

Sample Information File Untitled

Description : PbFNP NONPOTABLE LEAD
 Batch ID :
 Volume Units :
 Weight Units :
 Analyst :
 Sample Volume : 1.000
 Nominal Weight : 1.000000

AS Sample ID Loc	Sample Sample Weight Units	User Dilution	Remarks
1 QCS			
5 DIG BLANK			
6 23406			
7 23406DUP			
8 23938			
9 24027			
10 24028			
11 24030			
12 24180			
13 24182			
14 24183			
15 24256			
16 24257			
17 24282			
18 24283			
19 24505			
20 24506			
21 24507			
22 24508			
23 24509			
24 24510			
25 24511			
26 24512			
27 24512DUP			
28 24516			
29 24590			
30 23353			

batch 14908

DATE ANALYZED 10/15/01
 TIME ANALYZED 12:22PM
 ANALYST INITIALS LD
 REVIEWED BY M

Nx DEP

Sample Information File Untitled

Description : PbFNP NONPOTABLE LEAD
 Batch ID :
 Volume Units :
 Weight Units :
 Analyst :
 Sample Volume : 1.000
 Nominal Weight : 1.000000

AS Sample ID Loc	Sample Sample Weight Units	User Dilution	Remarks
1 QCS			
5 DIG BLANK			
6 23406NR			
7 23406DUP			
8 23938NR			
9 24027NR			
10 24028			
11 24030			
12 24180NR			
13 24182			
14 24183NR			
15 24256			
16 24257			
17 24282			
18 24283			
19 24505			
20 24506			
21 24507			
22 24508			
23 24509			
24 24510			
25 24511			
26 24512			
27 24512DUP			
28 24516			
29 24590			
30 24391			
31 24392			
32 23353NR			

Method Name: PbHGA Element: Pb
 Method Description: Pbhga SM3113 B

Date: 10/15/2001
 Technique: Furnace Calibration Equation: Calc. Intercept: Linear
 Wavelength: 283.3 nm Slit Width: 0.70 nm
 Lamp Current: 10 Energy: 58
 Sample Info File: Untitled Results Data Set:

Element: Pb Seq. No.: 1 AS Loc.: 36 Date: 10/15/2001
 Sample ID: Calib Blank
 µL dispensed: 10 from 36, 5 from 37, 20 from 36

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.005	0.005	0.008	0.003	0.004	12:22:31	No

Auto-zero performed.

Element: Pb Seq. No.: 2 AS Loc.: 38 Date: 10/15/2001
 Sample ID: S5
 µL dispensed: 25 from 36, 5 from 37, 5 from 38

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.038	0.043	0.069	0.012	0.020	12:25:05	No

Standard number 1 applied. [5.0]
 Correlation Coefficient: 1.0000 Slope: 0.0076

Element: Pb Seq. No.: 3 AS Loc.: 38 Date: 10/15/2001
 Sample ID: S10
 µL dispensed: 20 from 36, 5 from 37, 10 from 38

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.067	0.072	0.123	0.022	0.035	12:27:45	No

Standard number 2 applied. [10.0]
 Correlation Coefficient: 0.9971 Slope: 0.0067

Element: Pb Seq. No.: 4 AS Loc.: 38 Date: 10/15/2001
 Sample ID: S15
 µL dispensed: 15 from 36, 5 from 37, 15 from 38

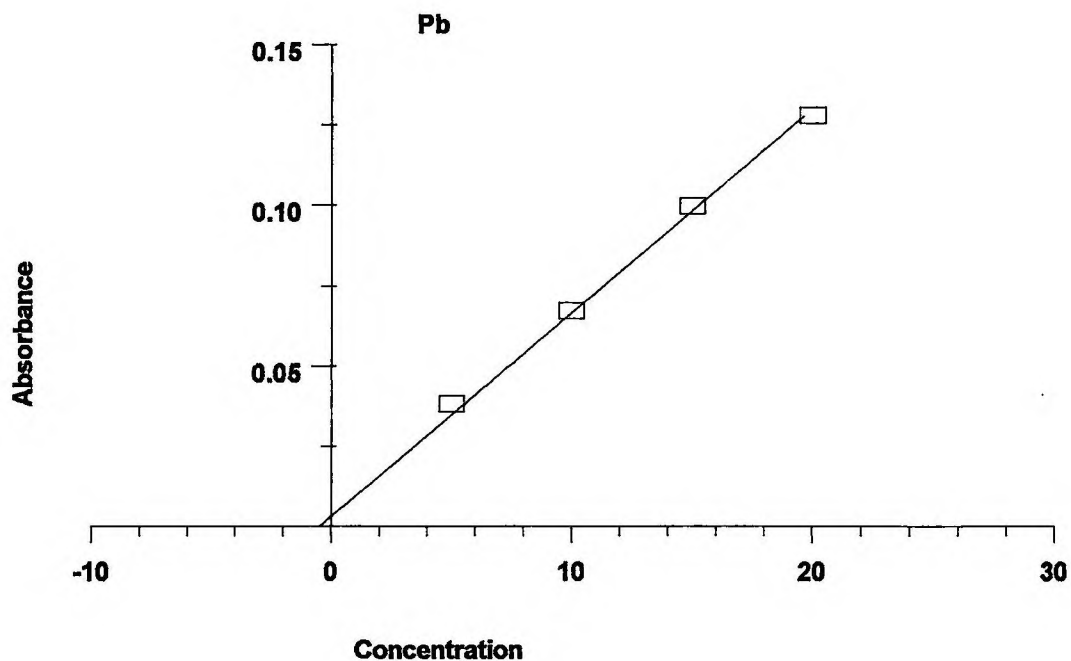
Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.100	0.105	0.158	0.031	0.047	12:30:24	No

Standard number 3 applied. [15.0]
 Correlation Coefficient: 0.9986 Slope: 0.0066

Element: Pb Seq. No.: 5 AS Loc.: 38 Date: 10/15/2001
 Sample ID: S20
 µL dispensed: 10 from 36, 5 from 37, 20 from 38

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.128	0.133	0.198	0.041	0.062	12:33:04	No

The calibration curve may not be linear.
 Standard number 4 applied. [20.0]
 Correlation Coefficient: 0.9987 Slope: 0.0063



Calibration data for Pb

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.000	----	-0.4885	----	----
S5	0.038	5.0	5.506	----	----
S10	0.067	10.0	10.11	----	----
S15	0.100	15.0	15.22	----	----
S20	0.128	20.0	19.66	----	----
Correlation Coefficient: 0.99866 Slope: 0.00634 Intercept: 0.003					

=====

Element: Pb Seq. No.: 6 AS Loc.: 1 Date: 10/15/2001
Sample ID: QCS
µL dispensed: 10 from 36, 5 from 37, 20 from 1

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.879	4.879	0.034	0.039	0.065	0.013	0.019	12:39:42	No

QC value within specified limits.

=====

Element: Pb Seq. No.: 7 AS Loc.: 5 Date: 10/15/2001
Sample ID: DIG BLANK
µL dispensed: 10 from 36, 5 from 37, 20 from 5

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3198	-0.3198	0.001	0.006	0.012	0.004	0.005	12:42:15	No

=====

Element: Pb Seq. No.: 8 AS Loc.: 6 Date: 10/15/2001
Sample ID: 23406
µL dispensed: 10 from 36, 5 from 37, 20 from 6

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0996	0.0996	0.004	0.009	0.011	0.019	0.011	12:44:52	No

=====

Element: Pb Seq. No.: 9 AS Loc.: 6 Date: 10/15/2001
Sample ID: 23406
µL dispensed: 5 from 37, 10 from 38, 20 from 6

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.271	4.271	0.030	0.035	0.033	0.027	0.012	12:47:27	No

Recovery is 41.7% (outside of specified limits)

=====

Element: Pb Seq. No.: 10 AS Loc.: 6 Date: 10/15/2001
Sample ID: 23406
µL dispensed: 25 from 36, 5 from 37, 5 from 6

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-1.938	-0.4846	0.000	0.005	0.007	0.004	0.005	12:50:03	No

=====

Element: Pb Seq. No.: 11 AS Loc.: 6 Date: 10/15/2001
Sample ID: 23406
µL dispensed: 15 from 36, 5 from 37, 10 from 38, 5 from 6

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.54	5.886	0.040	0.045	0.042	0.015	0.014	12:52:48	No

Recovery is 58.9% (outside of specified limits)

Element: Pb Seq. No.: 12 AS Loc.: 7 Date: 10/15/2001

Sample ID: 23406DUP

 μ L dispensed: 10 from 36, 5 from 37, 20 from 7

Repl #	SampleConc μ g/L	StndConc μ g/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.0461	-0.0461	0.003	0.008	0.008	0.021	0.012	12:55:26	No

Element: Pb Seq. No.: 13 AS Loc.: 8 Date: 10/15/2001

Sample ID: 23938

 μ L dispensed: 10 from 36, 5 from 37, 20 from 8

Repl #	SampleConc μ g/L	StndConc μ g/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2219	-0.2219	0.002	0.007	0.008	0.037	0.024	12:58:05	No

Element: Pb Seq. No.: 14 AS Loc.: 8 Date: 10/15/2001

Sample ID: 23938

 μ L dispensed: 5 from 37, 10 from 38, 20 from 8

Repl #	SampleConc μ g/L	StndConc μ g/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.612	3.612	0.026	0.031	0.033	0.044	0.023	13:00:39	No

Recovery is 36.1% (outside of specified limits)

=====
Method Name: PbHGA Element: Pb
Method Description: Pbhga SM3113 B

Date: 10/15/2001
Technique: Furnace Calibration Equation: Calc. Intercept: Linear
Wavelength: 283.3 nm Slit Width: 0.70 nm
Lamp Current: 10 Energy: 58
Sample Info File: Untitled Results Data Set:

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Element: Pb Seq. No.: 15 AS Loc.: 30 Date: 10/15/2001
Sample ID: 23353
µL dispensed: 10 from 36, 5 from 37, 20 from 30

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.550	1.550	0.013	0.018	0.021	0.040	0.017	13:06:50	No

Element: Pb Seq. No.: 15 AS Loc.: 30 Date: 10/15/2001

Sample ID: 23353

µL dispensed: 10 from 36, 5 from 37, 20 from 30

Repl	SampleConc	StndConc	BlncCorr	Peak	Peak	Bkgnd	Bkgnd	Time	Peak
#	µg/L	µg/L	Signal	Area	Height	Area	Height		Stored
1	0.9620	0.9620	0.009	0.014	0.016	0.037	0.018	13:09:47	No

Element: Pb Seq. No.: 16 AS Loc.: 30 Date: 10/15/2001

Sample ID: 23353

µL dispensed: 5 from 37, 10 from 38, 20 from 30

Repl	SampleConc	StndConc	BlncCorr	Peak	Peak	Bkgnd	Bkgnd	Time	Peak
#	µg/L	µg/L	Signal	Area	Height	Area	Height		Stored
1	5.609	5.609	0.039	0.044	0.043	0.042	0.016	13:12:28	No

Recovery is 46.5% (outside of specified limits)

=====

Element: Pb Seq. No.: 17 AS Loc.: 1 Date: 10/15/2001

Sample ID: QCS

µL dispensed: 10 from 36, 5 from 37, 20 from 1

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.278	5.278	0.037	0.041	0.074	0.012	0.022	13:17:43	No

QC value within specified limits.

=====

Element: Pb Seq. No.: 18 AS Loc.: 30 Date: 10/15/2001

Sample ID: 23353

µL dispensed: 10 from 36, 5 from 37, 20 from 30

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.144	1.144	0.010	0.015	0.014	0.040	0.020	13:20:44	No

Element: Pb Seq. No.: 19 AS Loc.: 9 Date: 10/15/2001

Sample ID: 24027

µL dispensed: 10 from 36, 5 from 37, 20 from 9

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5910	0.5910	0.007	0.012	0.019	0.034	0.013	13:26:03	No

Element: Pb Seq. No.: 20 AS Loc.: 9 Date: 10/15/2001

Sample ID: 24027

µL dispensed: 5 from 37, 10 from 38, 20 from 9

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	6.192	6.192	0.042	0.047	0.051	0.047	0.021	13:28:38	No

Recovery is 56.0% (outside of specified limits)

Element: Pb Seq. No.: 21 AS Loc.: 9 Date: 10/15/2001

Sample ID: 24027

µL dispensed: 25 from 36, 5 from 37, 5 from 9

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6098	0.1524	0.004	0.009	0.010	0.006	0.005	13:31:20	No

Element: Pb Seq. No.: 22 AS Loc.: 9 Date: 10/15/2001

Sample ID: 24027

µL dispensed: 15 from 36, 5 from 37, 10 from 38, 5 from 9

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	32.97	8.242	0.055	0.060	0.055	0.022	0.019	13:34:06	No

Recovery is 80.9% (outside of specified limits)

Element: Pb Seq. No.: 23 AS Loc.: 10 Date: 10/15/2001

Sample ID: 24028

µL dispensed: 10 from 36, 5 from 37, 20 from 10

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.14	23.14	0.150	0.155	0.132	0.083	0.044	13:36:49	No

Sample absorbance is greater than that of the highest standard.

Sample beyond calibration range. It will be diluted and reanalyzed.

Element: Pb Seq. No.: 24 AS Loc.: 10 Date: 10/15/2001

Sample ID: 24028

µL dispensed: 25 from 36, 5 from 37, 5 from 10

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	32.78	8.196	0.055	0.060	0.056	0.024	0.019	13:39:30	No

Element: Pb Seq. No.: 25 AS Loc.: 10 Date: 10/15/2001
 Sample ID: 24028
 µL dispensed: 15 from 36, 5 from 37, 10 from 38, 5 from 10

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	67.31	16.83	0.110	0.115	0.097	0.038	0.029	13:42:16	No

Recovery is 86.3%

Element: Pb Seq. No.: 26 AS Loc.: 11 Date: 10/15/2001
 Sample ID: 24030
 µL dispensed: 10 from 36, 5 from 37, 20 from 11

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.14	20.14	0.131	0.136	0.117	0.074	0.037	13:44:59	No

Sample beyond calibration range. It will be diluted and reanalyzed.

Element: Pb Seq. No.: 27 AS Loc.: 11 Date: 10/15/2001
 Sample ID: 24030
 µL dispensed: 25 from 36, 5 from 37, 5 from 11

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	28.08	7.020	0.048	0.053	0.057	0.022	0.019	13:47:42	No

Element: Pb Seq. No.: 28 AS Loc.: 11 Date: 10/15/2001
 Sample ID: 24030
 µL dispensed: 15 from 36, 5 from 37, 10 from 38, 5 from 11

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	62.42	15.61	0.102	0.107	0.110	0.040	0.036	13:50:29	No

Recovery is 85.8%

Element: Pb Seq. No.: 29 AS Loc.: 1 Date: 10/15/2001
 Sample ID: QCS
 µL dispensed: 10 from 36, 5 from 37, 20 from 1

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.463	4.463	0.031	0.036	0.071	0.012	0.021	13:53:11	No

QC out of limits. QC will be repeated based on Retry setting.

Element: Pb Seq. No.: 30 AS Loc.: 1 Date: 10/15/2001
 Sample ID: QCS
 µL dispensed: 10 from 36, 5 from 37, 20 from 1

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.096	5.096	0.035	0.040	0.081	0.014	0.024	13:55:47	No

QC value within specified limits.

=====

Element: Pb Seq. No.: 31 AS Loc.: 12 Date: 10/15/2001
Sample ID: 24180
µL dispensed: 10 from 36, 5 from 37, 20 from 12

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.8067	-0.8067	-0.002	0.003	0.006	0.053	0.032	13:58:26	No

=====

Element: Pb Seq. No.: 32 AS Loc.: 12 Date: 10/15/2001
Sample ID: 24180
µL dispensed: 5 from 37, 10 from 38, 20 from 12

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.706	4.706	0.033	0.038	0.039	0.067	0.035	14:01:05	No

Recovery is 47.1% (outside of specified limits)

=====

Element: Pb Seq. No.: 33 AS Loc.: 12 Date: 10/15/2001
Sample ID: 24180
µL dispensed: 25 from 36, 5 from 37, 5 from 12

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-3.720	-0.9301	-0.003	0.002	0.006	0.024	0.014	14:03:47	No

=====

Element: Pb Seq. No.: 34 AS Loc.: 12 Date: 10/15/2001
Sample ID: 24180
µL dispensed: 15 from 36, 5 from 37, 10 from 38, 5 from 12

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	31.03	7.757	0.052	0.057	0.045	0.037	0.016	14:06:35	No

Recovery is 77.6% (outside of specified limits)

=====

Element: Pb Seq. No.: 35 AS Loc.: 13 Date: 10/15/2001
Sample ID: 24182
µL dispensed: 10 from 36, 5 from 37, 20 from 13

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	13.35	13.35	0.088	0.093	0.083	0.058	0.026	14:09:18	No

=====

Element: Pb Seq. No.: 36 AS Loc.: 13 Date: 10/15/2001
Sample ID: 24182
µL dispensed: 5 from 37, 10 from 38, 20 from 13

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	18.04	18.04	0.118	0.122	0.137	0.063	0.047	14:12:00	No

Recovery is 46.9% (outside of specified limits)

Element: Pb Seq. No.: 37 AS Loc.: 13 Date: 10/15/2001

Sample ID: 24182

µL dispensed: 25 from 36, 5 from 37, 5 from 13

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	16.14	4.034	0.029	0.034	0.042	0.015	0.015	14:14:42	No

Element: Pb Seq. No.: 38 AS Loc.: 13 Date: 10/15/2001

Sample ID: 24182

µL dispensed: 15 from 36, 5 from 37, 10 from 38, 5 from 13

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	51.40	12.85	0.085	0.090	0.112	0.032	0.040	14:17:29	No

Recovery is 88.2%

Element: Pb Seq. No.: 39 AS Loc.: 14 Date: 10/15/2001

Sample ID: 24183

µL dispensed: 10 from 36, 5 from 37, 20 from 14

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.438	1.438	0.012	0.017	0.022	0.029	0.014	14:20:13	No

Element: Pb Seq. No.: 40 AS Loc.: 14 Date: 10/15/2001

Sample ID: 24183

µL dispensed: 5 from 37, 10 from 38, 20 from 14

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.431	5.431	0.038	0.042	0.084	0.036	0.028	14:22:55	No

Recovery is 39.9% (outside of specified limits)

Element: Pb Seq. No.: 41 AS Loc.: 14 Date: 10/15/2001

Sample ID: 24183

µL dispensed: 25 from 36, 5 from 37, 5 from 14

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.8869	-0.2217	0.002	0.007	0.015	0.008	0.007	14:25:37	No

Element: Pb Seq. No.: 42 AS Loc.: 14 Date: 10/15/2001

Sample ID: 24183

µL dispensed: 15 from 36, 5 from 37, 10 from 38, 5 from 14

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	31.30	7.824	0.053	0.058	0.089	0.023	0.027	14:28:24	No

Recovery is 78.2% (outside of specified limits)

Element: Pb Seq. No.: 43 AS Loc.: 1 Date: 10/15/2001

Sample ID: QCS

µL dispensed: 10 from 36, 5 from 37, 20 from 1

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.908	4.908	0.034	0.039	0.079	0.011	0.025	14:31:03	No

QC value within specified limits.

Sample Information File CALIB.SIF

Description : PbFNP STD ADDITIONS
 Batch ID :
 Volume Units :
 Weight Units :
 Analyst :
 Sample Volume : 1.000
 Nominal Weight : 1.000000

AS Sample ID Loc	Sample Sample Weight Units	User Dilution	Remarks
1 QCS			
6 23406			
8 23938			
9 24027			
12 24180			
14 24183			
15 24256			
16 24257			
17 24282			
18 24283			
19 24505			
20 24506			
21 24507			
22 24508			
23 24509			
24 24510			
25 24511			
26 24512			
28 24516			
29 24590			
30 23353			

batch 14909

Method Name: Pb STD ADD Element: Pb
 Method Description: Pbhga SM3113 B

Date: 10/15/2001
 Technique: Furnace Calibration Equation: Calc. Intercept: Meth. of Add.
 Wavelength: 283.3 nm Slit Width: 0.70 nm
 Lamp Current: 10 Energy: 58
 Sample Info File: CALIB.SIF Results Data Set:

Element: Pb Seq. No.: 44 AS Loc.: 36 Date: 10/15/2001
 Sample ID: Calib Blank
 µL dispensed: 20 from 36, 5 from 37, 20 from 36

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.002	0.007	0.009	0.002	0.004	14:50:18	No

Auto-zero performed.

Element: Pb Seq. No.: 45 AS Loc.: 6 Date: 10/15/2001
 Sample ID: 23406
 µL dispensed: 20 from 36, 5 from 37, 20 from 6

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.001	0.008	0.012	0.020	0.010	14:52:52	No

Element: Pb Seq. No.: 46 AS Loc.: 38 Date: 10/15/2001
 Sample ID: S10
 µL dispensed: 15 from 36, 5 from 37, 5 from 38, 20 from 6

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.024	0.031	0.043	0.027	0.018	14:55:38	No

Addition number 1 applied. [10.0]
 Correlation Coefficient: 1.0000 Slope: 0.0022

Element: Pb Seq. No.: 47 AS Loc.: 38 Date: 10/15/2001
 Sample ID: S20
 µL dispensed: 10 from 36, 5 from 37, 10 from 38, 20 from 6

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.044	0.051	0.073	0.033	0.026	14:58:23	No

Addition number 2 applied. [20.0]
 Correlation Coefficient: 0.9998 Slope: 0.0022

Element: Pb Seq. No.: 48 AS Loc.: 38 Date: 10/15/2001
 Sample ID: S30
 µL dispensed: 5 from 36, 5 from 37, 15 from 38, 20 from 6

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.058	0.065	0.087	0.040	0.029	15:01:08	No

Addition number 3 applied. [30.0]
 Correlation Coefficient: 0.9948 Slope: 0.0019

Element: Pb Seq. No.: 49 AS Loc.: 38 Date: 10/15/2001
 Sample ID: S40
 µL dispensed: 5 from 37, 20 from 38, 20 from 6

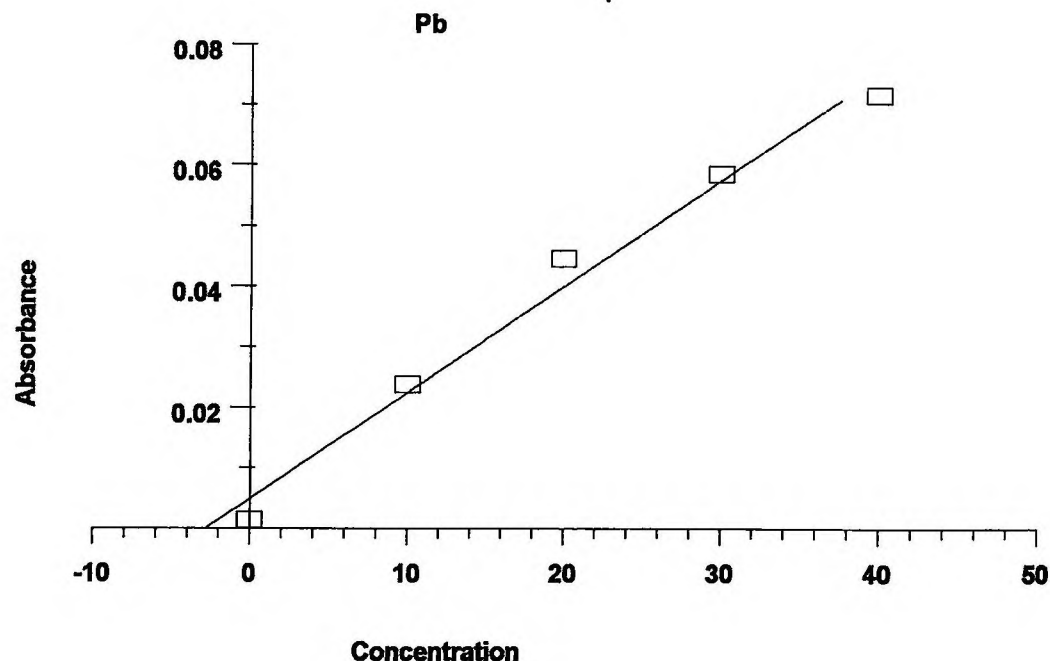
Repl #	Sample Conc µg/L	Std Conc µg/L	Blk Corr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.071	0.078	0.119	0.044	0.042	15:03:44	No

The calibration curve may not be linear.

Addition number 4 applied. [40.0]

Correlation Coefficient: 0.9923

Slope: 0.0017



Calibration data for Pb

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.000	----	-0.7893	----	----
S10	0.024	10.0	12.80	----	----
S20	0.044	20.0	24.65	----	----
S30	0.058	30.0	32.61	----	----
S40	0.071	40.0	40.10	----	----
Correlation Coefficient: 0.99227 Slope: 0.00175 Intercept: 0.005					

[Pb] Sample Concentration 2.820 µg/L

$$[Pb] = 1.89 \mu g/L$$

$$r = 0.9977$$

The calibration curve has been edited.

Element: Pb Seq. No.: 50 AS Loc.: 38 Date: 10/15/2001
 Sample ID: S30
 µL dispensed: 5 from 36, 5 from 37, 15 from 38, 20 from 6

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.057	0.065	0.093	0.039	0.033	15:06:55	No

Addition number 3 applied. [30.0]

Correlation Coefficient: 0.9935

Slope: 0.0019

[Pb] Sample Concentration 1.802 µg/L

The calibration curve has been edited.

Element: Pb Seq. No.: 51 AS Loc.: 38 Date: 10/15/2001
 Sample ID: S10
 µL dispensed: 15 from 36, 5 from 37, 5 from 38, 20 from 6

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.023	0.030	0.048	0.029	0.019	15:23:28	No

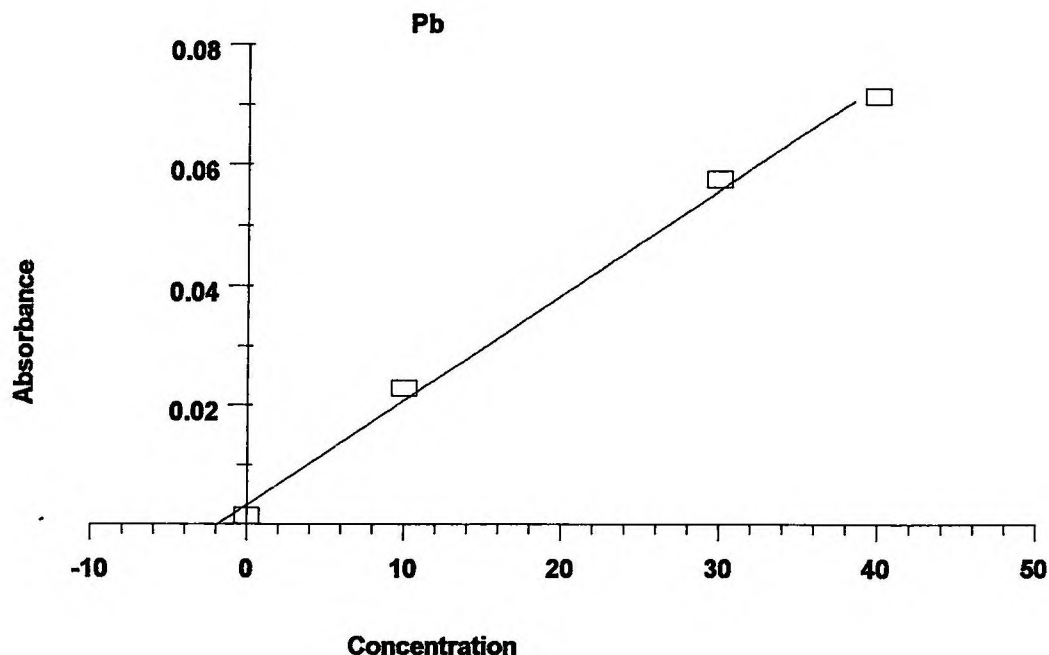
Addition number 1 applied. [10.0]

Correlation Coefficient: 0.9941

Slope: 0.0019

[Pb] Sample Concentration 1.591 µg/L

The calibration curve has been edited.



=====

Element: Pb Seq. No.: 52 AS Loc.: 36 Date: 10/15/2001

Sample ID: Calib Blank

µL dispensed: 20 from 36, 5 from 37, 20 from 36

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			-0.001	0.006	0.012	0.003	0.005	15:28:12	No

Auto-zero performed.

=====

Element: Pb Seq. No.: 53 AS Loc.: 30 Date: 10/15/2001

Sample ID: 23353

µL dispensed: 20 from 36, 5 from 37, 20 from 30

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.004	0.010	0.020	0.035	0.013	15:30:51	No

=====

Element: Pb Seq. No.: 54 AS Loc.: 38 Date: 10/15/2001

Sample ID: S10

µL dispensed: 15 from 36, 5 from 37, 5 from 38, 20 from 30

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.031	0.037	0.047	0.041	0.018	15:33:39	No

Addition number 1 applied. [10.0]

Correlation Coefficient: 1.0000

Slope: 0.0027

=====

Element: Pb Seq. No.: 55 AS Loc.: 38 Date: 10/15/2001

Sample ID: S20

µL dispensed: 10 from 36, 5 from 37, 10 from 38, 20 from 30

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.052	0.058	0.072	0.047	0.024	15:36:27	No

Addition number 2 applied. [20.0]

Correlation Coefficient: 0.9980

Slope: 0.0024

=====

Element: Pb Seq. No.: 56 AS Loc.: 38 Date: 10/15/2001

Sample ID: S30

µL dispensed: 5 from 36, 5 from 37, 15 from 38, 20 from 30

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.068	0.074	0.097	0.054	0.035	15:39:14	No

Addition number 3 applied. [30.0]

Correlation Coefficient: 0.9940

Slope: 0.0021

=====

Element: Pb Seq. No.: 57 AS Loc.: 38 Date: 10/15/2001

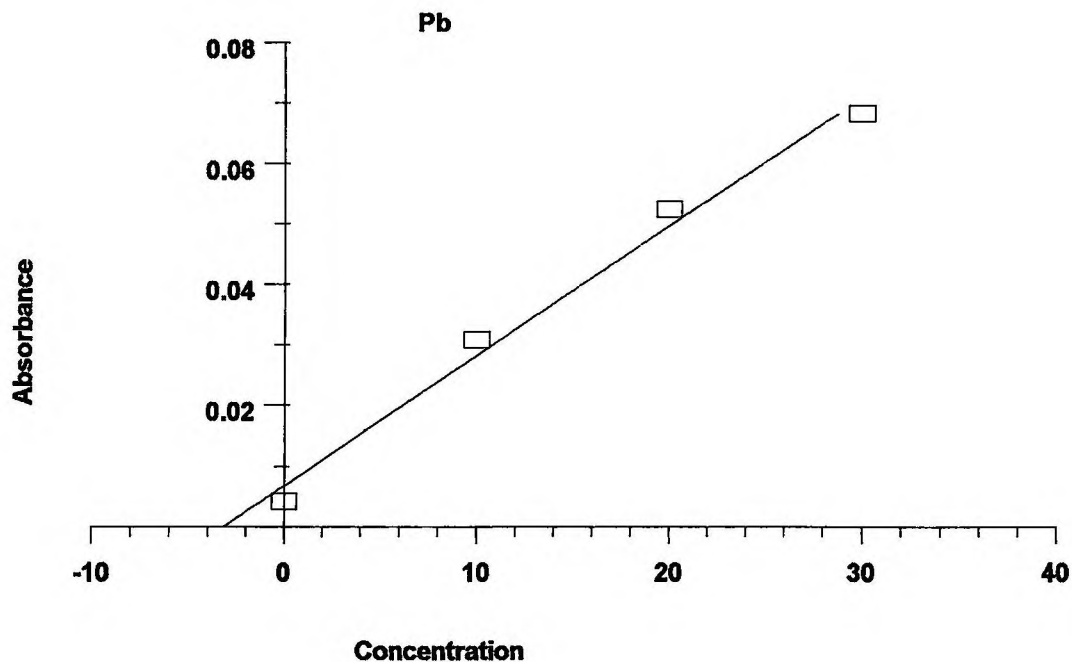
Sample ID: S40

µL dispensed: 5 from 37, 20 from 38, 20 from 30

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.050	0.055	0.107	0.068	0.045	15:41:56	No

No calibration because standard abs. and conc. values are not in the same order.

Addition number 4 not applied. [-----]



Calibration data for Pb

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.000	----	-1.973	----	----
S10	0.031	10.0	12.44	----	----
S20	0.052	20.0	22.45	----	----
S30	0.068	30.0	30.00	----	----
Correlation Coefficient: 0.99405 Slope: 0.00213 Intercept: 0.007					

[Pb] Sample Concentration 3.196 µg/L

$$C = 3.10 \mu\text{g/L}$$

$$r = 0.9980$$

The calibration curve has been edited.

=====

Element: Pb Seq. No.: 58 AS Loc.: 38 Date: 10/15/2001
 Sample ID: S40
 µL dispensed: 5 from 37, 20 from 38, 20 from 30

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.090	0.096	0.140	0.064	0.048	15:59:20	No

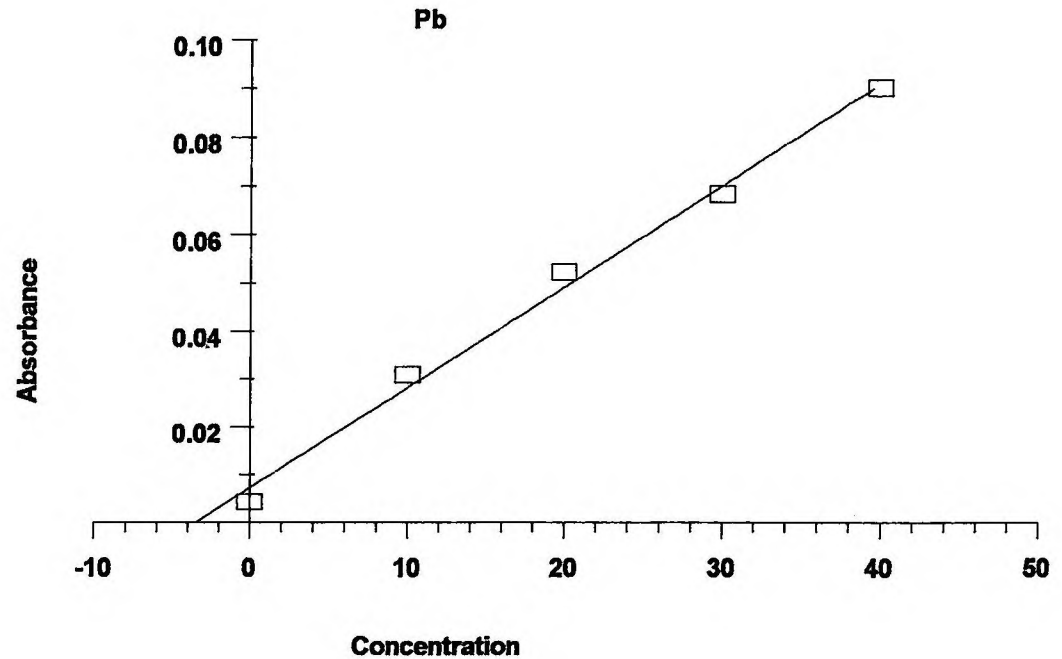
The calibration curve may not be linear.

Addition number 4 applied. [40.0]

Correlation Coefficient: 0.9967

Slope: 0.0021

[Pb] Sample Concentration 3.471 µg/L

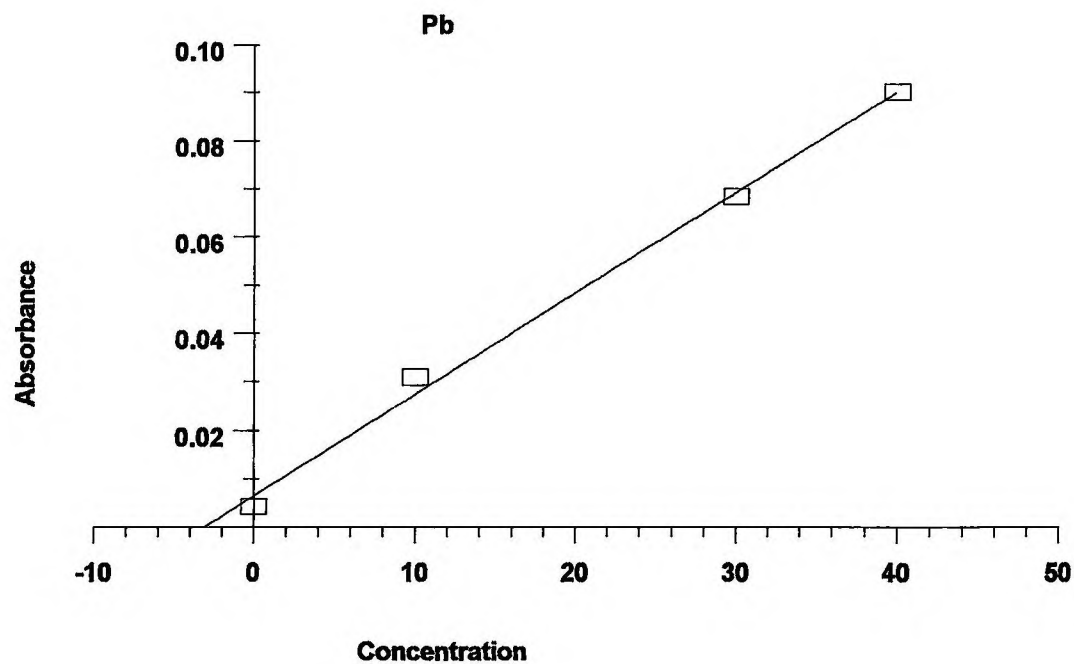


Calibration data for Pb

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.000	----	-2.014	----	----
S10	0.031	10.0	12.70	----	----
S20	0.052	20.0	22.92	----	----
S30	0.068	30.0	30.62	----	----
S40	0.090	40.0	41.04	----	----

Correlation Coefficient: 0.99667 Slope: 0.00209 Intercept: 0.007

The calibration curve has been edited.



Element: Pb Seq. No.: 59 AS Loc.: 36 Date: 10/15/2001

Sample ID: Calib Blank

µL dispensed: 20 from 36, 5 from 37, 20 from 36

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			-0.002	0.004	0.012	0.003	0.005	16:26:57	No

Auto-zero performed.

Element: Pb Seq. No.: 60 AS Loc.: 8 Date: 10/15/2001

Sample ID: 23938

µL dispensed: 20 from 36, 5 from 37, 20 from 8

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.001	0.005	0.008	0.039	0.019	16:29:33	No

Element: Pb Seq. No.: 61 AS Loc.: 38 Date: 10/15/2001

Sample ID: S10

µL dispensed: 15 from 36, 5 from 37, 5 from 38, 20 from 8

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.026	0.030	0.036	0.045	0.019	16:32:18	No

Addition number 1 applied. [10.0]

Correlation Coefficient: 1.0000

Slope: 0.0026

Element: Pb Seq. No.: 62 AS Loc.: 38 Date: 10/15/2001

Sample ID: S20

µL dispensed: 10 from 36, 5 from 37, 10 from 38, 20 from 8

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.046	0.050	0.060	0.052	0.021	16:35:03	No

Addition number 2 applied. [20.0]

Correlation Coefficient: 0.9967

Slope: 0.0022

Element: Pb Seq. No.: 63 AS Loc.: 38 Date: 10/15/2001

Sample ID: S30

µL dispensed: 5 from 36, 5 from 37, 15 from 38, 20 from 8

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.039	0.043	0.069	0.073	0.032	16:37:49	No

No calibration because standard abs. and conc. values are not in the same order.

Addition number 3 not applied. [-----]

Element: Pb Seq. No.: 64 AS Loc.: 38 Date: 10/15/2001

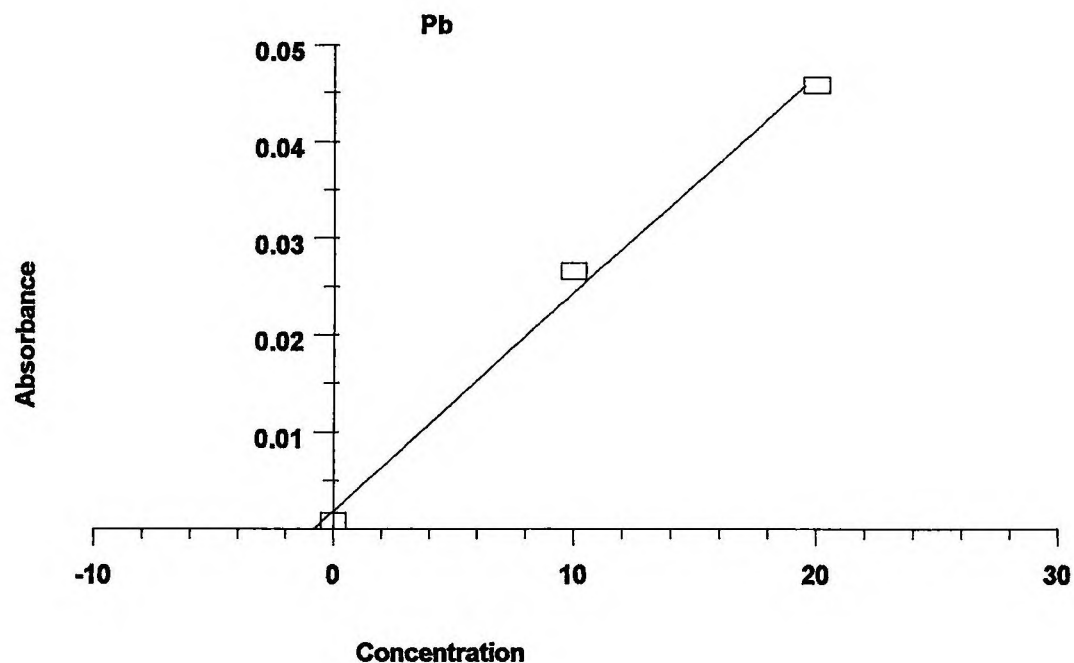
Sample ID: S40

µL dispensed: 5 from 37, 20 from 38, 20 from 8

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.037	0.041	0.061	0.081	0.039	16:40:26	No

No calibration because standard abs. and conc. values are not in the same order.

Addition number 4 not applied. [-----]



Calibration data for Pb

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.000	----	-0.3605	----	----
S10	0.026	10.0	11.42	----	----
S20	0.046	20.0	20.00	----	----
Correlation Coefficient: 0.99667 Slope: 0.00225 Intercept: 0.002					

[Pb] Sample Concentration 0.8327 µg/L

The calibration curve has been edited.

Element: Pb Seq. No.: 65 AS Loc.: 38 Date: 10/15/2001
 Sample ID: S30
 µL dispensed: 5 from 36, 5 from 37, 15 from 38, 20 from 8

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			-0.209	-0.206	1.377	0.149	0.042	17:18:56	No

Background changing during BOC.

No calibration because standard abs. and conc. values are not in the same order.

Addition number 3 not applied. [-----]

[Pb] Sample Concentration 0.8327 µg/L

The calibration curve has been edited.

Element: Pb Seq. No.: 66 AS Loc.: 38 Date: 10/15/2001
 Sample ID: S30
 µL dispensed: 5 from 36, 5 from 37, 15 from 38, 20 from 8

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.073	0.077	0.102	0.075	0.034	17:43:05	No

Addition number 3 applied. [30.0]

Correlation Coefficient: 0.9981

Slope: 0.0024

[Pb] Sample Concentration 0.4794 µg/L

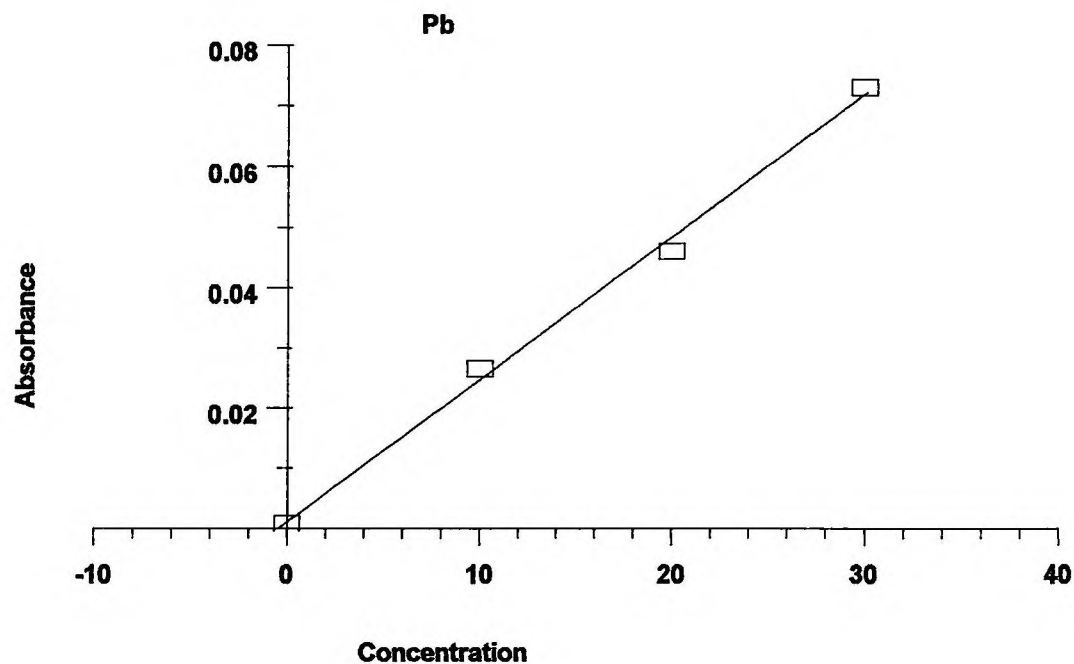
Element: Pb Seq. No.: 67 AS Loc.: 38 Date: 10/15/2001
 Sample ID: S40
 µL dispensed: 5 from 37, 20 from 38, 20 from 8

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.037	0.041	0.063	0.082	0.036	17:45:42	No

No calibration because standard abs. and conc. values are not in the same order.

Addition number 4 not applied. [-----]

[Pb] Sample Concentration 0.4794 µg/L



Calibration data for Pb

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.000	----	-0.3435	----	----
S10	0.026	10.0	10.88	----	----
S20	0.046	20.0	19.06	----	----
S30	0.073	30.0	30.61	----	----
Correlation Coefficient: 0.99805 Slope: 0.00236 Intercept: 0.001					
