566 100.0

Constant -48.0385
Std Err of Y Est 0.310691
R Squared 0.999980
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000802
Std Err of Coef. 0.000003

Element:

ppm = 5.0 (ppm)

Filename:\SAIC\MS11P1

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS11P1 Nd

DATE 03/31/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant -1.68720

Std Err of Y Est 2.709156

R Squared 0.998532

No. of Observations 3

Degrees of Freedom 1

1029 0.0

1029 50.0

1029 100.0

X Coefficient(s) 0.038553

Std Err of Coef. 0.001478

Element:

ppm = 0.2 (ppm)

Filename:\SAIC\MS11P1

0.8 Best Est.

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS11P1 Ni
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

300 0.0
9728 50.0
28903 100.0

Constant 6.321334
Std Err of Y Est 13.65013
R Squared 0.962734
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.003365
Std Err of Coef. 0.000662

Element:

ppm = -0.7 (ppm)

Filename:\SAIC\MS11P1

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS11P1 Sb
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

250 0.0
5274 50.0
16644 100.0

Constant 7.070782
Std Err of Y Est 15.42253
R Squared 0.952429
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.005809
Std Err of Coef. 0.001298

Element:

ppm = -0.7 (ppm)

Filename:\SAIC\MS11P1

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS11P1 Se
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

2327 0.0
2327 50.0
2327 100.0

Constant -1.68720
Std Err of Y Est 2.709156
R Squared 0.998532
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.038553
Std Err of Coef. 0.001478

Element:

ppm 0.2 (ppm)

Filename:\SAIC\MS11P1

1.5 ppm Best Est

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3.5	1	1

Tot. Dil Fct. 104.8

STANDARD ADDITIONS

SAMPLE: MS11P1 Sm
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts	ppb	Constant	-1.68720
-----	-----	Std Err of Y Est	2.709156
660	0.0	R Squared	0.998532
660	50.0	No. of Observations	3
660	100.0	Degrees of Freedom	1
-----	-----	X Coefficient(s)	0.038553
Element:		Std Err of Coef.	0.001478
		ppm =	0.2 (ppm)
Filename:\SAIC\MS11P1			0.5ppm Best Est

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5008	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.95207	3.5	1	1

Tot. Dil Fct. 104.8

Integrals for : PRO BLANK 10 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	220	23	1237	7455	328296	28954	3512	3845
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	220	454	5191	15379	10145	988	1011	5810
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	29583	2660	17151	3237	41	101	12957	125
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	2756	5854	833	589	53	47	208	2059
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Wd 146	Sm 147	Tl 203
CPS	562045	59	59	226	4423	17	17	5
Peak	Tl 205	Pb 209	Bi 209	U 238				
	35	988	11	5				

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Integrals for : MS11 P1 +0.1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	373038	365652	358548	357926	375317	381654	383303	384205
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	370936	368459	364466	367534	377188	385498	380464	376650
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	377587	371516	378567	372041	362370	371009	370102	378774
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	377527	389996	382465	367340	372926	363550	360952	376186
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	381207	386714	372488	368271	381305	366714	363681	369630
Peak	Tl 205	Pb 208	Bi 209	U 238				
	359244	359183	367765	375492				

Integrals for : MS11 P1 +50 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	20038	6644	2905	13940	8265965	399590	60129	96893
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	5869	56393	45443	121809	41998	49225	9728	21973
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	16465	16567	9597	196758	3535	5262	10538	3024
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	2202	5908	24337	29095	14827	14576	3738	8192
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	177063	5274	4006	25888	20005	3232	4258	8417
Peak	Tl 205	Pb 208	Bi 209	U 238				
	16567	9812	12754	10527				

Integrals for : WS11 P1 +100 i

Peak	Li 7	Be 9	B. 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	44400	16086	5846	27482	9573936	563552	84093	83468
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	6780	116383	97271	184566	48394	123063	28903	50954
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	33637	28712	18759	211301	1791	8811	11700	2327
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	3672	4274	18383	10020	43948	43612	9704	25086
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	320657	16644	12271	14553	12456	1029	660	15125
Peak	Tl 205	Pb 208	Bi 209	U 238				
CPS	35296	8192	22889	27327				

STANDARD ADDITIONS

SAMPLE: MS11P3 Ag

DATE 03/31/96

Dil. Fct. 105

Regression Output:

Counts	ppb	Constant	1.557188
-----	-----	Std Err of Y Est	3.557562
23	0.0	R Squared	0.997468
52626	50.0	No. of Observations	3
115286	100.0	Degrees of Freedom	1

X Coefficient(s) 0.000865

Std Err of Coef. 0.000043

Element:

ppm = -0.2 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
0.03604	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS11P3 B
Dil. Fct. 105

DATE 03/31/96
Regression Output:

Counts ppb

1238 0.0
35324 50.0
81708 100.0

Constant 1.387127
Std Err of Y Est 6.214995
R Squared 0.992274
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001233
Std Err of Coef. 0.000108

Element:

ppm = -0.1 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1

Dil Fct. #1
30.03604

Dil. Fct. #2
3.5

Dil. Fct. #3
1

Dil. Fct. #4
1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS11P3 Cd

DATE 03/31/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant 0.028511

Std Err of Y Est 4.578220

R Squared 0.995807

No. of Observations 3

Degrees of Freedom 1

1113 0.0

25152 50.0

55278 100.0

X Coefficient(s) 0.001838

Std Err of Coef. 0.000119

Element:

ppm = -0.0 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
0.03604	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS11P3 Co
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts	ppb	Constant	3.637704
-----	-----	Std Err of Y Est	7.785582
410	0.0	R Squared	0.987876
128694	50.0	No. of Observations	3
317895	100.0	Degrees of Freedom	1

X Coefficient(s) 0.000311

Std Err of Coef. 0.000034

Element:

ppm = -0.4 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)

0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03604	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS11P3 Cu
 Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts	ppb	Constant	2.205337
-----	-----	Std Err of Y Est	7.469390
2023	0.0	R Squared	0.988841
60958	50.0	No. of Observations	3
146470	100.0	Degrees of Freedom	1

X Coefficient(s) 0.000684

Std Err of Coef. 0.000072

Element:

ppm = -0.2 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03604	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS11P3 Fe

DATE 03/31/96

Dil. Fct. 90

Regression Output:

ABS Units	ppm	Constant	-0.65482
-----	-----	Std Err of Y Est	0.062079
10	0.0	R Squared	0.999880
79	4.3	No. of Observations	3
137	8.0	Degrees of Freedom	1

X Coefficient(s) 0.063170

Std Err of Coef. 0.000690

Element:

ppm = 58.9 (ppm)

Filename:\SAIC\MS11P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5001	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	6	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
9.99400	3	1	1

Tot. Dil Fct. 90.0

STANDARD ADDITIONS

SAMPLE: MS11P3 Li
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

4185 0.0
52395 50.0
134925 100.0

Constant 2.270422
Std Err of Y Est 10.59575
R Squared 0.977546
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000747
Std Err of Coef. 0.000113

Element:

ppm = -0.2 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03604	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS11P3 Mn
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts	ppb	Constant	-0.85966
-----	-----	Std Err of Y Est	9.805124
21678	0.0	R Squared	0.980771
160866	50.0	No. of Observations	3
389180	100.0	Degrees of Freedom	1

X Coefficient(s) 0.000266

Std Err of Coef. 0.000037

Element:

ppm = 0.1 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03604	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS11P3 Nd
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

23 0.0
1702 50.0
5477 100.0

Constant 8.048646
Std Err of Y Est 15.31669
R Squared 0.953079
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.017474
Std Err of Coef. 0.003877

Element:

ppm = -0.8 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03604	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS11P3 Ni
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

398 0.0
29536 50.0
72389 100.0

Constant 3.188642
Std Err of Y Est 7.730911
R Squared 0.988046
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001372
Std Err of Coef. 0.000150

Element:

ppm = -0.3 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
0.03604	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS11P3 Sb
Dil. Fct. 105

DATE 03/31/96
Regression Output:

Counts	ppb	Constant	4.154649
-----	-----	Std Err of Y Est	8.690755
47	0.0	R Squared	0.984894
14982	50.0	No. of Observations	3
		Degrees of Freedom	1

38074 100.0

X Coefficient(s) 0.002589
Std Err of Coef. 0.000320

Element:

ppm = -0.4 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03604	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS11P3 Se
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

101 0.0
1648 50.0
4000 100.0

Constant 1.539225
Std Err of Y Est 8.369572
R Squared 0.985990
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.025288
Std Err of Coef. 0.003014

Element:

ppm = -0.2 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
il Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
30.03604	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS11P3 Sm

DATE 03/31/96

Dil. Fct. 105

Regression Output:

Constant

10.90012

Counts	ppb	Std Err of Y Est	19.28776
-----	-----	R Squared	0.925596
17	0.0	No. of Observations	3
1029	50.0	Degrees of Freedom	1
3994	100.0		
-----	-----	X Coefficient(s)	0.023273
		Std Err of Coef.	0.006598

Element:

ppm = -1.1 (ppm)

Filename:\SAIC\MS4P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4994	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03604	3.5	1	1

Tot. Dil Fct. 105.1

Integrals for : PRP BLANK 13 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	142	5	1916	9044	279087	21745	3190	4411
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	488	345	5989	14377	9049	833	922	5447
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	28724	2607	15750	3434	17	83	8293	130
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	1702	4911	589	488	59	113	148	1702
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	460800	35	35	255	3464	11	0	0
Peak	Tl 205	Pb 208	Bi 209	U 238				
S	11	636	35	11				

Integrals for : MS11 P3 +0.1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	4185	142	2339	12302	13915807	245706	33374	13343
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	2440	13487	6578	21678	17222	410	398	2023
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	2845	1535	1220	40247	476	261	6965	101
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	1428	3881	1255	327	77	89	29	1113
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	341702	47	29	148	1511	23	17	29
Peak	Tl 205	Pb 208	Bi 209	U 238				
S	41	214	11	291				

Integrals for : MS11 P3 +50 :

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	52395	13844	35324	185398	14088647	382494	50825	308848
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	42101	143435	115732	160866	22977	128694	29536	60958
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	25964	28480	14178	126855	1625	6941	11390	1648
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	3339	5173	13683	34128	52626	50338	10240	25152
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Hd 146	Sm 147	Tl 203
CPS	602349	14982	11622	10348	17133	1702	1029	14273
Peak	Tl 205	Pb 208	Bi 209	U 238				
	34063	23921	28673	29563				

Integrals for : MS11 P3 +100 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	134925	35016	81708	434430	14965479	725595	91650	324496
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	41443	332193	277632	389180	33003	317295	72389	146470
Peak	Zn 64	Cu 65	Zn 66	Ba 69	Se 74	As 75	Se 76	Se 77
CPS	56658	65952	29333	278434	3928	15471	17378	4000
Peak	Se 78	Se 82	Rb 85	Sr 86	Ag 107	Ag 109	Cd 111	Cd 114
CPS	6223	2463	31436	23593	120301	115286	23615	55278
Peak	In 115	Sn 121	Sb 123	Cs 133	Ba 138	Nd 146	Sr 147	Tl 203
CPS	210308	38074	29553	28671	50045	5477	3394	36267
Peak	Tl 205	Pb 208	Bi 209	U 238				
CPS	84195	59624	71838	51522				

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STANDARD ADDITIONS

SAMPLE: MS11P4 Ag
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

271 0.0
55779 50.0
115176 100.0

Constant 0.347201
Std Err of Y Est 1.381466
R Squared 0.999618
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000869
Std Err of Coef. 0.000016

Element:

ppm = -0.0 (ppm)

Filename:\SAIC\MS11P4\

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)

0.5003	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.98201	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS11P4 B
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

7189 0.0
13496 50.0
26107 100.0

Constant -29.5043
Std Err of Y Est 13.35897
R Squared 0.964307
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.005097
Std Err of Coef. 0.000980

Element:

ppm = 3.1 (ppm)

Filename:\SAIC\MS11P4\

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5003	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.98201	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS11P4 Cd

DATE 03/30/96

Dil. Fct. 105

Regression Output:

COUNTS ppb

Constant 1.916448

Std Err of Y Est 4.964317

R Squared 0.995071

No. of Observations 3

Degrees of Freedom 1

69 0.0

8641 50.0

19593 100.0

X Coefficient(s) 0.005096

Std Err of Coef. 0.000358

Element:

ppm = -0.2 (ppm)

Filename:\SAIC\MS11P4\

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5003	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.98201	3.5	1	1

Tot. Dil Fct.

104.9

STANDARD ADDITIONS

SAMPLE: MS11P4 Co
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

1174 0.0
144124 50.0
275379 100.0

Constant -1.10799
Std Err of Y Est 1.740674
R Squared 0.999394
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000364
Std Err of Coef. 0.000008

Element:

ppm = 0.1 (ppm)

Filename:\SAIC\MS11P4\

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5003	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.98201	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS11P4 Cu
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS	ppb
3136	0.0
61088	50.0
132642	100.0

Constant	-0.48537
Std Err of Y Est	4.279965
R Squared	0.996336
No. of Observations	3
Degrees of Freedom	1

X Coefficient(s) 0.000769
Std Err of Coef. 0.000046

Element:

ppm = 0.1 (ppm)

Filename:\SAIC\MS11P4\

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5003	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.98201	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS11P4 Fe
Dil. Fct. 90

DATE 03/31/96

Regression Output:

ABS Units ppm

22 0.0
80 3.3
124 6.0

Constant -1.32495
Std Err of Y Est 0.078473
R Squared 0.999661
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.058972
Std Err of Coef. 0.001084

Element:

ppm = 119.2 (ppm)

Filename:\SAIC\MS11P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5003	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	6	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.98201	3	1	1

Tot. Dil Fct. 89.9

STANDARD ADDITIONS

SAMPLE: MS11P4 Li
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

13601 0.0
113772 50.0
238184 100.0

Constant -4.04725
Std Err of Y Est 4.398011
R Squared 0.996131
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000443
Std Err of Coef. 0.000027

Element:

ppm = 0.4 (ppm)

Filename:\SAIC\MS11P4\

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5003	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.98201	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS11P4 Mn
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

48605 0.0
214654 50.0

Constant -13.7240
Std Err of Y Est 1.166312
R Squared 0.999727
No. of Observations 3
Degrees of Freedom 1

390471 100.0

X Coefficient(s) 0.000292
Std Err of Coef. 0.000004

Element:

ppm = 1.4 (ppm)

Filename:\SAIC\MS11P4\

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5003	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.98201	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS11P4 Nd
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

57 0.0
937 50.0
2071 100.0

Constant -0.46070
Std Err of Y Est 5.135117
R Squared 0.994726
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.049390
Std Err of Coef. 0.003596

Element:

ppm = 0.0 (ppm)

Filename:\SAIC\MS11P4\

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5003	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.98201	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS11P4 Ni

DATE 03/30/96

Dil. Fct. 105

Regression Output:

Constant

-2.55946

COUNTS	ppb	Std Err of Y Est	2.332647
-----	-----	R Squared	0.998911
943	0.0	No. of Observations	3
30900	50.0	Degrees of Freedom	1
57617	100.0		
-----	-----	X Coefficient(s)	0.001762
Element:		Std Err of Coef.	0.000058
		ppm =	0.3 (ppm)
Filename:\SAIC\MS11P4\			

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5003	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.98201	3.5	1	1
Tot. Dil Fct.	104.9		

STANDARD ADDITIONS

SAMPLE: MS11P4 Sb
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

46 0.0
14478 50.0
28325 100.0

Constant -0.50023
Std Err of Y Est 0.844471
R Squared 0.999857
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.003535
Std Err of Coef. 0.000042

Element:

ppm = 0.1 (ppm)

Filename:\SAIC\MS11P4\

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Algt. from #1(g)	Algt. from #2(g)	Algt. from #3(g)
0.5003	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.98201	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS11P4 Se

DATE 03/31/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant -2.65784

Std Err of Y Est 3.785679

R Squared 0.997133

No. of Observations 3

Degrees of Freedom 1

0.0

50.0

100.0

X Coefficient(s) 0.001321

Std Err of Coef. 0.000070

Element:

ppm = 0.3 (ppm)

Filename:\SAIC\MS1P12

5.5 ppm best Est

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
29.52174	3.5	1	1

Tot. Dil Fct. 103.3

STANDARD ADDITIONS

SAMPLE: MS11P4 Sm

DATE 03/30/96

Dil. Fct. 105

Regression Output:

COUNTS	ppb
-----	-----
11	0.0
694	50.0
1597	100.0
-----	-----

Constant	1.926661
Std Err of Y Est	5.644891
R Squared	0.993627
No. of Observations	3
Degrees of Freedom	1

X Coefficient(s)	0.062649
Std Err of Coef.	0.005017

Element:

ppm = -0.2 (ppm)

Filename:\SAIC\MS11P4\

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5003	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
99.98201	3.5	1	1

Tot. Dil Fct. 104.9

Integrals for : PRO BLANK 1

Peak	Li	7	Be	9	B	10	B	11	Na	23	Mg	24	Mg	25	Ca	44
CPS		271		11		4265		19833		329068		27290		3536		11867
Peak	Sc	45	V	51	Cr	52	Mn	55	Fe	57	Co	59	Ni	80	Cu	63
CPS		2772		642		8728		17060		19158		1701		1550		7611
Peak	Zn	64	Cu	65	Zn	66	Ga	69	As	75	Se	82	Rb	85	Sr	88
CPS		31131		3929		18377		1116		63		7379		925		931
Peak	Ag	107	Ag	109	Cd	111	Cd	114	In	115	Sb	121	Sb	123	Cs	133
CPS		98		115		214		2413		854708		69		57		219
Peak	Ba	138	Nd	146	Sm	147	Tl	203	Tl	205	Pb	208	Bi	209	U	238
		11438		5		0		34		86		1111		23		0

Integrals for : MS11 P4 +0.1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	13601	468	7189	34939	5314279	225345	31280	50464
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	3768	18869	8850	48605	50485	1174	943	3136
Peak	Zn 64	Cu 65	Zn 66	Ga 69	As 75	Se 82	Pb 85	Sr 88
CPS	7136	12962	2390	95782	162	6824	2002	1498
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sb 121	Sb 123	Cs 133
CPS	1695	271	69	1475	673821	48	69	248
Peak	Ba 138	Nd 146	Sm 147	Tl 203	Tl 205	Pb 208	Bi 209	U 238
CPS	7825	57	11	5	52	434	46	925

Integrals for : MS11 P4 +50.1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	113772	27111	13496	65005	5240752	290949	43209	35682
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	3385	193053	159149	214654	55534	144124	30900	61088
Peak	Zn 64	Cu 65	Zn 66	Ga 69	As 75	Se 82	Pb 85	Sr 88
CPS	23764	35944	11861	178259	8051	6088	15006	27734
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sb 121	Sb 123	Cs 133
CPS	66789	55779	8641	20948	583789	14478	11919	9776
Peak	Ba 138	Nd 146	Sm 147	Tl 203	Tl 205	Pb 208	Bi 209	U 238
S	26378	937	694	14386	29267	20805	19947	39427

Integrals for : MS11 P4 +100 :

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	235184	52574	26107	118385	5616241	406563	61142	44628
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	3275	239030	288111	390471	48179	275379	57617	132642
Peak	Zn 64	Cu 65	Zn 66	Ga 69	As 75	Se 82	Rb 85	Sr 88
CPS	47572	71659	23078	235455	14994	6719	27138	53478
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sb 121	Sb 123	Cs 133
CPS	125243	115176	19593	44354	688285	28325	20166	19020
Peak	Ba 138	Nd 146	Sm 147	Tl 203	Tl 205	Pb 208	Bi 209	U 238
S	38956	2071	1597	28866	65833	40766	39386	77768

STANDARD ADDITIONS

SAMPLE: MS12P2 Ag
 Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

Constant 4.220850

Std Err of Y Est 8.872249

R Squared 0.984256

No. of Observations 3

Degrees of Freedom 1

 92 0.0

22222 50.0

56767 100.0

X Coefficient(s) 0.001736

Std Err of Coef. 0.000219

Element:

ppm = -0.4 (ppm)

Filename:\SAIC\MS12P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5002	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.98800	3.5	1	1

Tot. Dil Fct. 105

STANDARD ADDITIONS

SAMPLE: MS15P2 B
Dil. Fct. 103

DATE 03/31/96

Regression Output:

Counts	ppb	Constant	-2.65784
-----	-----	Std Err of Y Est	3.785679
	0.0	R Squared	0.997133
	50.0	No. of Observations	3
	100.0	Degrees of Freedom	1
-----	-----	X Coefficient(s)	0.001321
		Std Err of Coef.	0.000070

Element:

ppm = 0.3 (ppm)

Filename:\SAIC\MS1P12

5.5 ppm best Est

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)

15

7

1

1

Dil Fct. #1
29.52174

Dil. Fct. #2
3.5

Dil. Fct. #3
1

Dil. Fct. #4
1

Tot. Dil Fct.

103.3

STANDARD ADDITIONS

SAMPLE: MS12P2 B
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

3145 0.0
26457 50.0
80329 100.0

Constant 4.881932
Std Err of Y Est 15.75759
R Squared 0.950339
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001231

Element:

Std Err of Coef. 0.000281

ppm = -0.5 (ppm)

Filename:\SAIC\MS12P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5002	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.98800	3.5	1	1

Tot. Dil Fct. 105

STANDARD ADDITIONS

SAMPLE: MS12P2 Cd
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS	ppb
-----	-----
260	0.0
12879	50.0
27485	100.0

Constant	0.349559
Std Err of Y Est	2.976933
R Squared	0.998227
No. of Observations	3
Degrees of Freedom	1

X Coefficient(s)	0.003666
Std Err of Coef.	0.000154

Element:

ppm = -0.0 (ppm)

Filename:\SAIC\MS12P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5002	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
29.98800	3.5	1	1
Tot. Dil Fct.	105		

STANDARD ADDITIONS

SAMPLE: MS12P2 CO
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

Constant 12.37976

Std Err of Y Est 21.34496

R Squared 0.908878

No. of Observations 3

Degrees of Freedom 1

1441 0.0

62557 50.0

272121 100.0

X Coefficient(s) 0.000335

Std Err of Coef. 0.000106

Element:

ppm = -1.3 (ppm)

Filename:\SAIC\MS12P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5002	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.98800	3.5	1	1

Tot. Dil Fct. 105

STANDARD ADDITIONS

SAMPLE: MS12P2 Cu
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

2309 0.0
24905 50.0
55066 100.0

Constant -1.63289
Std Err of Y Est 5.834047
R Squared 0.993192
No. of Observations 3
Degrees of Freedom 1
X Coefficient(s) 0.001882
Std Err of Coef. 0.000155

Element:

ppm = 0.2 (ppm)

Filename:\SAIC\MS12P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5002	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.98800	3.5	1	1

Tot. Dil Fct. 105

STANDARD ADDITIONS

SAMPLE: MS12P2 Fe

DATE 03/31/96

Dil. Fct. 90

Regression Output:

ABS Units ppm

Constant -1.70718

Std Err of Y Est 0.034402

R Squared 0.999963

No. of Observations 3

Degrees of Freedom 1

X Coefficient(s) 0.057347

Std Err of Coef. 0.000347

Element:

ppm = 153.6 (ppm)

Filename:\SAIC\MS12P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5002	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	6	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.98800	3	1	1

Tot. Dil Fct. 90.0

STANDARD ADDITIONS

SAMPLE: MS12P2 Li
 il. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

Constant

-0.75425

Std Err of Y Est

17.40225

R Squared

0.939432

No. of Observations

3

Degrees of Freedom

1

X Coefficient(s) 0.001103

Std Err of Coef. 0.000280

Element:

ppm = 0.1 (ppm)

Filename:\SAIC\MS12P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5002	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.98800	3.5	1	1

Tot. Dil Fct. 105

STANDARD ADDITIONS

SAMPLE: MS12P2 Mn
Dil. Fct. 105

DATE 03/30/96

Regression Output:

ABS units ppb

84396 0.0
171335 50.0
270121 100.0

Constant -44.2504
Std Err of Y Est 2.602364
R Squared 0.998645
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000537

Std Err of Coef. 0.000019

Element: -----

ppm = 4.6 (ppm)

Filename:\SAIC\MS12P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5002	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.98800	3.5	1	1

Tot. Dil Fct. 105

STANDARD ADDITIONS

SAMPLE: MS12P2 Nd
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

451 0.0
1583 50.0
2512 100.0

Constant -23.2871
Std Err of Y Est 4.014591
R Squared 0.996776
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.048363
Std Err of Coef. 0.002750

Element:

ppm = 2.4 (ppm)

Filename:\SAIC\MS12P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5002	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
29.98800	3.5	1	1

Tot. Dil Fct. 105

STANDARD ADDITIONS

SAMPLE: MS12P2 Ni DATE 03/30/96
 Dil. Fct. 105 Regression Output:
 Constant -0.09302
 Std Err of Y Est 6.521135
 COUNTS ppb

-----	-----	R Squared	0.991494
1012	0.0	No. of Observations	3
14303	50.0	Degrees of Freedom	1
32673	100.0		

X Coefficient(s) 0.003131
 Std Err of Coef. 0.000290

Element:

ppm = 0.0 (ppm)

Filename:\SAIC\MS12P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5002	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.98800	3.5	1	1

Tot. Dil Fct. 105

STANDARD ADDITIONS

SAMPLE: MS12P2 Sb
Dil. Fct. 105

DATE 03/30/96

Regression Output:

COUNTS ppb

52 0.0
8698 50.0
29680 100.0

Constant 9.125827
Std Err of Y Est 16.52713
R Squared 0.945370
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.003190
Std Err of Coef. 0.000767

Element:

ppm = -1.0 (ppm)

Filename:\SAIC\MS12P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5002	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.98800	3.5	1	1

Tot. Dil Fct. 105

STANDARD ADDITIONS

SAMPLE: MS12P2 Se
Dil. Fct. 105

DATE 03/31/96

Regression Output:

Counts ppb

Constant -2.65784
Std Err of Y Est 3.785679
R Squared 0.997133

0.0
50.0
100.0

No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001321
Std Err of Coef. 0.000070

Element:

ppm = 0.3 (ppm)

Filename:\SAIC\MS1P12

5.5 ppm best Est

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
iluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.52174	3.5	1	1

Tot. Dil Fct. 103.3

STANDARD ADDITIONS

SAMPLE: MS12P2 Sm
Dil. Fct.: 105

DATE 03/30/96

Regression Output:

COUNTS ppb

 86 0.0
 785 50.0
 1363 100.0

Constant -8.13975
Std Err of Y Est 3.862513
R Squared 0.997016
No. of Observations 3
Degrees of Freedom 1

Element:

X Coefficient(s) 0.078074
Std Err of Coef. 0.004271

ppm = 0.9 (ppm)

Filename:\SAIC\MS12P2

DILUTIONS

#1	#2	#3	#4
amp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5002	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.98800	3.5	1	1

Tot. Dil Fct. 105

BLANK FOR MS4

Integrals for : PRO BLANK 14 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	208	0	964	5233	279876	22932	2928	3863
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	303	338	5774	13351	9591	904	886	5256
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	28152	2440	16436	3357	23	77	9014	136
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	2095	5584	619	416	59	71	196	1809
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	509108	29	47	142	2970	11	11	11
Peak	Tl 205	Pb 206	Bi 209	U 238				
TS	41	827	11	17				

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Integrals for : MS12 +0.1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	9666	2488	5145	24022	9666051	407183	67373	58347
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	3310	8022	4989	86396	37017	1441	1012	2309
Peak	Zn 64	Cu 65	Zn 66	Ga 69	As 75	Se 82	Rb 85	Sr 88
CPS	6754	8401	3935	139604	1325	2424	3877	10929
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sb 121	Sb 123	Cs 133
CPS	92	69	17	260	206184	52	57	156
Peak	Ba 138	Nd 146	Sm 147	Tl 203	Tl 205	Pb 208	Bi 209	U 238
CPS	20804	451	86	28	34	758	677	416

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Integrals for : MS12 +50 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	33507	6883	28457	136008	10430298	580992	87908	64173
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	3964	58309	50713	173335	48277	62557	14303	24905
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	17944	16180	10324	175279	1244	3720	12588	1255
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	3554	3202	11968	12427	22222	21966	5548	12879
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Hd 146	Sm 147	Tl 203
CPS	258852	8698	6388	13249	19940	1583	785	9318
Peak	Tl 205	Pb 208	Bi 209	U 238				
S	20136	8775	12212	15089				

Integrals for : MS12 +100 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	94781	29387	82329	395672	10648563	660219	94271	66819
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	4798	158036	127996	272121	50364	131070	32673	55066
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	35518	28498	19888	273695	1642	9312	13088	1785
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	4292	3827	21054	18235	56767	54552	16158	27485
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	285940	29680	13668	16049	16722	2512	1363	18623
Peak	Tl 205	Pb 208	Bi 209	U 238				
CPS	44217	16948	26794	33699				

Integrals for : MS 12 P3 +0 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	4625	244	2041	15539	10233685	345005	60188	78809
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	5447	9419	7156	49996	36666	1059	946	1869
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	7811	7097	4577	167311	464	154	3265	976
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	1881	3089	2227	4762	166	101	35	3781
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Hd 146	Sm 147	Tl 203
CPS	254342	65	65	113	9484	214	23	11
Peak	Tl 205	Pb 208	Bi 209	U 238				
S	261	500	41	896				

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STANDARD ADDITIONS

SAMPLE: MS12P3 Li
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

4625 0.0
31189 50.0
52899 100.0

Constant -11.0508
Std Err of Y Est 4.098078
R Squared 0.996641
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.002064
Std Err of Coef. 0.000119

Element:

ppm = 1.2 (ppm)

Filename:\SAIC\MS12P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4995	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03003	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS12P3 Mn

DATE 03/30/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant

-49.6259

Std Err of Y Est

2.379171

R Squared

0.998867

No. of Observations

3

Degrees of Freedom

1

49996 0.0

104245 50.0

152516 100.0

X Coefficient(s) 0.000974

Std Err of Coef. 0.000032

Element:

ppm = 5.2 (ppm)

Filename:\SAIC\MS12P3

DILUTIONS

#1	#2	#3	#4
Wt. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4995	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil. Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03003	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS12P3 Nd

DATE 03/30/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant -11.1691

Std Err of Y Est 0.000000

R Squared 1

214 0.0

No. of Observations 3

1172 50.0

Degrees of Freedom 1

1172 50.0

X Coefficient(s) 0.052192

Std Err of Coef. 0.000000

Element:

ppm = 1.2 (ppm)

Filename:\SAIC\MS12P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4995	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03003	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS12P3 Ni
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts	ppb
946	0.0
11664	50.0
22031	100.0

Constant	-4.75899
Std Err of Y Est	0.679575
R Squared	0.999907
No. of Observations	3
Degrees of Freedom	1

X Coefficient(s) 0.004742

Element:

Std Err of Coef. 0.000045

ppm = 0.5 (ppm)

Filename:\SAIC\MS12P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4995	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03003	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS12P3 Sb

DATE 03/30/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant 0.193044

Std Err of Y Est 1.355188

R Squared 0.999632

No. of Observations 3

Degrees of Freedom 1

X Coefficient(s) 0.005822

Std Err of Coef. 0.000111

Element:

ppm = -0.0 (ppm)

Filename:\SAIC\MS12P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4995	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03003	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS12P3 Se
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

Constant -40.8021
Std Err of Y Est 14.88294
R Squared 0.955699

464 0.0
1285 50.0
1660 100.0

No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.079907
Std Err of Coef. 0.017204

Element:

ppm = 4.3 (ppm)

Filename:\SAIC\MS12P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4995	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03003	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS12P3 Sm
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts	ppb
-----	-----
24	0.0
613	50.0
613	50.0

Constant	-2.03735
Std Err of Y Est	0
R Squared	1
No. of Observations	3
Degrees of Freedom	1

X Coefficient(s)	0.084889
Std Err of Coef.	0

Element:

ppm = 0.2 (ppm)

Filename:\SAIC\MS12P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4995	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03003	3.5	1	1

Tot. Dil Fct. 105.1

THIS DATA IS UNRELIABLE

Integrals for : PRO BLANK 5 :

Peak	Li	7	Be	9	B	10	B	11	Na	23	Mg	24	Mg	25	Ca	44
CPS		17		0		4063		28908		21598		190		75		225
Peak	Sc	45	V	51	Cr	52	Mn	55	Fe	57	Co	59	Ni	60	Cu	63
CPS		127		260		185		555		358		57		17		46
Peak	Zn	64	Cu	65	Zn	66	Ga	69	As	75	Se	82	Rb	85	Sr	88
CPS		23		86		57		173		5		266		81		52
Peak	Ag	107	Ag	109	Cd	111	Cd	114	In	115	Sb	121	Sb	123	Cs	133
CPS		5		5		0		0		208		5		0		5
Peak	Ba	138	Nd	146	Sm	147	Tl	203	Tl	205	Pb	208	Bi	209	U	238
CPS		5		11		5		5		0		5		5		11

Integrals for : MS 12 P3 +50 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	31189	10051	4899	22135	9841219	361114	54070	74670
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	5339	62411	52993	104245	39821	47269	11664	22572
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	19449	14380	10532	205852	1285	4059	10175	982
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	3018	3041	12760	10228	22542	21839	5292	13141
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	284792	8364	6774	8358	9270	1172	613	8543
Peak	Tl 205	Pb 208	Bi 209	U 238				
	19481	5548	12022	14542				

Integrals for : MS 12 P3 +100 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	52899	19101	7150	32510	9646092	398643	66720	72253
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	5197	101769	84915	152516	38037	101025	22031	44873
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	28616	28556	17084	204628	1660	7829	9984	3250
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	3137	3524	17728	10794	42939	41292	9532	23656
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	323375	17233	12867	13594	14380	1202	630	14767
Peak	Tl 205	Pb 208	Bi 209	U 238				
S	36949	9145	23414	28358				

STANDARD ADDITIONS

SAMPLE: MS12P3 Ag

DATE 03/30/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant -1.12274

Std Err of Y Est 1.888189

R Squared 0.999286

No. of Observations 3

Degrees of Freedom 1

166 0.0

22542 50.0

42939 100.0

X Coefficient(s) 0.002336

Std Err of Coef. 0.000062

Element:

ppm = 0.1 (ppm)

Filename:\SAIC\MS12P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4995	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03003	3.5	1	1

Tot. Dil Fct.

105.1

STANDARD ADDITIONS

SAMPLE: MS12P3 B
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

2041 0.0
4899 50.0
7150 100.0

Constant -41.4987
Std Err of Y Est 4.839024
R Squared 0.995316
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.019481
Std Err of Coef. 0.001336

Element:

ppm = 4.4 (ppm)

Filename:\SAIC\MS12P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4995	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03003	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS12P3 Cd

DATE 03/30/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant -17.9788

Std Err of Y Est 2.371127

R Squared 0.998875

No. of Observations 3

Degrees of Freedom 1

3781 0.0

13141 50.0

23656 100.0

X Coefficient(s) 0.005025

Std Err of Coef. 0.000168

Element:

ppm = 1.9 (ppm)

Filename:\SAIC\MS12P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4995	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)

15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03003	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS12P3 Co

DATE 03/30/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant 0.293145

Std Err of Y Est 3.078766

R Squared 0.998104

No. of Observations 3

Degrees of Freedom 1

X Coefficient(s) 0.000998

Std Err of Coef. 0.000043

Element:

ppm = -0.0 (ppm)

Filename:\SAIC\MS12P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4995	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03003	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS12P3 Cu
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

1869 0.0
22572 50.0
44873 100.0

Constant -3.70206
Std Err of Y Est 1.516674
R Squared 0.999539
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.002324
Std Err of Coef. 0.000049

Element:

ppm = 0.4 (ppm)

Filename:\SAIC\MS12P3

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4995	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03003	3.5	1	1

Tot. Dil Fct. 105.1

STANDARD ADDITIONS

SAMPLE: MS12P3 Fe
Dil. Fct. 90

DATE 03/31/96
Regression Output:
Constant -2.69188

ABS Units	ppm	Std Err of Y Est	0.070554
-----	-----	R Squared	0.999726
43	0.0	No. of Observations	3
98	3.3	Degrees of Freedom	1
140	6.0		
		X Coefficient(s)	0.062023
		Std Err of Coef.	0.001025
-----	-----		
Element:		ppm =	242.5 (ppm)
Filename:\SAIC\MS12P3			

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.4995	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	6	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
30.03003	3	1	1

Tot. Dil Fct. 90.1

STANDARD ADDITIONS

SAMPLE: MS12P4 Ag

DATE 03/30/96

Dil. Fct. 105

Counts ppb

178 0.0

132222 50.0

292692 100.0

Element:

Filename:\SAIC\MS12P4

Regression Output:

Constant -0.16332

Std Err of Y Est 0.598148

R Squared 0.999928

No. of Observations 3

Degrees of Freedom 1

X Coefficient(s) 0.002390

Std Err of Coef. 0.000020

ppm = 0.0 (ppm)

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5001	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.99400	3.5	1	1

Tot. Dil Fct. 105

STANDARD ADDITIONS

SAMPLE: MS12P4 B
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

8286 0.0
145322 50.0
328550 100.0

Constant 0.162194
Std Err of Y Est 5.867896
R Squared 0.993113
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000310
Std Err of Coef. 0.000025

Element:

ppm = -0.0 (ppm)

Filename:\SAIC\MS12P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5001	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.99400	3.5	1	1

Tot. Dil Fct.

105

STANDARD ADDITIONS

SAMPLE: MS12P4 Cd
 Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

 839 0.0
 60182 50.0
 130045 100.0

Constant 0.816339
 Std Err of Y Est 3.320306
 R Squared 0.997795
 No. of Observations 3
 Degrees of Freedom 1

X Coefficient(s) 0.000772
 Std Err of Coef. 0.000036

Element:

ppm = -0.1 (ppm)

Filename:\SAIC\MS12P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5001	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.99400	3.5	1	1

Pot. Dil Fct. 105

STANDARD ADDITIONS

SAMPLE: MS12P4 Co
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

1875 0.0
282115 50.0
578823 100.0

Constant 0.164269
Std Err of Y Est 1.165117
R Squared 0.999728
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000173
Std Err of Coef. 0.000002

Element:

ppm = -0.0 (ppm)

Filename:\SAIC\MS12P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5001	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1

Dil Fct. #1
29.99400

Dil. Fct. #2
3.5

Dil. Fct. #3
1

Dil. Fct. #4
1

Tot. Dil Fct.

105

STANDARD ADDITIONS

SAMPLE: MS12P4 Cu
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

2351 0.0
154879 50.0
324652 100.0

Constant 0.209836
Std Err of Y Est 2.183327
R Squared 0.999046
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000309
Std Err of Coef. 0.000009

Element:

ppm = -0.0 (ppm)

Filename:\SAIC\MS12P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5001	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.99400	3.5	1	1

Tot. Dil Fct. 105

STANDARD ADDITIONS

SAMPLE: MS12P4 Fe
Dil. Fct. 90

DATE 03/31/96

Regression Output:

ABS Units ppm

28 0.0
96 4.3
150 8.0

Constant -1.89450
Std Err of Y Est 0.154033
R Squared 0.999264
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.065677
Std Err of Coef. 0.001781

Element:

ppm = 170.5 (ppm)

Filename:\SAIC\MS12P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5001	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	6	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.99400	3	1	1

Tot. Dil Fct. 90.0

STANDARD ADDITIONS

SAMPLE: MS12P4 Li

DATE 03/30/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant -1.94966

Std Err of Y Est 0.599665

R Squared 0.999928

No. of Observations 3

Degrees of Freedom 1

5340 0.0

163906 50.0

317881 100.0

X Coefficient(s) 0.000319

Std Err of Coef. 0.000002

Element:

ppm = 0.2 (ppm)

Filename:\SAIC\MS12P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)

0.5001	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.99400	3.5	1	1

Tot. Dil Fct. 105

STANDARD ADDITIONS

SAMPLE: MS12P4 Mn
Dil. Fct. 105

DATE 03/30/96

Regression Output:

counts ppb

51132 0.0
294467 50.0
604709 100.0

Constant -6.94498
Std Err of Y Est 4.922243
R Squared 0.995154
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000179
Std Err of Coef. 0.000012

Element:

ppm = 0.7 (ppm)

Filename:\SAIC\MS12P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5001	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.99400	3.5	1	1

Tot. Dil Fct. 105

STANDARD ADDITIONS

SAMPLE: MS12P4 Nd

DATE 03/30/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant 2.178463

Std Err of Y Est 5.486383

R Squared 0.993979

196 0.0

No. of Observations 3

23897 50.0

Degrees of Freedom 1

54983 100.0

X Coefficient(s) 0.001814

Std Err of Coef. 0.000141

Element:

ppm = -0.2 (ppm)

Filename:\SAIC\MS12P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5001	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.99400	3.5	1	1

Tot. Dil Fct. 105

STANDARD ADDITIONS

SAMPLE: MS12P4 Ni
Dil. Fct. 105

DATE 03/30/96

Regression Output:
Constant 0.004759

Counts	ppb	Std Err of Y Est	1.573011
-----	-----	R Squared	0.999505
922	0.0	No. of Observations	3
67842	50.0	Degrees of Freedom	1
140127	100.0		
		X Coefficient(s)	0.000718
		Std Err of Coef.	0.000015
-----	-----		
Element:		ppm =	-0.0 (ppm)

Filename:\SAIC\MS12P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Algt. from #1(g)	Algt. from #2(g)	Algt. from #3(g)
0.5001	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.99400	3.5	1	1

Tot. Dil Fct. 105

STANDARD ADDITIONS

SAMPLE: MS12P4 Sb

DATE 03/30/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant 2.615900

Std Err of Y Est 5.930481

R Squared 0.992965

No. of Observations 3

Degrees of Freedom 1

X Coefficient(s) 0.001141

Std Err of Coef. 0.000096

Element:

ppm = -0.3 (ppm)

Filename: \SAIC\MS12P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5001	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.99400	3.5	1	1

Tot. Dil Fct.

105

STANDARD ADDITIONS

SAMPLE: MS12P4 Se
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

309 0.0
15113 50.0
33846 100.0

Constant 1.254213
Std Err of Y Est 4.771896
R Squared 0.995445
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.002968
Std Err of Coef. 0.000200

Element:

ppm = -0.1 (ppm)

Filename:\SAIC\MS12P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5001	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.99400	3.5	1	1

Tot. Dil Fct. 105

STANDARD ADDITIONS

SAMPLE: MS12P4 Sm

DATE 03/30/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant 2.572323

Std Err of Y Est 5.951170

R Squared 0.992916

No. of Observations 3

Degrees of Freedom 1

34837 100.0

X Coefficient(s) 0.002855

Std Err of Coef. 0.000241

Element:

ppm = -0.3 (ppm)

Filename:\SAIC\MS12P4

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5001	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.99400	3.5	1	1

Tot. Dil Fct. 105

Integrals for : PPG 3144-1-1

Peak		Se 3	B 11	B 11	Na 25	Mg 24	Mg 25	Ca 44
CPS	100	25	5325	24991	331538	22312	3461	6280
Peak	Sc 46	51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	1747	271	4908	12605	12579	677	908	4526
Peak	Zn 64	Cd 65	Zn 66	Ga 69	As 75	Se 82	Rb 85	Sr 88
CPS	17114	1904	10124	596	57	4265	451	474
Peak	Ag 107	Ag 109	Cd 111	Cd 114	In 115	Sb 121	Sb 123	Cs 133
CPS	52	98	109	1151	432258	57	28	127
Peak	Ba 138	Nd 146	Sm 147	Tl 203	Tl 205	Pb 208	Bi 209	U 238
CPS	4763	23	5	17	17	729	5	5

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Integrals for : MS12 P4 +0.1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	5340	244	3047	14286	8567368	350261	60586	70171
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	4601	9893	5971	61132	34835	1875	922	2351
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	8621	8491	4935	159125	410	250	9498	309
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	1994	3339	2803	3512	178	95	95	839
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	271970	130	154	184	9937	196	71	35
Peak	Tl 205	Pb 208	Bi 209	U 238				
CPS	65	601	17	738				

Integrals for : MS12 P4 +50 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	37115	11623	32644	158249	8051663	384281	59357	68095
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	4988	65118	54109	124347	37322	59312	14291	28259
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	21380	17848	12444	193671	1339	4387	9776	1452
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	2672	3631	14916	11158	28661	24533	5727	13724
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	272804	9752	7781	11610	13022	1601	773	9264
Peak	Tl 205	Pb 208	Bi 209	U 238				
CPS	22544	9431	13898	19076				

Integrals for : MS12 P4 +100 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	85154	26220	73488	356945	9215523	482091	74376	60812
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	4595	139868	123750	222712	43573	132677	29190	54125
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	36236	28741	19420	248839	2976	10788	15029	2595
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	3768	3893	22096	16542	58569	59236	14421	32025
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Hd 146	Sm 147	Tl 203
CPS	328187	20737	14800	24623	15708	2732	1607	20178
Peak	Tl 205	Pb 208	Bi 209	U 238				
	47695	21048	32506	39025				

STANDARD ADDITIONS

SAMPLE: MS14P2 Ag

DATE 03/30/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant -0.16332

Std Err of Y Est 0.598148

R Squared 0.999928

No. of Observations 3

Degrees of Freedom 1

172 0.0

20784 50.0

42009 100.0

X Coefficient(s) 0.002390

Std Err of Coef. 0.000020

Element:

ppm = 0.0 (ppm)

Filename:\SAIC\MS14P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS14P2 B
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

1732 0.0
37622 50.0
56191 100.0

Constant -6.57365
Std Err of Y Est 12.77103
R Squared 0.967380
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001776
Std Err of Coef. 0.000326

Element:

ppm = 0.7 (ppm)

Filename:\SAIC\MS14P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS14P2 Cd

DATE 03/30/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant

-4.11055

Std Err of Y Est

3.998095

R Squared

0.996803

595 0.0

No. of Observations

3

12926 50.0

Degrees of Freedom

1

23054 100.0

X Coefficient(s) 0.004438

Std Err of Coef. 0.000251

Element:

ppm = 0.4 (ppm)

Filename:\SAIC\MS14P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS14P2 Co

DATE 03/30/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant -2.14441

Std Err of Y Est 2.547580

R Squared 0.998701

No. of Observations 3

Degrees of Freedom 1

1226 0.0

56821 50.0

105881 100.0

X Coefficient(s) 0.000954

Std Err of Coef. 0.000034

Element:

ppm = 0.2 (ppm)

Filename:\SAIC\MS14P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS14P2 Cu
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

2672 0.0
24140 50.0
44862 100.0

Constant -6.62205
Std Err of Y Est 0.721823
R Squared 0.999895
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.002369
Std Err of Coef. 0.000024

Element:

ppm = 0.7 (ppm)

Filename:\SAIC\MS14P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)

15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS14P2 Fe
Dil. Fct. 90

DATE 03/31/96

Regression Output:

ABS Units ppm

53 0.0
119 4.3
176 8.0

Constant -3.46516
Std Err of Y Est 0.018086
R Squared 0.999989
No. of Observations 3
Degrees of Freedom 1
X Coefficient(s) 0.065251

Element:

Std Err of Coef. 0.000207

ppm = 311.5 (ppm)

Filename:\SAIC\MS14P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	6	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
29.96404	3	1	1

Tot. Dil Fct. 89.9

STANDARD ADDITIONS

SAMPLE: MS14P2 Li

DATE 03/30/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant -19.7101

Std Err of Y Est 10.47390

R Squared 0.978059

No. of Observations 3

Degrees of Freedom 1

8647 0.0

40771 50.0

59661 100.0

X Coefficient(s) 0.001917

Std Err of Coef. 0.000287

Element:

ppm = 2.1 (ppm)

Filename:\SAIC\MS14P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS14P2 Mn
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

Constant -47.7022

Std Err of Y Est 14.98909

R Squared 0.955065

No. of Observations 3

Degrees of Freedom 1

51985 0.0

129656 50.0

164904 100.0

X Coefficient(s) 0.000845

Std Err of Coef. 0.000183

Element:

ppm = 5.0 (ppm)

Filename:\SAIC\MS14P2

DILUTIONS

#1	#2	#3	#4
3amp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS14P2 Nd
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

95 0.0
1297 50.0
3845 100.0

Constant 5.365681
Std Err of Y Est 14.34853
R Squared 0.958823
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.025568
Std Err of Coef. 0.005298

Element:

ppm = -0.6 (ppm)

Filename:\SAIC\MS14P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS14P2 Ni

DATE 03/30/96

Dil. Fct. 105

Regression Output:

Counts ppb

Constant -6.57928

Std Err of Y Est 1.713699

R Squared 0.999412

1738 0.0

No. of Observations 3

13123 50.0

Degrees of Freedom 1

25506 100.0

X Coefficient(s) 0.004204

Std Err of Coef. 0.000101

Element:

ppm = 0.7 (ppm)

Filename:\SAIC\MS14P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS14P2 Sb
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

166 0.0
7459 50.0
16447 100.0

Constant 0.892976
Std Err of Y Est 4.242578
R Squared 0.996400
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.006120
Std Err of Coef. 0.000367

Element:

ppm = -0.1 (ppm)

Filename:\SAIC\MS14P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS14P2 Se
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts	ppb
130	0.0
1119	50.0
4071	100.0

Constant	8.439981
Std Err of Y Est	19.54268
R Squared	0.923616
No. of Observations	3
Degrees of Freedom	1
X Coefficient(s)	0.023436

Element:

Std Err of Coef. 0.006739

ppm = -0.9 (ppm)

Filename:\SAIC\MS14P2

DILUTIONS

#1	#2	#3	#4
Wgt. (g)	Algt. from #1(g)	Algt. from #2(g)	Algt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

STANDARD ADDITIONS

SAMPLE: MS14P2 Sm
Dil. Fct. 105

DATE 03/30/96

Regression Output:

Counts ppb

11 0.0
714 50.0
1928 100.0

Constant 4.936234
Std Err of Y Est 10.75573
R Squared 0.976862
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.050957
Std Err of Coef. 0.007842

Element:

ppm = -0.5 (ppm)

Filename:\SAIC\MS14P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5006	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.96404	3.5	1	1

Tot. Dil Fct. 104.9

Integrals for : WASH BLANK 1

Peak	Li	7	Be	9	B	10	B	11	Na	23	Mg	24	Mg	25	Ca	44
CPS		23		23		7015		28404		107514		14856		1603		4543
Peak	Sc	45	V	51	Cr	52	Mn	55	Fe	57	Co	59	Ni	60	Cu	63
CPS		1024		104		1695		2870		7935		335		572		8983
Peak	Zn	64	Cu	65	Zn	66	Ga	69	As	75	Se	82	Rb	85	Sr	88
CPS		1574		4543		821		289		17		4960		590		144
Peak	Ag	107	Ag	109	Cd	111	Cd	114	In	115	Sb	121	Sb	123	Cs	133
CPS		40		81		63		17		40		34		57		55
Peak	Ba	138	Nd	146	Sm	147	Tl	203	Tl	205	Pb	208	Ba	209	U	238
CPS		34		0		5		17		5		98		5		0

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Integrals for : WS14 +0.1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	8647	1422	1732	8091	12322314	410705	67668	63934
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	5226	11908	12641	51985	44469	1226	1738	2672
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	10848	8186	6352	156886	333	196	8365	130
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	2017	3018	1964	3119	172	1006	41	595
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	242989	166	83	136	8287	95	11	17
Peak	Tl 205	Pb 208	Bi 209	U 238				
CPS	47	303	631	827				

Integrals for : MS14 +5G 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	40771	17821	37622	160557	12188159	491983	79511	68892
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	5006	70756	63591	129856	50723	56821	13123	24140
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	21816	20624	11509	204949	1345	4470	12867	1119
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	2845	6097	12271	12105	20784	21749	4768	12926
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	239241	7459	6030	12673	13069	1297	714	8817
Peak	Tl 205	Pb 208	Bi 209	U 238				
CPS	21578	5441	14124	17342				

Integrals for : MS14 +100.1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	59861	19799	56191	260366	11208119	501812	82865	91752
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	4810	114537	98074	164904	48902	105881	25506	44862
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	33572	24331	17442	230054	3512	9115	13701	4071
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	3387	3434	36232	30011	42009	40756	9305	23054
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	221444	16447	11503	33161	31312	3845	1928	16221
Peak	Tl 205	Pb 208	Bi 209	U 238				
s	36621	12772	25918	27446				

STANDARD ADDITIONS

SAMPLE: MS15P2 Ag
Dil. Fct. 104

DATE 03/31/96

Regression Output:

Counts ppb

Constant 6.160874
Std Err of Y Est 12.72685
R Squared 0.967605

440 0.0
25963 50.0
75169 100.0

No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001294
Std Err of Coef. 0.000236

Element:

ppm = -0.6 (ppm)

Filename:\SAIC\MS15P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.504	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.82700	3.5	1	1

Tot. Dil Fct. 104.4

STANDARD ADDITIONS

SAMPLE: MS15P2 Cd
Dil. Fct. 104

DATE 03/31/96

Regression Output:

Counts ppb

2548 0.0
12670 50.0
29079 100.0

Constant -4.63179
Std Err of Y Est 9.584892
R Squared 0.981625
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.003699
Std Err of Coef. 0.000506

Element:

ppm = 0.5 (ppm)

Filename:\SAIC\MS15P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.504	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.76190	3.5	1	1

Tot. Dil Fct. 104.2

STANDARD ADDITIONS

SAMPLE: MS15P2 Co

DATE 03/31/96

Dil. Fct. 104

Regression Output:

Counts ppb

Constant 3.014783

Std Err of Y Est 8.172914

R Squared 0.986640

No. of Observations 3

Degrees of Freedom 1

----- 2119 0.0

88398 50.0

218234 100.0

X Coefficient(s) 0.000456

Std Err of Coef. 0.000053

Element:

ppm = -0.3 (ppm)

Filename:\SAIC\MS15P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Algt. from #1(g)	Algt. from #2(g)	Algt. from #3(g)
0.504	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.76190	3.5	1	1

Tot. Dil Fct. 104.2

STANDARD ADDITIONS

SAMPLE: MS15P2 Cu
Dil. Fct. 104

DATE 03/31/96

Regression Output:

Counts ppb

2113 0.0
38604 50.0
109540 100.0

Constant 4.921816
Std Err of Y Est 12.87123
R Squared 0.966866
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000900
Std Err of Coef. 0.000166

Element:

ppm = -0.5 (ppm)

Filename:\SAIC\MS15P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.504	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.76190	3.5	1	1

Tot. Dil Fct.

104.2

STANDARD ADDITIONS

SAMPLE: MS15P2 Fe
Dil. Fct. 89

DATE 03/31/96

Regression Output:

ABS Units	ppm	Constant	-1.66928
-----	-----	Std Err of Y Est	0.190478
27	0.0	R Squared	0.998875
103	4.3	No. of Observations	3
162	8.0	Degrees of Freedom	1
-----	-----	X Coefficient(s)	0.059314
		Std Err of Coef.	0.001990

Element:

ppm = 149.0 (ppm)

Filename:\SAIC\MS15P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.504	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	6	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.76190	3	1	1

Tot. Dil Fct. 89.3

STANDARD ADDITIONS

SAMPLE: MS15P2 Li
Dil. Fct. 104

DATE 03/31/96

Regression Output:

Counts ppb

29989 0.0
167599 50.0
377749 100.0

Constant -4.35854
Std Err of Y Est 8.454647
R Squared 0.985703
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000283
Std Err of Coef. 0.000034

Element:

ppm = 0.5 (ppm)

Filename:\SAIC\MS15P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.504	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
29.76190	3.5	1	1

Tot. Dil Fct. 104.2

STANDARD ADDITIONS

SAMPLE: MS15P2 Mn
Dil. Fct. 104

DATE 03/31/96

Regression Output:

Counts ppb

96657 0.0

203529 50.0

238228 100.0

Element:

Constant -66.6643

Std Err of Y Est 19.96565

R Squared 0.920274

No. of Observations 3

Degrees of Freedom 1

X Coefficient(s) 0.000650

Std Err of Coef. 0.000191

ppm = 6.9 (ppm)

Filename:\SAIC\MS15P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.504	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1

Dil Fct. #1
29.76190

Dil. Fct. #2
3.5

Dil. Fct. #3
1

Dil. Fct. #4
1

Tot. Dil Fct.

104.2

STANDARD ADDITIONS

SAMPLE: MS15P2 Nd
Dil. Fct. 104

DATE 03/31/96

Regression Output:

Counts ppb

Constant -4.19860

Std Err of Y Est 2.904226

R Squared 0.998313

No. of Observations 3

Degrees of Freedom 1

357 0.0

6518 50.0

11860 100.0

X Coefficient(s) 0.008678

Std Err of Coef. 0.000356

Element:

ppm = 0.4 (ppm)

Filename:\SAIC\MS15P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.504	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.76190	3.5	1	1

Tot. Dil Fct. 104.2

STANDARD ADDITIONS

SAMPLE: MS15P2 Ni
Dil. Fct. 104

DATE 03/31/96

Regression Output:

Counts ppb

1434 0.0
19325 50.0
50479 100.0

Constant 2.735389
Std Err of Y Est 10.90791
R Squared 0.976203
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001990
Std Err of Coef. 0.000310

Element:

ppm = -0.3 (ppm)

Filename:\SAIC\MS15P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)

0.504	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.76190	3.5	1	1

Tot. Dil Fct. 104.2

STANDARD ADDITIONS

SAMPLE: MS15P2 Sb

DATE 03/31/96

Dil. Fct. 104

Regression Output:

Counts ppb

Constant 4.032070

Std Err of Y Est 8.703550

R Squared 0.984849

No. of Observations 3

Degrees of Freedom 1

77 0.0

11908 50.0

30213 100.0

X Coefficient(s) 0.003268

Std Err of Coef. 0.000405

Element:

ppm = -0.4 (ppm)

Filename:\SAIC\MS15P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.504	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.76190	3.5	1	1

Tot. Dil Fct. 104.2

STANDARD ADDITIONS

SAMPLE: MS15P2 Se

DATE 03/31/96

Dil. Fct. 104

Regression Output:

Counts ppb

Constant -18.3893

Std Err of Y Est 6.072311

R Squared 0.992625

No. of Observations 3

Degrees of Freedom 1

255 0.0

1148 50.0

1809 100.0

X Coefficient(s) 0.063875

Std Err of Coef. 0.005505

Element:

ppm = 1.9 (ppm)

Filename:\SAIC\MS15P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.504	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.76190	3.5	1	1

Tot. Dil Fct. 104.2

STANDARD ADDITIONS

SAMPLE: MS15P2 Sm
Dil. Fct. 104

DATE 03/31/96

Regression Output:

Counts ppb

89 0.0
4155 50.0
7459 100.0

Constant -2.74286
Std Err of Y Est 4.213465
R Squared 0.996449
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.013520
Std Err of Coef. 0.000807

Element:

ppm = 0.3 (ppm)

Filename:\SAIC\MS15P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.504	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct.#1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct.#4
29.76190	3.5	1	1

Tot. Dil Fct. 104.2

Integrals for : PRO BLANK 16

Peak	Li 7	Be 9	B 11	C 12	N 14	O 16	Mg 24	Mg 25	Ca 44
CPS	103	103	107194	1453650	236705	24796	3196	50425	
Peak	Al 27	Si 28	Cl 35	Mn 55	Fe 57	Co 59	Ni 60	Cu 63	
CPS	6000	640	6000	14477	7293	535	1071	5631	
Peak	Zn 64	Du 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77	
CPS	25591	2333	14428	2768	17	113	11356	35	
Peak	Se 78	Se 82	Rb 85	Sr 86	Ag 107	Ag 108	Ag 109	Ag 110	
CPS	2512	5054	655	115	65	65	150	1595	
Peak	In 115	Sb 121	Sb 123	Sb 125	Sb 127	Nd 146	Sm 147	Tl 203	
CPS	100548	33	33	33	3887	0	17	5	
Peak	Th 232	Po 208	Bi 209	U 238					
CPS	27	100	11	5					

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Integrals for : MS15 +0.1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	29989	3119	333668	1579789	9592075	568670	84675	128917
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	13140	24164	11735	96657	79739	2119	1434	2113
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	7358	28080	4905	203473	898	684	25206	255
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 114	Cd 114
CPS	4595	5744	1417	5977	440	416	369	2548
Peak	In 115	Sb 121	Sb 123	Sb 125	Ba 138	Nd 146	Sm 147	Tl 203
CPS	577027	77	154	386	47033	357	89	83
Peak	Tl 205	Pb 203	Bi 209	U 238				
CPS	113	750	47	1607				

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Integrals for MS15 +50.1

Peak CPS	Li 7 187693	Be 9 38930	B 11 306957	C 12 1049403	N 14 3018845	O 16 643559	F 19 103347	Ne 20 202136
Peak CPS	Si 28 19848	S 32 124000	Cl 35 103112	Ar 40 203559	K 39 70443	Ca 40 88398	Ni 60 19325	Cu 63 38604
Peak CPS	Zn 64 25385	Ge 76 50234	Br 80 14951	Ga 69 312446	Se 74 1678	As 75 6262	Se 76 15130	Se 77 1148
Peak CPS	Se 78 3297	Se 82 5334	Rb 85 35805	Sr 88 49536	Ag 107 25963	Ag 109 26255	Cd 111 5345	Cd 114 12670
Peak CPS	In 115 328088	Sb 121 11908	Sb 123 8704	Cs 133 27984	Ba 138 93329	Nd 146 6518	Sm 147 4155	Tl 203 11443
Peak S	Tl 205 28259	Pb 208 13927	Bi 209 20147	U 238 24564				

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Integrals for : MS15 -100 :

Peak	Li 7	Se 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	377749	88763	283803	1204443	5958763	587837	100324	170413
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	20088	242544	191528	238228	64364	218234	50479	109540
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	45965	73341	24932	362192	1761	10863	15798	1809
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	5887	6560	59737	90471	75169	68763	12217	29079
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	484822	30213	22393	33057	156901	11860	7459	29731
Peak	Tl 205	Pb 208	Bi 209	U 238				
S	65674	35049	50018	57145				

STANDARD ADDITIONS

SAMPLE: MS16P2 Ag
Dil. Fct. 104

DATE 03/31/96

Regression Output:

Counts ppb

154 0.0
9788 50.0
18746 100.0

Constant -1.41165
Std Err of Y Est 1.484052
R Squared 0.999559
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.005376
Std Err of Coef. 0.000112

Element:

Filename:\SAIC\MS16P2 ppm = 0.1 (ppm)

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5029	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.82700	3.5	1	1

Tot. Dil Fct. 104.4

STANDARD ADDITIONS

SAMPLE: MS16P2 B
Dil. Fct. 103

DATE 03/31/96

Regression Output:

ounts ppb

0.0
50.0
100.0

Constant -2.65784
Std Err of Y Est 3.785679
R Squared 0.997133
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.001321
Std Err of Coef. 0.000070

Element:

ppm = 0.3 (ppm)

Filename:\SAIC\MS1P12

5.5 ppm best Est

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5081	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.52174	3.5	1	1

tot. Dil Fct. 103.3

STANDARD ADDITIONS

SAMPLE: MS16P2 Cd

DATE 03/31/96

Dil. Fct. 104

Regression Output:

Counts ppb

Constant -10.6855

Std Err of Y Est 1.914189

R Squared 0.999267

No. of Observations 3

Degrees of Freedom 1

982 0.0

6149 50.0

10853 100.0

X Coefficient(s) 0.010123

Std Err of Coef. 0.000274

Element:

ppm = 1.1 (ppm)

Filename:\SAIC\MS16P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5029	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.82700	3.5	1	1

Tot. Dil Fct. 104.4

STANDARD ADDITIONS

SAMPLE: MS16P2 Co
Dil. Fct. 104

DATE 03/31/96

Regression Output:

Counts ppb

1577 0.0
56589 50.0

Constant -2.12136
Std Err of Y Est 1.612639
R Squared 0.999479
No. of Observations 3
Degrees of Freedom 1

107419 100.0

X Coefficient(s) 0.000944
Std Err of Coef. 0.000021

Element:

ppm = 0.2 (ppm)

Filename:\SAIC\MS16P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5029	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.82700	3.5	1	1

Tot. Dil Fct. 104.4

STANDARD ADDITIONS

SAMPLE: MS16P2 Cu
Dil. Fct. 104

DATE 03/31/96

Regression Output:

Counts ppb

2595 0.0
25903 50.0
45402 100.0

Constant -7.39363
Std Err of Y Est 3.627840
R Squared 0.997367
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.002329
Std Err of Coef. 0.000119

Element:

ppm = 0.8 (ppm)

Filename:\SAIC\MS16P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5029	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.82700	3.5	1	1

Tot. Dil Fct. 104.4

STANDARD ADDITIONS

SAMPLE: MS16P2 Li

DATE 03/31/96

Dil. Fct. 104

Regression Output:

Constant

-12.7531

Counts	ppb	Std Err of Y Est	4.335824
-----	-----	R Squared	0.996240
4810	0.0	No. of Observations	3
28533	50.0	Degrees of Freedom	1
47693	100.0		
-----	-----	X Coefficient(s)	0.002323
		Std Err of Coef.	0.000142

Element:

ppm = 1.3 (ppm)

Filename:\SAIC\MS16P2

DILUTIONS

#1	#2	#3	#4
Wamp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5029	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.82700	3.5	1	1

Tot. Dil Fct. 104.4

STANDARD ADDITIONS

SAMPLE: MS16P2 Fe

DATE 03/31/96

Dil. Fct. 89

Regression Output:

ABS Units ppm

Constant -3.07948

Std Err of Y Est 0.128944

R Squared 0.999087

No. of Observations 3

Degrees of Freedom 1

48 0.0

103 3.3

143 6.0

X Coefficient(s) 0.063236

Std Err of Coef. 0.001911

Element:

ppm = 275.6 (ppm)

Filename:\SAIC\MS16P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5029	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)

15	6	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.82700	3	1	1

Tot. Dil Fct. 89.5

STANDARD ADDITIONS

SAMPLE: MS16P2 Mn
Dil. Fct. 104

DATE 03/31/96

Regression Output:

Counts ppb

99702 0.0
159062 50.0
227457 100.0

Constant -76.6517
Std Err of Y Est 2.884781
R Squared 0.998335
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.000781
Std Err of Coef. 0.000031

Element:

ppm = 8.0 (ppm)

Filename:\SAIC\MS16P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5029	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.82700	3.5	1	1

Tot. Dil Fct. 104.4

STANDARD ADDITIONS

SAMPLE: MS16P2 Nd

DATE 03/31/96

Dil. Fct. 104

Regression Output:

Counts ppb

Constant 12.65488

Std Err of Y Est 25.78362

R Squared 0.867040

No. of Observations 3

Degrees of Freedom 1

327 0.0

1529 50.0

7799 100.0

X Coefficient(s) 0.011603

Std Err of Coef. 0.004544

Element:

ppm = -1.3 (ppm)

Filename:\SAIC\MS16P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5029	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.82700	3.5	1	1

Tot. Dil Fct. 104.4

STANDARD ADDITIONS

SAMPLE: MS16P2 Ni
Dil. Fct. 104

DATE 03/31/96

Regression Output:

Counts ppb

1244 0.0
13844 50.0
24736 100.0

Constant -6.40778
Std Err of Y Est 2.965582
R Squared 0.998241
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.004249
Std Err of Coef. 0.000178

Element:

ppm = 0.7 (ppm)

Filename:\SAIC\MS16P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5029	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.82700	3.5	1	1

Tot. Dil Fct. 104.4

STANDARD ADDITIONS

SAMPLE: MS16P2 Sb
 Dil. Fct. 104

DATE 03/31/96

Regression Output:

Counts ppb

 125 0.0
 5530 50.0
 11431 100.0

Constant -0.34213
 Std Err of Y Est 1.790431
 R Squared 0.999358
 No. of Observations 3
 Degrees of Freedom 1

X Coefficient(s) 0.008839
 Std Err of Coef. 0.000223

Element:

ppm = 0.0 (ppm)

Filename:\SAIC\MS16P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5029	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.82700	3.5	1	1

Tot. Dil Fct. 104.4

STANDARD ADDITIONS

SAMPLE: MS16P2 Se
Dil. Fct. 104

DATE 03/31/96

Regression Output:

Counts ppb

172 0.0
1279 50.0
7775 100.0

Constant 15.35319
Std Err of Y Est 26.78092
R Squared 0.856556
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.011266
Std Err of Coef. 0.004610

Element:

ppm = -1.6 (ppm)

Filename:\SAIC\MS16P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Algt. from #1(g)	Algt. from #2(g)	Algt. from #3(g)
0.5029	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)

15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.82700	3.5	1	1

Tot. Dil Fct. 104.4

STANDARD ADDITIONS

SAMPLE: MS16P2 Sm
Dil. Fct. 104

DATE 03/31/96

Regression Output:

Counts ppb

101 0.0
982 50.0
4655 100.0

Constant 12.67661
Std Err of Y Est 23.59468
R Squared 0.888658
No. of Observations 3
Degrees of Freedom 1

X Coefficient(s) 0.019513
Std Err of Coef. 0.006907

Element:

ppm = -1.3 (ppm)

Filename:\SAIC\MS16P2

DILUTIONS

#1	#2	#3	#4
Samp. (g)	Alqt. from #1(g)	Alqt. from #2(g)	Alqt. from #3(g)
0.5029	2	1	1
Diluted to:(g)	Diluted to:(g)	Diluted to:(g)	Diluted to:(g)
15	7	1	1
Dil Fct. #1	Dil. Fct. #2	Dil. Fct. #3	Dil. Fct. #4
29.82700	3.5	1	1

Tot. Dil Fct. 104.4

Integrals for : PRO BLANK 18 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	422	6102	560170	2438113	225478	19350	2488	88406
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	16381	1138	9335	30674	19837	2089	1214	7983
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	32605	3607	18992	2131	11	261	19534	220
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	4054	7031	1458	708	196	410	434	1660
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	319050	172	178	273	6108	5	29	23
Peak	Tl 205	Pb 208	Bi 209	U 238				
	41	672	196	5				

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Integrals for : MS16 +0.1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	4810	488	56892	279976	10663253	472080	131195	131965
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	12825	14356	6781	99702	58362	1577	1244	2595
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	7316	1589	4649	148150	505	523	11807	172
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	2535	3405	2833	9275	154	130	172	982
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	114842	125	59	226	22542	327	101	23
Peak	Tl 205	Pb 208	Bi 209	U 238				
CPS	35	273	5	261				

Integrals for : MS16 +50.1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	28533	3681	46737	233596	10916059	470091	127478	131218
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	13671	74662	57199	159082	58623	56589	13844	25903
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	15625	12372	8680	176396	1690	4101	14403	1279
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	3369	3553	13022	15458	9788	9359	2547	6149
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Hf 146	Sm 147	Tl 203
CPS	128072	5530	4464	10020	22321	1529	982	2476
Peak	Tl 205	Pb 208	Bi 209	U 238				
CPS	5786	2982	5399	5506				

Integrals for : WS16 +100 1

Peak	Li 7	Be 9	B 10	B 11	Na 23	Mg 24	Mg 25	Ca 44
CPS	47693	18480	45268	226563	10617342	566277	151210	169240
Peak	Sc 45	V 51	Cr 52	Mn 55	Fe 57	Co 59	Ni 60	Cu 63
CPS	13313	129689	104418	227453	61743	107419	24736	45402
Peak	Zn 64	Cu 65	Zn 66	Ga 69	Se 74	As 75	Se 76	Se 77
CPS	21994	25661	11622	239753	8733	11413	24615	7775
Peak	Se 78	Se 82	Rb 85	Sr 88	Ag 107	Ag 109	Cd 111	Cd 114
CPS	4214	3661	47095	64694	18746	18728	4512	10853
Peak	In 115	Sb 121	Sb 123	Cs 133	Ba 138	Nd 146	Sm 147	Tl 203
CPS	137867	11431	8632	56285	58396	7799	4655	4464
Peak	Tl 205	Pb 208	Bi 209	U 238				
	11027	8519	11652	9383				