

Semi-Quantitation Report - Detailed (Text Only)

File Name : 002SMPL.D  
 File Path : C:\ICPCHEM\1\DATA\SQ030215\_MW#2.B\  
 Method : C:\ICPCHEM\1\METHODS\sqt\_M6.M  
 Acq Time : Feb 3 2015 11:27 am  
 Sample Name : Blank aq reg  
 Sample Type : Sample  
 Comments :  
 Prep Dilution : 1.000  
 Auto Dilution : Undiluted  
 Total Dilution : 1.000  
 Operator Name: TDBL  
 Acq Mode : Spectrum  
 Bkg File : -----  
 Bkg Rejected Masses: -----  
 Interference Correction : OFF  
 ISTD Correction: OFF  
 ISTD File : -----  
 ISTD Element 1 : -----  
 ISTD Element 2 : -----  
 ISTD Element 3 : -----  
 ISTD Element 4 : -----  
 Blank File : C:\ICPCHEM\1\DATA\SQ030215\_MW#2.B\002SMPL.D

*Subtracted from all samples /stds.*

	Mass	Conc.	Counts (CPS)	Bkg count	Time(sec)	
Li	7	0.0000 ppb	1,490.123	---	0.1	
Be	9	<0.02000 ppb	20.00064	---	0.1	
B	11	-2.200E-7 ppb	488,702.2	---	0.1	
Na	23	No Data	---	---	---	
Mg	24	3.300E-7 ppb	33,487.94	---	0.1	
Al	27	0.0000 ppb	27,095.01	---	0.1	
Si	29	-7.000E-6 ppb	262,818.3	---	0.1	
P	31	0.0000 ppb	4,370.771	---	0.1	
S	34	-2.800E-5 ppb	151,186.1	---	0.1	
Cl	35	0.007600 ppb	281,056,300	---	0.1	
K	39	-2.300E-7 ppb	2,512,308	---	0.1	
Ca	43	-9.400E-7 ppb	2,850.359	---	0.1	HYDRIDE
Sc	45	0.0000 ppb	1,540.134	---	0.1	
Ti	47	0.0000 ppb	120.0047	---	0.1	
V	51	-2.500E-7 ppb	94,281.10	---	0.1	
Cr	53	3.100E-7 ppb	32,366.28	---	0.1	OXIDE
Mn	55	0.0000 ppb	7,232.003	---	0.1	
Fe	57	-6.400E-6 ppb	25,122.12	---	0.1	
Co	59	0.0000 ppb	420.0169	---	0.1	
Ni	60	0.0000 ppb	1,010.068	---	0.1	
Cu	63	0.0000 ppb	3,790.617	---	0.1	
Zn	66	0.0000 ppb	13,336.52	---	0.1	
Ga	69	0.0000 ppb	460.0270	---	0.1	
Ge	72	0.0000 ppb	1,290.131	---	0.1	
As	75	4.300E-7 ppb	34,591.77	---	0.1	
Se	82	1.400E-7 ppb	570.0290	---	0.1	
Br	79	7.100E-7 ppb	8,042.661	---	0.1	
Rb	85	0.0000 ppb	360.0191	---	0.1	
Sr	88	0.0000 ppb	1,800.202	---	0.1	
Y	89	<9.700E-4 ppb	30.00102	---	0.1	
Zr	90	0.0000 ppb	500.0254	---	0.1	
Nb	93	<1.200E-3 ppb	10.00034	---	0.1	
Mo	95	0.0000 ppb	800.0629	---	0.1	
Ru	101	<6.300E-3 ppb	20.00069	---	0.1	
Rh	103	0.0000 ppb	50.00172	---	0.1	

	Mass	Conc.	Counts (CPS)	Bkg count	Time (sec)	
Pd	105	0.0000 ppb	5,131.106	---	0.1	
Ag	107	0.0000 ppb	11,214.86	---	0.1	
Cd	111	0.0000 ppb	70.00241	---	0.1	
In	115	0.0000 ppb	860.0541	---	0.1	
Sn	118	0.0000 ppb	4,080.724	---	0.1	
Sb	121	-5.600E-6 ppb	476,428.1	---	0.1	
Te	125	0.0000 ppb	110.0039	---	0.1	
I	127	0.0000 ppb	3,800.655	---	0.1	
Cs	133	0.0000 ppb	70.00246	---	0.1	
Ba	137	0.0000 ppb	1,450.135	---	0.1	OXIDE
La	139	0.0000 ppb	150.0074	---	0.1	OXIDE
Ce	140	0.0000 ppb	120.0049	---	0.1	
Pr	141	0.0000 ppb	50.00176	---	0.1	
Nd	146	<3.000E-3 ppb	0.0000000	---	0.1	
Sm	147	<3.500E-3 ppb	30.00177	---	0.1	
Eu	153	<1.000E-3 ppb	40.00143	---	0.1	
Gd	157	<3.200E-3 ppb	40.00143	---	0.1	
Tb	159	<5.300E-4 ppb	30.00107	---	0.1	
Dy	163	<2.200E-3 ppb	0.0000000	---	0.1	
Ho	165	<5.500E-4 ppb	20.00072	---	0.1	
Er	166	<1.600E-3 ppb	30.00108	---	0.1	
Tm	169	0.0000 ppb	50.00252	---	0.1	
Yb	172	<2.400E-3 ppb	30.00108	---	0.1	
Lu	175	<5.700E-4 ppb	30.00108	---	0.1	
Hf	178	0.0000 ppb	50.00181	---	0.1	
Ta	181	0.0000 ppb	60.00217	---	0.1	
W	182	0.0000 ppb	130.0047	---	0.1	
Re	185	0.0000 ppb	26,907.28	---	0.1	
Os	189	0.0000 ppb	70.00255	---	0.1	
Ir	193	<1.300E-3 ppb	30.00109	---	0.1	
Pt	195	3.200E-7 ppb	100,069.3	---	0.1	
Au	197	0.0000 ppb	290.0142	---	0.1	
Hg	202	0.0000 ppb	2,140.252	---	0.1	
Tl	205	0.0000 ppb	3,630.598	---	0.1	
Pb	208	0.0000 ppb	4,400.898	---	0.1	
Bi	209	0.0000 ppb	6,842.167	---	0.1	
Th	232	0.0000 ppb	1,130.088	---	0.1	
U	238	0.0000 ppb	2,020.236	---	0.1	

Semi-Quantitation Report - Detailed (Text Only)

File Name : 003SMPL.D  
 File Path : C:\ICPCHEM\1\DATA\SQ030215\_MW#2.B\  
 Method : C:\ICPCHEM\1\METHODS\sqt\_M6.M  
 Acq Time : Feb 3 2015 11:31 am  
 Sample Name : M6 x 1000  
 Sample Type : Sample  
 Comments :  
 Prep Dilution : 1.000  
 Auto Dilution : Undiluted  
 Total Dilution : 1.000  
 Operator Name: TDBL  
 Acq Mode : Spectrum  
 Bkg File : -----  
 Bkg Rejected Masses: -----  
 Interference Correction : OFF  
 ISTD Correction: OFF  
 ISTD File : -----  
 ISTD Element 1 : -----  
 ISTD Element 2 : -----  
 ISTD Element 3 : -----  
 ISTD Element 4 : -----  
 Blank File : C:\ICPCHEM\1\DATA\SQ030215\_MW#2.B\002SMPL.D

	Mass	Conc.	Counts(CPS)	Bkg count	Time(sec)	
Li	7	9.700 ppb	58,864.57	---	0.1	
Be	9	100.0 ppb	240,116.8	---	0.1	
B	11	2.300 ppb	632,026.4	---	0.1	
Na	23	No Data	---	---	---	
Mg	24	7.400 ppb	128,330.3	---	0.1	
Al	27	9.300 ppb	393,755.6	---	0.1	
Si	29	13.00 ppb	283,363.5	---	0.1	
P	31	0.1200 ppb	5,071.054	---	0.1	
S	34	22.00 ppb	162,170.1	---	0.1	
Cl	35	57,000 ppb	302,784,400	---	0.1	
K	39	1.900 ppb	3,102,804	---	0.1	
Ca	43	920.0 ppb	37,568.21	---	0.1	
Sc	45	0.01800 ppb	1,920.197	---	0.1	
Ti	47	0.08800 ppb	290.0149	---	0.1	DCHARGE
V	51	7.200 ppb	340,882.5	---	0.1	OXIDE
Cr	53	4.700 ppb	61,428.25	---	0.1	OXIDE
Mn	55	9.800 ppb	305,081.4	---	0.1	
Fe	57	71.00 ppb	89,128.55	---	0.1	
Co	59	10.00 ppb	256,740.6	---	0.1	
Ni	60	9.900 ppb	72,196.98	---	0.1	
Cu	63	9.700 ppb	146,910.2	---	0.1	
Zn	66	97.00 ppb	470,022.2	---	0.1	
Ga	69	10.00 ppb	223,902.3	---	0.1	
Ge	72	0.03700 ppb	1,580.139	---	0.1	
As	75	92.00 ppb	490,693.7	---	0.1	
Se	82	97.00 ppb	27,977.99	---	0.1	
Br	79	-2.200 ppb	7,132.011	---	0.1	
Rb	85	10.00 ppb	306,968.4	---	0.1	
Sr	88	10.00 ppb	410,274.4	---	0.1	
Y	89	0.002900 ppb	150.0058	---	0.1	
Zr	90	-0.002500 ppb	440.0226	---	0.1	
Nb	93	0.001400 ppb	60.00274	---	0.1	
Mo	95	9.900 ppb	68,574.35	---	0.1	
Ru	101	<6.300E-3 ppb	10.00034	---	0.1	
Rh	103	4.400E-4 ppb	70.00309	---	0.1	

	Mass	Conc.	Counts (CPS)	Bkg count	Time (sec)	
Pd	105	-0.05600 ppb	4,590.920	---	0.1	
Ag	107	10 9.400 ppb	196,942.6	---	0.1	
Cd	111	10.00 ppb	45,955.04	---	0.1	
In	115	-0.002700 ppb	730.0421	---	0.1	HYDRIDE
Sn	118	0.02600 ppb	4,400.848	---	0.1	
Sb	121	-5.600 ppb	395,642.2	---	0.1	
Te	125	10 9.900 ppb	8,212.708	---	0.1	
I	127	0.005700 ppb	3,850.698	---	0.1	
Cs	133	0.002700 ppb	250.0109	---	0.1	
Ba	137	10 9.800 ppb	89,667.62	---	0.1	
La	139	0.006500 ppb	700.0458	---	0.1	OXIDE
Ce	140	0.01600 ppb	1,410.133	---	0.1	
Pr	141	0.0000 ppb	50.00176	---	0.1	
Nd	146	<3.000E-3 ppb	40.00142	---	0.1	
Sm	147	0.003500 ppb	50.00177	---	0.1	ARGIDE
Eu	153	0.003200 ppb	160.0071	---	0.1	OXIDE
Gd	157	0.003200 ppb	50.00179	---	0.1	
Tb	159	6.400E-4 ppb	60.00357	---	0.1	
Dy	163	<2.200E-3 ppb	30.00108	---	0.1	
Ho	165	6.600E-4 ppb	60.00430	---	0.1	
Er	166	<1.600E-3 ppb	30.00108	---	0.1	
Tm	169	<0.0000 ppb	20.00072	---	0.1	
Yb	172	<2.400E-3 ppb	40.00145	---	0.1	
Lu	175	8.000E-4 ppb	70.00253	---	0.1	
Hf	178	0.001200 ppb	80.00362	---	0.1	ARGIDE
Ta	181	<-1.300E-4 ppb	40.00145	---	0.1	
W	182	0.002500 ppb	180.0073	---	0.1	
Re	185	-0.06200 ppb	25,164.23	---	0.1	
Os	189	0.001400 ppb	90.00327	---	0.1	
Ir	193	0.002800 ppb	110.0040	---	0.1	
Pt	195	-0.1500 ppb	98,025.34	---	0.1	
Au	197	-0.004100 ppb	200.0087	---	0.1	
Hg	202	0.02200 ppb	2,280.287	---	0.1	
Tl	205	10 9.900 ppb	469,062.1	---	0.1	
Pb	208	10 9.900 ppb	358,191.2	---	0.1	
Bi	209	10 9.900 ppb	566,318.9	---	0.1	
Th	232	0.005000 ppb	1,510.143	---	0.1	
U	238	10 10.00 ppb	770,880.9	---	0.1	

## Semi-Quantitation Report - Detailed (Text Only)

File Name : 004SMPL.D  
 File Path : C:\ICPCHEM\1\DATA\SQ030215\_MW#2.B\  
 Method : C:\ICPCHEM\1\METHODS\sqt\_M6.M  
 Acq Time : Feb 3 2015 11:36 am  
 Sample Name : M6 x 100  
 Sample Type : Sample  
 Comments :  
 Prep Dilution : 1.000  
 Auto Dilution : Undiluted  
 Total Dilution : 1.000  
 Operator Name: TDBL  
 Acq Mode : Spectrum  
 Bkg File : -----  
 Bkg Rejected Masses: -----  
 Interference Correction : OFF  
 ISTD Correction: OFF  
 ISTD File : -----  
 ISTD Element 1 : -----  
 ISTD Element 2 : -----  
 ISTD Element 3 : -----  
 ISTD Element 4 : -----  
 Blank File : C:\ICPCHEM\1\DATA\SQ030215\_MW#2.B\002SMPL.D

	Mass	Conc.	Counts (CPS)	Bkg count	Time (sec)	
Li	7	100.0 ppb	603,628.1	---	0.1	
Be	9	1,000 ppb	2,525,687	---	0.1	
B	11	21.00 ppb	1,820,133	---	0.1	
Na	23	No Data	---	---	---	
Mg	24	65.00 ppb	869,023.3	---	0.1	
Al	27	28.00 ppb	1,143,792	---	0.1	
Si	29	26.00 ppb	301,671.9	---	0.1	
P	31	0.2800 ppb	5,951.380	---	0.1	
S	34	53.00 ppb	176,850.1	---	0.1	
Cl	35	130,000 ppb	332,946,000	---	0.1	
K	39	8.500 ppb	5,141,797	---	0.1	
Ca	43	8,400 ppb	322,172.4	---	0.1	
Sc	45	0.02600 ppb	2,090.218	---	0.1	
Ti	47	0.05700 ppb	230.0103	---	0.1	DCHARGE
V	51	63.00 ppb	2,263,876	---	0.1	OXIDE
Cr	53	38.00 ppb	266,440.6	---	0.1	OXIDE
Mn	55	89.00 ppb	2,725,634	---	0.1	
Fe	57	640.0 ppb	596,418.2	---	0.1	
Co	59	88.00 ppb	2,281,581	---	0.1	
Ni	60	74.00 ppb	541,859.8	---	0.1	
Cu	63	85.00 ppb	1,256,424	---	0.1	
Zn	66	840.0 ppb	4,005,446	---	0.1	
Ga	69	89.00 ppb	1,999,316	---	0.1	
Ge	72	-4.200E-6 ppb	1,290.099	---	0.1	HYDRIDE
As	75	820.0 ppb	4,090,388	---	0.1	
Se	82	910.0 ppb	256,453.4	---	0.1	
Br	79	380.0 ppb	167,382.7	---	0.1	
Rb	85	87.00 ppb	2,700,888	---	0.1	
Sr	88	300.0 ppb	12,554,730	---	0.1	
Y	89	0.008300 ppb	430.0290	---	0.1	
Zr	90	-8.100E-4 ppb	480.0281	---	0.1	
Nb	93	0.004300 ppb	180.0075	---	0.1	
Mo	95	90.00 ppb	623,551.1	---	0.1	
Ru	101	<6.300E-3 ppb	20.00069	---	0.1	
Rh	103	0.006900 ppb	360.0158	---	0.1	

	Mass	Conc.	Counts (CPS)	Bkg count	Time (sec)	
Pd	105	0.09500 ppb	6,061.531	---	0.1	
Ag	107	67.00 ppb	1,349,235	---	0.1	
Cd	111	87.00 ppb	402,423.8	---	0.1	
In	115	0.010000 ppb	1,360.118	---	0.1	HYDRIDE
Sn	118	0.009900 ppb	4,200.792	---	0.1	
Sb	121	-9.100 ppb	345,416.6	---	0.1	
Te	125	92.00 ppb	75,984.84	---	0.1	
I	127	0.02200 ppb	3,990.717	---	0.1	
Cs	133	0.010000 ppb	770.0419	---	0.1	
Ba	137	65.00 ppb	590,696.6	---	0.1	
La	139	0.001700 ppb	300.0148	---	0.1	OXIDE
Ce	140	8.700E-4 ppb	190.0081	---	0.1	OXIDE
Pr	141	<0.0000 ppb	10.00035	---	0.1	
Nd	146	0.007800 ppb	130.0046	---	0.1	OXIDE
Sm	147	0.007800 ppb	110.0053	---	0.1	ARGIDE
Eu	153	0.01400 ppb	720.0491	---	0.1	OXIDE
Gd	157	0.003800 ppb	60.00286	---	0.1	
Tb	159	6.400E-4 ppb	60.00286	---	0.1	
Dy	163	0.003500 ppb	80.00430	---	0.1	ARGIDE
Ho	165	7.800E-4 ppb	70.00322	---	0.1	
Er	166	0.002600 ppb	80.00287	---	0.1	ARGIDE
Tm	169	<0.0000 ppb	40.00216	---	0.1	
Yb	172	<2.400E-3 ppb	20.00072	---	0.1	
Lu	175	0.001000 ppb	90.00397	---	0.1	ARGIDE
Hf	178	0.001200 ppb	80.00290	---	0.1	ARGIDE
Ta	181	<-1.300E-4 ppb	30.00109	---	0.1	
W	182	0.007000 ppb	270.0120	---	0.1	
Re	185	-0.07100 ppb	24,913.60	---	0.1	
Os	189	-7.500E-4 ppb	60.00292	---	0.1	
Ir	193	0.002600 ppb	100.0036	---	0.1	
Pt	195	-0.5000 ppb	92,939.07	---	0.1	
Au	197	0.02100 ppb	780.0513	---	0.1	
Hg	202	0.1300 ppb	2,960.424	---	0.1	
Tl	205	86.00 ppb	4,077,817	---	0.1	
Pb	208	84.00 ppb	3,045,880	---	0.1	
Bi	209	85.00 ppb	4,827,510	---	0.1	
Th	232	3.900E-4 ppb	1,160.100	---	0.1	
U	238	83.00 ppb	6,412,862	---	0.1	

Semi-Quantitation Report - Detailed (Text Only)

File Name : 005SMPL.D  
 File Path : C:\ICPCHEM\1\DATA\SQ030215\_MW#2.B\  
 Method : C:\ICPCHEM\1\METHODS\sqt\_M6.M  
 Acq Time : Feb 3 2015 11:40 am  
 Sample Name : R  
 Sample Type : Sample  
 Comments :  
 Prep Dilution : 1.000  
 Auto Dilution : Undiluted  
 Total Dilution : 1.000  
 Operator Name: TDBL  
 Acq Mode : Spectrum  
 Bkg File : -----  
 Bkg Rejected Masses: -----  
 Interference Correction : OFF  
 ISTD Correction: OFF  
 ISTD File : -----  
 ISTD Element 1 : -----  
 ISTD Element 2 : -----  
 ISTD Element 3 : -----  
 ISTD Element 4 : -----  
 Blank File : C:\ICPCHEM\1\DATA\SQ030215\_MW#2.B\002SMPL.D

*Blank 2% aqua regia.*

Mass	Conc.	Counts (CPS)	Bkg count	Time (sec)	
Li 7	-0.02900 ppb	1,320.099	---	0.1	
Be 9	0.8000 ppb	1,940.262	---	0.1	
B 11	5.800 ppb	857,911.7	---	0.1	
Na 23	No Data	---	---	---	
Mg 24	-2.300 ppb	4,360.786	---	0.1	
Al 27	0.5400 ppb	48,388.91	---	0.1	
Si 29	110.0 ppb	432,989.7	---	0.1	
P 31	0.9300 ppb	9,623.359	---	0.1	
S 34	150.0 ppb	224,510.2	---	0.1	
Cl 35	-730,000 ppb	8,104,869	---	0.1	
K 39	3.000 ppb	3,453,069	---	0.1	
Ca 43	7.400 ppb	3,130.434	---	0.1	HYDRIDE
Sc 45	0.05500 ppb	2,680.340	---	0.1	
Ti 47	0.0000 ppb	120.0047	---	0.1	
V 51	-2.600 ppb	5,161.131	---	0.1	OXIDE
Cr 53	-5.100 ppb	1,230.099	---	0.1	OXIDE
Mn 55	0.008200 ppb	7,482.249	---	0.1	
Fe 57	8.300 ppb	32,496.65	---	0.1	
Co 59	0.04500 ppb	1,580.144	---	0.1	
Ni 60	-0.06000 ppb	580.0389	---	0.1	
Cu 63	-0.1100 ppb	2,250.258	---	0.1	
Zn 66	-1.200 ppb	7,642.353	---	0.1	
Ga 69	0.04000 ppb	1,360.138	---	0.1	
Ge 72	-0.1600 ppb	140.0060	---	0.1	
As 75	-4.300 ppb	13,236.73	---	0.1	
Se 82	0.7800 ppb	790.0485	---	0.1	
Br 79	-9.200 ppb	4,250.813	---	0.1	
Rb 85	0.03600 ppb	1,480.154	---	0.1	
Sr 88	0.1300 ppb	7,322.899	---	0.1	
Y 89	9.700E-4 ppb	50.00171	---	0.1	
Zr 90	0.008000 ppb	700.0470	---	0.1	
Nb 93	0.001900 ppb	80.00411	---	0.1	
Mo 95	0.9400 ppb	7,292.182	---	0.1	
Ru 101	<6.300E-3 ppb	20.00069	---	0.1	
Rh 103	<0.0000 ppb	30.00103	---	0.1	

	Mass	Conc.	Counts (CPS)	Bkg count	Time(sec)
Pd	105	<-0.5200 ppb	40.00138	---	0.1
Ag	107	-0.2400 ppb	6,671.756	---	0.1
Cd	111	0.05400 ppb	320.0208	---	0.1
In	115	-0.01600 ppb	80.00347	---	0.1
Sn	118	-0.2100 ppb	1,590.152	---	0.1
Sb	121	-34.00 ppb	1,220.089	---	0.1
Te	125	0.04800 ppb	150.0067	---	0.1
I	127	-0.2800 ppb	1,440.130	---	0.1
Cs	133	<-3.100E-4 ppb	10.00035	---	0.1
Ba	137	-0.1200 ppb	430.0221	---	0.1
La	139	-9.600E-4 ppb	70.00247	---	0.1
Ce	140	-3.800E-4 ppb	90.00388	---	0.1
Pr	141	3.000E-4 ppb	80.00282	---	0.1
Nd	146	<3.000E-3 ppb	30.00106	---	0.1
Sm	147	<3.500E-3 ppb	10.00035	---	0.1
Eu	153	<1.000E-3 ppb	20.00142	---	0.1
Gd	157	<3.200E-3 ppb	40.00143	---	0.1
Tb	159	<5.300E-4 ppb	30.00107	---	0.1
Dy	163	0.003500 ppb	80.00287	---	0.1
Ho	165	7.800E-4 ppb	70.00251	---	0.1
Er	166	0.002000 ppb	60.00286	---	0.1
Tm	169	3.300E-4 ppb	80.00289	---	0.1
Yb	172	<2.400E-3 ppb	10.00036	---	0.1
Lu	175	5.700E-4 ppb	50.00181	---	0.1
Hf	178	0.001600 ppb	90.00398	---	0.1
Ta	181	0.0000 ppb	60.00217	---	0.1
W	182	5.000E-4 ppb	140.0080	---	0.1
Re	185	-0.9600 ppb	70.00327	---	0.1
Os	189	-0.001500 ppb	50.00182	---	0.1
Ir	193	0.005200 ppb	200.0080	---	0.1
Pt	195	-7.000 ppb	110.0055	---	0.1
Au	197	-0.006800 ppb	140.0051	---	0.1
Hg	202	-0.1900 ppb	1,030.100	---	0.1
Tl	205	0.3400 ppb	19,635.27	---	0.1
Pb	208	-0.05300 ppb	2,520.354	---	0.1
Bi	209	0.02300 ppb	8,163.027	---	0.1
Th	232	5.200E-4 ppb	1,170.097	---	0.1
U	238	0.07700 ppb	7,972.928	---	0.1



Semi-Quantitation Report - Detailed (Text Only)

File Name : 006SMPL.D  
 File Path : C:\ICPCHEM\1\DATA\SQ030215\_MW#2.B\  
 Method : C:\ICPCHEM\1\METHODS\sqt\_M6.M  
 Acq Time : Feb 3 2015 11:44 am  
 Sample Name : ~~Sample Blank~~ (x 2 diln) **A**  
 Sample Type : Sample  
 Comments :  
 Prep Dilution : 1.000  
 Auto Dilution : Undiluted  
 Total Dilution : 1.000  
 Operator Name: TDBL  
 Acq Mode : Spectrum  
 Bkg File : -----  
 Bkg Rejected Masses: -----  
 Interference Correction : OFF  
 ISTD Correction: OFF  
 ISTD File : -----  
 ISTD Element 1 : -----  
 ISTD Element 2 : -----  
 ISTD Element 3 : -----  
 ISTD Element 4 : -----  
 Blank File : C:\ICPCHEM\1\DATA\SQ030215\_MW#2.B\002SMPL.D

Mass	Conc.	Counts (CPS)	Bkg count	Time (sec)	
Li 7	4.300 ppb	26,844.48	---	0.1	
Be 9	0.09500 ppb	230.0100	---	0.1	
B 11	83.00 ppb	5,762,408	---	0.1	
<del>Na 23</del>	No Data	---	---	---	
Mg 24	8.600 ppb	144,090.1	---	0.1	
Al 27	110.0 ppb	4,589,265	---	0.1	
<del>Si 29</del>	610.0 ppb	1,172,886	---	0.1	
<del>P 31</del>	100.0 ppb	588,786.6	---	0.1	
<del>S 34</del>	53.00 ppb	176,760.0	---	0.1	
<del>Cl 35</del>	1,000,000 ppb	666,977,800	---	0.1	
K 39	5.600 ppb	4,251,031	---	0.1	
(Ca 43	190.0 ppb	10,123.76	---	0.1	OXIDE
Sc 45	0.3900 ppb	9,763.551	---	0.1	
Ti 47	7.000 ppb	13,656.03	---	0.1	
V 51	6.000 ppb	299,242.8	---	0.1	OXIDE
* { Cr 53 *	310.0 ppb	1,976,618	---	0.1	OXIDE
Mn 55	1.100 ppb	40,306.10	---	0.1	
Fe 57 *	2,100 ppb	1,967,356	---	0.1	
Co 59	0.1400 ppb	4,260.735	---	0.1	
Ni 60 *	13.00 ppb	96,918.76	---	0.1	
Cu 63	5.500 ppb	83,929.89	---	0.1	
Zn 66	11.00 ppb	66,210.48	---	0.1	
Ga 69	1.000 ppb	23,109.18	---	0.1	
Ge 72	0.2000 ppb	2,890.404	---	0.1	
As 75	7.700 ppb	72,600.66	---	0.1	
<del>Se 82</del>	0.5300 ppb	720.0510	---	0.1	
<del>Br 79</del>	17.00 ppb	15,138.35	---	0.1	
Rb 85	0.06100 ppb	2,260.237	---	0.1	
Sr 88	0.5600 ppb	25,152.71	---	0.1	
Y 89	0.04700 ppb	2,430.274	---	0.1	
Zr 90	21.00 ppb	533,912.6	---	0.1	
Nb 93	0.3700 ppb	15,508.75	---	0.1	
Mo 95	120.0 ppb	851,535.8	---	0.1	
Ru 101	<6.300E-3 ppb	30.00172	---	0.1	
Rh 103	0.01500 ppb	740.0428	---	0.1	

	Mass	Conc.	Counts (CPS)	Bkg count	Time (sec)	
Pd	105	-0.4700 ppb	580.0323	---	0.1	
Ag	107	0.9800 ppb	30,594.34	---	0.1	
Cd	111	0.1000 ppb	550.0259	---	0.1	OXIDE
In	115	-0.005600 ppb	590.0363	---	0.1	
Sn	118	2.500 ppb	34,573.49	---	0.1	
(Sb	121	35.00 ppb)	987,098.1	---	0.1	
Te	125	-0.02500 ppb	90.00314	---	0.1	OXIDE
I	127	-0.003500 ppb	3,770.688	---	0.1	
Cs	133	63.00 ppb	4,225,219	---	0.1	
Ba	137	22.00 ppb	207,550.7	---	0.1	
La	139	0.03200 ppb	2,840.405	---	0.1	OXIDE
Ce	140	0.2600 ppb	21,507.35	---	0.1	
Pr	141	0.010000 ppb	1,040.085	---	0.1	
Nd	146	0.04900 ppb	810.0544	---	0.1	
Sm	147	0.006400 ppb	90.00532	---	0.1	
Eu	153	0.008000 ppb	400.0185	---	0.1	
Gd	157	0.010000 ppb	160.0058	---	0.1	
Tb	159	0.002000 ppb	190.0083	---	0.1	
Dy	163	0.010000 ppb	230.0097	---	0.1	ARGIDE
Ho	165	0.001500 ppb	140.0050	---	0.1	
Er	166	0.007600 ppb	230.0112	---	0.1	
Tm	169	5.500E-4 ppb	100.0065	---	0.1	
Yb	172	0.007900 ppb	160.0065	---	0.1	
Lu	175	0.001900 ppb	170.0090	---	0.1	
Hf	178	0.4500 ppb	11,084.84	---	0.1	
Ta	181	0.01400 ppb	1,190.093	---	0.1	
W	182	4.600 ppb	91,013.17	---	0.1	
Re	185	-0.9600 ppb	70.00254	---	0.1	HYDRIDE
Os	189	<-1.500E-3 ppb	30.00109	---	0.1	
Ir	193	0.005000 ppb	190.0076	---	0.1	
Pt	195	-6.900 ppb	1,280.108	---	0.1	
Au	197	0.001300 ppb	320.0131	---	0.1	
Hg	202	-0.001700 ppb	2,130.249	---	0.1	
Tl	205	0.05300 ppb	6,151.615	---	0.1	
Pb	208	0.8200 ppb	34,084.46	---	0.1	
Bi	209	0.1000 ppb	12,967.82	---	0.1	
Th	232	0.02100 ppb	2,780.391	---	0.1	
U	238	0.02600 ppb	4,090.790	---	0.1	

## Semi-Quantitation Report - Detailed (Text Only)

File Name : 007SMPL.D  
 File Path : C:\ICPCHEM\1\DATA\SQ030215\_MW#2.B\  
 Method : C:\ICPCHEM\1\METHODS\sqt\_M6.M  
 Acq Time : Feb 3 2015 11:48 am  
 Sample Name : Sample (x 2 diln) B  
 Sample Type : Sample  
 Comments :  
 Prep Dilution : 1.000  
 Auto Dilution : Undiluted  
 Total Dilution : 1.000  
 Operator Name: TDBL  
 Acq Mode : Spectrum  
 Bkg File : -----  
 Bkg Rejected Masses: -----  
 Interference Correction : OFF  
 ISTD Correction: OFF  
 ISTD File : -----  
 ISTD Element 1 : -----  
 ISTD Element 2 : -----  
 ISTD Element 3 : -----  
 ISTD Element 4 : -----  
 Blank File : C:\ICPCHEM\1\DATA\SQ030215\_MW#2.B\002SMPL.D

Mass	Conc.	Counts (CPS)	Bkg count	Time (sec)	
Li 7	4.800 ppb	29,579.21	---	0.1	
Be 9	0.02900 ppb	70.00226	---	0.1	
B 11	96.00 ppb	6,563,406	---	0.1	
<del>Na 23</del>	No Data	---	---	---	
Mg 24	1.700 ppb	55,101.73	---	0.1	
Al 27	76.00 ppb	3,044,081	---	0.1	
<del>Si 28</del>	520.0 ppb	1,038,408	---	0.1	
<del>P 31</del>	1.600 ppb	13,536.35	---	0.1	
<del>S 34</del>	81.00 ppb	190,296.6	---	0.1	
Cl 35	1,100,000 ppb	708,669,100	---	0.1	
K 39	2.900 ppb	3,406,919	---	0.1	
(Ca 43	160.0 ppb •)	8,882.906	---	0.1	OXIDE
Sc 45	0.3900 ppb	9,633.514	---	0.1	
Ti 47	2.400 ppb	4,750.914	---	0.1	
V 51	2.600 ppb	184,454.2	---	0.1	OXIDE
Cr 53	<u>5.400</u> ppb •	65,587.04	---	0.1	OXIDE
Mn 55	0.05900 ppb •	9,053.158	---	0.1	
Fe 57	<u>6.600</u> ppb •	31,023.58	---	0.1	
Co 59	0.001500 ppb	460.0315	---	0.1	
Ni 60	<u>0.2000</u> ppb	2,470.299	---	0.1	
Cu 63	0.5700 ppb	12,185.60	---	0.1	
Zn 66	3.600 ppb	30,161.63	---	0.1	
Ga 69	0.1200 ppb	3,320.495	---	0.1	
Ge 72	0.2500 ppb	3,240.488	---	0.1	
As 75	7.200 ppb	69,907.68	---	0.1	
<del>Se 82</del>	0.3900 ppb	680.0449	---	0.1	
<del>Br 79</del>	8.700 ppb	11,594.97	---	0.1	
Rb 85	0.02800 ppb	1,230.090	---	0.1	
Sr 88	0.1900 ppb	9,633.513	---	0.1	
Y 89	0.02500 ppb	1,290.104	---	0.1	
Zr 90	2.800 ppb	68,835.91	---	0.1	
Nb 93	0.007200 ppb	300.0130	---	0.1	
Mo 95	0.8200 ppb	6,441.658	---	0.1	
Ru 101	<6.300E-3 ppb	40.00137	---	0.1	
Rh 103	0.01700 ppb	830.0537	---	0.1	

	Mass	Conc.	Counts (CPS)	Bkg count	Time (sec)	
Pd	105	-0.4600 ppb	700.0482	---	0.1	
Ag	107	0.1600 ppb	14,447.96	---	0.1	
Cd	111	0.02600 ppb	190.0100	---	0.1	
In	115	-0.01200 ppb	320.0131	---	0.1	
Sn	118	0.3200 ppb	8,022.505	---	0.1	
Sb	121	6.600 ppb	571,640.1	---	0.1	
Te	125	0.07300 ppb	170.0101	---	0.1	
I	127	0.1200 ppb	4,920.986	---	0.1	
Cs	133	44.00 ppb	2,915,681	---	0.1	
Ba	137	2.500 ppb	23,831.14	---	0.1	
La	139	0.01700 ppb	1,590.159	---	0.1	OXIDE
Ce	140	0.04200 ppb	3,490.601	---	0.1	
Pr	141	0.003300 ppb	380.0161	---	0.1	
Nd	146	0.01800 ppb	310.0167	---	0.1	
Sm	147	0.004200 ppb	60.00212	---	0.1	
Eu	153	0.001800 ppb	90.00320	---	0.1	OXIDE
Gd	157	0.006400 ppb	100.0050	---	0.1	
Tb	159	0.001200 ppb	120.0050	---	0.1	
Dy	163	0.003500 ppb	80.00287	---	0.1	ARGIDE
Ho	165	0.001200 ppb	110.0040	---	0.1	
Er	166	0.006000 ppb	180.0079	---	0.1	
Tm	169	2.200E-4 ppb	70.00253	---	0.1	
Yb	172	0.008400 ppb	170.0083	---	0.1	
Lu	175	9.200E-4 ppb	80.00289	---	0.1	
Hf	178	0.05100 ppb	1,310.098	---	0.1	
Ta	181	-1.300E-4 ppb	50.00181	---	0.1	
W	182	0.08700 ppb	1,880.223	---	0.1	
Re	185	-0.9600 ppb	80.00291	---	0.1	
Os	189	-0.001500 ppb	50.00182	---	0.1	
Ir	193	0.003400 ppb	130.0077	---	0.1	
Pt	195	-6.900 ppb	1,340.124	---	0.1	
Au	197	-0.006300 ppb	150.0054	---	0.1	
Hg	202	-0.1500 ppb	1,280.107	---	0.1	
Tl	205	-0.005800 ppb	3,360.546	---	0.1	
Pb	208	0.02900 ppb	5,461.296	---	0.1	
Bi	209	-0.07300 ppb	2,760.377	---	0.1	
Th	232	0.005100 ppb	1,520.138	---	0.1	
U	238	0.01100 ppb	2,940.427	---	0.1	

Semi-Quantitation Report - Detailed (Text Only)

File Name : 008SMPL.D  
 File Path : C:\ICPCHEM\1\DATA\SQ030215\_MW#2.B\  
 Method : C:\ICPCHEM\1\METHODS\sqt\_M6.M  
 Acq Time : Feb 3 2015 11:53 am  
 Sample Name : R  
 Sample Type : Sample  
 Comments :  
 Prep Dilution : 1.000  
 Auto Dilution : Undiluted  
 Total Dilution : 1.000  
 Operator Name: TDBL  
 Acq Mode : Spectrum  
 Bkg File : -----  
 Bkg Rejected Masses: -----  
 Interference Correction : OFF  
 ISTD Correction: OFF  
 ISTD File : -----  
 ISTD Element 1 : -----  
 ISTD Element 2 : -----  
 ISTD Element 3 : -----  
 ISTD Element 4 : -----  
 Blank File : C:\ICPCHEM\1\DATA\SQ030215\_MW#2.B\002SMPL.D

	Mass	Conc.	Counts (CPS)	Bkg count	Time (sec)	
Li	7	-0.1300 ppb	750.0491	---	0.1	
Be	9	0.08300 ppb	200.0090	---	0.1	
B	11	8.600 ppb	1,035,333	---	0.1	
Na	23	No Data	---	---	---	
Mg	24	-2.000 ppb	7,382.148	---	0.1	
Al	27	0.7100 ppb	55,151.71	---	0.1	
Si	29	110.0 ppb	435,765.6	---	0.1	
P	31	1.400 ppb	12,295.51	---	0.1	
S	34	170.0 ppb	235,654.8	---	0.1	
Cl	35	-710,000 ppb	14,951,900	---	0.1	
K	39	3.900 ppb	3,720,719	---	0.1	
Ca	43	88.00 ppb	6,171.529	---	0.1	HYDRIDE
Sc	45	0.07300 ppb	3,060.398	---	0.1	
Ti	47	-0.005200 ppb	110.0037	---	0.1	OXIDE
V	51	-2.500 ppb	8,222.568	---	0.1	OXIDE
Cr	53	-4.700 ppb	3,220.463	---	0.1	OXIDE
Mn	55	-0.02300 ppb	6,531.648	---	0.1	
Fe	57	7.400 ppb	31,724.83	---	0.1	
Co	59	-0.01100 ppb	140.0047	---	0.1	
Ni	60	-0.08800 ppb	380.0215	---	0.1	OXIDE
Cu	63	-0.1300 ppb	1,900.186	---	0.1	
Zn	66	-1.100 ppb	7,972.444	---	0.1	
Ga	69	-0.01700 ppb	90.00369	---	0.1	
Ge	72	-0.1500 ppb	170.0057	---	0.1	
As	75	-5.500 ppb	7,352.112	---	0.1	
Se	82	-1.100 ppb	250.0133	---	0.1	ARGIDE
Br	79	-14.00 ppb	2,470.300	---	0.1	ARGIDE
Rb	85	0.001900 ppb	420.0245	---	0.1	
Sr	88	-0.02500 ppb	790.0467	---	0.1	
Y	89	0.001500 ppb	80.00341	---	0.1	
Zr	90	0.2000 ppb	5,471.228	---	0.1	
Nb	93	0.002100 ppb	90.00377	---	0.1	
Mo	95	0.1200 ppb	1,670.153	---	0.1	
Ru	101	<6.300E-3 ppb	40.00137	---	0.1	
Rh	103	<0.0000 ppb	10.00034	---	0.1	

	Mass	Conc.	Counts (CPS)	Bkg count	Time (sec)
Pd	105	-0.5200 ppb	140.0069	---	0.1
Ag	107	-0.4700 ppb	2,030.230	---	0.1
Cd	111	-0.004400 ppb	50.00242	---	0.1
In	115	-0.01600 ppb	80.00278	---	0.1
Sn	118	-0.2200 ppb	1,470.147	---	0.1
Sb	121	-34.00 ppb	2,170.268	---	0.1
Te	125	-0.06100 ppb	60.00279	---	0.1
I	127	-0.2600 ppb	1,590.151	---	0.1
Cs	133	0.01200 ppb	880.0676	---	0.1
Ba	137	-0.1500 ppb	150.0067	---	0.1
La	139	<-1.200E-3 ppb	40.00141	---	0.1
Ce	140	-7.500E-4 ppb	60.00212	---	0.1
Pr	141	2.000E-4 ppb	70.00247	---	0.1
Nd	146	0.003000 ppb	50.00177	---	0.1
Sm	147	0.005000 ppb	70.00320	---	0.1
Eu	153	<1.000E-3 ppb	40.00143	---	0.1
Gd	157	<3.200E-3 ppb	30.00107	---	0.1
Tb	159	<5.300E-4 ppb	20.00072	---	0.1
Dy	163	<2.200E-3 ppb	40.00143	---	0.1
Ho	165	<5.500E-4 ppb	10.00036	---	0.1
Er	166	<1.600E-3 ppb	30.00108	---	0.1
Tm	169	<0.0000 ppb	20.00072	---	0.1
Yb	172	0.002400 ppb	50.00397	---	0.1
Lu	175	5.700E-4 ppb	50.00325	---	0.1
Hf	178	0.004100 ppb	150.0098	---	0.1
Ta	181	1.200E-4 ppb	70.00253	---	0.1
W	182	0.01600 ppb	460.0249	---	0.1
Re	185	-0.9600 ppb	80.00291	---	0.1
Os	189	-7.500E-4 ppb	60.00218	---	0.1
Ir	193	0.003600 ppb	140.0088	---	0.1
Pt	195	-7.000 ppb	90.00327	---	0.1
Au	197	-0.008600 ppb	100.0036	---	0.1
Hg	202	-0.2300 ppb	740.0479	---	0.1
Tl	205	-0.03200 ppb	2,150.259	---	0.1
Pb	208	-0.09500 ppb	1,020.074	---	0.1
Bi	209	-0.1100 ppb	640.0364	---	0.1
Th	232	-2.700E-4 ppb	1,110.091	---	0.1
U	238	-0.003300 ppb	1,770.198	---	0.1