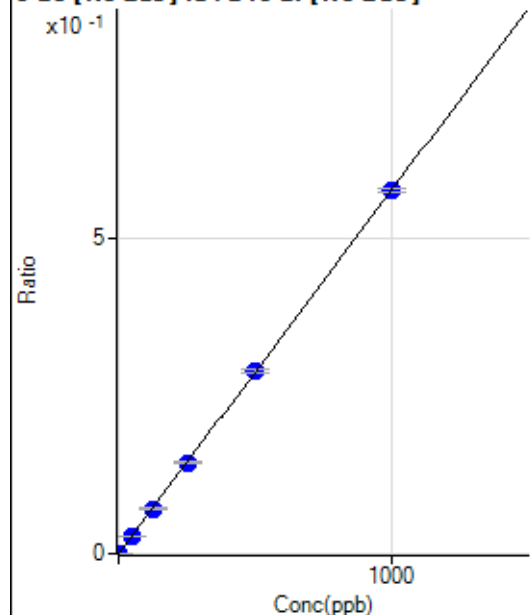


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8122920 MS.b\
Analysis File: P8122920 MS.batch.bin
DA Date-Time: 2020-12-29 18:19:50
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-12-29 14:36:25
2	004CALS.d	S02	2020-12-29 14:39:27
3	005CALS.d	S03	2020-12-29 14:42:26
4	006CALS.d	S04	2020-12-29 14:45:28
5	007CALS.d	S05	2020-12-29 14:48:26
6	008CALS.d	S06	2020-12-29 14:51:27
7	009CALS.d	S07	2020-12-29 14:54:25
8	011CALS.d	S08	2020-12-29 15:00:25

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.65	0.0001	P	17.9
2	☐	1.000	0.939	769.20	0.0006	P	6.8
3	☐	50.000	49.640	36709.44	0.0286	P	1.7
4	☐	125.000	122.622	92592.80	0.0706	P	3.0
5	☐	250.000	250.564	187466.82	0.1442	P	1.7
6	☐	500.000	503.723	370056.62	0.2898	P	2.5
7	☐	1000.000	998.313	748197.63	0.5742	P	0.9
8	☐			311.28	0.0002	P	8.0

$$y = 5.7515\text{E-}004 * x + 6.5440\text{E-}005$$

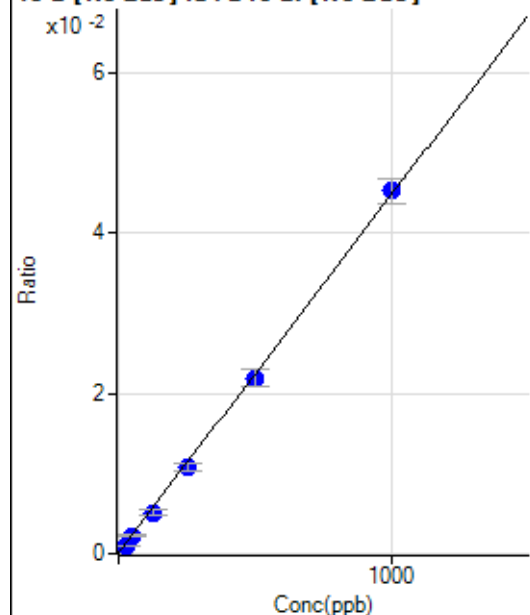
$$R = 1.0000$$

$$DL = 0.06101$$

$$BEC = 0.1138$$

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	143.97	0.0001	P	9.8
2	☐	25.000	19.854	1277.14	0.0010	P	10.3
3	☐	50.000	46.313	2804.39	0.0022	P	8.7
4	☐	125.000	112.537	6742.24	0.0051	P	10.8
5	☐	250.000	240.222	14106.02	0.0108	P	9.0
6	☐	500.000	487.944	27975.02	0.0219	P	9.2
7	☐	1000.000	1010.344	58973.38	0.0452	P	7.2
8	☐			3314.40	0.0025	P	0.4

$$y = 4.4665\text{E-}005 * x + 1.1661\text{E-}004$$

$$R = 0.9998$$

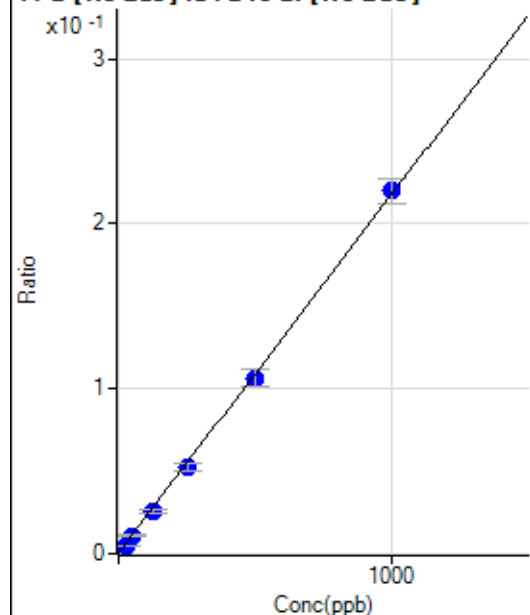
$$DL = 0.7675$$

$$BEC = 2.611$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	630.56	0.0005	P	2.2
2	☐	25.000	20.019	6182.11	0.0049	P	9.3
3	☐	50.000	46.287	13556.26	0.0106	P	9.8
4	☐	125.000	114.197	33178.20	0.0253	P	10.7
5	☐	250.000	238.624	68052.54	0.0523	P	8.1
6	☐	500.000	488.474	136109.03	0.1066	P	8.9
7	☐	1000.000	1010.268	286652.35	0.2199	P	7.2
8	☐			15825.38	0.0117	P	3.6

$$y = 2.1717E-004 * x + 5.0986E-004$$

$$R = 0.9998$$

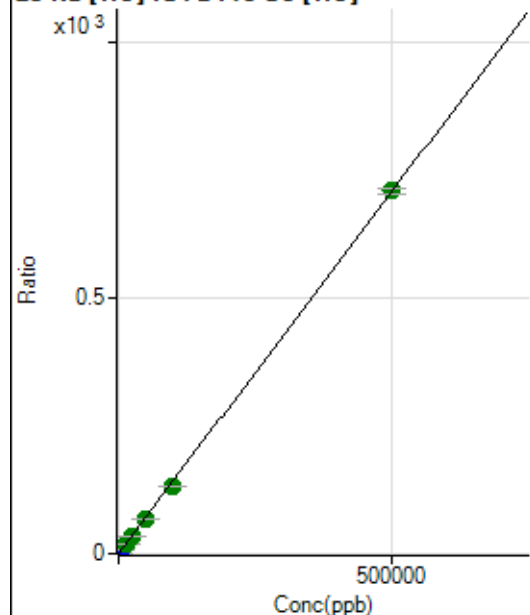
$$DL = 0.1545$$

$$BEC = 2.348$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	29408.04	0.4328	P	2.5
2	☐	500.000	442.907	72259.61	1.0587	P	1.2
3	☐	5000.000	4789.773	499533.50	7.2012	P	0.5
4	☐	12500.000	11915.308	1190066.60	17.2703	A	1.8
5	☐	25000.000	23839.713	2354315.96	34.1206	A	0.9
6	☐	50000.000	47047.130	4741470.50	66.9149	A	1.1
7	☐	100000.00	93512.123	9534467.66	132.5744	A	1.0
8	☐	500000.00	501667.65	48303636.84	709.3371	A	1.4

$$y = 0.0014 * x + 0.4328$$

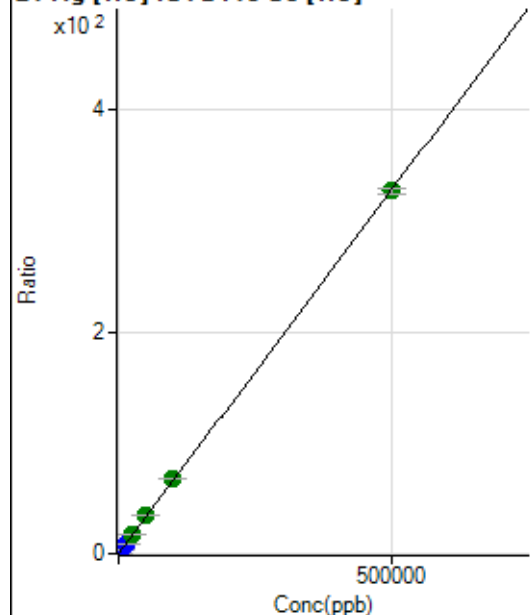
$$R = 0.9999$$

$$DL = 23.14$$

$$BEC = 306.3$$

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	613.92	0.0090	P	6.3
2	☐	500.000	484.824	22328.68	0.3271	P	2.0
3	☐	5000.000	5345.710	243895.76	3.5159	P	0.6
4	☐	12500.000	13186.911	596742.34	8.6599	P	1.1
5	☐	25000.000	26373.816	1194539.43	17.3107	A	0.8
6	☐	50000.000	52976.361	2463010.19	34.7624	A	2.6
7	☐	100000.00	103539.23	4885537.17	67.9325	A	0.3
8	☐	500000.00	498905.21	22287947.89	327.2990	A	1.3

$$y = 6.5602\text{E-}004 * x + 0.0090$$

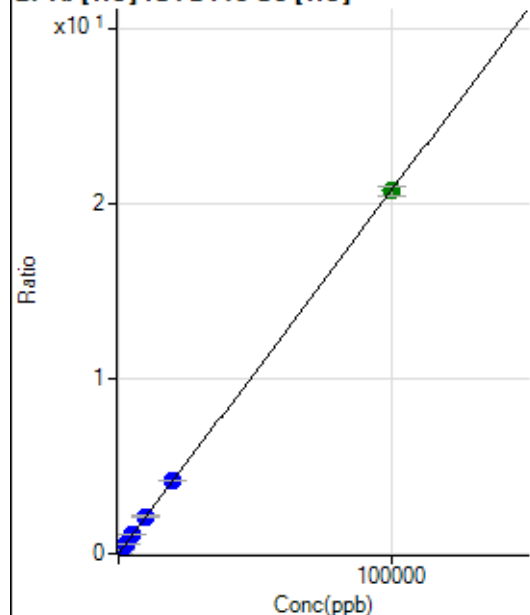
$$R = 1.0000$$

$$DL = 2.614$$

$$BEC = 13.78$$

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	326.21	0.0048	P	11.3
2	☐	20.000	20.253	614.52	0.0090	P	7.1
3	☐	1000.000	1027.609	15146.81	0.2184	P	0.8
4	☐	2500.000	2541.510	36728.90	0.5330	P	0.3
5	☐	5000.000	5183.544	74665.62	1.0821	P	0.8
6	☐	10000.000	10279.525	151712.89	2.1412	P	1.3
7	☐	20000.000	20320.491	304066.52	4.2280	P	0.4
8	☐	100000.00	99897.458	1413992.90	20.7665	A	2.4

$$y = 2.0783\text{E-}004 * x + 0.0048$$

$$R = 1.0000$$

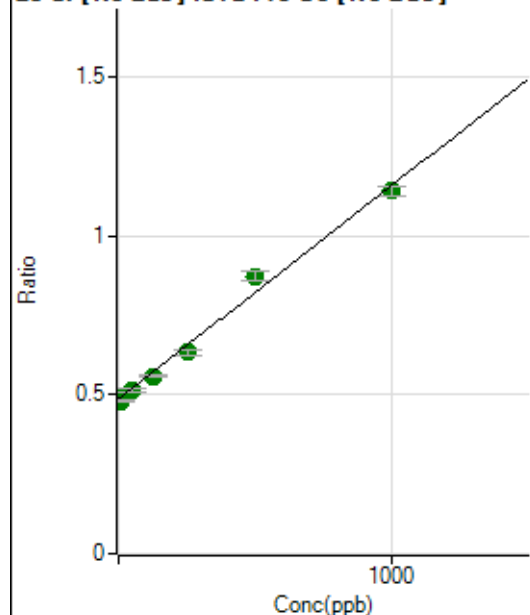
$$DL = 7.832$$

$$BEC = 23.07$$

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	1193221.62	0.4878	A	4.2
2	☐	10.000	-11.019	1228459.90	0.4804	A	1.6
3	☐	50.000	36.111	1290410.77	0.5121	A	2.4
4	☐	125.000	105.089	1453185.60	0.5584	A	1.2
5	☐	250.000	215.829	1660700.33	0.6328	A	2.1
6	☐	500.000	575.460	2304880.09	0.8744	A	3.1
7	☐	1000.000	974.206	3058002.74	1.1423	A	2.8
8	☐			1288545.93	0.4969	A	2.5

$$y = 6.7185\text{E-}004 * x + 0.4878$$

$$R = 0.9950$$

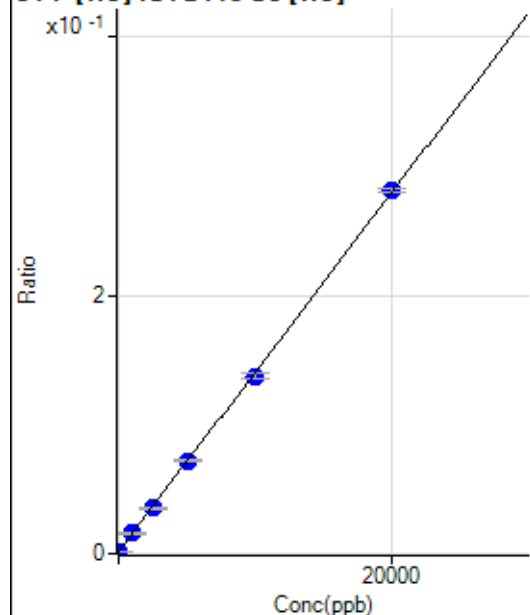
$$DL = 91.72$$

$$BEC = 726.1$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-5.613	102.78	0.0015	P	25.4
2	☐	0.000	5.613	113.89	0.0017	P	14.2
3	☐	1000.000	1024.343	1097.29	0.0158	P	5.9
4	☐	2500.000	2418.987	2425.27	0.0352	P	6.6
5	☐	5000.000	5052.253	4950.97	0.0718	P	2.8
6	☐	10000.000	9776.230	9734.06	0.1374	P	2.8
7	☐	20000.000	20107.731	20200.61	0.2809	P	1.0
8	☐			122.23	0.0018	P	31.0

$$y = 1.3890\text{E-}005 * x + 0.0016$$

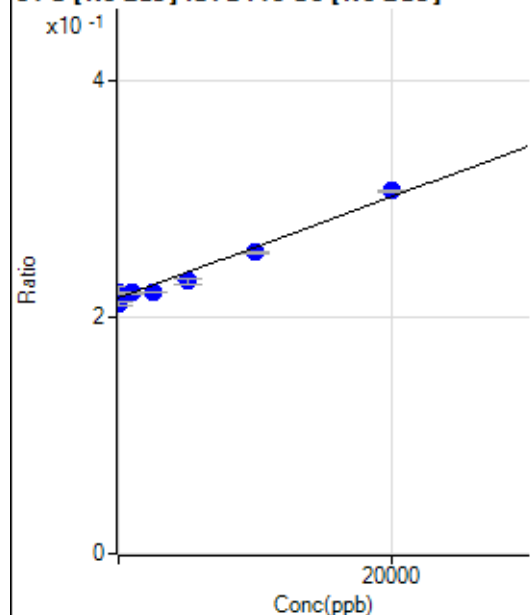
$$R = 0.9999$$

$$DL = 66.94$$

$$BEC = 114.4$$

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	1023.945	540024.37	0.2208	P	4.3
2	☐	0.000	-1023.945	542199.00	0.2120	P	1.5
3	☐	1000.000	1000.456	556180.49	0.2207	P	0.9
4	☐	2500.000	1089.862	575283.84	0.2211	P	0.7
5	☐	5000.000	3286.866	604765.45	0.2304	P	1.9
6	☐	10000.000	8932.135	670959.19	0.2546	P	0.3
7	☐	20000.000	21138.461	821054.43	0.3067	P	0.8
8	☐			536096.15	0.2067	P	1.9

$$y = 4.2710\text{E-}006 * x + 0.2164$$

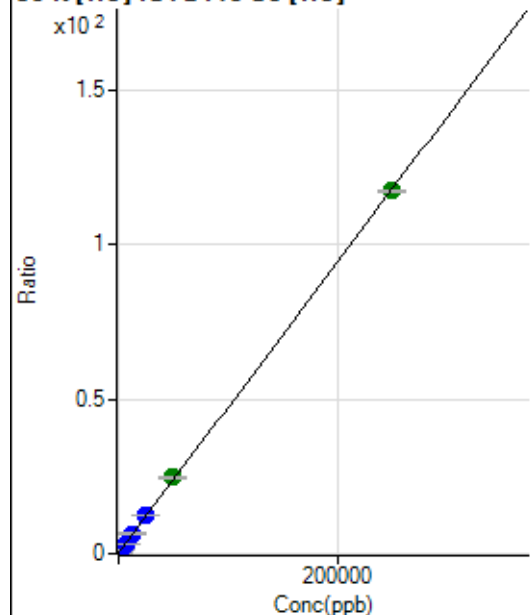
$$R = 0.9899$$

$$DL = 4431$$

$$BEC = 5.067\text{E}+04$$

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	17063.28	0.2511	P	3.1
2	☐	500.000	483.315	32645.75	0.4784	P	3.5
3	☐	2500.000	2657.811	104108.01	1.5009	P	0.7
4	☐	6250.000	6558.666	229828.74	3.3351	P	1.0
5	☐	12500.000	13330.096	449846.73	6.5192	P	0.7
6	☐	25000.000	26353.087	895830.02	12.6429	P	1.1
7	☐	50000.000	51966.201	1775390.99	24.6867	A	1.1
8	☐	250000.00	249420.68	8004074.92	117.5340	A	0.8

$$y = 4.7022\text{E-}004 * x + 0.2511$$

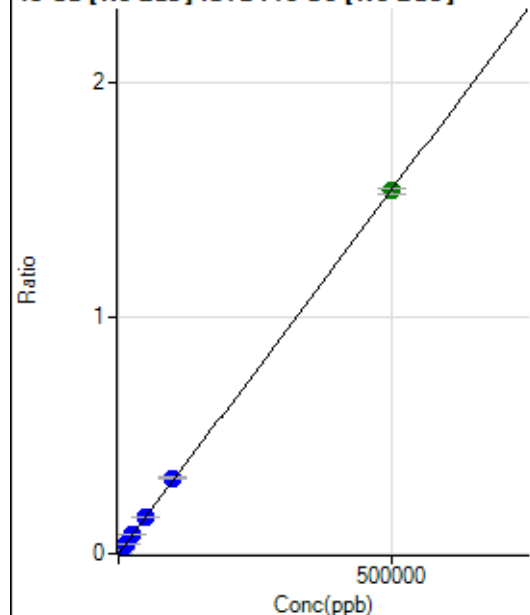
$$R = 1.0000$$

$$DL = 50.18$$

$$BEC = 534$$

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	230.39	0.0001	P	0.9
2	☐	500.000	468.986	3941.31	0.0015	P	0.5
3	☐	5000.000	5259.344	41129.26	0.0163	P	2.5
4	☐	12500.000	12869.569	103574.01	0.0398	P	1.8
5	☐	25000.000	25848.542	209551.32	0.0798	P	1.9
6	☐	50000.000	51198.664	416624.34	0.1581	P	0.5
7	☐	100000.00	103914.86	858554.69	0.3207	P	2.7
8	☐	500000.00	499042.93	3993468.97	1.5398	A	1.3

$$y = 3.0854\text{E-}006 * x + 9.4081\text{E-}005$$

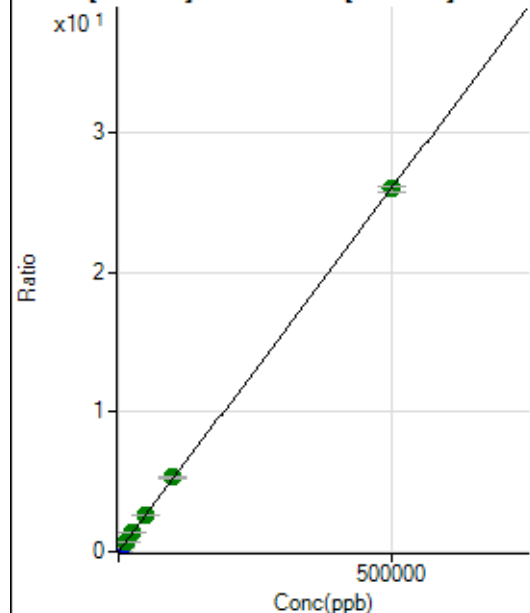
$$R = 1.0000$$

$$DL = 0.8092$$

$$BEC = 30.49$$

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	15960.74	0.0065	P	4.0
2	☐	500.000	471.638	79476.64	0.0311	P	1.2
3	☐	5000.000	5251.048	705353.75	0.2799	P	1.5
4	☐	12500.000	12840.062	1756406.61	0.6750	A	1.8
5	☐	25000.000	25789.784	3540558.40	1.3491	A	2.0
6	☐	50000.000	50770.354	6983623.05	2.6495	A	1.2
7	☐	100000.00	101968.27	14227766.24	5.3148	A	2.7
8	☐	500000.00	499478.83	67448349.07	26.0085	A	1.7

$$y = 5.2058\text{E-}005 * x + 0.0065$$

$$R = 1.0000$$

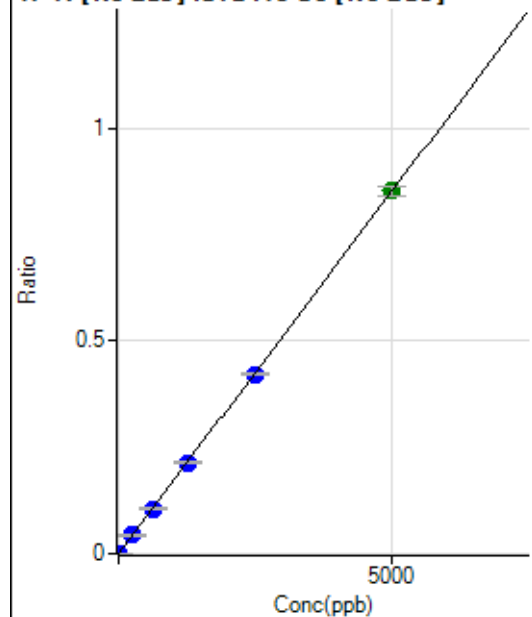
$$DL = 14.87$$

$$BEC = 125.3$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	322.24	0.0001	P	14.0
2	☐	5.000	4.432	2266.91	0.0009	P	3.3
3	☐	250.000	252.537	108643.91	0.0431	P	2.4
4	☐	625.000	622.406	276011.40	0.1061	P	1.7
5	☐	1250.000	1253.805	560361.01	0.2135	P	2.1
6	☐	2500.000	2473.583	1110018.59	0.4211	P	1.2
7	☐	5000.000	5012.455	2284135.45	0.8532	A	2.4
8	☐			502.80	0.0002	P	6.4

$$y = 1.7020\text{E-}004 * x + 1.3184\text{E-}004$$

$$R = 1.0000$$

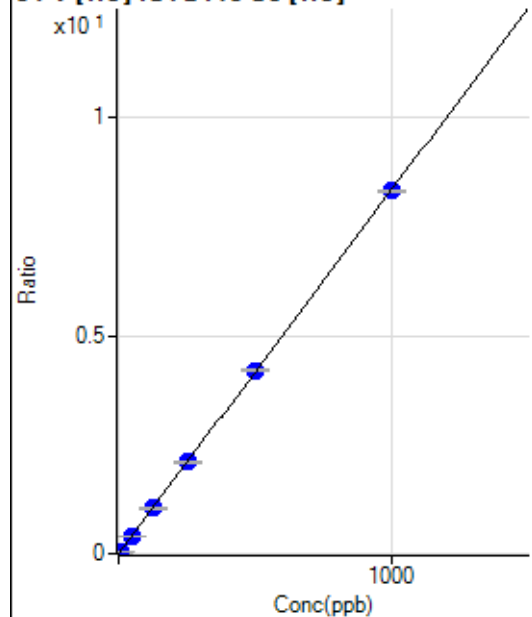
$$DL = 0.3246$$

$$BEC = 0.7746$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8.89	0.0001	P	57.1
2	☐	5.000	4.586	2621.38	0.0384	P	3.3
3	☐	50.000	49.403	28611.95	0.4125	P	0.8
4	☐	125.000	124.343	71525.18	1.0379	P	0.5
5	☐	250.000	251.455	144827.29	2.0989	P	0.6
6	☐	500.000	504.567	298401.97	4.2114	P	1.0
7	☐	1000.000	997.467	598730.77	8.3253	P	0.6
8	☐			63.33	0.0009	P	37.6

$$y = 0.0083 * x + 1.3090\text{E-}004$$

$$R = 1.0000$$

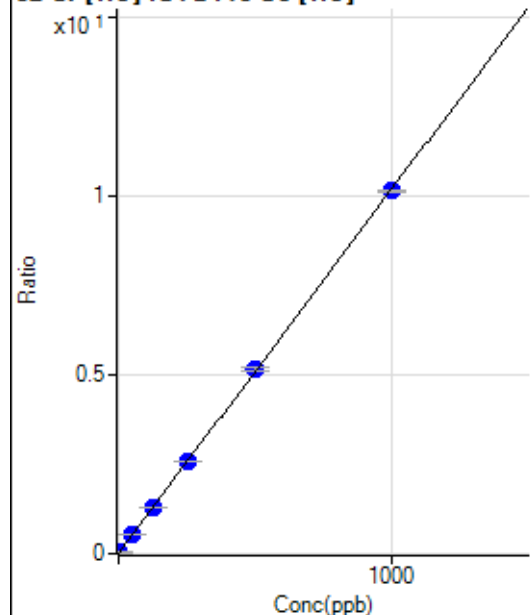
$$DL = 0.02684$$

$$BEC = 0.01568$$

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	504.46	0.0074	P	6.5
2	☐	2.000	1.963	1870.15	0.0274	P	6.2
3	☐	50.000	50.171	35930.62	0.5180	P	0.9
4	☐	125.000	125.746	88688.07	1.2870	P	0.6
5	☐	250.000	253.959	178832.28	2.5917	P	0.7
6	☐	500.000	506.131	365452.80	5.1578	P	1.2
7	☐	1000.000	995.843	729319.23	10.1411	P	0.3
8	☐			2828.09	0.0415	P	3.4

$$y = 0.0102 * x + 0.0074$$

$$R = 1.0000$$

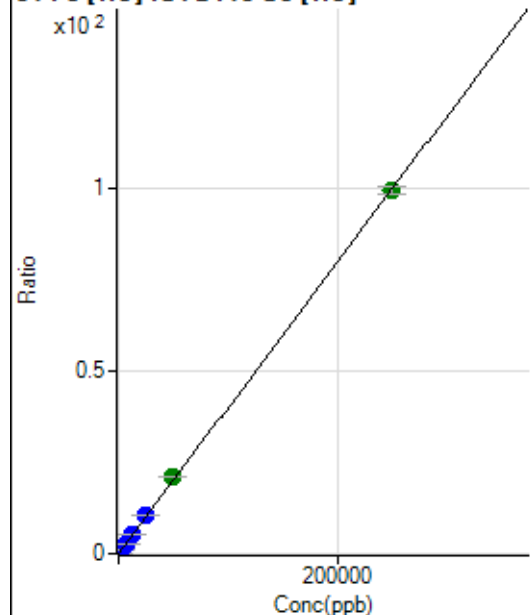
$$DL = 0.1425$$

$$BEC = 0.7294$$

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	298.16	0.0044	P	16.3
2	☐	50.000	50.252	1664.95	0.0244	P	7.6
3	☐	2500.000	2633.456	73089.75	1.0537	P	0.9
4	☐	6250.000	6600.304	181528.59	2.6343	P	1.0
5	☐	12500.000	13397.109	368638.10	5.3426	P	0.8
6	☐	25000.000	26541.991	749658.65	10.5802	P	1.3
7	☐	50000.000	52680.850	1509939.83	20.9955	A	1.3
8	☐	250000.00	249254.68	6762971.97	99.3219	A	2.0

$$y = 3.9846E-004 * x + 0.0044$$

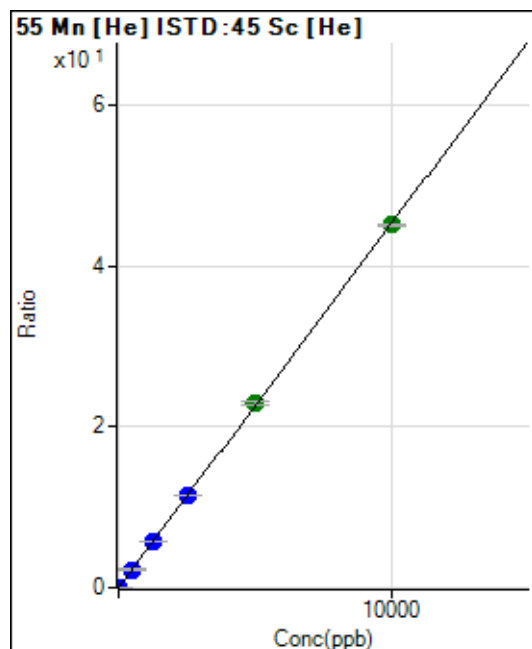
$$R = 0.9999$$

$$DL = 5.382$$

$$BEC = 10.99$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	97.78	0.0014	P	13.5
2	☐	1.000	1.028	415.57	0.0061	P	4.0
3	☐	500.000	500.782	157272.57	2.2672	P	0.4
4	☐	1250.000	1254.776	391317.16	5.6787	P	0.6
5	☐	2500.000	2518.016	786223.97	11.3942	P	0.7
6	☐	5000.000	5067.000	1624449.82	22.9270	A	1.6
7	☐	10000.000	9961.360	3241413.39	45.0715	A	0.6
8	☐			1642.33	0.0241	P	4.1

$$y = 0.0045 * x + 0.0014$$

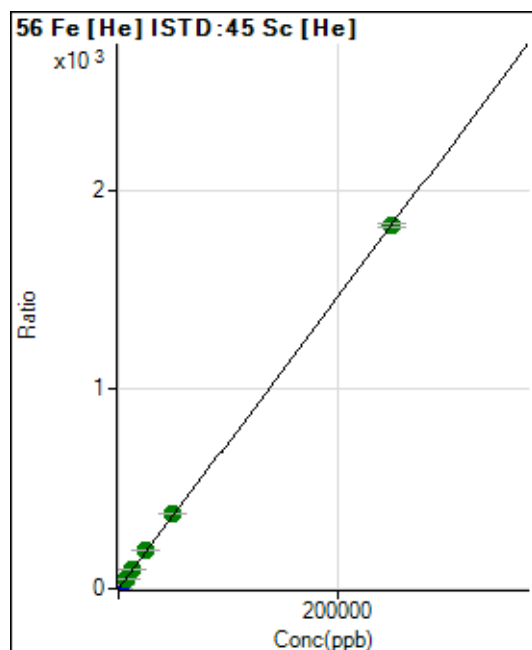
$$R = 1.0000$$

$$DL = 0.1291$$

$$BEC = 0.3182$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2324.30	0.0342	P	5.6
2	☐	50.000	50.373	27404.44	0.4015	P	1.1
3	☐	2500.000	2598.639	1316763.18	18.9822	P	0.3
4	☐	6250.000	6616.097	3326693.10	48.2756	A	0.2
5	☐	12500.000	13131.076	6609137.07	95.7796	A	0.5
6	☐	25000.000	26327.229	13603561.88	191.9995	A	1.8
7	☐	50000.000	51506.773	27011798.29	375.5965	A	0.9
8	☐	250000.00	249524.23	123905051.8	1,819.443	A	1.1

$$y = 0.0073 * x + 0.0342$$

$$R = 1.0000$$

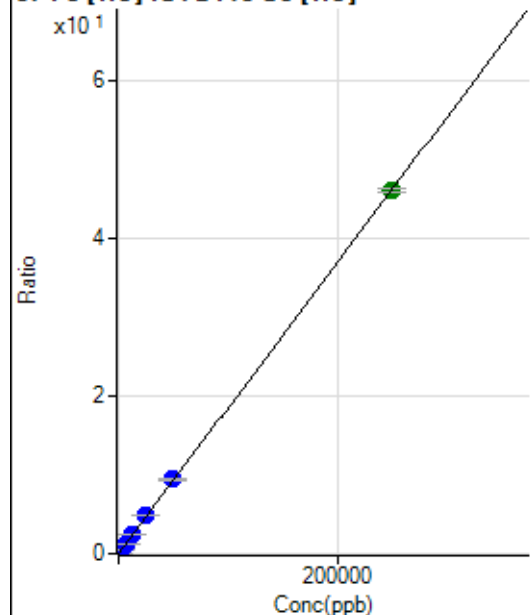
$$DL = 0.788$$

$$BEC = 4.691$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	87.04	0.0013	P	27.3
2	☐	50.000	43.918	640.77	0.0094	P	11.9
3	☐	2500.000	2595.196	33316.95	0.4803	P	0.9
4	☐	6250.000	6408.080	81598.82	1.1841	P	1.2
5	☐	12500.000	12972.180	165322.85	2.3957	P	0.3
6	☐	25000.000	26154.117	342158.67	4.8289	P	0.8
7	☐	50000.000	51128.604	678804.76	9.4387	P	1.4
8	☐	250000.00	249630.35	3137885.98	46.0785	A	0.9

$$y = 1.8458\text{E-}004 * x + 0.0013$$

$$R = 1.0000$$

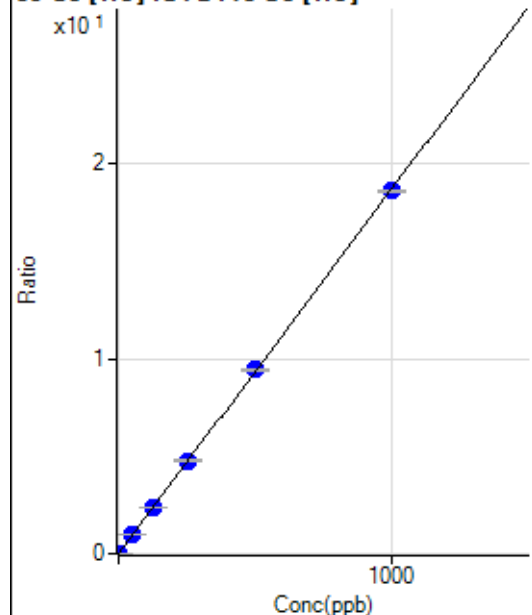
$$DL = 5.695$$

$$BEC = 6.956$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	43.33	0.0006	P	7.7
2	☐	1.000	0.972	1283.41	0.0188	P	4.8
3	☐	50.000	51.025	66153.81	0.9537	P	1.1
4	☐	125.000	126.436	162777.43	2.3621	P	0.9
5	☐	250.000	255.408	329198.96	4.7709	P	0.8
6	☐	500.000	505.388	668854.89	9.4399	P	1.3
7	☐	1000.000	995.723	1337513.59	18.5980	P	0.5
8	☐			1744.57	0.0256	P	4.1

$$y = 0.0187 * x + 6.3768\text{E-}004$$

$$R = 1.0000$$

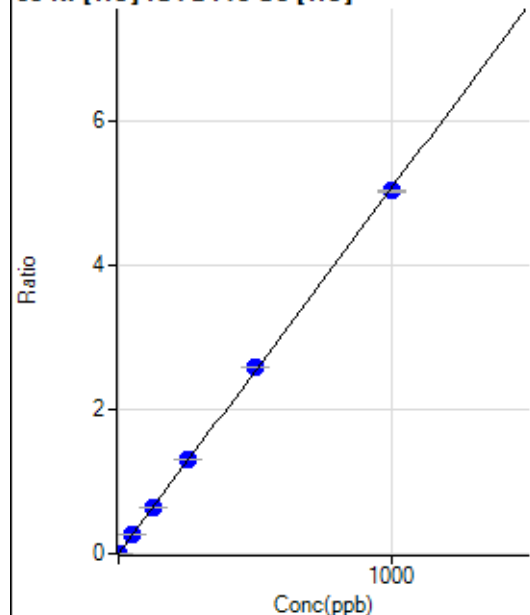
$$DL = 0.007914$$

$$BEC = 0.03414$$

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	144.45	0.0021	P	23.1
2	☐	1.000	0.946	472.24	0.0069	P	11.8
3	☐	50.000	51.671	18277.41	0.2635	P	0.7
4	☐	125.000	126.677	44302.11	0.6429	P	0.5
5	☐	250.000	256.827	89786.61	1.3012	P	1.4
6	☐	500.000	510.220	183021.19	2.5829	P	0.4
7	☐	1000.000	992.890	361335.84	5.0243	P	0.6
8	☐			1030.05	0.0151	P	10.9

$$y = 0.0051 * x + 0.0021$$

$$R = 0.9999$$

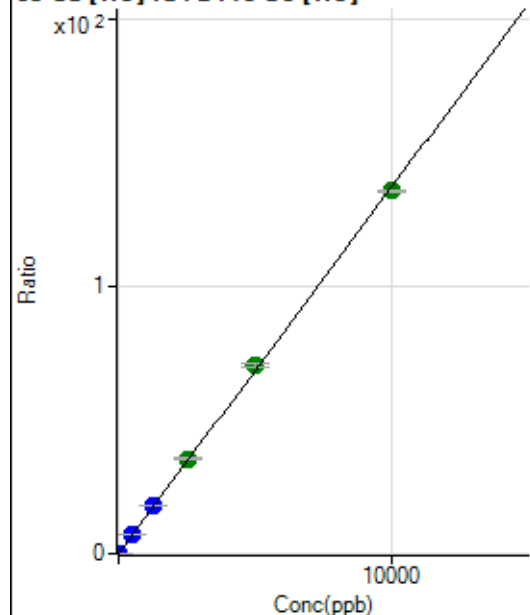
$$DL = 0.2916$$

$$BEC = 0.4212$$

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	537.79	0.0079	P	12.0
2	☐	2.000	2.196	2595.82	0.0380	P	5.3
3	☐	500.000	519.852	495233.96	7.1392	P	0.4
4	☐	1250.000	1288.567	1218648.92	17.6844	P	0.4
5	☐	2500.000	2594.034	2455970.69	35.5927	A	0.8
6	☐	5000.000	5138.350	4994907.25	70.4954	A	1.4
7	☐	10000.000	9901.503	9768954.30	135.8360	A	0.9
8	☐			3716.08	0.0546	P	6.3

$$y = 0.0137 * x + 0.0079$$

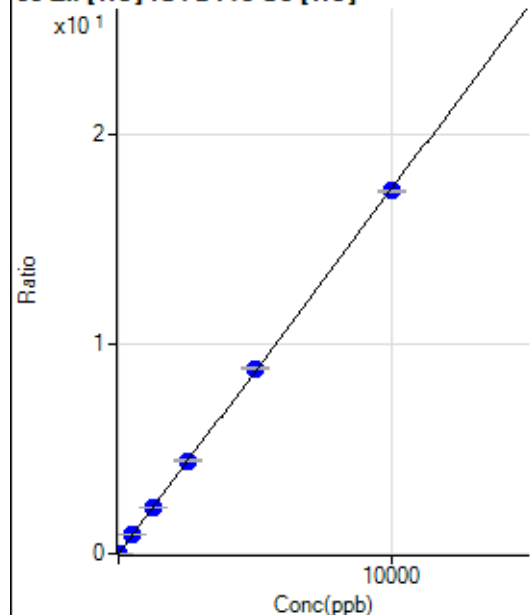
$$R = 0.9998$$

$$DL = 0.207$$

$$BEC = 0.5768$$

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	94.44	0.0014	P	22.7
2	☐	2.000	1.872	316.68	0.0046	P	11.4
3	☐	500.000	515.487	62264.84	0.8975	P	2.3
4	☐	1250.000	1264.873	151621.18	2.2003	P	0.4
5	☐	2500.000	2547.872	305715.71	4.4306	P	0.9
6	☐	5000.000	5072.887	624953.26	8.8202	P	1.1
7	☐	10000.000	9948.955	1243937.05	17.2968	P	0.8
8	☐			1021.16	0.0150	P	2.3

$$y = 0.0017 * x + 0.0014$$

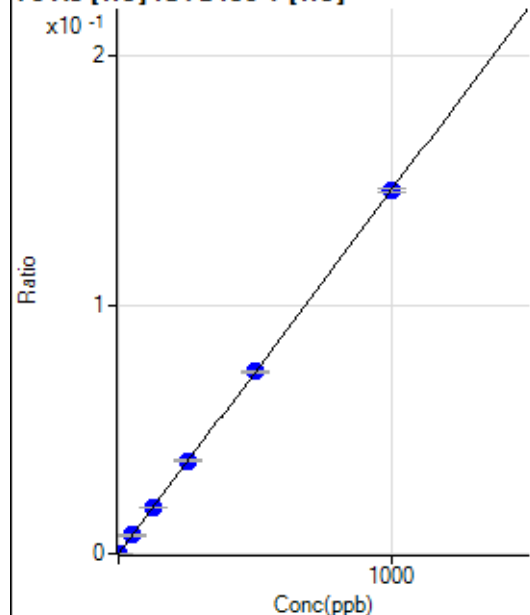
$$R = 0.9999$$

$$DL = 0.5432$$

$$BEC = 0.7985$$

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	6.00	0.0000	P	49.1
2	☐	1.000	0.875	83.68	0.0001	P	8.9
3	☐	50.000	50.413	4533.86	0.0074	P	1.1
4	☐	125.000	125.476	11112.15	0.0183	P	1.1
5	☐	250.000	254.891	22660.38	0.0372	P	1.4
6	☐	500.000	501.499	46234.10	0.0733	P	0.7
7	☐	1000.000	997.947	92513.76	0.1458	P	1.2
8	☐			38.33	0.0001	P	5.8

$$y = 1.4604E-004 * x + 9.8988E-006$$

$$R = 1.0000$$

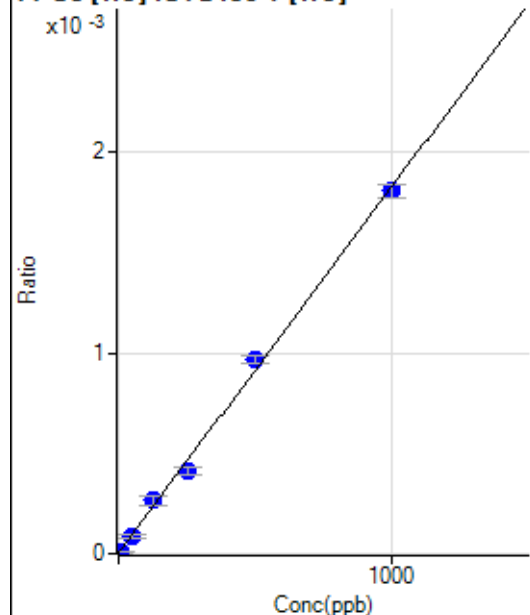
$$DL = 0.09977$$

$$BEC = 0.06778$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2.22	0.0000	P	173.
2	☐	5.000	4.024	6.67	0.0000	P	50.2
3	☐	50.000	45.550	53.34	0.0001	P	20.4
4	☐	125.000	144.076	161.12	0.0003	P	17.1
5	☐	250.000	226.601	253.34	0.0004	P	9.2
6	☐	500.000	527.671	608.91	0.0010	P	4.5
7	☐	1000.000	989.857	1146.73	0.0018	P	3.7
8	☐			5.56	0.0000	P	91.7

$$y = 1.8211\text{E-}006 * x + 3.6479\text{E-}006$$

$$R = 0.9989$$

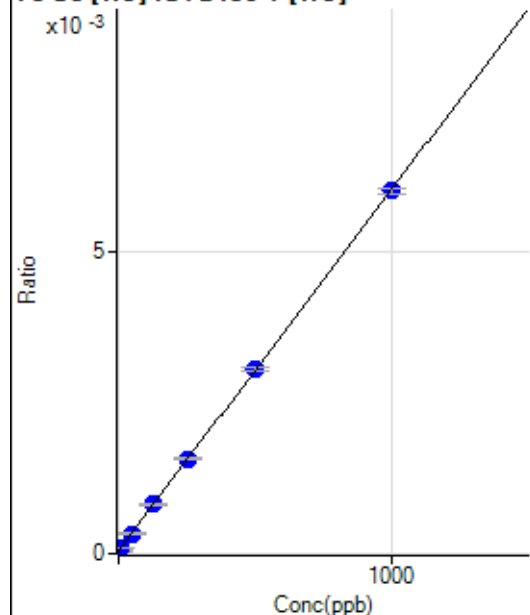
$$DL = 10.41$$

$$BEC = 2.003$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	28.67	0.0000	P	27.6
2	☐	5.000	6.442	52.34	0.0001	P	7.4
3	☐	50.000	46.741	201.35	0.0003	P	10.7
4	☐	125.000	129.398	499.06	0.0008	P	3.9
5	☐	250.000	255.536	961.13	0.0016	P	1.9
6	☐	500.000	503.809	1936.67	0.0031	P	2.6
7	☐	1000.000	996.318	3821.58	0.0060	P	1.5
8	☐			28.00	0.0000	P	18.2

$$y = 5.9955\text{E-}006 * x + 4.7457\text{E-}005$$

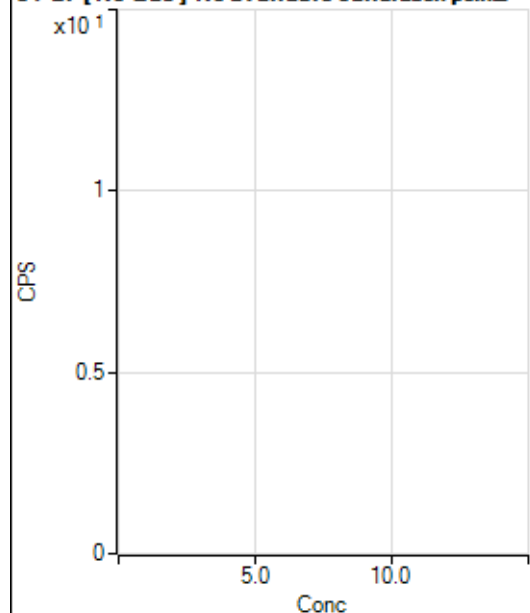
$$R = 1.0000$$

$$DL = 6.549$$

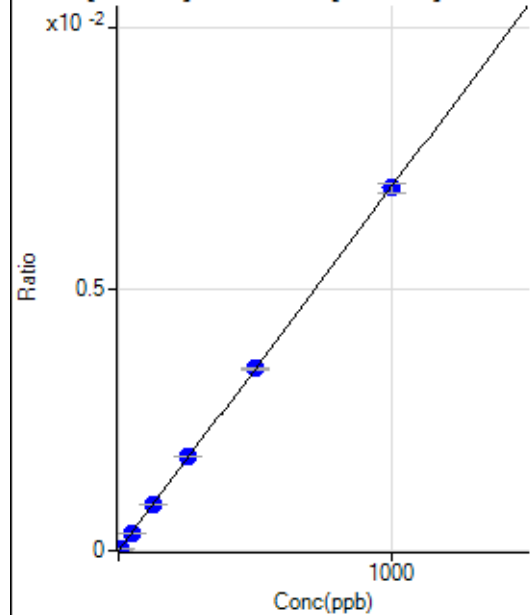
$$BEC = 7.915$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3554.12		P	2.5
2	☐			3614.21		P	6.0
3	☐			3423.96		P	7.7
4	☐			3550.79		P	2.4
5	☐			3534.13		P	6.1
6	☐			3577.51		P	3.7
7	☐			3600.86		P	6.9
8	☐			3971.32		P	6.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16.70	0.0000	P	547.
2	☐	5.000	5.341	269.08	0.0000	P	9.5
3	☐	50.000	48.556	2332.63	0.0003	P	2.8
4	☐	125.000	126.063	6131.68	0.0009	P	2.5
5	☐	250.000	257.985	12446.19	0.0018	P	1.2
6	☐	500.000	500.969	24719.00	0.0035	P	1.0
7	☐	1000.000	997.457	50294.02	0.0069	P	2.5
8	☐			41.47	0.0000	P	163.

$$y = 6.9419\text{E-}006 * x + 2.1810\text{E-}006$$

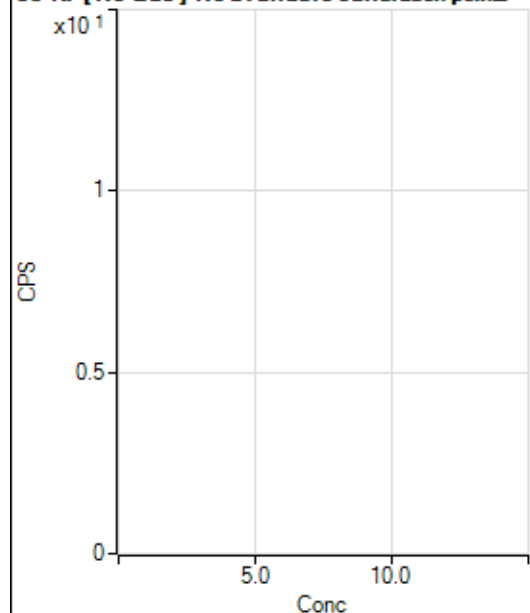
$$R = 1.0000$$

$$DL = 5.157$$

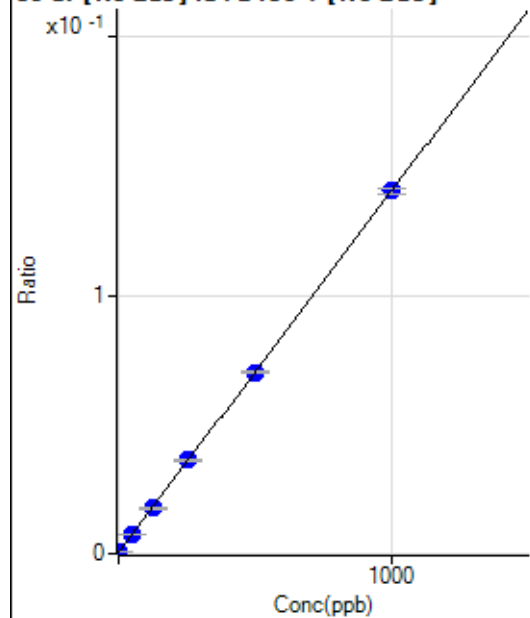
$$BEC = 0.3142$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1824.58		P	5.2
2	☐			1795.69		P	1.6
3	☐			1841.25		P	0.9
4	☐			1781.25		P	1.7
5	☐			1811.25		P	2.4
6	☐			1800.13		P	2.1
7	☐			1774.58		P	3.3
8	☐			1784.58		P	2.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2864.26	0.0004	P	4.1
2	☐	1.000	1.031	3933.99	0.0006	P	3.8
3	☐	50.000	50.017	51038.56	0.0074	P	1.1
4	☐	125.000	123.003	123201.73	0.0176	P	3.3
5	☐	250.000	256.140	251574.06	0.0362	P	1.4
6	☐	500.000	497.236	496958.84	0.0700	P	1.1
7	☐	1000.000	1000.096	1018580.34	0.1403	P	1.7
8	☐			8027.53	0.0011	P	1.7

$$y = 1.3983E-004 * x + 4.2927E-004$$

$$R = 1.0000$$

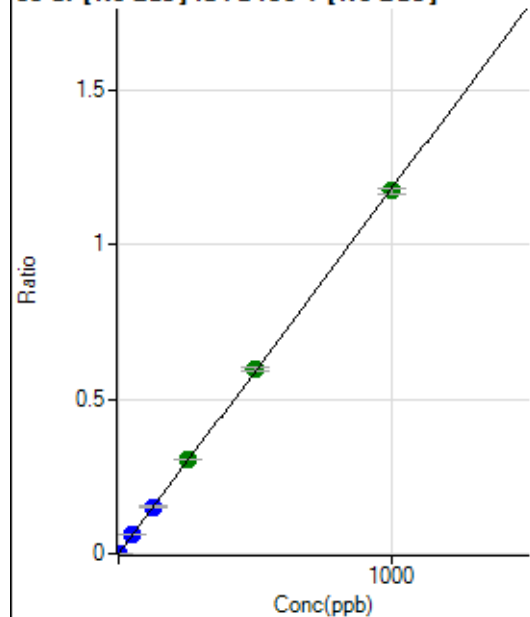
$$DL = 0.3802$$

$$BEC = 3.07$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	238.90	0.0000	P	21.2
2	☐	1.000	0.934	7796.83	0.0011	P	3.4
3	☐	50.000	51.354	416405.08	0.0606	P	0.4
4	☐	125.000	127.682	1052116.86	0.1505	P	2.9
5	☐	250.000	257.607	2107791.15	0.3037	A	0.8
6	☐	500.000	506.725	4243109.60	0.5973	A	1.6
7	☐	1000.000	994.333	8510104.97	1.1720	A	1.5
8	☐			45354.60	0.0065	P	1.7

$$y = 0.0012 * x + 3.5962E-005$$

$$R = 0.9999$$

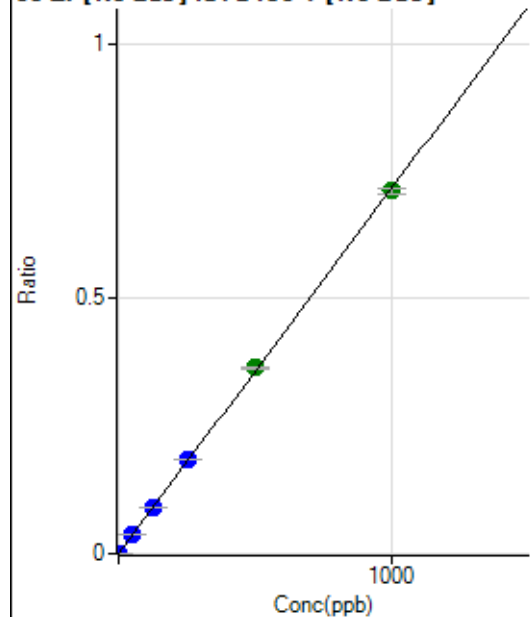
$$DL = 0.01938$$

$$BEC = 0.03051$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	294.45	0.0000	P	7.0
2	☐	1.000	0.911	4770.40	0.0007	P	3.6
3	☐	50.000	50.712	249778.02	0.0363	P	0.7
4	☐	125.000	126.186	631333.95	0.0903	P	3.1
5	☐	250.000	257.810	1280722.78	0.1845	P	0.1
6	☐	500.000	508.253	2583423.43	0.3637	A	1.6
7	☐	1000.000	993.737	5163310.44	0.7111	A	1.4
8	☐			1519.57	0.0002	P	2.9

$$y = 7.1551E-004 * x + 4.4150E-005$$

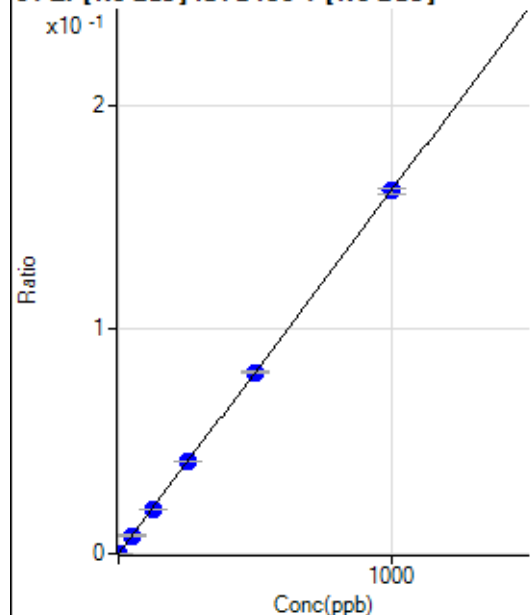
$$R = 0.9999$$

$$DL = 0.013$$

$$BEC = 0.0617$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	63.89	0.0000	P	43.0
2	☐	1.000	0.922	1088.96	0.0002	P	7.8
3	☐	50.000	49.907	55566.93	0.0081	P	2.6
4	☐	125.000	122.560	138663.83	0.0198	P	1.3
5	☐	250.000	255.170	286571.60	0.0413	P	0.4
6	☐	500.000	499.642	574151.68	0.0808	P	1.4
7	☐	1000.000	999.196	1173614.20	0.1616	P	1.8
8	☐			311.12	0.0000	P	14.2

$$y = 1.6176\text{E-}004 * x + 9.6661\text{E-}006$$

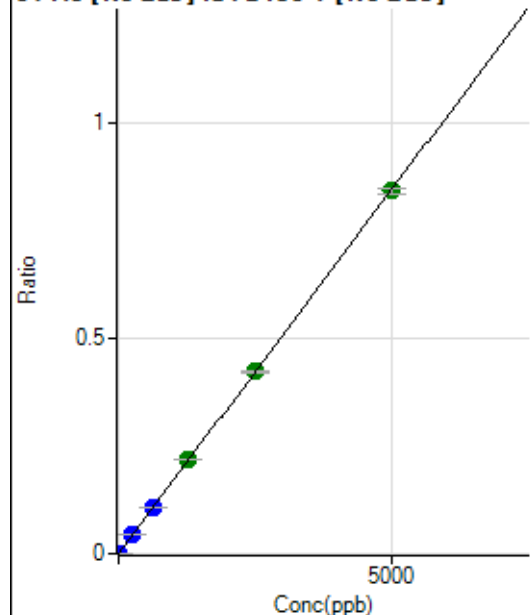
$$R = 1.0000$$

$$DL = 0.07711$$

$$BEC = 0.05976$$

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	100.00	0.0000	P	5.6
2	☐	5.000	4.651	5490.13	0.0008	P	5.1
3	☐	250.000	258.866	300877.57	0.0438	P	0.5
4	☐	625.000	632.393	747043.38	0.1069	P	2.7
5	☐	1250.000	1291.107	1514596.45	0.2182	A	0.5
6	☐	2500.000	2506.678	3009241.50	0.4236	A	0.9
7	☐	5000.000	4985.017	6117051.35	0.8425	A	1.9
8	☐			1472.34	0.0002	P	3.4

$$y = 1.6899\text{E-}004 * x + 1.4961\text{E-}005$$

$$R = 1.0000$$

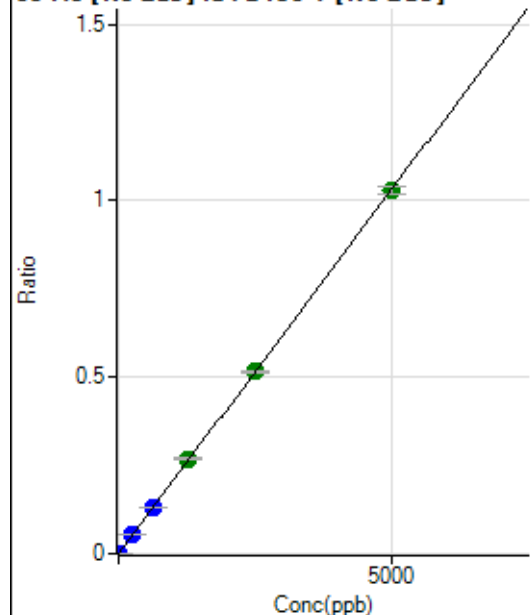
$$DL = 0.01491$$

$$BEC = 0.08853$$

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	25.00	0.0000	P	57.3
2	☐	5.000	4.818	6835.20	0.0010	P	6.6
3	☐	250.000	255.139	361719.35	0.0526	P	0.6
4	☐	625.000	633.421	912743.11	0.1306	P	3.2
5	☐	1250.000	1300.484	1861344.29	0.2681	A	1.4
6	☐	2500.000	2505.573	3669624.00	0.5166	A	1.1
7	☐	5000.000	4983.283	7460853.64	1.0275	A	2.1
8	☐			1422.34	0.0002	P	6.5

$$y = 2.0619E-004 * x + 3.7236E-006$$

$$R = 0.9999$$

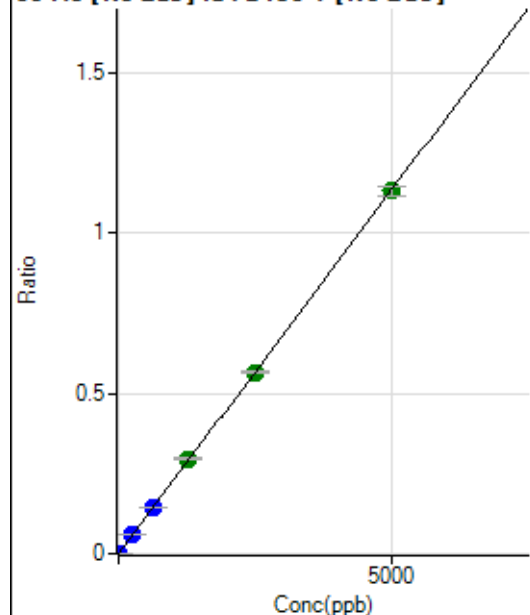
$$DL = 0.03103$$

$$BEC = 0.01806$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	41.5
2	☐	5.000	4.986	7788.51	0.0011	P	0.5
3	☐	250.000	257.111	401216.64	0.0584	P	0.8
4	☐	625.000	635.328	1007713.15	0.1442	P	3.6
5	☐	1250.000	1306.743	2058553.91	0.2966	A	0.8
6	☐	2500.000	2490.686	4015306.25	0.5653	A	0.9
7	☐	5000.000	4988.825	8221609.99	1.1322	A	2.6
8	☐			2319.71	0.0003	P	1.7

$$y = 2.2695E-004 * x + 4.1109E-006$$

$$R = 0.9999$$

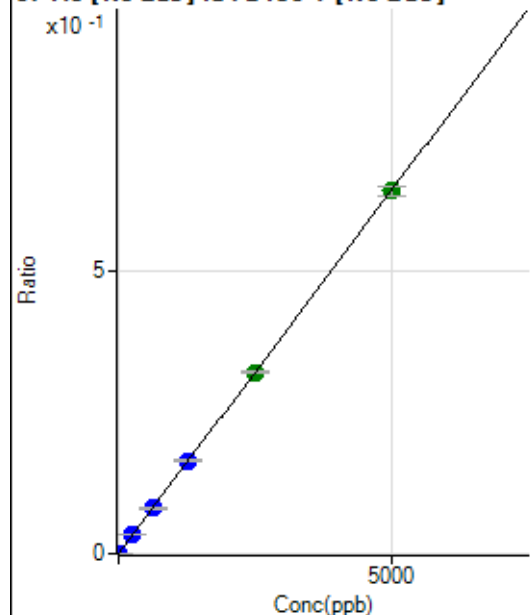
$$DL = 0.02253$$

$$BEC = 0.01811$$

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	5.55	0.0000	P	86.8
2	☐	5.000	4.684	4120.18	0.0006	P	4.4
3	☐	250.000	255.419	225020.32	0.0327	P	0.6
4	☐	625.000	623.989	558755.14	0.0800	P	3.6
5	☐	1250.000	1281.387	1139668.74	0.1642	P	0.6
6	☐	2500.000	2494.301	2270306.08	0.3196	A	0.8
7	☐	5000.000	4994.859	4646970.85	0.6400	A	2.6
8	☐			844.49	0.0001	P	10.1

$$y = 1.2813\text{E-}004 * x + 8.2472\text{E-}007$$

$$R = 1.0000$$

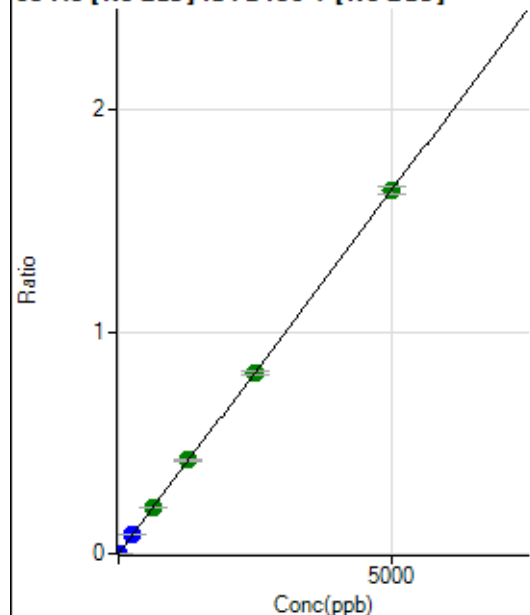
$$DL = 0.01676$$

$$BEC = 0.006437$$

Weight: <None>

Min Conc: 0

98 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	16.1
2	☐	5.000	4.917	11076.96	0.0016	P	5.7
3	☐	250.000	258.833	582732.52	0.0848	P	0.5
4	☐	625.000	631.170	1444622.83	0.2067	A	1.7
5	☐	1250.000	1284.565	2919537.33	0.4206	A	1.7
6	☐	2500.000	2487.767	5785950.69	0.8146	A	1.3
7	☐	5000.000	4996.262	11879748.18	1.6359	A	2.1
8	☐			2211.34	0.0003	P	2.0

$$y = 3.2742\text{E-}004 * x + 6.2123\text{E-}006$$

$$R = 1.0000$$

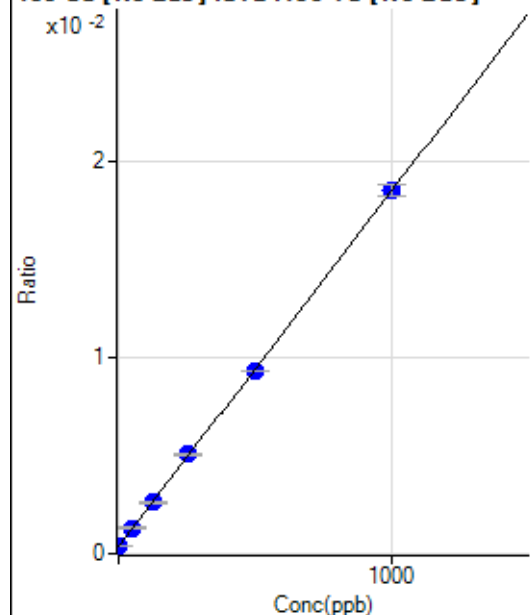
$$DL = 0.009173$$

$$BEC = 0.01897$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1383.45	0.0004	P	2.2
2	☐	1.000	1.502	1533.46	0.0004	P	7.6
3	☐	50.000	52.314	5206.69	0.0013	P	4.3
4	☐	125.000	124.516	10473.67	0.0026	P	1.9
5	☐	250.000	259.708	20298.80	0.0051	P	2.2
6	☐	500.000	493.585	38108.90	0.0093	P	0.5
7	☐	1000.000	1000.725	76945.16	0.0185	P	3.1
8	☐			1689.04	0.0004	P	7.1

$$y = 1.8097\text{E-}005 * x + 3.6041\text{E-}004$$

$$R = 0.9999$$

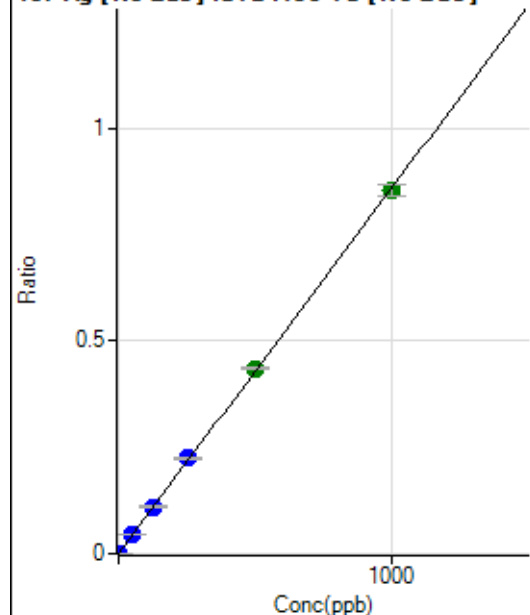
$$DL = 1.303$$

$$BEC = 19.92$$

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	69.45	0.0000	P	45.4
2	☐	1.000	0.952	3306.05	0.0008	P	4.7
3	☐	50.000	51.237	175448.80	0.0440	P	1.1
4	☐	125.000	127.894	440330.24	0.1099	P	3.2
5	☐	250.000	262.401	904526.65	0.2255	P	2.0
6	☐	500.000	506.425	1784667.79	0.4352	A	1.4
7	☐	1000.000	993.264	3555500.90	0.8535	A	3.3
8	☐			1116.74	0.0003	P	15.9

$$y = 8.5925\text{E-}004 * x + 1.7871\text{E-}005$$

$$R = 0.9999$$

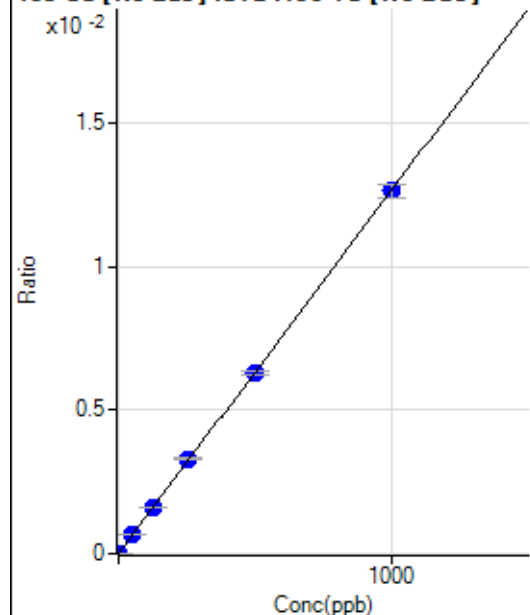
$$DL = 0.02836$$

$$BEC = 0.0208$$

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	20.83	0.0000	P	64.7
2	☐	1.000	0.991	70.83	0.0000	P	24.9
3	☐	50.000	51.865	2637.78	0.0007	P	1.9
4	☐	125.000	125.836	6407.14	0.0016	P	2.0
5	☐	250.000	260.400	13253.71	0.0033	P	1.9
6	☐	500.000	497.487	25858.98	0.0063	P	1.8
7	☐	1000.000	998.459	52698.83	0.0127	P	3.6
8	☐			70.83	0.0000	P	25.7

$$y = 1.2665\text{E-}005 * x + 5.3320\text{E-}006$$

$$R = 0.9999$$

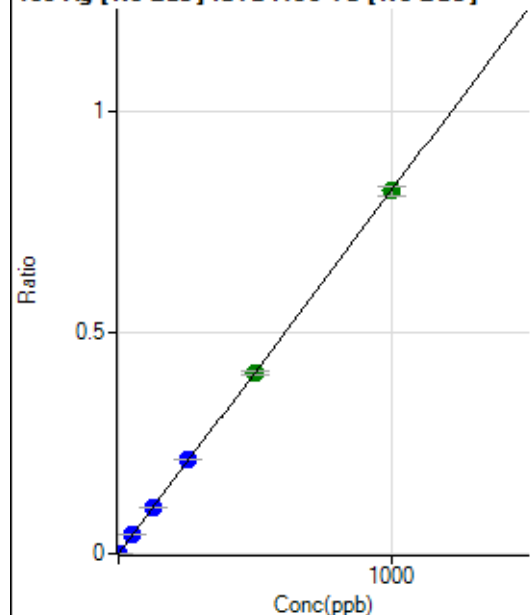
$$DL = 0.8172$$

$$BEC = 0.421$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	30.56	0.0000	P	59.6
2	☐	1.000	0.954	3125.43	0.0008	P	1.9
3	☐	50.000	51.374	167853.02	0.0421	P	0.3
4	☐	125.000	127.471	418841.34	0.1045	P	2.5
5	☐	250.000	258.648	850965.14	0.2121	P	1.1
6	☐	500.000	497.607	1673317.41	0.4081	A	1.7
7	☐	1000.000	998.657	3411454.29	0.8189	A	2.5
8	☐			883.38	0.0002	P	21.1

$$y = 8.2003\text{E-}004 * x + 8.0729\text{E-}006$$

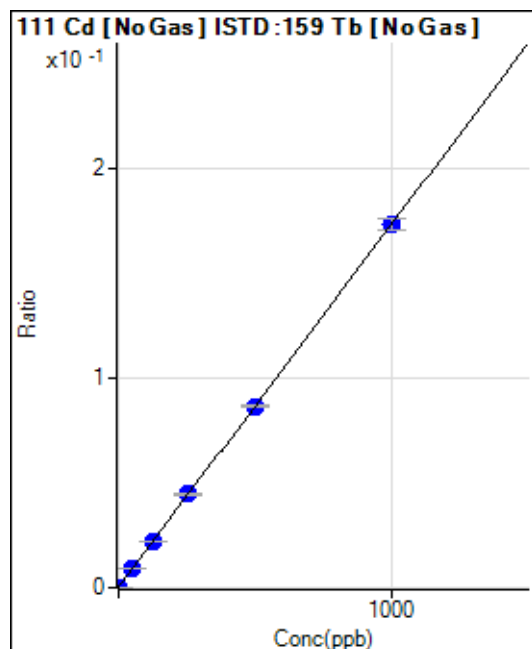
$$R = 1.0000$$

$$DL = 0.01759$$

$$BEC = 0.009845$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	962.16	0.0003	P	1.3
2	☐	1.000	1.145	1775.26	0.0004	P	2.1
3	☐	50.000	51.257	36344.34	0.0091	P	0.9
4	☐	125.000	126.254	88570.88	0.0221	P	2.6
5	☐	250.000	257.827	180050.38	0.0449	P	1.9
6	☐	500.000	498.394	354809.99	0.0865	P	1.6
7	☐	1000.000	998.626	721158.10	0.1731	P	3.1
8	☐			1353.58	0.0003	P	5.4

$$y = 1.7311\text{E-}004 * x + 2.5071\text{E-}004$$

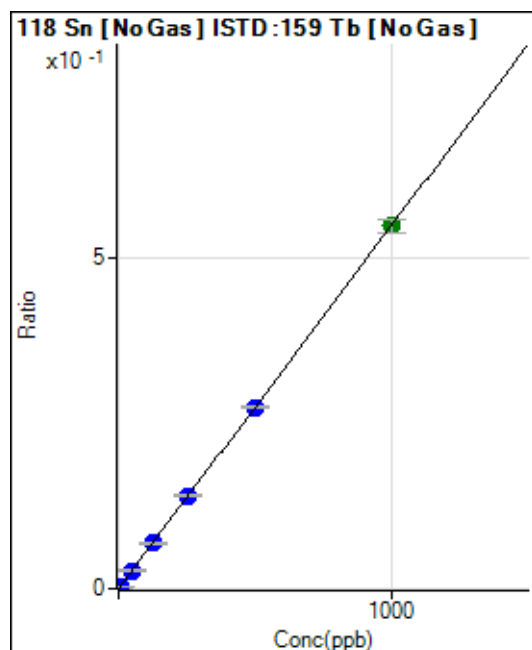
$$R = 1.0000$$

$$DL = 0.05547$$

$$BEC = 1.448$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	683.37	0.0002	P	25.5
2	☐	5.000	4.722	10971.37	0.0028	P	1.4
3	☐	50.000	49.823	109802.22	0.0276	P	1.1
4	☐	125.000	124.340	274525.56	0.0685	P	2.7
5	☐	250.000	255.855	564770.76	0.1408	P	2.8
6	☐	500.000	499.025	1125407.72	0.2745	P	1.5
7	☐	1000.000	999.116	2288200.48	0.5493	A	3.7
8	☐			853.10	0.0002	P	29.7

$$y = 5.4963\text{E-}004 * x + 1.7934\text{E-}004$$

$$R = 1.0000$$

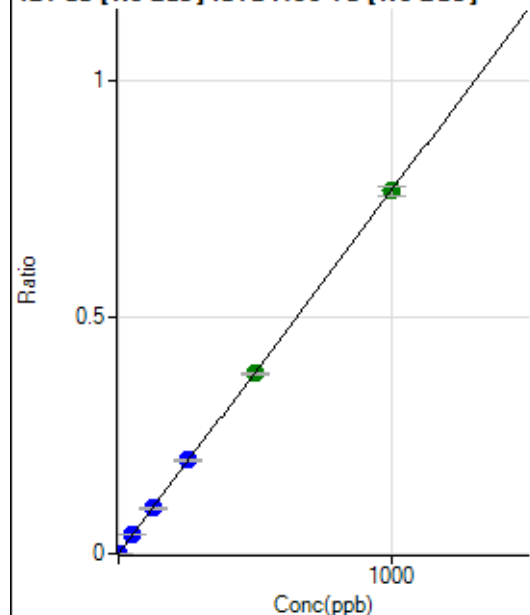
$$DL = 0.2497$$

$$BEC = 0.3263$$

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	41.67	0.0000	P	73.4
2	☐	2.000	1.827	5595.74	0.0014	P	3.2
3	☐	50.000	50.609	154993.99	0.0389	P	0.5
4	☐	125.000	125.943	387826.06	0.0968	P	3.5
5	☐	250.000	258.664	797588.67	0.1988	P	1.6
6	☐	500.000	496.758	1565638.49	0.3818	A	1.2
7	☐	1000.000	999.307	3199573.68	0.7681	A	2.6
8	☐			1622.37	0.0004	P	6.0

$$y = 7.6859\text{E-}004 * x + 1.0849\text{E-}005$$

$$R = 1.0000$$

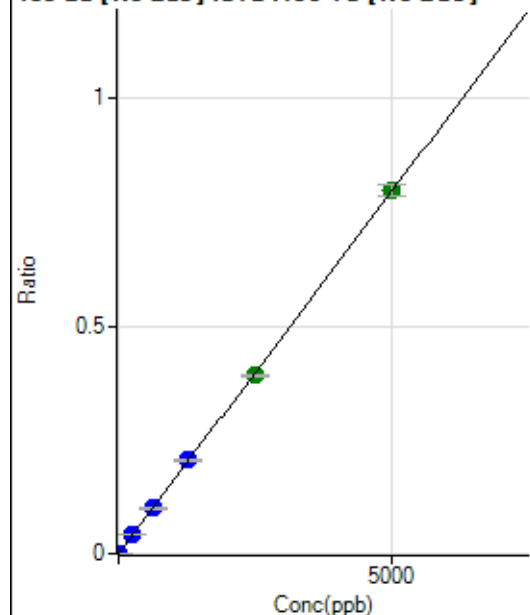
$$DL = 0.03109$$

$$BEC = 0.01412$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	44.44	0.0000	P	46.2
2	☐	10.000	9.570	6065.40	0.0015	P	5.8
3	☐	250.000	254.648	161377.94	0.0405	P	1.3
4	☐	625.000	626.208	399054.10	0.0996	P	3.2
5	☐	1250.000	1288.120	821910.52	0.2049	P	1.7
6	☐	2500.000	2458.764	1603609.36	0.3911	A	1.7
7	☐	5000.000	5010.706	3319573.75	0.7969	A	3.2
8	☐			683.37	0.0002	P	6.1

$$y = 1.5904\text{E-}004 * x + 1.1683\text{E-}005$$

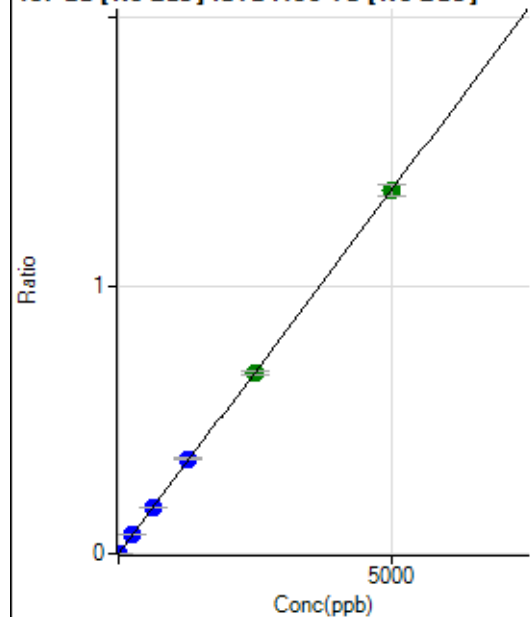
$$R = 0.9999$$

$$DL = 0.1019$$

$$BEC = 0.07346$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	38.89	0.0000	P	40.2
2	☐	10.000	9.419	10142.97	0.0026	P	2.2
3	☐	250.000	254.900	275507.24	0.0692	P	0.3
4	☐	625.000	630.604	685447.43	0.1711	P	2.7
5	☐	1250.000	1299.302	1413968.66	0.3525	P	2.2
6	☐	2500.000	2492.177	2772367.57	0.6761	A	2.4
7	☐	5000.000	4990.642	5639953.99	1.3539	A	3.0
8	☐			1166.75	0.0003	P	1.5

$$y = 2.7129E-004 * x + 1.0030E-005$$

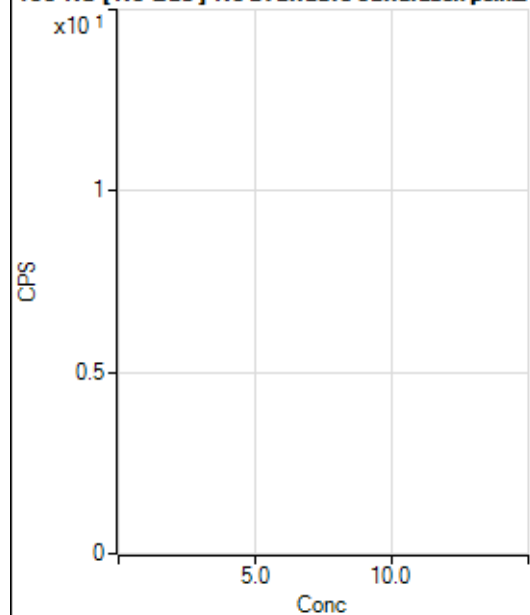
$$R = 0.9999$$

$$DL = 0.04458$$

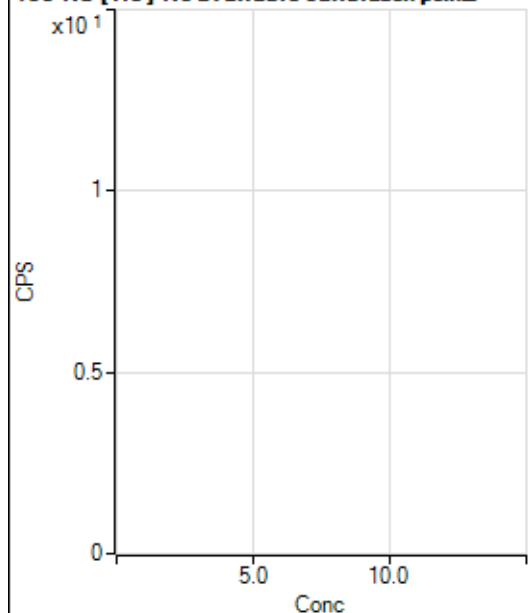
$$BEC = 0.03697$$

Weight: <None>

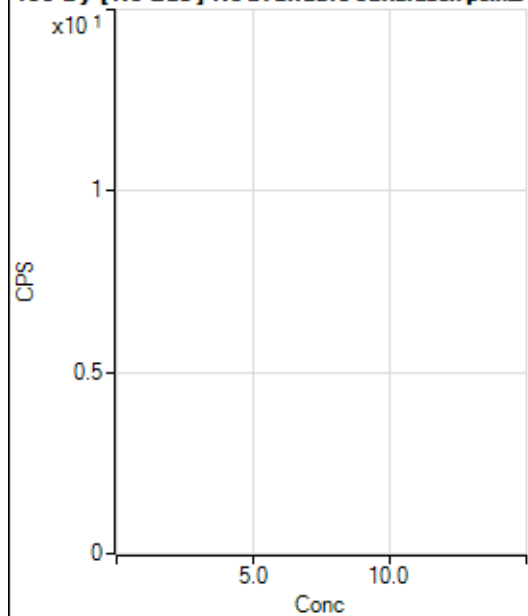
Min Conc: 0

150 Nd [No Gas] No available calibration points

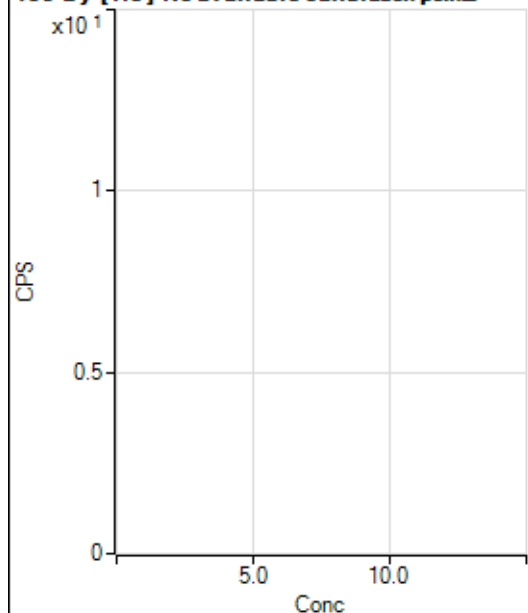
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	173.
2	☐			11.11		P	124.
3	☐			6.67		P	173.
4	☐			20.00		P	33.4
5	☐			40.00		P	16.7
6	☐			97.78		P	17.2
7	☐			140.01		P	29.7
8	☐			26.67		P	0.0

150 Nd [He] No available calibration points

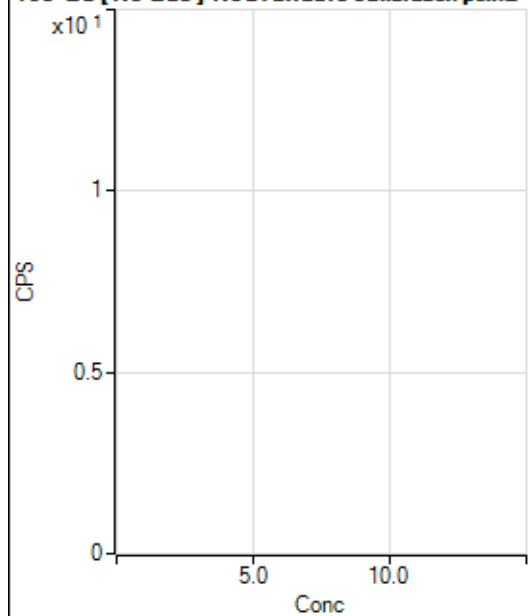
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			1.11		P	173.
4	☐			0.00		P	
5	☐			4.44		P	114.
6	☐			5.56		P	91.6
7	☐			11.11		P	45.8
8	☐			7.78		P	49.5

156 Dy [No Gas] No available calibration points

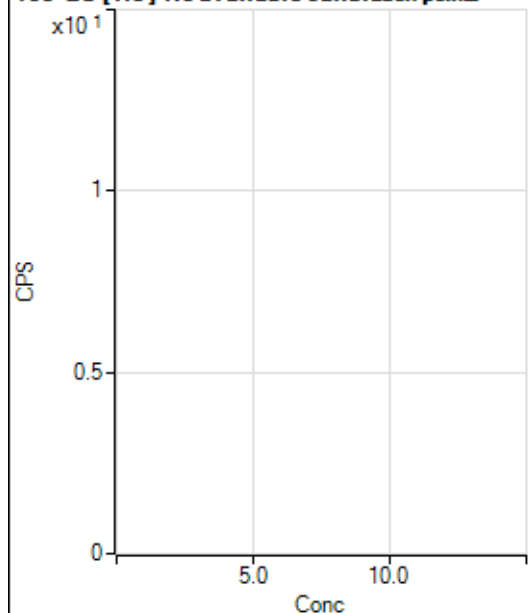
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	43.3
2	☐			19.44		P	99.0
3	☐			19.44		P	65.5
4	☐			38.89		P	12.4
5	☐			41.67		P	52.9
6	☐			69.45		P	30.2
7	☐			105.56		P	16.4
8	☐			713.93		P	6.0

156 Dy [He] No available calibration points

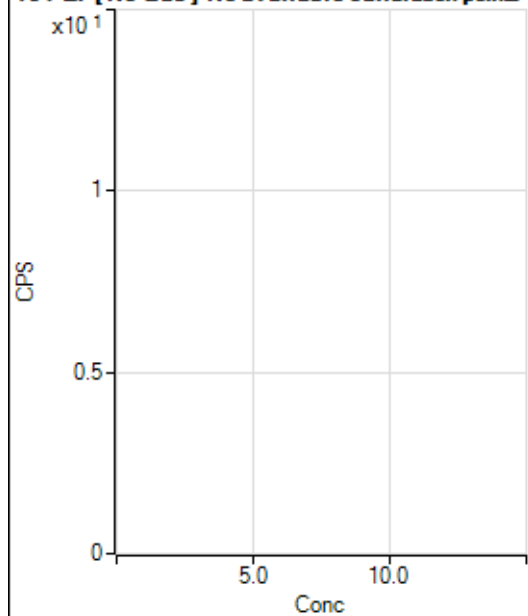
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	94.4
2	☐			5.55		P	69.3
3	☐			8.89		P	78.1
4	☐			8.89		P	57.3
5	☐			5.56		P	34.7
6	☐			6.67		P	100.
7	☐			24.45		P	28.4
8	☐			316.67		P	10.0

160 Gd [No Gas] Noavailable calibration poin_

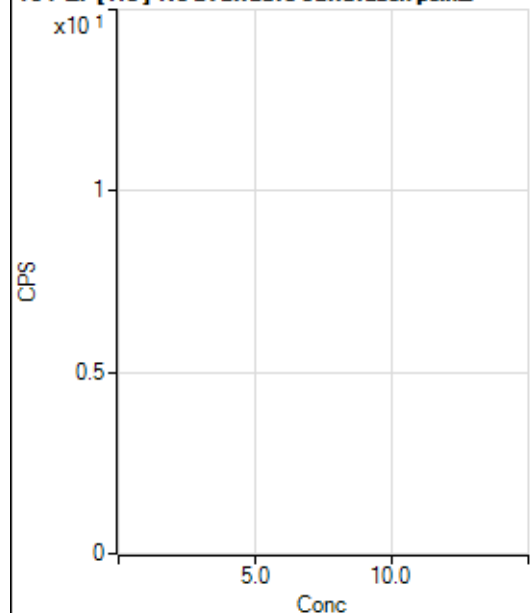
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.45		P	24.7
2	☐			44.44		P	43.3
3	☐			33.33		P	25.0
4	☐			33.33		P	25.0
5	☐			33.33		P	43.3
6	☐			38.89		P	49.5
7	☐			105.56		P	37.3
8	☐			675.04		P	16.1

160 Gd [He] No available calibration points

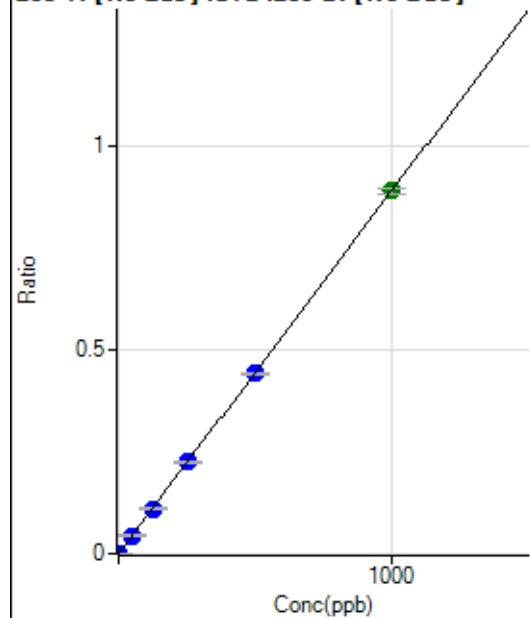
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	24.7
2	☐			6.67		P	100.
3	☐			5.56		P	34.7
4	☐			12.22		P	41.7
5	☐			11.11		P	62.5
6	☐			17.78		P	39.0
7	☐			32.22		P	41.8
8	☐			341.12		P	17.3

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	66.2
2	☐			55.56		P	31.2
3	☐			11.11		P	43.3
4	☐			25.00		P	33.3
5	☐			30.56		P	56.8
6	☐			25.00		P	33.3
7	☐			50.00		P	16.7
8	☐			80.56		P	6.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			7.78		P	24.7
3	☐			10.00		P	33.3
4	☐			5.55		P	69.3
5	☐			11.11		P	34.6
6	☐			14.44		P	13.4
7	☐			18.89		P	44.4
8	☐			37.78		P	5.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	91.67	0.0000	P	37.9
2	☐	1.000	0.959	1891.86	0.0009	P	9.4
3	☐	50.000	50.053	92464.36	0.0445	P	1.9
4	☐	125.000	123.913	234994.66	0.1101	P	3.0
5	☐	250.000	252.025	478236.99	0.2238	P	0.8
6	☐	500.000	497.652	957626.04	0.4419	P	1.1
7	☐	1000.000	1000.801	1966265.32	0.8887	A	1.4
8	☐			688.93	0.0003	P	21.6

$$y = 8.8790E-004 * x + 4.4866E-005$$

$$R = 1.0000$$

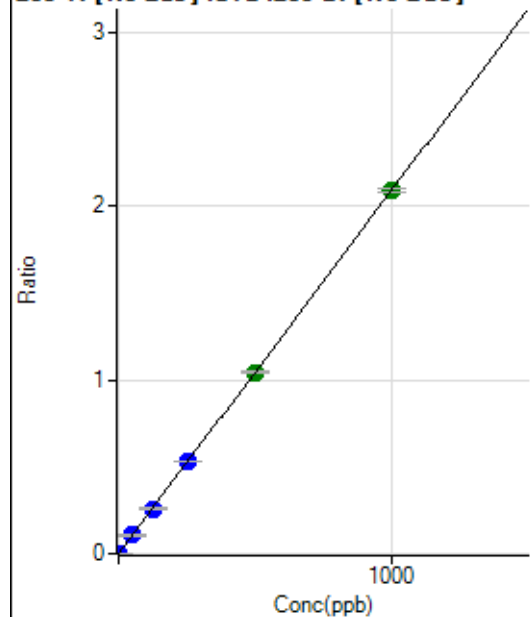
$$DL = 0.05753$$

$$BEC = 0.05053$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	244.46	0.0001	P	24.7
2	☐	1.000	0.925	4325.83	0.0021	P	4.4
3	☐	50.000	50.532	219738.99	0.1057	P	1.5
4	☐	125.000	123.474	551119.31	0.2581	P	3.1
5	☐	250.000	254.700	1137582.06	0.5324	P	0.1
6	☐	500.000	499.882	2264129.04	1.0447	A	1.3
7	☐	1000.000	999.048	4619559.70	2.0878	A	1.0
8	☐			1475.12	0.0007	P	9.8

$$y = 0.0021 * x + 1.2115E-004$$

$$R = 1.0000$$

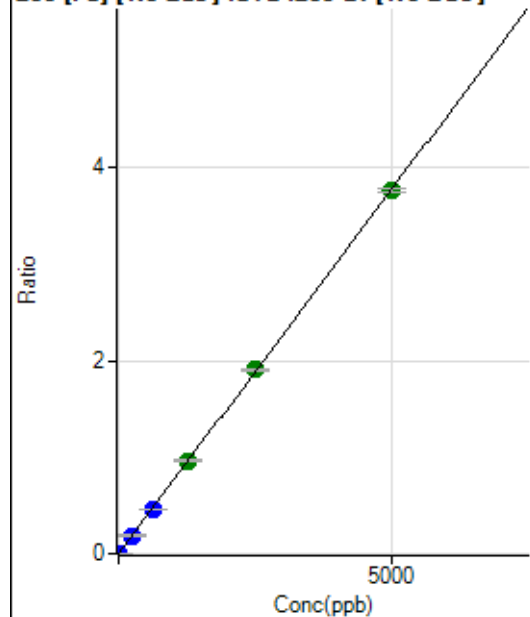
$$DL = 0.04297$$

$$BEC = 0.05797$$

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	240.75	0.0001	P	5.3
2	☐	1.000	0.915	1705.70	0.0008	P	3.7
3	☐	250.000	248.877	390677.95	0.1880	P	2.3
4	☐	625.000	606.785	977969.69	0.4581	P	3.7
5	☐	1250.000	1272.128	2051949.56	0.9603	A	1.4
6	☐	2500.000	2528.809	4136613.06	1.9089	A	1.2
7	☐	5000.000	4982.396	8322233.58	3.7608	A	1.0
8	☐			7572.71	0.0038	P	1.1

$$y = 7.5480E-004 * x + 1.1849E-004$$

$$R = 1.0000$$

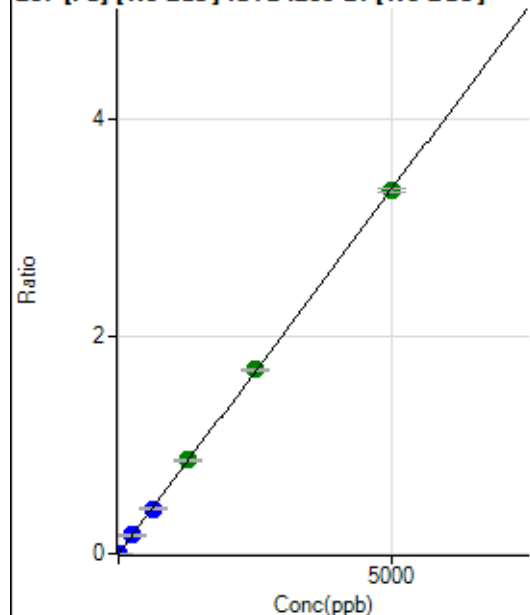
$$DL = 0.02498$$

$$BEC = 0.157$$

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	222.23	0.0001	P	18.9
2	☐	1.000	0.837	1413.07	0.0007	P	8.2
3	☐	250.000	251.717	350433.77	0.1686	P	1.6
4	☐	625.000	615.450	879660.79	0.4121	P	3.6
5	☐	1250.000	1284.593	1837462.54	0.8600	A	2.7
6	☐	2500.000	2525.080	3663055.29	1.6903	A	0.9
7	☐	5000.000	4979.920	7376438.88	3.3335	A	1.2
8	☐			7281.80	0.0036	P	4.4

$$y = 6.6936E-004 * x + 1.0926E-004$$

$$R = 0.9999$$

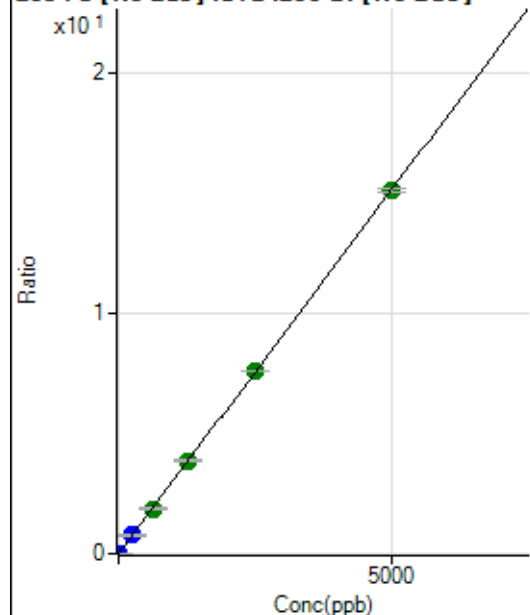
$$DL = 0.09273$$

$$BEC = 0.1632$$

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	1075.96	0.0005	P	6.5
2	☐	1.000	0.859	6598.94	0.0031	P	3.3
3	☐	250.000	251.631	1583800.05	0.7620	P	2.2
4	☐	625.000	618.353	3996012.34	1.8718	A	3.3
5	☐	1250.000	1278.484	8267590.55	3.8695	A	2.2
6	☐	2500.000	2511.712	16473573.98	7.6015	A	0.4
7	☐	5000.000	4987.772	33403042.30	15.0947	A	1.1
8	☐			31708.33	0.0158	P	2.3

$$y = 0.0030 * x + 5.3002E-004$$

$$R = 1.0000$$

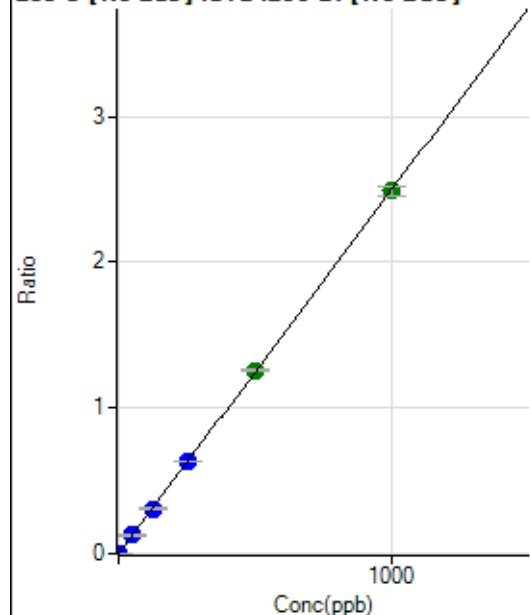
$$DL = 0.03432$$

$$BEC = 0.1751$$

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	25.00	0.0000	P	29.0
2	☐	1.000	0.856	4520.40	0.0021	P	6.1
3	☐	50.000	50.454	261699.88	0.1259	P	0.9
4	☐	125.000	123.739	659146.80	0.3088	P	3.4
5	☐	250.000	253.050	1349154.82	0.6314	P	0.7
6	☐	500.000	503.296	2721531.68	1.2558	A	1.1
7	☐	1000.000	997.724	5508728.81	2.4895	A	2.5
8	☐			594.48	0.0003	P	13.3

$$y = 0.0025 * x + 1.2214E-005$$

$$R = 1.0000$$

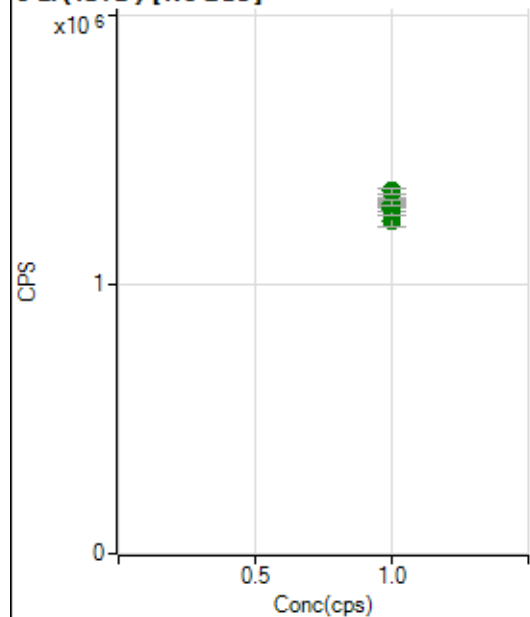
$$DL = 0.004255$$

$$BEC = 0.004895$$

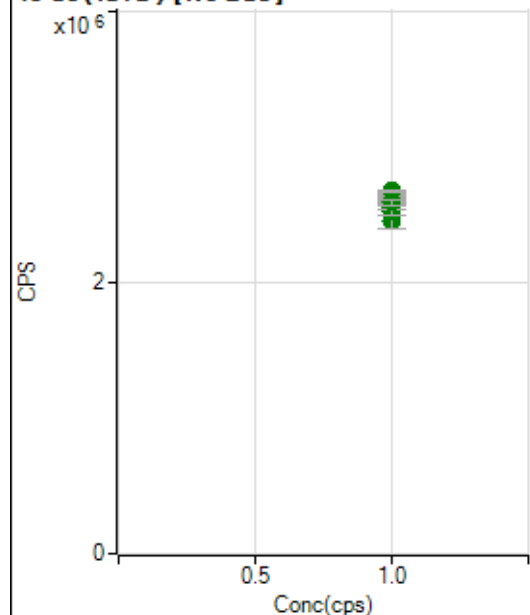
Weight: <None>

Min Conc: 0

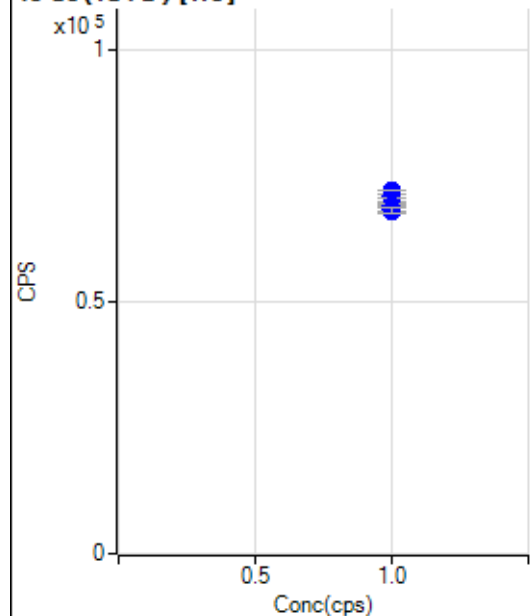
6 Li (ISTD) [No Gas]



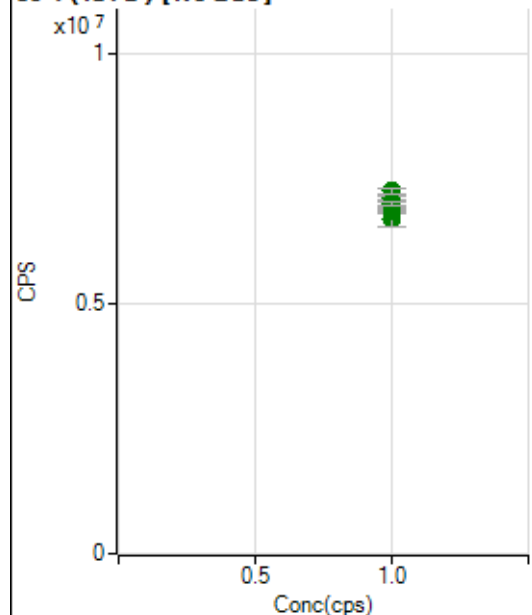
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1237214.43		A	3.4
2	☐	1.000		1271346.20		A	1.8
3	☐	1.000		1283027.85		A	1.3
4	☐	1.000		1312099.33		A	1.7
5	☐	1.000		1300465.56		A	1.5
6	☐	1.000		1277620.84		A	2.9
7	☐	1.000		1302897.06		A	1.5
8	☐	1.000		1347926.77		A	1.3

45 Sc (ISTD) [No Gas]

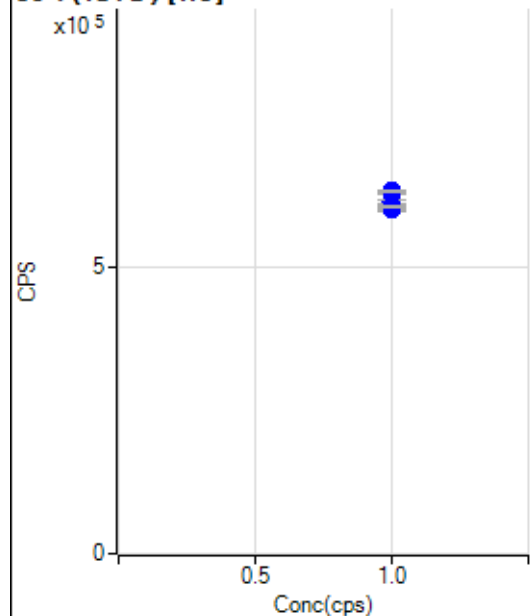
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2448997.41		A	4.3
2	☐	1.000		2557490.88		A	1.4
3	☐	1.000		2520495.62		A	1.3
4	☐	1.000		2602440.19		A	0.7
5	☐	1.000		2625097.84		A	2.3
6	☐	1.000		2635817.48		A	0.5
7	☐	1.000		2677208.95		A	0.5
8	☐	1.000		2593782.01		A	1.6

45 Sc (ISTD) [He]

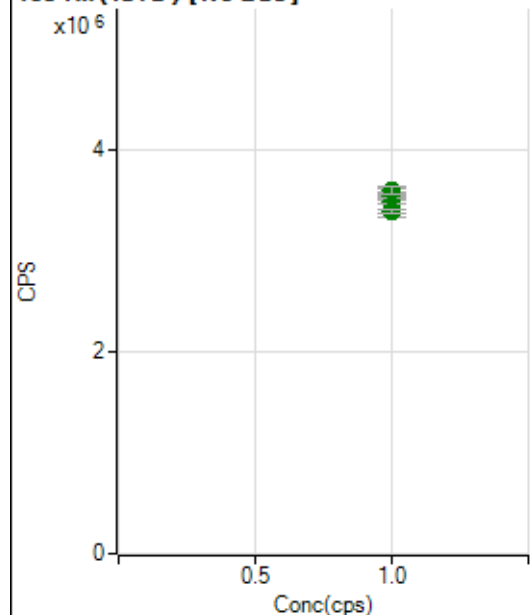
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		67963.03		P	1.5
2	☐	1.000		68259.97		P	1.0
3	☐	1.000		69367.42		P	0.7
4	☐	1.000		68910.69		P	0.4
5	☐	1.000		69005.81		P	1.4
6	☐	1.000		70860.21		P	1.0
7	☐	1.000		71917.40		P	0.1
8	☐	1.000		68104.68		P	1.4

89 Y (ISTD) [No Gas]

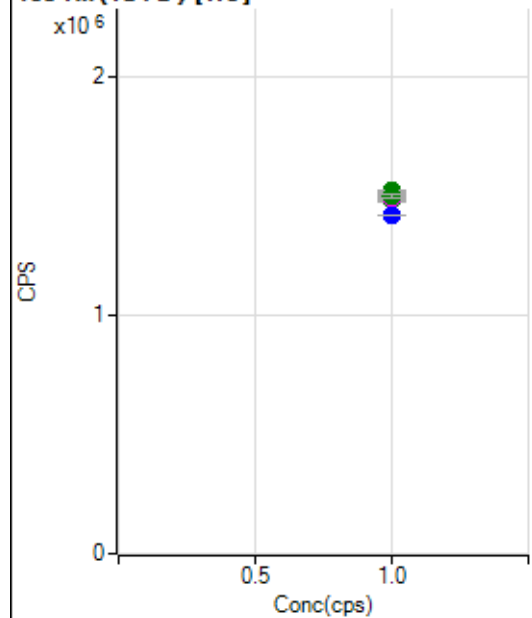
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6680179.62		A	4.3
2	☐	1.000		6857525.11		A	1.7
3	☐	1.000		6875441.35		A	0.4
4	☐	1.000		6991782.46		A	2.2
5	☐	1.000		6941166.77		A	0.6
6	☐	1.000		7103853.99		A	1.3
7	☐	1.000		7262266.07		A	1.9
8	☐	1.000		7013386.42		A	1.2

89 Y (ISTD) [He]

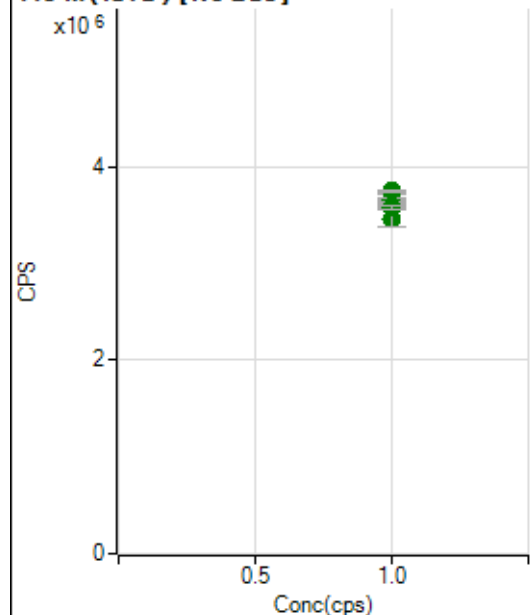
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		603358.69		P	1.7
2	☐	1.000		607979.57		P	0.3
3	☐	1.000		614983.29		P	1.4
4	☐	1.000		606068.47		P	0.8
5	☐	1.000		608560.62		P	0.9
6	☐	1.000		631188.93		P	0.4
7	☐	1.000		634756.04		P	0.7
8	☐	1.000		606950.56		P	0.5

103 Rh (ISTD) [No Gas]

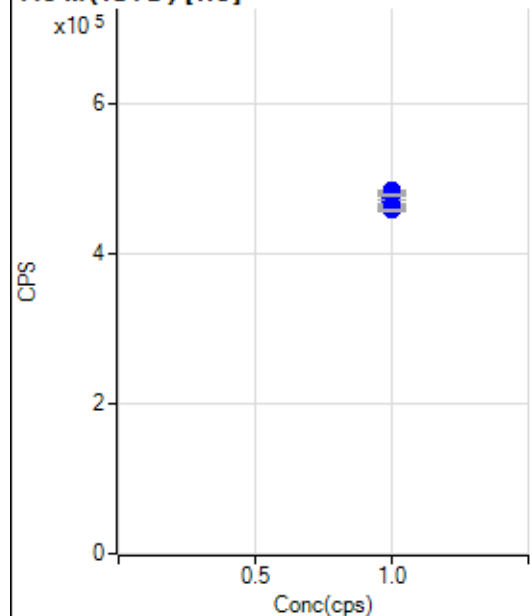
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3403494.39		A	3.9
2	☐	1.000		3517407.46		A	0.7
3	☐	1.000		3497782.85		A	1.1
4	☐	1.000		3586373.21		A	2.3
5	☐	1.000		3555128.42		A	1.6
6	☐	1.000		3549810.97		A	1.3
7	☐	1.000		3600713.88		A	2.2
8	☐	1.000		3395904.33		A	1.3

103 Rh (ISTD) [He]

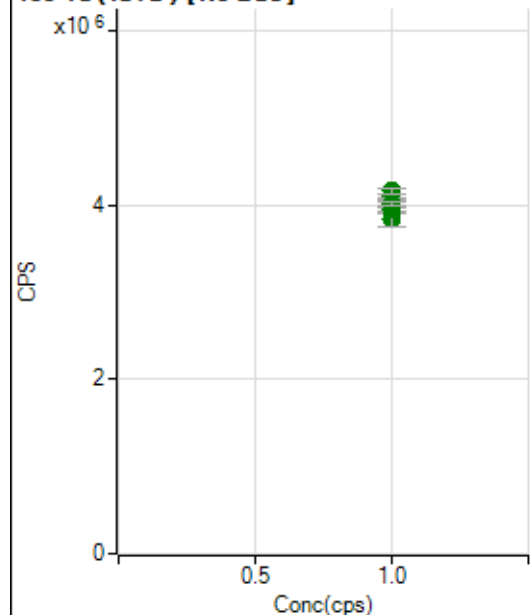
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1495794.58		M	1.9
2	☐	1.000		1504912.29		A	1.4
3	☐	1.000		1516418.33		A	1.5
4	☐	1.000		1482106.61		A	1.1
5	☐	1.000		1494328.68		M	0.7
6	☐	1.000		1523394.93		A	0.6
7	☐	1.000		1502033.38		A	0.7
8	☐	1.000		1421483.55		P	0.3

115 In (ISTD) [No Gas]

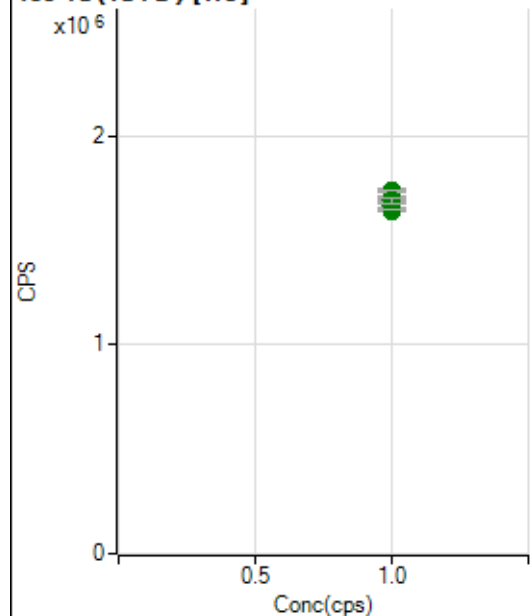
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3468905.94		A	5.0
2	☐	1.000		3596629.82		A	1.6
3	☐	1.000		3616921.57		A	1.9
4	☐	1.000		3668184.91		A	2.5
5	☐	1.000		3661851.42		A	1.2
6	☐	1.000		3661838.84		A	0.9
7	☐	1.000		3751640.32		A	0.8
8	☐	1.000		3578562.12		A	1.3

115 In (ISTD) [He]

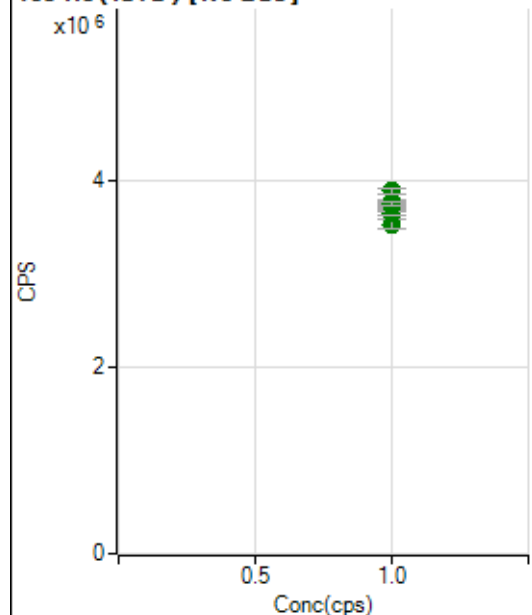
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		465443.24		P	2.1
2	☐	1.000		468185.33		P	1.2
3	☐	1.000		473501.73		P	1.1
4	☐	1.000		468171.48		P	0.8
5	☐	1.000		467583.22		P	1.3
6	☐	1.000		482865.09		P	0.4
7	☐	1.000		478288.65		P	0.5
8	☐	1.000		457415.48		P	0.4

159 Tb (ISTD) [No Gas]

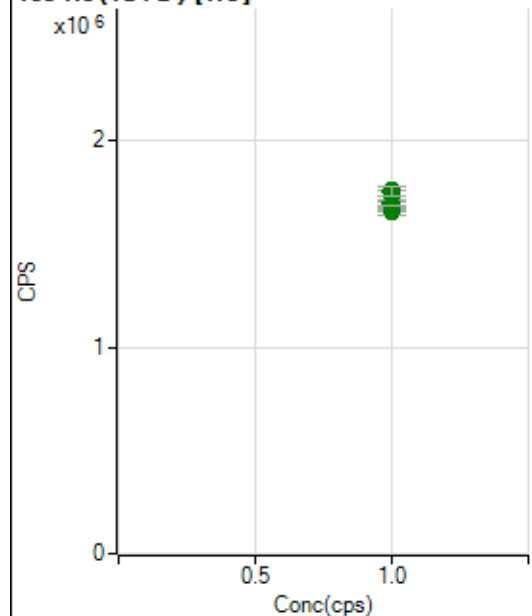
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3836711.02		A	4.3
2	☐	1.000		3954205.32		A	1.1
3	☐	1.000		3983555.12		A	0.4
4	☐	1.000		4007730.84		A	1.7
5	☐	1.000		4012613.52		A	2.2
6	☐	1.000		4100823.48		A	0.9
7	☐	1.000		4166814.38		A	1.7
8	☐	1.000		4019339.91		A	1.5

159 Tb (ISTD) [He]

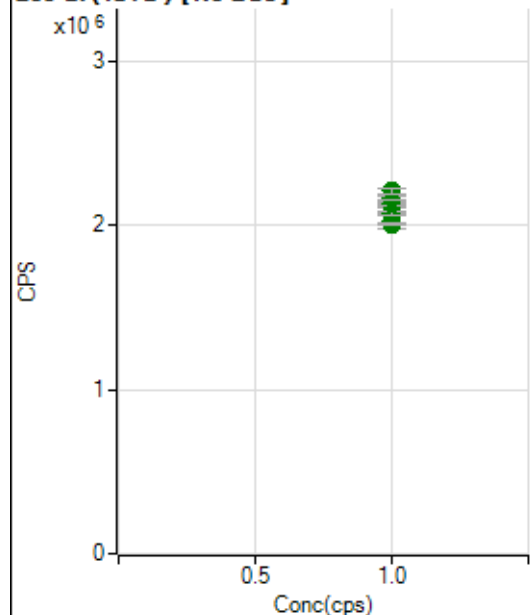
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1642060.63		A	0.5
2	☐	1.000		1652341.42		A	0.8
3	☐	1.000		1674127.09		A	2.0
4	☐	1.000		1667345.10		A	1.0
5	☐	1.000		1665576.64		A	1.9
6	☐	1.000		1728496.99		A	2.1
7	☐	1.000		1738136.66		A	0.7
8	☐	1.000		1690646.42		A	1.9

165 Ho (ISTD) [No Gas]

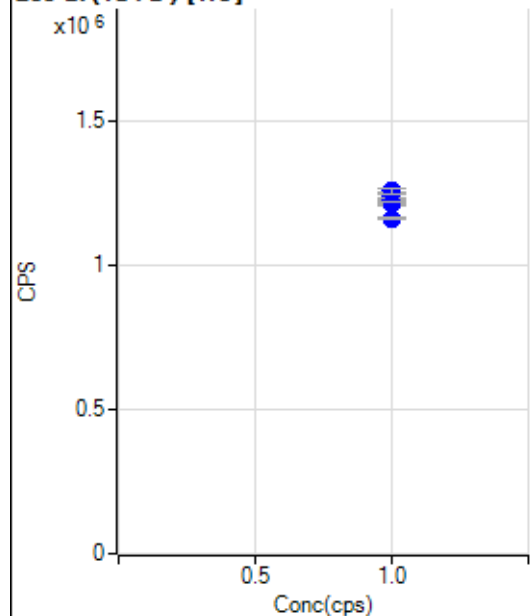
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3534167.61		A	3.2
2	☐	1.000		3656919.18		A	1.8
3	☐	1.000		3654497.91		A	1.1
4	☐	1.000		3740302.55		A	1.3
5	☐	1.000		3721476.99		A	0.4
6	☐	1.000		3765433.16		A	1.1
7	☐	1.000		3889546.27		A	1.5
8	☐	1.000		3751450.04		A	1.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1656995.34		A	2.4
2	☐	1.000		1671286.16		A	1.1
3	☐	1.000		1696965.58		A	1.5
4	☐	1.000		1702676.29		A	1.5
5	☐	1.000		1674663.97		A	0.5
6	☐	1.000		1749700.36		A	1.5
7	☐	1.000		1758253.29		A	2.7
8	☐	1.000		1686103.03		A	0.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2029253.72		A	4.7
2	☐	1.000		2107473.02		A	2.8
3	☐	1.000		2078722.35		A	1.0
4	☐	1.000		2135886.04		A	2.2
5	☐	1.000		2136843.81		A	1.0
6	☐	1.000		2167147.09		A	1.1
7	☐	1.000		2212596.55		A	1.8
8	☐	1.000		2009926.06		A	0.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1216538.20		P	1.8
2	☐	1.000		1221536.79		P	0.9
3	☐	1.000		1242039.50		P	1.2
4	☐	1.000		1221739.34		P	0.1
5	☐	1.000		1224753.07		P	1.1
6	☐	1.000		1256235.75		P	0.2
7	☐	1.000		1258724.11		P	1.5
8	☐	1.000		1163176.62		P	0.4

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8122920 MS.b
Acq. Date-Time 2020-12-29 13:56:24
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		2650	26500.84			0.834	5.000
24		31638	316375.08			0.563	5.000
25		4220	42199.75			0.351	5.000
26		4869	48690.55			0.756	5.000
59		5431	54314.96			0.975	5.000
113		2537	25371.52			0.745	5.000
115		8509	85094.02			1.439	5.000
206		2667	26674.25			0.781	5.000
207		2234	22338.19			1.089	5.000
208		5425	54249.17			0.891	5.000
220		1	8.30			27.474	

Mass	RSD% (Flag)
9	
24	
25	
26	
59	
113	
115	
206	
207	
208	
220	

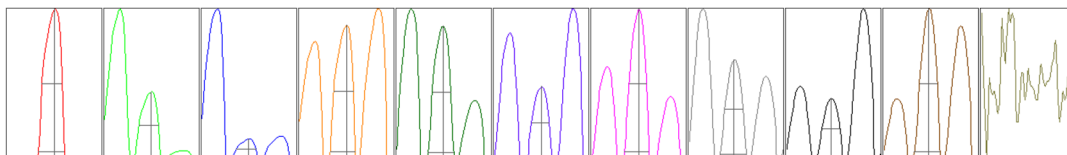
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2662	2661	2648	2613	2667
24	31635	31639	31772	31347	31794
25	4206	4214	4229	4210	4242
26	4884	4887	4867	4807	4900
59	5390	5385	5490	5405	5488
113	2549	2523	2545	2512	2557
115	8655	8552	8572	8358	8410
206	2643	2649	2687	2670	2688
207	2225	2204	2263	2223	2254
208	5390	5429	5463	5363	5479

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	1	1	1	1	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4483.17	9.05	8.90 - 9.10	
24	54445.47	24.00	23.90 - 24.10	
25	7219.40	25.00	24.90 - 25.10	
26	8274.87	26.05	25.90 - 26.10	
59	9784.84	59.00	58.90 - 59.10	
113	4782.60	113.05	112.90 - 113.10	
115	16262.33	115.05	114.90 - 115.10	
206	4848.14	205.95	205.90 - 206.10	
207	4033.88	206.95	206.90 - 207.10	
208	10039.33	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.819	0.900	
24	0.62	0.790	0.900	
25	0.62	0.795	0.900	
26	0.63	0.786	0.900	
59	0.58	0.813	0.900	
113	0.55	0.737	0.900	
115	0.54	0.772	0.900	
206	0.57	0.824	0.900	
207	0.57	0.788	0.900	
208	0.56	0.804	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.46 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.4 V	Deflect	15.0 V
Extract 2	-205.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9990	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-0.3 mm
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EM

Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1350 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		1099	10987.20			2.796	
89		33212	332121.08			2.859	
205		2388	23884.87			2.961	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	1118	1129	1103	1049	1094
89	33561	34143	33658	31667	33031
205	2404	2476	2407	2281	2374

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.46 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.4 V	Deflect	6.2 V
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US EPA Tune Check Report

Extract 2	-205.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	122	Axis Gain	0.9990	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	0.00		
Hardware Settings					
Torch					
Torch H	0.6 mm	Torch V	-0.3 mm		
EM					
Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1350 V