

1/24/02 ^{FT}

BK	31637	798	
55TD QCS	31638	799	5
IPC+CB	31639	800	I
LFB+LRB	31640	801	6
31458+Lab Dup+spk	IPC+CB	802	316
31502	LFB+LRB	803	316
31504	349+Dup+spk	IPC+CB	31
31549	541+run 1→5 Ca+Na#		31
31550	550 1→10 Na#		31
31551	546		31
31585	553		31
31586	554		31
31587	617 1→2		316
31588	792		316
IPC+CB	793		I
31589+Lab Dup+spk	794		31
31590	IPC+CB		31
31591	686+Lab Dup+spk		AE
31631	795		
31632	796		
797			

Reviewed by
CB 3/15/02

Standardization Rpt.

01/24/02 09:44:49 AM

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Method: IECW Standard: STD1-Blank

Run Time: 01/24/02 09:43:06

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	1.266	3.608	.3670	.2495	.1505	.1860	3.730
SDev	.003	.006	.0173	.0019	.0025	.0000	.015
%RSD	.2697	.1753	4.719	.7675	1.672	.0000	.3891

#1	1.270	3.616	.3460	.2480	.1540	.1860	3.750
#2	1.268	3.610	.3600	.2480	.1500	.1860	3.724
#3	1.266	3.602	.3840	.2500	.1500	.1860	3.716
#4	1.262	3.604	.3780	.2520	.1480	.1860	3.730

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.2535	2.296	.8910	.5795	.0005	5.247	1.200
SDev	.0085	.007	.0058	.0070	.0030	.016	.007
%RSD	3.370	.3259	.6480	1.208	600.0	.3025	.6236

#1	.2660	2.298	.8980	.5880	.0040	5.262	1.210
#2	.2520	2.286	.8900	.5820	-.0020	5.244	1.198
#3	.2480	2.296	.8840	.5760	-.0020	5.226	1.200
#4	.2480	2.304	.8920	.5720	.0020	5.256	1.192

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0925	.1085	1.865	.4655	.6480	.1225	.1090
SDev	.0025	.0030	.011	.0092	.0156	.0010	.0048
%RSD	2.721	2.765	.5834	1.965	2.404	.8163	4.368

#1	.0960	.1100	1.858	.4680	.6700	.1220	.1060
#2	.0920	.1120	1.856	.4720	.6480	.1240	.1120
#3	.0920	.1060	1.880	.4700	.6360	.1220	.1040
#4	.0900	.1060	1.864	.4520	.6380	.1220	.1140

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	1.235	.1260	.6320	.1420
SDev	.005	.0085	.0028	.0028
%RSD	.4257	6.734	.4475	1.992

#1	1.240	.1380	.6360	.1460
#2	1.232	.1260	.6320	.1400
#3	1.230	.1200	.6300	.1420
#4	1.240	.1200	.6300	.1400

Standardization Rpt.

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Method: IECW Standard: STD6

Run Time: 01/24/02 09:47:59



Elem	Ag3280
Avge	40.68
SDev	.10
%RSD	.2451

#1	40.81
#2	40.60
#3	40.71
#4	40.59

Standardization Rpt.

01/24/02 09:51:46 AM

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Method: IECW Standard: STD3

Run Time: 01/24/02 09:50:03

Elem	Al3082	Be3130	Fe2599	Mo2020	Na5889	Ni2316	Sb2068
Avge	21.09	205.3	12.17	4.518	12.15	14.06	1.174
SDev	.02	.6	.03	.050	.05	.04	.004
%RSD	.0829	.2870	.2661	1.115	.4093	.3120	.3680

#1	21.09	205.5	12.16	4.506	12.15	14.01	1.170
#2	21.09	205.2	12.19	4.468	12.17	14.03	1.172
#3	21.06	204.6	12.13	4.510	12.07	14.09	1.180
#4	21.11	206.0	12.20	4.588	12.18	14.10	1.174

Elem	Tl1908
Avge	.8230
SDev	.0133
%RSD	1.618

#1	.8240
#2	.8040
#3	.8340
#4	.8300

Standardization Rpt.

01/24/02 09:54:01 AM

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Method: IECW Standard: STD4

Run Time: 01/24/02 09:52:39

Elem	As1936	B_2496	Cr2677	Se1960	Si2881
Avge	3.961	33.40	42.23	.7160	5.020
SDev	.020	.08	.04	.0098	.005
%RSD	.5058	.2423	.0912	1.368	.0976
#1	3.954	33.44	42.28	.7280	5.022
#2	3.956	33.49	42.25	.7080	5.016
#3	3.990	33.30	42.21	.7080	5.026
#4	3.944	33.36	42.20	.7200	5.016

Standardization Rpt.

01/24/02 09:56:39 AM

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Method: IECW Standard: STD2

Run Time: 01/24/02 09:55:17

Elem	Ba4934	Ca3179	Cd2288	Co2286	Cu3247	K_7664	Mg2790
Avge	28.16	84.38	31.85	110.6	24.87	10.82	6.973
SDev	.02	.12	.07	.2	.03	.01	.008
%RSD	.0847	.1420	.2066	.1952	.1145	.1371	.1206

#1	28.17	84.35	31.89	110.4	24.88	10.81	6.968
#2	28.16	84.51	31.81	110.9	24.86	10.81	6.964
#3	28.18	84.42	31.92	110.7	24.91	10.84	6.982
#4	28.12	84.23	31.78	110.5	24.84	10.82	6.978

Elem	Mn2576	Pb2203	Zn2138
Avge	25.77	4.770	23.77
SDev	.04	.026	.04
%RSD	.1732	.5359	.1553

#1	25.75	4.784	23.76
#2	25.84	4.796	23.74
#3	25.77	4.762	23.82
#4	25.73	4.738	23.75

Standardization Rpt.

01/24/02 09:58:48 AM

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Method: IECW Standard: STD5

Run Time: 01/24/02 09:57:26

Elem	V_2924
Avge	29.09
SDev	.07
%RSD	.2252

#1	29.19
#2	29.04
#3	29.07
#4	29.08

Analysis Report

01/24/02 10:29:04 AM

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Method: IECW Sample Name: ipc
 Run Time: 01/24/02 10:24:51
 Comment:
 Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.4892	1.037	.0365	.9685	.9969	.9784	1.019
SDev	.0009	.006	.0523	.0051	.0012	.0019	.005
%RSD	.1895	.5553	143.2	.5224	.1240	.1907	.4510

#1	.4887	1.038	.0671	.9701	.9951	.9783	1.015
#2	.4882	1.029	.0172	.9701	.9972	.9783	1.019
#3	.4902	1.042	<.0000	.9725	.9972	.9808	1.026
#4	.4897	1.039	.0894	.9611	.9980	.9763	1.017

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	1.001	1.003	.9734	.9645	1.009	.7877	1.003
SDev	.003	.003	.0030	.0028	.003	.1565	.009
%RSD	.3327	.3168	.3094	.2915	.3322	19.86	.8647

#1	1.004	1.001	.9700	.9608	1.013	.5704	1.004
#2	1.002	1.003	.9749	.9641	1.010	.7877	.9934
#3	.9960	1.008	.9768	.9658	1.008	.9325	1.000
#4	1.001	1.002	.9720	.9674	1.005	.8601	1.014

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.9952	1.018	1.012	1.005	1.020	.9077	.0851
SDev	.0029	.020	.012	.004	.021	.0324	.1090
%RSD	.2884	2.001	1.173	.3780	2.034	3.565	128.1

#1	.9915	1.033	1.022	1.007	1.026	.8983	.1016
#2	.9954	1.028	1.012	1.006	.9967	.8797	.1016
#3	.9985	1.024	.9951	1.009	1.011	.9544	.2001
#4	.9954	.9880	1.018	1.0000	1.045	.8983	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	1.038	.9658	.9857	.9978
SDev	.024	.1003	.0024	.0024
%RSD	2.276	10.39	.2437	.2400

#1	1.027	1.053	.9826	.9961
#2	1.011	1.053	.9868	1.001
#3	1.065	.8790	.9882	.9978
#4	1.049	.8789	.9854	.9961

Analysis Report

01/24/02 10:31:07 AM

page 1

Method: IECW Sample Name: cb

Operator: it

Run Time: 01/24/02 10:29:18

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0057	<.0000	<.0000	<.0000	.0004
SDev	.0008	.0035	.0425	.0010	.0000	.0001	.0013
%RSD	46.66	53.86	751.9	24.44	.0588	4.444	345.0

#1	<.0000	<.0000	.0376	<.0000	<.0000	<.0000	<.0000
#2	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000
#3	<.0000	<.0000	.0433	<.0000	<.0000	<.0000	.0000
#4	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000	.0022

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.0000	<.0000	<.0000	<.0000	<.0000	<.0000	.0009
SDev	.0016	.0020	.0015	.0008	.0008	.2391	.0100
%RSD	1818000.	136.4	137.4	25.53	12.54	120.0	1146.

#1	.0022	.0000	.0002	<.0000	<.0000	.0634	.0017
#2	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000	.0017
#3	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000
#4	<.0000	.0004	<.0000	<.0000	<.0000	<.0000	.0121

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	SD2068	Se1960
Avge	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000
SDev	.0006	.0022	.0200	.0042	.0108	.0187	.1119
%RSD	163.5	4.260	260.6	76.55	63.41	80.04	681.9

#1	<.0000	<.0000	.0000	<.0000	<.0000	<.0000	<.0000
#2	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000
#3	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000	<.0000
#4	.0004	<.0000	.0096	.0007	<.0000	.0047	.1397

Elem	Si2881	Ti1908	V_2924	Zn2138
Avge	.0134	.0724	<.0000	<.0000
SDev	.0267	.1057	.0007	.0004
%RSD	198.6	146.0	42.57	66.83

#1	<.0000	.1303	<.0000	<.0000
#2	.0296	<.0000	<.0000	<.0000
#3	.0135	.0145	<.0000	.0000
#4	.0349	.1882	<.0000	<.0000

Analysis Report

01/24/02 10:35:50 AM

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Method: IECW Sample Name: lfb

Run Time: 01/24/02 10:31:42

Comment:

Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.0154	.2456	.3174	.2508	.2553	.0493	.0092
SDev	.0023	.0182	.0513	.0016	.0009	.0001	.0035
%RSD	14.91	7.422	16.16	.6339	.3616	.1573	37.99
#1	.0121	.2188	.2997	.2515	.2564	.0492	.0052
#2	.0166	.2594	.3936	.2485	.2549	.0493	.0123
#3	.0156	.2537	.2826	.2509	.2557	.0494	.0074
#4	.0171	.2503	.2938	.2521	.2542	.0493	.0118
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.1029	.1044	.2507	.2545	.2589	<.0000	<.0000
SDev	.0009	.0024	.0019	.0008	.0013	.4688	.0191
%RSD	.9237	2.326	.7603	.3095	.5081	38.89	87.27
#1	.1037	.1013	.2479	.2539	.2589	<.0000	<.0000
#2	.1037	.1048	.2513	.2539	.2605	<.0000	<.0000
#3	.1024	.1043	.2522	.2547	.2589	<.0000	<.0000
#4	.1018	.1072	.2513	.2556	.2573	<.0000	.0025
Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.2595	.0907	.0072	.2649	.2452	.2184	.3111
SDev	.0004	.0066	.0175	.0085	.0097	.0444	.1747
%RSD	.1737	7.323	244.4	3.224	3.974	20.31	56.15
#1	.2599	.0830	<.0000	.2598	.2501	.1532	.3030
#2	.2591	.0874	.0038	.2728	.2500	.2464	.5329
#3	.2599	.0963	.0057	.2714	.2500	.2464	.1056
#4	.2591	.0963	.0308	.2555	.2305	.2277	.3028
Elem	Si2881	Ti1908	V_2924	Zn2138			
Avge	.1377	.1736	.0993	.2626			
SDev	.0612	.0992	.0010	.0016			
%RSD	44.47	57.11	1.062	.6101			
#1	.0464	.0430	.0984	.2615			
#2	.1608	.2172	.1005	.2615			
#3	.1663	.2753	.0984	.2649			
#4	.1772	.1591	.0998	.2623			

Analysis Report

01/24/02 10:38:08 AM

page 1

Method: IECW Sample Name: lrb
 Run Time: 01/24/02 10:36:09
 Comment:
 Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B12496	Ba4934	Be3130	Ca3179
Avge	.0000	<.0000	.0709	<.0000	.0000	.0000	<.0000
SDev	.0017	.0040	.0604	.0006	.0000	.0001	.0004
%RSD	30e6	65.37	85.20	38.72	56.41	200.0	36.73

#1	.0014	<.0000	.0306	<.0000	.0000	.0000	<.0000
#2	<.0000	<.0000	.0084	<.0000	.0000	.0000	<.0000
#3	.0014	<.0000	.1306	<.0000	.0000	.0001	<.0000
#4	<.0000	<.0000	.1141	<.0000	.0000	.0000	<.0000

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.0003	.0000	<.0000	.0000	<.0000	.1380	<.0000
SDev	.0006	.0011	.0016	.0005	.0043	.2981	.0094
%RSD	191.1	229600.	698.9	158100.	176.7	216.0	83.33

#1	<.0000	<.0000	<.0000	.0004	.0032	.5705	<.0000
#2	.0011	<.0000	<.0000	<.0000	<.0000	.0920	<.0000
#3	.0005	.0012	<.0000	.0004	<.0000	<.0000	.0026
#4	<.0000	.0003	.0019	<.0000	<.0000	<.0000	<.0000

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	<.0000	<.0000	<.0000	.0072	<.0000	.0000	.0904
SDev	.0004	.0077	.0205	.0041	.0069	.0319	.1123
%RSD	100.2	46.20	284.3	56.54	94.51	155800.	124.2

#1	<.0000	<.0000	.0212	.0072	<.0000	.0047	.0740
#2	<.0000	<.0000	<.0000	.0014	<.0000	<.0000	.1397
#3	<.0000	<.0000	<.0000	.0101	<.0000	<.0000	.2054
#4	<.0000	<.0000	<.0000	.0101	<.0000	.0420	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.0109	<.0000	<.0000	.0004
SDev	.0258	.0731	.0007	.0005
%RSD	235.9	83.92	127.9	115.2

#1	.0464	<.0000	<.0000	.0000
#2	.0137	<.0000	.0000	.0008
#3	<.0000	<.0000	.0000	.0008
#4	<.0000	<.0000	<.0000	.0000

Analysis Report

01/24/02 10:57:21 AM

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Method: IECW Sample Name: 31458

Run Time: 01/24/02 10:55:32

Comment:

Operator: it

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0285	.0017	.0128	<.0000	6.007
SDev	.0009	.0063	.0503	.0012	.0003	.0001	.026
%RSD	27.60	34.33	176.8	71.64	2.769	15.38	.4343

#1	<.0000	<.0000	.0465	.0004	.0130	<.0000	6.021
#2	<.0000	<.0000	.0909	.0034	.0130	<.0000	6.032
#3	<.0000	<.0000	<.0000	.0016	.0130	<.0000	6.006
#4	<.0000	<.0000	<.0000	.0016	.0123	<.0000	5.972

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0304	<.0000	1.300
SDev	.0011	.0010	.0014	.0011	.0021	.1933	.019
%RSD	283.9	32.34	49.12	30.88	6.824	28.78	1.476

#1	<.0000	<.0000	<.0000	<.0000	.0329	<.0000	1.291
#2	<.0000	<.0000	<.0000	<.0000	.0280	<.0000	1.319
#3	.0010	<.0000	<.0000	<.0000	.0313	<.0000	1.312
#4	<.0000	<.0000	<.0000	<.0000	.0297	<.0000	1.277

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0310	<.0000	4.244	.0022	<.0000	<.0000	.0487
SDev	.0004	.0057	.019	.0054	.0063	.0414	.1119
%RSD	1.258	16.63	.4589	247.4	43.07	146.9	229.7

#1	.0308	<.0000	4.251	<.0000	<.0000	<.0000	.0076
#2	.0308	<.0000	4.266	.0098	<.0000	.0231	.0405
#3	.0308	<.0000	4.240	.0026	<.0000	<.0000	<.0000
#4	.0316	<.0000	4.220	<.0000	<.0000	<.0000	.2049

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.6163	.0196	<.0000	.0001
SDev	.0160	.0278	.0010	.0004
%RSD	2.599	141.9	44.86	348.7

#1	.6163	<.0000	<.0000	.0008
#2	.6381	.0123	<.0000	<.0000
#3	.6108	.0414	<.0000	<.0000
#4	.6000	.0414	<.0000	<.0000

Analysis Report

01/24/02 10:59:32 AM

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Method: IECW Sample Name: 31458lab dup Operator: it
 Run Time: 01/24/02 10:57:44
 Comment:
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0424	.0008	.0128 ¹²⁸	<.0000	6.027 ⁶⁰⁰⁷
SDev	.0005	.0060	.0318	.0013	.0004	.0001	.017
%RSD	15.46	34.99	75.12	149.1	2.791	15.38	.2858
#1	<.0000	<.0000	.0466	.0022	.0130	<.0000	6.025
#2	<.0000	<.0000	.0853	<.0000	.0123	<.0000	6.018
#3	<.0000	<.0000	.0242	<.0000	.0130	<.0000	6.052
#4	<.0000	<.0000	.0133	.0016	.0130	<.0000	6.013
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.0012	<.0000	<.0000	<.0000	.0284 ³⁰⁴	<.0000	1.282 ¹³⁰⁰
SDev	.0013	.0021	.0012	.0008	.0024	.0705	.014
%RSD	108.5	83.80	39.45	24.36	8.480	9.574	1.118
#1	.0023	<.0000	<.0000	<.0000	.0264	<.0000	1.264
#2	<.0000	<.0000	<.0000	<.0000	.0313	<.0000	1.291
#3	.0023	<.0000	<.0000	<.0000	.0264	<.0000	1.295
#4	.0004	<.0000	<.0000	<.0000	.0297	<.0000	1.277
Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0316 ³¹⁰	<.0000	4.238 ⁴²⁴⁴	.0033	<.0000	<.0000	.0398
SDev	.0006	.0056	.028	.0036	.0249	.0235	.1907
%RSD	2.008	17.92	.6588	110.5	89.24	124.7	212.4
#1	.0308	<.0000	4.243	.0069	<.0000	.0045	.2049
#2	.0324	<.0000	4.197	.0040	<.0000	<.0000	.2705
#3	.0316	<.0000	4.249	.0040	<.0000	<.0000	.0405
#4	.0316	<.0000	4.261	<.0000	<.0000	<.0000	<.0000
Elem	Si2881	Tl1908	V_2924	Zn2138			
Avge	.6122	<.0000	<.0000	.0003			
SDev	.0027	.0711	.0012	.0005			
%RSD	.4432	426.8	66.88	146.7			
#1	.6109	.0705	<.0000	<.0000			
#2	.6163	.0123	<.0000	<.0000			
#3	.6109	<.0000	<.0000	.0008			
#4	.6109	<.0000	<.0000	.0008			

Analysis Report

01/24/02 11:08:01 AM

page 1

Method: IECW

Sample Name: 31458 *SPK*

Operator: it

Run Time: 01/24/02 11:03:54

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.0170	.2703	.3129	.2528	.2624	.0482	5.948
SDev	.0020	.0066	.0702	.0039	.0013	.0002	.022
%RSD	11.51	2.459	22.43	1.552	.4967	.4919	.3663
#1	.0151	.2661	.3213	.2563	.2638	.0485	5.941
#2	.0156	.2639	.2155	.2472	.2631	.0483	5.962
#3	.0182	.2785	.3824	.2533	.2617	.0482	5.969
#4	.0192	.2729	.3324	.2545	.2609	.0479	5.921
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.1034	.1048	.2476	.2443	.2869	<.0000	1.295
SDev	.0034	.0010	.0011	.0010	.0027	.5502	.014
%RSD	3.328	.9969	.4626	.4241	.9558	176.5	1.106
#1	.1008	.1041	.2483	.2457	.2841	<.0000	1.299
#2	.1033	.1041	.2469	.2441	.2873	<.0000	1.285
#3	.1083	.1048	.2488	.2432	.2905	.2934	1.313
#4	.1014	.1063	.2464	.2441	.2857	<.0000	1.282
Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.2847	.0882	4.235	.2550	.2433	.1767	.3727
SDev	.0013	.0066	.054	.0026	.0179	.0733	.0776
%RSD	.4668	7.522	1.281	1.033	7.376	41.46	20.81
#1	.2841	.0805	4.316	.2536	.2166	.1393	.4216
#2	.2849	.0938	4.208	.2565	.2554	.1019	.4542
#3	.2864	.0938	4.208	.2579	.2505	.2703	.3238
#4	.2833	.0849	4.207	.2521	.2505	.1954	.2913
Elem	Si2881	Ti1908	V_2924	Zn2138			
Avge	.8564	.3003	.0987	.2527			
SDev	.0162	.0624	.0014	.0022			
%RSD	1.892	20.78	1.468	.8810			
#1	.8375	.3292	.0989	.2508			
#2	.8483	.3003	.0967	.2542			
#3	.8698	.2136	.1003	.2508			
#4	.8699	.3581	.0989	.2551			

Analysis Report

01/24/02 11:10:47 AM

page 1

Method: IECW Sample Name: 31502

Run Time: 01/24/02 11:09:03

Comment:

Operator: it

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0017	<.0000	.0019	.0128	<.0000	6.183
SDev	.0014	.0127	.0501	.0018	.0004	.0001	.015
%RSD	52.12	729.9	283.4	94.66	3.208	23.09	.2411

#1	<.0000	.0062	<.0000	.0001	.0131	<.0000	6.192
#2	<.0000	<.0000	.0132	.0013	.0124	<.0000	6.167
#3	<.0000	<.0000	.0354	.0043	.0124	<.0000	6.175
#4	<.0000	.0175	<.0000	.0019	.0131	<.0000	6.199

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	.0001	.0046	.0353	<.0000	1.283
SDev	.0017	.0009	.0007	.0007	.0024	.1834	.029
%RSD	239.0	75.92	1004.	14.65	6.838	25.64	2.285

#1	.0007	<.0000	<.0000	.0046	.0381	<.0000	1.296
#2	<.0000	<.0000	.0001	.0038	.0333	<.0000	1.251
#3	.0007	<.0000	<.0000	.0046	.0365	<.0000	1.268
#4	<.0000	<.0000	.0010	.0054	.0332	<.0000	1.317

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0322	<.0000	8.191	<.0000	.0231	<.0000	.1541
SDev	.0004	.0084	.025	.0069	.0213	.0242	.0556
%RSD	1.396	62.69	.3109	323.4	92.51	32.23	36.09

#1	.0326	<.0000	8.171	<.0000	.0133	<.0000	.0970
#2	.0318	<.0000	8.169	<.0000	<.0000	<.0000	.1623
#3	.0326	<.0000	8.204	.0051	.0328	<.0000	.1297
#4	.0318	<.0000	8.221	.0022	.0473	<.0000	.2273

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.9185	.0195	<.0000	<.0000
SDev	.0044	.0721	.0006	.0004
%RSD	.4747	370.6	34.79	139.1

#1	.9185	.0411	<.0000	<.0000
#2	.9132	.0123	<.0000	.0003
#3	.9185	<.0000	<.0000	<.0000
#4	.9238	.0988	<.0000	<.0000

Analysis Report

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page 1

Method: IECW Sample Name: 31504

Run Time: 01/24/02 11:12:58

Comment:

Operator: it

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0005	.0023	.0130	<.0000	6.114
SDev	.0007	.0032	.0437	.0014	.0004	.0000	.008
%RSD	27.51	195.7	8953.	60.87	2.762	.0000	.1247

#1	<.0000	<.0000	.0354	.0013	.0131	<.0000	6.109
#2	<.0000	.0006	<.0000	.0043	.0131	<.0000	6.110
#3	<.0000	.0006	.0408	.0013	.0124	<.0000	6.125
#4	<.0000	<.0000	<.0000	.0025	.0131	<.0000	6.115

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	.0010	.0073	.0276	<.0000	1.284
SDev	.0011	.0016	.0021	.0010	.0021	.3039	.013
%RSD	81.31	108.2	198.4	14.27	7.514	55.24	1.050

#1	<.0000	.0001	.0020	.0071	.0252	<.0000	1.285
#2	<.0000	<.0000	<.0000	.0071	.0268	<.0000	1.296
#3	.0001	<.0000	<.0000	.0062	.0300	<.0000	1.289
#4	<.0000	<.0000	.0035	.0087	.0284	<.0000	1.264

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0203	<.0000	6.892	.0011	.0134	<.0000	.1541
SDev	.0004	.0105	.059	.0048	.0324	.0324	.0163
%RSD	1.916	78.25	.8592	424.9	243.0	86.14	10.56

#1	.0209	<.0000	6.877	<.0000	.0376	<.0000	.1297
#2	.0201	.0010	6.971	.0036	.0425	<.0000	.1622
#3	.0201	<.0000	6.829	<.0000	<.0000	<.0000	.1622
#4	.0201	<.0000	6.889	.0065	<.0000	<.0000	.1622

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.9104	.0267	<.0000	.0008
SDev	.0227	.0553	.0009	.0011
%RSD	2.495	207.1	48.62	144.9

#1	.9347	.0411	<.0000	.0020
#2	.8861	<.0000	<.0000	.0003
#3	.8969	<.0000	<.0000	<.0000
#4	.9239	.0989	<.0000	.0012

Analysis Report

01/24/02 11:16:56 AM

page 1

Method: IECW Sample Name: 31549

Operator: it

Run Time: 01/24/02 11:15:12

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0103	.0019	.0131	<.0000	6.030
SDev	.0007	.0059	.0607	.0008	.0000	.0001	.020
%RSD	27.53	133.6	591.2	45.16	.0150	15.38	.3283
#1	<.0000	<.0000	.0911	.0019	.0131	<.0000	6.057
#2	<.0000	.0006	.0130	.0025	.0131	<.0000	6.011
#3	<.0000	<.0000	<.0000	.0007	.0131	<.0000	6.030
#4	<.0000	<.0000	<.0000	.0025	.0131	<.0000	6.020
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	.0004	<.0000	.0304	<.0000	1.305
SDev	.0015	.0004	.0011	.0007	.0040	.1759	.012
%RSD	676.3	68.64	251.1	33.59	13.21	29.07	.8850
#1	<.0000	<.0000	.0001	<.0000	.0349	<.0000	1.306
#2	<.0000	<.0000	.0001	<.0000	.0317	<.0000	1.289
#3	.0020	<.0000	.0020	<.0000	.0252	<.0000	1.317
#4	<.0000	<.0000	<.0000	<.0000	.0300	<.0000	1.306
Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0306	<.0000	4.302	<.0000	.0097	<.0000	.0238
SDev	.0010	.0026	.054	.0085	.0128	.0235	.1140
%RSD	3.280	17.67	1.250	814.3	131.5	38.57	479.2
#1	.0318	<.0000	4.368	<.0000	.0231	<.0000	.0645
#2	.0303	<.0000	4.262	<.0000	.0182	<.0000	<.0000
#3	.0310	<.0000	4.324	<.0000	<.0000	<.0000	.1622
#4	.0295	<.0000	4.255	.0109	<.0000	<.0000	<.0000
Elem	Si2881	Tl1908	V_2924	Zn2138			
Avge	.6579	<.0000	<.0000	<.0000			
SDev	.0092	.1140	.0007	.0008			
%RSD	1.403	1210.	45.76	90.24			
#1	.6700	<.0000	<.0000	<.0000			
#2	.6592	.0411	<.0000	<.0000			
#3	.6484	.1277	<.0000	<.0000			
#4	.6538	<.0000	<.0000	<.0000			

Analysis Report

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page 1

Method: IECW Sample Name: 31549

Run Time: 01/24/02 11:17:49

Comment:

Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0051	.0157	.0016	.0128	<.0000	6.031
SDev	.0007	.0021	.0365	.0006	.0004	.0000	.024
%RSD	34.99	40.06	232.5	38.10	3.217	.0000	.4022

#1	<.0000	.0074	.0575	.0025	.0124	<.0000	6.018
#2	<.0000	.0029	<.0000	.0013	.0124	<.0000	6.022
#3	<.0000	.0040	.0352	.0013	.0131	<.0000	6.067
#4	<.0000	.0063	<.0000	.0013	.0131	<.0000	6.017

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.0001	<.0000	<.0000	<.0000	.0349	<.0000	1.294
SDev	.0019	.0019	.0019	.0007	.0013	.0764	.004
%RSD	1979.	86.76	3562.	57.07	3.767	13.43	.3475

#1	<.0000	<.0000	<.0000	<.0000	.0365	<.0000	1.299
#2	.0026	<.0000	<.0000	<.0000	.0349	<.0000	1.296
#3	<.0000	<.0000	.0015	<.0000	.0333	<.0000	1.289
#4	.0001	<.0000	.0015	<.0000	.0349	<.0000	1.292

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0303	<.0000	4.274	<.0000	.0012	<.0000	.0645
SDev	.0006	.0026	.029	.0034	.0146	.0108	.0376
%RSD	2.102	17.65	.6702	59.90	1217.	14.39	58.35

#1	.0303	<.0000	4.312	<.0000	<.0000	<.0000	.0319
#2	.0295	<.0000	4.259	<.0000	.0133	<.0000	.0971
#3	.0303	<.0000	4.278	<.0000	<.0000	<.0000	.0971
#4	.0310	<.0000	4.247	<.0000	.0133	<.0000	.0319

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.6781	.0628	<.0000	<.0000
SDev	.0185	.1233	.0010	.0018
%RSD	2.721	196.5	71.67	1905.

#1	.6754	<.0000	<.0000	.0020
#2	.6538	.2143	<.0000	<.0000
#3	.6863	.0989	<.0000	.0003
#4	.6971	.0122	<.0000	<.0000

Analysis Report

01/24/02 11:22:36 AM

page 1

Method: IECW Sample Name: 31550

Run Time: 01/24/02 11:20:52

Comment:

Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0048	<.0000	.0011	.0130	<.0000	6.049
SDev	.0020	.0123	.0782	.0013	.0004	.0000	.020
%RSD	112.2	254.5	7780.	119.1	2.762	.0000	.3240
#1	<.0000	<.0000	<.0000	.0007	.0131	<.0000	6.044
#2	<.0000	<.0000	.0242	.0019	.0131	<.0000	6.024
#3	<.0000	.0051	.0241	.0025	.0124	<.0000	6.061
#4	.0004	.0220	.0628	<.0000	.0131	<.0000	6.068
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	.0008	<.0000	.0333	<.0000	1.305
SDev	.0018	.0009	.0009	.0015	.0026	.3623	.012
%RSD	477.0	78.00	117.3	127.6	7.899	87.81	.9074
#1	.0001	<.0000	.0001	<.0000	.0333	<.0000	1.310
#2	<.0000	<.0000	.0001	<.0000	.0333	<.0000	1.289
#3	<.0000	<.0000	.0010	<.0000	.0300	<.0000	1.317
#4	.0020	<.0000	.0020	.0005	.0365	<.0000	1.306
Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0303	<.0000	4.307	.0015	.0036	<.0000	.1133
SDev	.0006	.0044	.034	.0083	.0221	.0216	.0775
%RSD	2.102	78.64	.7804	560.9	609.1	32.86	68.41
#1	.0310	<.0000	4.336	<.0000	.0328	<.0000	.0319
#2	.0303	<.0000	4.295	<.0000	<.0000	<.0000	.1948
#3	.0295	<.0000	4.332	<.0000	<.0000	<.0000	.0645
#4	.0303	<.0000	4.264	.0138	.0036	<.0000	.1621
Elem	Si2881	Tl1908	V_2924	Zn2138			
Avge	.6876	<.0000	<.0000	<.0000			
SDev	.0218	.1444	.0007	.0008			
%RSD	3.166	6510.	87.59	911.4			
#1	.6700	<.0000	<.0000	<.0000			
#2	.6755	.2144	<.0000	<.0000			
#3	.6862	<.0000	<.0000	<.0000			
#4	.7186	<.0000	<.0000	.0012			

Analysis Report

01/24/02 11:25:36 AM

page 1

Method: IECW Sample Name: 31551

Operator: it

Run Time: 01/24/02 11:23:52

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0047	.0472	.0126	.0288	<.0000	24.82
SDev	.0003	.0104	.0238	.0017	.0003	.0000	.10
%RSD	93.49	221.0	50.31	13.79	1.221	.0000	.3991

#1	<.0000	<.0000	.0809	.0148	.0283	<.0000	24.74
#2	<.0000	.0149	.0415	.0124	.0290	<.0000	24.84
#3	.0001	.0069	.0249	.0124	.0290	<.0000	24.95
#4	<.0000	.0070	.0417	.0106	.0290	<.0000	24.74

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	.0006	.0043	<.0000	.0701	1.119	8.311
SDev	.0026	.0007	.0027	.0009	.0027	.151	.068
%RSD	1031.	121.3	62.34	57.03	3.919	13.52	.8128

#1	<.0000	<.0000	.0016	<.0000	.0697	.9903	8.290
#2	.0016	.0013	.0074	<.0000	.0665	1.210	8.304
#3	.0023	.0006	.0026	<.0000	.0713	.9903	8.405
#4	<.0000	.0008	.0055	<.0000	.0730	1.284	8.245

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0959	<.0000	27.43	.0005	.0158	<.0000	.1589
SDev	.0006	.0056	.23	.0077	.0166	.0153	.1190
%RSD	.6585	40.31	.8351	1718.	105.2	31.81	74.90

#1	.0959	<.0000	27.64	<.0000	.0134	<.0000	.2892
#2	.0959	<.0000	27.43	.0120	.0327	<.0000	.0937
#3	.0967	<.0000	27.53	<.0000	.0230	<.0000	.0285
#4	.0952	<.0000	27.11	<.0000	<.0000	<.0000	.2240

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	1.564	.1670	<.0000	<.0000
SDev	.004	.1936	.0009	.0005
%RSD	.2842	115.9	228.4	112.1

#1	1.559	.1165	<.0000	<.0000
#2	1.564	.1453	<.0000	<.0000
#3	1.564	<.0000	<.0000	<.0000
#4	1.570	.4341	.0008	<.0000

Analysis Report

01/24/02 11:30:33 AM

page 1

Method: IECW Sample Name: 31585

Run Time: 01/24/02 11:28:49

Comment:

Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0054	.0046	.0010	.0130	<.0000	6.053
SDev	.0023	.0127	.0477	.0016	.0004	.0001	.011
%RSD	184.4	235.0	1048.	164.4	2.744	27.22	.1811
#1	<.0000	<.0000	<.0000	<.0000	.0131	<.0000	6.055
#2	<.0000	.0018	.0297	.0007	.0131	<.0000	6.055
#3	.0019	.0243	.0572	.0019	.0131	<.0000	6.065
#4	<.0000	<.0000	<.0000	.0025	.0124	<.0000	6.038
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	.0009	<.0000	.0332	<.0000	1.317
SDev	.0026	.0034	.0015	.0015	.0026	.5514	.015
%RSD	175.2	175.7	170.9	127.6	7.883	107.4	1.142
#1	<.0000	<.0000	.0020	<.0000	.0365	<.0000	1.338
#2	<.0000	<.0000	.0015	<.0000	.0332	<.0000	1.310
#3	.0020	.0031	.0015	.0005	.0332	.2201	1.317
#4	<.0000	<.0000	<.0000	<.0000	.0300	<.0000	1.303
Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0303	<.0000	7.583	.0000	.0194	<.0000	.0970
SDev	.0006	.0051	.098	.0049	.0222	.0242	.0532
%RSD	2.100	30.61	1.289	15420.	114.4	32.16	54.77
#1	.0303	<.0000	7.616	<.0000	<.0000	<.0000	.0970
#2	.0303	<.0000	7.445	.0022	.0473	<.0000	.0971
#3	.0310	<.0000	7.597	.0051	.0230	<.0000	.1621
#4	.0295	<.0000	7.674	<.0000	.0134	<.0000	.0319
Elem	Si2881	Tl1908	V_2924	Zn2138			
Avge	.9536	.0411	<.0000	.0001			
SDev	.0184	.1130	.0014	.0008			
%RSD	1.934	275.2	347.3	684.1			
#1	.9562	.0988	<.0000	<.0000			
#2	.9347	<.0000	.0012	<.0000			
#3	.9779	.1565	.0005	.0003			
#4	.9455	.0122	<.0000	.0012			

Analysis Report

01/24/02 11:33:08 AM

page 1

Method: IECW Sample Name: 31586

Operator: it

Run Time: 01/24/02 11:31:24

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0133	.0309	.0010	.0126	<.0000	6.053
SDev	.0010	.0031	.0666	.0003	.0004	.0000	.013
%RSD	97.52	23.32	215.3	35.62	2.821	.0000	.2108

#1	.0004	.0164	.1186	.0007	.0131	<.0000	6.071
#2	<.0000	.0153	.0295	.0007	.0124	<.0000	6.049
#3	<.0000	.0096	.0184	.0013	.0124	<.0000	6.044
#4	<.0000	.0119	<.0000	.0013	.0124	<.0000	6.046

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.0010	<.0000	.0014	<.0000	.0345	<.0000	1.305
SDev	.0015	.0007	.0024	.0004	.0033	.1389	.013
%RSD	144.5	36.10	175.7	29.73	9.617	26.11	.9583

#1	<.0000	<.0000	.0034	<.0000	.0349	<.0000	1.317
#2	.0020	<.0000	.0035	<.0000	.0300	<.0000	1.303
#3	.0001	<.0000	<.0000	<.0000	.0381	<.0000	1.313
#4	.0026	<.0000	.0001	<.0000	.0349	<.0000	1.289

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0324	<.0000	7.254	<.0000	.0182	<.0000	.0807
SDev	.0004	.0042	.076	.0042	.0143	.0415	.1080
%RSD	1.203	47.35	1.049	129.0	78.67	67.93	133.8

#1	.0326	<.0000	7.199	<.0000	.0327	<.0000	.0644
#2	.0326	<.0000	7.366	.0022	.0036	<.0000	.1622
#3	.0318	<.0000	7.226	<.0000	.0279	<.0000	<.0000
#4	.0326	<.0000	7.224	<.0000	.0085	<.0000	.1622

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.9576	.0627	<.0000	<.0000
SDev	.0235	.1038	.0008	.0011
%RSD	2.453	165.4	85.94	146.2

#1	.9617	.0411	<.0000	.0003
#2	.9239	.2143	<.0000	<.0000
#3	.9671	.0122	<.0000	<.0000
#4	.9779	<.0000	<.0000	<.0000

Analysis Report

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page 1

Method: IECW Sample Name: 31587

Operator: it

Run Time: 01/24/02 11:33:46

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0136	.0299	.0067	.0214	<.0000	15.69
SDev	.0009	.0165	.0547	.0017	.0000	.0001	.05
%RSD	369.1	121.5	182.9	26.02	.0261	27.22	.3372

#1	<.0000	<.0000	<.0000	.0047	.0214	<.0000	15.64
#2	.0003	.0353	.1104	.0089	.0214	<.0000	15.69
#3	<.0000	.0038	.0105	.0065	.0214	<.0000	15.66
#4	.0008	.0173	.0103	.0065	.0214	<.0000	15.76

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	.0002	.0031	.0113	.0671	.7977	4.896
SDev	.0016	.0013	.0013	.0008	.0024	.1972	.021
%RSD	655.8	533.4	42.77	7.264	3.595	24.72	.4206

#1	<.0000	<.0000	.0015	.0109	.0683	.7702	4.866
#2	<.0000	.0010	.0039	.0126	.0635	.5501	4.897
#3	<.0000	<.0000	.0025	.0109	.0683	1.027	4.911
#4	.0018	.0017	.0044	.0109	.0683	.8436	4.908

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0767	<.0000	17.24	.0024	.0194	<.0000	.1686
SDev	.0006	.0022	.09	.0083	.0128	.0385	.0410
%RSD	.8292	46.46	.5425	347.2	65.92	89.76	24.34

#1	.0767	<.0000	17.11	.0013	.0182	<.0000	.2256
#2	.0775	<.0000	17.24	.0143	.0084	<.0000	.1604
#3	.0759	<.0000	17.31	<.0000	.0133	<.0000	.1605
#4	.0767	<.0000	17.31	<.0000	.0376	<.0000	.1278

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	1.388	.1869	.0001	.0042
SDev	.016	.0862	.0007	.0014
%RSD	1.162	46.15	570.3	34.64

#1	1.393	.2952	<.0000	.0027
#2	1.382	.2085	.0003	.0035
#3	1.371	.1508	.0010	.0061
#4	1.409	.0930	<.0000	.0044

Analysis Report

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page 1

Method: IECW Sample Name: 31588

Operator: it

Run Time: 01/24/02 11:36:38

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.0010	.0205	.0293	.0017	.0138	<.0000	6.812
SDev	.0009	.0098	.0545	.0018	.0000	.0001	.022
%RSD	83.92	47.93	186.3	108.2	.0177	18.18	.3267

#1	.0019	.0320	<.0000	.0000	.0138	<.0000	6.829
#2	.0009	.0084	.0740	.0042	.0138	<.0000	6.800
#3	<.0000	.0230	.0181	.0012	.0138	<.0000	6.833
#4	.0014	.0185	.0683	.0012	.0138	<.0000	6.787

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	.0015	.0028	.0097	.0367	.0367	1.557
SDev	.0011	.0018	.0013	.0008	.0036	.3169	.007
%RSD	274.7	115.3	44.18	8.114	9.700	864.2	.4470

#1	.0001	.0003	.0014	.0095	.0379	.4768	1.560
#2	<.0000	.0007	.0043	.0103	.0331	<.0000	1.560
#3	.0007	.0010	.0033	.0103	.0411	<.0000	1.560
#4	<.0000	.0042	.0023	.0087	.0347	.0367	1.546

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0337	<.0000	7.831	.0018	.0194	<.0000	.1539
SDev	.0008	.0036	.015	.0038	.0121	.0153	.1417
%RSD	2.306	29.40	.1888	213.6	62.73	53.93	92.07

#1	.0341	<.0000	7.839	.0050	.0036	<.0000	.2271
#2	.0341	<.0000	7.824	.0036	.0182	<.0000	.2924
#3	.0341	<.0000	7.814	.0021	.0327	<.0000	.1294
#4	.0326	<.0000	7.847	<.0000	.0230	<.0000	<.0000

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	1.018	.0912	.0015	.0020
SDev	.011	.1382	.0012	.0014
%RSD	1.105	151.6	80.91	68.82

#1	1.015	.2139	.0033	.0003
#2	1.004	<.0000	.0005	.0020
#3	1.031	.0984	.0012	.0037
#4	1.021	.1562	.0012	.0020

Analysis Report

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page 1

Method: IECW Sample Name: ipc
 Run Time: 01/24/02 11:42:06
 Comment:
 Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.4894	1.040	.0338	.9799	.9889	.9803	1.018
SDev	.0043	.011	.0697	.0027	.0007	.0018	.004
%RSD	.8861	1.050	206.2	.2799	.0692	.1873	.3911
#1	.4860	1.033	<.0000	.9763	.9884	.9780	1.015
#2	.4891	1.045	.0602	.9829	.9884	.9812	1.019
#3	.4870	1.028	.0047	.9805	.9898	.9798	1.014
#4	.4957	1.052	.1158	.9799	.9891	.9823	1.023
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	1.003	1.003	.9742	.9704	1.009	.1100	.9977
SDev	.006	.003	.0050	.0014	.004	.0847	.0115
%RSD	.5886	.3098	.5121	.1469	.4190	76.98	1.153
#1	.9960	1.002	.9668	.9684	1.005	.0367	.9969
#2	1.002	1.005	.9770	.9708	1.006	.0367	1.000
#3	1.010	.9997	.9775	.9708	1.013	.1834	.9829
#4	1.005	1.007	.9755	.9716	1.013	.1834	1.011
Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.9962	.9508	1.010	1.011	1.033	.9323	.2472
SDev	.0023	.0111	.007	.011	.009	.0324	.0973
%RSD	.2345	1.163	.7387	1.070	.8996	3.475	39.35
#1	.9951	.9342	1.009	1.013	1.020	.8856	.3531
#2	.9935	.9563	1.020	1.022	1.030	.9417	.2227
#3	.9982	.9563	1.007	.9961	1.040	.9417	.1251
#4	.9982	.9563	1.003	1.011	1.040	.9604	.2878
Elem	Si2881	Tl1908	V_2924	Zn2138			
Avge	1.161	1.172	.9856	.9986			
SDev	.015	.152	.0032	.0052			
%RSD	1.335	12.93	.3262	.5202			
#1	1.157	1.165	.9812	.9923			
#2	1.173	.9630	.9861	1.003			
#3	1.140	1.310	.9861	1.002			
#4	1.173	1.252	.9889	.9965			

Analysis Report

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page 1

Method: IECW Sample Name: cb

Operator: it

Run Time: 01/24/02 11:45:39

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B12496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0390	<.0000	<.0000	<.0000	<.0000
SDev	.0009	.0098	.0577	.0016	.0000	.0001	.0019
%RSD	346.5	498.0	147.9	1013.	.1164	76.59	28.05

#1	.0005	.0037	<.0000	<.0000	<.0000	.0000	<.0000
#2	.0000	.0014	<.0000	.0017	<.0000	<.0000	<.0000
#3	<.0000	<.0000	.1089	<.0000	<.0000	<.0000	<.0000
#4	.0000	.0037	.0640	.0004	<.0000	<.0000	<.0000

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	.0011	.0008	.0036	<.0000	<.0000
SDev	.0026	.0020	.0019	.0004	.0026	.2585	.0110
%RSD	1653.	1071.	171.1	49.98	72.51	27.64	126.5

#1	.0021	.0020	<.0000	.0014	.0068	<.0000	<.0000
#2	<.0000	<.0000	.0028	.0006	.0036	<.0000	.0052
#3	<.0000	.0001	.0013	.0006	.0004	<.0000	<.0000
#4	.0021	<.0000	.0018	.0006	.0036	<.0000	<.0000

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0000	.0111	<.0000	.0033	.0231	<.0000	.1384
SDev	.0006	.0022	.0118	.0019	.0190	.0179	.0489
%RSD	311400.	19.98	204.5	57.36	82.45	29.46	35.31

#1	.0000	.0100	.0005	.0054	.0425	<.0000	.0977
#2	.0008	.0144	<.0000	.0025	<.0000	<.0000	.1629
#3	.0000	.0100	<.0000	.0011	.0328	<.0000	.1955
#4	<.0000	.0100	.0063	.0040	.0182	<.0000	.0977

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.0203	.0794	<.0000	.0000
SDev	.0167	.0640	.0014	.0005
%RSD	82.44	80.62	255.1	1062000.

#1	.0297	.1011	.0005	.0004
#2	.0351	.0144	<.0000	.0004
#3	<.0000	.0433	<.0000	<.0000
#4	.0189	.1588	.0005	<.0000

Analysis Report

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page 1

Method: IECW Sample Name: 31589

Run Time: 01/24/02 12:24:16

Comment:

Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0181	.1495	.0121	.0263	<.0000	21.90
SDev	.0013	.0042	.0389	.0009	.0003	.0001	.10
%RSD	1325.	22.95	26.01	7.103	1.323	28.57	.4487

#1	.0002	.0130	.1036	.0127	.0258	<.0000	21.77
#2	.0002	.0186	.1537	.0127	.0264	<.0000	21.98
#3	.0012	.0231	.1982	.0120	.0264	<.0000	21.96
#4	<.0000	.0175	.1425	.0108	.0265	<.0000	21.88

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.0001	<.0000	.0036	.0138	.0768	.5593	7.155
SDev	.0021	.0020	.0013	.0008	.0023	.1509	.037
%RSD	1711.	176.7	35.24	5.680	2.977	26.97	.5168

#1	.0004	<.0000	.0023	.0132	.0784	.6602	7.100
#2	.0023	.0006	.0047	.0140	.0735	.5135	7.180
#3	<.0000	.0006	.0027	.0149	.0784	.6969	7.173
#4	.0004	<.0000	.0047	.0132	.0768	.3668	7.166

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.1020	<.0000	24.18	.0127	.0145	<.0000	.2245
SDev	.0019	.0036	.21	.0022	.0211	.0540	.1303
%RSD	1.906	28.59	.8509	17.13	145.5	271.3	58.05

#1	.0999	<.0000	24.03	.0138	<.0000	<.0000	.2897
#2	.1015	<.0000	24.38	.0137	.0327	.0456	.2896
#3	.1046	<.0000	24.33	.0137	.0181	<.0000	.0290
#4	.1022	<.0000	23.98	.0094	.0230	<.0000	.2896

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	1.653	.1327	<.0000	.0000
SDev	.033	.0500	.0004	.0007
%RSD	1.975	37.68	46.85	1808.

#1	1.615	.1184	<.0000	<.0000
#2	1.675	.0894	<.0000	.0000
#3	1.685	.1182	<.0000	.0000
#4	1.637	.2049	<.0000	.0009

Analysis Report

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page 1

Method: IECW Sample Name: 31589lab dup Operator: it
 Run Time: 01/24/02 12:26:20
 Comment:
 Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0083	.0786	.0122	.0261	<.0000	21.68
SDev	.0012	.0105	.0718	.0020	.0004	.0001	.18
%RSD	109.3	127.0	91.32	16.41	1.560	18.18	.8247
#1	<.0000	.0141	.0869	.0127	.0257	<.0000	21.82
#2	<.0000	.0153	.0367	.0096	.0265	<.0000	21.83
#3	.0002	.0108	.0146	.0145	.0258	<.0000	21.46
#4	<.0000	<.0000	.1763	.0121	.0265	<.0000	21.62
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.0011	<.0000	.0035	.0138	.0740	.5318	7.102
SDev	.0029	.0017	.0021	.0004	.0008	.3342	.064
%RSD	267.7	12130.	60.97	2.965	1.092	62.83	.9030
#1	.0049	.0008	.0008	.0140	.0736	.3668	7.142
#2	<.0000	.0013	.0052	.0140	.0735	.6235	7.149
#3	.0017	.0004	.0052	.0141	.0736	.9536	7.010
#4	<.0000	<.0000	.0028	.0132	.0752	.1834	7.107
Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.1009	<.0000	24.01	.0058	.0121	<.0000	.2001
SDev	.0012	.0042	.31	.0095	.0083	.0415	.1109
%RSD	1.154	45.43	1.302	164.3	68.44	78.80	55.42
#1	.1022	<.0000	24.25	<.0000	.0036	<.0000	.1594
#2	.1015	<.0000	24.31	.0152	.0133	<.0000	.0616
#3	.0999	<.0000	23.70	.0008	.0230	<.0000	.2897
#4	.0999	<.0000	23.79	.0123	.0085	<.0000	.2897
Elem	Si2881	Tl1908	V_2924	Zn2138			
Avge	1.605	.2411	<.0000	.0007			
SDev	.026	.1187	.0006	.0008			
%RSD	1.642	49.25	113.0	119.2			
#1	1.626	.3782	<.0000	.0009			
#2	1.626	.2338	<.0000	.0017			
#3	1.572	.2629	.0002	.0000			
#4	1.594	.0895	<.0000	.0000			

Analysis Report

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page 1

Method: IECW Sample Name: 31589spk

Operator: it

Run Time: 01/24/02 12:38:43

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B12496	Ba4934	Be3130	Ca3179
Avge	.0174	.2712	.2909	.2656	.2764	.0490	21.44
SDev	.0008	.0091	.0637	.0035	.0010	.0002	.08
%RSD	4.753	3.360	21.90	1.304	.3631	.4872	.3666

#1	.0164	.2583	.2953	.2629	.2757	.0487	21.33
#2	.0174	.2797	.3786	.2665	.2757	.0491	21.46
#3	.0184	.2729	.2561	.2629	.2764	.0491	21.45
#4	.0174	.2740	.2338	.2701	.2779	.0493	21.52

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.1041	.1027	.2477	.2587	.3300	.3668	7.060
SDev	.0046	.0019	.0026	.0004	.0031	.2339	.022
%RSD	4.395	1.840	1.067	.1585	.9350	63.77	.3078

#1	.0998	.1003	.2443	.2585	.3341	.0367	7.034
#2	.1081	.1027	.2506	.2585	.3276	.3668	7.055
#3	.1005	.1049	.2472	.2585	.3276	.5501	7.065
#4	.1081	.1029	.2486	.2593	.3308	.5135	7.086

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.3508	.0901	23.92	.2601	.2760	.1898	.4921
SDev	.0022	.0076	.21	.0053	.0127	.0281	.0857
%RSD	.6372	8.390	.8663	2.053	4.620	14.78	17.41

#1	.3475	.0890	23.97	.2550	.2651	.1571	.4188
#2	.3514	.0978	23.81	.2622	.2845	.1758	.4188
#3	.3522	.0934	23.71	.2666	.2651	.2132	.5491
#4	.3522	.0801	24.18	.2564	.2894	.2132	.5816

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	1.756	.4859	.0988	.2522
SDev	.019	.0982	.0003	.0039
%RSD	1.093	20.22	.3551	1.525

#1	1.729	.3488	.0986	.2472
#2	1.767	.5797	.0986	.2531
#3	1.756	.4931	.0986	.2522
#4	1.772	.5219	.0993	.2565

Analysis Report

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page 1

Method: IECW Sample Name: 31590

Run Time: 01/24/02 12:43:07

Comment:

Mode: CONC Corr. Factor: 1

Operator: it



Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0077	.0407	.0013	.0131	<.0000	6.065
SDev	.0000	.0023	.0253	.0007	.0000	.0000	.015
%RSD	.0149	30.32	62.17	54.76	.0130	.0000	.2491

#1	<.0000	.0108	.0351	.0007	.0131	<.0000	6.058
#2	<.0000	.0051	.0129	.0019	.0131	<.0000	6.085
#3	<.0000	.0074	.0742	.0019	.0131	<.0000	6.049
#4	<.0000	.0074	.0407	.0007	.0131	<.0000	6.067

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.0001	<.0000	<.0000	.0143	.0381	<.0000	1.301
SDev	.0016	.0016	.0024	.0008	.0023	.2728	.017
%RSD	1743.	766.6	4145.	5.527	5.973	25.65	1.320

#1	<.0000	.0012	.0005	.0136	.0365	<.0000	1.320
#2	.0020	.0003	.0025	.0145	.0413	<.0000	1.303
#3	<.0000	.0001	<.0000	.0136	.0381	<.0000	1.278
#4	.0007	<.0000	.0001	.0153	.0365	<.0000	1.303

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0336	<.0000	6.992	.0091	.0012	<.0000	.0970
SDev	.0004	.0022	.030	.0043	.0146	.0236	.0376
%RSD	1.160	19.82	.4323	47.63	1224.	33.44	38.75

#1	.0334	<.0000	6.979	.0036	<.0000	<.0000	.1296
#2	.0334	<.0000	6.975	.0109	.0133	<.0000	.0645
#3	.0334	<.0000	7.037	.0138	<.0000	<.0000	.0645
#4	.0341	<.0000	6.975	.0080	.0133	<.0000	.1296

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.8847	.1277	<.0000	.0014
SDev	.0052	.1225	.0010	.0008
%RSD	.5816	95.94	57.81	58.43

#1	.8914	<.0000	<.0000	.0003
#2	.8807	.0700	<.0000	.0012
#3	.8807	.2432	<.0000	.0020
#4	.8861	.2143	<.0000	.0020

Analysis Report

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Method: IECW Sample Name: 31591

Run Time: 01/24/02 12:46:23

Comment:

Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0098	.0101	.0026	.0138	<.0000	6.688
SDev	.0003	.0058	.0465	.0010	.0000	.0001	.020
%RSD	16.89	58.57	461.0	39.16	.0147	18.18	.3056
#1	<.0000	.0174	.0350	.0025	.0138	<.0000	6.701
#2	<.0000	.0039	<.0000	.0037	.0138	<.0000	6.704
#3	<.0000	.0073	.0575	.0031	.0138	<.0000	6.689
#4	<.0000	.0107	<.0000	.0013	.0138	<.0000	6.659
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	.0003	.0054	.0340	<.0000	1.278
SDev	.0019	.0011	.0018	.0012	.0034	.2970	.004
%RSD	2986.	160.1	621.5	21.58	9.839	35.60	.3142
#1	.0007	<.0000	.0015	.0070	.0332	<.0000	1.282
#2	<.0000	<.0000	.0015	.0054	.0348	<.0000	1.282
#3	.0020	.0009	<.0000	.0046	.0380	<.0000	1.275
#4	<.0000	<.0000	.0005	.0046	.0300	<.0000	1.275
Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0170	<.0000	7.489	.0044	.0158	<.0000	.0808
SDev	.0006	.0022	.021	.0080	.0180	.0386	.0977
%RSD	3.738	16.57	.2871	181.8	114.0	91.14	121.0
#1	.0162	<.0000	7.476	.0138	.0133	<.0000	.0319
#2	.0170	<.0000	7.508	.0080	.0376	.0091	.2273
#3	.0178	<.0000	7.466	<.0000	.0182	<.0000	.0319
#4	.0170	<.0000	7.506	<.0000	<.0000	<.0000	.0319
Elem	Si2881	Tl1908	V_2924	Zn2138			
Avge	.9239	.1782	<.0000	.0022			
SDev	.0171	.1211	.0009	.0004			
%RSD	1.848	67.92	70.08	18.99			
#1	.9347	.3587	<.0000	.0020			
#2	.9401	.1277	<.0000	.0029			
#3	.9185	.1277	<.0000	.0020			
#4	.9023	.0989	<.0000	.0020			

Analysis Report

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Method: IECW Sample Name: 31631

Run Time: 01/24/02 12:50:22

Comment:

Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0115	.0416	.0114	.0288	<.0000	24.64
SDev	.0003	.0024	.0277	.0017	.0003	.0000	.11
%RSD	45.43	21.13	66.50	15.18	1.220	.0000	.4265
#1	<.0000	.0115	.0082	.0136	.0290	<.0000	24.79
#2	<.0000	.0104	.0305	.0100	.0283	<.0000	24.56
#3	<.0000	.0093	.0695	.0100	.0290	<.0000	24.59
#4	<.0000	.0149	.0583	.0118	.0290	<.0000	24.62
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	.0041	<.0000	.0718	.8252	8.245
SDev	.0021	.0012	.0007	.0007	.0015	.3061	.026
%RSD	515.9	149.7	16.93	79.83	2.147	37.10	.3120
#1	<.0000	.0004	.0036	<.0000	.0713	.8802	8.283
#2	<.0000	<.0000	.0051	<.0000	.0698	1.210	8.234
#3	<.0000	.0000	.0041	<.0000	.0730	.7335	8.228
#4	.0023	<.0000	.0036	<.0000	.0730	.4768	8.234
Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.1084	<.0000	27.38	.0059	.0157	<.0000	.2403
SDev	.0000	.0042	.11	.0061	.0184	.0281	.0624
%RSD	.0020	26.42	.3986	102.9	116.8	113.5	25.96
#1	.1084	<.0000	27.27	.0077	.0424	<.0000	.2240
#2	.1084	<.0000	27.33	.0120	.0036	<.0000	.1589
#3	.1084	<.0000	27.53	<.0000	.0036	<.0000	.2892
#4	.1084	<.0000	27.38	.0062	.0133	.0080	.2891
Elem	Si2881	Tl1908	V_2924	Zn2138			
Avge	1.505	.2248	.0003	.0002			
SDev	.016	.1622	.0007	.0008			
%RSD	1.057	72.15	211.6	406.0			
#1	1.505	.4341	.0008	.0008			
#2	1.511	.1455	.0001	<.0000			
#3	1.521	.0588	.0008	<.0000			
#4	1.484	.2609	<.0000	.0008			

Analysis Report

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page 1

Method: IECW Sample Name: 31632

Run Time: 01/24/02 12:56:31

Comment:

Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0108	.0003	.0014	.0130	<.0000	6.005
SDev	.0004	.0078	.0326	.0017	.0004	.0000	.016
%RSD	68.69	72.94	10030.	121.2	2.760	.0000	.2661

#1	<.0000	.0074	<.0000	.0013	.0124	<.0000	6.028
#2	<.0000	.0040	.0408	.0037	.0131	<.0000	5.991
#3	<.0000	.0220	.0127	<.0000	.0131	<.0000	6.000
#4	<.0000	.0096	<.0000	.0013	.0131	<.0000	6.001

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.0004	.0005	.0018	<.0000	.0345	<.0000	1.284
SDev	.0006	.0014	.0005	.0008	.0030	.1704	.020
%RSD	154.1	270.6	27.56	57.04	8.822	17.70	1.542

#1	.0007	.0016	.0015	<.0000	.0349	<.0000	1.261
#2	.0007	.0014	.0015	<.0000	.0365	<.0000	1.292
#3	<.0000	.0007	.0015	<.0000	.0365	<.0000	1.306
#4	.0007	<.0000	.0025	<.0000	.0300	<.0000	1.275

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0318	<.0000	4.288	.0130	.0109	<.0000	.1785
SDev	.0006	.0066	.045	.0049	.0212	.0153	.0188
%RSD	1.997	42.57	1.054	37.80	194.2	23.24	10.55

#1	.0318	<.0000	4.289	.0065	<.0000	<.0000	.1622
#2	.0310	<.0000	4.280	.0152	.0230	<.0000	.1948
#3	.0326	<.0000	4.347	.0181	.0230	<.0000	.1621
#4	.0318	<.0000	4.237	.0123	.0182	<.0000	.1948

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.6363	.0339	<.0000	<.0000
SDev	.0247	.0493	.0009	.0005
%RSD	3.880	145.4	115.3	528.6

#1	.6323	.0412	<.0000	<.0000
#2	.6700	.0122	<.0000	<.0000
#3	.6322	.0988	<.0000	.0003
#4	.6107	<.0000	.0005	.0003

Analysis Report

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Method: IECW Sample Name: 31633

Run Time: 01/24/02 12:59:29

Comment:

Mode: CONC Corr. Factor: 1

Operator: it



Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0018	<.0000	.0011	.0124	<.0000	6.002
SDev	.0011	.0102	.0356	.0015	.0000	.0000	.012
%RSD	75.44	578.4	201.4	132.5	.0127	.0000	.1924

#1	<.0000	.0040	<.0000	.0013	.0124	<.0000	6.009
#2	<.0000	.0153	.0351	.0031	.0124	<.0000	6.014
#3	<.0000	<.0000	<.0000	.0007	.0124	<.0000	5.990
#4	<.0000	<.0000	<.0000	<.0000	.0124	<.0000	5.994

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.0001	<.0000	.0012	<.0000	.0304	<.0000	1.278
SDev	.0013	.0023	.0011	.0012	.0027	.3698	.010
%RSD	1331.	256.6	91.71	98.95	9.011	35.38	.7825

#1	<.0000	<.0000	.0015	<.0000	.0333	<.0000	1.278
#2	.0020	<.0000	.0025	.0005	.0300	<.0000	1.289
#3	<.0000	<.0000	.0006	<.0000	.0317	<.0000	1.278
#4	<.0000	.0016	.0001	<.0000	.0268	<.0000	1.264

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0341	<.0000	4.260	.0083	.0012	<.0000	.0889
SDev	.0000	.0042	.030	.0043	.0145	.0404	.0556
%RSD	.0026	38.04	.6952	51.69	1206.	61.53	62.53

#1	.0341	<.0000	4.257	.0094	<.0000	<.0000	.0645
#2	.0341	<.0000	4.282	.0065	.0230	<.0000	.1622
#3	.0341	<.0000	4.284	.0037	<.0000	<.0000	.0319
#4	.0342	<.0000	4.220	.0138	<.0000	<.0000	.0971

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.6485	.0123	<.0000	.0005
SDev	.0146	.1131	.0016	.0011
%RSD	2.253	921.6	203.3	196.0

#1	.6431	<.0000	.0012	.0003
#2	.6701	<.0000	<.0000	.0003
#3	.6431	.0700	<.0000	<.0000
#4	.6377	.1278	<.0000	.0020

Analysis Report

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page 1

Method: IECW Sample Name: 31637

Run Time: 01/24/02 13:03:25

Comment:

Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0023	<.0000	.0019	.0128	<.0000	6.011
SDev	.0011	.0035	.0243	.0015	.0004	.0000	.024
%RSD	44.89	150.8	70.59	78.60	3.206	.0000	.4001

#1	<.0000	.0040	<.0000	.0019	.0131	<.0000	6.047
#2	<.0000	.0029	<.0000	.0019	.0124	<.0000	5.998
#3	<.0000	.0051	<.0000	.0001	.0131	<.0000	6.003
#4	<.0000	<.0000	<.0000	.0037	.0124	<.0000	5.997

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	<.0000	.0337	<.0000	1.294
SDev	.0010	.0012	.0015	.0004	.0046	.3393	.023
%RSD	191.7	5707.	508.0	22.94	13.70	29.14	1.764

#1	<.0000	<.0000	.0010	<.0000	.0349	<.0000	1.306
#2	<.0000	.0014	.0006	<.0000	.0268	<.0000	1.264
#3	<.0000	.0005	<.0000	<.0000	.0365	<.0000	1.317
#4	.0007	<.0000	<.0000	<.0000	.0365	<.0000	1.289

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0306	<.0000	7.684	.0073	<.0000	<.0000	.1215
SDev	.0004	.0036	.086	.0076	.0170	.0320	.0672
%RSD	1.465	17.11	1.118	104.7	166000.	61.85	55.27

#1	.0303	<.0000	7.807	.0138	.0182	<.0000	.1948
#2	.0303	<.0000	7.678	.0138	<.0000	<.0000	.0645
#3	.0310	<.0000	7.615	<.0000	<.0000	<.0000	.0645
#4	.0310	<.0000	7.638	.0022	.0085	<.0000	.1622

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.8510	.0555	<.0000	<.0000
SDev	.0156	.0687	.0009	.0000
%RSD	1.830	123.7	45.42	.2125

#1	.8483	.1277	<.0000	<.0000
#2	.8537	.0123	<.0000	<.0000
#3	.8698	<.0000	<.0000	<.0000
#4	.8321	.0989	<.0000	<.0000

Analysis Report

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Method: IECW Sample Name: 31638

Run Time: 01/24/02 13:06:59

Comment:

Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0020	.0339	.0013	.0130	<.0000	5.986
SDev	.0008	.0034	.0469	.0013	.0004	.0000	.028
%RSD	51.23	164.9	138.6	102.1	2.766	.0000	.4681
#1	<.0000	.0006	.0575	.0013	.0131	<.0000	5.952
#2	<.0000	.0029	.0854	.0019	.0131	<.0000	5.975
#3	<.0000	.0063	<.0000	<.0000	.0124	<.0000	6.015
#4	<.0000	<.0000	.0130	.0025	.0131	<.0000	6.003
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.0003	<.0000	.0001	<.0000	.0381	<.0000	1.297
SDev	.0022	.0009	.0010	.0005	.0032	.1806	.005
%RSD	854.1	440.5	1552.	29.97	8.438	18.07	.4028
#1	<.0000	<.0000	.0006	<.0000	.0365	<.0000	1.299
#2	<.0000	<.0000	.0010	<.0000	.0365	<.0000	1.292
#3	.0020	.0009	.0001	<.0000	.0365	<.0000	1.292
#4	.0020	<.0000	<.0000	<.0000	.0429	<.0000	1.303
Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0336	<.0000	7.127	.0065	.0061	<.0000	.2192
SDev	.0008	.0022	.098	.0031	.0204	.0236	.1008
%RSD	2.220	16.56	1.380	47.75	336.7	29.52	46.00
#1	.0326	<.0000	6.995	.0022	.0133	<.0000	.1622
#2	.0334	<.0000	7.179	.0080	<.0000	<.0000	.2273
#3	.0341	<.0000	7.116	.0094	.0279	<.0000	.3576
#4	.0341	<.0000	7.220	.0065	.0036	<.0000	.1296
Elem	Si2881	Tl1908	V_2924	Zn2138			
Avge	.8442	.0988	<.0000	<.0000			
SDev	.0194	.0333	.0003	.0012			
%RSD	2.299	33.73	23.89	232.3			
#1	.8321	.1277	<.0000	<.0000			
#2	.8267	.0700	<.0000	.0003			
#3	.8483	.1277	<.0000	.0003			
#4	.8699	.0700	<.0000	<.0000			

Analysis Report

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page 1

Method: IECW Sample Name: 31639

Run Time: 01/24/02 13:12:07

Comment:

Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	.0049	<.0000	.0013	.0130	<.0000	6.016
SDev	.0015	.0081	.0678	.0008	.0004	.0000	.015
%RSD	199.5	167.7	1795.	66.63	2.747	.0000	.2446
#1	<.0000	<.0000	<.0000	.0001	.0124	<.0000	6.012
#2	<.0000	.0096	<.0000	.0019	.0131	<.0000	6.005
#3	.0004	.0074	.0296	.0019	.0131	<.0000	6.037
#4	.0004	.0096	.0574	.0013	.0131	<.0000	6.008
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.0014	<.0000	<.0000	.0046	.0369	<.0000	1.279
SDev	.0013	.0006	.0016	.0009	.0015	.3828	.013
%RSD	93.03	64.68	554.6	20.72	4.170	30.92	1.051
#1	.0020	<.0000	.0001	.0038	.0365	<.0000	1.261
#2	.0020	<.0000	<.0000	.0038	.0349	<.0000	1.285
#3	<.0000	<.0000	.0015	.0054	.0381	<.0000	1.278
#4	.0020	<.0000	<.0000	.0054	.0381	<.0000	1.292
Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0310	<.0000	6.647	.0098	.0085	<.0000	.1133
SDev	.0000	.0042	.027	.0048	.0202	.0281	.0326
%RSD	.0028	27.21	.4073	48.75	238.2	45.99	28.73
#1	.0310	<.0000	6.633	.0094	<.0000	<.0000	.0971
#2	.0310	<.0000	6.685	.0065	.0036	<.0000	.0970
#3	.0310	<.0000	6.623	.0167	.0327	<.0000	.1622
#4	.0310	<.0000	6.648	.0065	.0133	<.0000	.0970
Elem	Si2881	Tl1908	V_2924	Zn2138			
Avge	.8064	.1205	<.0000	.0001			
SDev	.0277	.1362	.0009	.0008			
%RSD	3.428	113.0	70.06	678.7			
#1	.7673	.2144	<.0000	.0003			
#2	.8105	.1277	<.0000	<.0000			
#3	.8159	<.0000	<.0000	.0012			
#4	.8321	.2143	<.0000	<.0000			

Analysis Report

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Method: IECW Sample Name: 31640

Operator: it

Run Time: 01/24/02 13:16:39

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	.0291	.0031	.0159	<.0000	8.172
SDev	.0009	.0095	.0497	.0023	.0004	.0000	.013
%RSD	46.10	492.1	170.6	74.58	2.240	.0000	.1569

#1	<.0000	.0059	.0179	<.0000	.0165	<.0000	8.177
#2	<.0000	<.0000	.0069	.0035	.0158	<.0000	8.165
#3	<.0000	.0059	<.0000	.0035	.0158	<.0000	8.188
#4	<.0000	<.0000	.1017	.0053	.0158	<.0000	8.159

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	<.0000	<.0000	<.0000	.0082	.0356	<.0000	2.180
SDev	.0018	.0016	.0015	.0008	.0038	.1436	.021
%RSD	428.8	114.2	4293.	9.998	10.67	10.58	.9405

#1	<.0000	<.0000	.0011	.0086	.0409	<.0000	2.159
#2	.0019	<.0000	<.0000	.0070	.0328	<.0000	2.194
#3	<.0000	.0001	<.0000	.0086	.0328	<.0000	2.166
#4	<.0000	<.0000	.0015	.0086	.0360	<.0000	2.201

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0265	<.0000	8.583	.0034	.0097	<.0000	.1781
SDev	.0004	.0026	.042	.0012	.0270	.0236	.1261
%RSD	1.467	25.30	.4885	34.43	277.8	38.52	70.83

#1	.0263	<.0000	8.580	.0049	.0425	<.0000	.1618
#2	.0263	<.0000	8.551	.0034	.0182	<.0000	.0641
#3	.0263	<.0000	8.559	.0020	<.0000	<.0000	.3572
#4	.0271	<.0000	8.644	.0034	<.0000	<.0000	.1293

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	1.191	.0181	<.0000	.0005
SDev	.009	.1011	.0009	.0008
%RSD	.7716	559.8	44.54	161.4

#1	1.182	<.0000	<.0000	.0011
#2	1.192	<.0000	<.0000	<.0000
#3	1.187	.1263	<.0000	.0011
#4	1.203	.0686	<.0000	.0003

Analysis Report

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Method: IECW Sample Name: ipc

Run Time: 01/24/02 13:20:32

Comment:

Mode: CONC Corr. Factor: 1

Operator: it

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	.4770	.9965	<.0000	.9665	.9785	.9637	.9881
SDev	.0016	.0099	.0919	.0076	.0029	.0026	.0046
%RSD	.3409	.9946	495.3	.7850	.2942	.2713	.4696

#1	.4759	.9911	<.0000	.9600	.9755	.9603	.9831
#2	.4764	.9968	<.0000	.9600	.9769	.9633	.9928
#3	.4794	.9878	<.0000	.9715	.9819	.9645	.9854
#4	.4764	1.010	.1163	.9745	.9798	.9665	.9913

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.9770	.9783	.9503	.9572	.9904	<.0000	.9577
SDev	.0065	.0061	.0071	.0025	.0057	.3792	.0187
%RSD	.6608	.6206	.7445	.2579	.5778	31.10	1.954

#1	.9833	.9715	.9407	.9552	.9840	<.0000	.9516
#2	.9795	.9781	.9523	.9552	.9872	<.0000	.9690
#3	.9681	.9774	.9576	.9585	.9953	<.0000	.9342
#4	.9770	.9863	.9504	.9601	.9952	<.0000	.9760

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.9731	.9309	.9899	.9915	.9829	.8810	.2148
SDev	.0024	.0171	.0088	.0148	.0161	.0354	.0672
%RSD	.2478	1.836	.8893	1.492	1.634	4.021	31.28

#1	.9717	.9077	.9913	.9904	1.001	.8296	.2230
#2	.9709	.9298	.9875	.9933	.9720	.9044	.2229
#3	.9764	.9386	.9798	.9730	.9915	.9044	.2881
#4	.9733	.9475	1.001	1.009	.9671	.8856	.1252

Elem	Si2881	Tl1908	V_2924	Zn2138
Avge	.9137	.9199	.9634	.9777
SDev	.0152	.1908	.0035	.0043
%RSD	1.669	20.74	.3642	.4378

#1	.9245	1.021	.9587	.9728
#2	.9245	.7899	.9636	.9753
#3	.8921	1.136	.9671	.9813
#4	.9137	.7322	.9643	.9813

Analysis Report

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Method: IECW Sample Name: cb

Operator: it

Run Time: 01/24/02 13:23:07

Comment:

Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1936	B_2496	Ba4934	Be3130	Ca3179
Avge	<.0000	<.0000	<.0000	.0002	.0000	.0004	<.0000
SDev	.0010	.0068	.0237	.0010	.0004	.0002	.0020
%RSD	252.5	93.50	56.87	684.4	21010.	66.67	32.93

#1	.0010	.0003	<.0000	.0017	.0002	.0007	<.0000
#2	<.0000	<.0000	<.0000	<.0000	.0002	.0004	<.0000
#3	<.0000	<.0000	<.0000	<.0000	<.0000	.0003	<.0000
#4	<.0000	<.0000	<.0000	<.0000	.0002	.0001	<.0000

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Mg2790
Avge	.0010	<.0000	.0005	.0012	.0024	<.0000	<.0000
SDev	.0013	.0013	.0016	.0004	.0024	.0756	.0100
%RSD	137.3	58.72	321.9	33.31	99.76	4.822	37.07

#1	.0021	<.0000	.0013	.0014	.0036	<.0000	<.0000
#2	.0002	<.0000	<.0000	.0014	.0004	<.0000	<.0000
#3	.0021	<.0000	<.0000	.0006	.0052	<.0000	<.0000
#4	<.0000	<.0000	.0023	.0014	.0004	<.0000	<.0000

Elem	Mn2576	Mo2020	Na5889	Ni2316	Pb2203	Sb2068	Se1960
Avge	.0004	.0144	.0019	.0098	.0024	<.0000	.0978
SDev	.0004	.0036	.0206	.0054	.0287	.0242	.1128
%RSD	115.1	25.10	1068.	55.37	1173.	43.08	115.4

#1	.0000	.0188	.0217	.0112	<.0000	<.0000	.1954
#2	.0008	.0144	<.0000	.0098	.0377	<.0000	<.0000
#3	.0008	.0100	<.0000	.0025	<.0000	<.0000	.1303
#4	.0000	.0144	.0178	.0155	.0134	<.0000	.1303

Elem	Si2881	Ti1908	V_2924	Zn2138
Avge	<.0000	.0506	<.0000	<.0000
SDev	.0161	.0595	.0007	.0000
%RSD	17.32	117.7	133.5	.1255

#1	<.0000	<.0000	.0005	<.0000
#2	<.0000	.0145	<.0000	<.0000
#3	<.0000	.1011	<.0000	<.0000
#4	<.0000	.1011	<.0000	<.0000