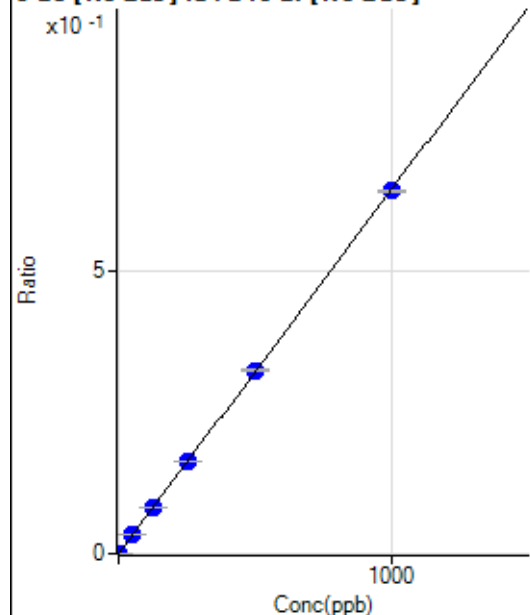


Batch Folder: D:\ICP-MS Data\P70302818 MS.b\
Analysis File: P70302818 MS.batch.bin
DA Date-Time: 2018-03-29 10:38:38
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2018-03-28 16:09:01
2			
3	005CALS.d	S02	2018-03-28 16:17:24
4	006CALS.d	S03	2018-03-28 16:21:17
5	007CALS.d	S04	2018-03-28 16:25:28
6	008CALS.d	S05	2018-03-28 16:29:16
7	009CALS.d	S06	2018-03-28 16:33:01
8	010CALS.d	S07	2018-03-28 16:36:45
9	011CALS.d	S08	2018-03-28 16:40:30

9 Be [No Gas] ISTD:6 Li [No Gas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	90.74	0.0000	P	9.3
2	☐	0.100					
3	☐	1.000	0.953	2702.17	0.0006	P	0.2
4	☐	50.000	52.172	142602.24	0.0336	P	0.7
5	☐	125.000	128.421	352065.60	0.0826	P	0.5
6	☐	250.000	253.539	697110.91	0.1630	P	0.3
7	☐	500.000	504.190	1348803.24	0.3242	P	0.5
8	☐	1000.000	996.484	2640457.12	0.6406	P	0.7
9	☐			457.43	0.0001	P	5.0

$$y = 6.4289\text{E-}004 * x + 2.1089\text{E-}005$$

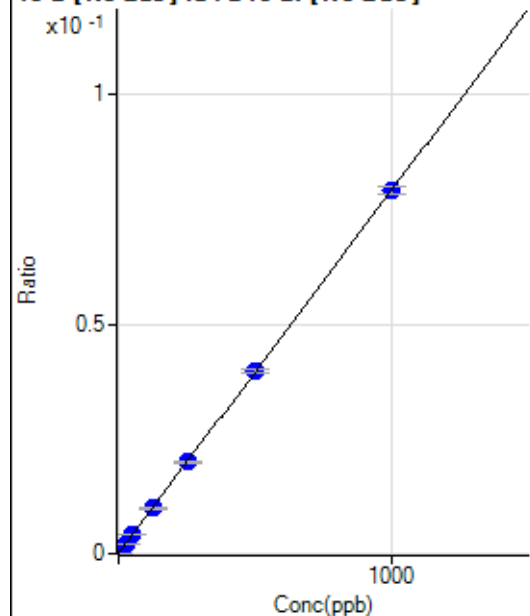
$$R = 1.0000$$

$$DL = 0.009157$$

$$BEC = 0.0328$$

Weight: <None>

Min Conc: 0

10 B [No Gas] ISTD:6 Li [No Gas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	508.37	0.0001	P	16.3
2	☐	2.500					
3	☐	25.000	22.793	8194.15	0.0019	P	0.8
4	☐	50.000	50.797	17571.98	0.0041	P	1.9
5	☐	125.000	124.140	42354.74	0.0099	P	3.3
6	☐	250.000	252.450	85881.99	0.0201	P	1.8
7	☐	500.000	501.647	165571.06	0.0398	P	1.4
8	☐	1000.000	998.687	326011.48	0.0791	P	2.0
9	☐			6107.05	0.0015	P	11.1

$$y = 7.9088\text{E-}005 * x + 1.1821\text{E-}004$$

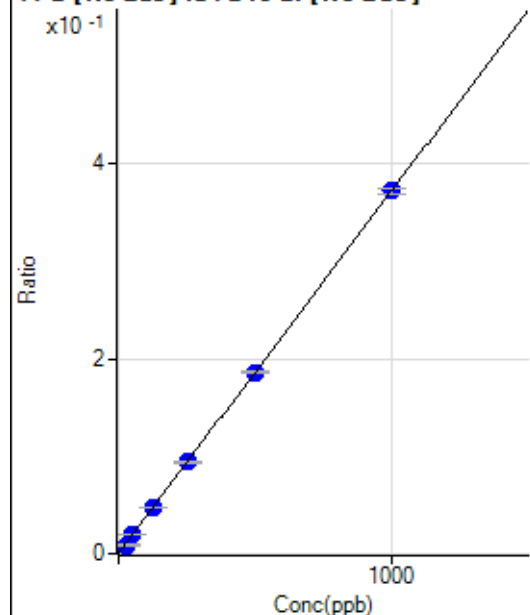
$$R = 1.0000$$

$$DL = 0.7322$$

$$BEC = 1.495$$

Weight: <None>

Min Conc: 0

11 B [No Gas] ISTD:6 Li [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2119.69	0.0005	P	11.5
2	☐	2.500					
3	☐	25.000	22.384	37575.31	0.0088	P	1.6
4	☐	50.000	51.415	83248.19	0.0196	P	1.2
5	☐	125.000	125.209	200387.96	0.0470	P	2.0
6	☐	250.000	252.166	402687.65	0.0942	P	1.7
7	☐	500.000	498.010	771826.89	0.1855	P	1.1
8	☐	1000.000	1000.422	1533732.93	0.3721	P	1.3
9	☐			27448.10	0.0066	P	7.3

$$y = 3.7149\text{E-}004 * x + 4.9258\text{E-}004$$

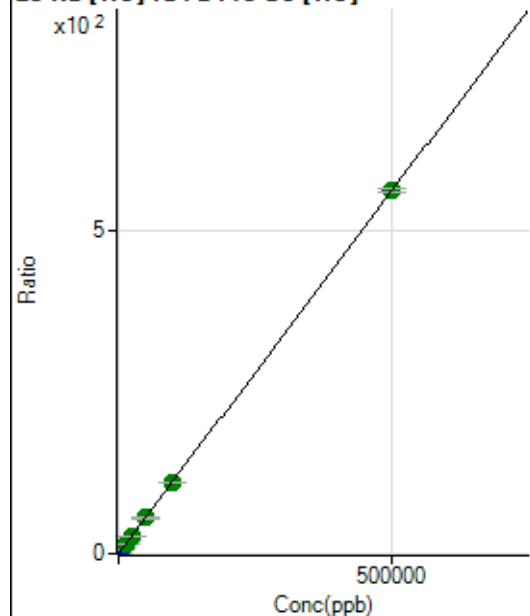
$$R = 1.0000$$

$$DL = 0.4578$$

$$BEC = 1.326$$

Weight: <None>

Min Conc: 0

23 Na [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	31130.57	0.0510	P	3.0
2	☐	50.000					
3	☐	500.000	427.995	330230.40	0.5319	P	0.3
4	☐	5000.000	4910.355	3468054.20	5.5687	P	0.6
5	☐	12500.000	12221.886	8302022.24	13.7846	A	0.7
6	☐	25000.000	24563.395	16397146.20	27.6526	A	0.5
7	☐	50000.000	49059.170	32162424.33	55.1782	A	0.8
8	☐	100000.00	97254.949	63271340.30	109.3353	A	0.2
9	☐	500000.00	500672.84	324182026.6	562.6512	A	1.0

$$y = 0.0011 * x + 0.0510$$

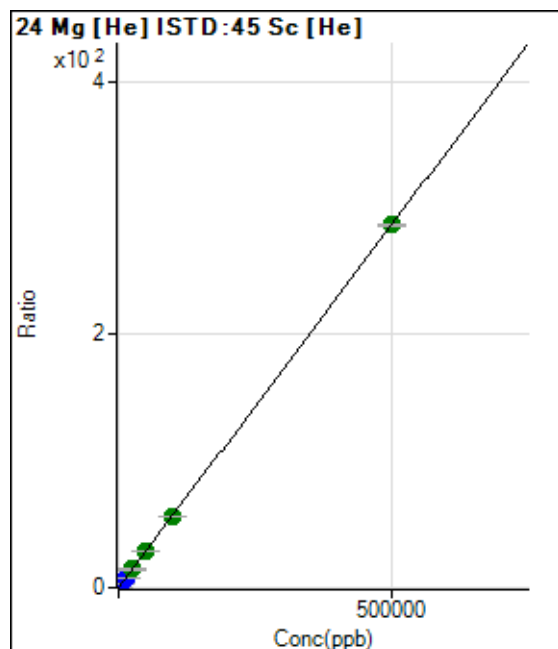
$$R = 1.0000$$

$$DL = 4.073$$

$$BEC = 45.4$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	288.90	0.0005	P	18.6
2	☐	50.000					
3	☐	500.000	443.972	158307.94	0.2550	P	0.4
4	☐	5000.000	5041.164	1800217.16	2.8907	P	1.0
5	☐	12500.000	12691.130	4382441.20	7.2766	P	0.7
6	☐	25000.000	25283.631	8595755.40	14.4961	A	0.9
7	☐	50000.000	50395.531	16841410.10	28.8932	A	0.6
8	☐	100000.00	99132.972	32890040.32	56.8354	A	0.2
9	☐	500000.00	500114.53	165201442.5	286.7261	A	0.6

$$y = 5.7332\text{E-}004 * x + 4.7348\text{E-}004$$

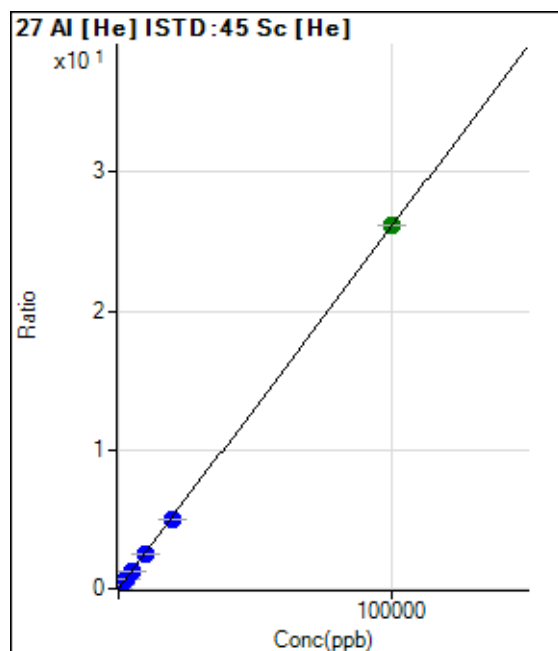
$$R = 1.0000$$

$$DL = 0.4613$$

$$BEC = 0.8259$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	72.22	0.0001	P	52.1
2	☐	2.000					
3	☐	20.000	17.539	2914.29	0.0047	P	6.4
4	☐	1000.000	969.358	157547.42	0.2530	P	1.2
5	☐	2500.000	2417.677	379895.25	0.6308	P	1.1
6	☐	5000.000	4870.624	753454.85	1.2706	P	0.7
7	☐	10000.000	9684.379	1472582.12	2.5263	P	0.2
8	☐	20000.000	19255.264	2906758.96	5.0230	P	0.3
9	☐	100000.00	100189.34	15058350.68	26.1350	A	0.0

$$y = 2.6086\text{E-}004 * x + 1.1840\text{E-}004$$

$$R = 1.0000$$

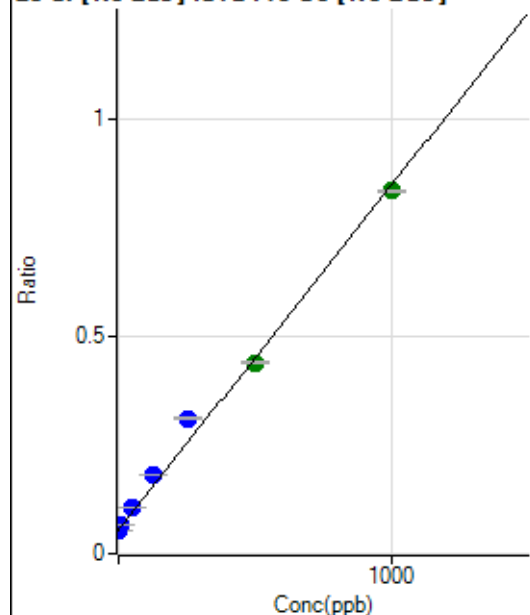
$$DL = 0.7096$$

$$BEC = 0.4539$$

Weight: <None>

Min Conc: 0

28 Si [No Gas] ISTD :45 Sc [No Gas]



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	564308.86	0.0545	P	0.2
2	☐	1.000					
3	☐	10.000	14.310	686556.95	0.0658	P	0.9
4	☐	50.000	64.003	1078778.74	0.1052	P	0.7
5	☐	125.000	160.874	1842963.30	0.1820	P	0.9
6	☐	250.000	323.826	3112054.95	0.3112	P	1.2
7	☐	500.000	485.991	4263185.17	0.4398	A	0.1
8	☐	1000.000	983.321	8051335.85	0.8341	A	0.5
9	☐			1391671.02	0.1427	P	1.7

$$y = 7.9286E-004 * x + 0.0545$$

$$R = 0.9965$$

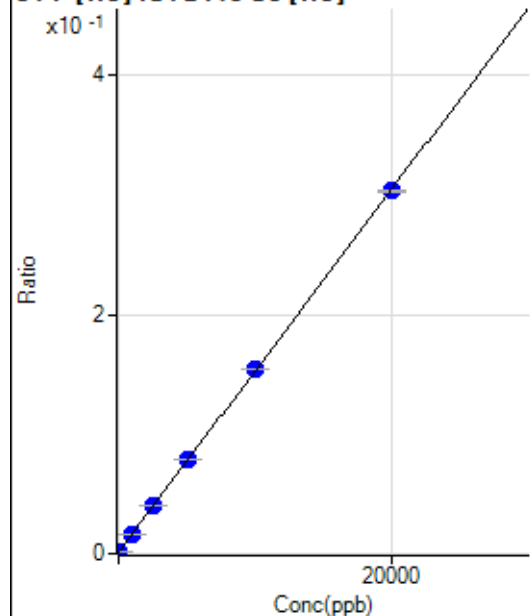
$$DL = 0.4086$$

$$BEC = 68.71$$

Weight: <None>

Min Conc: 0

31 P [He] ISTD :45 Sc [He]



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-3.883	750.05	0.0012	P	9.5
2	☐	0.000					
3	☐	0.000	3.883	836.17	0.0013	P	6.4
4	☐	1000.000	962.051	9887.02	0.0159	P	2.0
5	☐	2500.000	2567.266	24220.39	0.0402	P	1.7
6	☐	5000.000	5089.325	46523.77	0.0785	P	0.1
7	☐	10000.000	10096.112	89985.07	0.1544	P	0.7
8	☐	20000.000	19923.102	175568.78	0.3034	P	0.5
9	☐			766.72	0.0013	P	12.6

$$y = 1.5163E-005 * x + 0.0013$$

$$R = 1.0000$$

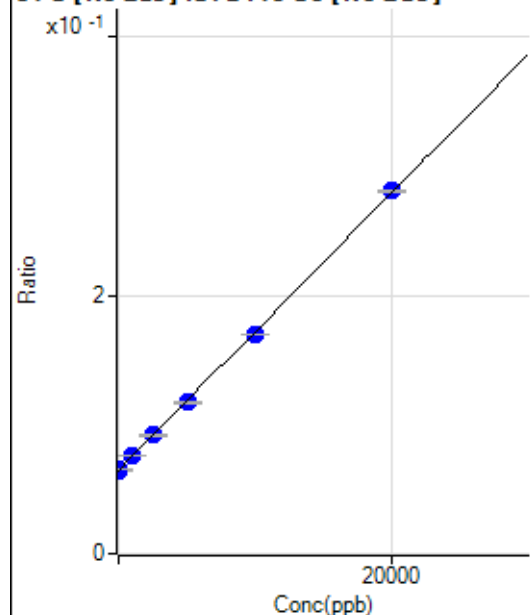
$$DL = 20.07$$

$$BEC = 84.94$$

Weight: <None>

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas]



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-53.163	662908.29	0.0640	P	0.4
2	☐	0.000					
3	☐	0.000	53.163	679410.50	0.0651	P	0.8
4	☐	1000.000	1085.684	781477.16	0.0762	P	0.2
5	☐	2500.000	2526.412	928322.07	0.0917	P	0.5
6	☐	5000.000	4863.771	1167745.42	0.1168	P	0.4
7	☐	10000.000	9794.869	1645113.87	0.1697	P	0.3
8	☐	20000.000	20129.037	2709039.45	0.2806	P	0.5
9	☐			523420.40	0.0537	P	1.8

$$y = 1.0735E-005 * x + 0.0646$$

$$R = 0.9999$$

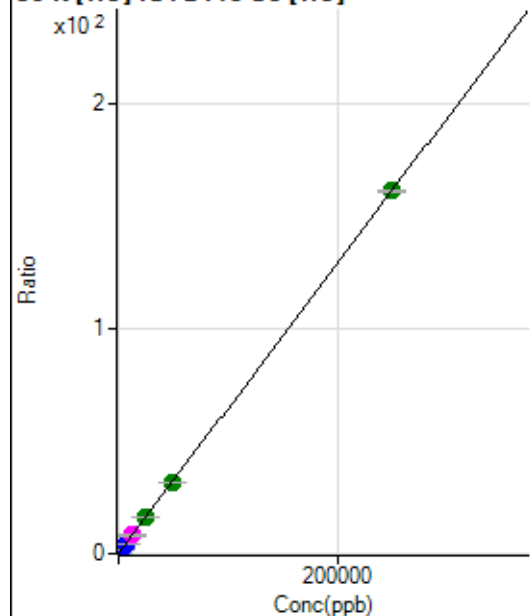
$$DL = 109.5$$

$$BEC = 6015$$

Weight: <None>

Min Conc: 0

39 K [He] ISTD:45 Sc [He]



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70596.24	0.1157	P	1.9
2	☐	50.000					
3	☐	500.000	449.926	251871.32	0.4057	P	0.6
4	☐	2500.000	2526.441	1086297.66	1.7443	P	0.7
5	☐	6250.000	6276.824	2506570.44	4.1619	P	0.5
6	☐	12500.000	12477.699	4838036.91	8.1591	M	1.1
7	☐	25000.000	24560.277	9295743.35	15.9477	A	0.4
8	☐	50000.000	48580.686	18189350.23	31.4318	A	0.3
9	☐	250000.00	250328.11	93042586.80	161.4822	A	0.7

$$y = 6.4462E-004 * x + 0.1157$$

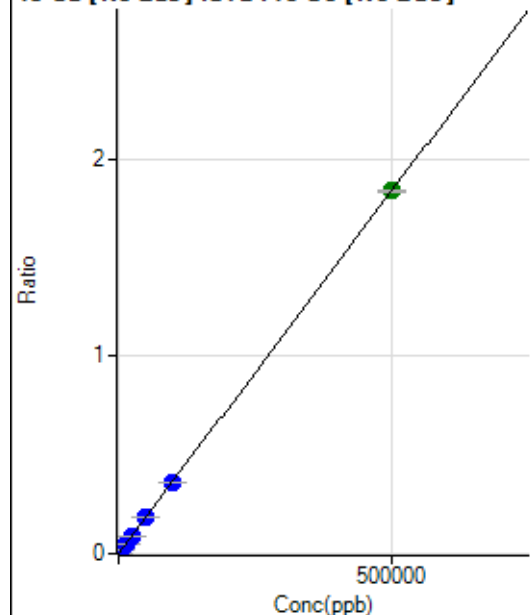
$$R = 1.0000$$

$$DL = 9.972$$

$$BEC = 179.5$$

Weight: <None>

Min Conc: 0

43 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	530.59	0.0001	P	10.2
2	☐	50.000					
3	☐	500.000	429.461	17004.91	0.0016	P	1.5
4	☐	5000.000	4908.210	185552.43	0.0181	P	0.8
5	☐	12500.000	12262.176	457023.66	0.0451	P	0.3
6	☐	25000.000	24686.475	908193.01	0.0908	P	0.6
7	☐	50000.000	49279.666	1756974.59	0.1813	P	0.3
8	☐	100000.00	98610.334	3500589.79	0.3626	P	0.5
9	☐	500000.00	500372.57	17940573.66	1.8399	A	0.3

$$y = 3.6770\text{E-}006 * x + 5.1224\text{E-}005$$

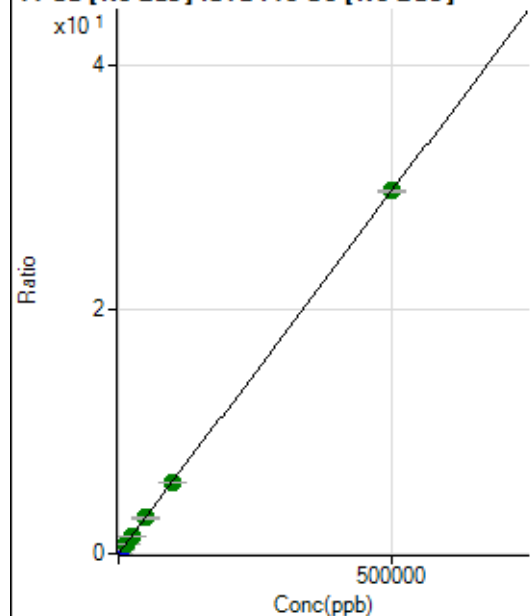
$$R = 1.0000$$

$$DL = 4.275$$

$$BEC = 13.93$$

Weight: <None>

Min Conc: 0

44 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	29703.35	0.0029	P	1.4
2	☐	50.000					
3	☐	500.000	427.142	293962.53	0.0282	P	0.8
4	☐	5000.000	4965.939	3046949.81	0.2972	P	0.5
5	☐	12500.000	12257.571	7384621.69	0.7294	A	0.5
6	☐	25000.000	24509.722	14554807.96	1.4555	A	0.1
7	☐	50000.000	49068.294	28218954.45	2.9111	A	0.2
8	☐	100000.00	97580.018	55854524.16	5.7864	A	0.2
9	☐	500000.00	500608.15	289332895.3	29.6737	A	0.3

$$y = 5.9270\text{E-}005 * x + 0.0029$$

$$R = 1.0000$$

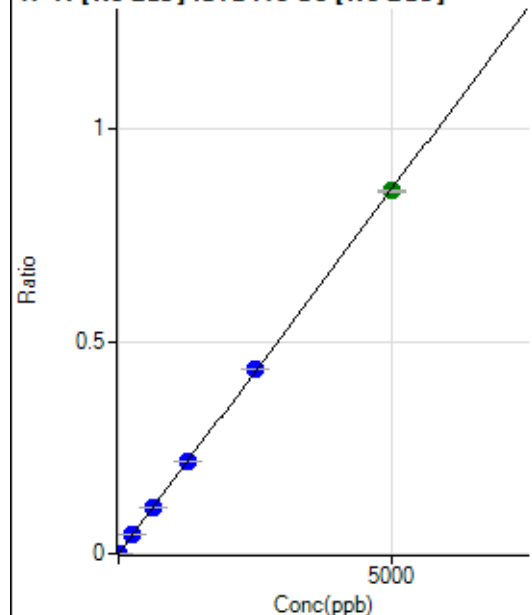
$$DL = 1.988$$

$$BEC = 48.38$$

Weight: <None>

Min Conc: 0

47 Ti [No Gas] ISTD :45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	225.01	0.0000	P	3.7
2	☐	0.500					
3	☐	5.000	4.473	8230.41	0.0008	P	3.2
4	☐	250.000	251.691	442881.41	0.0432	P	0.6
5	☐	625.000	624.864	1085508.02	0.1072	P	0.3
6	☐	1250.000	1264.424	2169179.13	0.2169	P	0.6
7	☐	2500.000	2532.064	4210684.34	0.4344	P	0.6
8	☐	5000.000	4980.295	8246954.35	0.8544	A	0.5
9	☐			2189.15	0.0002	P	0.8

$$y = 1.7155E-004 * x + 2.1723E-005$$

$$R = 1.0000$$

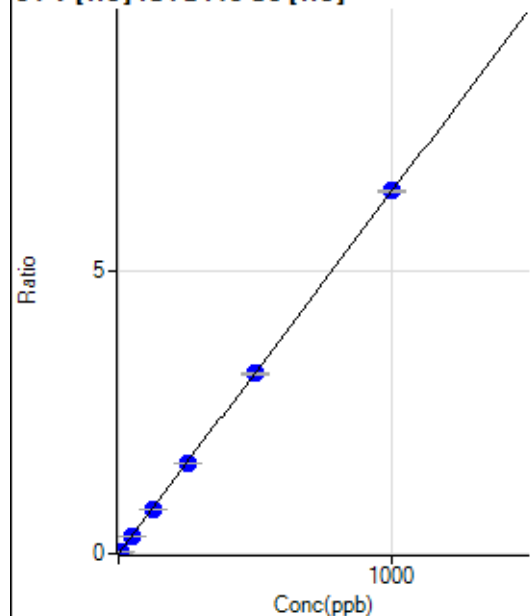
$$DL = 0.0141$$

$$BEC = 0.1266$$

Weight: <None>

Min Conc: 0

51 V [He] ISTD :45 Sc [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22.22	0.0000	P	52.7
2	☐	0.500					
3	☐	5.000	4.493	17923.29	0.0289	P	1.1
4	☐	50.000	49.485	197802.08	0.3176	P	0.7
5	☐	125.000	123.879	478839.77	0.7951	P	0.6
6	☐	250.000	247.976	943692.02	1.5915	P	0.4
7	☐	500.000	496.786	1858396.28	3.1883	P	0.4
8	☐	1000.000	1002.281	3722377.03	6.4324	P	0.3
9	☐			1525.66	0.0026	P	3.4

$$y = 0.0064 * x + 3.6416E-005$$

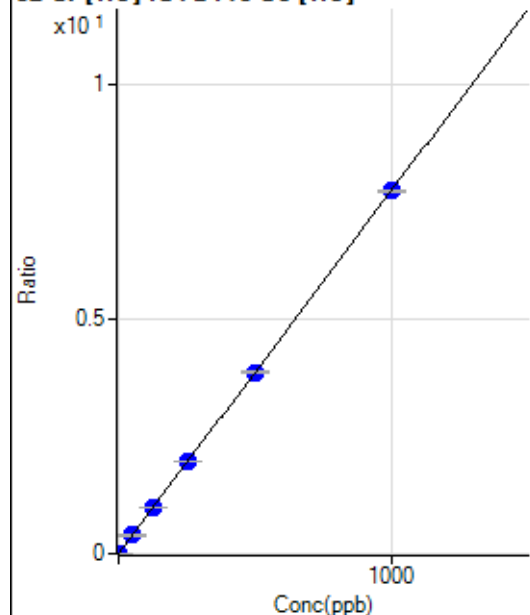
$$R = 1.0000$$

$$DL = 0.008975$$

$$BEC = 0.005674$$

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	795.59	0.0013	P	4.2
2	☐	0.200					
3	☐	2.000	1.972	10301.53	0.0166	P	1.5
4	☐	50.000	50.219	243316.37	0.3907	P	0.6
5	☐	125.000	126.884	593322.27	0.9851	P	0.8
6	☐	250.000	254.028	1168745.82	1.9710	P	0.3
7	☐	500.000	499.517	2258406.10	3.8745	P	0.4
8	☐	1000.000	998.988	4483322.22	7.7473	P	0.2
9	☐			192432.20	0.3340	P	0.4

$$y = 0.0078 * x + 0.0013$$

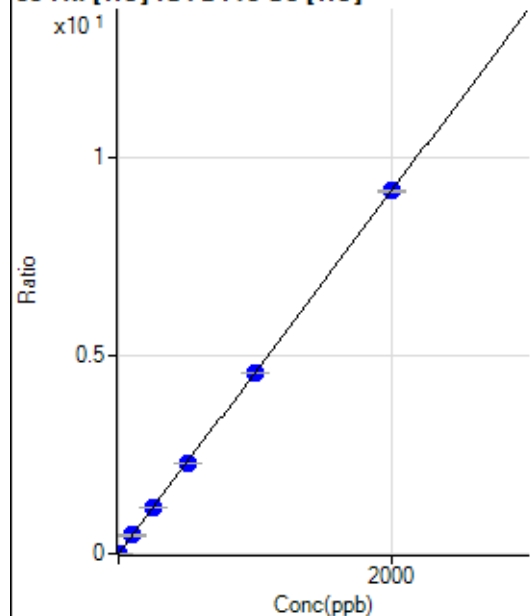
$$R = 1.0000$$

$$DL = 0.02095$$

$$BEC = 0.1681$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	68.89	0.0001	P	19.6
2	☐	0.100					
3	☐	1.000	0.963	2806.98	0.0045	P	2.6
4	☐	100.000	100.791	287512.14	0.4617	P	1.0
5	☐	250.000	251.188	692838.43	1.1504	P	0.7
6	☐	500.000	499.915	1357520.09	2.2894	P	0.4
7	☐	1000.000	998.713	2665842.32	4.5735	P	0.4
8	☐	2000.000	2000.477	5301316.83	9.1609	P	0.2
9	☐			25532.37	0.0443	P	1.6

$$y = 0.0046 * x + 1.1291E-004$$

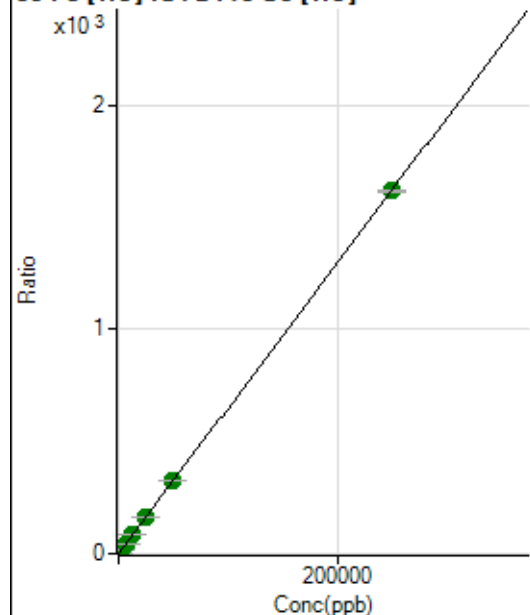
$$R = 1.0000$$

$$DL = 0.01451$$

$$BEC = 0.02466$$

Weight: <None>

Min Conc: 0

56 Fe [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6907.38	0.0113	P	3.5
2	☐	5.000					
3	☐	50.000	46.452	193557.26	0.3118	P	1.1
4	☐	2500.000	2560.505	10321635.99	16.5735	A	0.7
5	☐	6250.000	6387.172	24889143.61	41.3256	A	0.7
6	☐	12500.000	12764.734	48965974.24	82.5777	A	0.5
7	☐	25000.000	25303.201	95406962.32	163.6806	A	0.6
8	☐	50000.000	50052.960	187363146.7	323.7700	A	0.1
9	☐	250000.00	249941.81	931504561.5	1,616.715	A	0.3

$$y = 0.0065 * x + 0.0113$$

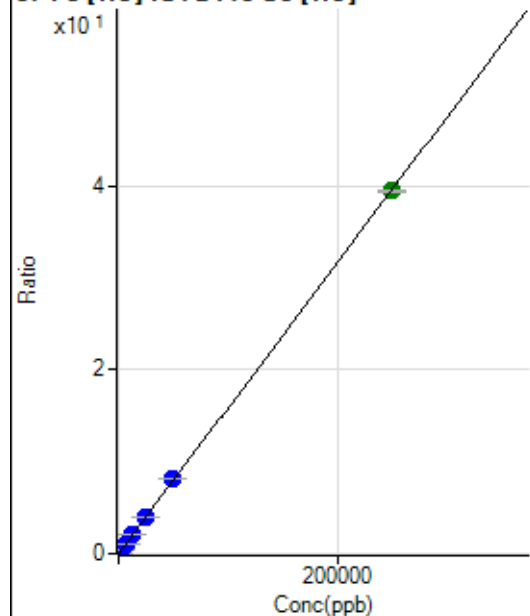
$$R = 1.0000$$

$$DL = 0.1854$$

$$BEC = 1.75$$

Weight: <None>

Min Conc: 0

57 Fe [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	685.22	0.0011	P	15.4
2	☐	5.000					
3	☐	50.000	47.624	5369.65	0.0087	P	1.6
4	☐	2500.000	2579.430	254610.65	0.4088	P	1.1
5	☐	6250.000	6419.501	611767.82	1.0158	P	0.4
6	☐	12500.000	12831.845	1203281.65	2.0292	P	0.5
7	☐	25000.000	25439.816	2344378.20	4.0220	P	0.2
8	☐	50000.000	51168.930	4680797.50	8.0886	P	0.2
9	☐	250000.00	249700.60	22739722.96	39.4673	A	0.4

$$y = 1.5805E-004 * x + 0.0011$$

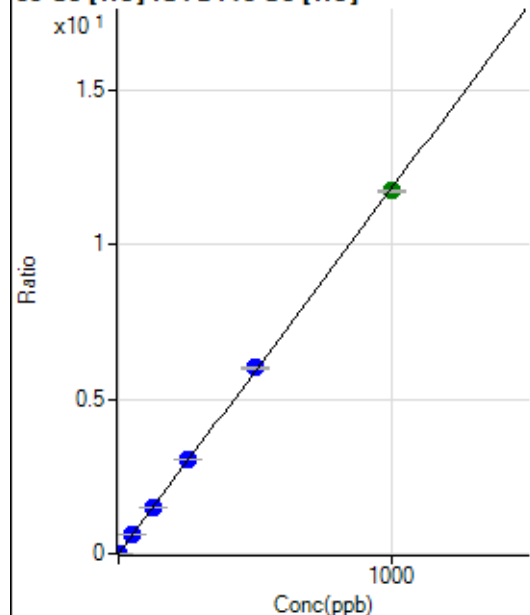
$$R = 1.0000$$

$$DL = 3.272$$

$$BEC = 7.104$$

Weight: <None>

Min Conc: 0

59 Co [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	118.89	0.0002	P	3.3
2	☐	0.100					
3	☐	1.000	0.932	6961.75	0.0112	P	1.7
4	☐	50.000	51.595	380210.07	0.6105	P	1.1
5	☐	125.000	128.112	912812.29	1.5156	P	1.0
6	☐	250.000	257.003	1802792.65	3.0403	P	0.0
7	☐	500.000	508.597	3506928.94	6.0164	P	0.4
8	☐	1000.000	993.482	6800887.05	11.7521	A	0.5
9	☐			83693.58	0.1453	P	0.7

$$y = 0.0118 * x + 1.9484E-004$$

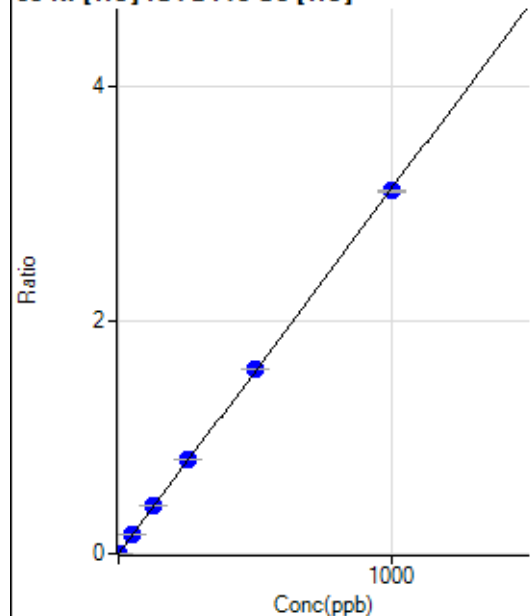
$$R = 0.9999$$

$$DL = 0.00164$$

$$BEC = 0.01647$$

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	42.22	0.0001	P	16.5
2	☐	0.100					
3	☐	1.000	0.979	1941.27	0.0031	P	6.9
4	☐	50.000	51.875	100996.05	0.1622	P	0.8
5	☐	125.000	130.504	245648.49	0.4079	P	0.9
6	☐	250.000	258.615	479239.91	0.8082	P	0.4
7	☐	500.000	505.340	920499.15	1.5792	P	0.2
8	☐	1000.000	994.394	1798239.36	3.1074	P	0.5
9	☐			62755.90	0.1089	P	0.7

$$y = 0.0031 * x + 6.9200E-005$$

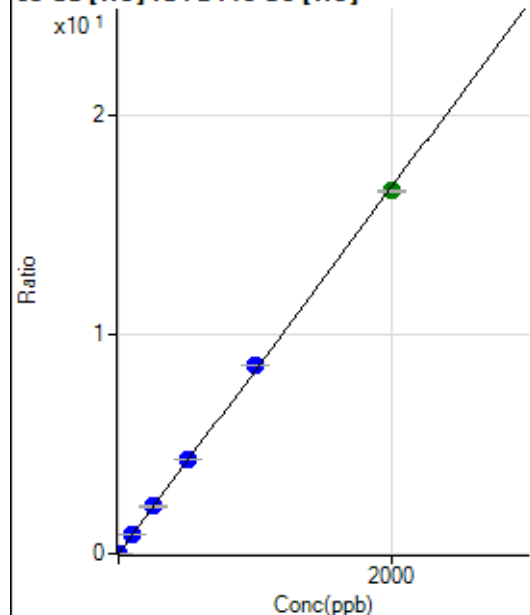
$$R = 0.9999$$

$$DL = 0.01098$$

$$BEC = 0.02215$$

Weight: <None>

Min Conc: 0

⁶³Cu [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1056.72	0.0017	P	1.8
2	☐	0.200					
3	☐	2.000	1.891	10907.55	0.0176	P	1.1
4	☐	100.000	103.731	542154.96	0.8705	P	0.4
5	☐	250.000	257.440	1299670.35	2.1580	P	0.7
6	☐	500.000	516.851	2567959.44	4.3307	P	0.2
7	☐	1000.000	1029.354	5026461.35	8.6232	P	0.3
8	☐	2000.000	1979.994	9597817.35	16.5855	A	0.3
9	☐			20096.22	0.0349	P	1.8

$$y = 0.0084 * x + 0.0017$$

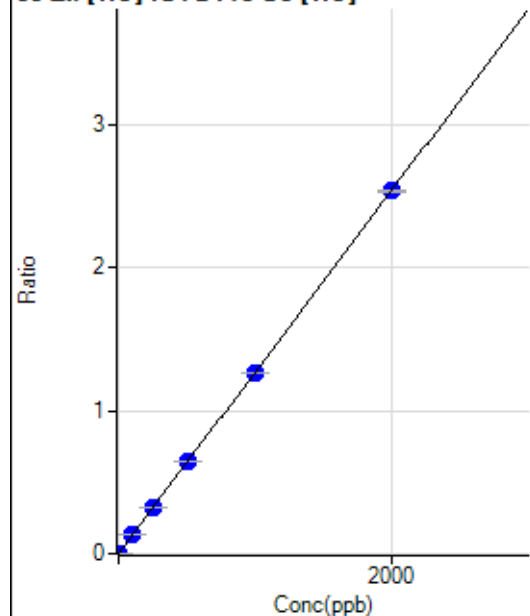
$$R = 0.9998$$

$$DL = 0.01093$$

$$BEC = 0.2068$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	478.90	0.0008	P	5.5
2	☐	0.200					
3	☐	2.000	1.645	1783.47	0.0029	P	4.0
4	☐	100.000	101.908	81066.95	0.1302	P	0.5
5	☐	250.000	254.575	195136.75	0.3240	P	0.7
6	☐	500.000	507.550	382575.45	0.6452	P	0.3
7	☐	1000.000	997.369	738564.13	1.2671	P	0.4
8	☐	2000.000	1998.761	1468994.65	2.5385	P	0.2
9	☐			9108.52	0.0158	P	2.8

$$y = 0.0013 * x + 7.8483E-004$$

$$R = 1.0000$$

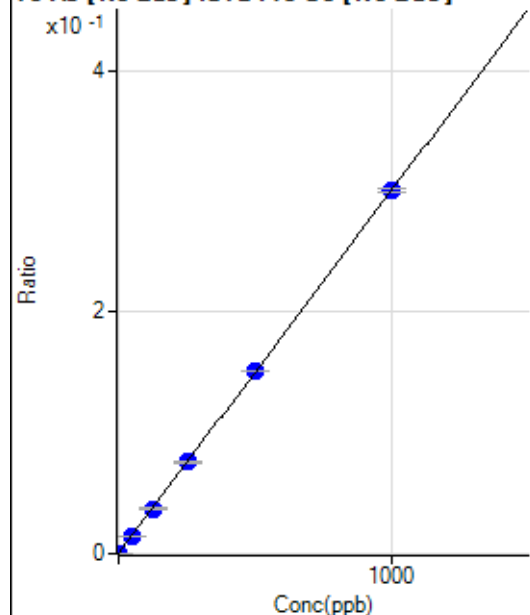
$$DL = 0.1022$$

$$BEC = 0.6182$$

Weight: <None>

Min Conc: 0

75 As [No Gas] ISTD:45 Sc [No Gas]



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2471.68	0.0002	P	4.2
2	☐	0.100					
3	☐	1.000	0.862	5187.03	0.0005	P	2.6
4	☐	50.000	49.179	153833.45	0.0150	P	1.1
5	☐	125.000	123.703	378475.69	0.0374	P	0.0
6	☐	250.000	251.133	756388.25	0.0756	P	1.2
7	☐	500.000	502.037	1463518.19	0.1510	P	0.2
8	☐	1000.000	998.902	2897349.95	0.3002	P	1.1
9	☐			7331.59	0.0008	P	4.4

$$y = 3.0026E-004 * x + 2.3862E-004$$

$$R = 1.0000$$

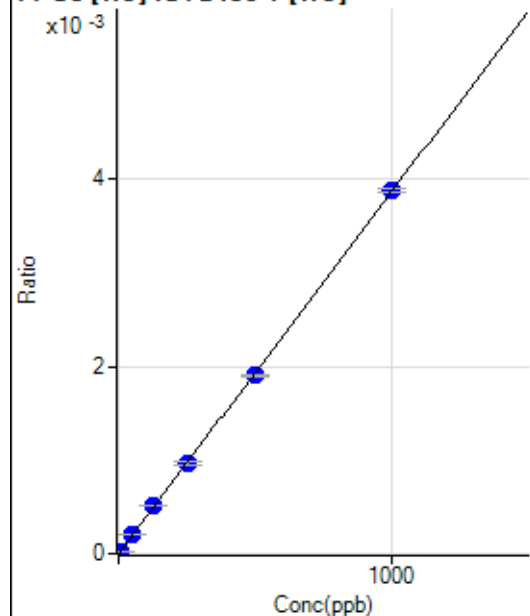
$$DL = 0.0993$$

$$BEC = 0.7947$$

Weight: <None>

Min Conc: 0

77 Se [He] ISTD:89 Y [He]



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	0.500					
3	☐	5.000	4.498	56.67	0.0000	P	17.2
4	☐	50.000	52.991	673.36	0.0002	P	3.4
5	☐	125.000	131.777	1623.45	0.0005	P	1.0
6	☐	250.000	248.561	3032.60	0.0010	P	3.9
7	☐	500.000	492.309	5916.86	0.0019	P	0.6
8	☐	1000.000	1003.211	11926.21	0.0039	P	1.2
9	☐			12.22	0.0000	P	15.5

$$y = 3.8655E-006 * x + 0.0000E+000$$

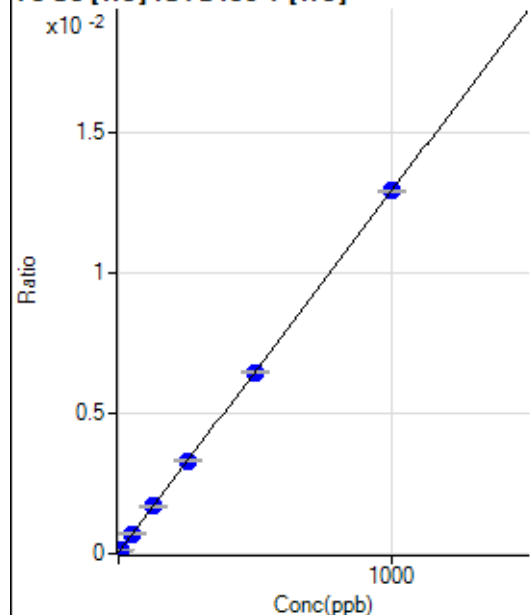
$$R = 0.9999$$

$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

78 Se [He] ISTD:89 Y [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	148.77	0.0000	P	5.2
2	☐	0.500					
3	☐	5.000	4.711	350.01	0.0001	P	1.4
4	☐	50.000	51.916	2355.77	0.0007	P	3.0
5	☐	125.000	127.341	5384.99	0.0017	P	2.6
6	☐	250.000	254.093	10495.83	0.0033	P	1.0
7	☐	500.000	497.271	20094.87	0.0065	P	1.2
8	☐	1000.000	999.954	39823.00	0.0129	P	0.4
9	☐			153.09	0.0001	P	10.2

$$y = 1.2903\text{E-}005 * x + 4.6663\text{E-}005$$

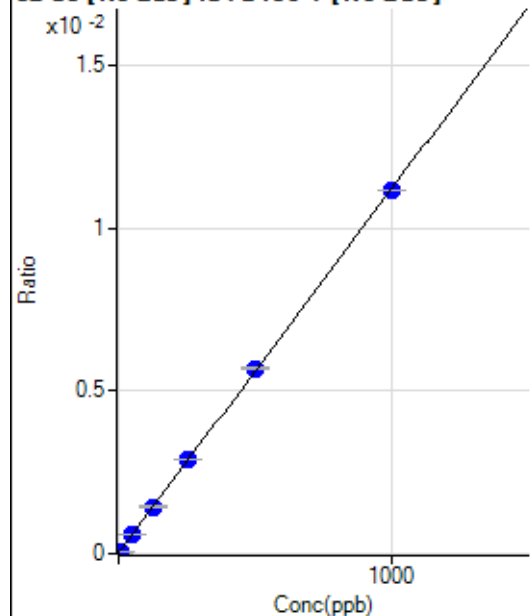
$$R = 1.0000$$

$$DL = 0.5595$$

$$BEC = 3.616$$

Weight: <None>

Min Conc: 0

82 Se [No Gas] ISTD:89 Y [No Gas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	356.57	0.0000	P	10.8
2	☐	0.500					
3	☐	5.000	4.078	1098.13	0.0001	P	4.6
4	☐	50.000	50.519	9448.70	0.0006	P	1.0
5	☐	125.000	127.266	23248.61	0.0014	P	1.2
6	☐	250.000	255.826	46284.89	0.0029	P	1.0
7	☐	500.000	506.765	89687.86	0.0057	P	0.5
8	☐	1000.000	994.856	174775.04	0.0112	P	0.0
9	☐			479.78	0.0000	P	9.3

$$y = 1.1192\text{E-}005 * x + 2.1899\text{E-}005$$

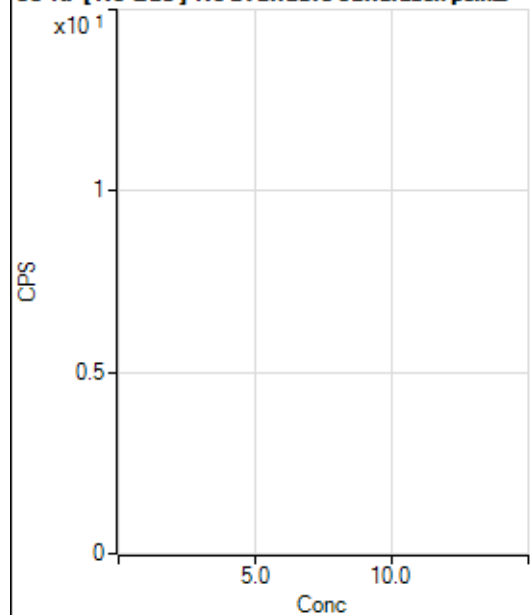
$$R = 0.9999$$

$$DL = 0.6359$$

$$BEC = 1.957$$

Weight: <None>

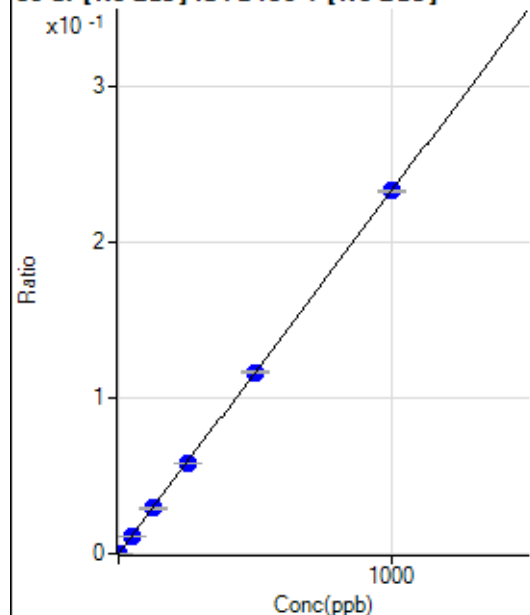
Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			708.92		P	4.3
2	☐						
3	☐			804.48		P	5.2
4	☐			698.92		P	7.0
5	☐			693.36		P	4.4
6	☐			650.03		P	5.4
7	☐			662.25		P	3.0
8	☐			692.25		P	15.4
9	☐			706.70		P	5.1

83 Kr [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						
9	☐						

86 Sr [No Gas] ISTD:89 Y [No Gas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1172.32	0.0001	P	6.3
2	☐	0.100					
3	☐	1.000	0.861	4423.10	0.0003	P	3.6
4	☐	50.000	49.525	186327.64	0.0116	P	0.8
5	☐	125.000	124.369	465790.52	0.0290	P	0.8
6	☐	250.000	250.271	934280.75	0.0582	P	0.4
7	☐	500.000	499.993	1831544.81	0.1163	P	0.4
8	☐	1000.000	1000.039	3642070.70	0.2325	P	0.2
9	☐			122146.49	0.0079	P	1.0

$$y = 2.3240E-004 * x + 7.1991E-005$$

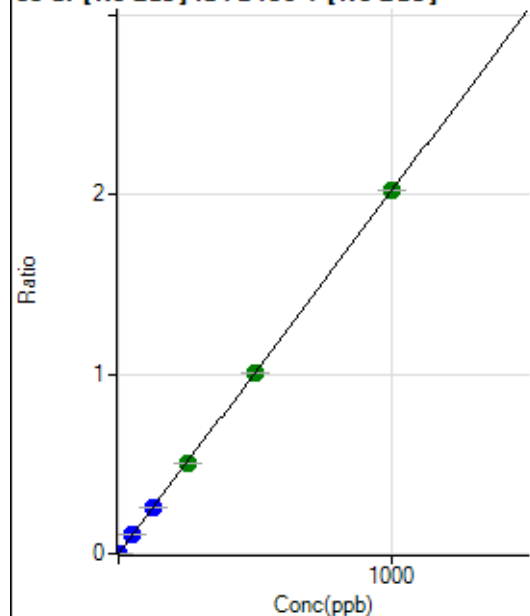
$$R = 1.0000$$

$$DL = 0.05859$$

$$BEC = 0.3098$$

Weight: <None>

Min Conc: 0

88 Sr [No Gas] ISTD:89 Y [No Gas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	225.01	0.0000	P	27.0
2	☐	0.100					
3	☐	1.000	0.899	29717.63	0.0018	P	1.0
4	☐	50.000	50.854	1650860.50	0.1026	P	0.2
5	☐	125.000	126.900	4115839.33	0.2560	P	0.6
6	☐	250.000	249.066	8061836.12	0.5025	A	0.1
7	☐	500.000	499.495	15874302.44	1.0077	A	0.3
8	☐	1000.000	1000.206	31612751.40	2.0179	A	0.2
9	☐			1065043.14	0.0689	P	0.4

$$y = 0.0020 * x + 1.3825E-005$$

$$R = 1.0000$$

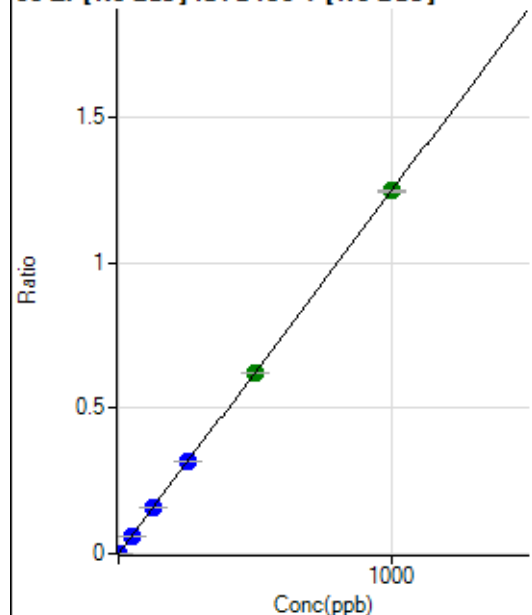
$$DL = 0.005554$$

$$BEC = 0.006853$$

Weight: <None>

Min Conc: 0

90 Zr [No Gas] ISTD: 89 Y [No Gas]



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1013.97	0.0001	P	2.9
2	☐	0.100					
3	☐	1.000	0.883	18885.50	0.0012	P	1.1
4	☐	50.000	49.552	993848.48	0.0618	P	0.5
5	☐	125.000	125.070	2504919.26	0.1558	P	0.7
6	☐	250.000	254.974	5095687.49	0.3176	P	0.4
7	☐	500.000	497.622	9763447.96	0.6198	A	0.3
8	☐	1000.000	999.959	19510850.61	1.2454	A	0.4
9	☐			4775.99	0.0003	P	3.7

$$y = 0.0012 * x + 6.2261E-005$$

$$R = 1.0000$$

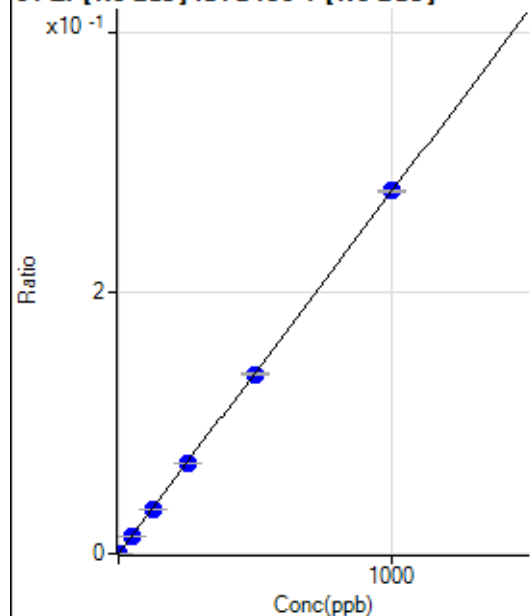
$$DL = 0.004304$$

$$BEC = 0.04999$$

Weight: <None>

Min Conc: 0

91 Zr [No Gas] ISTD: 89 Y [No Gas]



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	191.68	0.0000	P	23.3
2	☐	0.100					
3	☐	1.000	0.871	4120.22	0.0003	P	3.8
4	☐	50.000	49.098	219274.78	0.0136	P	0.9
5	☐	125.000	123.954	552849.70	0.0344	P	0.4
6	☐	250.000	248.526	1106074.81	0.0689	P	0.8
7	☐	500.000	495.671	2165786.49	0.1375	P	0.6
8	☐	1000.000	1002.709	4357027.88	0.2781	P	0.5
9	☐			994.52	0.0001	P	14.4

$$y = 2.7735E-004 * x + 1.1776E-005$$

$$R = 1.0000$$

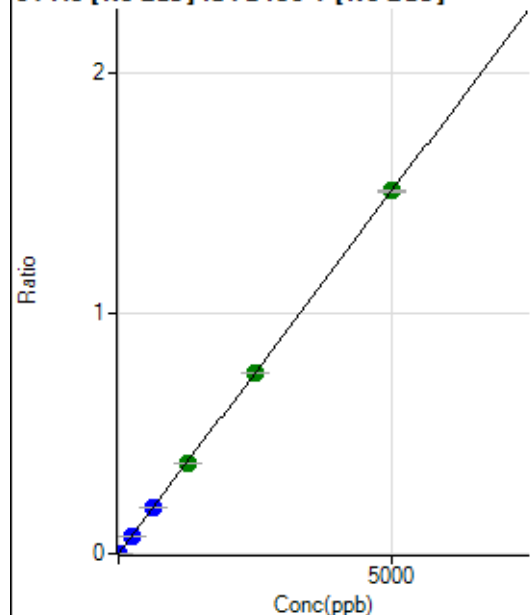
$$DL = 0.02967$$

$$BEC = 0.04246$$

Weight: <None>

Min Conc: 0

94 Mo [No Gas] ISTD:89 Y [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	383.35	0.0000	P	7.5
2	☐	0.500					
3	☐	5.000	4.442	22190.38	0.0014	P	2.6
4	☐	250.000	249.328	1211983.72	0.0753	P	1.0
5	☐	625.000	629.093	3054945.27	0.1900	P	0.4
6	☐	1250.000	1247.164	6044150.70	0.3767	A	0.5
7	☐	2500.000	2490.467	11849946.01	0.7523	A	0.5
8	☐	5000.000	5004.998	23683376.05	1.5118	A	0.6
9	☐			25704.50	0.0017	P	2.0

$$y = 3.0204\text{E-}004 * x + 2.3536\text{E-}005$$

$$R = 1.0000$$

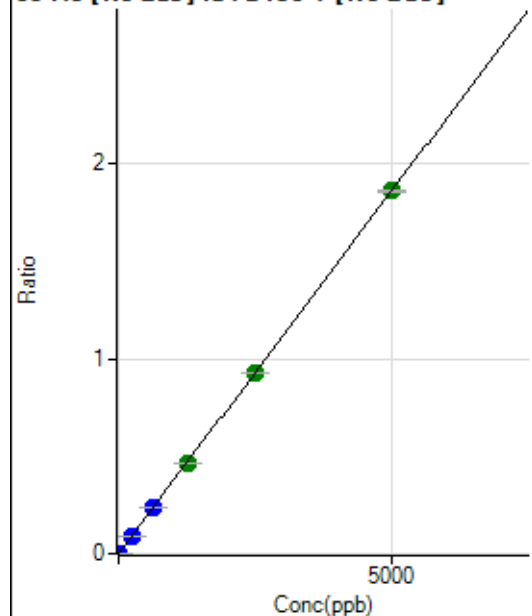
$$DL = 0.01759$$

$$BEC = 0.07792$$

Weight: <None>

Min Conc: 0

95 Mo [No Gas] ISTD:89 Y [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.56	0.0000	P	22.9
2	☐	0.500					
3	☐	5.000	4.332	26222.25	0.0016	P	0.9
4	☐	250.000	250.178	1495611.86	0.0930	P	0.4
5	☐	625.000	630.532	3766264.62	0.2343	P	0.8
6	☐	1250.000	1243.645	7413897.39	0.4621	A	0.8
7	☐	2500.000	2494.879	14602891.64	0.9270	A	0.4
8	☐	5000.000	5003.449	29125268.36	1.8591	A	0.4
9	☐			40806.79	0.0026	P	0.4

$$y = 3.7157\text{E-}004 * x + 3.4121\text{E-}006$$

$$R = 1.0000$$

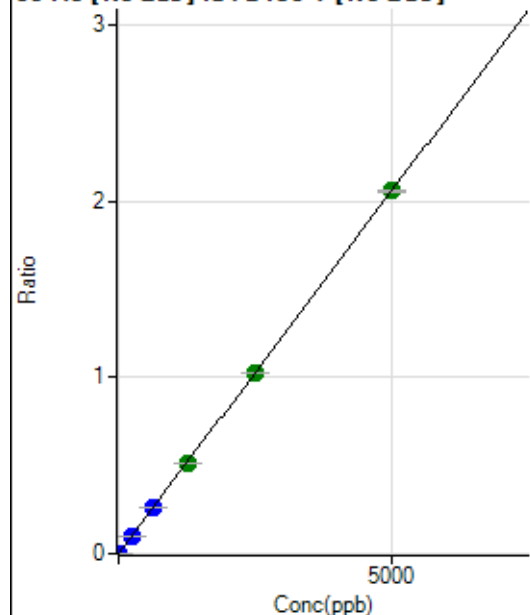
$$DL = 0.006318$$

$$BEC = 0.009183$$

Weight: <None>

Min Conc: 0

96 Mo [No Gas] ISTD:89 Y [No Gas]



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	119.45	0.0000	P	22.2
2	☐	0.500					
3	☐	5.000	4.412	29670.82	0.0018	P	0.6
4	☐	250.000	249.384	1653295.78	0.1028	P	0.7
5	☐	625.000	631.657	4183839.16	0.2603	P	1.2
6	☐	1250.000	1241.236	8205286.21	0.5114	A	0.2
7	☐	2500.000	2494.798	16192724.84	1.0279	A	0.4
8	☐	5000.000	5003.991	32300563.22	2.0618	A	0.6
9	☐			49250.11	0.0032	P	1.9

$$y = 4.1203\text{E-}004 * x + 7.3334\text{E-}006$$

$$R = 1.0000$$

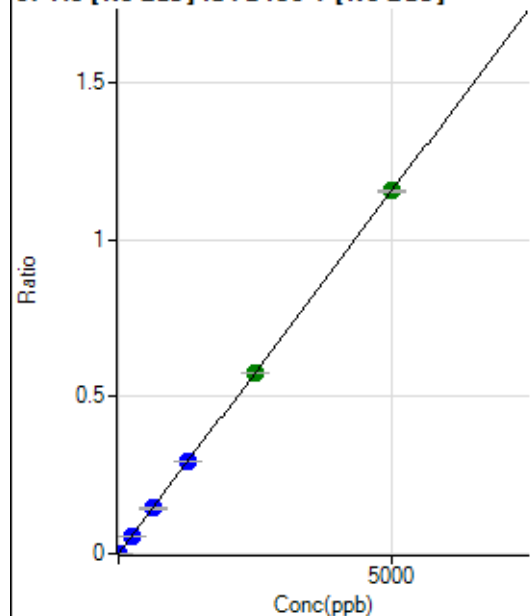
$$DL = 0.01187$$

$$BEC = 0.0178$$

Weight: <None>

Min Conc: 0

97 Mo [No Gas] ISTD:89 Y [No Gas]



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61.11	0.0000	P	15.4
2	☐	0.500					
3	☐	5.000	4.315	16268.24	0.0010	P	5.1
4	☐	250.000	248.009	922297.51	0.0573	P	0.7
5	☐	625.000	625.489	2324028.59	0.1446	P	1.0
6	☐	1250.000	1266.786	4697434.61	0.2928	P	0.4
7	☐	2500.000	2484.445	9045645.69	0.5742	A	0.3
8	☐	5000.000	5003.620	18117746.24	1.1565	A	0.5
9	☐			25629.61	0.0017	P	2.7

$$y = 2.3113\text{E-}004 * x + 3.7510\text{E-}006$$

$$R = 1.0000$$

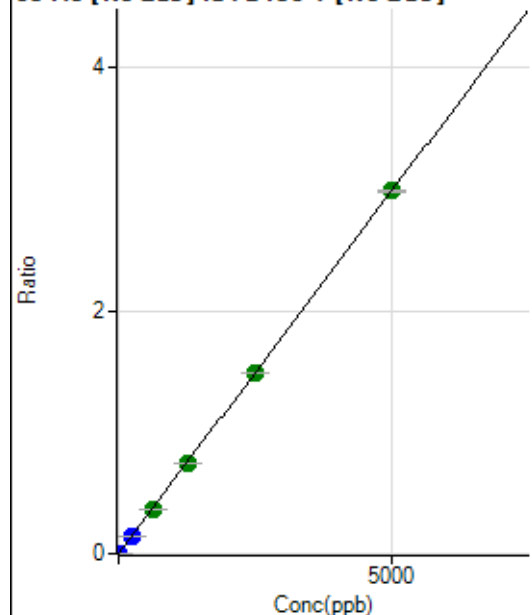
$$DL = 0.007476$$

$$BEC = 0.01623$$

Weight: <None>

Min Conc: 0

98 Mo [No Gas] ISTD:89 Y [No Gas]



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	102.78	0.0000	P	17.2
2	☐	0.500					
3	☐	5.000	4.337	42191.29	0.0026	P	2.5
4	☐	250.000	248.995	2391932.89	0.1487	P	0.4
5	☐	625.000	617.996	5931576.91	0.3690	A	1.3
6	☐	1250.000	1243.826	11915045.58	0.7427	A	0.6
7	☐	2500.000	2493.854	23455823.09	1.4890	A	0.3
8	☐	5000.000	5005.543	46820926.40	2.9887	A	0.6
9	☐			64137.03	0.0041	P	0.2

$$y = 5.9707\text{E-}004 * x + 6.3138\text{E-}006$$

$$R = 1.0000$$

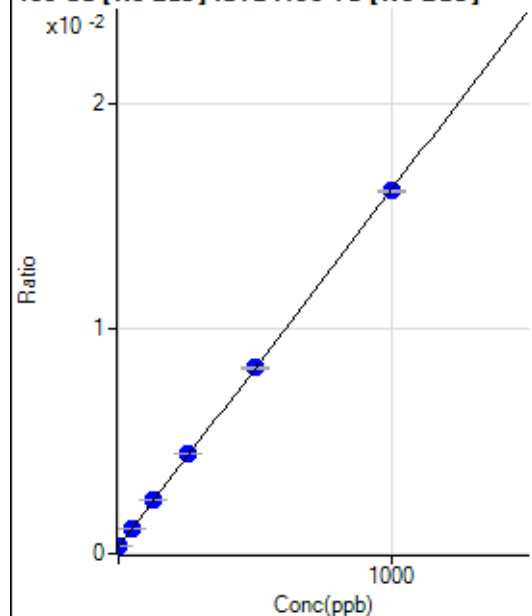
$$DL = 0.005451$$

$$BEC = 0.01057$$

Weight: <None>

Min Conc: 0

106 Cd [No Gas] ISTD:159 Tb [No Gas]



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5698.60	0.0003	P	2.7
2	☐	0.100					
3	☐	1.000	1.793	6184.96	0.0003	P	2.5
4	☐	50.000	51.280	20465.51	0.0011	P	1.3
5	☐	125.000	130.130	43949.71	0.0024	P	1.3
6	☐	250.000	259.581	83529.65	0.0044	P	1.0
7	☐	500.000	500.798	154339.71	0.0083	P	1.0
8	☐	1000.000	996.500	303250.88	0.0162	P	0.8
9	☐			5540.20	0.0003	P	4.9

$$y = 1.5900\text{E-}005 * x + 3.0922\text{E-}004$$

$$R = 0.9999$$

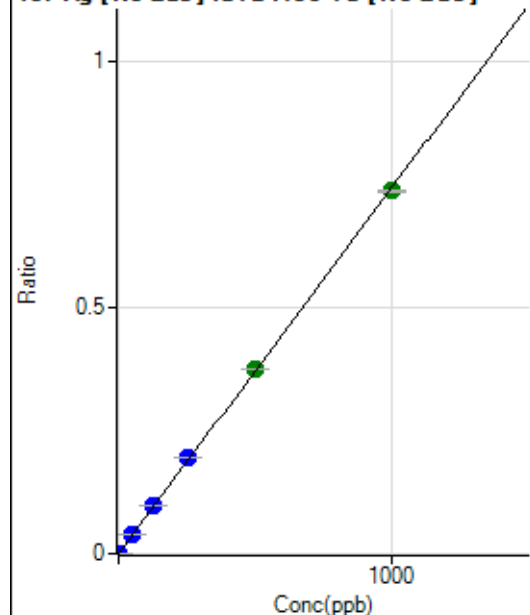
$$DL = 1.596$$

$$BEC = 19.45$$

Weight: <None>

Min Conc: 0

107 Ag [No Gas] ISTD:159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	169.45	0.0000	P	6.2
2	☐	0.100					
3	☐	1.000	0.973	13381.89	0.0007	P	0.8
4	☐	50.000	53.796	726082.62	0.0399	P	0.9
5	☐	125.000	133.216	1825576.93	0.0988	P	1.0
6	☐	250.000	263.342	3676656.81	0.1953	P	0.4
7	☐	500.000	505.785	6997837.92	0.3750	A	0.4
8	☐	1000.000	992.555	13816670.45	0.7360	A	0.7
9	☐			1266.78	0.0001	P	4.9

$$y = 7.4147\text{E-}004 * x + 9.1982\text{E-}006$$

$$R = 0.9999$$

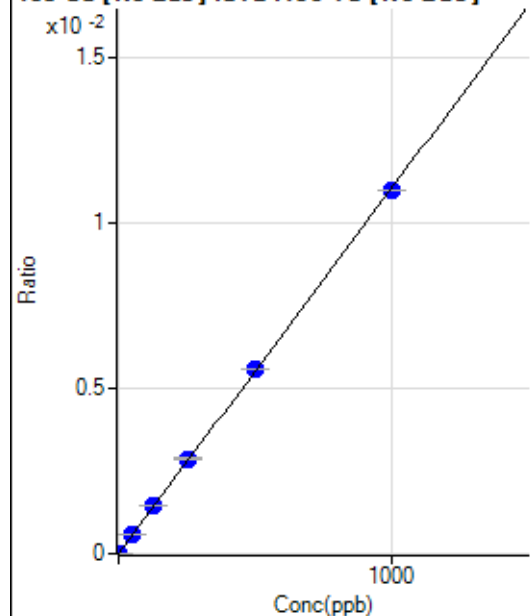
$$DL = 0.002298$$

$$BEC = 0.01241$$

Weight: <None>

Min Conc: 0

108 Cd [No Gas] ISTD:159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12.50	0.0000	P	100.
2	☐	0.100					
3	☐	1.000	0.900	194.45	0.0000	P	18.3
4	☐	50.000	53.892	10832.11	0.0006	P	2.5
5	☐	125.000	131.250	26770.04	0.0014	P	1.5
6	☐	250.000	259.939	54006.95	0.0029	P	1.3
7	☐	500.000	506.318	104235.15	0.0056	P	0.6
8	☐	1000.000	993.381	205745.83	0.0110	P	0.1
9	☐			38.89	0.0000	P	22.4

$$y = 1.1032\text{E-}005 * x + 6.8143\text{E-}007$$

$$R = 0.9999$$

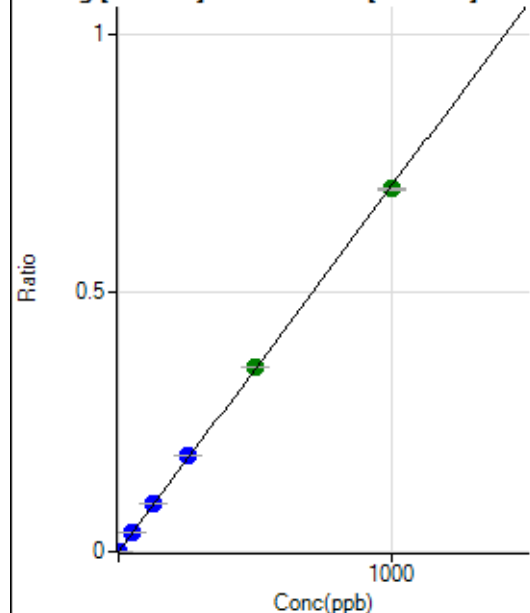
$$DL = 0.1859$$

$$BEC = 0.06177$$

Weight: <None>

Min Conc: 0

109 Ag [No Gas] ISTD:159 Tb [No Gas]



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	125.01	0.0000	P	18.3
2	☐	0.100					
3	☐	1.000	0.978	12770.18	0.0007	P	0.6
4	☐	50.000	53.835	692207.80	0.0380	P	0.2
5	☐	125.000	133.097	1737582.29	0.0940	P	0.3
6	☐	250.000	262.630	3493135.19	0.1855	P	0.0
7	☐	500.000	506.291	6673395.46	0.3576	A	0.2
8	☐	1000.000	992.493	13161870.70	0.7011	A	0.2
9	☐			1227.89	0.0001	P	5.7

$$y = 7.0638\text{E-}004 * x + 6.7893\text{E-}006$$

$$R = 0.9999$$

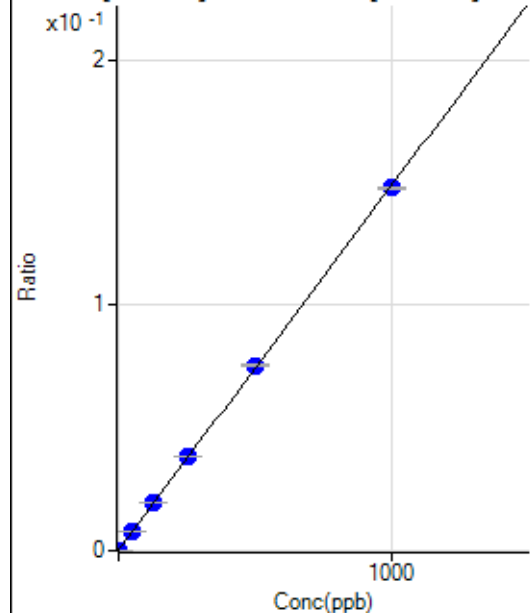
$$DL = 0.005283$$

$$BEC = 0.009611$$

Weight: <None>

Min Conc: 0

111 Cd [No Gas] ISTD:159 Tb [No Gas]



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3996.94	0.0002	P	2.9
2	☐	0.100					
3	☐	1.000	1.021	6751.99	0.0004	P	0.4
4	☐	50.000	52.805	146780.02	0.0081	P	0.6
5	☐	125.000	130.801	363274.73	0.0197	P	0.9
6	☐	250.000	258.990	728839.13	0.0387	P	0.5
7	☐	500.000	506.517	1408745.41	0.0755	P	0.7
8	☐	1000.000	993.629	2776530.75	0.1479	P	0.5
9	☐			4189.82	0.0002	P	4.5

$$y = 1.4863\text{E-}004 * x + 2.1688\text{E-}004$$

$$R = 0.9999$$

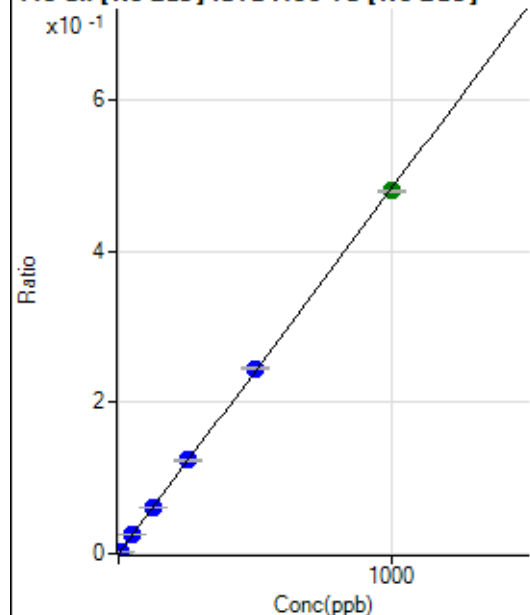
$$DL = 0.1288$$

$$BEC = 1.459$$

Weight: <None>

Min Conc: 0

118 Sn [No Gas] ISTD :159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1111.22	0.0001	P	16.3
2	☐	0.500					
3	☐	5.000	4.469	40632.01	0.0022	P	1.4
4	☐	50.000	51.909	457365.42	0.0251	P	0.5
5	☐	125.000	128.274	1146029.12	0.0620	P	0.8
6	☐	250.000	255.458	2324187.40	0.1234	P	0.1
7	☐	500.000	508.301	4581807.70	0.2456	P	0.9
8	☐	1000.000	993.983	9013737.96	0.4801	A	0.5
9	☐			12019.54	0.0006	P	1.0

$$y = 4.8298E-004 * x + 6.0290E-005$$

$$R = 0.9999$$

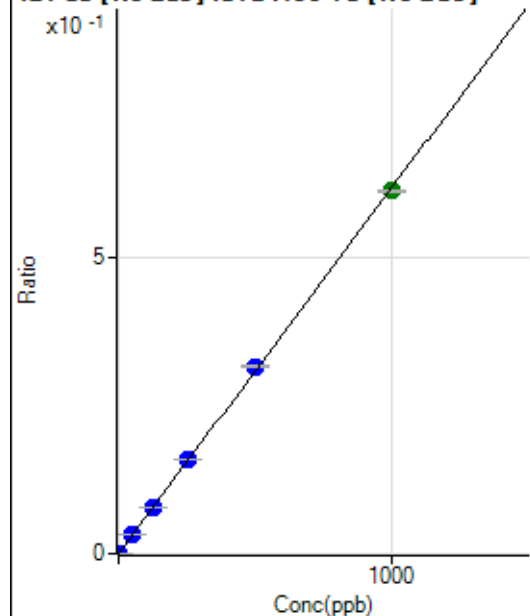
$$DL = 0.06114$$

$$BEC = 0.1248$$

Weight: <None>

Min Conc: 0

121 Sb [No Gas] ISTD :159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	113.89	0.0000	P	61.1
2	☐	0.200					
3	☐	2.000	1.817	20610.27	0.0011	P	2.6
4	☐	50.000	51.153	573601.82	0.0315	P	0.2
5	☐	125.000	127.617	1452937.90	0.0786	P	0.4
6	☐	250.000	256.174	2971410.07	0.1578	P	0.2
7	☐	500.000	511.023	5873936.76	0.3148	P	1.0
8	☐	1000.000	992.560	11479038.97	0.6114	A	0.2
9	☐			17533.77	0.0009	P	3.8

$$y = 6.1602E-004 * x + 6.1640E-006$$

$$R = 0.9999$$

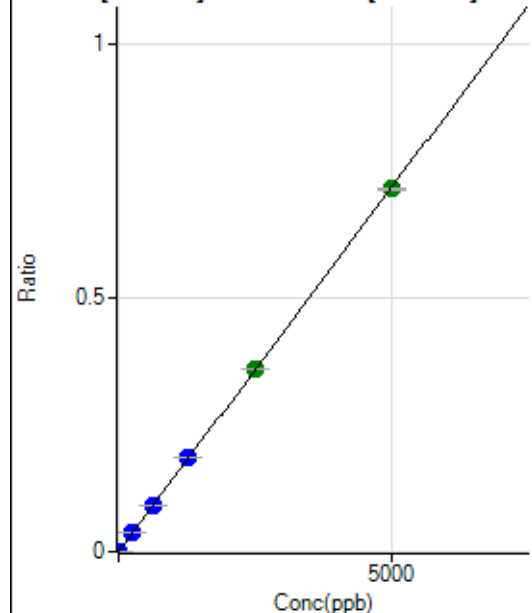
$$DL = 0.01834$$

$$BEC = 0.01001$$

Weight: <None>

Min Conc: 0

135 Ba [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.45	0.0000	P	10.7
2	☐	1.000					
3	☐	10.000	9.125	24049.26	0.0013	P	1.4
4	☐	250.000	257.169	672324.90	0.0369	P	1.2
5	☐	625.000	644.871	1711919.79	0.0926	P	0.3
6	☐	1250.000	1292.890	3496818.31	0.1857	P	0.2
7	☐	2500.000	2507.702	6721446.50	0.3602	A	0.4
8	☐	5000.000	4982.586	13436719.74	0.7157	A	0.4
9	☐			3903.50	0.0002	P	4.7

$$y = 1.4365E-004 * x + 2.4119E-006$$

$$R = 1.0000$$

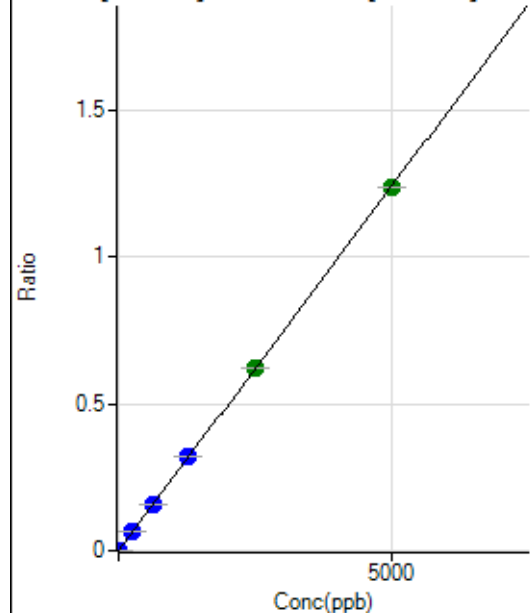
$$DL = 0.005366$$

$$BEC = 0.01679$$

Weight: <None>

Min Conc: 0

137 Ba [No Gas] ISTD :159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61.11	0.0000	P	28.6
2	☐	1.000					
3	☐	10.000	8.936	40674.75	0.0022	P	1.7
4	☐	250.000	258.334	1166851.75	0.0641	P	0.8
5	☐	625.000	643.969	2953583.49	0.1598	P	0.8
6	☐	1250.000	1297.599	6063480.00	0.3220	P	0.9
7	☐	2500.000	2510.121	11624314.41	0.6230	A	0.3
8	☐	5000.000	4980.254	23204064.58	1.2360	A	0.1
9	☐			6779.71	0.0004	P	6.3

$$y = 2.4818E-004 * x + 3.3190E-006$$

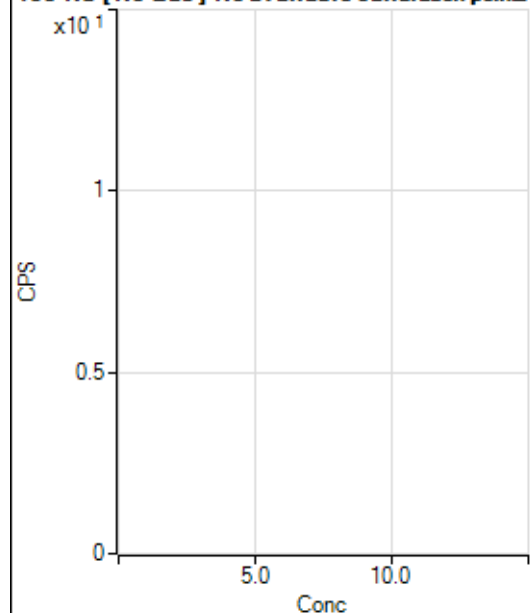
$$R = 0.9999$$

$$DL = 0.01148$$

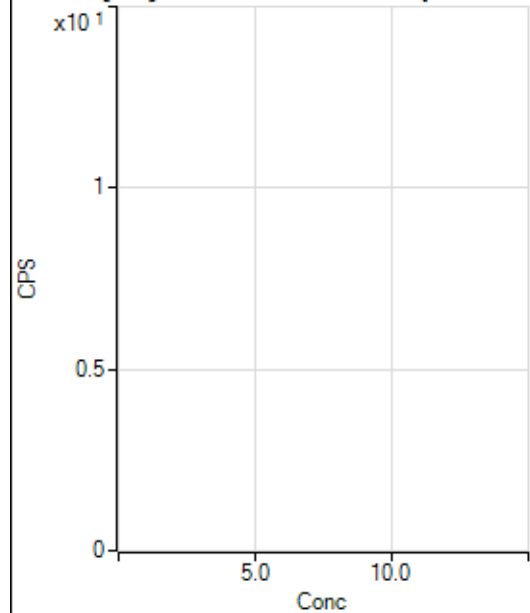
$$BEC = 0.01337$$

Weight: <None>

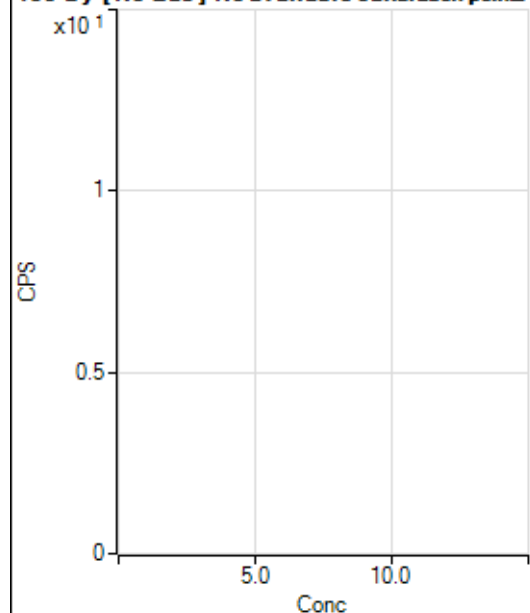
Min Conc: 0

150 Nd [No Gas] No available calibration points

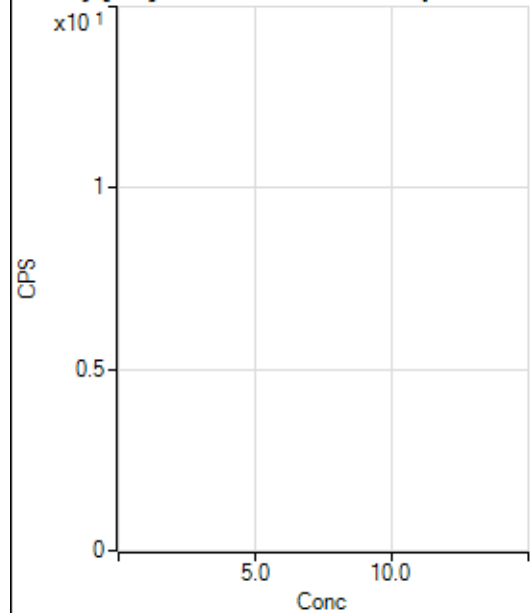
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	91.7
2	☐						
3	☐			2.22		P	173.
4	☐			26.67		P	43.3
5	☐			131.11		P	28.9
6	☐			204.45		P	28.1
7	☐			337.79		P	15.3
8	☐			884.51		P	5.8
9	☐			120.01		P	36.4

150 Nd [He] No available calibration points

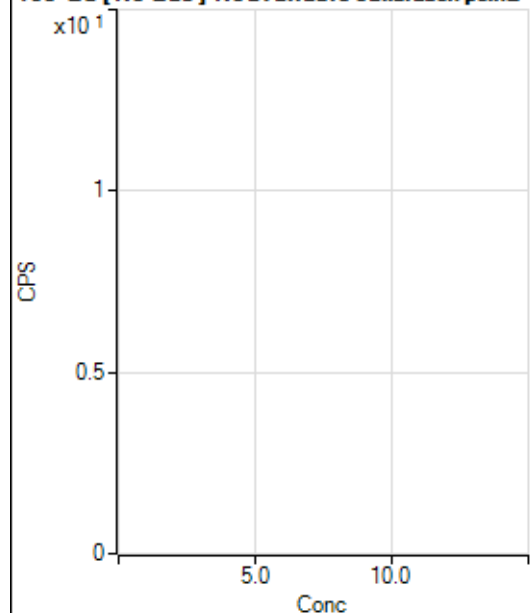
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐						
3	☐			3.33		P	173.
4	☐			10.00		P	66.7
5	☐			15.56		P	12.4
6	☐			40.00		P	44.1
7	☐			63.33		P	24.1
8	☐			158.89		P	5.3
9	☐			70.00		P	31.2

156 Dy [No Gas] No available calibration points

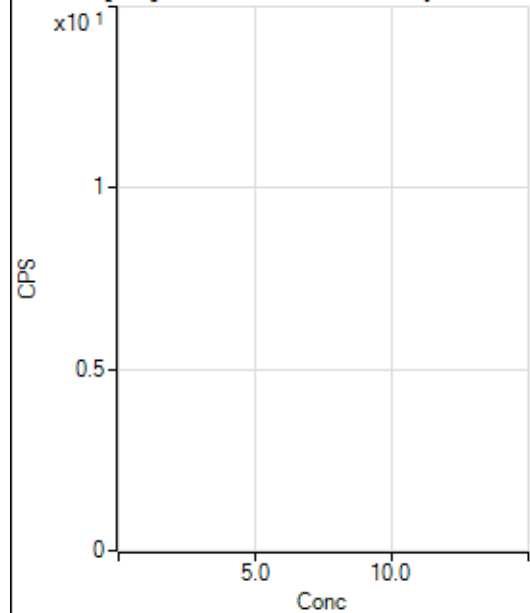
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	NaN
2	☐						
3	☐			13.89		P	91.6
4	☐			22.22		P	94.4
5	☐			52.78		P	39.7
6	☐			25.00		P	57.7
7	☐			116.67		P	49.5
8	☐			272.24		P	20.4
9	☐			141.67		P	21.2

156 Dy [He] No available calibration points

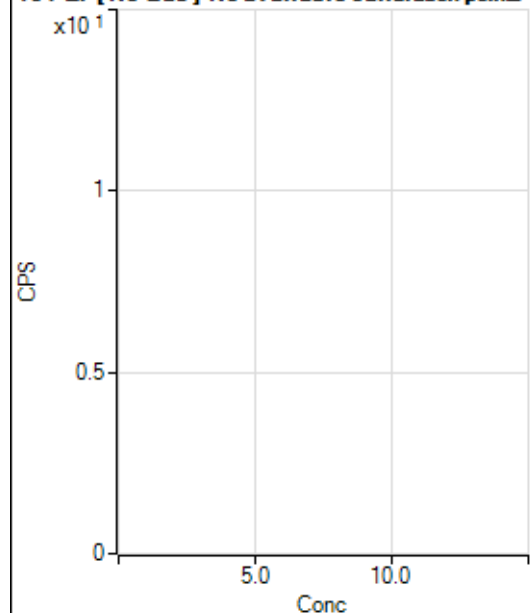
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐						
3	☐			4.45		P	86.6
4	☐			6.67		P	86.6
5	☐			31.11		P	48.3
6	☐			55.56		P	15.1
7	☐			92.22		P	7.5
8	☐			208.89		P	13.9
9	☐			67.78		P	28.0

160 Gd [No Gas] Noavailable calibration poin...

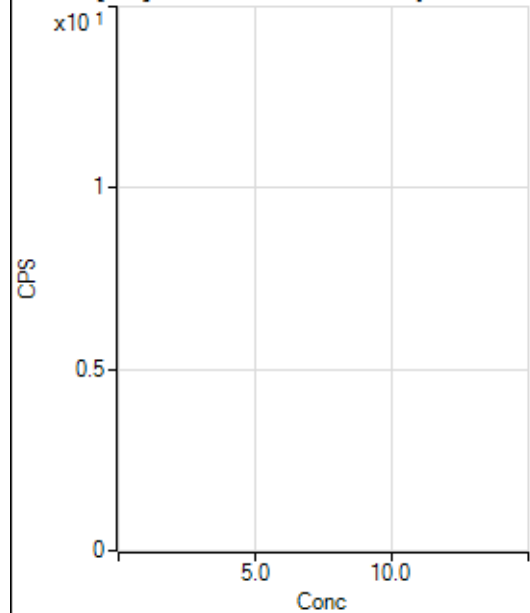
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			150.01		P	22.2
2	☐						
3	☐			136.12		P	41.7
4	☐			150.01		P	20.0
5	☐			172.23		P	32.9
6	☐			219.46		P	4.4
7	☐			169.45		P	25.2
8	☐			283.35		P	16.4
9	☐			250.02		P	17.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			236.67		P	2.8
2	☐						
3	☐			260.01		P	10.2
4	☐			225.56		P	21.4
5	☐			217.78		P	12.4
6	☐			245.56		P	4.1
7	☐			226.67		P	10.6
8	☐			296.67		P	2.2
9	☐			266.67		P	5.7

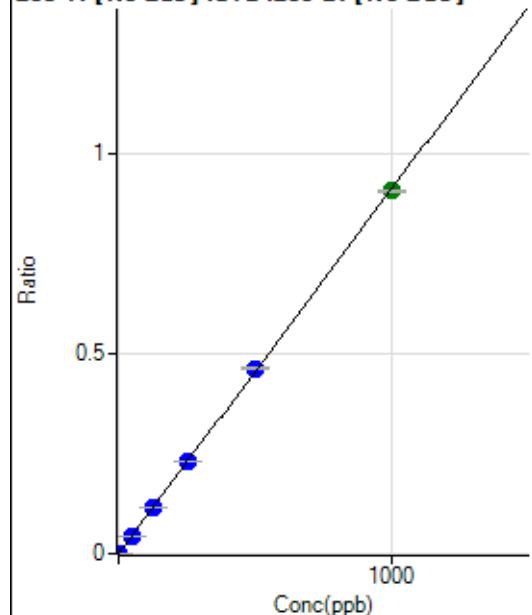
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			72.22		P	52.0
2	☐						
3	☐			63.89		P	19.9
4	☐			52.78		P	18.2
5	☐			55.56		P	8.7
6	☐			61.12		P	34.3
7	☐			47.22		P	27.0
8	☐			158.34		P	13.9
9	☐			72.23		P	54.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			42.22		P	9.1
2	☐						
3	☐			40.00		P	8.3
4	☐			33.33		P	26.5
5	☐			32.22		P	26.0
6	☐			38.89		P	43.1
7	☐			38.89		P	17.8
8	☐			72.22		P	33.4
9	☐			56.67		P	23.5

203 Tl [No Gas] ISTD :209 Bi [No Gas]



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	105.56	0.0000	P	51.4
2	☐	0.100					
3	☐	1.000	0.906	9556.64	0.0008	P	2.0
4	☐	50.000	49.176	509259.29	0.0448	P	0.4
5	☐	125.000	124.777	1299615.04	0.1136	P	0.7
6	☐	250.000	252.758	2660084.91	0.2301	P	0.5
7	☐	500.000	508.333	5284180.72	0.4627	P	0.9
8	☐	1000.000	995.213	10296786.77	0.9058	A	0.6
9	☐			3714.58	0.0003	P	5.2

$$y = 9.1013\text{E-}004 * x + 9.1085\text{E-}006$$

$$R = 0.9999$$

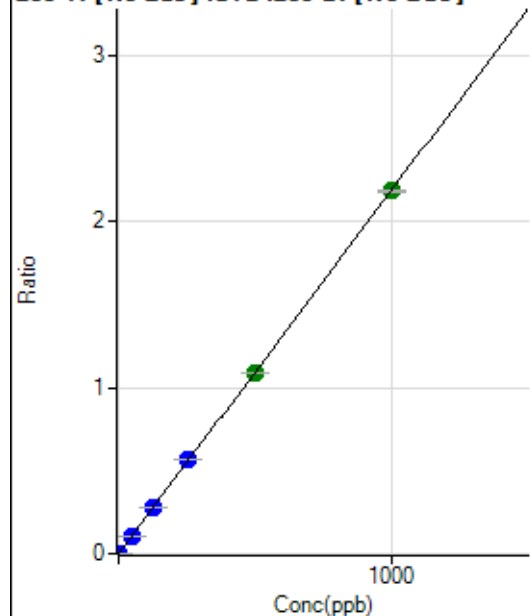
$$DL = 0.01542$$

$$BEC = 0.01001$$

Weight: <None>

Min Conc: 0

205 Tl [No Gas] ISTD :209 Bi [No Gas]



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	244.46	0.0000	P	22.8
2	☐	0.100					
3	☐	1.000	0.898	22737.12	0.0020	P	1.4
4	☐	50.000	49.583	1232952.16	0.1084	P	0.5
5	☐	125.000	127.184	3180897.86	0.2780	P	0.6
6	☐	250.000	260.804	6590688.04	0.5700	P	0.1
7	☐	500.000	497.651	12421728.66	1.0876	A	0.6
8	☐	1000.000	998.221	24799338.40	2.1816	A	0.8
9	☐			9209.05	0.0009	P	1.7

$$y = 0.0022 * x + 2.1105\text{E-}005$$

$$R = 0.9999$$

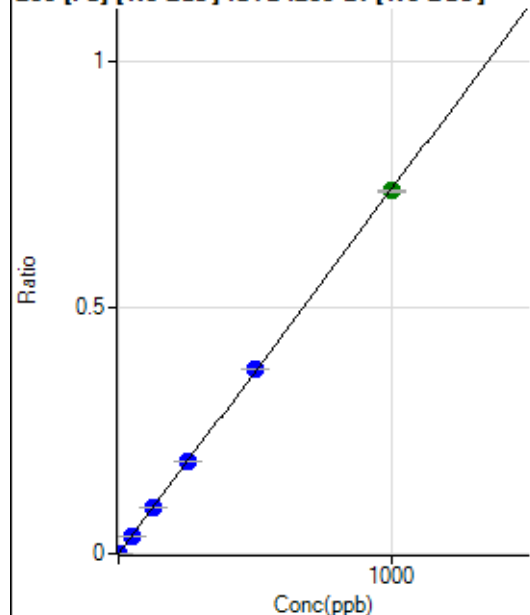
$$DL = 0.0066$$

$$BEC = 0.009657$$

Weight: <None>

Min Conc: 0

206 [Pb] [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	500.02	0.0000	P	7.4
2	☐	0.100					
3	☐	1.000	0.879	7950.77	0.0007	P	3.5
4	☐	50.000	49.325	415463.76	0.0365	P	0.3
5	☐	125.000	126.267	1069053.74	0.0934	P	0.5
6	☐	250.000	253.976	2172321.78	0.1879	P	0.2
7	☐	500.000	506.809	4281326.28	0.3749	P	0.4
8	☐	1000.000	995.477	8369437.46	0.7362	A	0.7
9	☐			18882.32	0.0018	P	2.8

$$y = 7.3955\text{E-}004 * x + 4.3164\text{E-}005$$

$$R = 1.0000$$

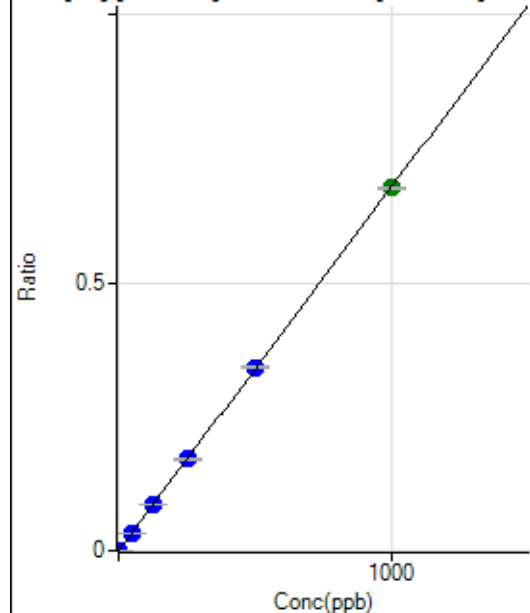
$$DL = 0.0129$$

$$BEC = 0.05837$$

Weight: <None>

Min Conc: 0

207 [Pb] [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	396.32	0.0000	P	4.8
2	☐	0.100					
3	☐	1.000	0.872	7174.37	0.0006	P	2.7
4	☐	50.000	48.767	376950.94	0.0331	P	0.8
5	☐	125.000	125.020	971425.85	0.0849	P	0.6
6	☐	250.000	251.151	1971511.07	0.1705	P	0.6
7	☐	500.000	504.663	3912702.00	0.3426	P	0.5
8	☐	1000.000	997.440	7696465.86	0.6770	A	0.6
9	☐			16538.45	0.0016	P	2.2

$$y = 6.7875\text{E-}004 * x + 3.4213\text{E-}005$$

$$R = 1.0000$$

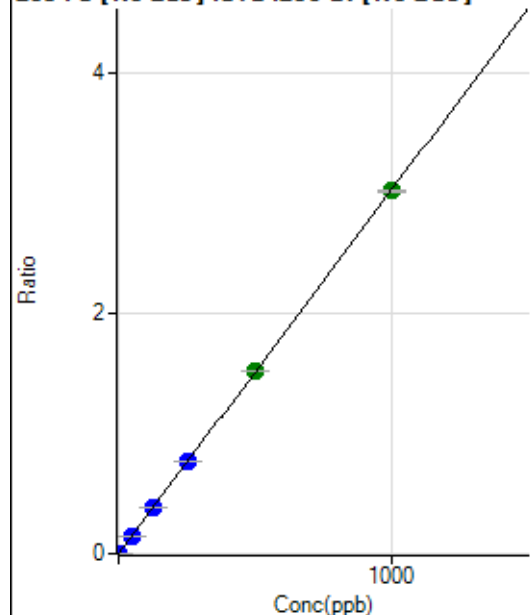
$$DL = 0.007228$$

$$BEC = 0.05041$$

Weight: <None>

Min Conc: 0

208 Pb [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1826.04	0.0002	P	10.3
2	☐	0.100					
3	☐	1.000	0.882	32407.13	0.0028	P	1.2
4	☐	50.000	49.239	1697253.07	0.1492	P	0.6
5	☐	125.000	126.363	4378467.11	0.3826	P	0.4
6	☐	250.000	254.823	8920175.84	0.7714	P	0.6
7	☐	500.000	501.900	17352538.20	1.5193	A	0.1
8	☐	1000.000	997.712	34330706.27	3.0200	A	0.7
9	☐			76102.04	0.0071	P	0.2

$$y = 0.0030 * x + 1.5763E-004$$

$$R = 1.0000$$

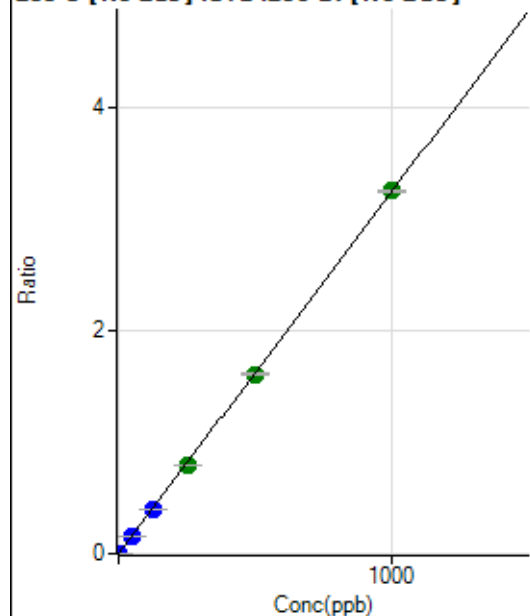
$$DL = 0.01617$$

$$BEC = 0.05208$$

Weight: <None>

Min Conc: 0

238 U [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	100.00	0.0000	P	33.0
2	☐	0.100					
3	☐	1.000	0.866	32265.93	0.0028	P	2.9
4	☐	50.000	48.088	1771662.71	0.1557	P	0.9
5	☐	125.000	124.055	4597307.74	0.4018	P	1.0
6	☐	250.000	243.303	9110895.43	0.7879	A	0.7
7	☐	500.000	497.086	18386110.83	1.6098	A	0.4
8	☐	1000.000	1003.345	36937210.90	3.2493	A	0.4
9	☐			2189.19	0.0002	P	2.3

$$y = 0.0032 * x + 8.6265E-006$$

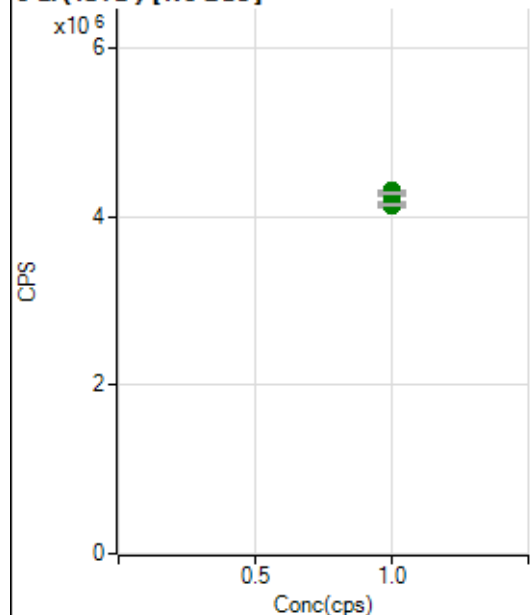
$$R = 1.0000$$

$$DL = 0.00264$$

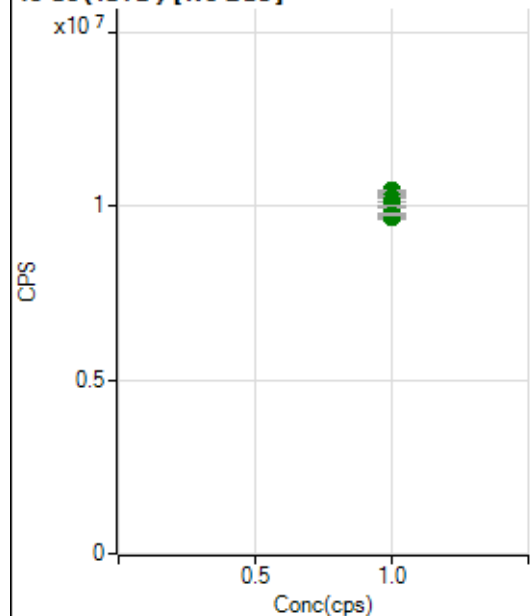
$$BEC = 0.002664$$

Weight: <None>

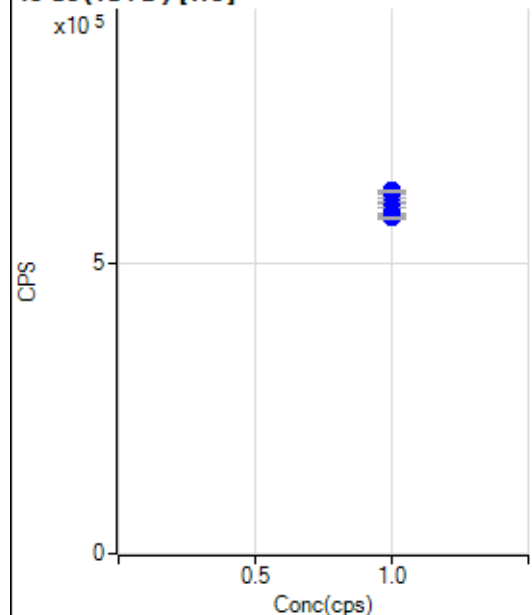
Min Conc: 0

6 Li (ISTD) [No Gas]

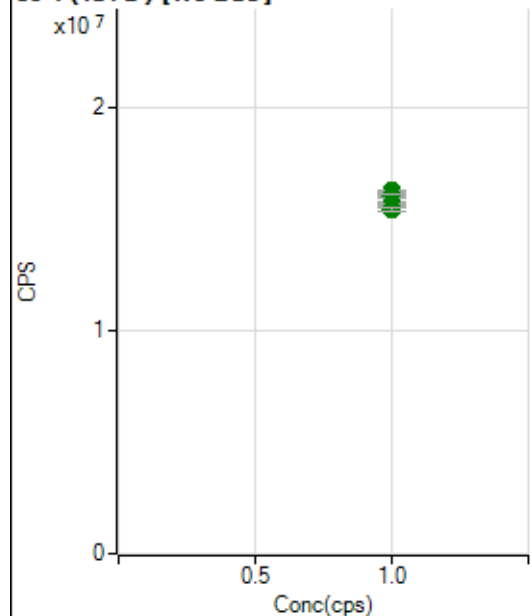
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4302940.59		A	0.5
2	☐	1.000					
3	☐	1.000		4265861.36		A	0.3
4	☐	1.000		4248934.35		A	0.1
5	☐	1.000		4263356.74		A	0.8
6	☐	1.000		4276294.28		A	0.5
7	☐	1.000		4160943.65		A	0.4
8	☐	1.000		4121676.81		A	0.9
9	☐	1.000		4137098.10		A	0.6

45 Sc (ISTD) [No Gas]

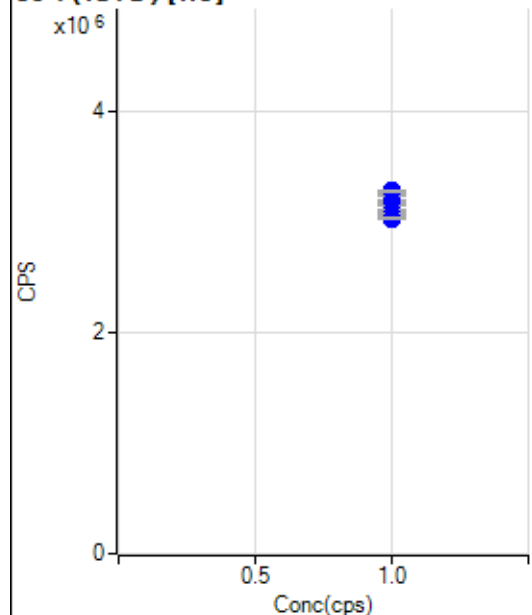
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10358210.91		A	0.1
2	☐	1.000					
3	☐	1.000		10430268.20		A	0.4
4	☐	1.000		10252518.20		A	0.7
5	☐	1.000		10124623.58		A	0.2
6	☐	1.000		9999525.92		A	0.5
7	☐	1.000		9693462.28		A	0.3
8	☐	1.000		9652786.85		A	0.6
9	☐	1.000		9750497.01		A	0.8

45 Sc (ISTD) [He]

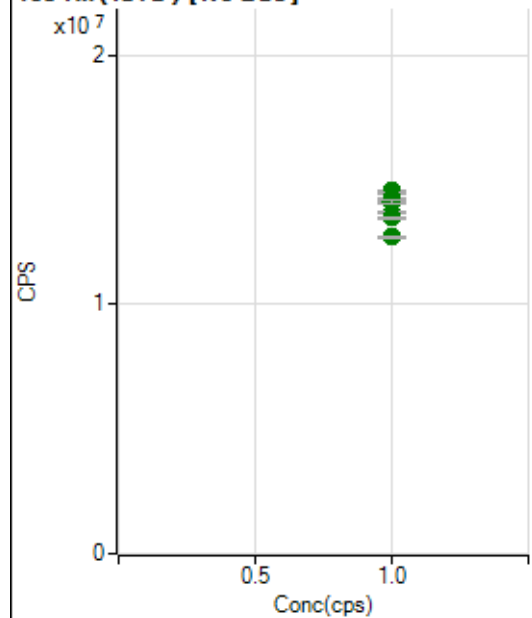
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		610223.18		P	0.1
2	☐	1.000					
3	☐	1.000		620786.51		P	0.6
4	☐	1.000		622785.99		P	0.5
5	☐	1.000		602286.24		P	0.6
6	☐	1.000		592968.02		P	0.1
7	☐	1.000		582892.78		P	0.4
8	☐	1.000		578692.06		P	0.3
9	☐	1.000		576174.90		P	0.6

89 Y (ISTD) [No Gas]

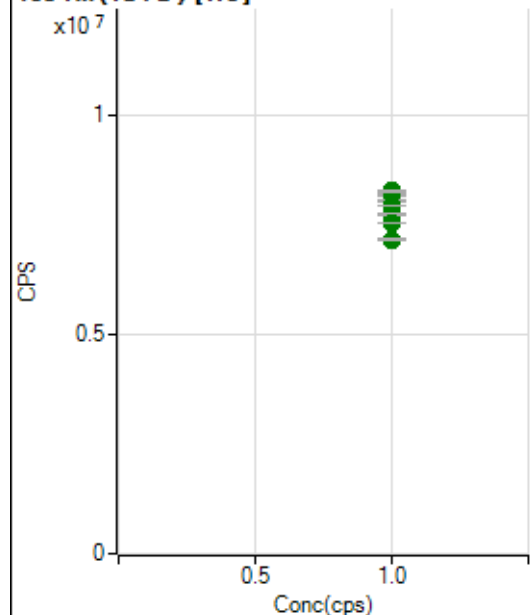
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		16285149.06		A	0.4
2	☐	1.000					
3	☐	1.000		16254895.45		A	0.7
4	☐	1.000		16088548.09		A	0.3
5	☐	1.000		16075668.65		A	0.5
6	☐	1.000		16043745.73		A	0.8
7	☐	1.000		15752567.26		A	0.1
8	☐	1.000		15666209.63		A	0.1
9	☐	1.000		15463527.69		A	1.2

89 Y(ISTD) [He]

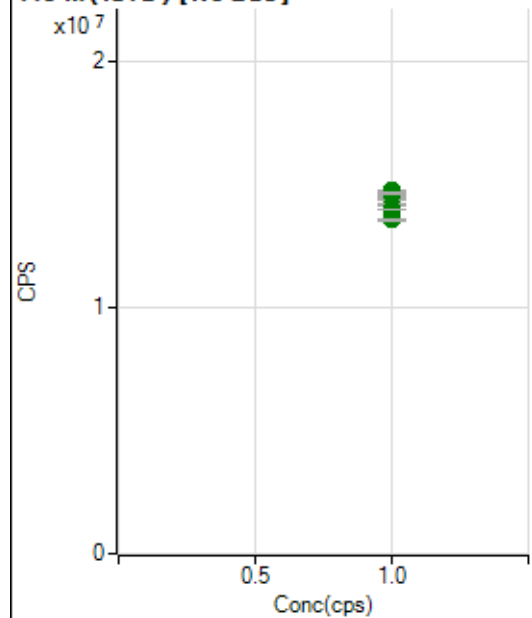
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3188638.42		P	0.7
2	☐	1.000					
3	☐	1.000		3257413.49		P	0.5
4	☐	1.000		3287545.23		P	0.3
5	☐	1.000		3187049.47		P	0.3
6	☐	1.000		3156482.38		P	0.2
7	☐	1.000		3109213.08		P	0.2
8	☐	1.000		3075391.38		P	0.4
9	☐	1.000		3038514.30		P	0.6

103 Rh(ISTD) [No Gas]

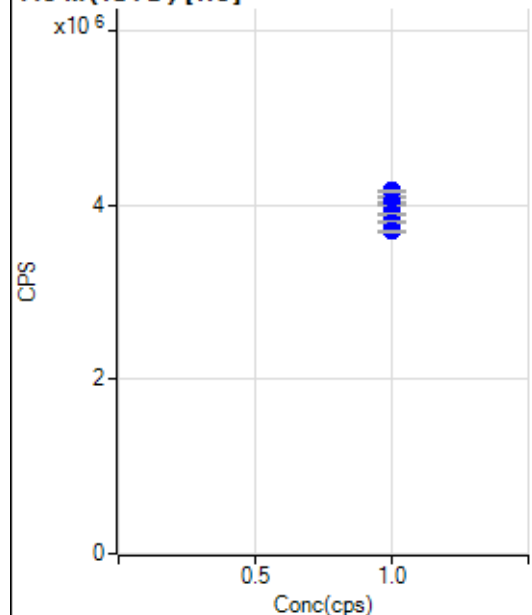
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14561906.40		A	0.6
2	☐	1.000					
3	☐	1.000		14459404.49		A	0.5
4	☐	1.000		14256084.69		A	0.3
5	☐	1.000		14133113.86		A	0.6
6	☐	1.000		14144817.85		A	0.9
7	☐	1.000		13690050.13		A	0.8
8	☐	1.000		13477722.52		A	0.9
9	☐	1.000		12714447.07		A	0.7

103 Rh (ISTD) [He]

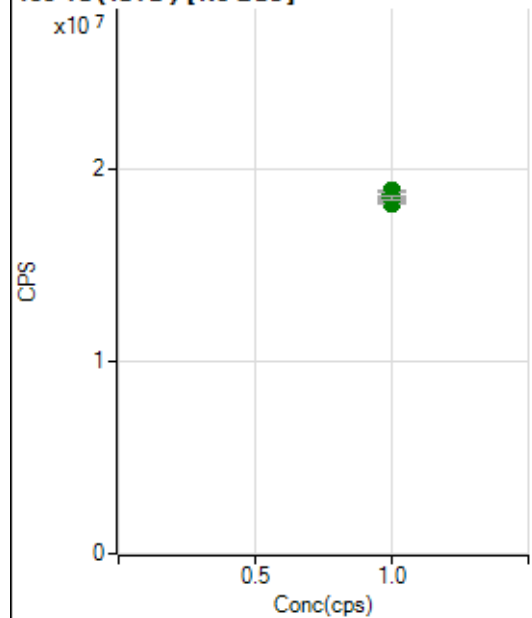
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8162407.38		A	0.2
2	☐	1.000					
3	☐	1.000		8240924.60		A	0.9
4	☐	1.000		8272146.89		A	0.4
5	☐	1.000		8026007.66		A	0.6
6	☐	1.000		7927691.55		A	0.3
7	☐	1.000		7734799.89		A	0.2
8	☐	1.000		7539867.53		A	0.4
9	☐	1.000		7162885.03		A	0.3

115 In (ISTD) [No Gas]

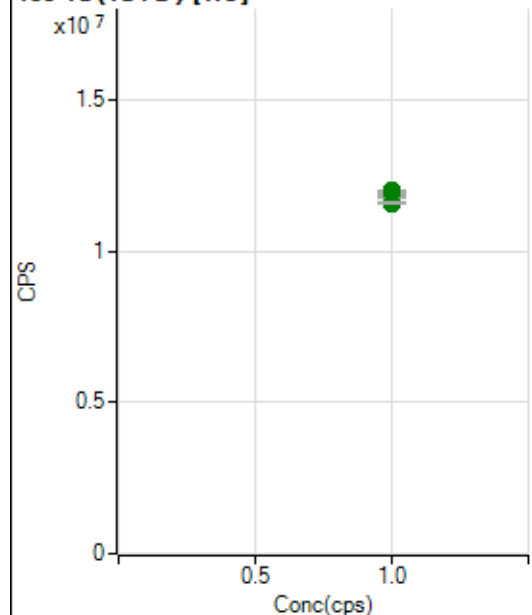
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14755784.91		A	0.3
2	☐	1.000					
3	☐	1.000		14660569.96		A	0.7
4	☐	1.000		14518019.08		A	0.3
5	☐	1.000		14459141.87		A	0.5
6	☐	1.000		14636726.02		A	0.6
7	☐	1.000		14184924.16		A	0.3
8	☐	1.000		14009670.34		A	0.3
9	☐	1.000		13579413.91		A	0.9

115 In (ISTD) [He]

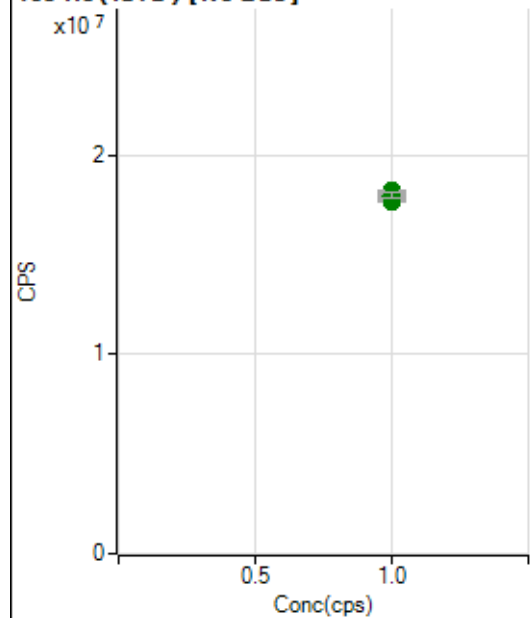
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4011422.86		P	0.7
2	☐	1.000					
3	☐	1.000		4092422.94		P	0.8
4	☐	1.000		4166039.42		P	0.8
5	☐	1.000		4042626.63		P	0.4
6	☐	1.000		3993480.26		P	0.1
7	☐	1.000		3906974.12		P	0.5
8	☐	1.000		3804155.39		P	0.7
9	☐	1.000		3701121.30		P	0.8

159 Tb (ISTD) [No Gas]

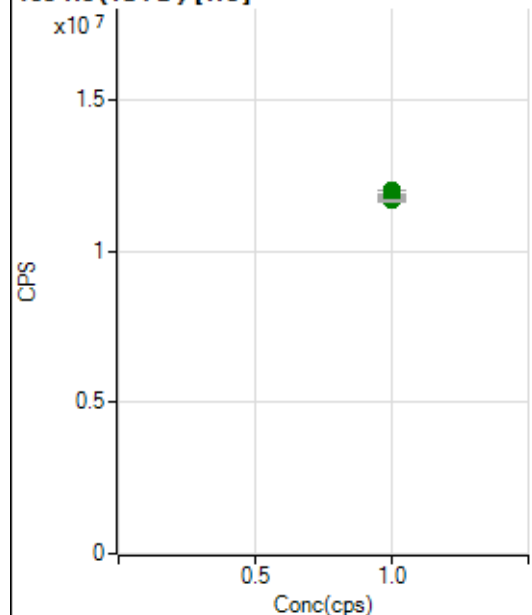
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		18426424.03		A	0.7
2	☐	1.000					
3	☐	1.000		18313968.48		A	0.5
4	☐	1.000		18199266.26		A	0.3
5	☐	1.000		18480285.84		A	0.2
6	☐	1.000		18828467.08		A	0.5
7	☐	1.000		18659495.14		A	0.6
8	☐	1.000		18773480.28		A	0.3
9	☐	1.000		18492670.00		A	0.9

159 Tb (ISTD) [He]

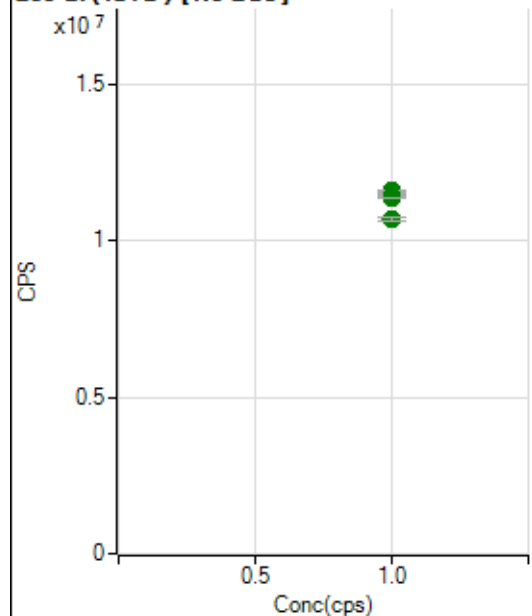
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11755286.35		A	0.3
2	☐	1.000					
3	☐	1.000		11847562.46		A	0.9
4	☐	1.000		11996242.32		A	0.3
5	☐	1.000		11799625.80		A	0.9
6	☐	1.000		11898092.74		A	0.3
7	☐	1.000		11757124.82		A	0.2
8	☐	1.000		11752541.63		A	0.3
9	☐	1.000		11593952.33		A	0.7

165 Ho (ISTD) [No Gas]

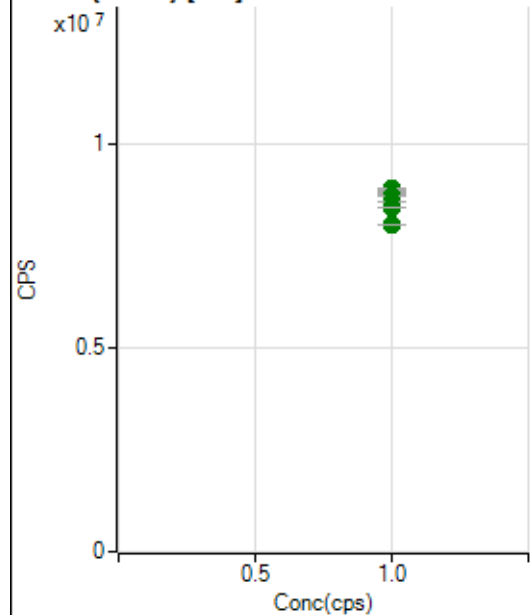
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		17947869.84		A	0.2
2	☐	1.000					
3	☐	1.000		17657939.63		A	0.5
4	☐	1.000		17627548.83		A	0.3
5	☐	1.000		17841139.81		A	0.6
6	☐	1.000		18187491.72		A	0.4
7	☐	1.000		18063406.48		A	0.1
8	☐	1.000		18148326.45		A	0.6
9	☐	1.000		17975644.33		A	1.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11803295.10		A	0.4
2	☐	1.000					
3	☐	1.000		11852956.21		A	0.9
4	☐	1.000		11999253.43		A	0.1
5	☐	1.000		11788745.10		A	1.1
6	☐	1.000		11897246.77		A	0.3
7	☐	1.000		11839832.88		A	0.5
8	☐	1.000		11778011.63		A	0.0
9	☐	1.000		11699045.10		A	0.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11584651.35		A	0.3
2	☐	1.000					
3	☐	1.000		11464392.05		A	0.2
4	☐	1.000		11376017.33		A	0.4
5	☐	1.000		11443232.75		A	0.5
6	☐	1.000		11562866.91		A	0.2
7	☐	1.000		11421468.72		A	0.4
8	☐	1.000		11367852.75		A	0.4
9	☐	1.000		10663425.88		A	1.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8796324.31		A	0.2
2	☐	1.000					
3	☐	1.000		8817704.94		A	0.9
4	☐	1.000		8917407.44		A	0.3
5	☐	1.000		8758158.27		A	0.9
6	☐	1.000		8758587.65		A	0.2
7	☐	1.000		8603585.56		A	0.4
8	☐	1.000		8457241.40		A	0.3
9	☐	1.000		8033991.34		A	0.2

US EPA Tune Check Sample Report

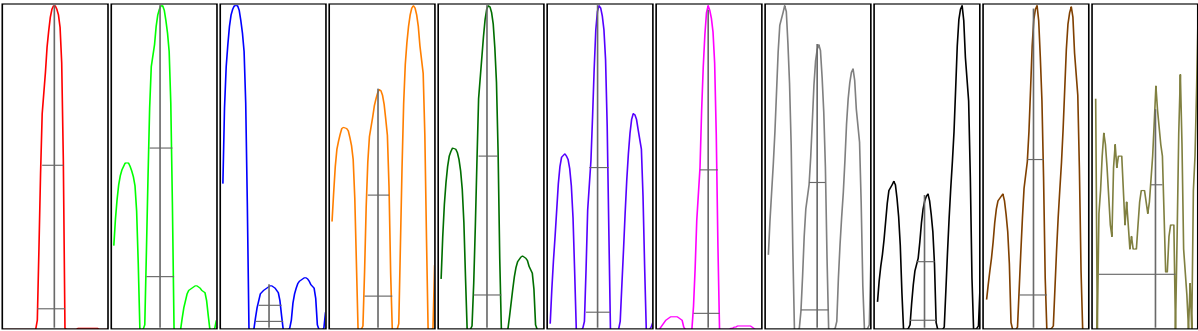
Batch Folder D:\ICP-MS Data\P70302818 MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	12045	0.77	5.00	
24	147407	1.07	5.00	
25	19858	0.81	5.00	
26	23400	1.02	5.00	
59	96447	1.14	5.00	
113	12960	1.04	5.00	
115	214613	1.19	5.00	
206	29214	0.95	5.00	
207	27153	1.22	5.00	
208	63404	1.09	5.00	
220	1	29.21		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	11914	11988	12070	12133	12122
24	145562	146292	147244	148497	149438
25	19691	19683	19930	20032	19955
26	23114	23192	23504	23508	23684
59	94902	95844	96785	96955	97748
113	12759	12907	12989	13114	13033
115	210998	213240	214863	216911	217054
206	28772	29115	29387	29360	29435
207	26713	26921	27490	27216	27427
208	62504	62893	63552	63925	64148
220	1	1	0	1	1

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	19429	9.00	8.9 - 9.1		0.786	0.900	
24	231634	23.90	23.9 - 24.1		0.795	0.900	
25	31118	24.90	24.9 - 25.1		0.791	0.900	
26	36900	25.90	25.9 - 26.1		0.793	0.900	
59	165138	58.90	58.9 - 59.1		0.791	0.900	
113	25327	112.95	112.9 - 113.1		0.733	0.900	
115	419858	115.00	114.9 - 115.1		0.755	0.900	
206	57694	206.00	205.9 - 206.1		0.786	0.900	
207	52116	206.95	206.9 - 207.1		0.738	0.900	
208	125146	207.95	207.9 - 208.1		0.774	0.900	
220	1	220.35	-		2.200		

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 268 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.80	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.37 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	11.0	V	Deflect	15.0	V
Extract 2	-235.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-110	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination		5.0 V
He Flow	0.0	mL/min	OctP RF	190	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	29657	0.23	
89	81480	0.35	
205	23817	0.38	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	29625	29643	29585	29659	29771
89	81463	81536	81181	81292	81927
205	23782	23923	23685	23823	23872

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.80	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.37 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	11.4	V	Deflect	2.8	V
Extract 2	-205.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-95	V	Cell Exit	-60	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	Yes		OctP Bias	-18.0	V	Energy Discrimination		5.0 V
He Flow	4.1	mL/min	OctP RF	200	V			