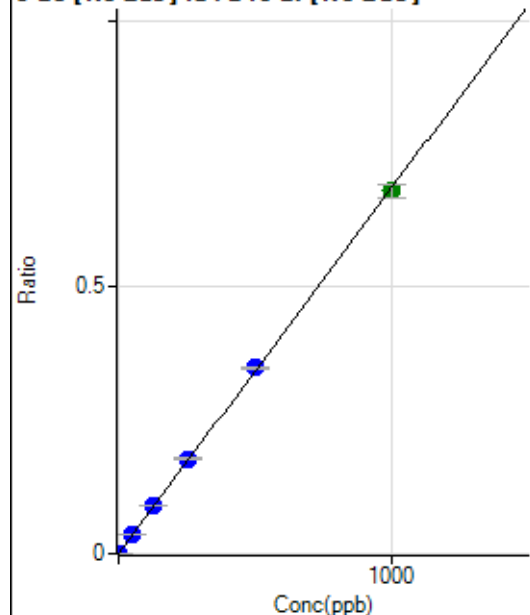


Calibration for 006CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P810313MS2.b\
 Analysis File: P810313MS2.batch.bin
 DA Date-Time: 2023-11-01 00:22:05
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	006CALB.d	S00	2023-10-31 12:26:47
2	008CALS.d	S02	2023-10-31 12:33:37
3	009CALS.d	S03	2023-10-31 12:37:01
4	010CALS.d	S04	2023-10-31 12:40:18
5	011CALS.d	S05	2023-10-31 12:43:23
6	012CALS.d	S06	2023-10-31 12:46:28
7	013CALS.d	S07	2023-10-31 12:49:30
8	014CALS.d	S08	2023-10-31 12:52:34

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	39.16	0.0000	P	17.0
2	☐	1.000	0.874	1361.98	0.0006	P	1.4
3	☐	50.000	51.612	76680.61	0.0354	P	2.4
4	☐	125.000	132.707	187661.84	0.0911	P	1.4
5	☐	250.000	259.453	358406.36	0.1780	P	0.8
6	☐	500.000	508.640	677312.65	0.3490	P	1.1
7	☐	1000.000	992.273	1323773.40	0.6809	A	3.4
8	☐			581.61	0.0003	P	12.0

$$y = 6.8618E-004 * x + 1.7394E-005$$

$$R = 0.9999$$

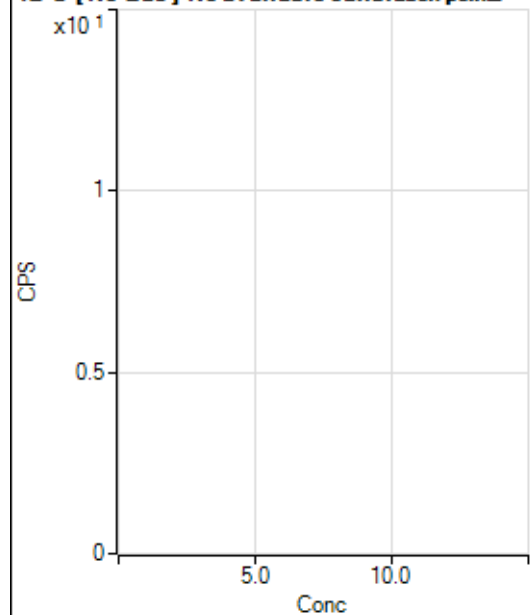
$$DL = 0.01295$$

$$BEC = 0.02535$$

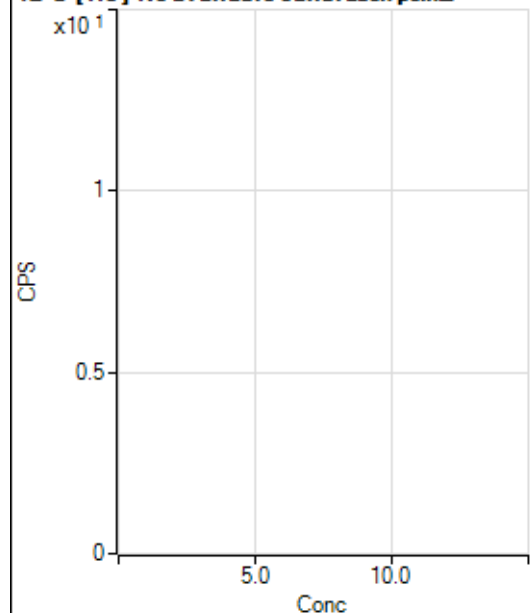
Weight: <None>

Min Conc: 0

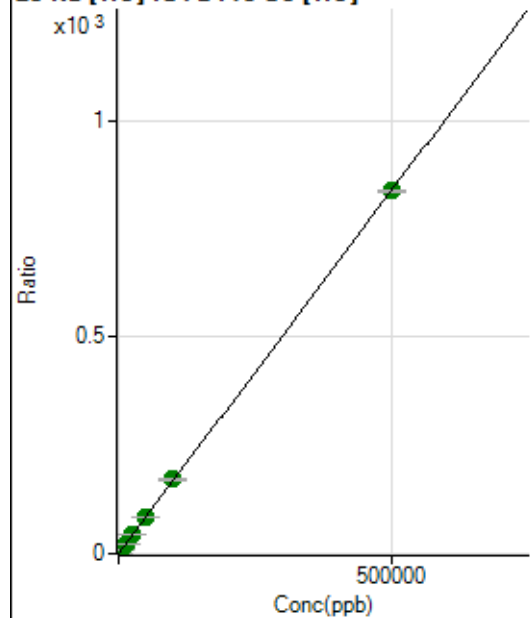
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2234010.96		A	0.3
2	☐			2186288.04		A	1.0
3	☐			2257005.16		A	2.8
4	☐			2149225.25		A	1.5
5	☐			2137590.46		A	1.2
6	☐			2194151.01		A	2.8
7	☐			2382110.64		A	3.0
8	☐			2061460.63		A	1.9

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			29632.16		P	1.8
2	☐			29839.27		P	1.4
3	☐			30912.54		P	1.1
4	☐			29881.54		P	1.3
5	☐			29815.88		P	1.6
6	☐			31801.14		P	0.9
7	☐			35068.47		P	1.4
8	☐			34606.43		P	0.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	35692.44	0.1860	P	2.3
2	☐	500.000	412.569	165867.14	0.8778	P	0.6
3	☐	5000.000	5032.871	1545352.25	8.6256	A	0.4
4	☐	12500.000	13013.036	3809607.34	22.0076	A	0.5
5	☐	25000.000	25395.738	7202717.88	42.7722	A	0.7
6	☐	50000.000	49980.033	13827028.13	83.9978	A	0.6
7	☐	100000.00	101927.41	27511735.70	171.1087	A	1.7
8	☐	500000.00	499583.66	136297874.6	837.9409	A	0.5

$$y = 0.0017 * x + 0.1860$$

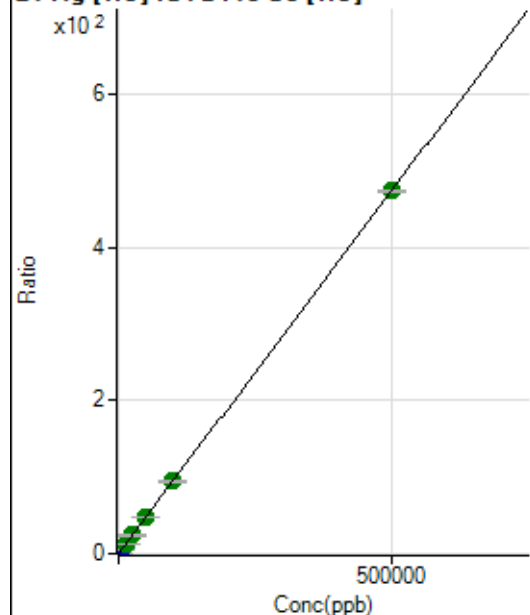
$$R = 1.0000$$

$$DL = 7.614$$

$$BEC = 110.9$$

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	511.13	0.0027	P	22.5
2	☐	500.000	411.801	74228.94	0.3929	P	1.5
3	☐	5000.000	4923.141	836212.99	4.6675	P	0.7
4	☐	12500.000	12920.049	2119563.53	12.2449	A	1.2
5	☐	25000.000	25376.490	4049490.01	24.0478	A	1.9
6	☐	50000.000	49727.959	7757059.74	47.1216	A	0.4
7	☐	100000.00	99754.665	15195997.69	94.5237	A	1.0
8	☐	500000.00	500047.80	77069353.30	473.8154	A	0.5

$$y = 9.4753\text{E-}004 * x + 0.0027$$

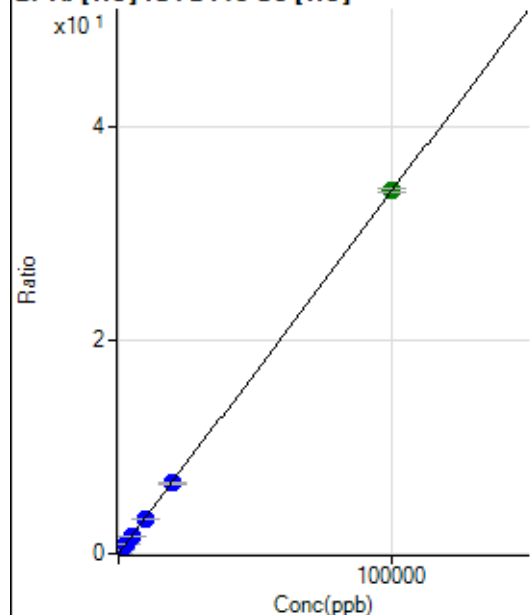
R = 1.0000

DL = 1.891

BEC = 2.802

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	143.34	0.0007	P	9.5
2	☐	20.000	16.342	1191.17	0.0063	P	4.1
3	☐	1000.000	980.753	59909.63	0.3344	P	2.0
4	☐	2500.000	2505.741	147672.70	0.8531	P	0.3
5	☐	5000.000	4979.747	285372.48	1.6947	P	0.7
6	☐	10000.000	9726.907	544827.16	3.3095	P	1.0
7	☐	20000.000	19443.841	1063451.67	6.6149	P	1.0
8	☐	100000.00	100139.60	5540898.67	34.0648	A	1.1

$$y = 3.4017\text{E-}004 * x + 7.4613\text{E-}004$$

R = 1.0000

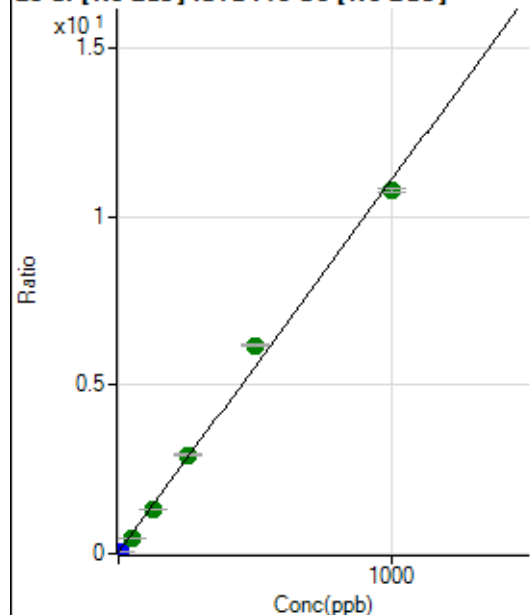
DL = 0.6243

BEC = 2.193

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	212808.74	0.0436	P	2.0
2	☐	10.000	0.498	238631.40	0.0491	P	0.9
3	☐	50.000	35.749	2049940.60	0.4380	A	2.3
4	☐	125.000	115.953	6040273.17	1.3227	A	1.2
5	☐	250.000	260.629	13088740.78	2.9186	A	1.4
6	☐	500.000	555.742	26271955.72	6.1740	A	1.1
7	☐	1000.000	971.410	45982579.32	10.7592	A	1.1
8	☐			301960.69	0.0748	P	6.4

$$y = 0.0110 * x + 0.0436$$

$$R = 0.9972$$

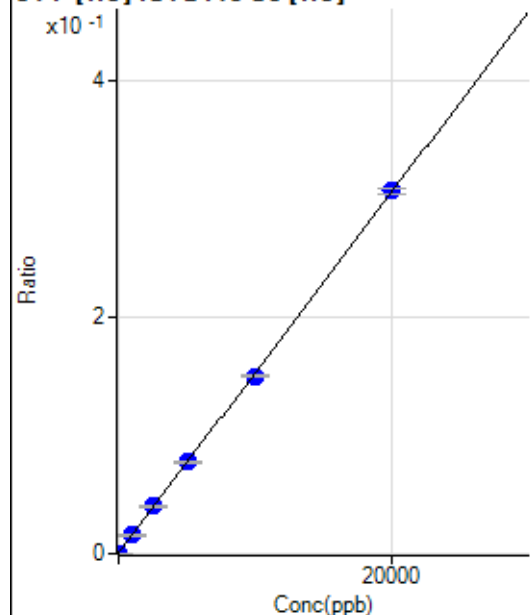
$$DL = 0.2382$$

$$BEC = 3.957$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-8.889	81.11	0.0004	P	3.7
2	☐	0.000	8.889	131.11	0.0007	P	19.7
3	☐	1000.000	978.677	2779.18	0.0155	P	5.5
4	☐	2500.000	2583.035	6928.39	0.0400	P	1.8
5	☐	5000.000	5045.912	13074.88	0.0776	P	1.8
6	☐	10000.000	9790.660	24716.70	0.1501	P	1.0
7	☐	20000.000	20083.879	49413.82	0.3074	P	1.6
8	☐			124.45	0.0008	P	15.8

$$y = 1.5278E-005 * x + 5.5845E-004$$

$$R = 0.9999$$

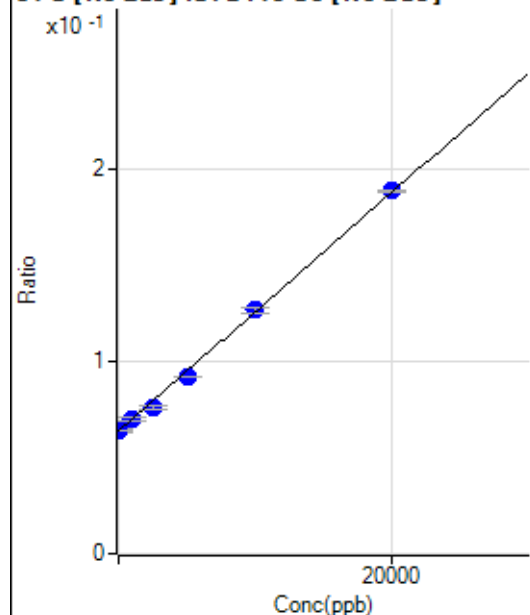
$$DL = 14.96$$

$$BEC = 36.55$$

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	-9.327	311217.65	0.0638	P	2.3
2	☐	0.000	9.327	310511.08	0.0639	P	0.9
3	☐	1000.000	1017.143	328516.28	0.0702	P	3.3
4	☐	2500.000	1974.411	347627.49	0.0761	P	2.4
5	☐	5000.000	4521.855	412340.46	0.0919	P	0.7
6	☐	10000.000	10126.093	539145.59	0.1267	P	1.9
7	☐	20000.000	20121.331	806521.78	0.1887	P	0.8
8	☐			251254.83	0.0622	P	2.0

$$y = 6.2036\text{E-}006 * x + 0.0639$$

$$R = 0.9994$$

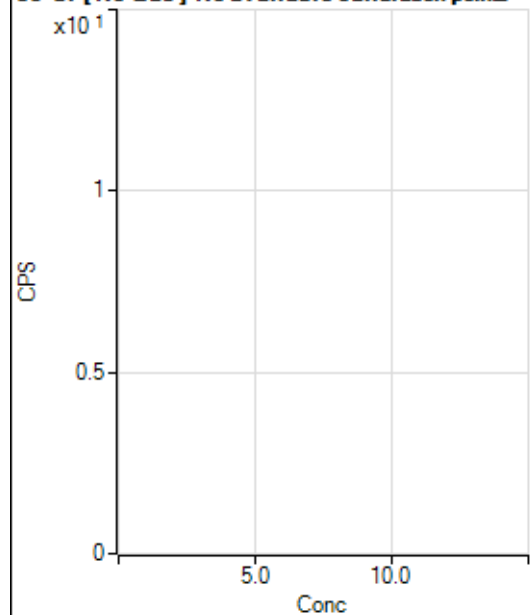
$$DL = 508.9$$

$$BEC = 1.03\text{E}+04$$

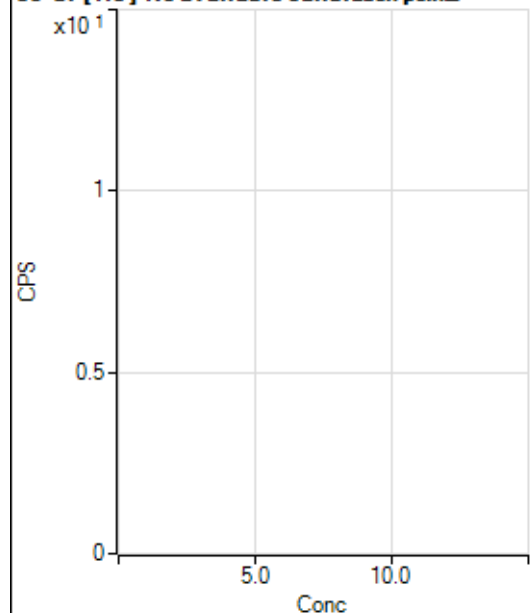
Weight: <None>

Min Conc: 0

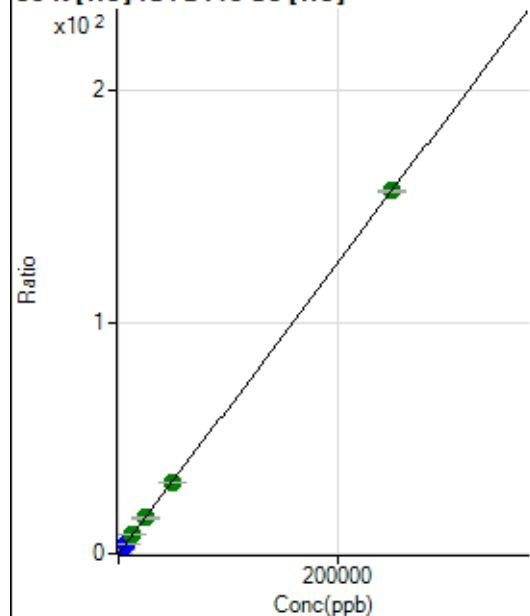
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			84830.83		P	1.7
2	☐			82717.77		P	1.0
3	☐			120299.10		P	0.9
4	☐			112289.05		P	1.5
5	☐			109566.12		P	0.5
6	☐			109077.93		P	1.4
7	☐			110458.38		P	1.5
8	☐			100446.21		P	0.9

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			748.92		P	3.4
2	☐			677.80		P	4.0
3	☐			1053.38		P	5.0
4	☐			935.60		P	2.3
5	☐			908.93		P	10.7
6	☐			914.48		P	3.7
7	☐			985.60		P	6.5
8	☐			977.82		P	14.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11154.38	0.0581	P	2.3
2	☐	500.000	407.241	59131.59	0.3129	P	0.7
3	☐	2500.000	2402.425	279733.80	1.5613	P	0.9
4	☐	6250.000	6219.611	683703.95	3.9497	P	0.5
5	☐	12500.000	12634.930	1341081.95	7.9638	A	1.2
6	☐	25000.000	24501.926	2533308.42	15.3889	A	0.5
7	☐	50000.000	48797.274	4917653.19	30.5904	A	1.2
8	☐	250000.00	250285.52	25481760.17	156.6609	A	0.9

$$y = 6.2570E-004 * x + 0.0581$$

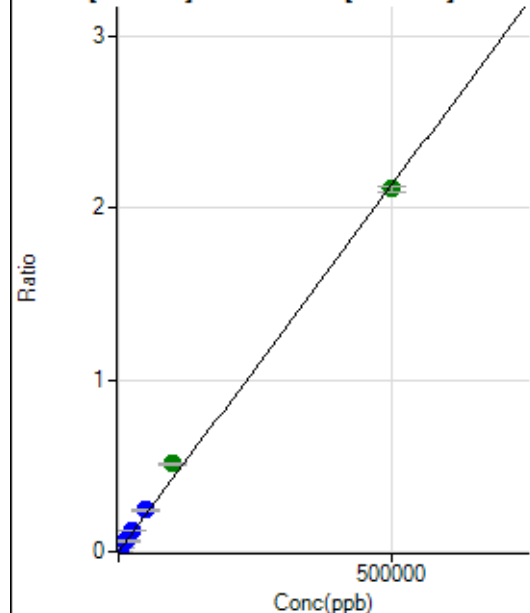
$$R = 1.0000$$

$$DL = 6.29$$

$$BEC = 92.88$$

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	292.23	0.0001	P	12.5
2	☐	500.000	406.492	8713.83	0.0018	P	2.5
3	☐	5000.000	5649.771	113123.96	0.0242	P	1.3
4	☐	12500.000	14461.299	282040.61	0.0618	P	2.2
5	☐	25000.000	28308.973	542068.88	0.1209	P	0.5
6	☐	50000.000	56817.277	1031955.95	0.2425	P	1.7
7	☐	100000.00	119773.93	2184639.43	0.5112	A	1.9
8	☐	500000.00	495142.59	8535900.43	2.1131	A	1.7

$$y = 4.2675\text{E-}006 * x + 5.9820\text{E-}005$$

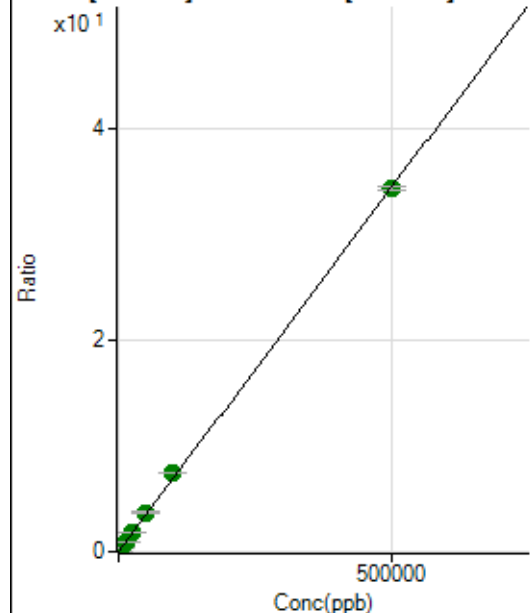
$$R = 0.9991$$

$$DL = 5.263$$

$$BEC = 14.02$$

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	51734.14	0.0106	P	2.3
2	☐	500.000	406.103	187202.69	0.0386	P	1.3
3	☐	5000.000	5586.727	1848727.14	0.3950	A	3.5
4	☐	12500.000	13892.003	4412834.66	0.9666	A	2.5
5	☐	25000.000	27112.537	8414794.60	1.8763	A	1.6
6	☐	50000.000	53701.665	15768475.32	3.7060	A	2.5
7	☐	100000.00	107435.33	31641925.64	7.4035	A	0.8
8	☐	500000.00	497996.56	138477551.2	34.2791	A	0.9

$$y = 6.8813\text{E-}005 * x + 0.0106$$

$$R = 0.9999$$

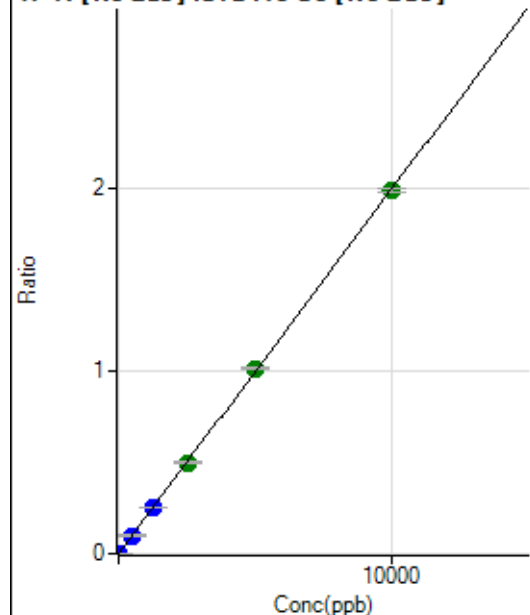
$$DL = 10.7$$

$$BEC = 154.2$$

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	93.33	0.0000	P	17.7
2	☐	5.000	4.401	4359.60	0.0009	P	3.6
3	☐	500.000	498.384	465870.97	0.0995	P	1.9
4	☐	1250.000	1271.113	1158948.16	0.2538	P	2.7
5	☐	2500.000	2505.091	2243595.92	0.5003	A	0.5
6	☐	5000.000	5078.156	4315260.80	1.0141	A	1.0
7	☐	10000.000	9957.091	8497962.37	1.9884	A	1.0
8	☐			4191.81	0.0010	P	7.6

$$y = 1.9969\text{E-}004 * x + 1.9090\text{E-}005$$

$$R = 1.0000$$

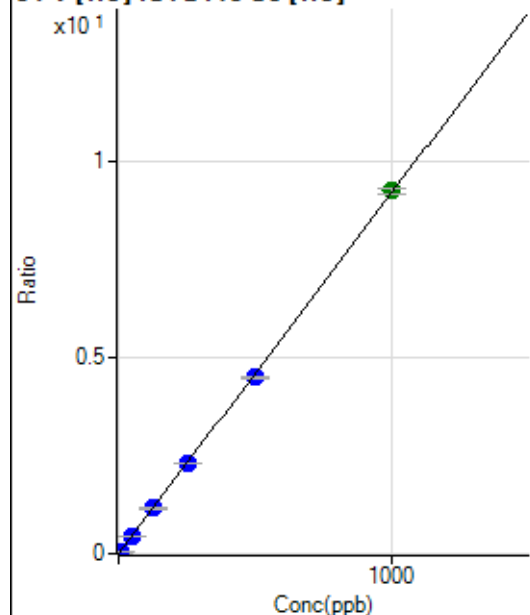
$$DL = 0.05089$$

$$BEC = 0.0956$$

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	20.00	0.0001	P	45.5
2	☐	5.000	4.083	7125.17	0.0377	P	1.3
3	☐	50.000	48.996	80863.67	0.4513	P	1.7
4	☐	125.000	125.847	200623.82	1.1591	P	1.0
5	☐	250.000	250.335	388222.25	2.3055	P	0.7
6	☐	500.000	487.875	739648.67	4.4930	P	0.7
7	☐	1000.000	1005.928	1489225.19	9.2639	A	1.4
8	☐			1406.92	0.0086	P	27.7

$$y = 0.0092 * x + 1.0454\text{E-}004$$

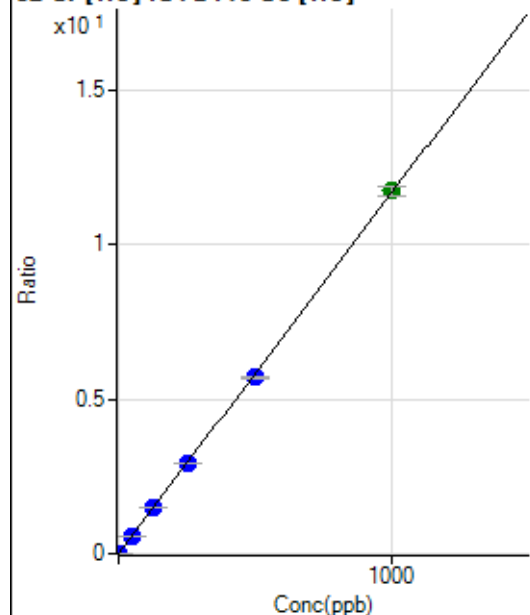
$$R = 0.9999$$

$$DL = 0.01551$$

$$BEC = 0.01135$$

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	1144.50	0.0060	P	4.7
2	☐	2.000	1.655	4776.39	0.0253	P	1.1
3	☐	50.000	49.133	103791.74	0.5793	P	0.2
4	☐	125.000	126.939	257443.12	1.4873	P	0.7
5	☐	250.000	248.883	490077.85	2.9103	P	0.4
6	☐	500.000	487.875	938134.21	5.6992	P	0.7
7	☐	1000.000	1006.144	1888192.30	11.7472	A	2.5
8	☐			11402.74	0.0701	P	4.1

$$y = 0.0117 * x + 0.0060$$

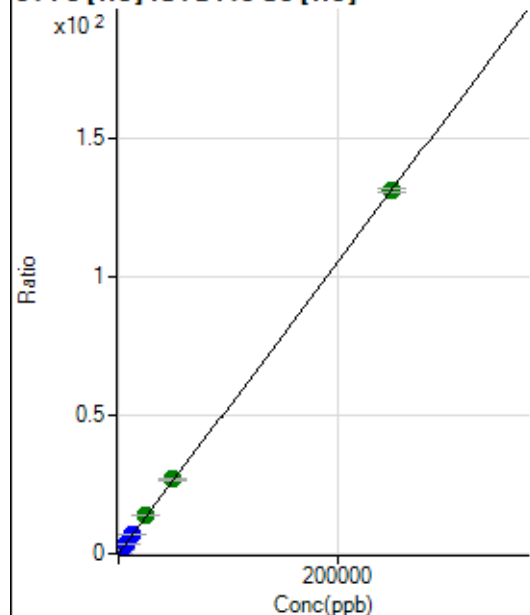
$$R = 0.9999$$

$$DL = 0.07205$$

$$BEC = 0.5112$$

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	638.91	0.0033	P	5.8
2	☐	50.000	42.597	4844.20	0.0256	P	3.4
3	☐	2500.000	2513.625	236476.97	1.3199	P	1.1
4	☐	6250.000	6510.826	590901.08	3.4136	P	0.2
5	☐	12500.000	12792.215	1128863.35	6.7037	P	0.7
6	☐	25000.000	26029.179	2244809.45	13.6370	A	0.3
7	☐	50000.000	50988.566	4293605.88	26.7103	A	1.8
8	☐	250000.00	249678.10	21272391.49	130.7808	A	1.1

$$y = 5.2378E-004 * x + 0.0033$$

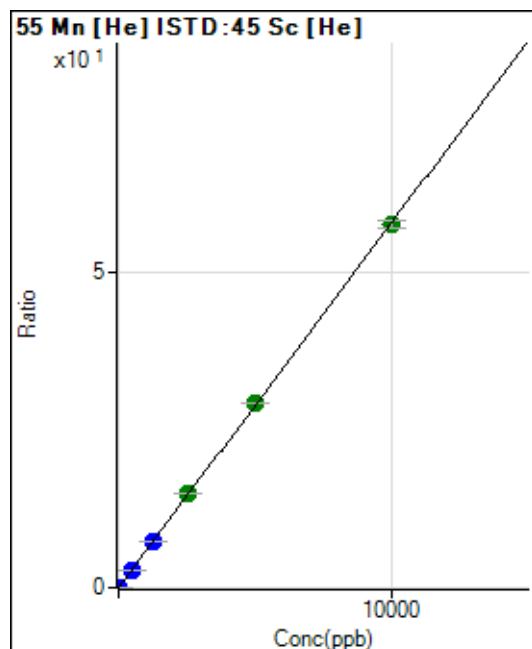
$$R = 1.0000$$

$$DL = 1.104$$

$$BEC = 6.349$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	72.22	0.0004	P	7.5
2	☐	1.000	0.842	990.04	0.0052	P	3.1
3	☐	500.000	493.163	510277.44	2.8482	P	0.6
4	☐	1250.000	1267.827	1267322.25	7.3217	P	1.3
5	☐	2500.000	2586.463	2515041.28	14.9363	A	1.7
6	☐	5000.000	5060.402	4810395.69	29.2225	A	0.3
7	☐	10000.000	9946.297	9232199.72	57.4370	A	2.3
8	☐			7336.02	0.0451	P	31.2

$$y = 0.0058 * x + 3.7631E-004$$

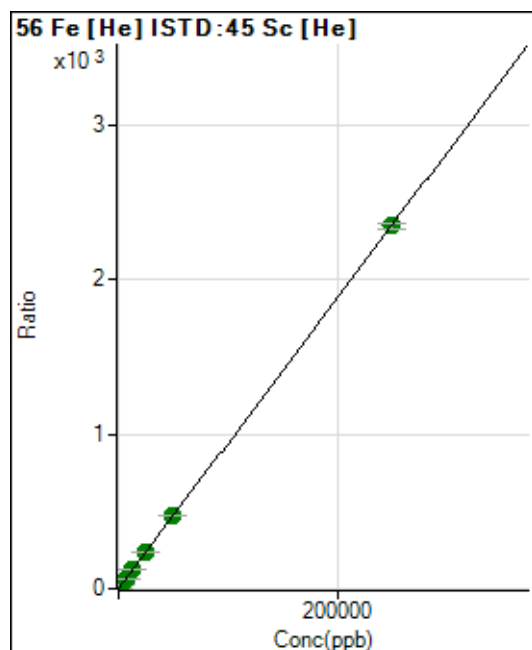
$$R = 0.9999$$

$$DL = 0.01459$$

$$BEC = 0.06517$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7176.43	0.0373	P	8.7
2	☐	50.000	41.458	80682.12	0.4270	P	1.8
3	☐	2500.000	2552.469	4305069.73	24.0292	A	1.0
4	☐	6250.000	6606.690	10755404.00	62.1366	A	0.9
5	☐	12500.000	12841.868	20331546.78	120.7439	A	1.0
6	☐	25000.000	25402.463	39312205.25	238.8067	A	1.2
7	☐	50000.000	49932.832	75459364.98	469.3788	A	0.8
8	☐	250000.00	249946.65	382138727.6	2,349.400	A	1.4

$$y = 0.0094 * x + 0.0373$$

$$R = 1.0000$$

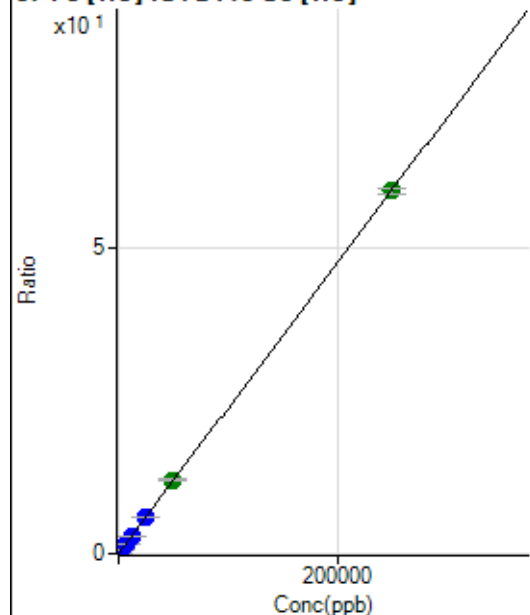
$$DL = 1.04$$

$$BEC = 3.972$$

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	217.78	0.0011	P	13.4
2	☐	50.000	40.399	2029.05	0.0107	P	5.0
3	☐	2500.000	2483.803	105969.79	0.5915	P	0.8
4	☐	6250.000	6409.692	263883.03	1.5245	P	1.2
5	☐	12500.000	12517.165	501172.47	2.9761	P	0.8
6	☐	25000.000	24576.235	961739.06	5.8422	P	0.5
7	☐	50000.000	50598.281	1933274.49	12.0270	A	2.1
8	☐	250000.00	249918.03	9661583.68	59.3998	A	1.4

$$y = 2.3767E-004 * x + 0.0011$$

$$R = 1.0000$$

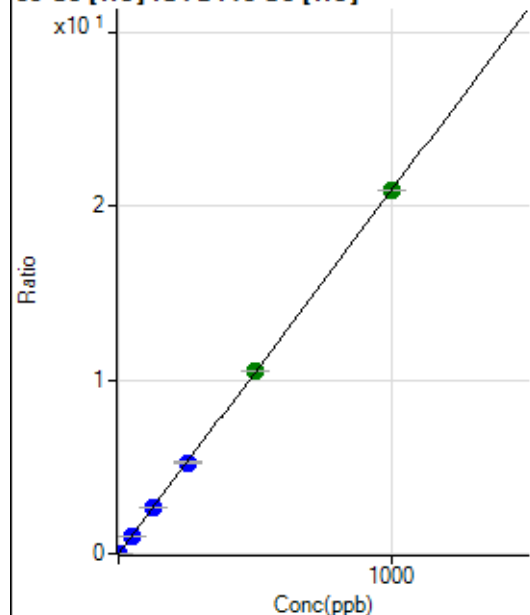
$$DL = 1.925$$

$$BEC = 4.781$$

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	54.45	0.0003	P	29.0
2	☐	1.000	0.868	3486.01	0.0184	P	6.6
3	☐	50.000	49.332	184847.64	1.0318	P	1.2
4	☐	125.000	126.641	458402.21	2.6482	P	0.4
5	☐	250.000	250.169	880837.20	5.2311	P	1.2
6	☐	500.000	502.651	1730124.40	10.5103	A	0.4
7	☐	1000.000	998.461	3356652.59	20.8772	A	0.1
8	☐			4254.19	0.0262	P	8.9

$$y = 0.0209 * x + 2.8256E-004$$

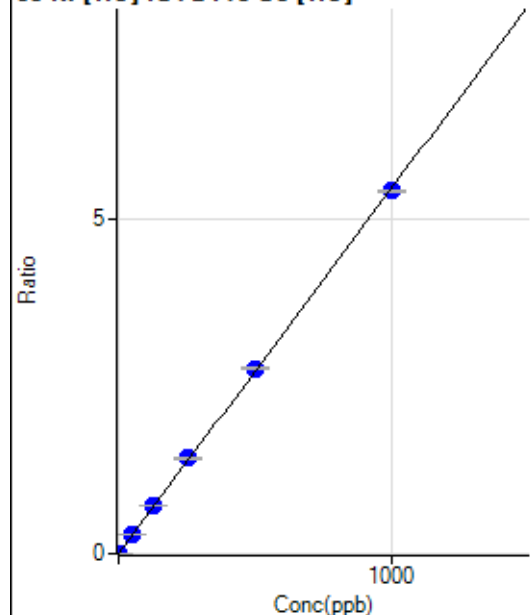
$$R = 1.0000$$

$$DL = 0.01175$$

$$BEC = 0.01351$$

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	40.00	0.0002	P	16.0
2	☐	1.000	0.947	1016.72	0.0054	P	6.3
3	☐	50.000	51.556	50495.96	0.2818	P	0.7
4	☐	125.000	131.127	124019.97	0.7165	P	1.6
5	☐	250.000	260.754	239898.76	1.4246	P	0.2
6	☐	500.000	506.504	455487.19	2.7671	P	0.8
7	☐	1000.000	993.216	872295.89	5.4259	P	0.8
8	☐			2934.79	0.0180	P	3.1

$$y = 0.0055 * x + 2.0871E-004$$

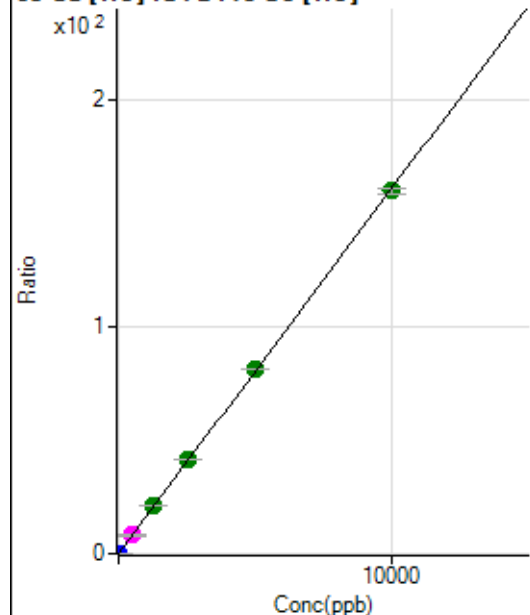
$$R = 0.9999$$

$$DL = 0.01834$$

$$BEC = 0.03821$$

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	647.80	0.0034	P	3.0
2	☐	2.000	1.642	5633.40	0.0298	P	1.1
3	☐	500.000	503.051	1451621.12	8.1019	M	1.4
4	☐	1250.000	1331.237	3710362.20	21.4346	A	0.2
5	☐	2500.000	2599.025	7046367.67	41.8445	A	0.3
6	☐	5000.000	5047.046	13375911.88	81.2546	A	0.5
7	☐	10000.000	9941.414	25727649.89	160.0478	A	1.6
8	☐			12883.97	0.0792	P	28.5

$$y = 0.0161 * x + 0.0034$$

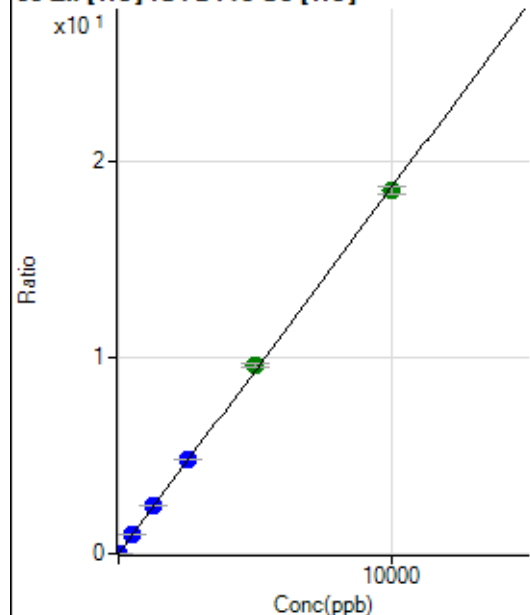
$$R = 0.9999$$

$$DL = 0.01898$$

$$BEC = 0.2096$$

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	561.13	0.0029	P	3.9
2	☐	2.000	1.671	1142.28	0.0060	P	4.9
3	☐	500.000	504.383	169428.82	0.9457	P	0.7
4	☐	1250.000	1302.482	421908.06	2.4375	P	1.0
5	☐	2500.000	2548.705	802703.22	4.7668	P	0.2
6	☐	5000.000	5145.636	1583542.81	9.6209	A	2.5
7	☐	10000.000	9908.226	2977442.77	18.5229	A	2.2
8	☐			6998.49	0.0430	P	4.4

$$y = 0.0019 * x + 0.0029$$

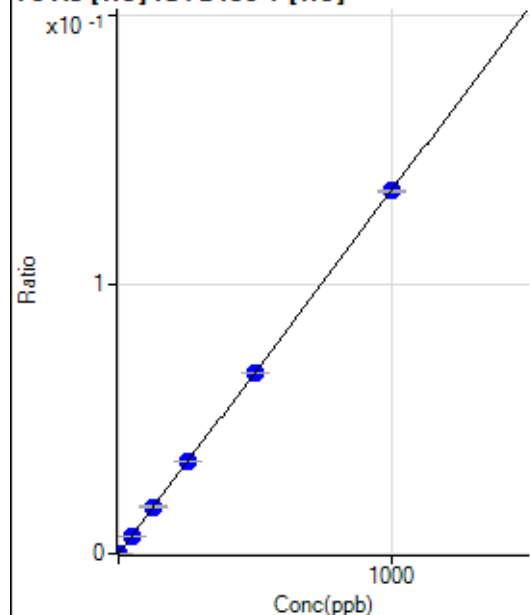
$$R = 0.9998$$

$$DL = 0.185$$

$$BEC = 1.563$$

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	3.33	0.0000	P	100.
2	☐	1.000	0.912	171.12	0.0001	P	12.3
3	☐	50.000	49.637	8588.25	0.0067	P	2.3
4	☐	125.000	129.348	21670.12	0.0174	P	2.6
5	☐	250.000	253.712	41529.97	0.0342	P	0.6
6	☐	500.000	498.966	79730.88	0.0672	P	0.1
7	☐	1000.000	999.064	155666.11	0.1345	P	0.2
8	☐			75.56	0.0001	P	35.4

$$y = 1.3467E-004 * x + 2.3757E-006$$

$$R = 1.0000$$

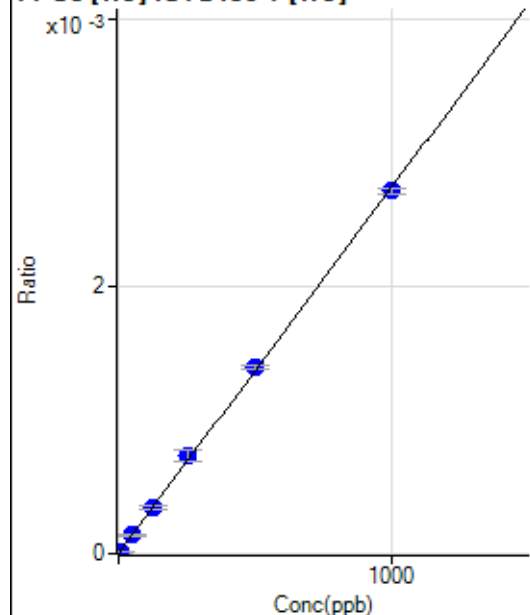
$$DL = 0.05337$$

$$BEC = 0.01764$$

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	86.6
2	☐	5.000	4.454	18.89	0.0000	P	62.1
3	☐	50.000	50.029	177.78	0.0001	P	4.0
4	☐	125.000	127.177	434.46	0.0003	P	7.2
5	☐	250.000	267.142	890.04	0.0007	P	13.1
6	☐	500.000	509.636	1655.67	0.0014	P	2.8
7	☐	1000.000	990.625	3135.94	0.0027	P	1.2
8	☐			23.33	0.0000	P	79.1

$$y = 2.7347\text{E-}006 * x + 1.6079\text{E-}006$$

$$R = 0.9998$$

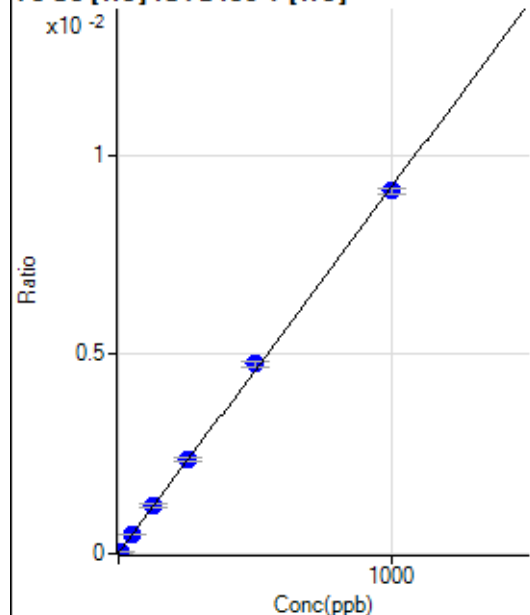
$$DL = 1.528$$

$$BEC = 0.588$$

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	17.78	0.0000	P	27.0
2	☐	5.000	5.087	81.11	0.0001	P	13.8
3	☐	50.000	51.055	617.80	0.0005	P	9.1
4	☐	125.000	132.305	1526.77	0.0012	P	7.6
5	☐	250.000	255.499	2864.76	0.0024	P	3.4
6	☐	500.000	516.033	5632.29	0.0047	P	3.1
7	☐	1000.000	989.642	10519.57	0.0091	P	1.8
8	☐			86.67	0.0001	P	19.1

$$y = 9.1753\text{E-}006 * x + 1.2704\text{E-}005$$

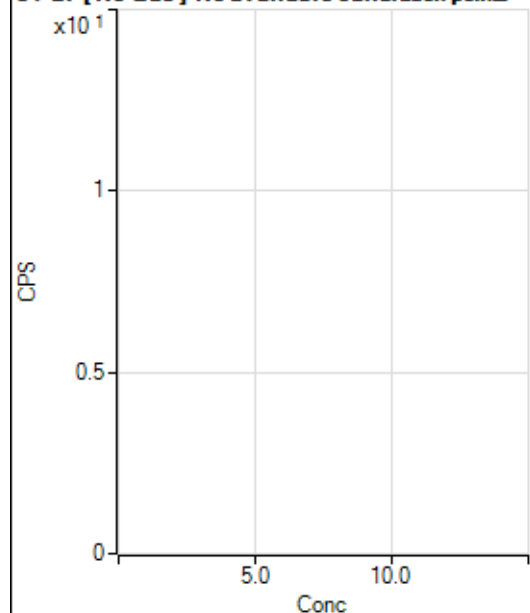
$$R = 0.9998$$

$$DL = 1.12$$

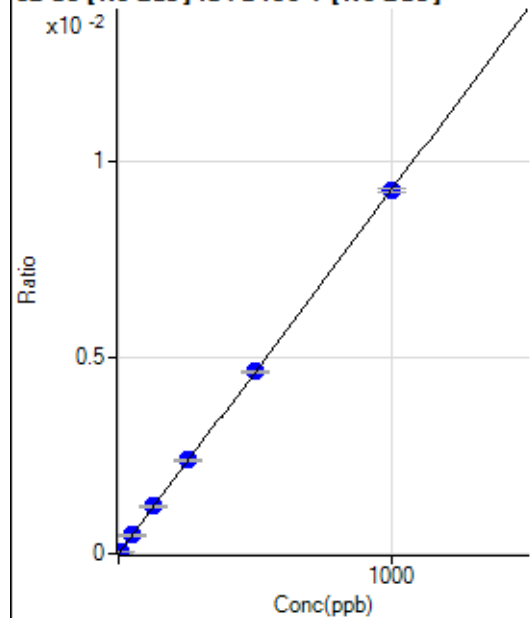
$$BEC = 1.385$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2604.71		P	5.9
2	☐			2670.28		P	6.7
3	☐			2139.08		P	3.1
4	☐			1923.48		P	7.1
5	☐			1932.38		P	7.1
6	☐			1889.04		P	2.8
7	☐			1989.05		P	8.6
8	☐			3803.89		P	9.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-22.22	0.0000	P	-67.
2	☐	5.000	4.498	458.91	0.0000	P	5.7
3	☐	50.000	51.573	5368.93	0.0005	P	7.1
4	☐	125.000	130.674	13223.18	0.0012	P	3.3
5	☐	250.000	256.823	25642.76	0.0024	P	0.5
6	☐	500.000	499.693	48659.26	0.0046	P	2.0
7	☐	1000.000	997.663	95678.11	0.0093	P	0.9
8	☐			492.25	0.0000	P	3.1

$$y = 9.2896E-006 * x - 1.8965E-006$$

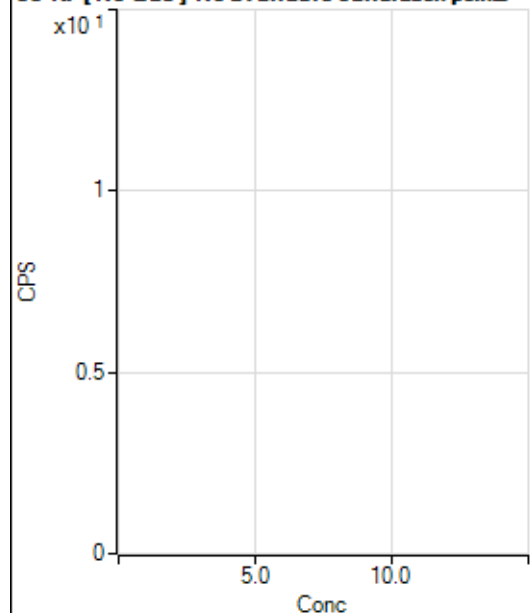
$$R = 1.0000$$

$$DL = 0.4117$$

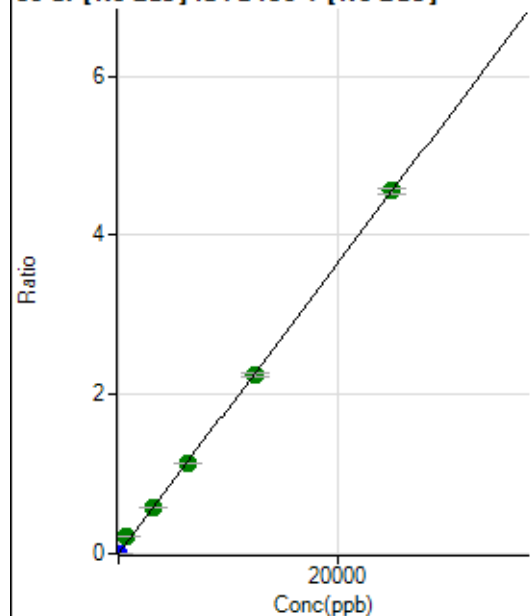
$$BEC = -0.2041$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			206.67		P	12.6
2	☐			173.34		P	10.2
3	☐			166.67		P	2.0
4	☐			184.45		P	2.8
5	☐			174.45		P	2.9
6	☐			156.67		P	14.0
7	☐			181.12		P	11.2
8	☐			191.11		P	11.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	403.35	0.0000	P	13.2
2	☐	1.000	0.807	2086.85	0.0002	P	2.6
3	☐	625.000	1240.451	2539733.78	0.2257	A	1.7
4	☐	3125.000	3170.029	6293280.53	0.5767	A	1.8
5	☐	6250.000	6294.203	12318252.73	1.1451	A	0.2
6	☐	12500.000	12307.216	23481212.43	2.2390	A	2.0
7	☐	25000.000	25064.326	47078374.30	4.5599	A	1.5
8	☐			21968.83	0.0022	P	44.1

$$y = 1.8193E-004 * x + 3.4664E-005$$

$$R = 0.9997$$

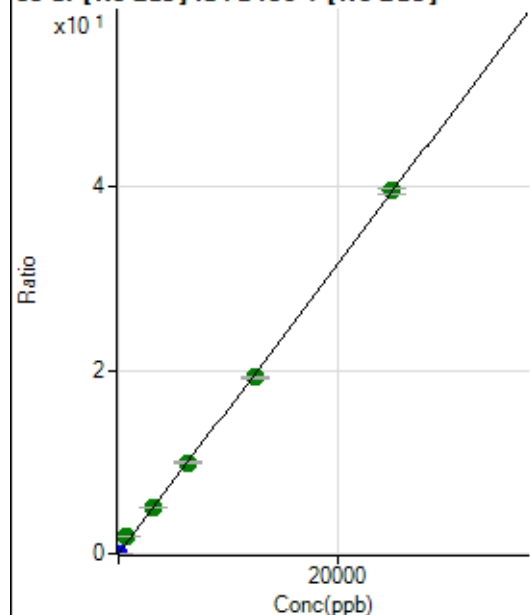
$$DL = 0.0752$$

$$BEC = 0.1905$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	982.27	0.0001	P	12.3
2	☐	1.000	0.808	15604.40	0.0014	P	2.5
3	☐	625.000	1228.180	21758131.48	1.9337	A	1.6
4	☐	3125.000	3154.302	54193820.86	4.9661	A	0.8
5	☐	6250.000	6290.013	106513311.7	9.9028	A	1.3
6	☐	12500.000	12191.014	201283530.3	19.1930	A	1.5
7	☐	25000.000	25125.748	408402522.8	39.5569	A	1.6
8	☐			171511.20	0.0172	P	34.3

$$y = 0.0016 * x + 8.4348E-005$$

$$R = 0.9996$$

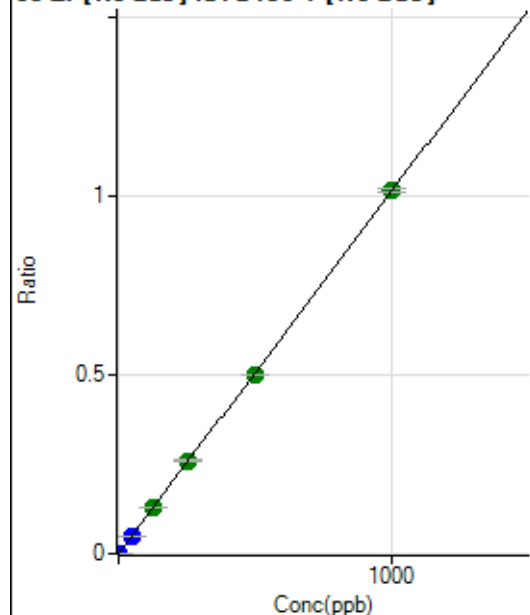
$$DL = 0.01975$$

$$BEC = 0.05358$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	470.01	0.0000	P	8.5
2	☐	1.000	0.798	9746.82	0.0008	P	2.0
3	☐	50.000	48.469	552005.10	0.0491	P	0.6
4	☐	125.000	128.543	1418973.80	0.1300	A	1.0
5	☐	250.000	255.097	2774715.51	0.2580	A	2.3
6	☐	500.000	493.722	5236668.98	0.4993	A	0.8
7	☐	1000.000	1001.498	10456699.36	1.0128	A	0.9
8	☐			8221.58	0.0008	P	15.6

$$y = 0.0010 * x + 4.0451E-005$$

$$R = 0.9999$$

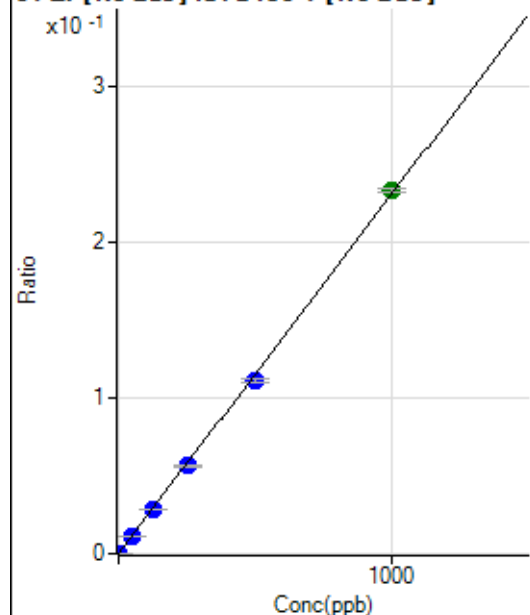
$$DL = 0.0102$$

$$BEC = 0.04$$

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	83.33	0.0000	P	9.8
2	☐	1.000	0.770	2120.18	0.0002	P	5.3
3	☐	50.000	47.574	123352.57	0.0110	P	0.5
4	☐	125.000	123.151	309493.04	0.0284	P	2.2
5	☐	250.000	244.845	606464.20	0.0564	P	1.5
6	☐	500.000	483.540	1167715.50	0.1113	P	1.9
7	☐	1000.000	1009.871	2400975.07	0.2325	A	1.2
8	☐			1771.30	0.0002	P	19.7

$$y = 2.3026\text{E-}004 * x + 7.1713\text{E-}006$$

$$R = 0.9998$$

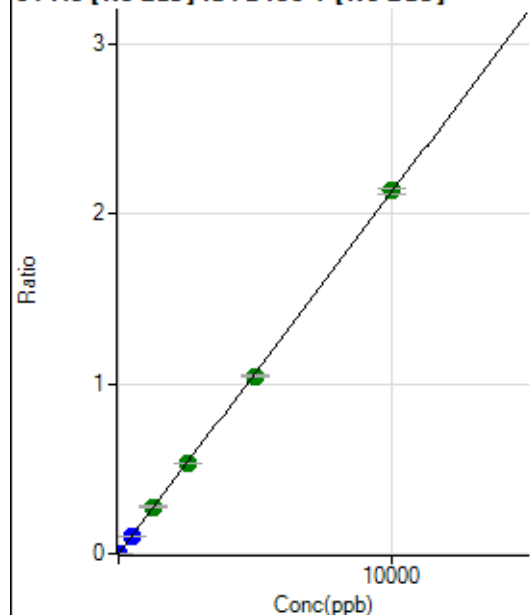
$$DL = 0.009142$$

$$BEC = 0.03114$$

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	153.34	0.0000	P	9.9
2	☐	5.000	4.601	11415.89	0.0010	P	3.6
3	☐	500.000	490.641	1175665.78	0.1045	P	1.2
4	☐	1250.000	1293.080	3004380.27	0.2753	A	2.1
5	☐	2500.000	2502.890	5732160.96	0.5329	A	1.2
6	☐	5000.000	4915.192	10975710.53	1.0466	A	1.3
7	☐	10000.000	10036.765	22064045.78	2.1371	A	1.3
8	☐			11905.32	0.0012	P	24.6

$$y = 2.1292\text{E-}004 * x + 1.3198\text{E-}005$$

$$R = 0.9999$$

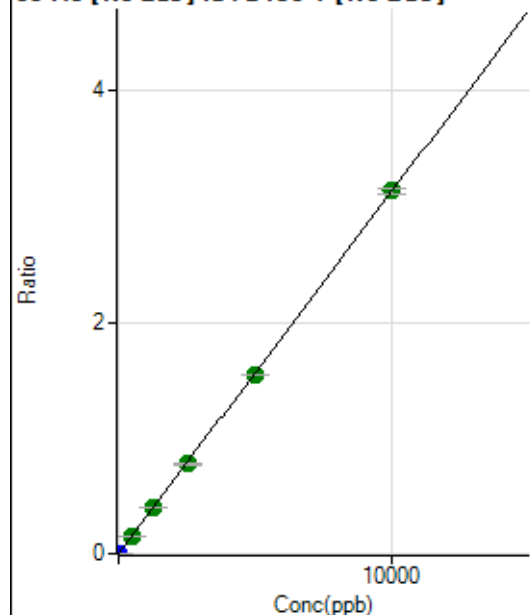
$$DL = 0.01845$$

$$BEC = 0.06198$$

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	56.67	0.0000	P	30.8
2	☐	5.000	3.903	14086.11	0.0012	P	1.6
3	☐	500.000	493.433	1735925.15	0.1543	A	0.8
4	☐	1250.000	1285.530	4385659.31	0.4019	A	2.0
5	☐	2500.000	2479.129	8336761.40	0.7751	A	1.1
6	☐	5000.000	4948.221	16225661.01	1.5470	A	0.4
7	☐	10000.000	10026.995	32365063.41	3.1348	A	1.5
8	☐			15337.02	0.0015	P	23.9

$$y = 3.1263\text{E-}004 * x + 4.8482\text{E-}006$$

$$R = 1.0000$$

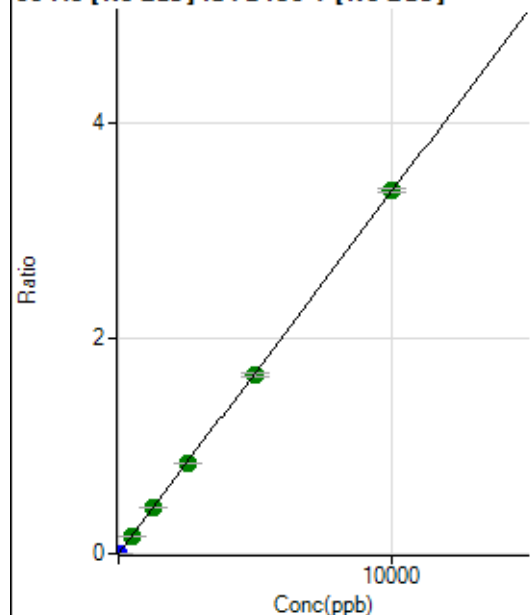
$$DL = 0.01435$$

$$BEC = 0.01551$$

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	114.45	0.0000	P	27.0
2	☐	5.000	3.948	15367.49	0.0013	P	0.7
3	☐	500.000	502.113	1898420.18	0.1687	A	0.2
4	☐	1250.000	1285.706	4714646.56	0.4320	A	0.9
5	☐	2500.000	2488.935	8994511.53	0.8362	A	0.5
6	☐	5000.000	4953.073	17450395.71	1.6640	A	1.9
7	☐	10000.000	10021.661	34762078.65	3.3668	A	1.0
8	☐			16091.97	0.0016	P	19.3

$$y = 3.3596\text{E-}004 * x + 9.8772\text{E-}006$$

$$R = 1.0000$$

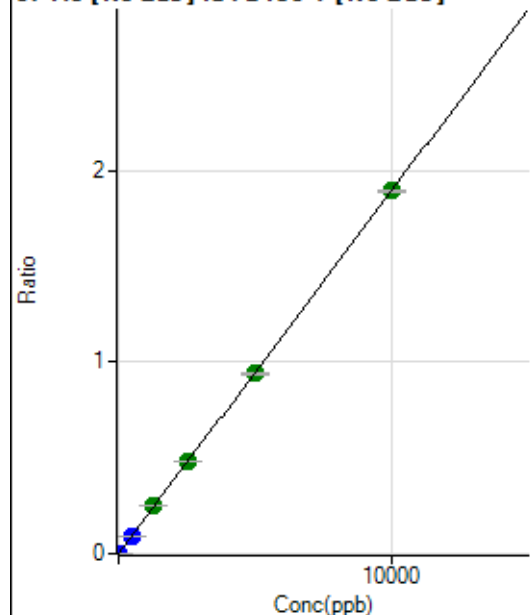
$$DL = 0.02383$$

$$BEC = 0.0294$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25.56	0.0000	P	20.8
2	☐	5.000	3.998	8740.60	0.0008	P	1.7
3	☐	500.000	490.541	1046379.72	0.0930	P	0.4
4	☐	1250.000	1302.431	2694406.16	0.2469	A	0.1
5	☐	2500.000	2533.808	5166149.26	0.4803	A	1.1
6	☐	5000.000	4971.885	9883380.48	0.9424	A	1.5
7	☐	10000.000	9999.525	19569982.35	1.8954	A	0.9
8	☐			8990.63	0.0009	P	18.8

$$y = 1.8955\text{E-}004 * x + 2.2005\text{E-}006$$

$$R = 1.0000$$

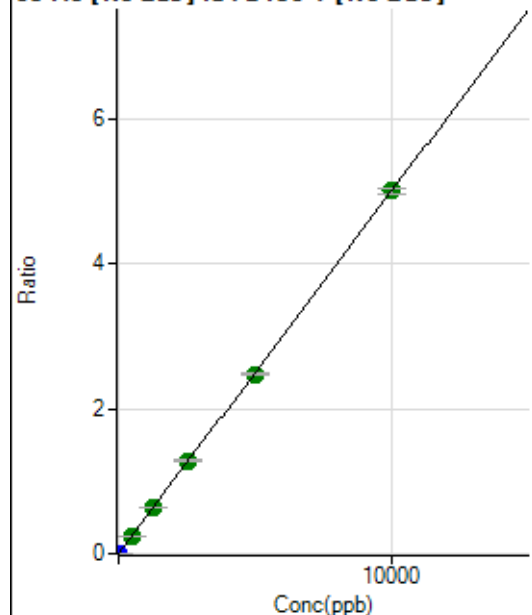
$$DL = 0.007241$$

$$BEC = 0.01161$$

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	76.67	0.0000	P	33.8
2	☐	5.000	3.887	22412.65	0.0019	P	2.0
3	☐	500.000	500.600	2814993.99	0.2502	A	0.7
4	☐	1250.000	1266.351	6906189.83	0.6328	A	0.4
5	☐	2500.000	2556.376	13739306.05	1.2774	A	1.9
6	☐	5000.000	4952.932	25957494.61	2.4750	A	1.0
7	☐	10000.000	10007.367	51630275.34	5.0007	A	1.4
8	☐			22839.11	0.0023	P	16.5

$$y = 4.9971\text{E-}004 * x + 6.5564\text{E-}006$$

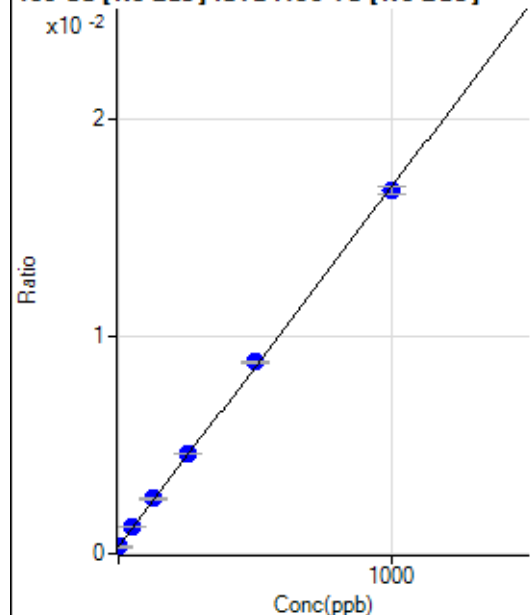
$$R = 1.0000$$

$$DL = 0.0133$$

$$BEC = 0.01312$$

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	3050.37	0.0003	P	2.6
2	☐	1.000	-0.774	2983.69	0.0003	P	1.3
3	☐	50.000	54.076	11320.30	0.0012	P	1.7
4	☐	125.000	134.105	23530.25	0.0025	P	2.5
5	☐	250.000	260.076	43051.42	0.0046	P	0.4
6	☐	500.000	514.056	79867.56	0.0088	P	1.3
7	☐	1000.000	989.113	153792.30	0.0167	P	2.2
8	☐			2523.59	0.0003	P	1.5

$$y = 1.6525\text{E-}005 * x + 3.2338\text{E-}004$$

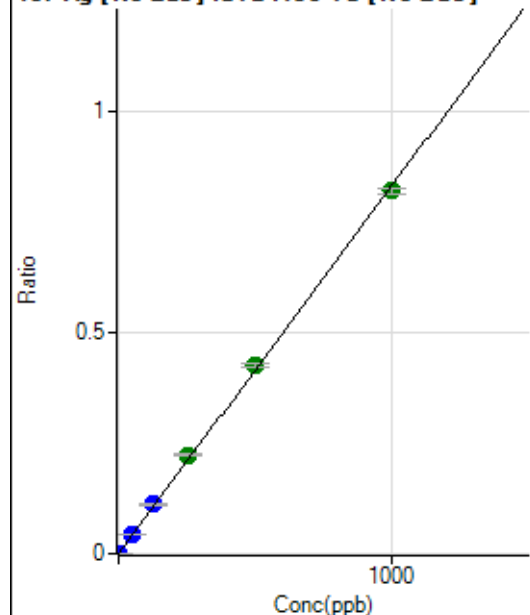
$$R = 0.9998$$

$$DL = 1.529$$

$$BEC = 19.57$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	64.44	0.0000	P	33.9
2	☐	1.000	0.869	6997.38	0.0007	P	1.9
3	☐	50.000	52.626	406431.59	0.0437	P	2.1
4	☐	125.000	134.009	1031097.76	0.1113	P	1.9
5	☐	250.000	267.160	2066434.06	0.2218	A	1.9
6	☐	500.000	514.000	3865252.51	0.4268	A	1.5
7	☐	1000.000	987.452	7565028.57	0.8199	A	1.8
8	☐			4091.80	0.0005	P	7.0

$$y = 8.3031\text{E-}004 * x + 6.8353\text{E-}006$$

$$R = 0.9997$$

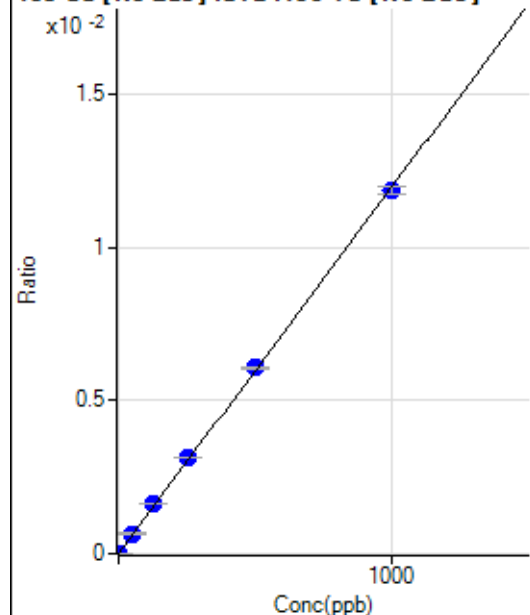
$$DL = 0.008373$$

$$BEC = 0.008232$$

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	6.66	0.0000	P	86.4
2	☐	1.000	1.044	126.67	0.0000	P	18.2
3	☐	50.000	55.057	6134.75	0.0007	P	4.3
4	☐	125.000	136.720	15170.64	0.0016	P	3.4
5	☐	250.000	263.657	29412.55	0.0032	P	0.9
6	☐	500.000	508.378	55128.76	0.0061	P	1.3
7	☐	1000.000	990.679	109438.26	0.0119	P	2.2
8	☐			152.23	0.0000	P	16.2

$$y = 1.1972\text{E-}005 * x + 7.0557\text{E-}007$$

$$R = 0.9998$$

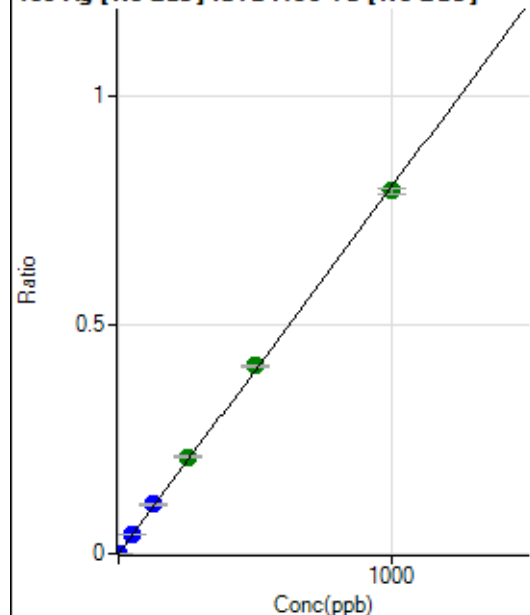
$$DL = 0.1528$$

$$BEC = 0.05894$$

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	40.00	0.0000	P	14.5
2	☐	1.000	0.856	6629.43	0.0007	P	3.8
3	☐	50.000	52.898	394215.05	0.0424	P	1.5
4	☐	125.000	134.059	995270.94	0.1074	P	1.8
5	☐	250.000	264.297	1972651.13	0.2117	A	0.7
6	☐	500.000	511.869	3714421.71	0.4101	A	1.2
7	☐	1000.000	989.214	7312482.67	0.7925	A	1.8
8	☐			4010.64	0.0005	P	5.6

$$y = 8.0116\text{E-}004 * x + 4.2406\text{E-}006$$

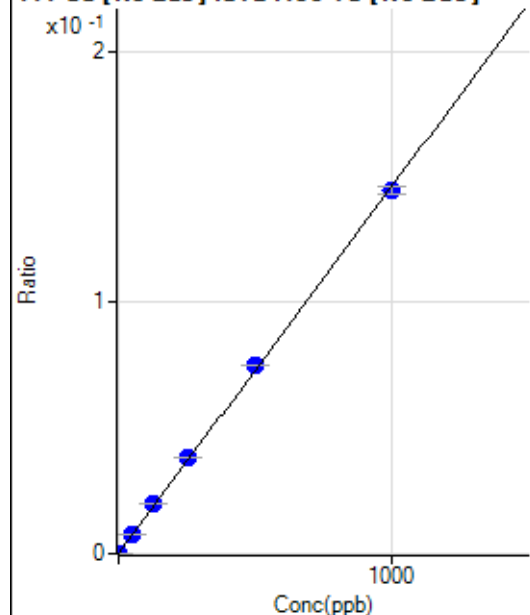
$$R = 0.9998$$

$$DL = 0.002303$$

$$BEC = 0.005293$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	613.19	0.0001	P	2.0
2	☐	1.000	0.870	1842.59	0.0002	P	4.4
3	☐	50.000	53.492	73170.72	0.0079	P	1.4
4	☐	125.000	135.937	184291.05	0.0199	P	3.0
5	☐	250.000	261.235	355563.55	0.0382	P	0.5
6	☐	500.000	513.295	678650.23	0.0749	P	0.4
7	☐	1000.000	989.002	1331523.60	0.1443	P	2.0
8	☐			1549.34	0.0002	P	4.5

$$y = 1.4585\text{E-}004 * x + 6.5007\text{E-}005$$

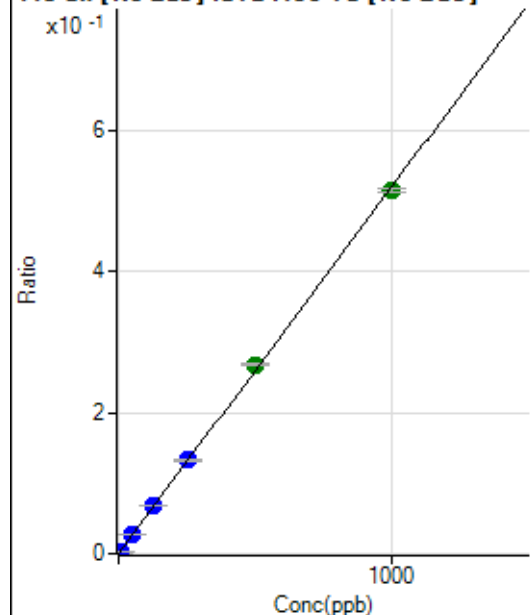
$$R = 0.9998$$

$$DL = 0.02638$$

$$BEC = 0.4457$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	541.13	0.0001	P	4.2
2	☐	5.000	4.347	22273.78	0.0023	P	0.9
3	☐	50.000	51.928	251747.52	0.0271	P	1.5
4	☐	125.000	130.515	629547.79	0.0679	P	2.1
5	☐	250.000	254.610	1234280.48	0.1325	P	0.6
6	☐	500.000	516.281	2432544.50	0.2686	A	1.8
7	☐	1000.000	989.924	4751714.48	0.5149	A	1.0
8	☐			5066.56	0.0006	P	4.9

$$y = 5.2013\text{E-}004 * x + 5.7368\text{E-}005$$

$$R = 0.9998$$

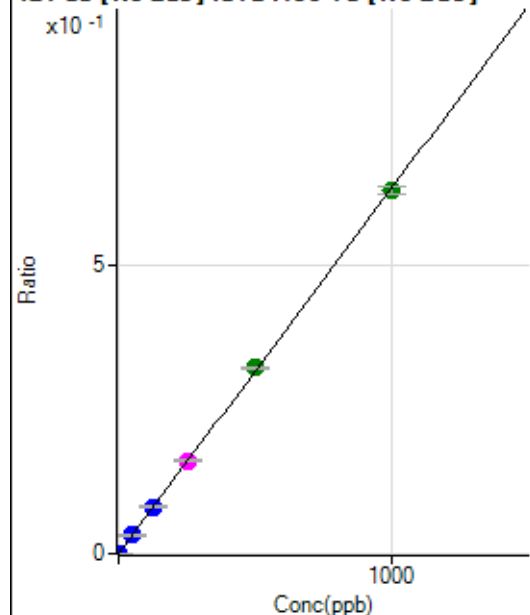
$$DL = 0.01386$$

$$BEC = 0.1103$$

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	44.45	0.0000	P	30.5
2	☐	2.000	1.716	10511.91	0.0011	P	0.9
3	☐	50.000	50.316	297202.48	0.0320	P	2.4
4	☐	125.000	128.136	754006.94	0.0814	P	2.5
5	☐	250.000	253.893	1502384.08	0.1612	M	1.6
6	☐	500.000	510.467	2936089.05	0.3242	A	1.1
7	☐	1000.000	993.386	5820762.62	0.6309	A	2.0
8	☐			3760.57	0.0004	P	10.9

$$y = 6.3506\text{E-}004 * x + 4.7137\text{E-}006$$

$$R = 0.9999$$

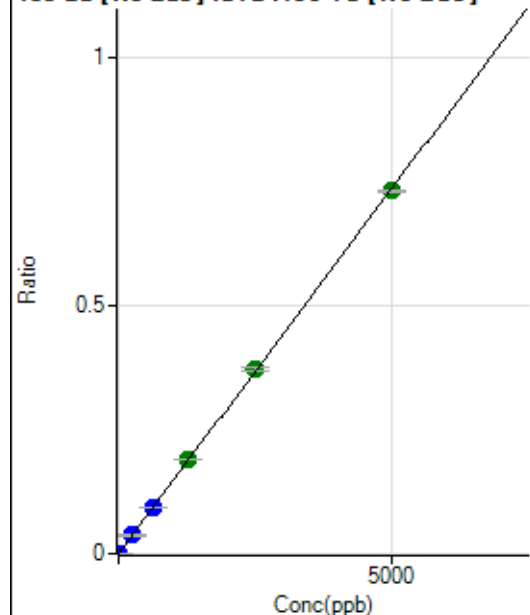
$$DL = 0.006792$$

$$BEC = 0.007422$$

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	53.33	0.0000	P	38.8
2	☐	10.000	8.454	11983.18	0.0012	P	2.4
3	☐	250.000	252.662	345247.10	0.0371	P	2.3
4	☐	625.000	636.678	866686.67	0.0935	P	2.5
5	☐	1250.000	1292.285	1768707.98	0.1899	A	0.5
6	☐	2500.000	2527.191	3362617.59	0.3713	A	2.4
7	☐	5000.000	4974.244	6743401.01	0.7308	A	0.7
8	☐			6004.76	0.0007	P	5.0

$$y = 1.4691\text{E-}004 * x + 5.6499\text{E-}006$$

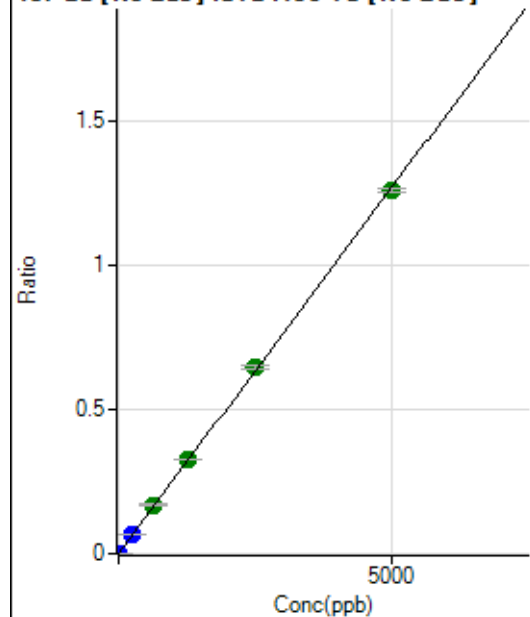
$$R = 0.9999$$

$$DL = 0.04479$$

$$BEC = 0.03846$$

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	71.11	0.0000	P	30.7
2	☐	10.000	8.666	21214.51	0.0022	P	1.0
3	☐	250.000	257.859	609076.25	0.0655	P	2.8
4	☐	625.000	665.014	1564955.65	0.1689	A	2.6
5	☐	1250.000	1281.410	3032009.47	0.3255	A	0.8
6	☐	2500.000	2556.391	5880317.41	0.6493	A	1.7
7	☐	5000.000	4958.560	11620635.66	1.2594	A	1.1
8	☐			10564.29	0.0012	P	3.4

$$y = 2.5398E-004 * x + 7.5420E-006$$

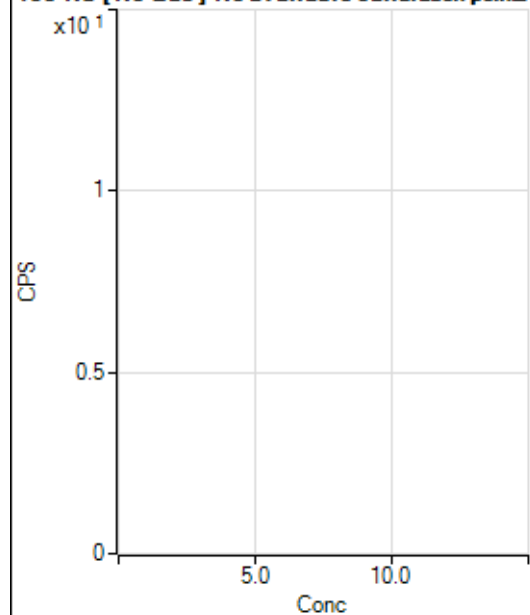
$$R = 0.9999$$

$$DL = 0.02738$$

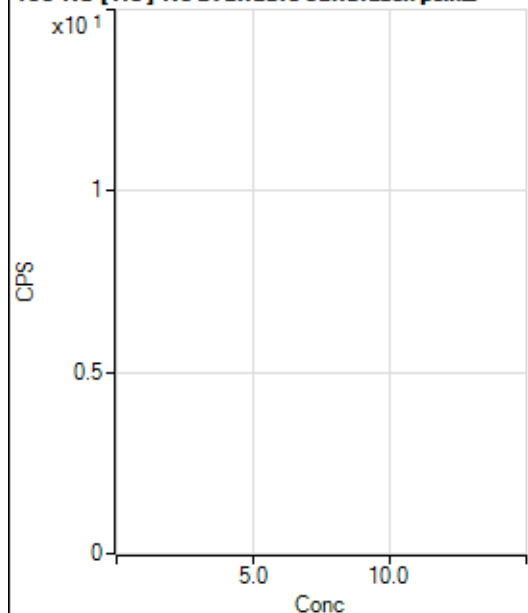
$$BEC = 0.0297$$

Weight: <None>

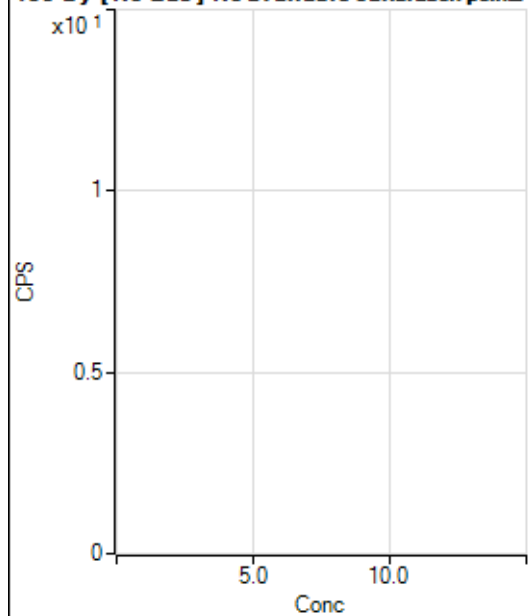
Min Conc: 0

150 Nd [No Gas] No available calibration points

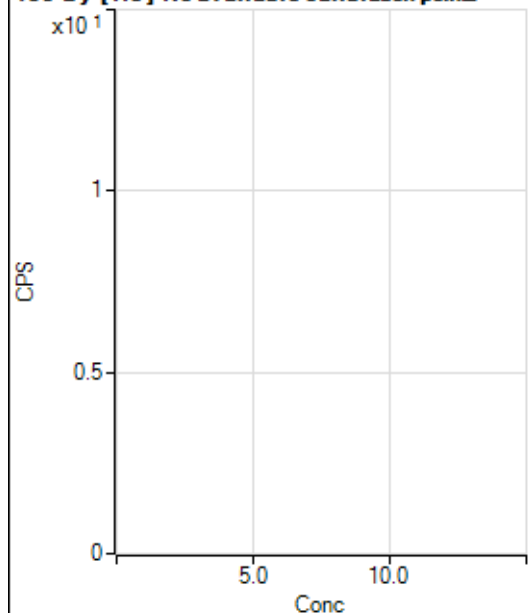
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	69.3
2	☐			12.22		P	68.7
3	☐			25.56		P	32.8
4	☐			60.00		P	11.1
5	☐			92.22		P	24.6
6	☐			170.00		P	10.4
7	☐			380.01		P	16.2
8	☐			313.34		P	14.0

150 Nd [He] No available calibration points

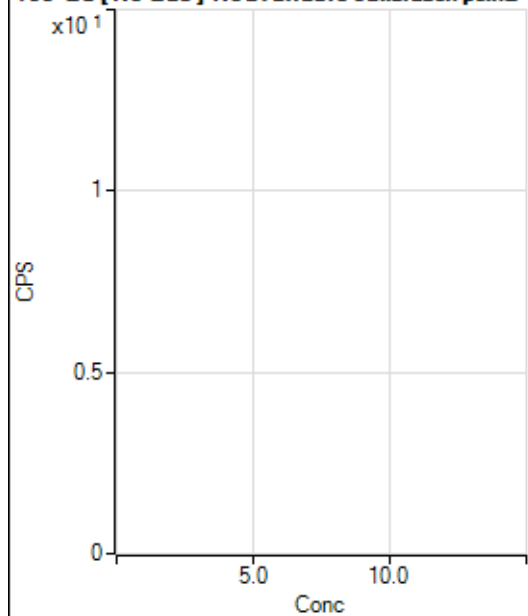
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐			0.00		P	
3	☐			3.33		P	100.
4	☐			6.67		P	50.0
5	☐			10.00		P	33.3
6	☐			30.00		P	48.4
7	☐			63.33		P	19.0
8	☐			90.00		P	39.2

156 Dy [No Gas] No available calibration points

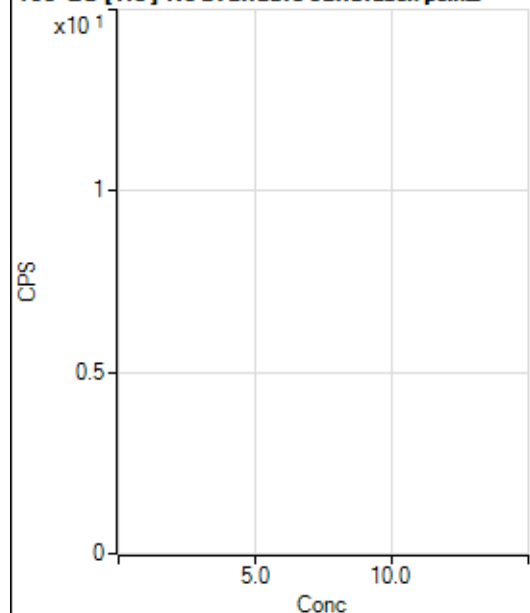
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐			12.22		P	41.7
3	☐			24.44		P	47.9
4	☐			57.78		P	16.6
5	☐			101.11		P	27.5
6	☐			205.56		P	4.1
7	☐			408.90		P	9.4
8	☐			1857.93		P	3.1

156 Dy [He] No available calibration points

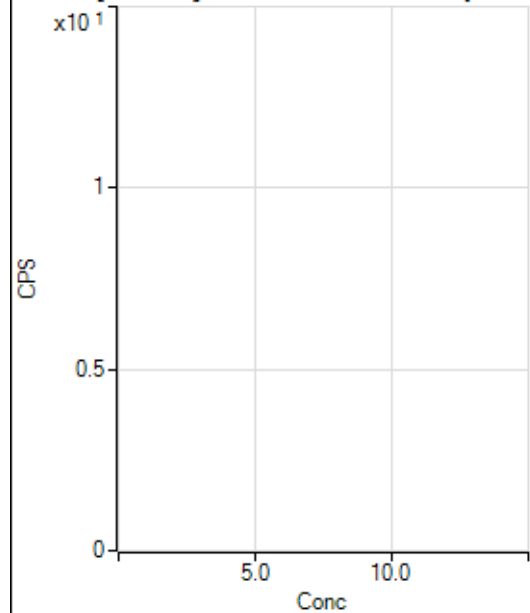
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			3.33		P	173.
3	☐			17.78		P	21.7
4	☐			27.78		P	18.3
5	☐			58.89		P	17.3
6	☐			113.34		P	27.0
7	☐			178.89		P	13.1
8	☐			932.27		P	4.3

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

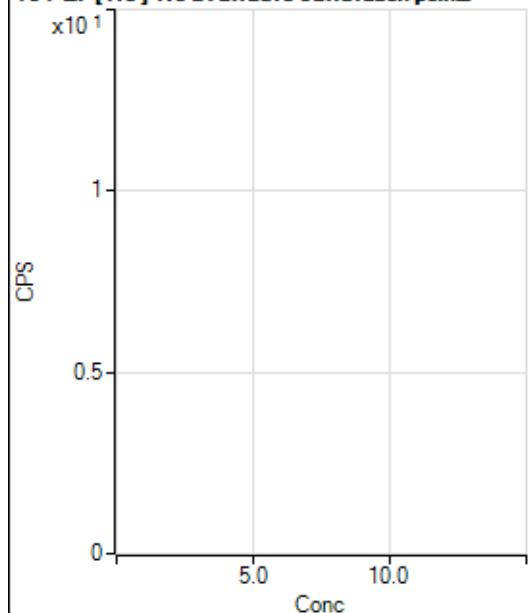
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			77.78		P	15.0
2	☐			81.11		P	20.7
3	☐			94.45		P	29.4
4	☐			114.45		P	7.3
5	☐			185.56		P	28.6
6	☐			241.12		P	10.5
7	☐			422.23		P	1.2
8	☐			2094.63		P	4.0

160 Gd [He] No available calibration points

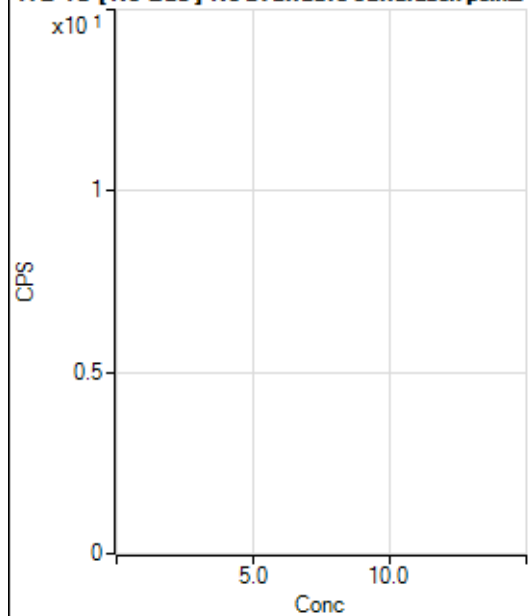
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			107.78		P	22.4
2	☐			116.67		P	15.9
3	☐			126.67		P	25.4
4	☐			133.34		P	28.4
5	☐			131.11		P	19.1
6	☐			183.34		P	22.8
7	☐			305.56		P	11.4
8	☐			1080.06		P	5.7

164 Er [No Gas] No available calibration points

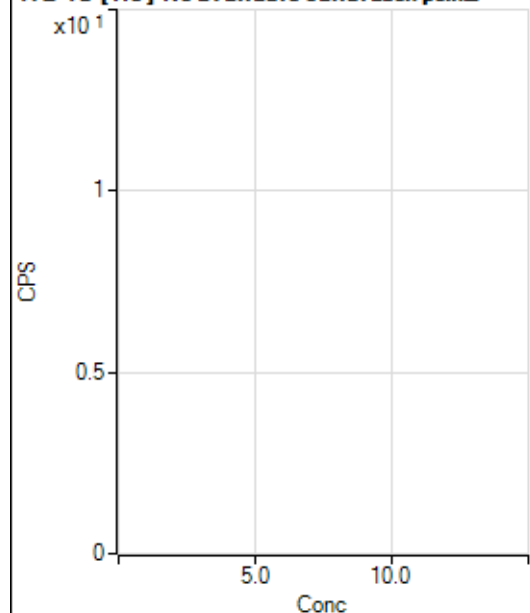
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			86.67		P	26.9
2	☐			64.44		P	25.5
3	☐			73.33		P	20.8
4	☐			80.00		P	60.1
5	☐			95.56		P	2.0
6	☐			121.11		P	1.6
7	☐			171.11		P	14.4
8	☐			290.00		P	7.5

164 Er [He] No available calibration points

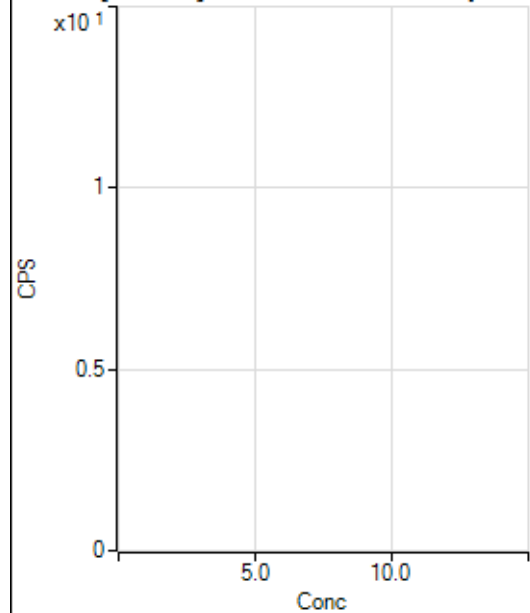
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	36.1
2	☐			38.89		P	13.1
3	☐			28.89		P	48.0
4	☐			25.56		P	54.3
5	☐			37.78		P	22.2
6	☐			70.00		P	29.0
7	☐			77.78		P	8.9
8	☐			95.56		P	8.8

172 Yb [No Gas] No available calibration points

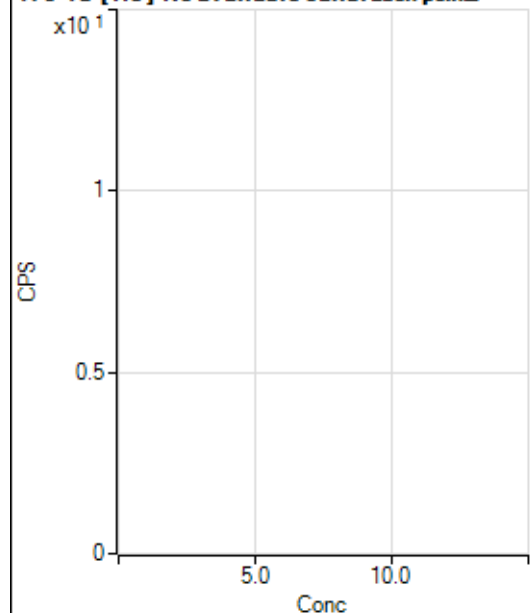
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			58.89		P	8.6
2	☐			50.00		P	29.1
3	☐			64.45		P	6.0
4	☐			68.89		P	24.4
5	☐			96.67		P	9.1
6	☐			147.78		P	9.4
7	☐			198.89		P	17.0
8	☐			177.78		P	14.1

172 Yb [He] No available calibration points

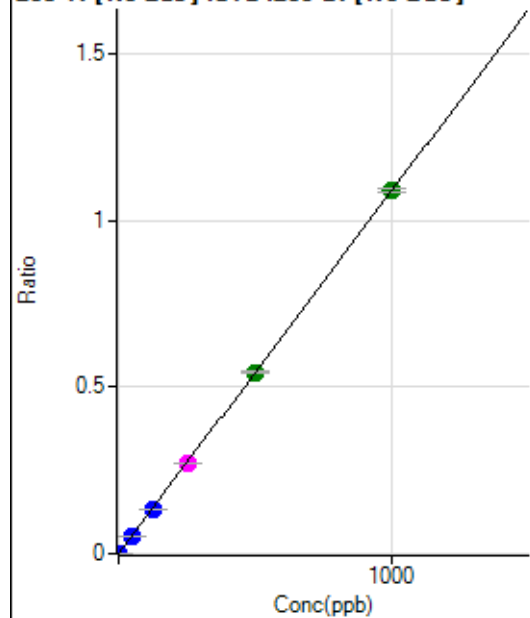
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	17.3
2	☐			34.44		P	43.6
3	☐			38.89		P	42.3
4	☐			45.56		P	21.1
5	☐			35.56		P	28.6
6	☐			80.00		P	8.3
7	☐			144.45		P	24.7
8	☐			84.45		P	30.1

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1218.96		P	1.0
2	☐			1145.62		P	5.7
3	☐			2453.59		P	6.5
4	☐			4583.06		P	1.4
5	☐			7837.96		P	1.3
6	☐			14324.55		P	0.8
7	☐			27830.56		P	1.9
8	☐			1070.06		P	5.6

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8836.38		P	1.4
2	☐			8583.98		P	2.8
3	☐			8798.57		P	1.8
4	☐			9648.04		P	1.9
5	☐			10921.28		P	1.5
6	☐			13991.94		P	2.2
7	☐			19760.47		P	0.7
8	☐			7809.04		P	1.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	86.66	0.0000	P	9.1
2	☐	1.000	0.763	5501.21	0.0008	P	1.3
3	☐	50.000	46.794	319621.09	0.0509	P	2.5
4	☐	125.000	121.031	821077.08	0.1316	P	0.4
5	☐	250.000	249.028	1677376.92	0.2707	M	1.8
6	☐	500.000	500.981	3318879.36	0.5446	A	1.1
7	☐	1000.000	1000.409	6530588.31	1.0875	A	1.0
8	☐			2834.81	0.0005	P	4.6

$$y = 0.0011 * x + 1.3569E-005$$

$$R = 1.0000$$

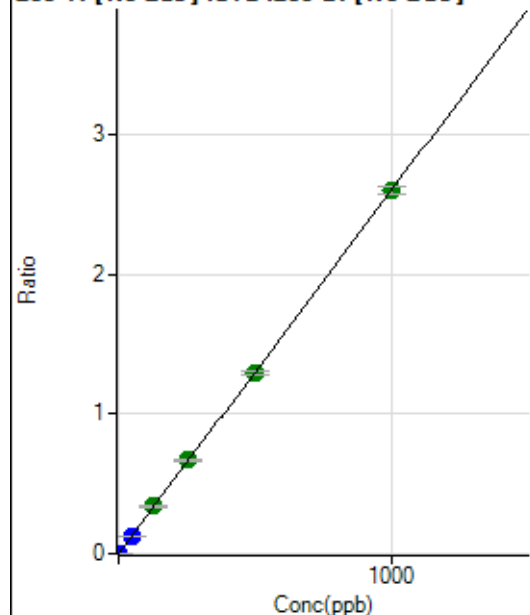
$$DL = 0.003418$$

$$BEC = 0.01248$$

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	202.22	0.0000	P	7.5
2	☐	1.000	0.766	13194.58	0.0020	P	1.9
3	☐	50.000	47.943	783490.90	0.1247	P	1.4
4	☐	125.000	130.769	2121927.21	0.3401	A	2.4
5	☐	250.000	257.511	4147878.79	0.6696	A	1.5
6	☐	500.000	498.463	7898930.85	1.2962	A	1.7
7	☐	1000.000	998.273	15586203.52	2.5958	A	2.3
8	☐			6732.96	0.0013	P	7.0

$$y = 0.0026 * x + 3.1582E-005$$

$$R = 0.9999$$

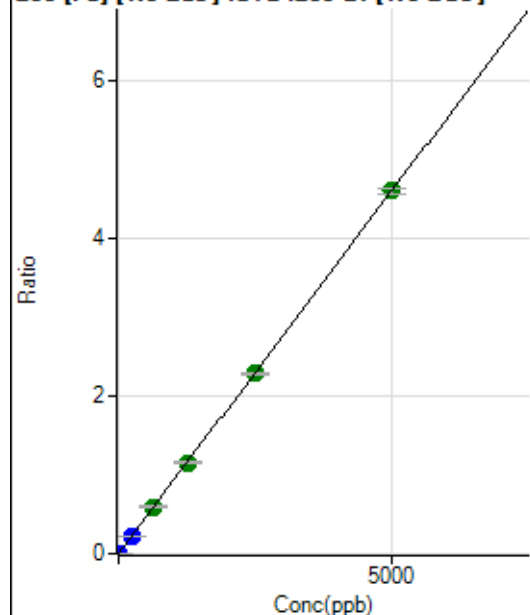
$$DL = 0.002745$$

$$BEC = 0.01215$$

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	224.45	0.0000	P	4.6
2	☐	1.000	0.738	4646.44	0.0007	P	1.4
3	☐	250.000	234.200	1351047.37	0.2151	P	1.2
4	☐	625.000	644.529	3693165.12	0.5918	A	1.8
5	☐	1250.000	1258.731	7158847.74	1.1557	A	1.3
6	☐	2500.000	2484.915	13904213.41	2.2816	A	1.0
7	☐	5000.000	5003.709	27587140.98	4.5942	A	1.5
8	☐			20738.04	0.0039	P	4.4

$$y = 9.1815E-004 * x + 3.5067E-005$$

$$R = 1.0000$$

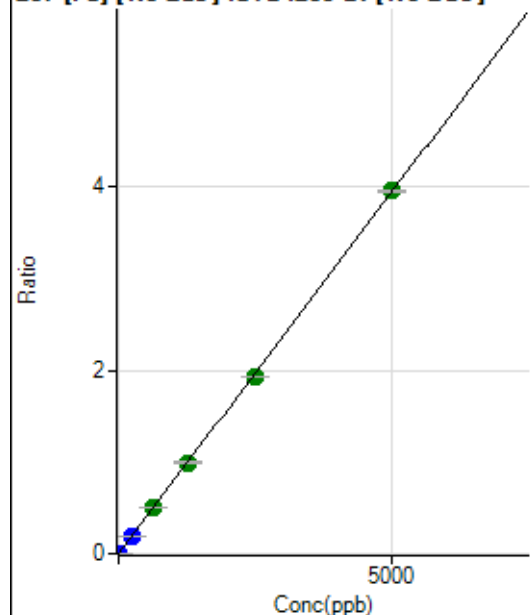
$$DL = 0.005259$$

$$BEC = 0.03819$$

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	187.78	0.0000	P	7.3
2	☐	1.000	0.774	4164.06	0.0006	P	1.3
3	☐	250.000	238.939	1182016.00	0.1881	P	1.8
4	☐	625.000	646.947	3178445.20	0.5094	A	1.4
5	☐	1250.000	1262.387	6157348.80	0.9939	A	0.5
6	☐	2500.000	2451.127	11760254.27	1.9298	A	0.6
7	☐	5000.000	5019.149	23732089.92	3.9515	A	0.7
8	☐			17735.67	0.0033	P	3.3

$$y = 7.8729E-004 * x + 2.9336E-005$$

$$R = 0.9999$$

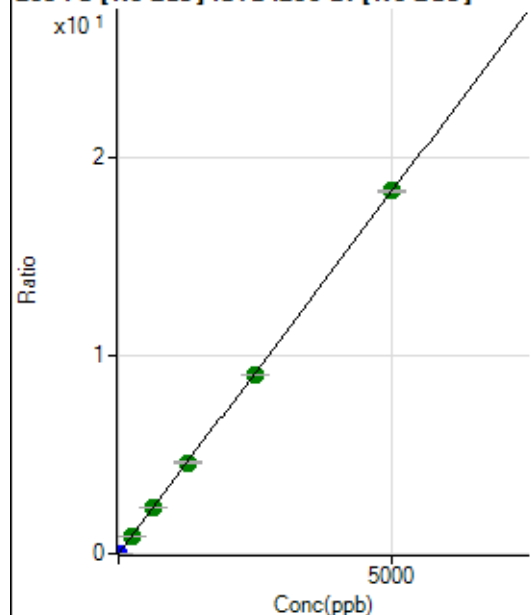
$$DL = 0.00815$$

$$BEC = 0.03726$$

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	855.58	0.0001	P	8.4
2	☐	1.000	0.753	18810.00	0.0029	P	1.4
3	☐	250.000	245.256	5628975.02	0.8960	A	1.0
4	☐	625.000	642.599	14649357.84	2.3475	A	0.8
5	☐	1250.000	1259.078	28492731.04	4.5995	A	0.4
6	☐	2500.000	2469.972	54986866.69	9.0229	A	0.3
7	☐	5000.000	5010.782	109924321.7	18.3044	A	0.2
8	☐			83080.12	0.0154	P	5.2

$$y = 0.0037 * x + 1.3366E-004$$

$$R = 1.0000$$

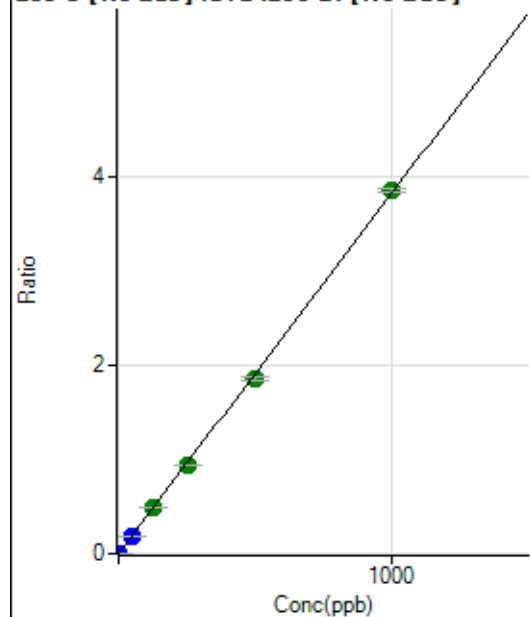
$$DL = 0.009231$$

$$BEC = 0.03659$$

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	87.78	0.0000	P	16.0
2	☐	1.000	0.752	18879.70	0.0029	P	1.8
3	☐	50.000	45.791	1102075.40	0.1754	P	0.7
4	☐	125.000	125.962	3011315.82	0.4826	A	0.4
5	☐	250.000	246.739	5855204.36	0.9452	A	0.9
6	☐	500.000	487.505	11381056.64	1.8676	A	1.9
7	☐	1000.000	1007.153	23167906.88	3.8582	A	1.2
8	☐			13125.92	0.0024	P	7.7

$$y = 0.0038 * x + 1.3691E-005$$

$$R = 0.9999$$

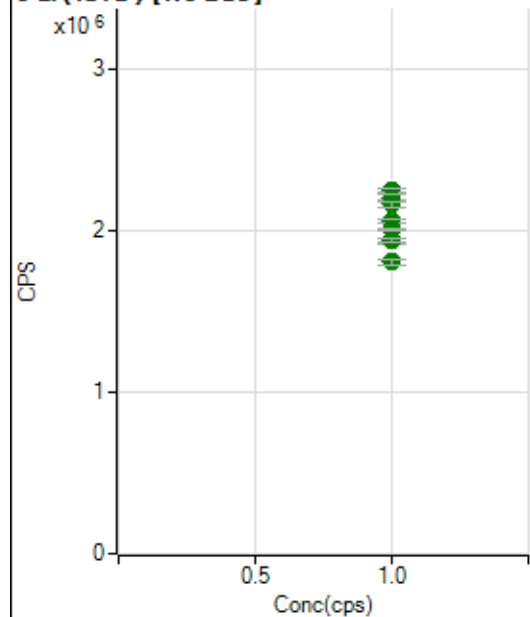
$$DL = 0.001713$$

$$BEC = 0.003574$$

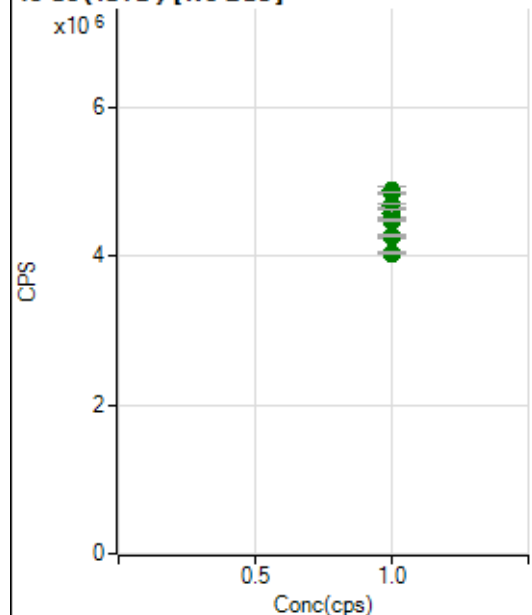
Weight: <None>

Min Conc: 0

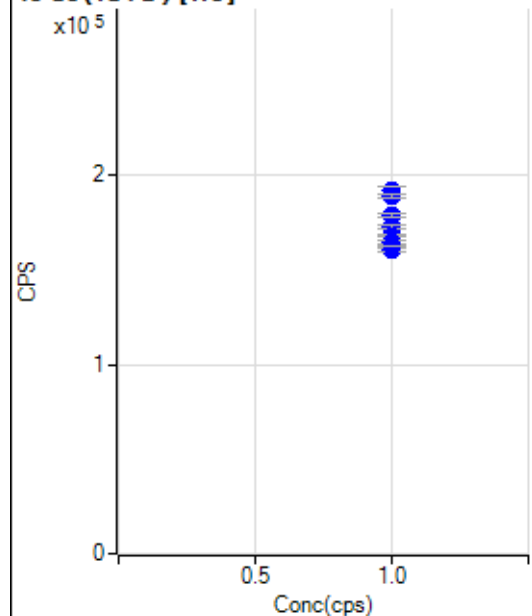
6 Li (ISTD) [No Gas]



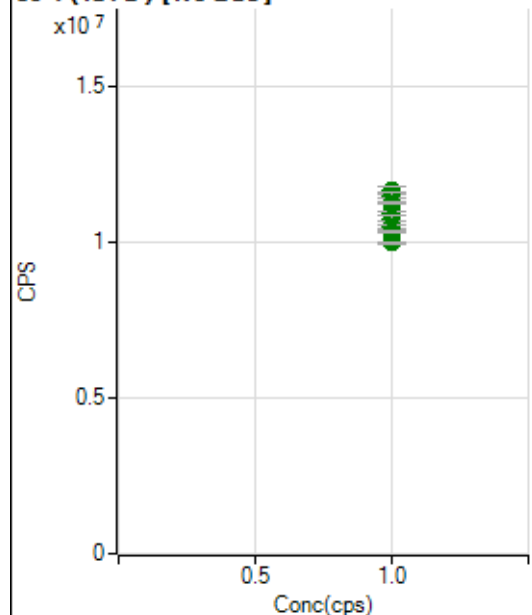
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2249971.08		A	1.0
2	☐	1.000		2208348.54		A	1.5
3	☐	1.000		2164698.43		A	1.6
4	☐	1.000		2060669.92		A	1.1
5	☐	1.000		2013041.18		A	0.6
6	☐	1.000		1940786.07		A	1.7
7	☐	1.000		1944886.38		A	1.6
8	☐	1.000		1808576.78		A	2.1

45 Sc (ISTD) [No Gas]

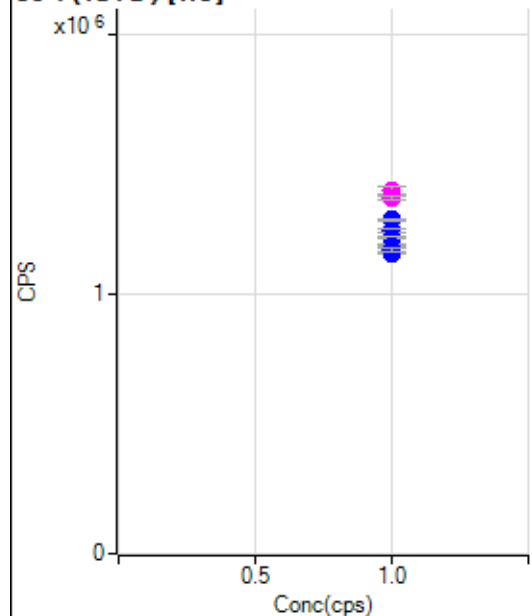
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4877099.44		A	2.1
2	☐	1.000		4855743.26		A	0.4
3	☐	1.000		4680758.54		A	1.1
4	☐	1.000		4567325.28		A	2.4
5	☐	1.000		4484936.84		A	0.9
6	☐	1.000		4255352.37		A	0.7
7	☐	1.000		4273812.68		A	0.4
8	☐	1.000		4039910.25		A	0.8

45 Sc (ISTD) [He]

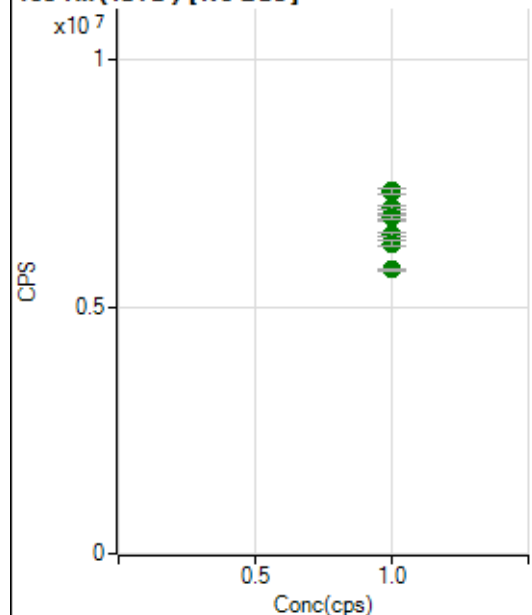
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		191987.17		P	2.2
2	☐	1.000		188965.61		P	1.0
3	☐	1.000		179160.51		P	0.6
4	☐	1.000		173101.05		P	0.8
5	☐	1.000		168392.52		P	0.6
6	☐	1.000		164614.38		P	1.0
7	☐	1.000		160780.12		P	1.8
8	☐	1.000		162657.55		P	0.3

89 Y (ISTD) [No Gas]

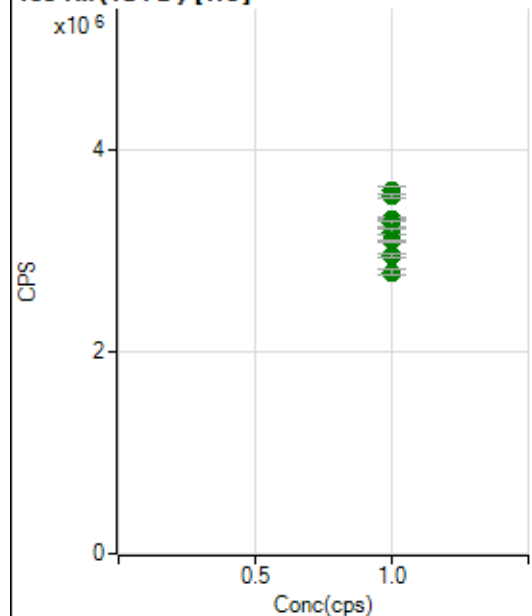
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11634103.99		A	2.3
2	☐	1.000		11500132.05		A	1.3
3	☐	1.000		11253305.95		A	1.1
4	☐	1.000		10913751.99		A	1.6
5	☐	1.000		10757182.13		A	1.5
6	☐	1.000		10488289.57		A	1.2
7	☐	1.000		10325310.61		A	0.9
8	☐	1.000		9962993.74		A	0.9

89 Y (ISTD) [He]

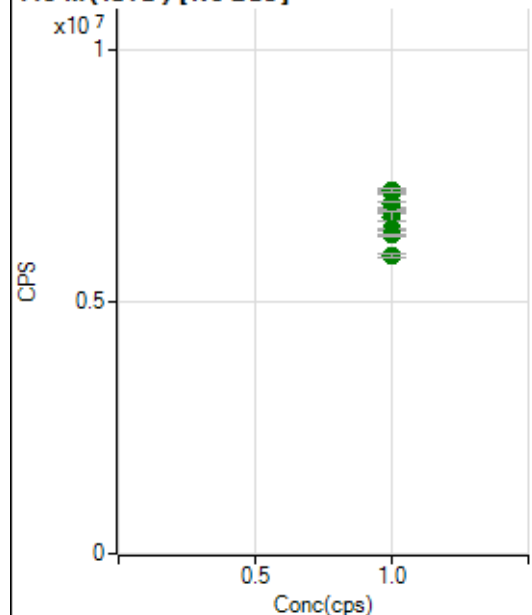
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1395740.93		M	2.0
2	☐	1.000		1367618.51		M	1.3
3	☐	1.000		1284256.35		P	0.4
4	☐	1.000		1244029.13		P	1.0
5	☐	1.000		1215408.98		P	0.7
6	☐	1.000		1186483.90		P	0.5
7	☐	1.000		1156950.63		P	0.6
8	☐	1.000		1169186.04		P	0.9

103 Rh (ISTD) [No Gas]

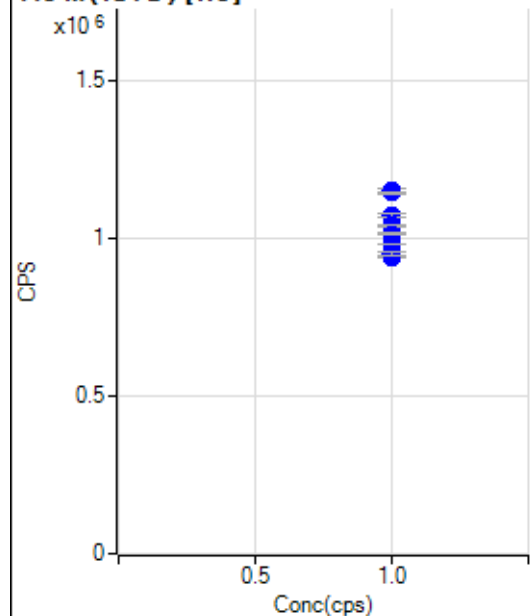
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7342414.33		A	1.3
2	☐	1.000		7353635.38		A	1.3
3	☐	1.000		7024018.30		A	1.2
4	☐	1.000		6820382.26		A	2.5
5	☐	1.000		6816072.26		A	1.2
6	☐	1.000		6472650.46		A	1.0
7	☐	1.000		6290303.66		A	1.6
8	☐	1.000		5757310.95		A	0.6

103 Rh (ISTD) [He]

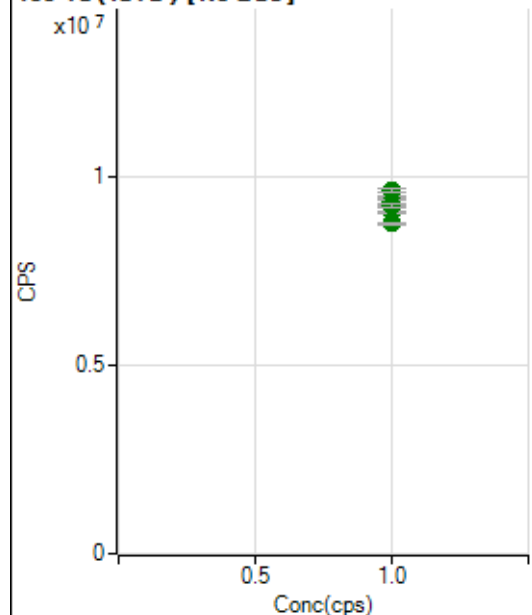
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3588209.22		A	2.0
2	☐	1.000		3538011.16		A	1.0
3	☐	1.000		3317831.69		A	0.9
4	☐	1.000		3265638.35		A	1.6
5	☐	1.000		3182149.92		A	1.7
6	☐	1.000		3091292.94		A	0.6
7	☐	1.000		2945488.70		A	0.8
8	☐	1.000		2785542.25		A	1.6

115 In (ISTD) [No Gas]

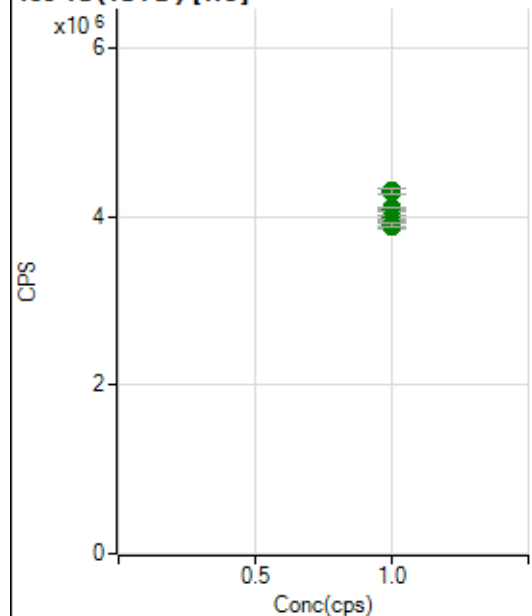
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7175838.79		A	1.1
2	☐	1.000		7212846.61		A	1.1
3	☐	1.000		6943622.70		A	1.9
4	☐	1.000		6806785.28		A	1.1
5	☐	1.000		6705234.71		A	2.7
6	☐	1.000		6449168.11		A	0.8
7	☐	1.000		6330154.81		A	0.6
8	☐	1.000		5938825.50		A	1.2

115 In (ISTD) [He]

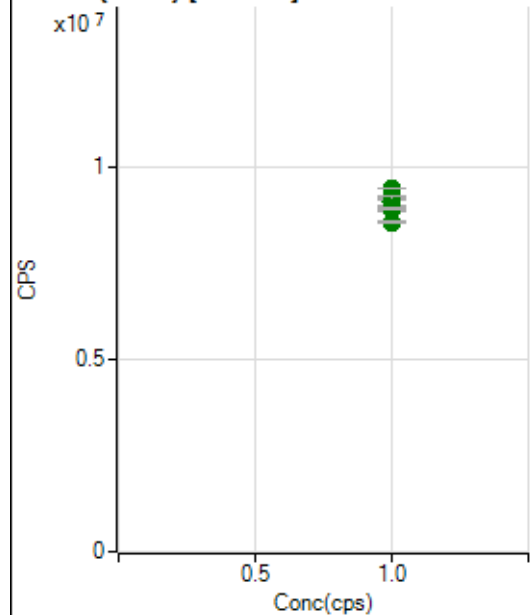
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1149886.88		P	1.2
2	☐	1.000		1143449.05		P	0.6
3	☐	1.000		1074987.00		P	1.2
4	☐	1.000		1039752.39		P	0.4
5	☐	1.000		1013797.58		P	0.8
6	☐	1.000		980817.44		P	0.4
7	☐	1.000		941315.45		P	0.7
8	☐	1.000		952082.54		P	1.5

159 Tb (ISTD) [No Gas]

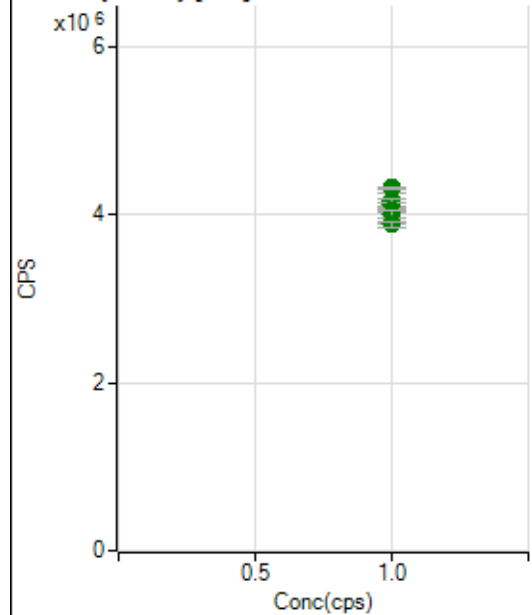
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9432636.11		A	0.3
2	☐	1.000		9606810.55		A	1.2
3	☐	1.000		9302922.50		A	2.2
4	☐	1.000		9268416.32		A	1.9
5	☐	1.000		9316425.14		A	1.2
6	☐	1.000		9057324.24		A	0.7
7	☐	1.000		9228156.25		A	1.2
8	☐	1.000		8750595.57		A	0.5

159 Tb (ISTD) [He]

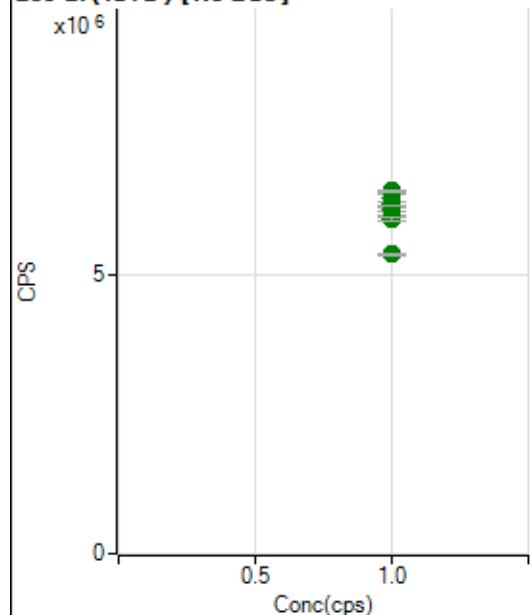
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4298844.38		A	1.7
2	☐	1.000		4305310.49		A	1.5
3	☐	1.000		4099630.91		A	0.8
4	☐	1.000		4075311.67		A	1.1
5	☐	1.000		3995267.37		A	1.4
6	☐	1.000		3952796.89		A	0.4
7	☐	1.000		3890173.90		A	2.3
8	☐	1.000		3904529.42		A	1.3

165 Ho (ISTD) [No Gas]

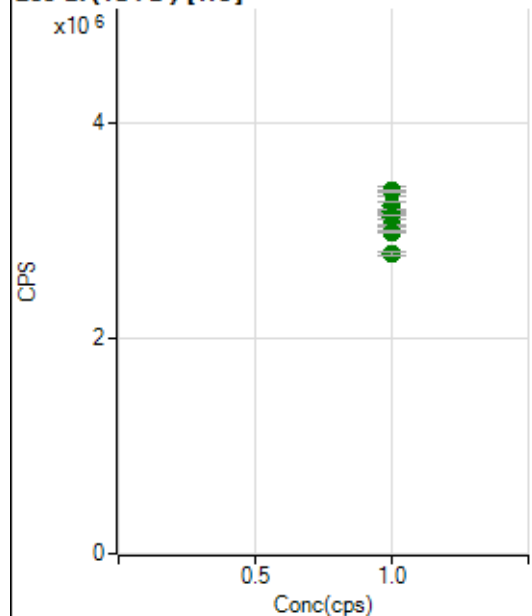
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9215170.98		A	1.4
2	☐	1.000		9453360.69		A	0.2
3	☐	1.000		9130197.23		A	2.4
4	☐	1.000		9140665.91		A	2.5
5	☐	1.000		8943732.57		A	1.5
6	☐	1.000		8902365.98		A	0.4
7	☐	1.000		8947779.10		A	1.0
8	☐	1.000		8588005.84		A	0.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4296957.92		A	1.6
2	☐	1.000		4322251.74		A	0.8
3	☐	1.000		4122869.25		A	1.2
4	☐	1.000		4168112.30		A	1.0
5	☐	1.000		4062177.68		A	1.2
6	☐	1.000		4015616.92		A	2.4
7	☐	1.000		3904190.04		A	1.1
8	☐	1.000		3892780.67		A	1.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6396097.61		A	2.4
2	☐	1.000		6521736.78		A	0.5
3	☐	1.000		6282471.78		A	1.3
4	☐	1.000		6240300.95		A	1.0
5	☐	1.000		6194859.70		A	1.7
6	☐	1.000		6094159.35		A	0.1
7	☐	1.000		6005413.80		A	1.3
8	☐	1.000		5380142.63		A	0.8

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3361448.60		A	2.5
2	☐	1.000		3364556.44		A	0.9
3	☐	1.000		3219060.09		A	2.3
4	☐	1.000		3166654.15		A	1.2
5	☐	1.000		3118058.95		A	1.0
6	☐	1.000		3043162.28		A	0.6
7	☐	1.000		2981689.43		A	0.8
8	☐	1.000		2781976.17		A	1.4

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP810313MS2.b

Acq. Date-Time 2023-10-31 11:37:27

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		8472	84717.37			1.226	5.000
24		74586	745863.19			0.985	5.000
25		9929	99294.43			1.027	5.000
26		11431	114309.06			1.219	5.000
59		78214	782138.54			1.073	5.000
113		8277	82769.64			1.181	5.000
115		105080	1050799.05			1.731	5.000
206		27839	278387.42			1.444	5.000
207		24999	249991.49			2.171	5.000
208		60076	600762.63			1.952	5.000
220		0	1.70			26.307	

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

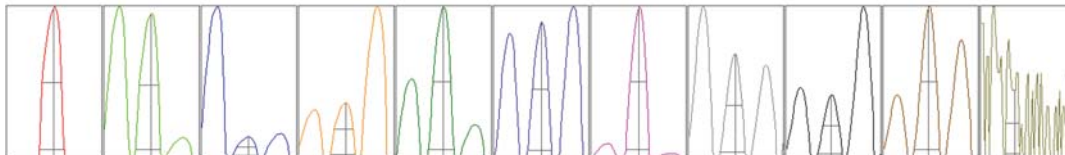
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	8558	8565	8484	8441	8311
24	74600	75482	75129	73924	73796
25	10062	9938	9963	9903	9781
26	11560	11537	11455	11389	11213
59	79238	78201	78601	78081	76949
113	8295	8322	8355	8306	8107
115	106116	105947	105446	106031	101860
206	27589	27916	28201	28207	27281
207	24565	25402	25520	25222	24287
208	59561	60801	61043	60729	58247

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	0	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	15010.02	9.00	8.90 - 9.10	
24	131580.07	24.00	23.90 - 24.10	
25	17564.98	25.00	24.90 - 25.10	
26	20217.70	26.00	25.90 - 26.10	
59	147291.80	59.00	58.90 - 59.10	
113	16965.64	113.05	112.90 - 113.10	
115	213510.64	115.05	114.90 - 115.10	
206	55579.99	206.00	205.90 - 206.10	
207	49625.25	206.95	206.90 - 207.10	
208	120030.09	207.95	207.90 - 208.10	
220	0.20	219.60	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.779	0.900	
24	0.60	0.784	0.900	
25	0.59	0.785	0.900	
26	0.60	0.782	0.900	
59	0.55	0.803	0.900	
113	0.50	0.757	0.900	
115	0.51	0.734	0.900	
206	0.50	0.779	0.900	
207	0.51	0.777	0.900	
208	0.50	0.808	0.900	
220	0.41	0.446		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.85 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.6 V	Deflect	14.2 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 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	160 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	1.5 mm	Torch V	-0.6 mm
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EM

Discriminator	4.4 mV	Analog HV	2305 V	Pulse HV	1638 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		18253	182529.38			0.726	
89		12407	124065.87			0.335	
205		20700	207000.29			0.271	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	18434	18339	18144	18228	18120
89	12445	12393	12445	12404	12345
205	20684	20785	20724	20644	20663

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.85 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.6 V	Deflect	3.6 V
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US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 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	124	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	1.5 mm	Torch V	-0.6 mm
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EM

Discriminator	4.4 mV	Analog HV	2305 V	Pulse HV	1638 V
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