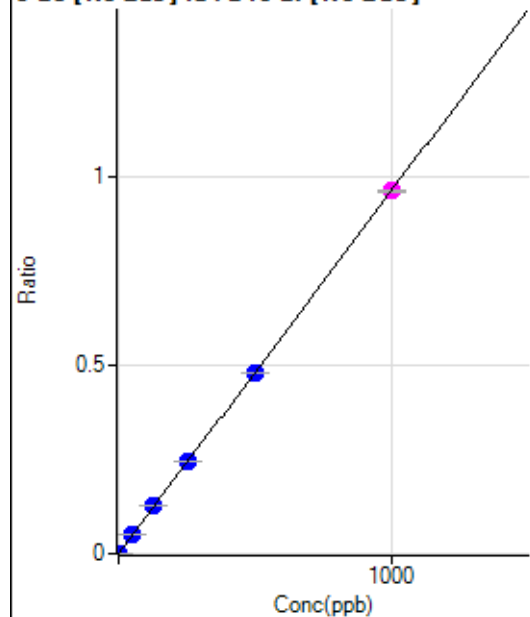


Batch Folder: D:\ICP-MS Data\1\DATA\P7062420MS.b\
Analysis File: P7062420MS.batch.bin
DA Date-Time: 2020-06-25 17:42:49
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2020-06-24 12:56:38
2	006CALS.d	S02	2020-06-24 13:00:21
3	008CALS.d	S03	2020-06-24 13:09:12
4	009CALS.d	S04	2020-06-24 13:13:45
5	010CALS.d	S05	2020-06-24 13:17:32
6	011CALS.d	S06	2020-06-24 13:21:11
7	012CALS.d	S07	2020-06-24 13:24:45
8	014CALS.d	S08	2020-06-24 13:35:29

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	85.19	0.0000	P	8.0
2	☐	1.000	0.953	4280.35	0.0009	P	2.6
3	☐	50.000	51.180	223934.30	0.0492	P	0.2
4	☐	125.000	131.817	553593.58	0.1268	P	1.0
5	☐	250.000	253.374	1059976.66	0.2437	P	0.6
6	☐	500.000	497.249	2094151.09	0.4783	P	0.6
7	☐	1000.000	999.621	4034526.63	0.9614	M	0.5
8	☐			383.35	0.0001	P	7.1

$$y = 9.6179\text{E-}004 * x + 1.8574\text{E-}005$$

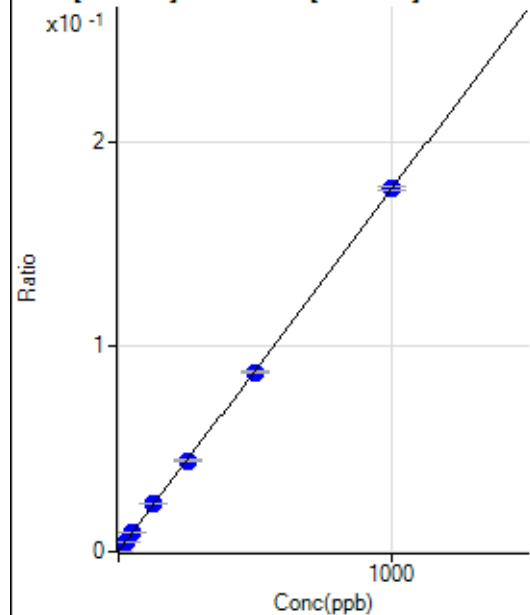
$$R = 1.0000$$

$$DL = 0.004614$$

$$BEC = 0.01931$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	930.62	0.0002	P	13.9
2	☐	25.000	24.375	20592.55	0.0045	P	0.5
3	☐	50.000	52.037	42652.84	0.0094	P	1.2
4	☐	125.000	131.603	102220.19	0.0234	P	0.3
5	☐	250.000	250.622	193087.10	0.0444	P	1.2
6	☐	500.000	495.067	383136.49	0.0875	P	0.8
7	☐	1000.000	1001.399	741846.06	0.1768	P	0.9
8	☐			9386.60	0.0025	P	2.7

$$y = 1.7634\text{E-}004 * x + 2.0280\text{E-}004$$

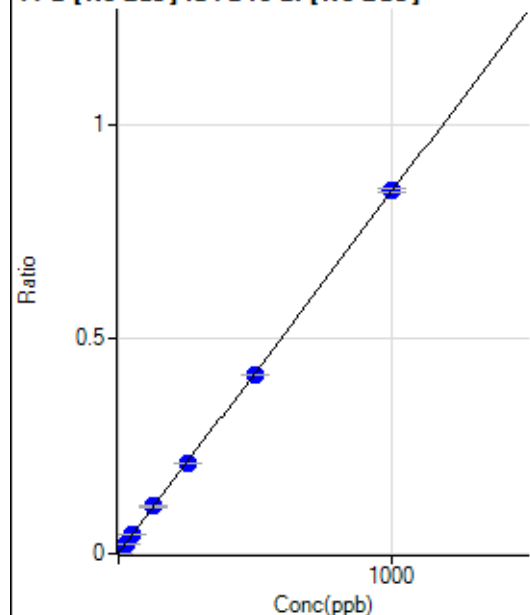
$$R = 1.0000$$

$$DL = 0.4797$$

$$BEC = 1.15$$

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	4698.18	0.0010	P	4.0
2	☐	25.000	23.480	95205.97	0.0208	P	1.6
3	☐	50.000	51.280	201181.61	0.0442	P	2.0
4	☐	125.000	130.409	484190.39	0.1109	P	2.1
5	☐	250.000	249.297	918153.41	0.2111	P	0.4
6	☐	500.000	494.025	1827396.31	0.4173	P	0.7
7	☐	1000.000	1002.461	3549085.02	0.8458	P	1.2
8	☐			45524.93	0.0119	P	2.6

$$y = 8.4268\text{E-}004 * x + 0.0010$$

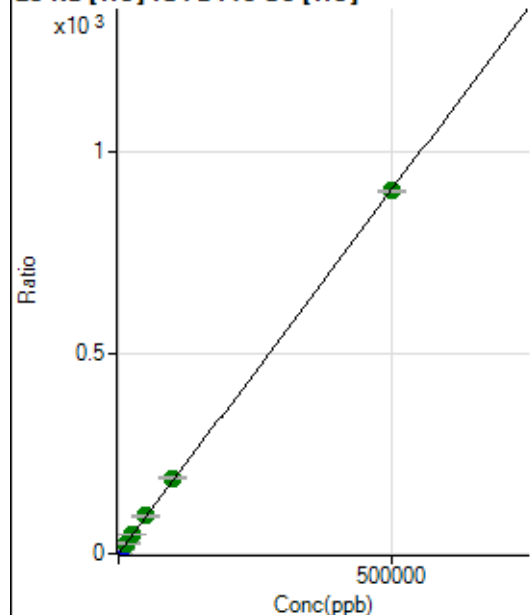
R = 1.0000

DL = 0.1461

BEC = 1.215

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	31250.88	0.0890	P	0.4
2	☐	500.000	505.104	354325.99	1.0042	P	0.6
3	☐	5000.000	5351.311	3576568.44	9.7846	P	2.5
4	☐	12500.000	14301.046	8831249.87	25.9999	A	4.4
5	☐	25000.000	26303.572	16406418.17	47.7462	A	0.7
6	☐	50000.000	51892.387	33274448.01	94.1085	A	1.7
7	☐	100000.00	104052.22	66497736.25	188.6125	A	0.7
8	☐	500000.00	498886.59	301498684.9	903.9799	A	0.7

$$y = 0.0018 * x + 0.0890$$

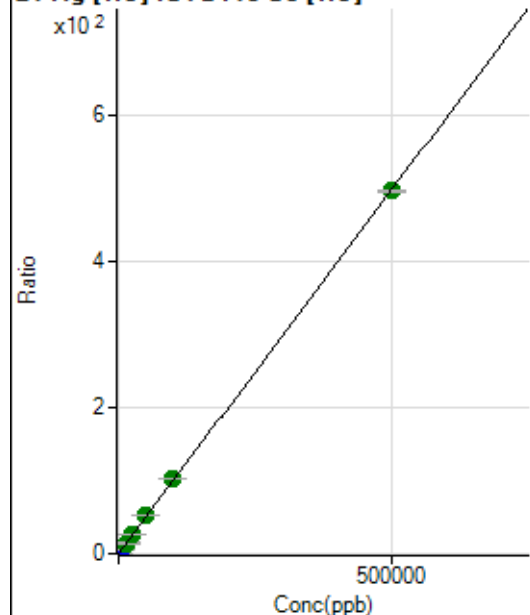
R = 1.0000

DL = 0.6605

BEC = 49.12

Weight: <None>

Min Conc: 0

24 Mg [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4720.50	0.0134	P	1.5
2	☐	500.000	503.825	181584.04	0.5146	P	0.9
3	☐	5000.000	5432.259	1980111.33	5.4169	P	2.4
4	☐	12500.000	14434.673	4880937.69	14.3717	A	4.9
5	☐	25000.000	26559.572	9082851.80	26.4324	A	0.7
6	☐	50000.000	52336.609	18410458.30	52.0729	A	2.3
7	☐	100000.00	103804.06	36407954.53	103.2679	A	0.7
8	☐	500000.00	498874.85	165509871.2	496.2469	A	0.8

$$y = 9.9471\text{E-}004 * x + 0.0134$$

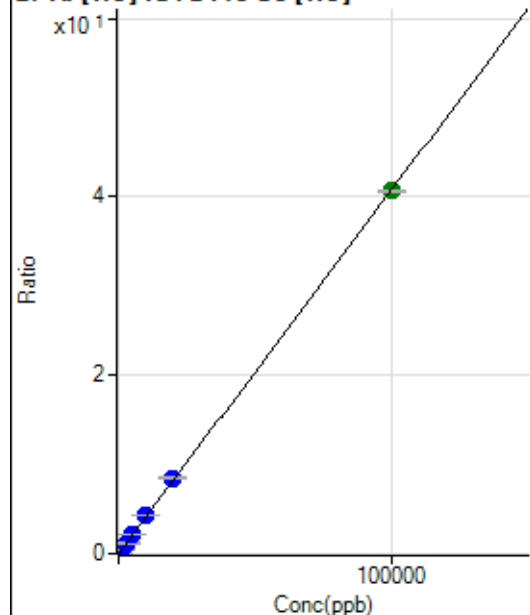
$$R = 1.0000$$

$$DL = 0.5935$$

$$BEC = 13.52$$

Weight: <None>

Min Conc: 0

27 Al [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	353.27	0.0010	P	7.2
2	☐	20.000	18.074	2955.06	0.0084	P	3.3
3	☐	1000.000	1058.932	158156.89	0.4327	P	2.7
4	☐	2500.000	2890.430	400597.38	1.1793	P	4.1
5	☐	5000.000	5332.617	747336.38	2.1749	P	0.5
6	☐	10000.000	10448.383	1506330.93	4.2603	P	1.7
7	☐	20000.000	20843.744	2996057.40	8.4980	P	0.6
8	☐	100000.00	99759.432	13563797.29	40.6683	A	0.8

$$y = 4.0765\text{E-}004 * x + 0.0010$$

$$R = 1.0000$$

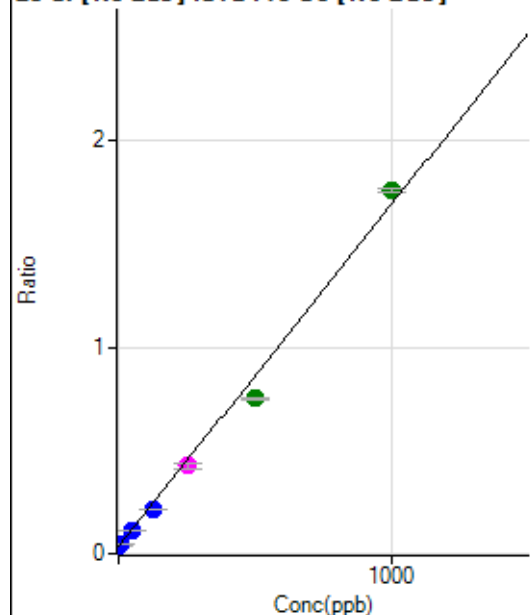
$$DL = 0.5321$$

$$BEC = 2.468$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	361889.44	0.0348	P	1.2
2	☐	10.000	8.384	497516.52	0.0486	P	1.7
3	☐	50.000	49.086	1201306.38	0.1160	P	0.4
4	☐	125.000	110.607	2181188.52	0.2179	P	0.5
5	☐	250.000	236.845	4324277.53	0.4270	M	6.9
6	☐	500.000	431.553	7787327.43	0.7494	A	1.1
7	☐	1000.000	1039.373	18017767.94	1.7559	A	1.0
8	☐			751883.14	0.0819	P	3.8

$$y = 0.0017 * x + 0.0348$$

$$R = 0.9965$$

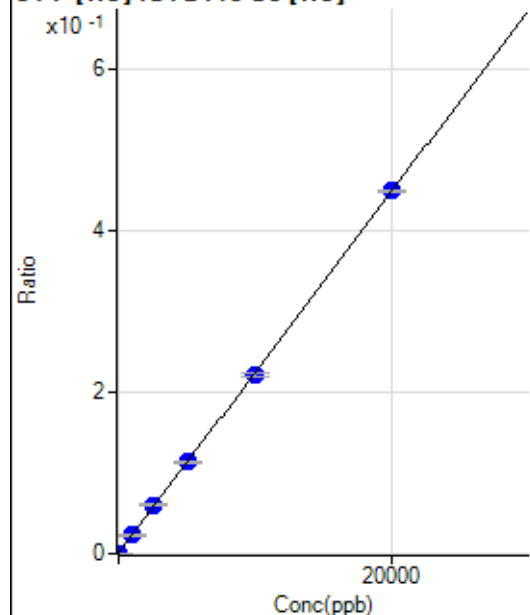
$$DL = 0.7494$$

$$BEC = 20.98$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.597	216.68	0.0006	P	13.2
2	☐	0.000	-0.597	208.35	0.0006	P	16.7
3	☐	1000.000	985.509	8285.99	0.0227	P	4.0
4	☐	2500.000	2653.730	20397.99	0.0600	P	3.0
5	☐	5000.000	5024.995	38871.05	0.1131	P	1.4
6	☐	10000.000	9883.322	78456.43	0.2219	P	2.5
7	☐	20000.000	20033.599	158376.48	0.4492	P	0.4
8	☐			322.24	0.0010	P	3.2

$$y = 2.2393E-005 * x + 6.0337E-004$$

$$R = 0.9999$$

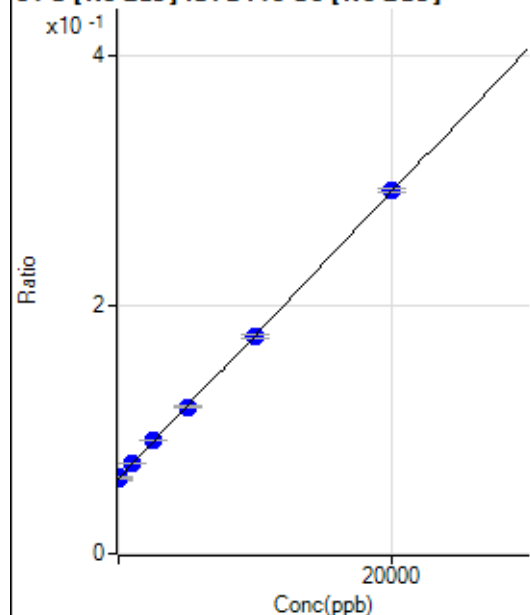
$$DL = 12.06$$

$$BEC = 26.94$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-81.970	621221.77	0.0597	P	1.1
2	☐	0.000	81.970	629541.89	0.0615	P	1.8
3	☐	1000.000	999.755	746550.83	0.0721	P	0.2
4	☐	2500.000	2636.916	910509.74	0.0910	P	0.5
5	☐	5000.000	4994.542	1196370.40	0.1181	P	0.6
6	☐	10000.000	9872.318	1810981.18	0.1743	P	2.0
7	☐	20000.000	20048.103	2990963.26	0.2915	P	0.9
8	☐			574121.99	0.0625	P	0.7

$$y = 1.1517\text{E-}005 * x + 0.0606$$

$$R = 0.9999$$

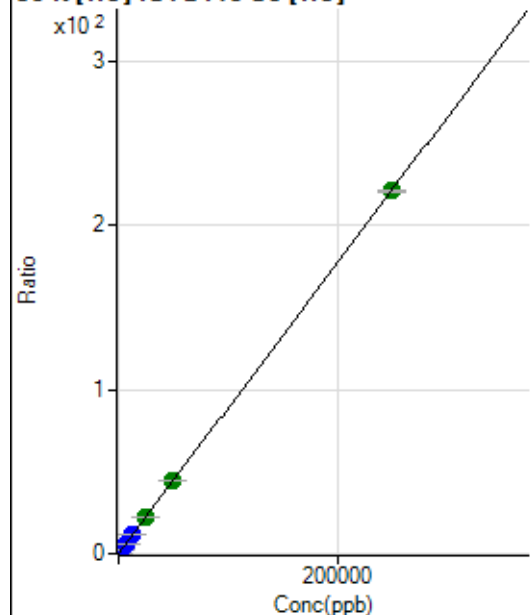
$$DL = 226.6$$

$$BEC = 5262$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	25148.29	0.0716	P	1.4
2	☐	500.000	475.704	173652.83	0.4921	P	0.7
3	☐	2500.000	2504.583	835471.12	2.2857	P	2.7
4	☐	6250.000	6798.482	2066198.42	6.0815	P	3.4
5	☐	12500.000	12700.890	3882656.01	11.2992	P	0.4
6	☐	25000.000	25153.953	7887010.50	22.3077	A	2.3
7	☐	50000.000	50252.637	15687802.09	44.4950	A	0.5
8	☐	250000.00	249910.32	73707140.79	220.9926	A	0.3

$$y = 8.8400\text{E-}004 * x + 0.0716$$

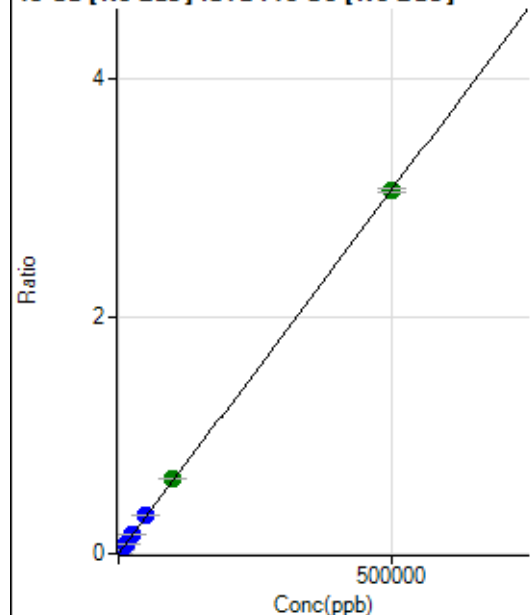
$$R = 1.0000$$

$$DL = 3.514$$

$$BEC = 81.02$$

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	1067.84	0.0001	P	1.9
2	☐	500.000	491.194	31837.81	0.0031	P	1.3
3	☐	5000.000	5330.478	339187.64	0.0328	P	0.1
4	☐	12500.000	13907.682	853965.31	0.0853	P	0.5
5	☐	25000.000	26581.431	1650644.17	0.1630	P	0.7
6	☐	50000.000	52054.904	3315108.24	0.3190	P	1.6
7	☐	100000.00	103345.53	6498377.49	0.6333	A	0.6
8	☐	500000.00	499007.84	28069376.52	3.0576	A	0.9

$$y = 6.1271\text{E-}006 * x + 1.0255\text{E-}004$$

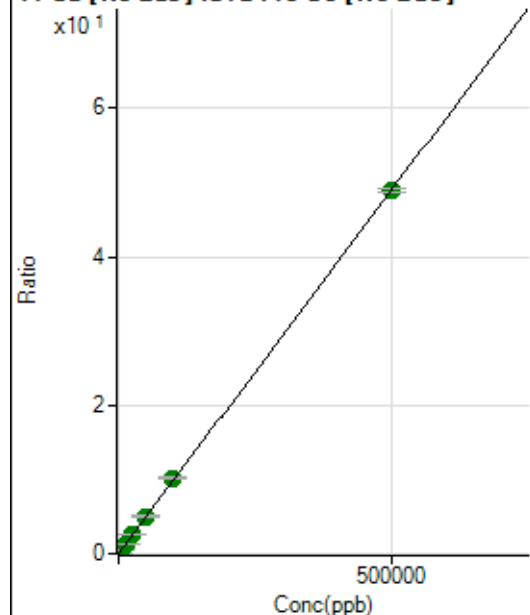
$$R = 1.0000$$

$$DL = 0.9656$$

$$BEC = 16.74$$

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	33383.52	0.0032	P	0.8
2	☐	500.000	495.722	529635.66	0.0518	P	0.6
3	☐	5000.000	5221.079	5328545.95	0.5147	A	0.5
4	☐	12500.000	13595.111	13362899.31	1.3351	A	2.2
5	☐	25000.000	26003.353	25834702.53	2.5507	A	1.1
6	☐	50000.000	51304.734	52260068.59	5.0294	A	1.4
7	☐	100000.00	103991.31	104568854.7	10.1909	A	1.0
8	☐	500000.00	498991.51	448796412.4	48.8880	A	1.1

$$y = 9.7967\text{E-}005 * x + 0.0032$$

$$R = 1.0000$$

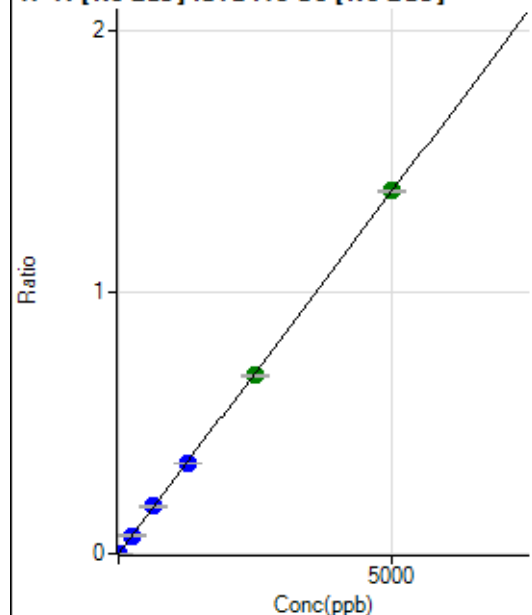
$$DL = 0.7595$$

$$BEC = 32.72$$

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	238.90	0.0000	P	11.1
2	☐	5.000	4.800	13832.03	0.0014	P	1.1
3	☐	250.000	251.834	722152.81	0.0698	P	0.5
4	☐	625.000	652.376	1808286.65	0.1807	P	0.8
5	☐	1250.000	1246.658	3496549.69	0.3452	P	1.5
6	☐	2500.000	2466.512	7097132.89	0.6830	A	1.1
7	☐	5000.000	5014.066	14246197.54	1.3884	A	0.8
8	☐			2455.88	0.0003	P	8.9

$$y = 2.7689\text{E-}004 * x + 2.2918\text{E-}005$$

$$R = 0.9999$$

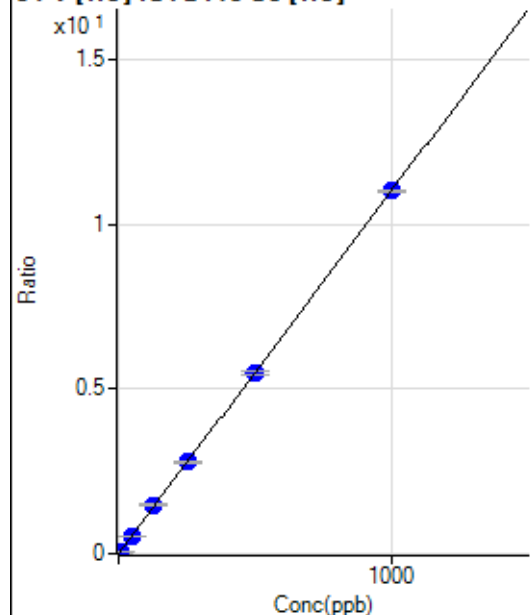
$$DL = 0.02757$$

$$BEC = 0.08277$$

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	2.22	0.0000	P	173.
2	☐	5.000	4.692	18224.82	0.0516	P	1.6
3	☐	50.000	49.080	197424.73	0.5402	P	3.1
4	☐	125.000	134.322	502191.71	1.4783	P	3.8
5	☐	250.000	252.267	953974.05	2.7763	P	0.6
6	☐	500.000	497.332	1935219.66	5.4733	P	1.8
7	☐	1000.000	999.649	3878624.98	11.0015	P	0.7
8	☐			658.91	0.0020	P	7.3

$$y = 0.0110 * x + 6.3184\text{E-}006$$

$$R = 0.9999$$

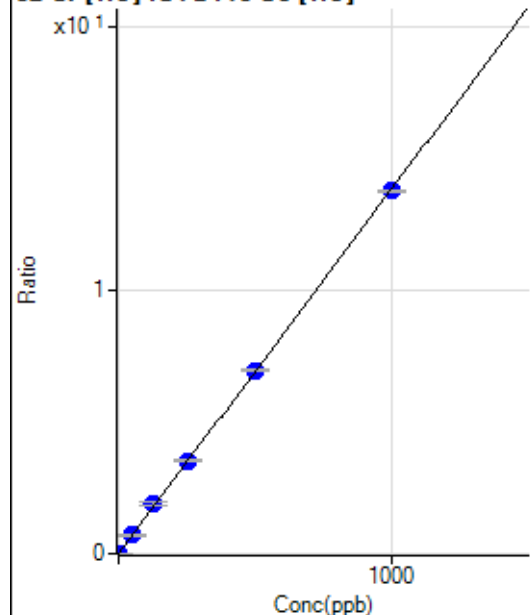
$$DL = 0.002983$$

$$BEC = 0.0005741$$

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	658.92	0.0019	P	3.5
2	☐	2.000	1.946	10156.96	0.0288	P	3.7
3	☐	50.000	50.666	256768.33	0.7025	P	2.7
4	☐	125.000	137.331	645657.31	1.9008	P	4.3
5	☐	250.000	255.693	1215537.36	3.5375	P	0.2
6	☐	500.000	502.919	2459518.75	6.9559	P	1.4
7	☐	1000.000	995.543	4853850.45	13.7676	P	0.8
8	☐			8458.10	0.0254	P	3.7

$$y = 0.0138 * x + 0.0019$$

$$R = 0.9999$$

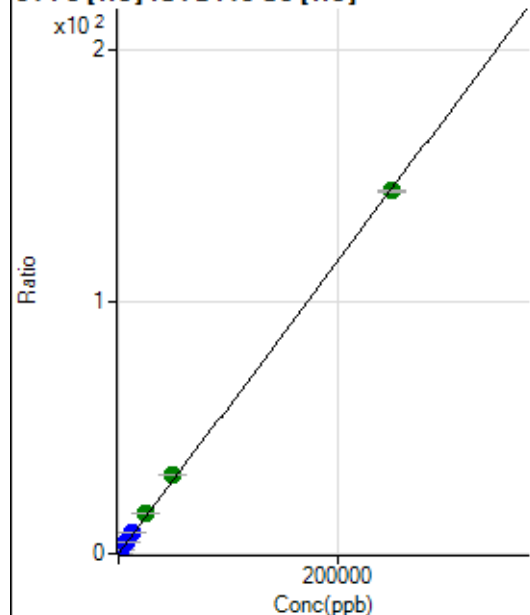
$$DL = 0.01419$$

$$BEC = 0.1357$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2165.08	0.0062	P	2.5
2	☐	50.000	49.776	12363.46	0.0350	P	3.0
3	☐	2500.000	2790.707	593911.61	1.6249	P	2.9
4	☐	6250.000	7625.430	1504391.32	4.4291	P	4.5
5	☐	12500.000	14113.883	2815147.96	8.1926	P	0.6
6	☐	25000.000	27345.543	5610561.95	15.8673	A	1.5
7	☐	50000.000	54453.329	11137250.51	31.5906	A	0.9
8	☐	250000.00	248756.79	48125204.03	144.2919	A	0.5

$$y = 5.8003E-004 * x + 0.0062$$

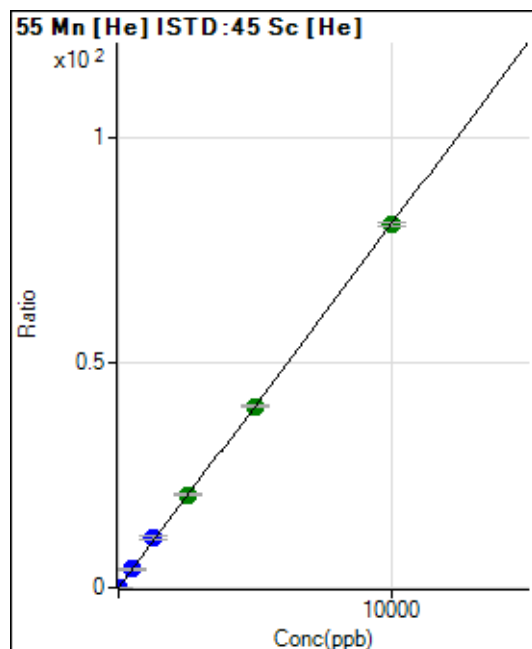
$$R = 0.9998$$

$$DL = 0.7854$$

$$BEC = 10.63$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	424.46	0.0012	P	18.6
2	☐	1.000	0.962	3164.83	0.0090	P	2.8
3	☐	500.000	504.630	1488650.29	4.0727	P	2.7
4	☐	1250.000	1369.882	3754121.58	11.0537	P	4.9
5	☐	2500.000	2560.574	7099246.35	20.6604	A	0.7
6	☐	5000.000	4990.497	14238030.76	40.2655	A	1.1
7	☐	10000.000	9974.391	28373057.35	80.4764	A	0.9
8	☐			16292.56	0.0489	P	2.3

$$y = 0.0081 * x + 0.0012$$

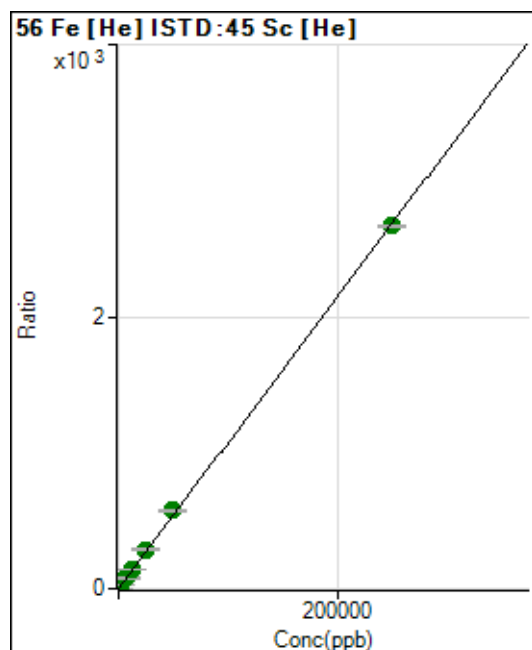
$$R = 0.9999$$

$$DL = 0.08385$$

$$BEC = 0.1499$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	32569.51	0.0928	P	0.7
2	☐	50.000	47.771	213407.67	0.6048	P	1.2
3	☐	2500.000	2688.714	10567953.81	28.9114	A	2.8
4	☐	6250.000	7339.921	26750598.33	78.7648	A	4.9
5	☐	12500.000	13615.151	50176570.02	146.0250	A	0.7
6	☐	25000.000	27025.260	102451615.6	289.7596	A	1.7
7	☐	50000.000	53583.751	202503031.3	574.4234	A	1.5
8	☐	250000.00	248995.83	890147562.2	2.668.922	A	0.8

$$y = 0.0107 * x + 0.0928$$

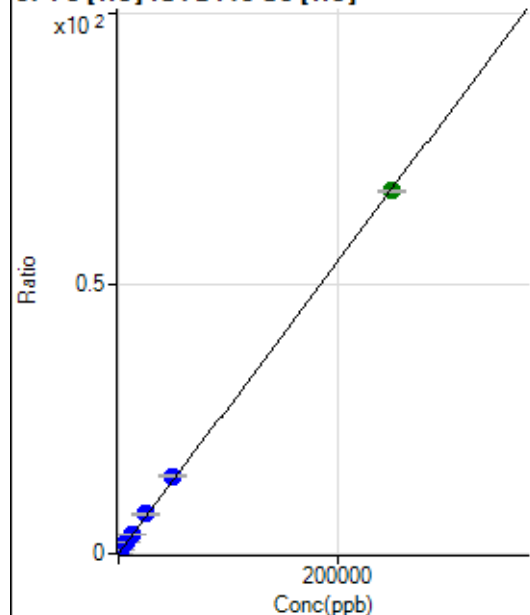
$$R = 0.9999$$

$$DL = 0.1769$$

$$BEC = 8.655$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	877.19	0.0025	P	6.9
2	☐	50.000	48.513	5501.31	0.0156	P	5.4
3	☐	2500.000	2743.015	271465.57	0.7426	P	2.5
4	☐	6250.000	7515.933	689628.77	2.0305	P	4.8
5	☐	12500.000	13806.968	1281028.07	3.7280	P	0.3
6	☐	25000.000	27076.952	2584174.52	7.3086	P	1.6
7	☐	50000.000	53370.619	5077845.47	14.4034	P	1.1
8	☐	250000.00	249018.75	22411135.20	67.1949	A	0.6

$$y = 2.6983\text{E-}004 * x + 0.0025$$

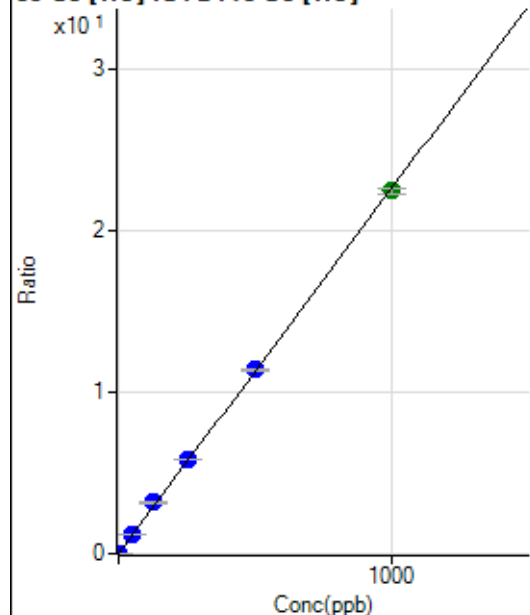
R = 0.9999

DL = 1.904

BEC = 9.259

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	187.78	0.0005	P	6.8
2	☐	1.000	0.995	8139.05	0.0231	P	3.2
3	☐	50.000	51.572	426982.86	1.1681	P	2.4
4	☐	125.000	140.828	1083018.01	3.1887	P	4.7
5	☐	250.000	259.572	2019417.49	5.8769	P	0.4
6	☐	500.000	503.955	4034153.65	11.4095	P	1.6
7	☐	1000.000	993.572	7930302.31	22.4939	A	1.3
8	☐			11006.50	0.0330	P	1.9

$$y = 0.0226 * x + 5.3486\text{E-}004$$

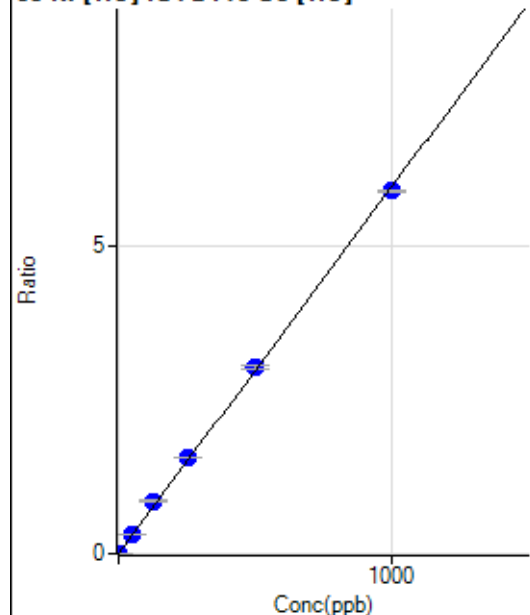
R = 0.9998

DL = 0.004851

BEC = 0.02363

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	187.78	0.0005	P	21.9
2	☐	1.000	1.030	2355.79	0.0067	P	2.8
3	☐	50.000	52.324	114281.93	0.3126	P	1.9
4	☐	125.000	143.256	290343.64	0.8550	P	5.2
5	☐	250.000	262.261	537674.24	1.5648	P	0.4
6	☐	500.000	509.615	1074845.53	3.0401	P	2.0
7	☐	1000.000	989.729	2081336.74	5.9036	P	0.9
8	☐			3157.05	0.0095	P	2.2

$$y = 0.0060 * x + 5.3484E-004$$

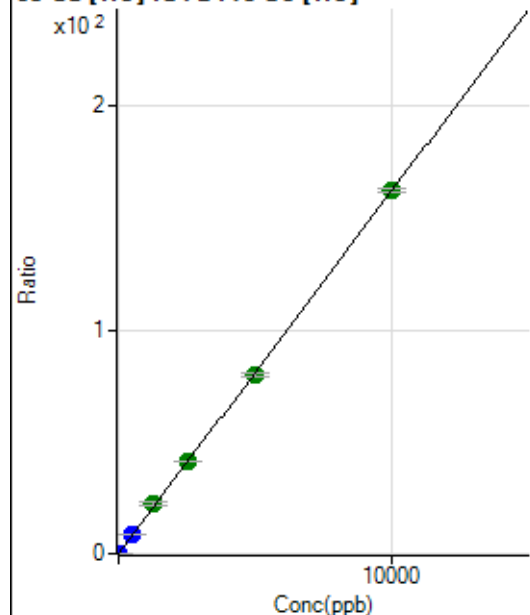
$$R = 0.9997$$

$$DL = 0.0588$$

$$BEC = 0.08967$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	492.24	0.0014	P	3.9
2	☐	2.000	2.203	13082.66	0.0371	P	3.4
3	☐	500.000	515.362	3050869.47	8.3465	P	2.7
4	☐	1250.000	1380.569	7592917.94	22.3565	A	4.8
5	☐	2500.000	2539.665	14131445.48	41.1254	A	0.4
6	☐	5000.000	4933.720	28246704.86	79.8916	A	2.0
7	☐	10000.000	10006.135	57121405.82	162.0276	A	1.2
8	☐			7439.79	0.0223	P	0.7

$$y = 0.0162 * x + 0.0014$$

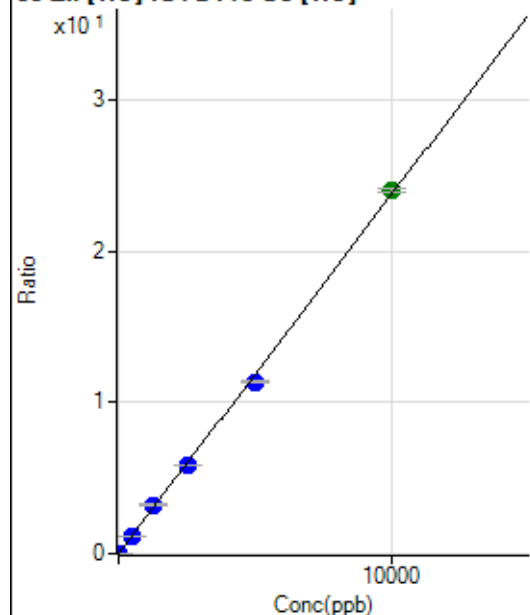
$$R = 0.9999$$

$$DL = 0.01$$

$$BEC = 0.08659$$

Weight: <None>

Min Conc: 0

66 Zn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	627.41	0.0018	P	4.9
2	☐	2.000	2.591	2804.11	0.0079	P	1.7
3	☐	500.000	488.606	425234.97	1.1633	P	2.3
4	☐	1250.000	1339.787	1082465.46	3.1867	P	4.2
5	☐	2500.000	2476.726	2023741.23	5.8894	P	0.3
6	☐	5000.000	4784.956	4022352.55	11.3765	P	1.8
7	☐	10000.000	10102.687	8467376.07	24.0177	A	1.1
8	☐			12695.50	0.0381	P	0.6

$$y = 0.0024 * x + 0.0018$$

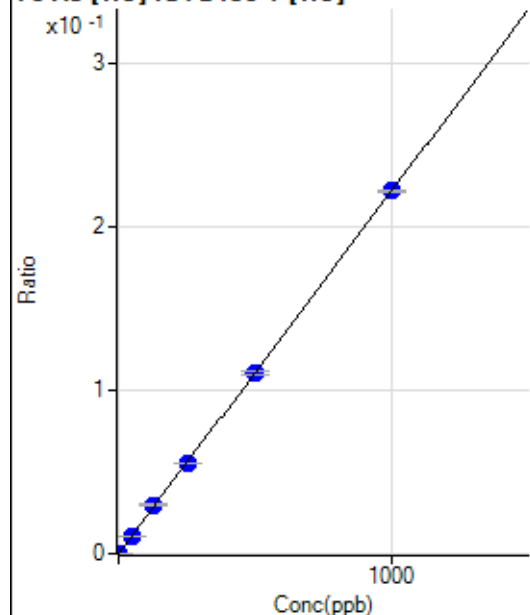
$$R = 0.9996$$

$$DL = 0.1108$$

$$BEC = 0.7515$$

Weight: <None>

Min Conc: 0

75 As [He] ISTD:89 Y [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	24.69	0.0000	P	40.8
2	☐	1.000	0.961	483.35	0.0002	P	6.2
3	☐	50.000	49.229	24321.62	0.0109	P	2.5
4	☐	125.000	132.516	61762.46	0.0294	P	4.0
5	☐	250.000	248.729	117275.29	0.0552	P	0.6
6	☐	500.000	498.086	238396.09	0.1104	P	2.0
7	☐	1000.000	1000.374	477252.48	0.2218	P	0.4
8	☐			174.08	0.0001	P	8.8

$$y = 2.2171E-004 * x + 1.1547E-005$$

$$R = 1.0000$$

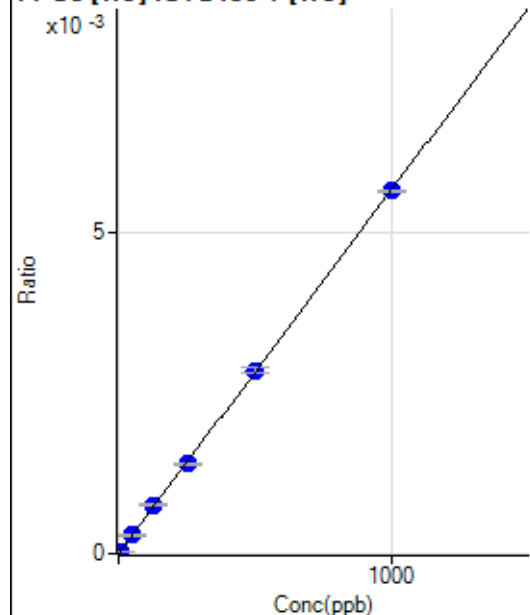
$$DL = 0.0637$$

$$BEC = 0.05208$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	3.381	41.11	0.0000	P	20.6
3	☐	50.000	51.080	643.36	0.0003	P	7.3
4	☐	125.000	133.849	1590.11	0.0008	P	1.9
5	☐	250.000	247.336	2971.47	0.0014	P	1.7
6	☐	500.000	504.685	6156.96	0.0029	P	2.4
7	☐	1000.000	997.172	12124.17	0.0056	P	0.2
8	☐			2.22	0.0000	P	173.

$$y = 5.6507\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

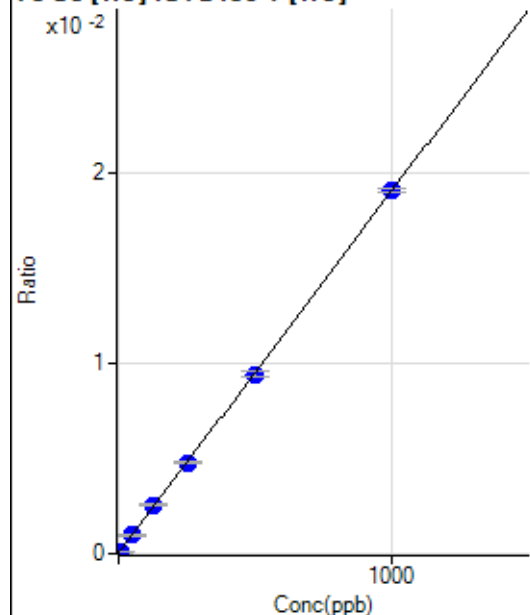
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	37.65	0.0000	P	30.9
2	☐	5.000	5.038	243.83	0.0001	P	14.5
3	☐	50.000	49.994	2153.88	0.0010	P	2.0
4	☐	125.000	133.380	5364.62	0.0026	P	3.0
5	☐	250.000	250.966	10175.85	0.0048	P	1.3
6	☐	500.000	495.225	20347.69	0.0094	P	2.9
7	☐	1000.000	1001.099	40965.74	0.0190	P	1.0
8	☐			50.62	0.0000	P	24.9

$$y = 1.9001\text{E-}005 * x + 1.7591\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.8583$$

$$BEC = 0.9258$$

Weight: <None>

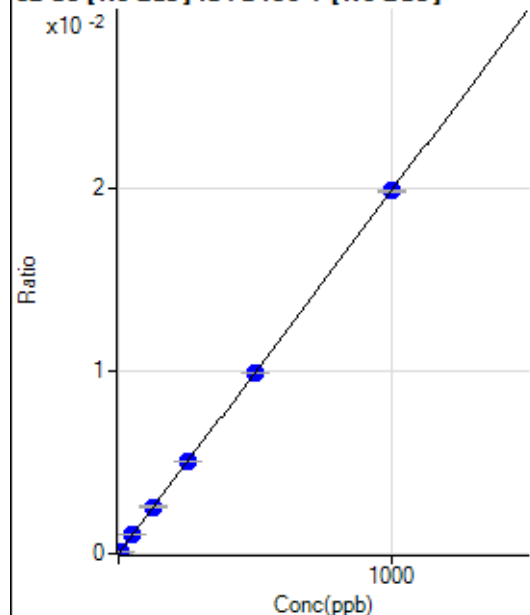
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			42660.64		P	3.3
2	☐			42466.15		P	2.2
3	☐			43031.96		P	1.7
4	☐			42854.14		P	2.1
5	☐			43249.49		P	2.4
6	☐			44035.96		P	1.4
7	☐			43349.51		P	0.1
8	☐			39320.60		P	1.9

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			90.10		P	11.1
2	☐			40.04		P	NaN
3	☐			53.39		P	21.7
4	☐			23.36		P	107.
5	☐			63.40		P	63.8
6	☐			30.03		P	33.3
7	☐			30.03		P	100.
8	☐			23.36		P	65.5

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.85	0.0000	P	578.
2	☐	5.000	5.012	1887.51	0.0001	P	2.5
3	☐	50.000	50.579	19266.92	0.0010	P	0.4
4	☐	125.000	129.662	47901.09	0.0026	P	0.8
5	☐	250.000	253.712	94689.90	0.0051	P	1.3
6	☐	500.000	497.165	191020.23	0.0099	P	0.6
7	☐	1000.000	999.877	384248.51	0.0199	P	0.7
8	☐			188.24	0.0000	P	2.2

$$y = 1.9909\text{E-}005 * x + 2.5537\text{E-}007$$

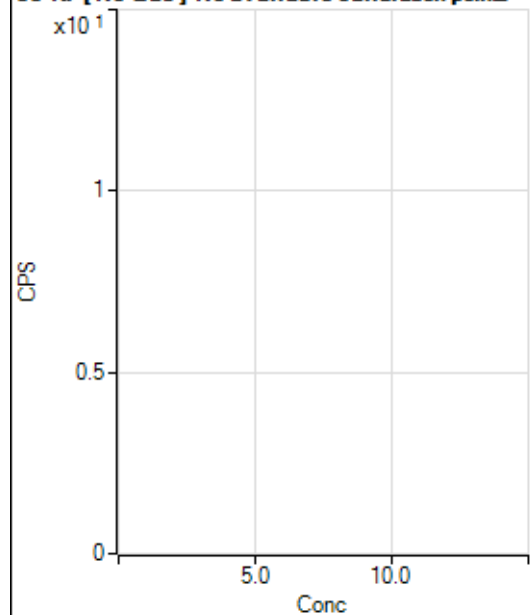
$$R = 1.0000$$

$$DL = 0.2227$$

$$BEC = 0.01283$$

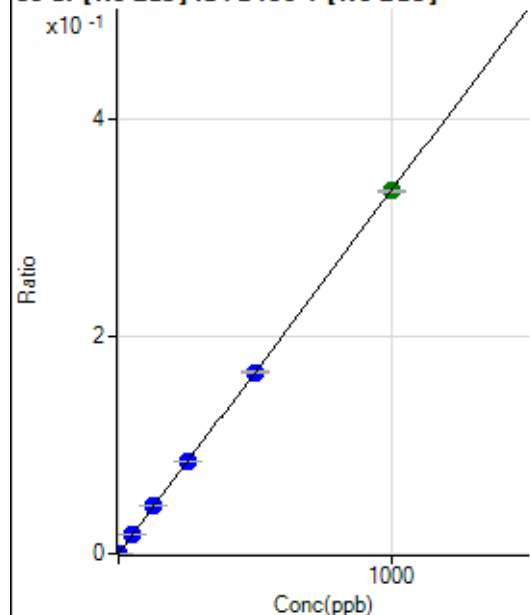
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			428.90		P	7.2
2	☐			415.57		P	3.3
3	☐			455.57		P	1.7
4	☐			461.13		P	7.6
5	☐			500.02		P	7.7
6	☐			507.80		P	4.5
7	☐			560.02		P	11.0
8	☐			453.35		P	3.2

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	766.72	0.0000	P	5.7
2	☐	1.000	0.971	6874.19	0.0004	P	3.9
3	☐	50.000	51.205	328677.12	0.0172	P	1.1
4	☐	125.000	133.147	827821.58	0.0446	P	0.9
5	☐	250.000	255.054	1601551.56	0.0854	P	0.7
6	☐	500.000	497.893	3217642.22	0.1667	P	0.9
7	☐	1000.000	998.711	6454874.36	0.3344	A	0.6
8	☐			31727.82	0.0019	P	1.2

$$y = 3.3480\text{E-}004 * x + 3.9239\text{E-}005$$

$$R = 1.0000$$

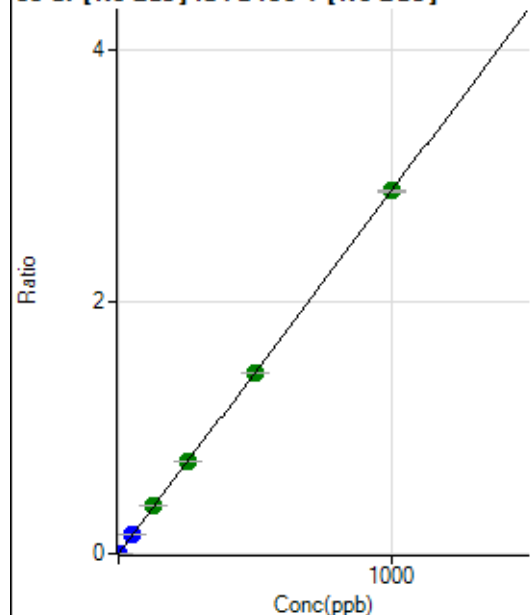
$$DL = 0.01989$$

$$BEC = 0.1172$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	572.26	0.0000	P	13.8
2	☐	1.000	0.986	54117.21	0.0029	P	2.3
3	☐	50.000	51.284	2825394.57	0.1477	P	0.3
4	☐	125.000	131.611	7032020.38	0.3790	A	1.4
5	☐	250.000	252.986	13657488.67	0.7285	A	0.7
6	☐	500.000	496.905	27614458.95	1.4309	A	0.4
7	☐	1000.000	999.910	55579281.80	2.8794	A	0.3
8	☐			264768.18	0.0159	P	0.8

$$y = 0.0029 * x + 2.9274\text{E-}005$$

$$R = 1.0000$$

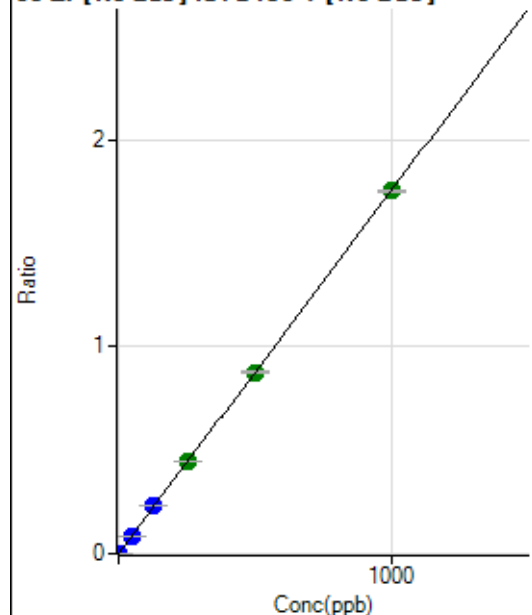
$$DL = 0.004199$$

$$BEC = 0.01017$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1169.55	0.0001	P	6.8
2	☐	1.000	0.831	28679.62	0.0015	P	2.0
3	☐	50.000	49.856	1677059.95	0.0877	P	0.6
4	☐	125.000	132.123	4309017.89	0.2322	P	1.3
5	☐	250.000	253.307	8345740.46	0.4452	A	0.1
6	☐	500.000	499.457	16939402.98	0.8778	A	0.6
7	☐	1000.000	998.562	33872947.98	1.7549	A	0.7
8	☐			9167.17	0.0006	P	4.3

$$y = 0.0018 * x + 5.9808E-005$$

$$R = 1.0000$$

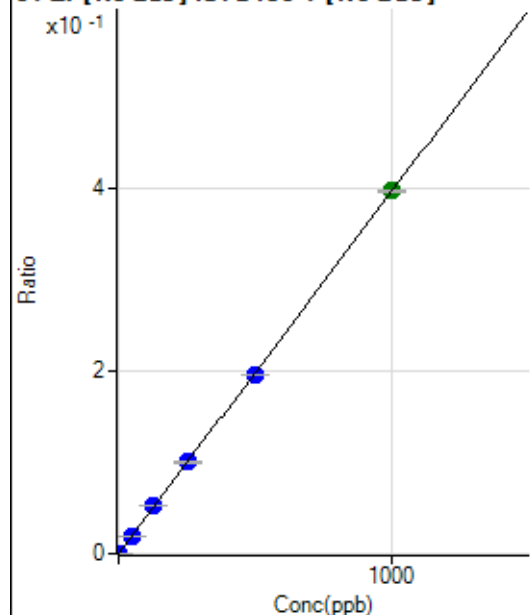
$$DL = 0.006989$$

$$BEC = 0.03403$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	250.01	0.0000	P	24.7
2	☐	1.000	0.845	6557.34	0.0003	P	1.3
3	☐	50.000	49.245	373338.50	0.0195	P	1.1
4	☐	125.000	131.283	964999.86	0.0520	P	0.9
5	☐	250.000	252.674	1876188.06	0.1001	P	0.6
6	☐	500.000	493.031	3768709.02	0.1953	P	0.4
7	☐	1000.000	1002.069	7661079.86	0.3969	A	0.7
8	☐			2028.01	0.0001	P	2.0

$$y = 3.9607E-004 * x + 1.2809E-005$$

$$R = 0.9999$$

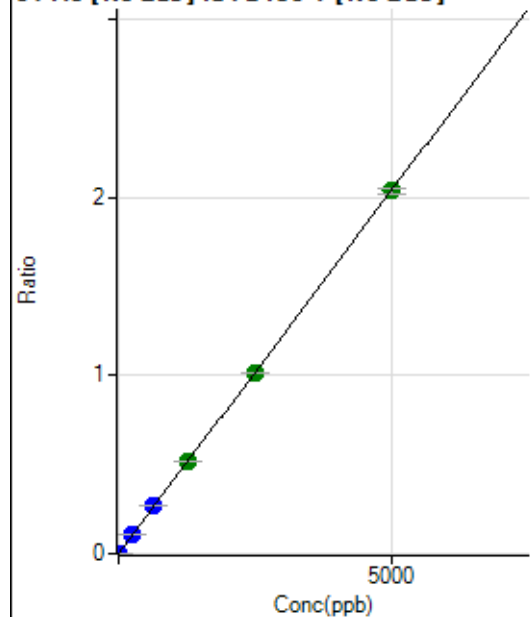
$$DL = 0.024$$

$$BEC = 0.03234$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	480.59	0.0000	P	20.9
2	☐	5.000	4.649	36266.38	0.0019	P	0.3
3	☐	250.000	252.943	1975460.03	0.1033	P	0.5
4	☐	625.000	662.653	5019062.00	0.2705	P	0.9
5	☐	1250.000	1274.805	9755238.50	0.5204	A	0.2
6	☐	2500.000	2489.210	19608849.05	1.0161	A	0.8
7	☐	5000.000	4994.340	39350209.91	2.0387	A	1.3
8	☐			8652.96	0.0005	P	3.6

$$y = 4.0819E-004 * x + 2.4616E-005$$

$$R = 1.0000$$

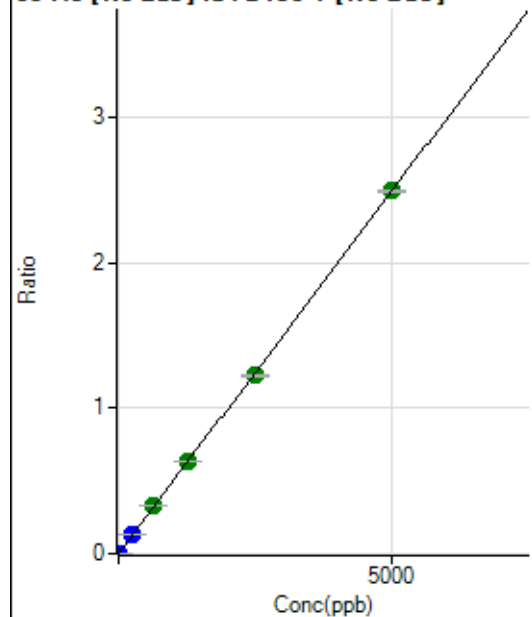
$$DL = 0.03782$$

$$BEC = 0.0603$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	41.67	0.0000	P	20.8
2	☐	5.000	4.974	46749.66	0.0025	P	3.0
3	☐	250.000	253.605	2414750.55	0.1262	P	0.4
4	☐	625.000	656.733	6065506.12	0.3269	A	1.4
5	☐	1250.000	1270.619	11856743.49	0.6325	A	0.4
6	☐	2500.000	2464.673	23675583.17	1.2268	A	0.9
7	☐	5000.000	5008.362	48120715.66	2.4930	A	0.7
8	☐			8236.01	0.0005	P	7.9

$$y = 4.9777E-004 * x + 2.1343E-006$$

$$R = 0.9999$$

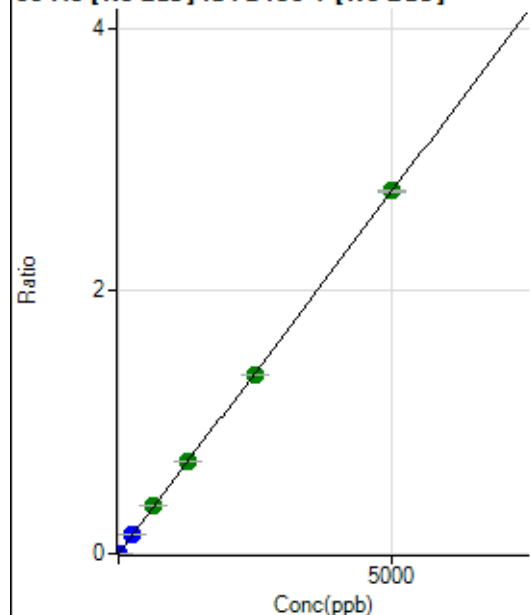
$$DL = 0.002679$$

$$BEC = 0.004288$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	325.02	0.0000	P	23.2
2	☐	5.000	4.881	51084.33	0.0027	P	1.2
3	☐	250.000	253.081	2668942.55	0.1395	P	0.4
4	☐	625.000	656.542	6715452.97	0.3619	A	0.7
5	☐	1250.000	1269.871	13122758.63	0.7000	A	0.3
6	☐	2500.000	2460.324	26173779.58	1.3563	A	0.2
7	☐	5000.000	5010.774	53316989.39	2.7622	A	0.5
8	☐			25095.22	0.0015	P	2.5

$$y = 5.5125\text{E-}004 * x + 1.6652\text{E-}005$$

$$R = 0.9999$$

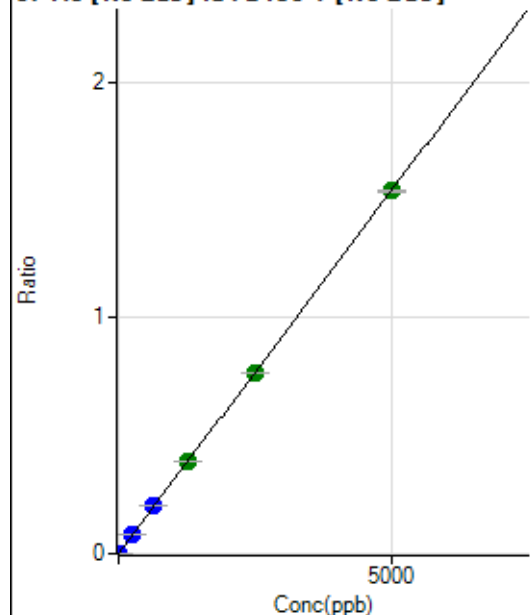
$$DL = 0.02098$$

$$BEC = 0.03021$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	41.67	0.0000	P	59.2
2	☐	5.000	4.871	28340.17	0.0015	P	2.1
3	☐	250.000	254.843	1501149.06	0.0785	P	0.3
4	☐	625.000	660.326	3772727.25	0.2033	P	0.9
5	☐	1250.000	1270.673	7335017.00	0.3913	A	0.1
6	☐	2500.000	2488.055	14785697.73	0.7662	A	0.1
7	☐	5000.000	4996.147	29696168.72	1.5385	A	0.9
8	☐			4867.71	0.0003	P	6.9

$$y = 3.0793\text{E-}004 * x + 2.1257\text{E-}006$$

$$R = 1.0000$$

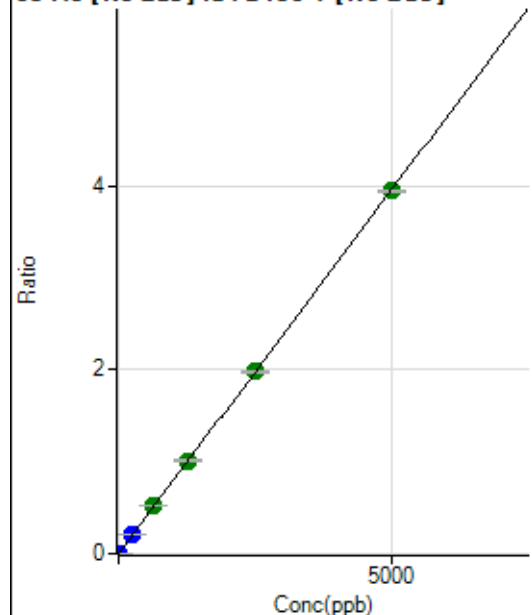
$$DL = 0.01227$$

$$BEC = 0.006903$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	97.23	0.0000	P	4.7
2	☐	5.000	4.974	74333.13	0.0039	P	1.7
3	☐	250.000	254.407	3850323.18	0.2013	P	0.7
4	☐	625.000	660.492	9695802.39	0.5226	A	1.0
5	☐	1250.000	1280.544	18991542.96	1.0132	A	0.9
6	☐	2500.000	2500.944	38185692.87	1.9787	A	1.3
7	☐	5000.000	4987.235	76164201.70	3.9458	A	0.5
8	☐			11999.94	0.0007	P	2.9

$$y = 7.9119\text{E-}004 * x + 4.9738\text{E-}006$$

$$R = 1.0000$$

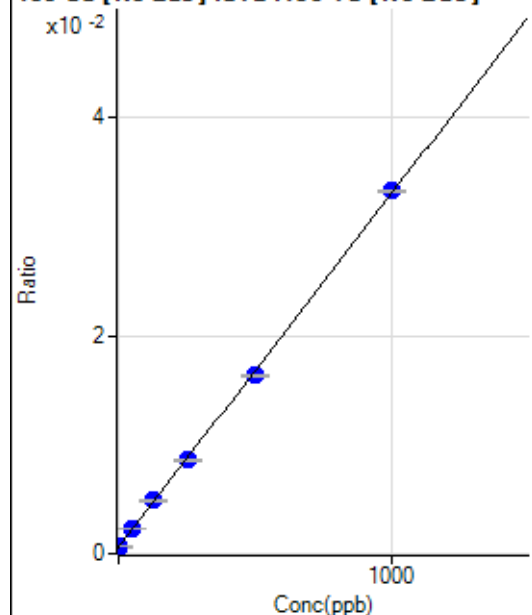
$$DL = 0.000889$$

$$BEC = 0.006287$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11719.25	0.0006	P	3.8
2	☐	1.000	1.467	12227.96	0.0006	P	3.7
3	☐	50.000	51.413	43701.54	0.0023	P	1.0
4	☐	125.000	131.940	91749.69	0.0049	P	1.5
5	☐	250.000	245.577	164906.23	0.0086	P	0.3
6	☐	500.000	485.137	319115.26	0.0163	P	1.5
7	☐	1000.000	1007.599	636527.49	0.0333	P	0.7
8	☐			10623.85	0.0006	P	3.5

$$y = 3.2467\text{E-}005 * x + 5.9182\text{E-}004$$

$$R = 0.9998$$

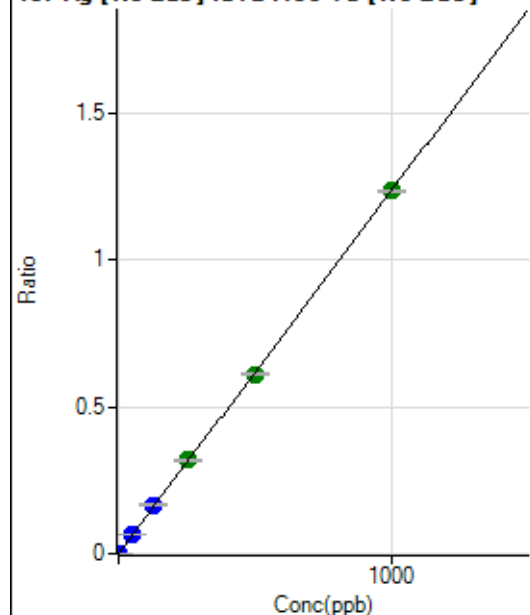
$$DL = 2.076$$

$$BEC = 18.23$$

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	177.79	0.0000	P	23.8
2	☐	1.000	1.004	23915.38	0.0013	P	2.8
3	☐	50.000	52.898	1264763.25	0.0654	P	0.3
4	☐	125.000	134.929	3140741.45	0.1669	P	1.1
5	☐	250.000	256.911	6118117.72	0.3178	A	0.4
6	☐	500.000	495.072	11956840.89	0.6123	A	1.4
7	☐	1000.000	999.350	23623237.33	1.2360	A	0.4
8	☐			4992.76	0.0003	P	6.1

$$y = 0.0012 * x + 8.9872E-006$$

$$R = 0.9999$$

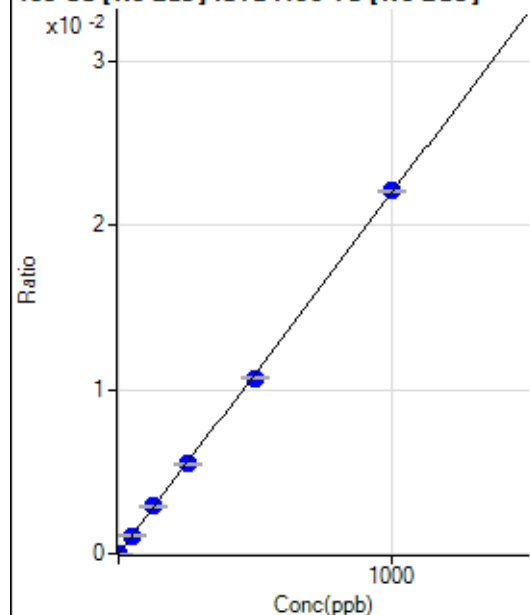
$$DL = 0.005197$$

$$BEC = 0.007266$$

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	25.00	0.0000	P	42.3
2	☐	1.000	0.971	431.96	0.0000	P	16.6
3	☐	50.000	50.580	21522.21	0.0011	P	1.2
4	☐	125.000	131.234	54330.47	0.0029	P	1.0
5	☐	250.000	248.040	105042.90	0.0055	P	0.5
6	☐	500.000	487.189	209217.49	0.0107	P	1.4
7	☐	1000.000	1006.087	422852.90	0.0221	P	0.5
8	☐			234.73	0.0000	P	10.5

$$y = 2.1990E-005 * x + 1.2567E-006$$

$$R = 0.9998$$

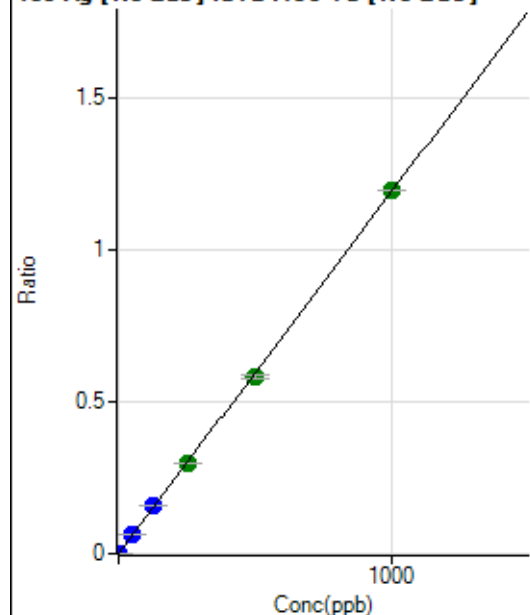
$$DL = 0.07249$$

$$BEC = 0.05715$$

Weight: <None>

Min Conc: 0

109 Ag [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	45.6
2	☐	1.000	1.023	23370.15	0.0012	P	3.7
3	☐	50.000	52.384	1207365.02	0.0625	P	1.0
4	☐	125.000	134.244	3012358.88	0.1601	P	1.2
5	☐	250.000	251.100	5764981.64	0.2994	A	0.9
6	☐	500.000	491.021	11432377.95	0.5855	A	2.0
7	☐	1000.000	1002.940	22856408.67	1.1959	A	0.0
8	☐			4412.00	0.0003	P	4.3

$$y = 0.0012 * x + 2.2337E-006$$

$$R = 0.9999$$

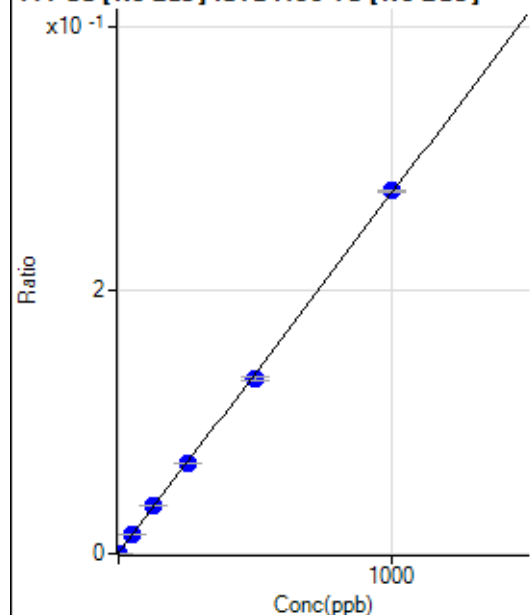
$$DL = 0.00256$$

$$BEC = 0.001873$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	8212.37	0.0004	P	3.7
2	☐	1.000	0.961	12951.13	0.0007	P	2.0
3	☐	50.000	51.166	278082.39	0.0144	P	0.2
4	☐	125.000	131.349	682786.83	0.0363	P	1.4
5	☐	250.000	248.832	1316294.14	0.0684	P	0.4
6	☐	500.000	485.261	2595604.63	0.1329	P	1.6
7	☐	1000.000	1006.810	5262551.37	0.2754	P	0.4
8	☐			8836.39	0.0005	P	3.1

$$y = 2.7308E-004 * x + 4.1472E-004$$

$$R = 0.9998$$

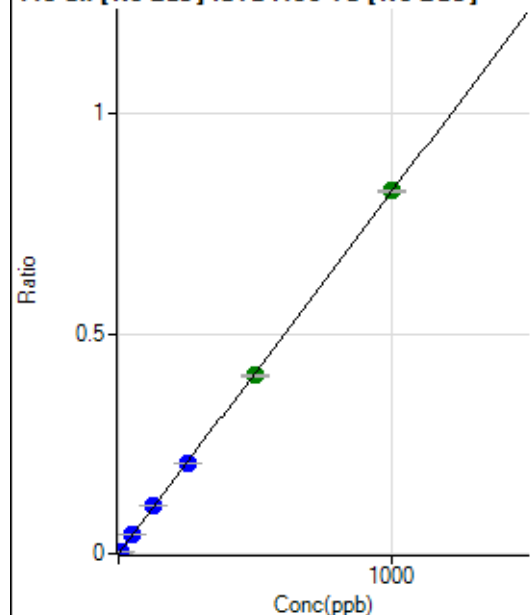
$$DL = 0.1687$$

$$BEC = 1.519$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2412.40	0.0001	P	15.1
2	☐	5.000	4.782	77575.78	0.0041	P	0.9
3	☐	50.000	51.016	813611.10	0.0421	P	0.5
4	☐	125.000	131.655	2040654.74	0.1084	P	0.9
5	☐	250.000	249.554	3955532.42	0.2054	P	0.6
6	☐	500.000	491.984	7906330.91	0.4049	A	1.2
7	☐	1000.000	1003.238	15777189.76	0.8255	A	0.4
8	☐			4264.73	0.0003	P	3.1

$$y = 8.2273E-004 * x + 1.2190E-004$$

$$R = 0.9999$$

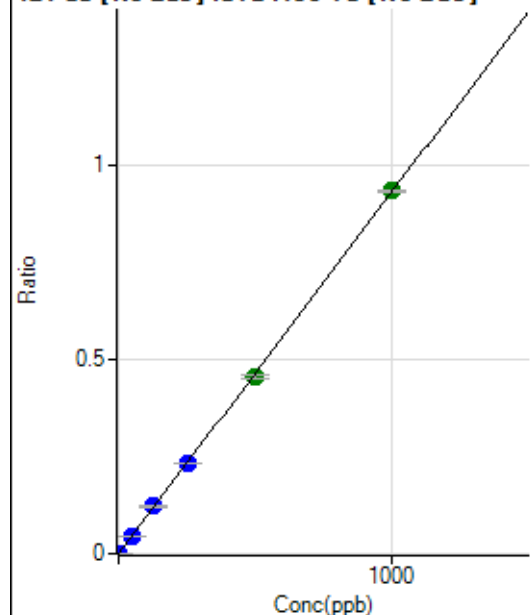
$$DL = 0.06725$$

$$BEC = 0.1482$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.56	0.0000	P	42.3
2	☐	2.000	1.846	32917.21	0.0017	P	1.0
3	☐	50.000	49.987	898844.49	0.0465	P	0.4
4	☐	125.000	130.636	2286908.40	0.1215	P	1.1
5	☐	250.000	248.342	4448020.20	0.2310	P	0.3
6	☐	500.000	491.090	8919947.68	0.4568	A	1.9
7	☐	1000.000	1004.166	17852739.64	0.9341	A	0.3
8	☐			9598.15	0.0006	P	6.0

$$y = 9.3023E-004 * x + 4.0699E-006$$

$$R = 0.9999$$

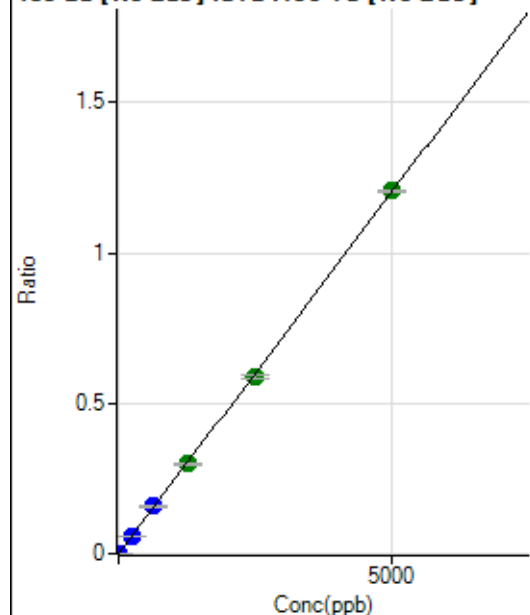
$$DL = 0.005553$$

$$BEC = 0.004375$$

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	77.78	0.0000	P	35.4
2	☐	10.000	9.660	44438.91	0.0023	P	2.9
3	☐	250.000	252.034	1170047.40	0.0605	P	0.1
4	☐	625.000	653.316	2952801.84	0.1569	P	1.2
5	☐	1250.000	1241.864	5742476.13	0.2983	A	0.9
6	☐	2500.000	2450.754	11493412.06	0.5886	A	1.6
7	☐	5000.000	5023.016	23056237.67	1.2064	A	0.6
8	☐			34658.30	0.0021	P	0.4

$$y = 2.4017E-004 * x + 3.9351E-006$$

$$R = 0.9999$$

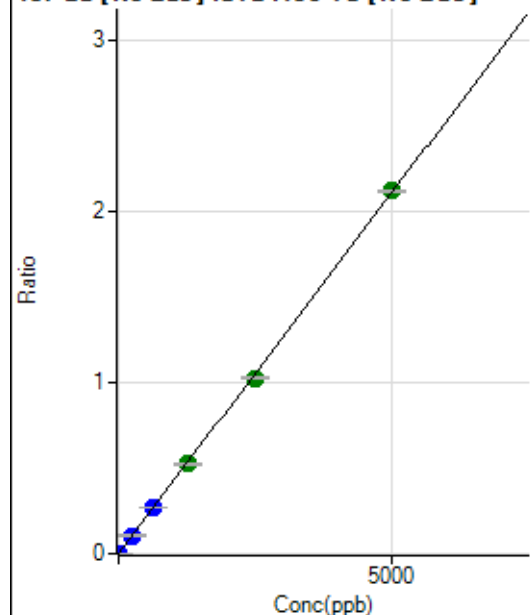
$$DL = 0.0174$$

$$BEC = 0.01638$$

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	77.78	0.0000	P	21.3
2	☐	10.000	9.585	77251.47	0.0040	P	1.2
3	☐	250.000	252.389	2053883.36	0.1063	P	0.9
4	☐	625.000	648.301	5136236.44	0.2729	P	1.4
5	☐	1250.000	1240.480	10055481.99	0.5223	A	0.2
6	☐	2500.000	2439.189	20052843.16	1.0269	A	1.2
7	☐	5000.000	5029.754	40471196.74	2.1176	A	0.3
8	☐			60401.83	0.0037	P	1.6

$$y = 4.2101E-004 * x + 3.9224E-006$$

$$R = 0.9999$$

$$DL = 0.005959$$

$$BEC = 0.009317$$

Weight: <None>

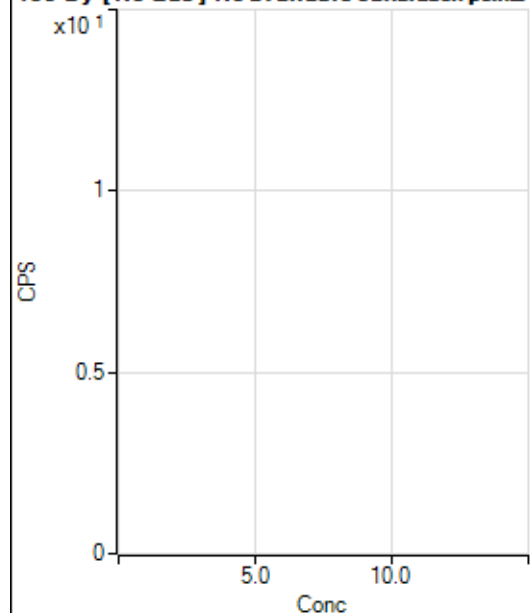
Min Conc: 0

150 Nd [No Gas] No available calibration points

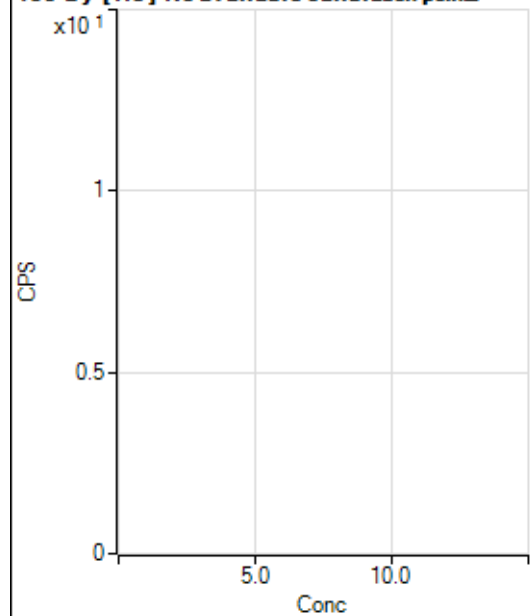
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			15.55		P	24.8
3	☐			168.90		P	16.4
4	☐			453.36		P	16.7
5	☐			753.39		P	10.1
6	☐			1484.58		P	3.1
7	☐			2933.75		P	3.8
8	☐			75.56		P	5.1

150 Nd [He] No available calibration points

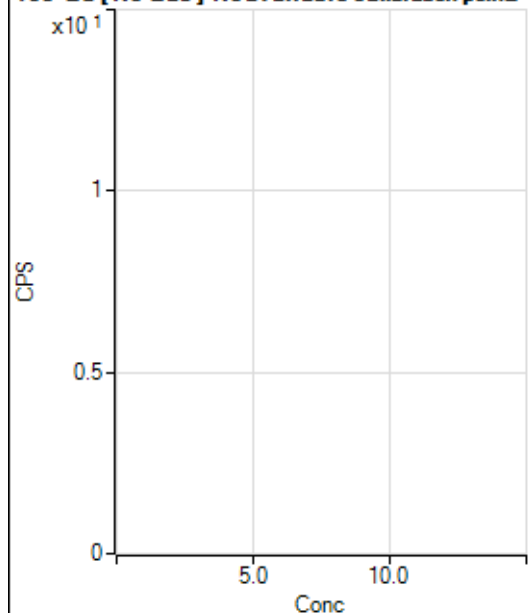
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			2.22		P	86.6
3	☐			12.22		P	56.8
4	☐			33.33		P	30.0
5	☐			45.55		P	34.6
6	☐			108.89		P	19.4
7	☐			167.78		P	24.5
8	☐			24.45		P	43.8

156 Dy [No Gas] No available calibration points

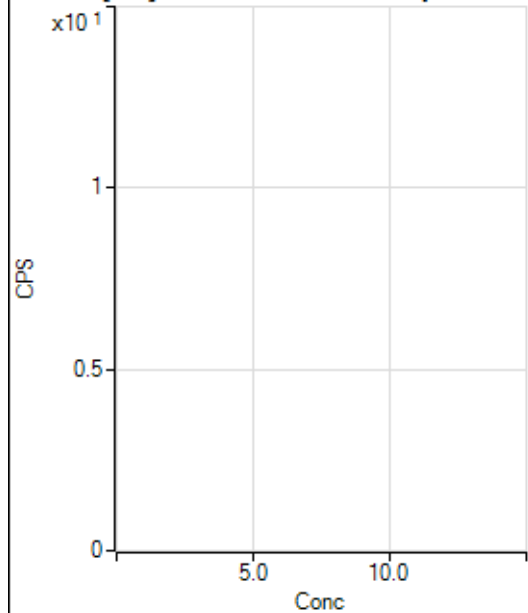
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			55.56		P	96.4
2	☐			36.11		P	13.3
3	☐			75.00		P	50.9
4	☐			175.01		P	16.5
5	☐			208.35		P	25.0
6	☐			450.03		P	21.4
7	☐			733.38		P	10.8
8	☐			1294.57		P	6.7

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14.45		P	48.0
2	☐			16.67		P	60.0
3	☐			35.56		P	28.6
4	☐			82.23		P	37.7
5	☐			127.78		P	10.9
6	☐			263.34		P	16.7
7	☐			481.13		P	3.8
8	☐			618.91		P	1.7

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

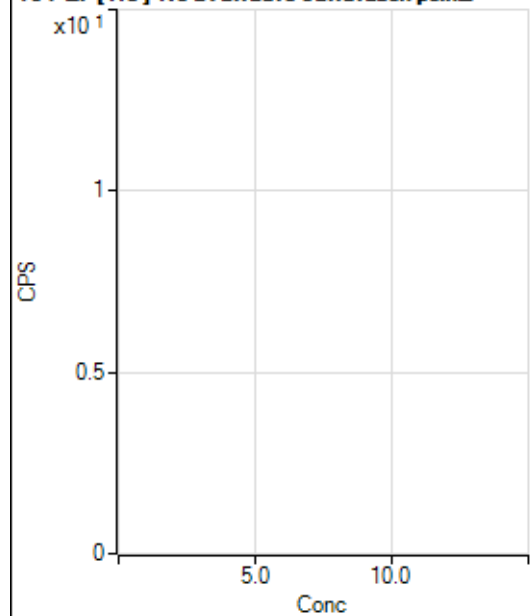
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			144.45		P	8.8
2	☐			175.01		P	29.7
3	☐			188.90		P	10.2
4	☐			197.23		P	14.8
5	☐			255.57		P	5.0
6	☐			319.46		P	15.7
7	☐			522.26		P	6.6
8	☐			1419.59		P	3.2

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			291.12		P	8.9
2	☐			296.68		P	12.2
3	☐			302.23		P	9.0
4	☐			274.45		P	9.7
5	☐			324.45		P	4.3
6	☐			320.01		P	6.2
7	☐			481.13		P	6.1
8	☐			923.38		P	5.8

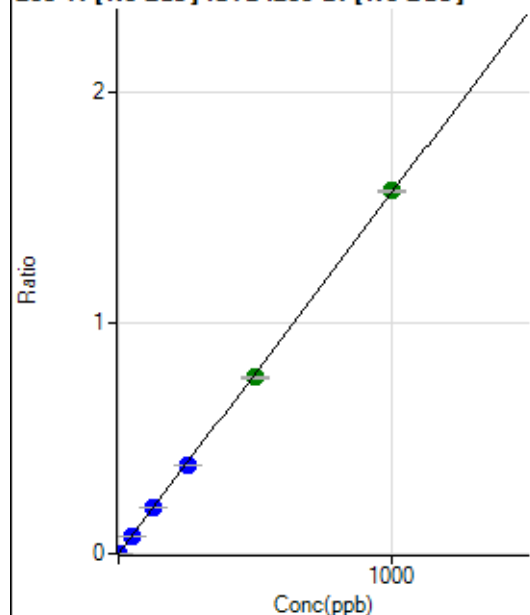
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			102.78		P	23.4
2	☐			91.67		P	24.1
3	☐			94.45		P	48.6
4	☐			77.78		P	22.3
5	☐			125.01		P	24.0
6	☐			163.90		P	20.5
7	☐			141.68		P	31.1
8	☐			211.12		P	6.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			40.00		P	30.0
2	☐			50.00		P	24.0
3	☐			35.55		P	19.5
4	☐			46.67		P	28.6
5	☐			53.33		P	10.8
6	☐			62.22		P	21.7
7	☐			66.67		P	5.0
8	☐			107.78		P	17.6

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	191.68	0.0000	P	13.9
2	☐	1.000	0.923	17089.42	0.0015	P	2.6
3	☐	50.000	48.809	901418.13	0.0764	P	0.6
4	☐	125.000	128.198	2271593.02	0.2007	P	0.8
5	☐	250.000	244.138	4363526.62	0.3823	P	1.0
6	☐	500.000	490.086	8704504.27	0.7673	A	1.0
7	☐	1000.000	1006.083	17006388.05	1.5752	A	0.4
8	☐			977.87	0.0001	P	4.4

$$y = 0.0016 * x + 1.5956E-005$$

$$R = 0.9999$$

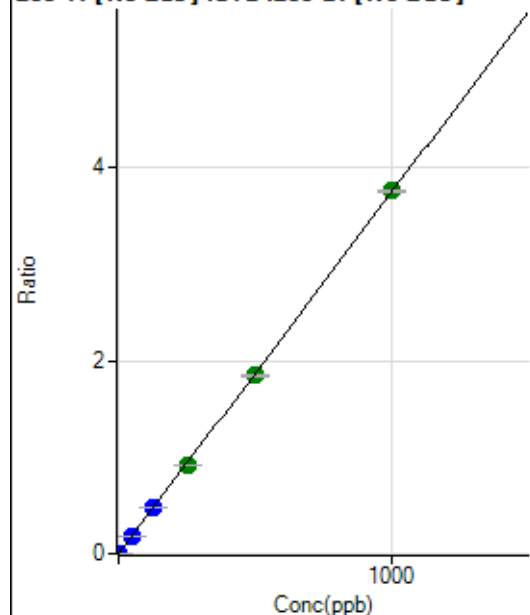
$$DL = 0.004255$$

$$BEC = 0.01019$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	541.70	0.0000	P	22.1
2	☐	1.000	0.925	41039.56	0.0035	P	1.0
3	☐	50.000	48.961	2161839.27	0.1833	P	0.8
4	☐	125.000	127.881	5417437.23	0.4787	P	1.0
5	☐	250.000	244.594	10452461.43	0.9156	A	0.3
6	☐	500.000	492.897	20929250.29	1.8450	A	1.2
7	☐	1000.000	1004.595	40599407.16	3.7604	A	0.7
8	☐			2569.83	0.0003	P	5.5

$$y = 0.0037 * x + 4.5173E-005$$

$$R = 0.9999$$

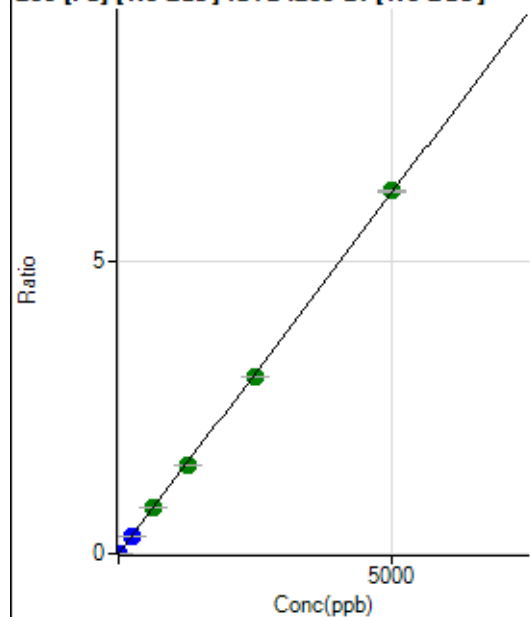
$$DL = 0.007995$$

$$BEC = 0.01207$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	442.61	0.0000	P	14.6
2	☐	1.000	0.984	14602.84	0.0012	P	2.3
3	☐	250.000	248.728	3612478.38	0.3063	P	0.7
4	☐	625.000	638.995	8905346.32	0.7869	A	0.5
5	☐	1250.000	1225.521	17228510.11	1.5091	A	0.9
6	☐	2500.000	2453.480	34273078.31	3.0213	A	0.8
7	☐	5000.000	5027.694	66842558.44	6.1911	A	0.4
8	☐			11054.85	0.0013	P	1.8

$$y = 0.0012 * x + 3.6829E-005$$

$$R = 0.9999$$

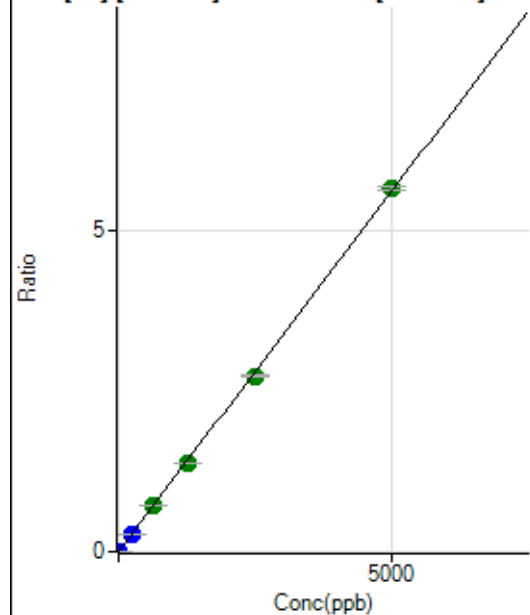
$$DL = 0.01307$$

$$BEC = 0.02991$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	351.87	0.0000	P	6.1
2	☐	1.000	0.924	12482.14	0.0011	P	2.2
3	☐	250.000	248.348	3290538.93	0.2790	P	0.6
4	☐	625.000	635.973	8084986.99	0.7145	A	1.8
5	☐	1250.000	1225.375	15713923.38	1.3766	A	1.7
6	☐	2500.000	2439.430	31086954.63	2.7405	A	1.1
7	☐	5000.000	5035.152	61068399.05	5.6564	A	1.1
8	☐			9483.29	0.0011	P	2.0

$$y = 0.0011 * x + 2.9241E-005$$

$$R = 0.9999$$

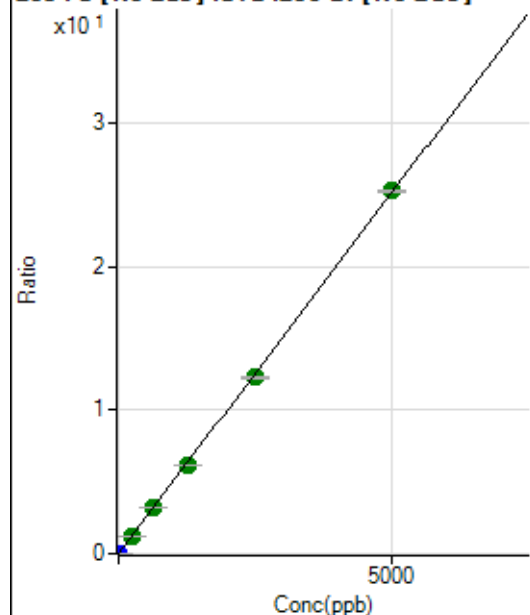
$$DL = 0.004728$$

$$BEC = 0.02603$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1659.35	0.0001	P	5.0
2	☐	1.000	0.960	57941.67	0.0050	P	0.3
3	☐	250.000	245.723	14546301.69	1.2335	A	0.6
4	☐	625.000	635.251	36081953.41	3.1885	A	1.5
5	☐	1250.000	1226.147	70253534.32	6.1543	A	1.2
6	☐	2500.000	2443.921	139148188.3	12.2665	A	1.0
7	☐	5000.000	5032.935	272726132.9	25.2611	A	0.7
8	☐			43584.56	0.0051	P	0.4

$$y = 0.0050 * x + 1.3794E-004$$

$$R = 0.9999$$

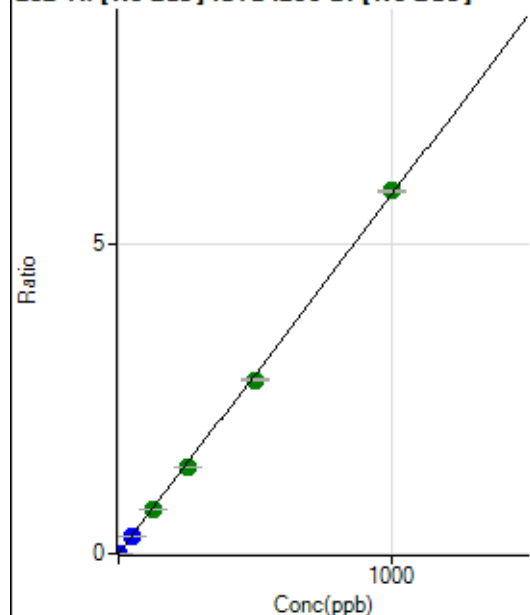
$$DL = 0.004162$$

$$BEC = 0.02748$$

Weight: <None>

Min Conc: 0

232 Th [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1472.35	0.0001	P	8.8
2	☐	1.000	-0.003	1250.11	0.0001	P	2.9
3	☐	50.000	46.166	3162908.95	0.2682	P	0.6
4	☐	125.000	123.000	8083902.15	0.7144	A	1.1
5	☐	250.000	240.577	15948972.70	1.3971	A	0.7
6	☐	500.000	483.166	31828221.78	2.8058	A	1.3
7	☐	1000.000	1011.215	63396779.66	5.8720	A	0.7
8	☐			6166.44	0.0007	P	5.7

$$y = 0.0058 * x + 1.2255E-004$$

$$R = 0.9998$$

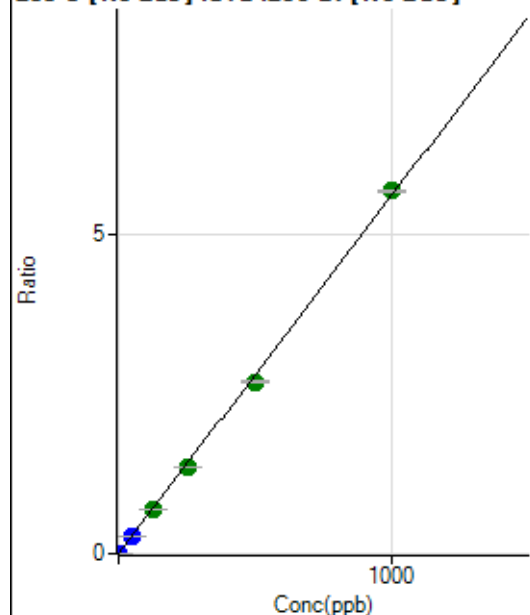
$$DL = 0.005588$$

$$BEC = 0.0211$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	13.89	0.0000	P	126.
2	☐	1.000	0.872	57209.98	0.0049	P	2.2
3	☐	50.000	46.668	3088717.47	0.2619	P	0.6
4	☐	125.000	123.655	7852491.23	0.6940	A	2.2
5	☐	250.000	239.974	15374115.62	1.3468	A	0.8
6	☐	500.000	479.168	30503881.58	2.6891	A	1.5
7	☐	1000.000	1013.258	61393544.43	5.6865	A	0.6
8	☐			6279.58	0.0007	P	4.0

$$y = 0.0056 * x + 1.1686E-006$$

$$R = 0.9996$$

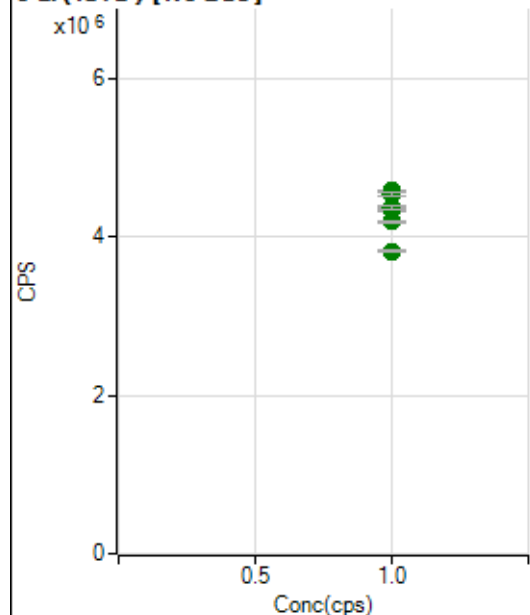
$$DL = 0.0007885$$

$$BEC = 0.0002082$$

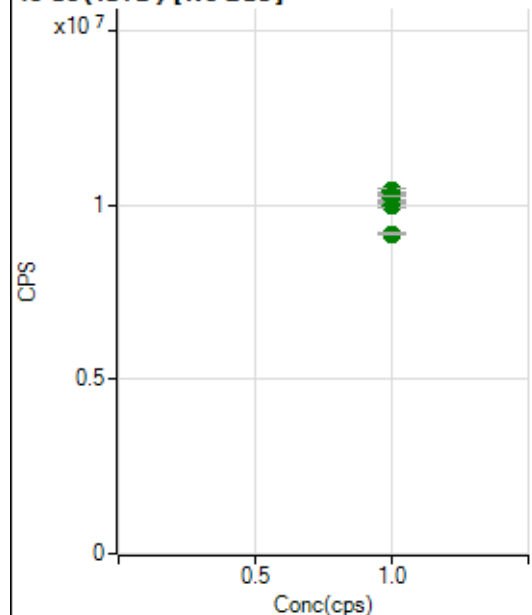
Weight: <None>

Min Conc: 0

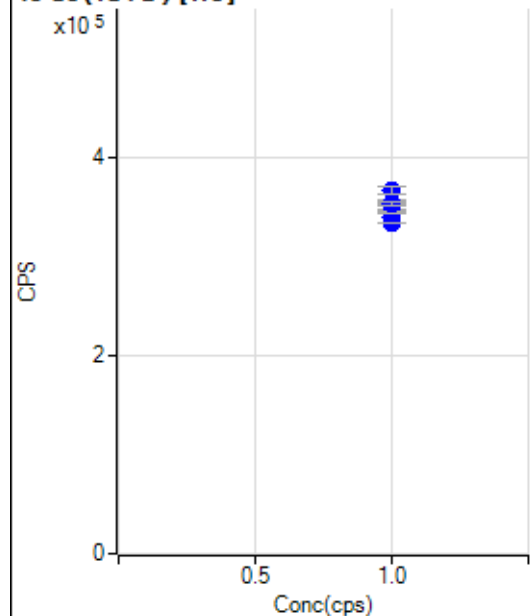
6 Li (ISTD) [No Gas]



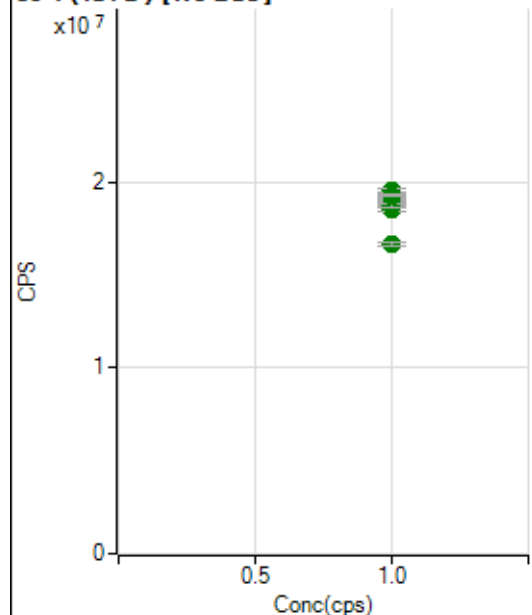
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		4587382.88		A	0.7
2	☐	1.000		4575162.26		A	0.3
3	☐	1.000		4547545.00		A	0.6
4	☐	1.000		4366492.33		A	2.0
5	☐	1.000		4349430.84		A	1.0
6	☐	1.000		4378726.18		A	0.7
7	☐	1.000		4196381.74		A	0.5
8	☐	1.000		3822349.25		A	0.7

45 Sc (ISTD) [No Gas]

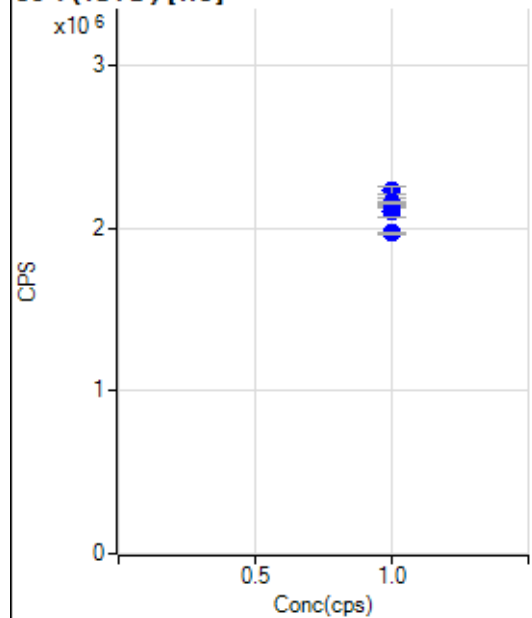
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10414866.44		A	1.2
2	☐	1.000		10231092.07		A	1.2
3	☐	1.000		10352805.54		A	0.2
4	☐	1.000		10009725.48		A	1.1
5	☐	1.000		10128581.24		A	0.1
6	☐	1.000		10392698.45		A	1.8
7	☐	1.000		10261023.18		A	0.1
8	☐	1.000		9180384.10		A	0.5

45 Sc (ISTD) [He]

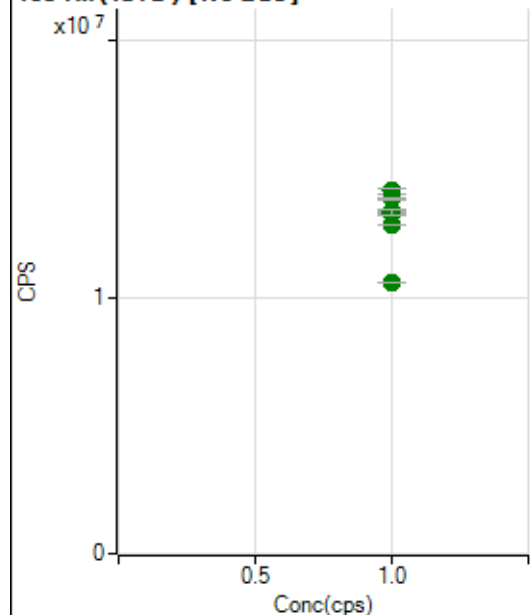
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		351117.56		P	0.7
2	☐	1.000		352860.83		P	0.7
3	☐	1.000		365670.59		P	2.3
4	☐	1.000		340033.11		P	3.7
5	☐	1.000		343621.49		P	0.6
6	☐	1.000		353645.41		P	1.8
7	☐	1.000		352580.22		P	1.4
8	☐	1.000		333530.77		P	0.5

89 Y (ISTD) [No Gas]

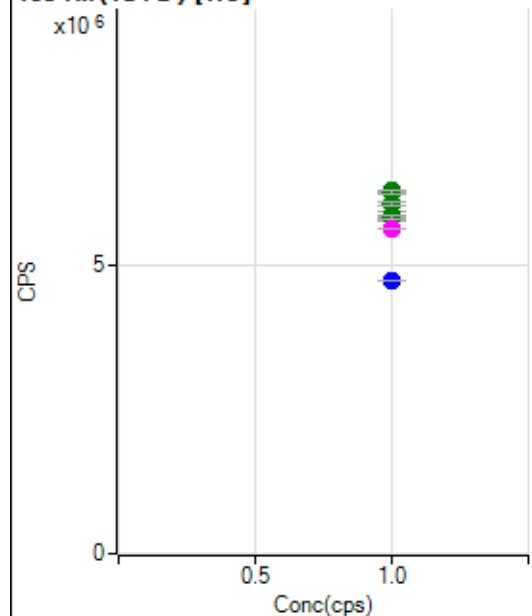
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		19546644.01		A	1.0
2	☐	1.000		18868452.36		A	0.9
3	☐	1.000		19128519.99		A	0.2
4	☐	1.000		18555307.50		A	1.3
5	☐	1.000		18746021.53		A	1.0
6	☐	1.000		19298529.57		A	0.5
7	☐	1.000		19302613.46		A	0.4
8	☐	1.000		16641804.61		A	1.2

89 Y (ISTD) [He]

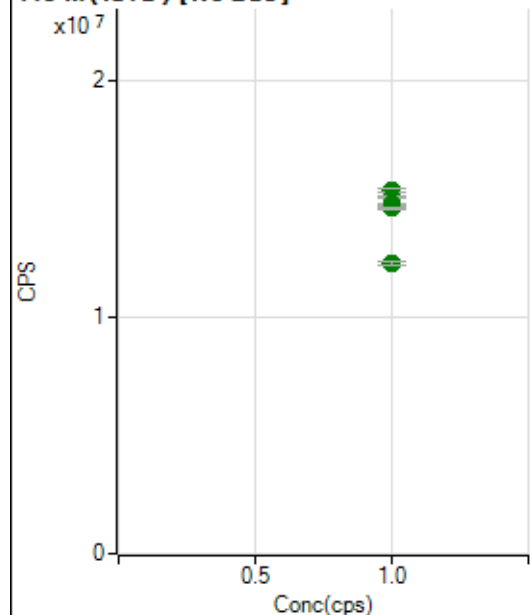
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2136215.30		P	1.1
2	☐	1.000		2152134.00		P	0.2
3	☐	1.000		2226671.44		P	2.1
4	☐	1.000		2103278.91		P	3.5
5	☐	1.000		2126185.87		P	0.4
6	☐	1.000		2159056.81		P	1.8
7	☐	1.000		2151714.03		P	0.9
8	☐	1.000		1966164.12		P	0.6

103 Rh (ISTD) [No Gas]

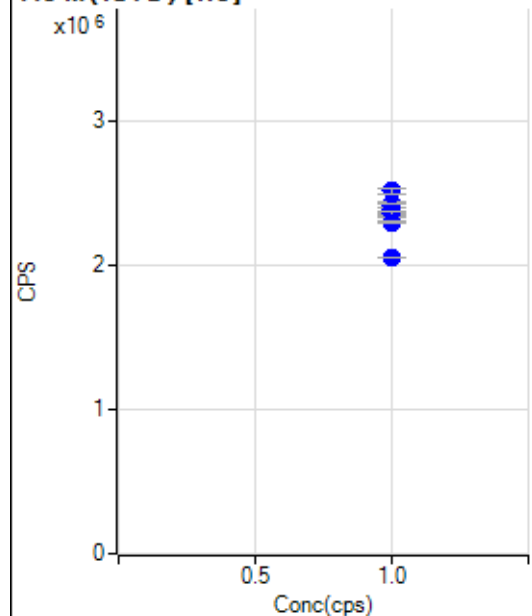
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14141507.01		A	1.3
2	☐	1.000		13888288.82		A	1.5
3	☐	1.000		13832433.13		A	0.1
4	☐	1.000		13265275.64		A	1.0
5	☐	1.000		13349080.36		A	0.8
6	☐	1.000		13275469.66		A	1.7
7	☐	1.000		12836106.20		A	0.3
8	☐	1.000		10567441.16		A	0.5

103 Rh (ISTD) [He]

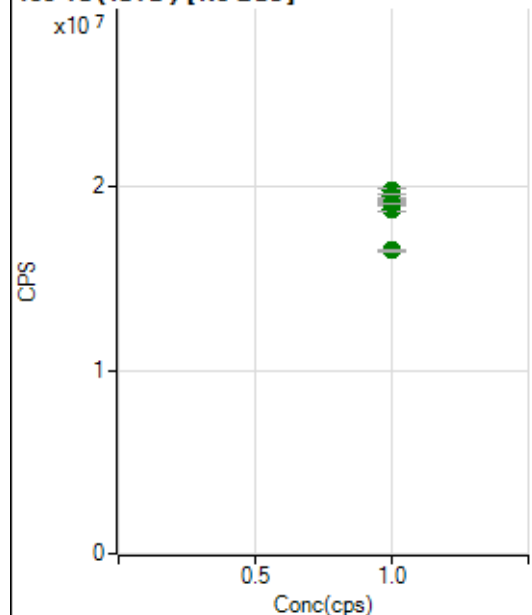
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6287851.71		A	0.2
2	☐	1.000		6071061.37		A	0.8
3	☐	1.000		6263493.17		A	1.2
4	☐	1.000		5847653.73		A	3.2
5	☐	1.000		5859541.37		A	0.8
6	☐	1.000		5825983.80		A	1.4
7	☐	1.000		5639410.75		M	0.3
8	☐	1.000		4735527.53		P	0.4

115 In (ISTD) [No Gas]

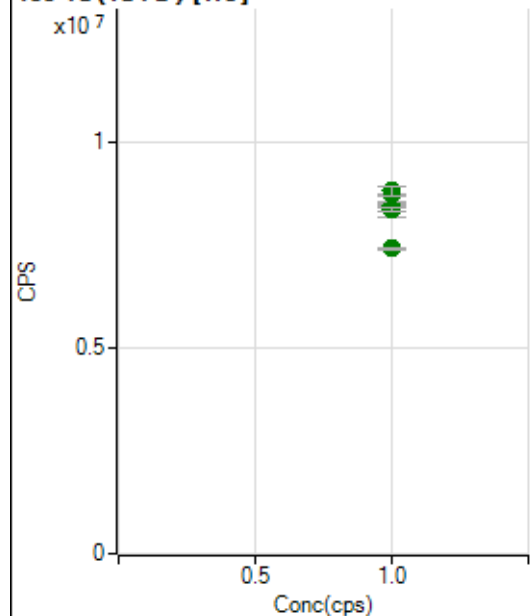
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15355489.18		A	1.2
2	☐	1.000		14788167.35		A	0.4
3	☐	1.000		15074939.11		A	0.3
4	☐	1.000		14762851.44		A	0.3
5	☐	1.000		14694302.08		A	0.4
6	☐	1.000		14794650.69		A	0.5
7	☐	1.000		14626939.53		A	0.3
8	☐	1.000		12282242.02		A	0.9

115 In (ISTD) [He]

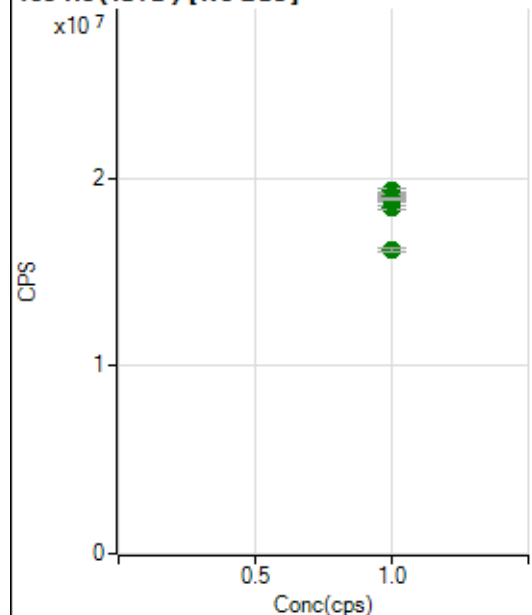
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2408783.70		P	0.9
2	☐	1.000		2426021.73		P	0.4
3	☐	1.000		2511646.97		P	1.9
4	☐	1.000		2385612.09		P	3.2
5	☐	1.000		2359672.32		P	0.4
6	☐	1.000		2352942.19		P	1.5
7	☐	1.000		2293142.24		P	0.6
8	☐	1.000		2049126.95		P	0.2

159 Tb (ISTD) [No Gas]

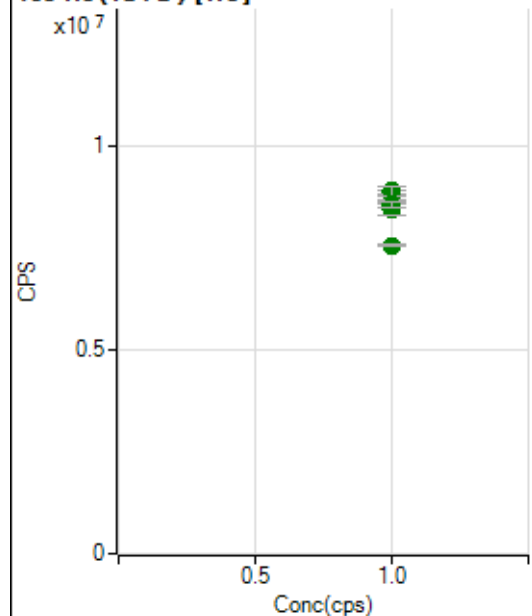
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		19803144.01		A	1.7
2	☐	1.000		19126340.69		A	1.2
3	☐	1.000		19328380.96		A	0.1
4	☐	1.000		18820336.94		A	1.5
5	☐	1.000		19253981.66		A	0.9
6	☐	1.000		19529322.49		A	1.5
7	☐	1.000		19111978.74		A	0.2
8	☐	1.000		16539008.36		A	0.5

159 Tb (ISTD) [He]

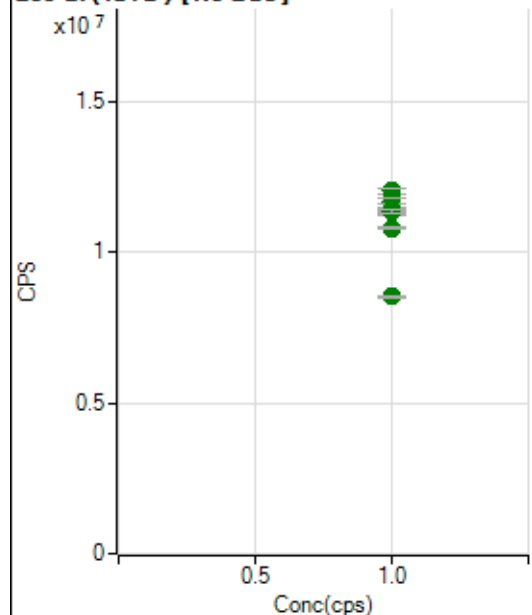
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8729644.52		A	0.8
2	☐	1.000		8489723.83		A	0.3
3	☐	1.000		8827903.76		A	2.7
4	☐	1.000		8359781.20		A	4.0
5	☐	1.000		8491000.01		A	0.4
6	☐	1.000		8485389.04		A	1.5
7	☐	1.000		8377133.70		A	1.1
8	☐	1.000		7426952.81		A	0.4

165 Ho (ISTD) [No Gas]

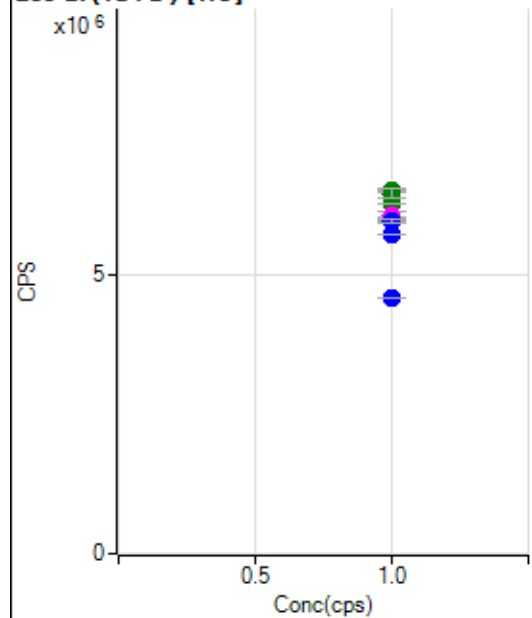
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		19337079.57		A	1.0
2	☐	1.000		18808285.00		A	1.0
3	☐	1.000		18964568.05		A	0.8
4	☐	1.000		18484142.50		A	1.1
5	☐	1.000		18790604.86		A	0.7
6	☐	1.000		19100112.63		A	1.2
7	☐	1.000		18867398.75		A	0.5
8	☐	1.000		16173486.29		A	1.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8880446.26		A	1.0
2	☐	1.000		8622574.39		A	0.4
3	☐	1.000		8911651.54		A	2.4
4	☐	1.000		8456298.00		A	2.9
5	☐	1.000		8609111.54		A	0.2
6	☐	1.000		8593351.05		A	1.8
7	☐	1.000		8572078.90		A	1.2
8	☐	1.000		7576350.16		A	0.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12025324.68		A	1.9
2	☐	1.000		11694723.71		A	1.2
3	☐	1.000		11793348.44		A	0.4
4	☐	1.000		11317344.83		A	1.3
5	☐	1.000		11415994.28		A	1.1
6	☐	1.000		11345010.53		A	1.6
7	☐	1.000		10796421.65		A	0.3
8	☐	1.000		8519348.70		A	0.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6521376.57		A	0.4
2	☐	1.000		6289083.65		A	0.4
3	☐	1.000		6466617.96		A	2.7
4	☐	1.000		6071336.85		M	3.0
5	☐	1.000		6038593.18		M	0.7
6	☐	1.000		5973098.73		P	1.4
7	☐	1.000		5735049.84		P	0.5
8	☐	1.000		4597696.81		P	0.5

US EPA Tune Check Sample Report

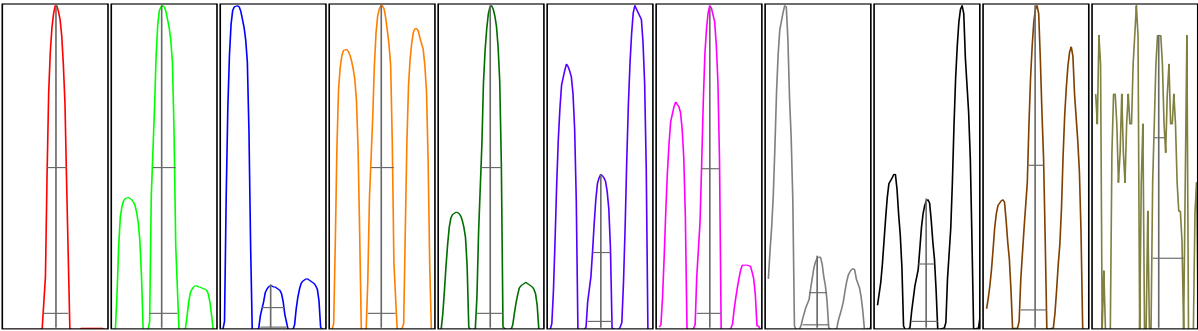
Batch Folder D:\ICP-MS Data\1\DATA\P7062420MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	14246	0.75	5.00	
24	198925	0.54	5.00	
25	26469	0.70	5.00	
26	30219	0.78	5.00	
59	101467	0.71	5.00	
113	18564	0.78	5.00	
115	55008	1.53	5.00	
206	22030	0.86	5.00	
207	18354	0.91	5.00	
208	45111	0.79	5.00	
220	0	33.20		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	14386	14152	14194	14163	14335
24	200243	197862	198896	197896	199728
25	26649	26385	26404	26236	26671
26	30424	30050	30119	29985	30517
59	102623	100729	101247	101109	101628
113	18823	18502	18479	18502	18516
115	56478	54475	54655	54521	54909
206	22140	21725	22001	22061	22223
207	18362	18186	18209	18417	18594
208	45231	44791	44831	45036	45664
220	0	0	0	0	0

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	25609	9.05	8.9 - 9.1		0.730	0.900	
24	318445	23.95	23.9 - 24.1		0.787	0.900	
25	42580	24.95	24.9 - 25.1		0.787	0.900	
26	49151	26.00	25.9 - 26.1		0.822	0.900	
59	173022	59.00	58.9 - 59.1		0.772	0.900	
113	34193	113.05	112.9 - 113.1		0.736	0.900	
115	101438	115.05	114.9 - 115.1		0.734	0.900	
206	44201	206.00	205.9 - 206.1		0.780	0.900	
207	36996	207.00	206.9 - 207.1		0.774	0.900	
208	91977	208.00	207.9 - 208.1		0.775	0.900	
220	1	220.40	-		0.886		

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	0.76	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	7.4	V	Deflect	13.0	V
Extract 2	-130.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-60	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	180	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	22063	0.37	
89	64278	0.62	
205	53358	0.67	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	22168	22065	22085	21940	22055
89	64529	64477	64679	63905	63799
205	53758	53458	53600	52952	53023

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.76	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	8.0	V	Deflect	2.2	V
Extract 2	-145.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-60	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			