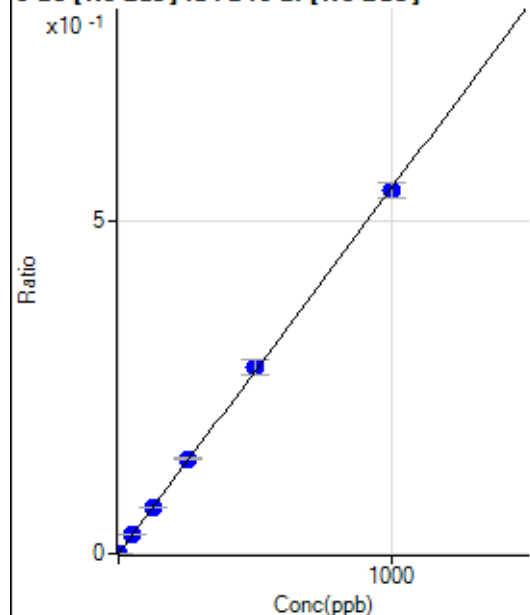


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8012221MS.b\
Analysis File: P8012221MS.batch.bin
DA Date-Time: 2021-01-24 22:49:42
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-01-22 12:17:05
2	004CALS.d	S02	2021-01-22 12:20:24
3	005CALS.d	S03	2021-01-22 12:23:40
4	006CALS.d	S04	2021-01-22 12:26:59
5	007CALS.d	S05	2021-01-22 12:30:10
6	008CALS.d	S06	2021-01-22 12:33:18
7	009CALS.d	S07	2021-01-22 12:36:16
8	011CALS.d	S08	2021-01-22 12:42:15

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	39.99	0.0000	P	33.6
2	☐	1.000	1.020	670.55	0.0006	P	4.1
3	☐	50.000	52.080	31326.19	0.0287	P	4.3
4	☐	125.000	125.489	78359.19	0.0691	P	0.7
5	☐	250.000	260.038	156937.34	0.1432	P	3.1
6	☐	500.000	508.754	314417.68	0.2801	P	8.0
7	☐	1000.000	992.948	621959.05	0.5467	P	4.2
8	☐			214.63	0.0002	P	1.7

$$y = 5.5050\text{E-}004 * x + 3.7005\text{E-}005$$

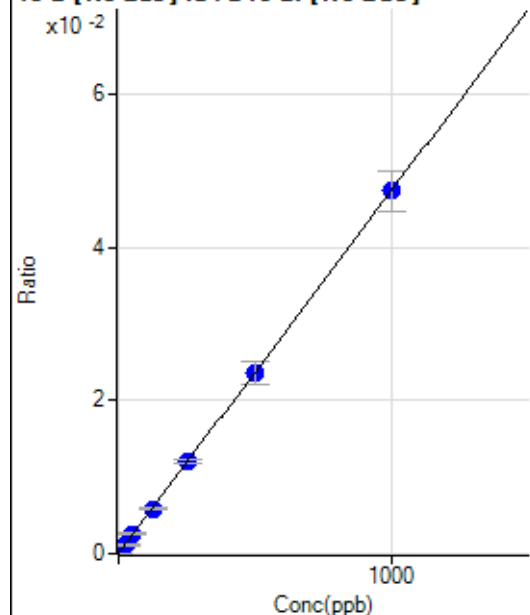
$$R = 0.9999$$

$$DL = 0.06772$$

$$BEC = 0.06722$$

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	54.66	0.0001	P	17.5
2	☐	25.000	22.941	1273.14	0.0011	P	8.2
3	☐	50.000	52.406	2763.06	0.0025	P	8.6
4	☐	125.000	123.130	6664.87	0.0059	P	6.9
5	☐	250.000	254.096	13250.02	0.0121	P	4.9
6	☐	500.000	499.547	26572.68	0.0237	P	12.8
7	☐	1000.000	999.367	53818.68	0.0474	P	11.2
8	☐			3013.72	0.0025	P	5.2

$$y = 4.7342\text{E-}005 * x + 5.0756\text{E-}005$$

$$R = 1.0000$$

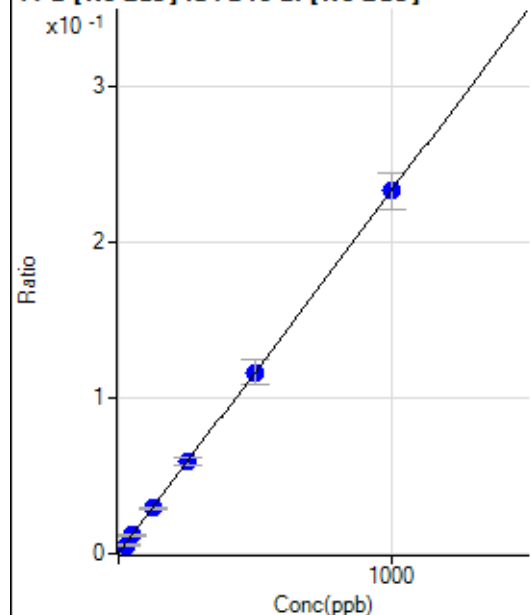
$$DL = 0.563$$

$$BEC = 1.072$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	285.28	0.0003	P	13.3
2	☐	25.000	21.762	5972.71	0.0053	P	9.5
3	☐	50.000	50.796	13195.99	0.0121	P	9.1
4	☐	125.000	123.667	32942.91	0.0291	P	7.1
5	☐	250.000	253.344	65032.14	0.0593	P	6.5
6	☐	500.000	499.403	130596.68	0.1166	P	14.1
7	☐	1000.000	999.670	264900.22	0.2330	P	10.0
8	☐			14940.63	0.0126	P	4.6

$$y = 2.3285E-004 * x + 2.6603E-004$$

R = 1.0000

DL = 0.4545

BEC = 1.142

Weight: <None>

Min Conc: 0

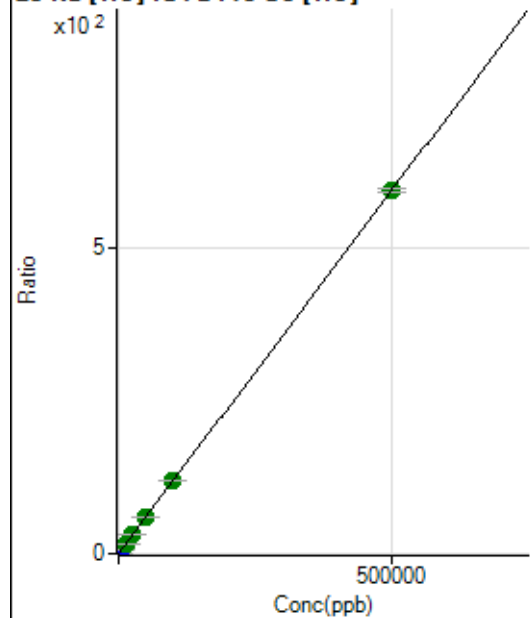
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2600123.68		A	0.1
2	☐			2574623.05		A	1.0
3	☐			2712947.86		A	0.9
4	☐			2749540.00		A	0.6
5	☐			2853500.75		A	0.4
6	☐			2939696.26		A	0.5
7	☐			3033381.87		A	2.1
8	☐			3056815.53		A	1.0

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22247.86		P	2.2
2	☐			22264.58		P	1.4
3	☐			23636.13		P	2.3
4	☐			24323.33		P	1.7
5	☐			25105.26		P	2.3
6	☐			26209.96		P	0.3
7	☐			27637.58		P	3.1
8	☐			29875.41		P	2.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25047.11	0.2692	P	4.3
2	☐	500.000	532.568	81538.84	0.8996	P	3.7
3	☐	5000.000	5183.817	602862.15	6.4052	P	1.4
4	☐	12500.000	12757.429	1466183.32	15.3699	A	1.9
5	☐	25000.000	25637.528	2869627.86	30.6159	A	0.4
6	☐	50000.000	50059.424	5657204.42	59.5237	A	1.1
7	☐	100000.00	100535.23	11406028.03	119.2711	A	0.1
8	☐	500000.00	499846.82	54068582.46	591.9300	A	1.1

$$y = 0.0012 * x + 0.2692$$

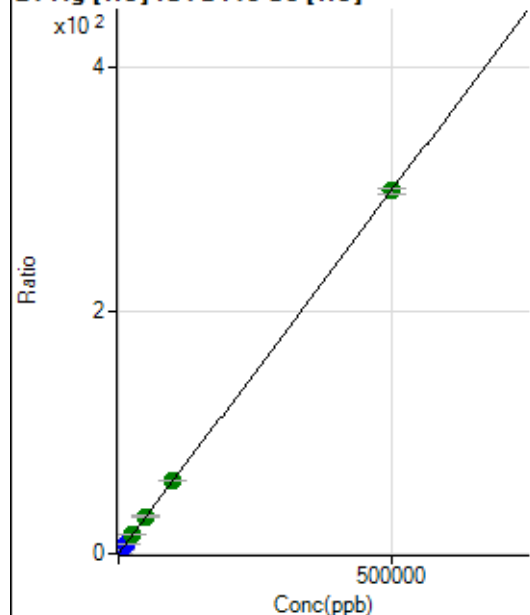
$$R = 1.0000$$

$$DL = 29.11$$

$$BEC = 227.4$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	597.25	0.0064	P	9.6
2	☐	500.000	516.586	28567.62	0.3151	P	2.9
3	☐	5000.000	5250.363	295894.85	3.1438	P	1.4
4	☐	12500.000	13005.479	742003.94	7.7778	P	1.4
5	☐	25000.000	26040.031	1459055.00	15.5667	A	0.1
6	☐	50000.000	51447.079	2922280.38	30.7487	A	2.2
7	☐	100000.00	100582.83	5748133.85	60.1098	A	1.1
8	☐	500000.00	499671.56	27273349.91	298.5855	A	1.5

$$y = 5.9755\text{E-}004 * x + 0.0064$$

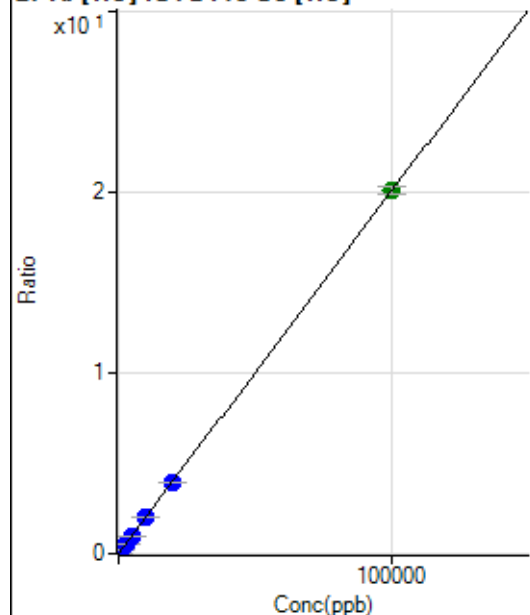
$$R = 1.0000$$

$$DL = 3.076$$

$$BEC = 10.74$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	387.04	0.0042	P	10.0
2	☐	20.000	22.330	781.59	0.0086	P	7.3
3	☐	1000.000	1000.664	19251.10	0.2045	P	0.7
4	☐	2500.000	2468.928	47559.83	0.4985	P	1.5
5	☐	5000.000	5007.966	94379.89	1.0069	P	0.1
6	☐	10000.000	9946.920	189694.64	1.9959	P	1.1
7	☐	20000.000	19630.036	376273.98	3.9348	P	1.2
8	☐	100000.00	100079.67	1830964.37	20.0438	A	2.1

$$y = 2.0024\text{E-}004 * x + 0.0042$$

$$R = 1.0000$$

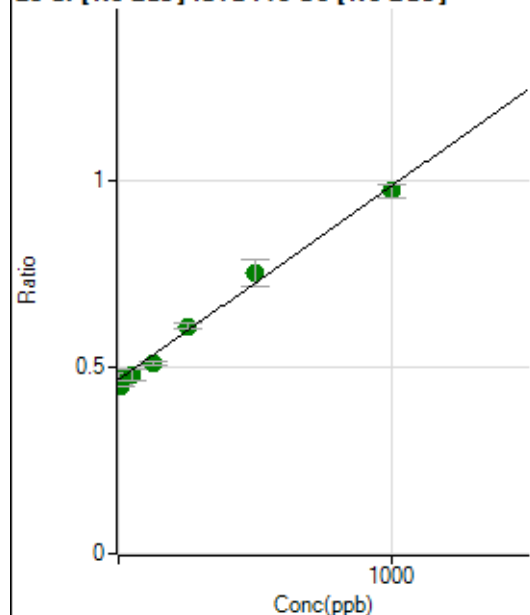
$$DL = 6.251$$

$$BEC = 20.76$$

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	1141728.00	0.4663	A	6.8
2	☐	10.000	-35.545	1150796.89	0.4479	A	0.9
3	☐	50.000	27.024	1210947.84	0.4804	A	6.7
4	☐	125.000	83.074	1340876.20	0.5094	A	2.1
5	☐	250.000	276.113	1552423.16	0.6094	A	2.4
6	☐	500.000	551.764	1935834.70	0.7523	A	9.9
7	☐	1000.000	974.435	2581332.76	0.9714	A	3.5
8	☐			1340468.24	0.5015	A	2.1

$$y = 5.1826\text{E-}004 * x + 0.4663$$

R = 0.9955

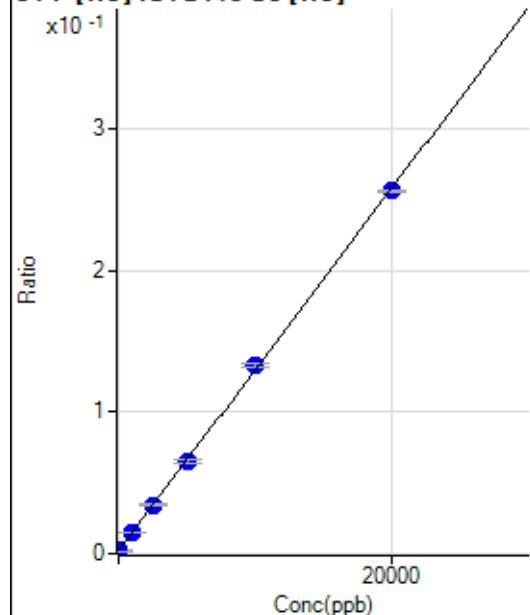
DL = 182.3

BEC = 899.8

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	21.102	216.67	0.0023	P	26.6
2	☐	0.000	-21.102	161.12	0.0018	P	24.5
3	☐	1000.000	1037.613	1444.56	0.0153	P	0.7
4	☐	2500.000	2527.136	3283.79	0.0344	P	5.3
5	☐	5000.000	4949.466	6134.79	0.0655	P	2.9
6	☐	10000.000	10258.314	12683.64	0.1335	P	2.3
7	☐	20000.000	19878.204	24546.19	0.2567	P	0.8
8	☐			183.34	0.0020	P	3.7

$$y = 1.2809\text{E-}005 * x + 0.0021$$

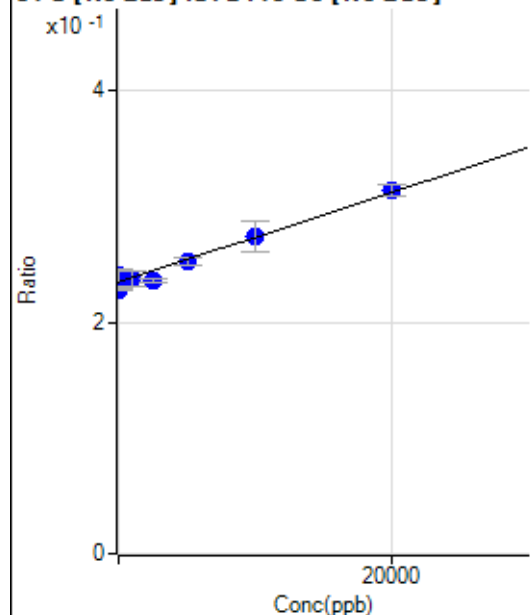
R = 0.9999

DL = 123.5

BEC = 160.5

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	1651.795	591114.05	0.2413	P	4.4
2	☐	0.000	-1651.795	586831.97	0.2284	P	0.7
3	☐	1000.000	897.398	601034.66	0.2383	P	5.7
4	☐	2500.000	259.797	620814.82	0.2358	P	1.4
5	☐	5000.000	4736.260	645033.57	0.2532	P	2.7
6	☐	10000.000	10119.982	705420.81	0.2742	P	10.1
7	☐	20000.000	20291.099	833742.84	0.3137	P	3.2
8	☐			543469.59	0.2035	P	3.4

$$y = 3.8880E-006 * x + 0.2348$$

R = 0.9865

DL = 4718

BEC = 6.04E+04

Weight: <None>

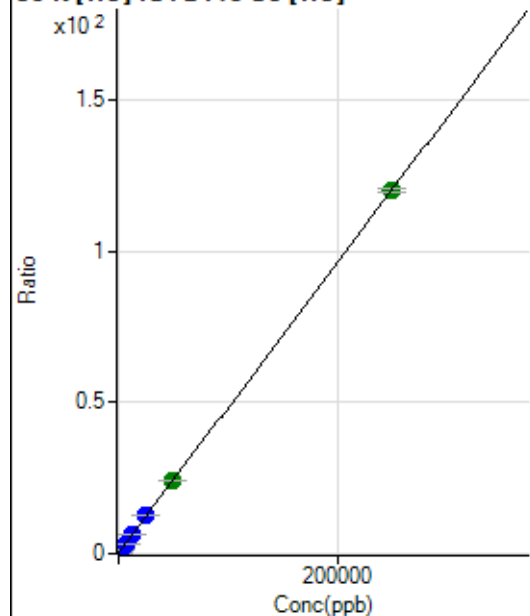
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			169404.46		P	0.5
2	☐			162433.83		P	0.2
3	☐			172922.50		P	0.1
4	☐			153692.72		P	0.3
5	☐			149727.54		P	0.7
6	☐			143172.75		P	0.5
7	☐			141590.44		P	0.9
8	☐			133235.58		P	0.2

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1311.21		P	7.4
2	☐			1166.75		P	7.2
3	☐			1383.44		P	10.9
4	☐			1219.53		P	3.4
5	☐			1125.07		P	7.5
6	☐			1113.96		P	11.4
7	☐			1047.29		P	10.6
8	☐			1033.40		P	4.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	23572.56	0.2533	P	2.9
2	☐	500.000	520.348	45572.58	0.5029	P	5.1
3	☐	2500.000	2575.604	140139.88	1.4888	P	0.2
4	☐	6250.000	6418.637	317892.01	3.3323	P	1.6
5	☐	12500.000	12940.167	605557.40	6.4607	P	0.3
6	☐	25000.000	25684.529	1195072.33	12.5742	P	0.9
7	☐	50000.000	50391.305	2335879.61	24.4260	A	0.4
8	☐	250000.00	249826.26	10969811.27	120.0950	A	1.1

$$y = 4.7970\text{E-}004 * x + 0.2533$$

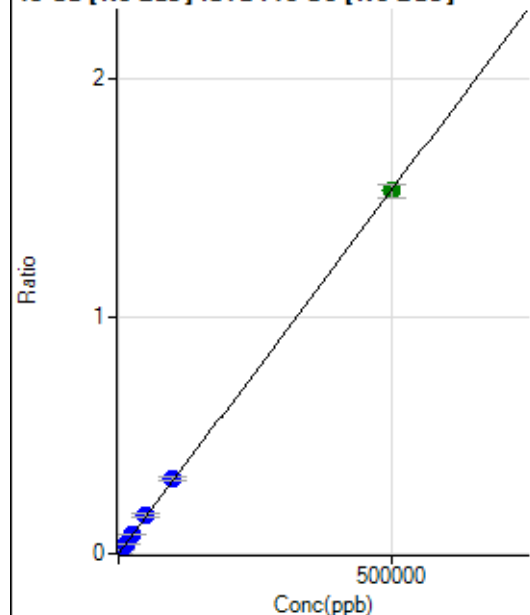
$$R = 1.0000$$

$$DL = 45.26$$

$$BEC = 528.1$$

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	388.29	0.0002	P	8.6
2	☐	500.000	481.388	4192.60	0.0016	P	1.5
3	☐	5000.000	5201.695	40533.08	0.0161	P	6.6
4	☐	12500.000	12551.739	101532.69	0.0386	P	1.1
5	☐	25000.000	26193.776	204588.55	0.0803	P	2.5
6	☐	50000.000	52499.596	413417.78	0.1608	P	11.4
7	☐	100000.00	102756.86	836027.32	0.3146	P	3.9
8	☐	500000.00	499135.68	4079725.33	1.5277	A	3.9

$$y = 3.0604\text{E-}006 * x + 1.5866\text{E-}004$$

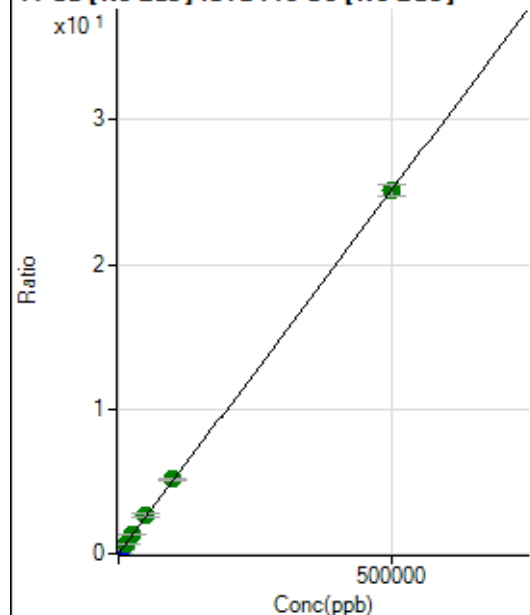
$$R = 1.0000$$

$$DL = 13.32$$

$$BEC = 51.84$$

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	23594.93	0.0096	P	4.9
2	☐	500.000	490.521	88069.36	0.0343	P	0.2
3	☐	5000.000	5326.426	699126.78	0.2773	P	6.2
4	☐	12500.000	12734.908	1709754.09	0.6495	A	1.1
5	☐	25000.000	26342.598	3395906.30	1.3333	A	2.7
6	☐	50000.000	52203.676	6771452.90	2.6327	A	10.6
7	☐	100000.00	102046.63	13652459.19	5.1372	A	3.2
8	☐	500000.00	499294.04	67033915.45	25.0978	A	3.3

$$y = 5.0247\text{E-}005 * x + 0.0096$$

$$R = 1.0000$$

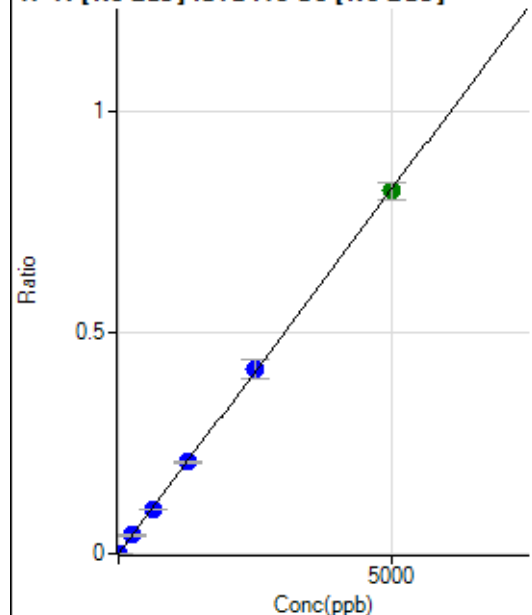
$$DL = 28.09$$

$$BEC = 191.7$$

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	338.90	0.0001	P	18.7
2	☐	5.000	5.001	2469.72	0.0010	P	7.2
3	☐	250.000	254.366	105802.90	0.0420	P	7.4
4	☐	625.000	608.427	263826.49	0.1002	P	1.2
5	☐	1250.000	1263.628	529857.87	0.2080	P	2.1
6	☐	2500.000	2537.880	1073894.58	0.4176	P	10.9
7	☐	5000.000	4979.506	2176551.48	0.8193	A	4.6
8	☐			575.03	0.0002	P	30.5

$$y = 1.6450\text{E-}004 * x + 1.3850\text{E-}004$$

$$R = 0.9999$$

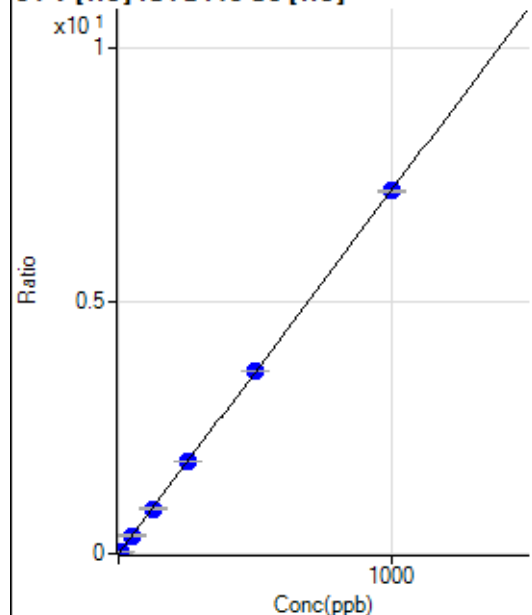
$$DL = 0.4724$$

$$BEC = 0.842$$

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	5.55	0.0001	P	70.0
2	☐	5.000	5.112	3340.42	0.0368	P	2.5
3	☐	50.000	50.247	34028.26	0.3615	P	0.7
4	☐	125.000	124.207	85238.36	0.8936	P	2.1
5	☐	250.000	252.229	170070.97	1.8145	P	0.2
6	☐	500.000	501.881	343139.85	3.6104	P	0.6
7	☐	1000.000	998.588	686947.44	7.1834	P	0.5
8	☐			193.34	0.0021	P	17.3

$$y = 0.0072 * x + 5.9830\text{E-}005$$

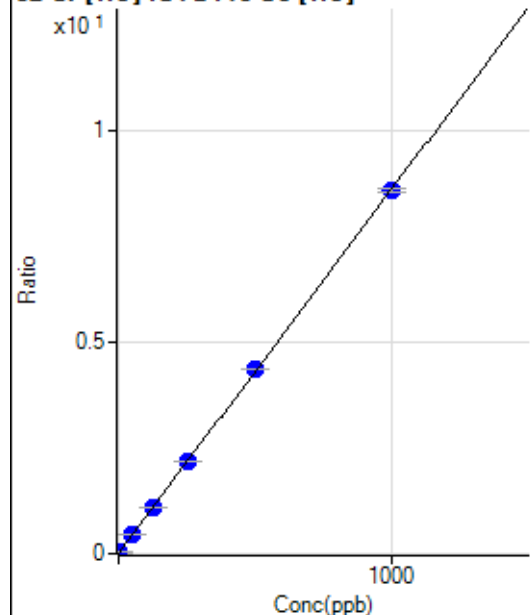
$$R = 1.0000$$

$$DL = 0.01746$$

$$BEC = 0.008317$$

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	621.13	0.0067	P	6.6
2	☐	2.000	2.144	2279.09	0.0252	P	5.8
3	☐	50.000	51.021	42019.38	0.4465	P	2.8
4	☐	125.000	125.362	103710.10	1.0873	P	2.2
5	☐	250.000	254.432	206187.87	2.1998	P	0.5
6	☐	500.000	505.732	414965.98	4.3660	P	0.4
7	☐	1000.000	995.929	821563.28	8.5913	P	1.1
8	☐			4454.07	0.0487	P	5.2

$$y = 0.0086 * x + 0.0067$$

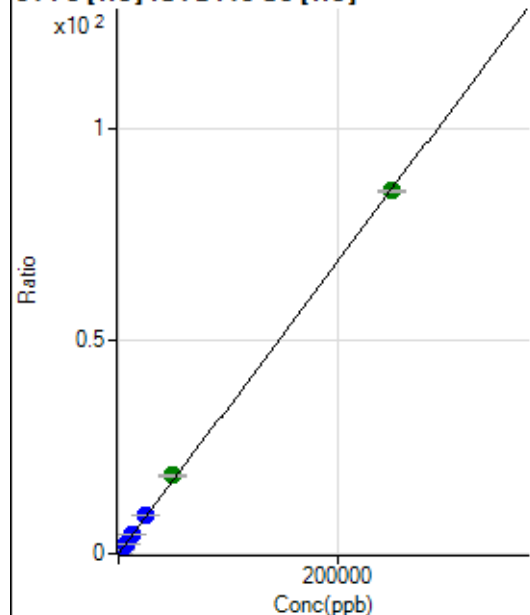
$$R = 1.0000$$

$$DL = 0.1522$$

$$BEC = 0.7745$$

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	396.31	0.0043	P	22.1
2	☐	50.000	59.585	2237.25	0.0247	P	4.9
3	☐	2500.000	2701.665	87570.48	0.9304	P	1.7
4	☐	6250.000	6669.630	218479.39	2.2906	P	2.6
5	☐	12500.000	13579.875	436725.96	4.6594	P	0.6
6	☐	25000.000	26845.493	875041.59	9.2068	P	0.8
7	☐	50000.000	53738.398	1761982.43	18.4257	A	1.6
8	☐	250000.00	249001.26	7797411.52	85.3614	A	0.9

$$y = 3.4280E-004 * x + 0.0043$$

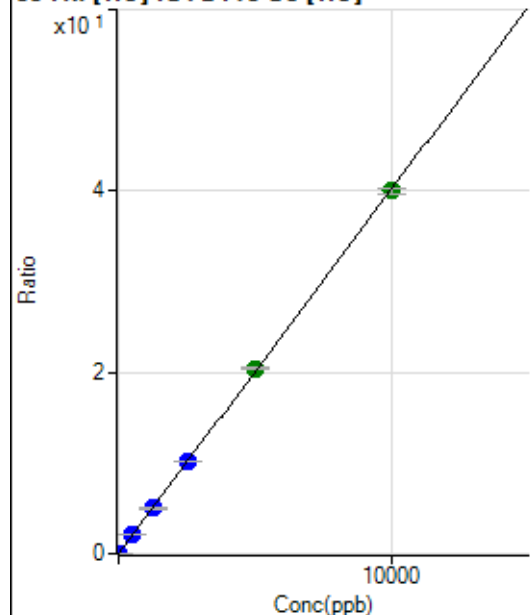
$$R = 0.9999$$

$$DL = 8.244$$

$$BEC = 12.43$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	94.44	0.0010	P	12.8
2	☐	1.000	1.049	474.46	0.0052	P	4.5
3	☐	500.000	510.169	193112.14	2.0518	P	2.1
4	☐	1250.000	1251.294	479881.39	5.0310	P	2.4
5	☐	2500.000	2526.160	951898.24	10.1558	P	0.7
6	☐	5000.000	5080.017	1940994.83	20.4219	A	0.6
7	☐	10000.000	9952.781	3825905.50	40.0097	A	1.8
8	☐			2256.87	0.0247	P	1.7

$$y = 0.0040 * x + 0.0010$$

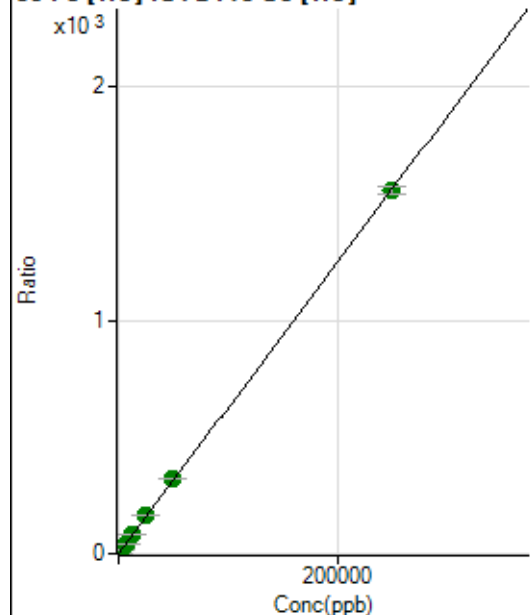
$$R = 0.9999$$

$$DL = 0.09679$$

$$BEC = 0.2525$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2818.85	0.0303	P	4.9
2	☐	50.000	54.588	33610.21	0.3708	P	3.5
3	☐	2500.000	2673.396	1572236.27	16.7056	A	2.4
4	☐	6250.000	6533.905	3890047.16	40.7856	A	2.8
5	☐	12500.000	13142.911	7686683.16	82.0093	A	0.2
6	☐	25000.000	26333.061	15614138.31	164.2830	A	0.5
7	☐	50000.000	51909.781	30965959.72	323.8180	A	0.9
8	☐	250000.00	249443.76	142109874.4	1,555.938	A	2.2

$$y = 0.0062 * x + 0.0303$$

$$R = 1.0000$$

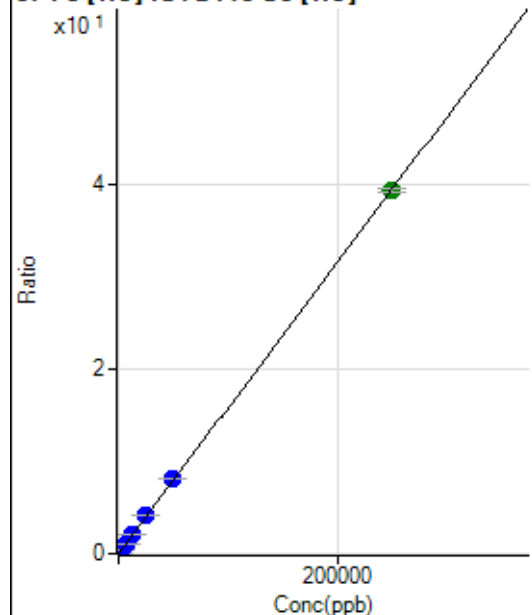
$$DL = 0.7094$$

$$BEC = 4.856$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	94.45	0.0010	P	10.1
2	☐	50.000	57.783	916.71	0.0101	P	5.9
3	☐	2500.000	2636.058	39118.71	0.4156	P	0.6
4	☐	6250.000	6494.977	97515.90	1.0225	P	3.3
5	☐	12500.000	13183.997	194446.04	2.0746	P	0.4
6	☐	25000.000	26130.566	390705.32	4.1107	P	0.2
7	☐	50000.000	51827.423	779581.30	8.1523	P	0.9
8	☐	250000.00	249479.77	3584150.57	39.2384	A	1.1

$$y = 1.5728\text{E-}004 * x + 0.0010$$

$$R = 1.0000$$

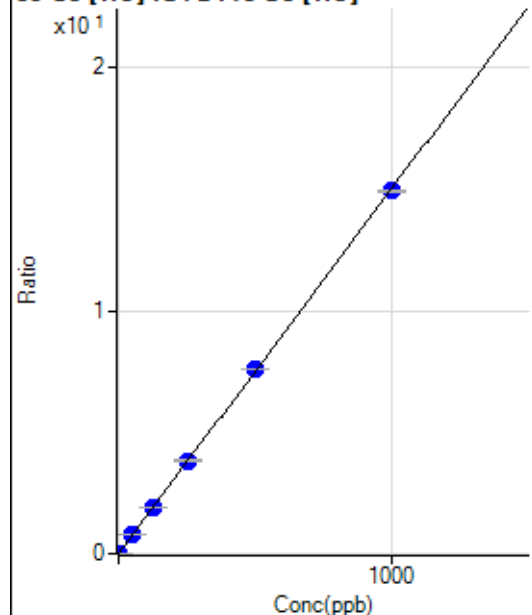
$$DL = 1.958$$

$$BEC = 6.452$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	50.00	0.0005	P	31.2
2	☐	1.000	1.039	1462.31	0.0161	P	4.3
3	☐	50.000	50.995	72074.33	0.7658	P	1.5
4	☐	125.000	126.434	181010.11	1.8978	P	2.7
5	☐	250.000	254.799	358435.44	3.8241	P	0.8
6	☐	500.000	507.777	724274.26	7.6204	P	0.3
7	☐	1000.000	994.683	1427454.65	14.9270	P	0.8
8	☐			1892.37	0.0207	P	3.1

$$y = 0.0150 * x + 5.3802\text{E-}004$$

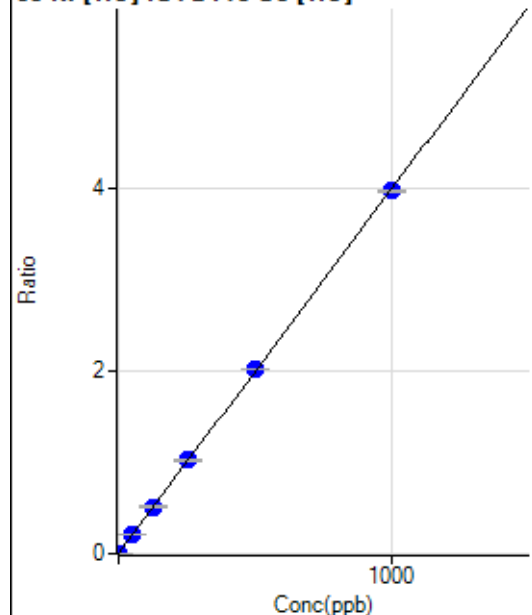
$$R = 0.9999$$

$$DL = 0.03353$$

$$BEC = 0.03585$$

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	250.00	0.0027	P	15.1
2	☐	1.000	1.131	652.25	0.0072	P	10.3
3	☐	50.000	51.691	19641.41	0.2087	P	1.2
4	☐	125.000	126.596	48367.45	0.5072	P	3.5
5	☐	250.000	255.709	95765.00	1.0217	P	0.3
6	☐	500.000	506.004	191907.96	2.0192	P	0.5
7	☐	1000.000	995.287	379554.44	3.9690	P	0.7
8	☐			1582.33	0.0173	P	5.7

$$y = 0.0040 * x + 0.0027$$

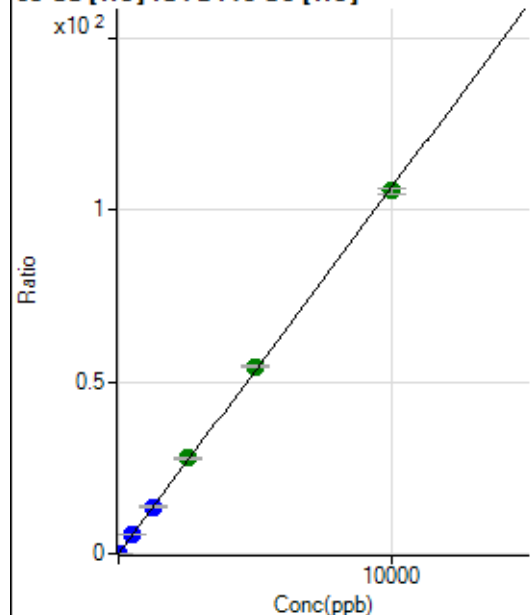
$$R = 1.0000$$

$$DL = 0.3059$$

$$BEC = 0.6741$$

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	601.13	0.0065	P	5.2
2	☐	2.000	2.369	2871.43	0.0317	P	3.3
3	☐	500.000	521.019	522268.46	5.5489	P	1.3
4	☐	1250.000	1282.964	1302307.31	13.6543	P	2.7
5	☐	2500.000	2607.417	2600415.53	27.7435	A	1.0
6	☐	5000.000	5115.740	5172943.61	54.4264	A	0.6
7	☐	10000.000	9910.104	10081690.96	105.4276	A	1.2
8	☐			5851.26	0.0641	P	2.5

$$y = 0.0106 * x + 0.0065$$

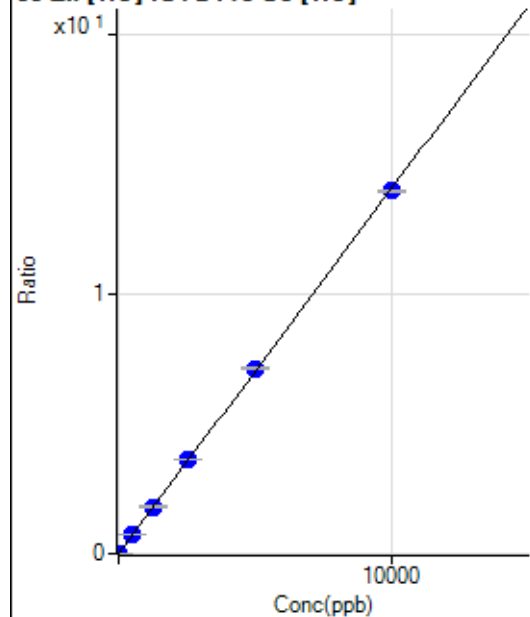
$$R = 0.9998$$

$$DL = 0.09425$$

$$BEC = 0.6073$$

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	46.67	0.0005	P	49.4
2	☐	2.000	2.017	302.23	0.0033	P	17.5
3	☐	500.000	512.375	67811.08	0.7205	P	2.1
4	☐	1250.000	1275.528	170993.15	1.7929	P	2.9
5	☐	2500.000	2581.660	340076.60	3.6282	P	0.8
6	☐	5000.000	5074.211	677747.92	7.1308	P	0.4
7	☐	10000.000	9938.670	1335574.32	13.9663	P	0.8
8	☐			1486.76	0.0163	P	3.1

$$y = 0.0014 * x + 5.0126E-004$$

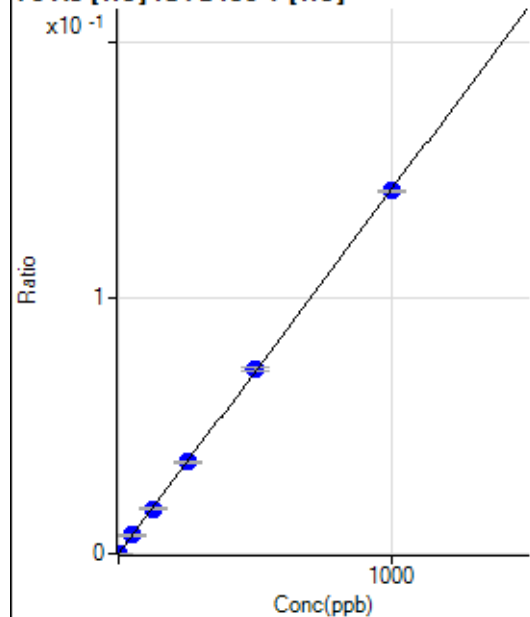
$$R = 0.9999$$

$$DL = 0.5291$$

$$BEC = 0.3567$$

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	7.00	0.0000	P	50.6
2	☐	1.000	1.119	111.68	0.0002	P	14.7
3	☐	50.000	50.337	4974.05	0.0072	P	1.9
4	☐	125.000	123.864	12485.10	0.0177	P	3.4
5	☐	250.000	252.199	24770.78	0.0359	P	2.4
6	☐	500.000	506.738	49999.90	0.0722	P	1.3
7	☐	1000.000	996.206	99572.27	0.1419	P	0.6
8	☐			42.34	0.0001	P	16.6

$$y = 1.4248E-004 * x + 1.0270E-005$$

$$R = 1.0000$$

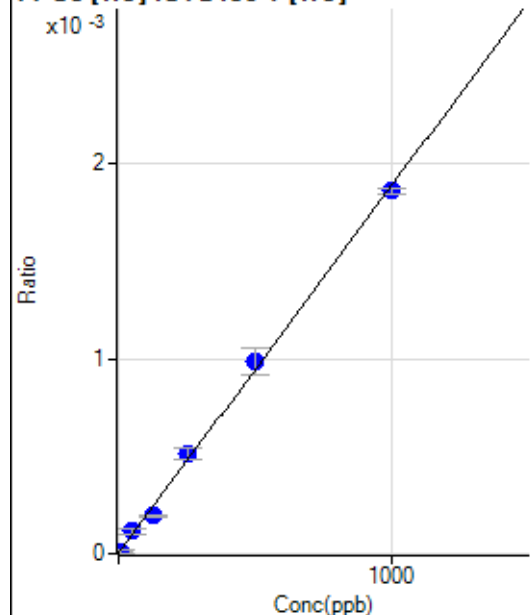
$$DL = 0.1094$$

$$BEC = 0.07208$$

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	3.570	6.67	0.0000	P	130.
3	☐	50.000	58.752	78.89	0.0001	P	28.5
4	☐	125.000	101.796	137.78	0.0002	P	6.5
5	☐	250.000	271.713	354.45	0.0005	P	12.0
6	☐	500.000	521.475	682.25	0.0010	P	13.7
7	☐	1000.000	986.304	1304.52	0.0019	P	1.9
8	☐			2.22	0.0000	P	86.6

$$y = 1.8823\text{E-}006 * x + 3.2660\text{E-}006$$

$$R = 0.9989$$

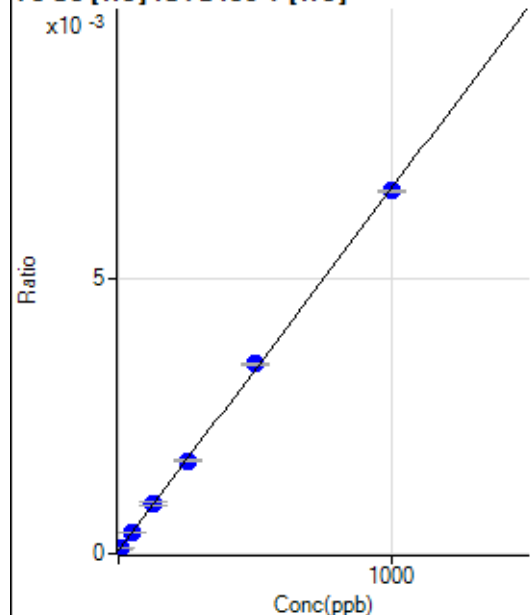
$$DL = 9.016$$

$$BEC = 1.735$$

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	39.00	0.0001	P	15.9
2	☐	5.000	6.626	66.34	0.0001	P	23.5
3	☐	50.000	50.106	269.03	0.0004	P	3.9
4	☐	125.000	129.204	644.08	0.0009	P	6.1
5	☐	250.000	247.617	1167.50	0.0017	P	1.1
6	☐	500.000	514.267	2392.78	0.0035	P	1.6
7	☐	1000.000	992.923	4643.24	0.0066	P	0.4
8	☐			42.67	0.0001	P	20.7

$$y = 6.6082\text{E-}006 * x + 5.7411\text{E-}005$$

$$R = 0.9998$$

$$DL = 4.149$$

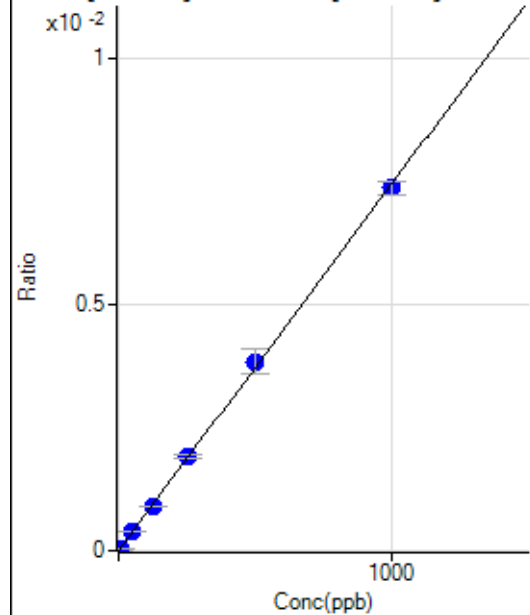
$$BEC = 8.688$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3090.20		P	1.6
2	☐			3113.56		P	6.0
3	☐			2786.50		P	5.7
4	☐			2636.31		P	6.5
5	☐			2973.37		P	2.6
6	☐			2936.69		P	2.8
7	☐			3156.95		P	7.0
8	☐			3260.41		P	4.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-72.41	0.0000	P	-59.
2	☐	5.000	5.994	206.85	0.0000	P	3.1
3	☐	50.000	53.026	2380.46	0.0004	P	0.8
4	☐	125.000	121.925	5820.27	0.0009	P	2.3
5	☐	250.000	256.188	11727.88	0.0019	P	3.2
6	☐	500.000	516.147	23744.63	0.0038	P	13.2
7	☐	1000.000	990.608	47530.84	0.0074	P	3.8
8	☐			16.75	0.0000	P	295.

$$y = 7.4597E-006 * x - 1.1966E-005$$

$$R = 0.9998$$

$$DL = 2.839$$

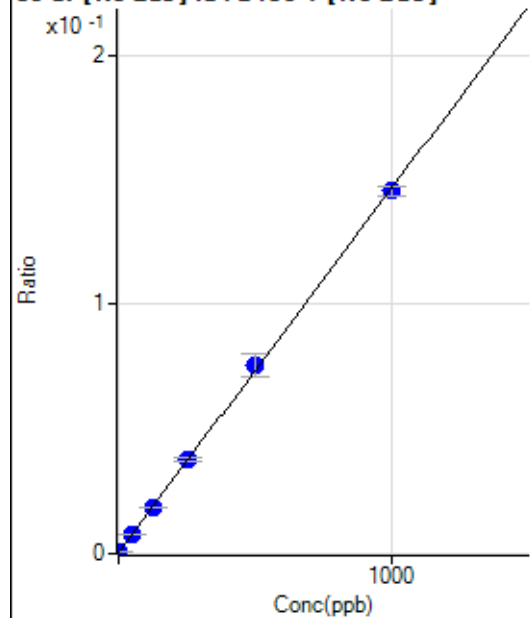
$$BEC = -1.604$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1952.38		P	3.3
2	☐			1935.71		P	0.5
3	☐			1845.70		P	1.9
4	☐			1839.03		P	4.5
5	☐			2029.06		P	4.2
6	☐			1930.16		P	2.1
7	☐			1866.81		P	1.3
8	☐			1832.36		P	4.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3000.40	0.0005	P	4.6
2	☐	1.000	0.848	3906.19	0.0006	P	9.7
3	☐	50.000	49.995	48239.43	0.0078	P	6.1
4	☐	125.000	121.892	118575.52	0.0183	P	1.5
5	☐	250.000	253.661	231657.64	0.0375	P	3.6
6	☐	500.000	512.476	465953.62	0.0753	P	12.5
7	☐	1000.000	993.236	937264.23	0.1455	P	2.9
8	☐			8322.12	0.0013	P	7.8

$$y = 1.4595E-004 * x + 4.9477E-004$$

$$R = 0.9999$$

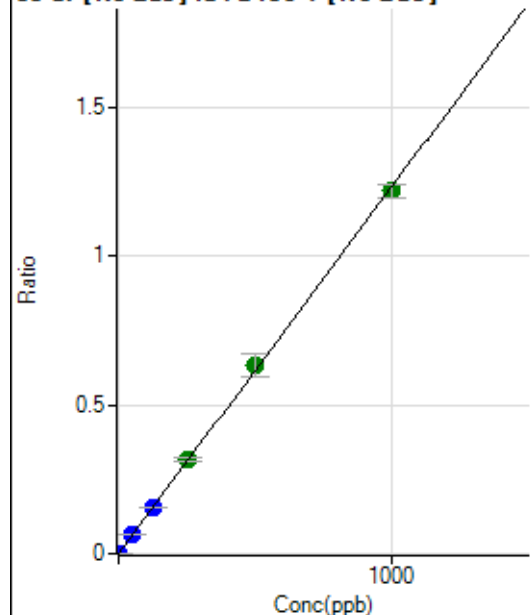
$$DL = 0.4707$$

$$BEC = 3.39$$

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	247.23	0.0000	P	8.6
2	☐	1.000	1.015	8149.81	0.0013	P	4.1
3	☐	50.000	51.923	395884.47	0.0640	P	7.9
4	☐	125.000	124.274	992862.62	0.1531	P	1.3
5	☐	250.000	259.168	1971078.36	0.3192	A	3.9
6	☐	500.000	515.855	3932652.39	0.6354	A	12.5
7	☐	1000.000	989.775	7854357.64	1.2191	A	3.6
8	☐			45747.91	0.0070	P	3.9

$$y = 0.0012 * x + 4.0683E-005$$

$$R = 0.9998$$

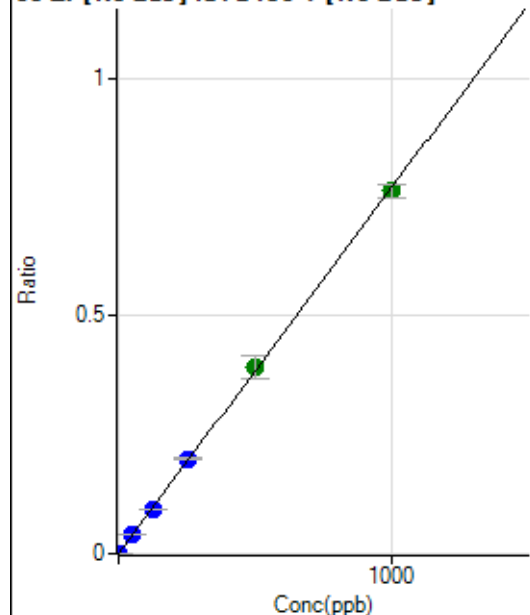
$$DL = 0.008503$$

$$BEC = 0.03303$$

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	280.57	0.0000	P	9.6
2	☐	1.000	1.000	5156.64	0.0008	P	2.0
3	☐	50.000	51.663	246631.77	0.0398	P	6.0
4	☐	125.000	122.950	614390.47	0.0947	P	0.7
5	☐	250.000	260.059	1237182.77	0.2003	P	3.0
6	☐	500.000	512.195	2441843.54	0.3945	A	12.4
7	☐	1000.000	991.561	4920253.06	0.7637	A	3.6
8	☐			1697.38	0.0003	P	8.9

$$y = 7.7014E-004 * x + 4.6359E-005$$

$$R = 0.9998$$

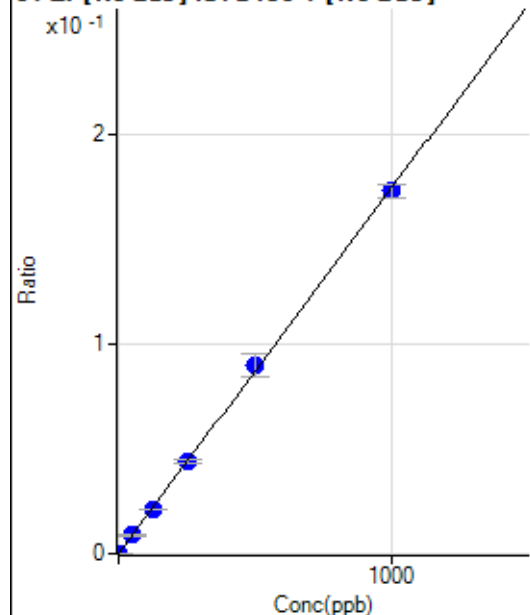
$$DL = 0.01736$$

$$BEC = 0.0602$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.89	0.0000	P	4.9
2	☐	1.000	0.935	1097.29	0.0002	P	7.5
3	☐	50.000	50.071	54186.63	0.0088	P	6.5
4	☐	125.000	120.600	136640.30	0.0211	P	0.4
5	☐	250.000	253.038	272952.10	0.0442	P	2.7
6	☐	500.000	515.124	556578.11	0.0900	P	12.9
7	☐	1000.000	992.225	1116247.30	0.1733	P	3.9
8	☐			388.90	0.0001	P	19.5

$$y = 1.7461\text{E-}004 * x + 1.0519\text{E-}005$$

$$R = 0.9998$$

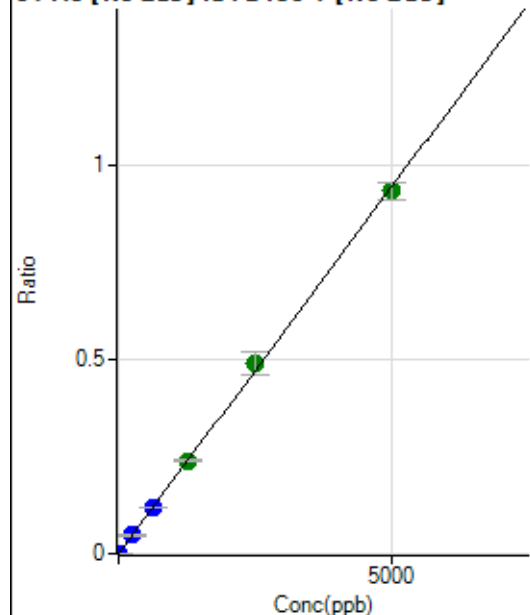
$$DL = 0.008928$$

$$BEC = 0.06024$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	113.89	0.0000	P	34.7
2	☐	5.000	4.833	5879.18	0.0009	P	7.4
3	☐	250.000	257.904	301258.50	0.0487	P	7.0
4	☐	625.000	620.493	759308.15	0.1171	P	0.8
5	☐	1250.000	1271.443	1481449.36	0.2399	A	3.2
6	☐	2500.000	2591.011	3025106.62	0.4888	A	12.6
7	☐	5000.000	4949.302	6015076.05	0.9338	A	4.5
8	☐			1752.93	0.0003	P	13.2

$$y = 1.8866\text{E-}004 * x + 1.8985\text{E-}005$$

$$R = 0.9997$$

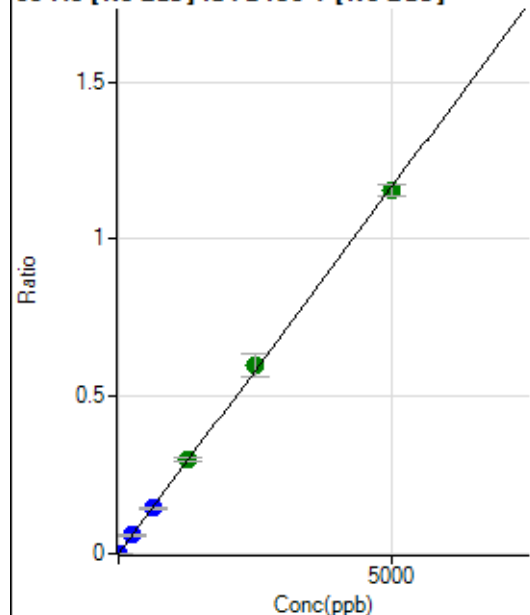
$$DL = 0.1046$$

$$BEC = 0.1006$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	41.67	0.0000	P	24.9
2	☐	5.000	4.742	7024.18	0.0011	P	3.9
3	☐	250.000	257.765	371757.19	0.0601	P	7.4
4	☐	625.000	616.789	932196.71	0.1437	P	1.4
5	☐	1250.000	1291.803	1858517.12	0.3011	A	4.6
6	☐	2500.000	2580.782	3723238.49	0.6014	A	12.2
7	☐	5000.000	4949.797	7432462.93	1.1535	A	3.2
8	☐			2055.76	0.0003	P	1.3

$$y = 2.3305E-004 * x + 6.9208E-006$$

$$R = 0.9998$$

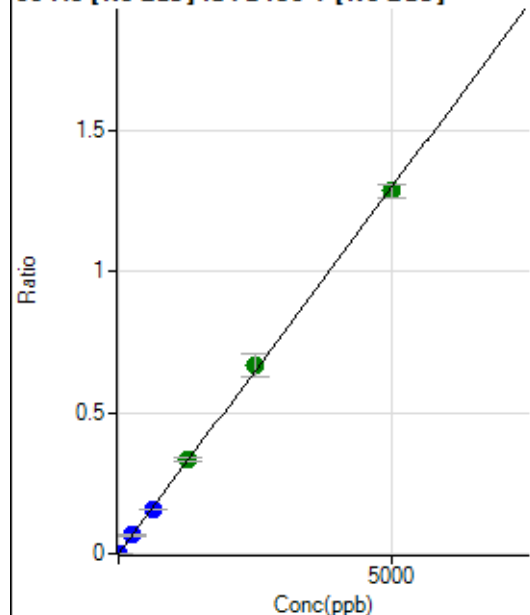
$$DL = 0.02215$$

$$BEC = 0.0297$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	102.78	0.0000	P	14.8
2	☐	5.000	4.691	7785.72	0.0012	P	4.8
3	☐	250.000	255.688	410275.59	0.0663	P	7.0
4	☐	625.000	611.188	1027468.20	0.1584	P	1.2
5	☐	1250.000	1290.827	2066464.85	0.3346	A	2.8
6	☐	2500.000	2571.687	4124336.81	0.6666	A	12.8
7	☐	5000.000	4955.392	8275483.35	1.2844	A	3.5
8	☐			2714.23	0.0004	P	10.3

$$y = 2.5919E-004 * x + 1.6896E-005$$

$$R = 0.9998$$

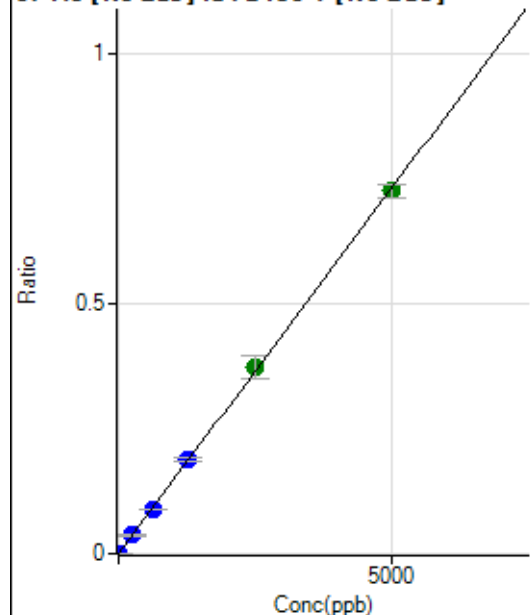
$$DL = 0.02903$$

$$BEC = 0.06519$$

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	5.55	0.0000	P	86.6
2	☐	5.000	4.802	4431.41	0.0007	P	1.8
3	☐	250.000	251.853	227308.39	0.0367	P	8.2
4	☐	625.000	604.656	572128.55	0.0882	P	0.9
5	☐	1250.000	1280.008	1152975.66	0.1867	P	4.2
6	☐	2500.000	2557.216	2308647.82	0.3731	A	12.8
7	☐	5000.000	4966.341	4668249.15	0.7246	A	3.6
8	☐			1272.32	0.0002	P	16.1

$$y = 1.4590E-004 * x + 9.4148E-007$$

$$R = 0.9999$$

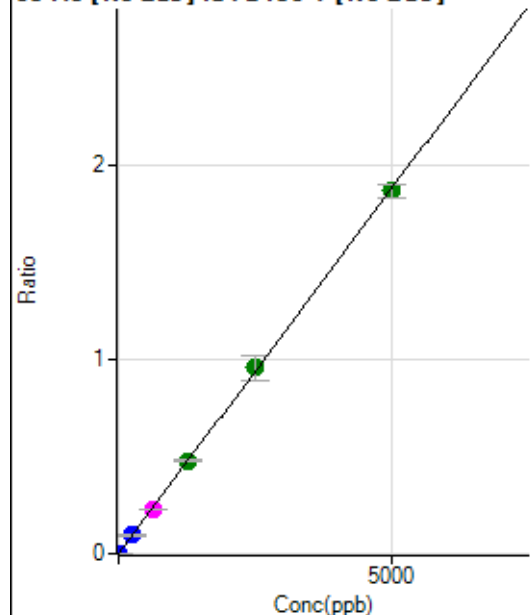
$$DL = 0.01677$$

$$BEC = 0.006453$$

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	30.55	0.0000	P	16.1
2	☐	5.000	4.806	11430.03	0.0018	P	3.4
3	☐	250.000	253.030	588203.80	0.0950	P	6.7
4	☐	625.000	613.445	1493927.13	0.2304	M	1.3
5	☐	1250.000	1276.733	2960611.35	0.4794	A	3.4
6	☐	2500.000	2546.717	5917127.61	0.9563	A	12.9
7	☐	5000.000	4971.251	12027838.46	1.8668	A	3.5
8	☐			3044.86	0.0005	P	2.6

$$y = 3.7552E-004 * x + 5.0367E-006$$

$$R = 0.9999$$

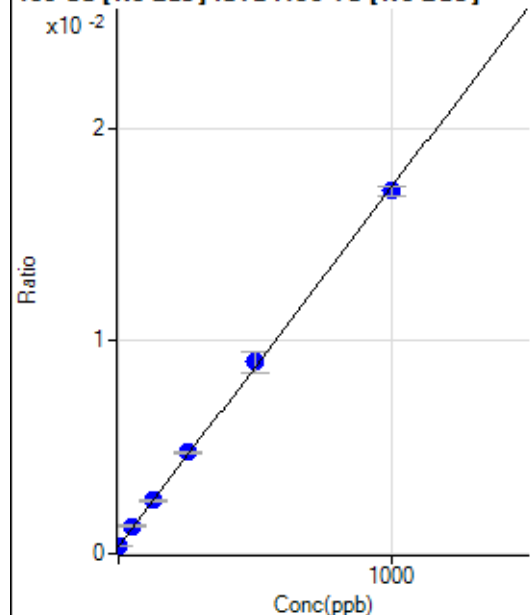
$$DL = 0.006474$$

$$BEC = 0.01341$$

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	1302.88	0.0003	P	10.7
2	☐	1.000	0.913	1452.90	0.0004	P	7.4
3	☐	50.000	54.969	5101.06	0.0013	P	7.3
4	☐	125.000	129.720	10637.67	0.0025	P	3.6
5	☐	250.000	261.111	19030.20	0.0048	P	3.2
6	☐	500.000	512.851	36568.58	0.0090	P	11.4
7	☐	1000.000	989.958	72456.97	0.0171	P	2.3
8	☐			1491.79	0.0003	P	5.6

$$y = 1.6893E-005 * x + 3.4036E-004$$

$$R = 0.9998$$

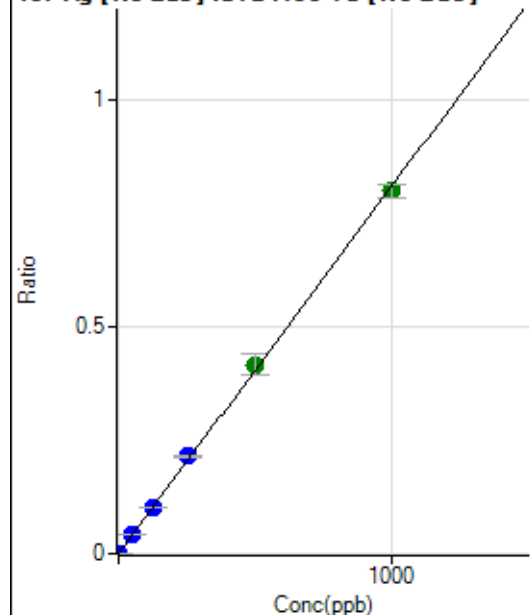
$$DL = 6.476$$

$$BEC = 20.15$$

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	33.33	0.0000	P	30.3
2	☐	1.000	1.012	3378.29	0.0008	P	2.6
3	☐	50.000	52.554	170848.48	0.0425	P	6.4
4	☐	125.000	126.565	430030.12	0.1023	P	0.9
5	☐	250.000	264.811	857336.19	0.2141	P	3.4
6	☐	500.000	515.616	1692758.41	0.4169	A	11.7
7	☐	1000.000	988.166	3391984.80	0.7990	A	3.6
8	☐			977.84	0.0002	P	4.4

$$y = 8.0860E-004 * x + 8.7792E-006$$

$$R = 0.9997$$

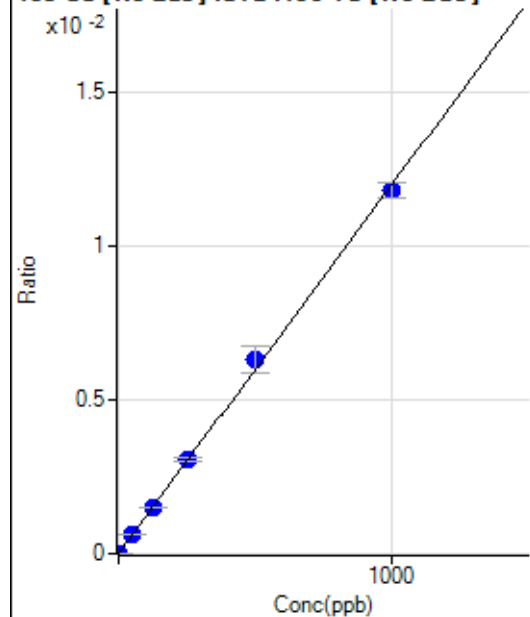
$$DL = 0.009881$$

$$BEC = 0.01086$$

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	13.89	0.0000	P	49.8
2	☐	1.000	0.803	54.17	0.0000	P	34.1
3	☐	50.000	51.868	2518.32	0.0006	P	4.0
4	☐	125.000	123.969	6262.59	0.0015	P	1.5
5	☐	250.000	257.204	12362.57	0.0031	P	4.4
6	☐	500.000	527.256	25650.37	0.0063	P	13.7
7	☐	1000.000	984.606	50137.91	0.0118	P	4.4
8	☐			76.39	0.0000	P	23.9

$$y = 1.1994\text{E-}005 * x + 3.6497\text{E-}006$$

$$R = 0.9994$$

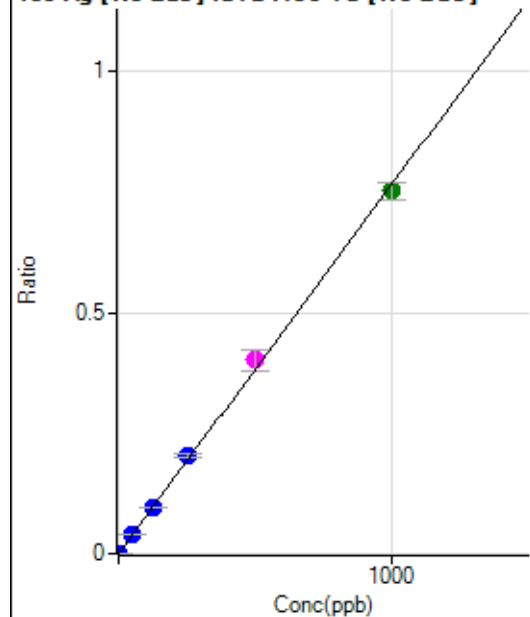
$$DL = 0.455$$

$$BEC = 0.3043$$

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	38.89	0.0000	P	48.9
2	☐	1.000	0.969	3069.86	0.0008	P	1.0
3	☐	50.000	52.853	162532.25	0.0404	P	5.8
4	☐	125.000	126.272	405722.26	0.0966	P	0.5
5	☐	250.000	264.728	810383.55	0.2024	P	4.0
6	☐	500.000	524.715	1629105.68	0.4012	M	11.6
7	☐	1000.000	983.659	3192334.73	0.7522	A	4.8
8	☐			880.61	0.0002	P	19.3

$$y = 7.6468\text{E-}004 * x + 1.0233\text{E-}005$$

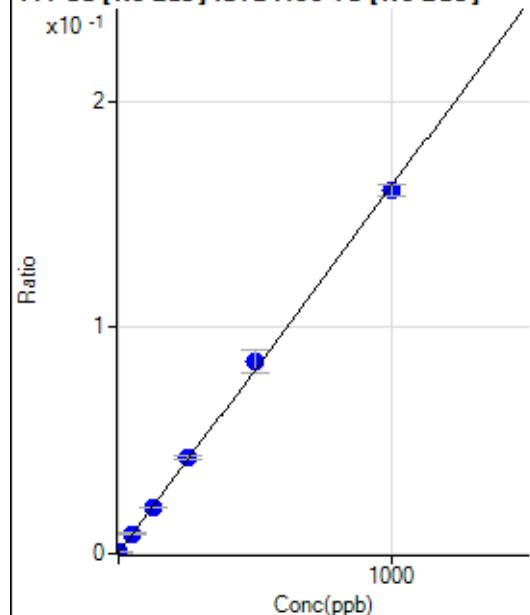
$$R = 0.9994$$

$$DL = 0.01963$$

$$BEC = 0.01338$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	920.35	0.0002	P	9.9
2	☐	1.000	1.190	1769.42	0.0004	P	3.4
3	☐	50.000	52.203	34988.22	0.0087	P	6.2
4	☐	125.000	125.025	86172.43	0.0205	P	0.4
5	☐	250.000	262.042	171050.42	0.0427	P	3.5
6	☐	500.000	520.022	343155.98	0.0846	P	12.1
7	☐	1000.000	986.865	680270.80	0.1602	P	3.4
8	☐			1238.01	0.0003	P	3.7

$$y = 1.6213\text{E-}004 * x + 2.4035\text{E-}004$$

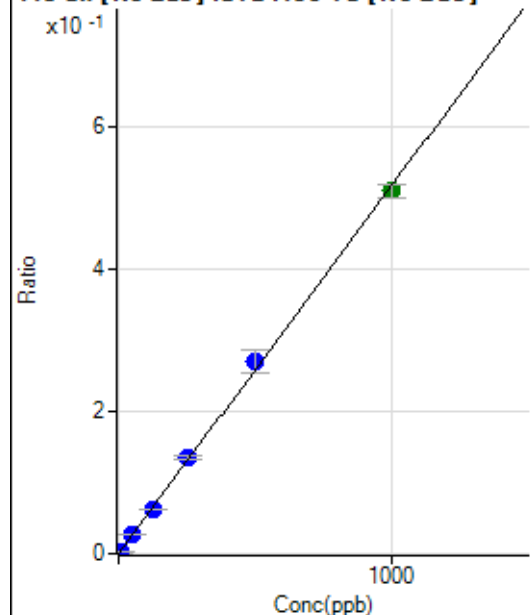
$$R = 0.9996$$

$$DL = 0.4417$$

$$BEC = 1.482$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	288.90	0.0001	P	11.6
2	☐	5.000	4.819	10484.85	0.0026	P	3.6
3	☐	50.000	51.577	107470.13	0.0267	P	6.7
4	☐	125.000	121.989	265290.12	0.0631	P	0.8
5	☐	250.000	262.317	543169.22	0.1357	P	4.0
6	☐	500.000	521.630	1094482.63	0.2697	P	12.5
7	☐	1000.000	986.404	2164983.64	0.5100	A	3.8
8	☐			1116.74	0.0003	P	7.3

$$y = 5.1698\text{E-}004 * x + 7.5507\text{E-}005$$

$$R = 0.9995$$

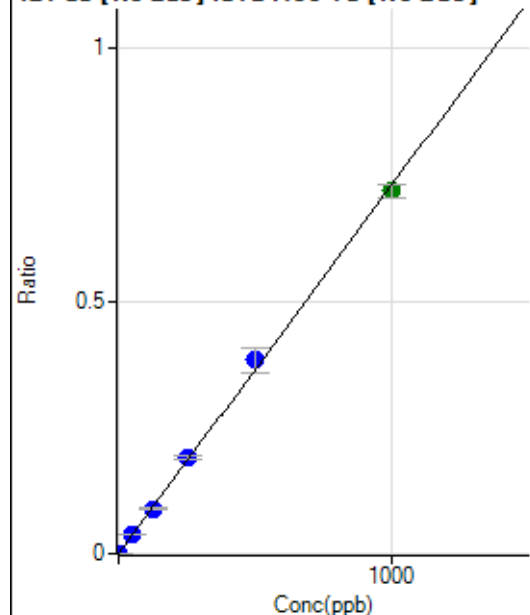
$$DL = 0.05089$$

$$BEC = 0.1461$$

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	27.78	0.0000	P	97.4
2	☐	2.000	1.845	5523.49	0.0014	P	4.6
3	☐	50.000	51.259	150152.39	0.0374	P	6.4
4	☐	125.000	122.418	374781.98	0.0892	P	0.5
5	☐	250.000	261.807	763669.24	0.1908	P	4.0
6	☐	500.000	524.677	1550398.20	0.3823	P	13.2
7	☐	1000.000	984.970	3046366.50	0.7177	A	3.9
8	☐			1677.93	0.0004	P	15.0

$$y = 7.2862\text{E-}004 * x + 7.3688\text{E-}006$$

$$R = 0.9994$$

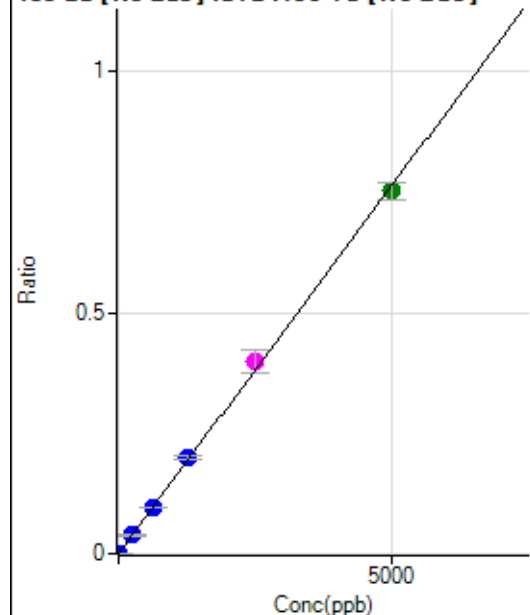
$$DL = 0.02955$$

$$BEC = 0.01011$$

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	55.56	0.0000	P	36.3
2	☐	10.000	9.734	6123.77	0.0015	P	3.3
3	☐	250.000	257.101	157584.22	0.0392	P	7.3
4	☐	625.000	616.151	394814.86	0.0940	P	0.4
5	☐	1250.000	1305.740	797015.57	0.1991	P	4.5
6	☐	2500.000	2606.300	1613242.51	0.3974	M	12.0
7	☐	5000.000	4933.667	3192794.89	0.7523	A	5.0
8	☐			844.49	0.0002	P	8.9

$$y = 1.5249\text{E-}004 * x + 1.4646\text{E-}005$$

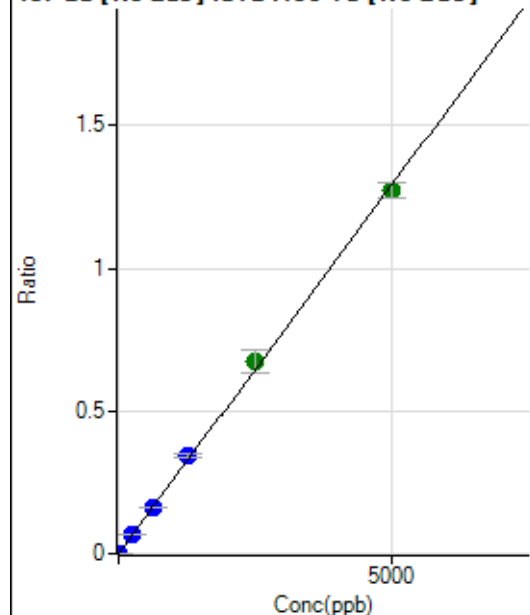
$$R = 0.9996$$

$$DL = 0.1047$$

$$BEC = 0.09604$$

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	47.22	0.0000	P	7.8
2	☐	10.000	10.123	10729.53	0.0026	P	2.4
3	☐	250.000	261.018	270702.06	0.0674	P	8.5
4	☐	625.000	630.211	683697.29	0.1627	P	0.8
5	☐	1250.000	1331.930	1376902.30	0.3439	P	3.4
6	☐	2500.000	2607.561	2733555.42	0.6733	A	11.6
7	☐	5000.000	4924.535	5396879.25	1.2715	A	4.3
8	☐			1658.48	0.0004	P	7.4

$$y = 2.5819E-004 * x + 1.2282E-005$$

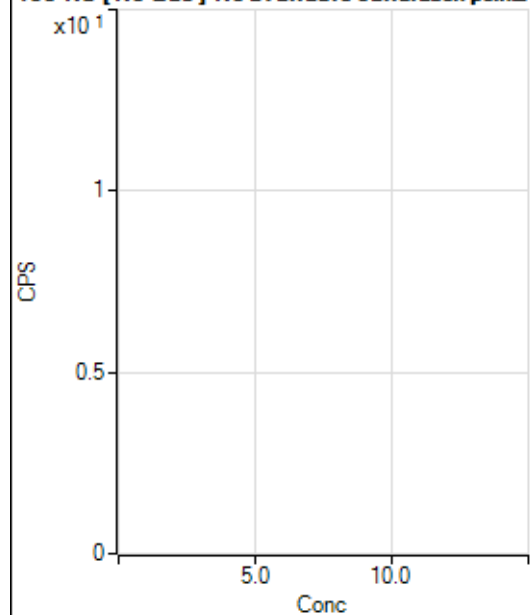
$$R = 0.9995$$

$$DL = 0.0112$$

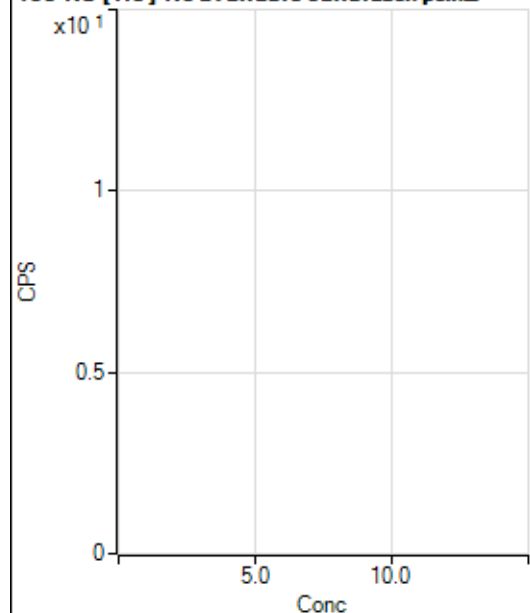
$$BEC = 0.04757$$

Weight: <None>

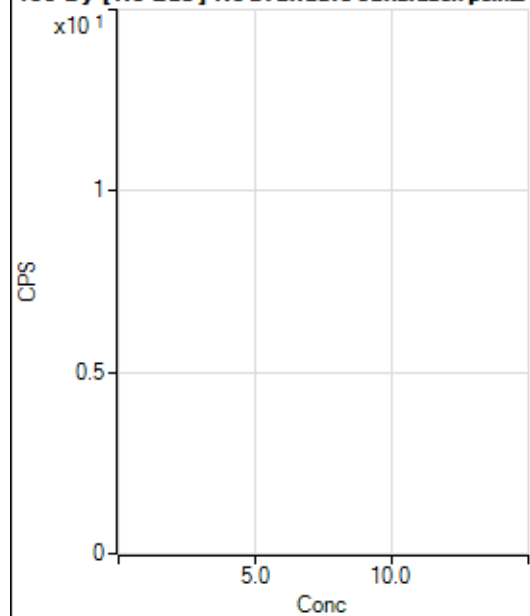
Min Conc: 0

150 Nd [No Gas] No available calibration points

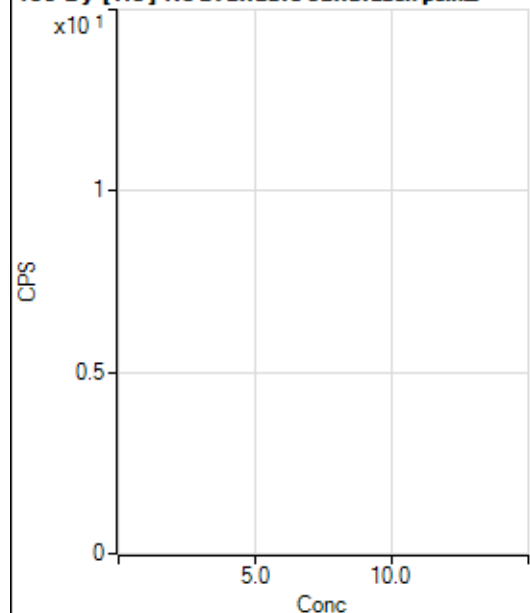
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			20.00		P	88.2
2	☐			13.33		P	86.6
3	☐			17.78		P	57.3
4	☐			22.22		P	105.
5	☐			42.22		P	45.6
6	☐			102.23		P	60.2
7	☐			133.34		P	30.4
8	☐			15.56		P	65.5

150 Nd [He] No available calibration points

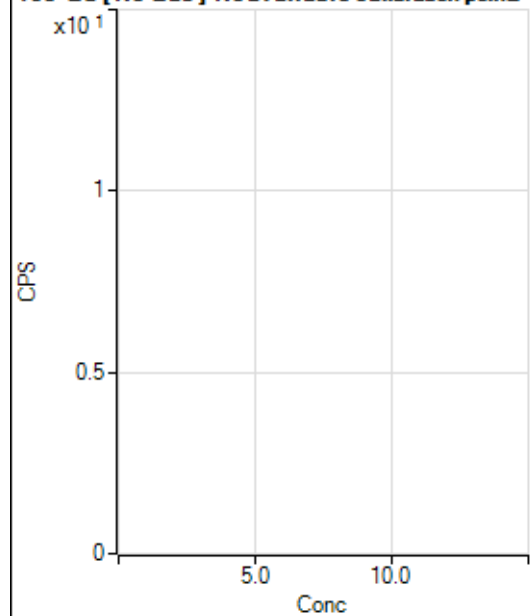
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			1.11		P	173.
4	☐			2.22		P	86.6
5	☐			1.11		P	173.
6	☐			15.56		P	32.7
7	☐			12.22		P	41.7
8	☐			8.89		P	86.6

156 Dy [No Gas] No available calibration points

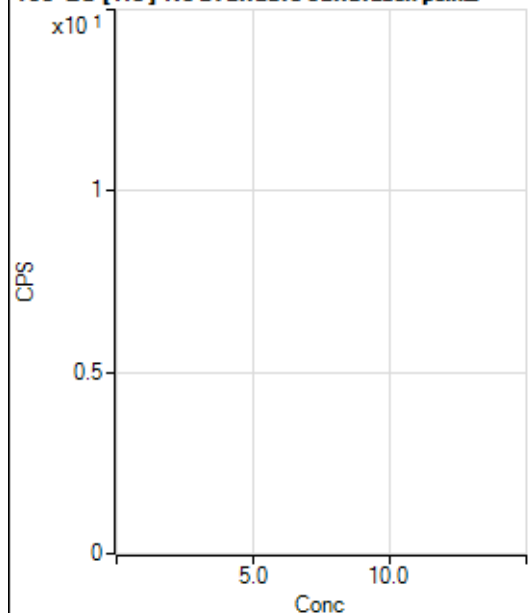
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐			13.89		P	173.
3	☐			8.33		P	173.
4	☐			27.78		P	105.
5	☐			36.11		P	13.3
6	☐			127.78		P	43.4
7	☐			150.01		P	45.5
8	☐			727.82		P	15.2

156 Dy [He] No available calibration points

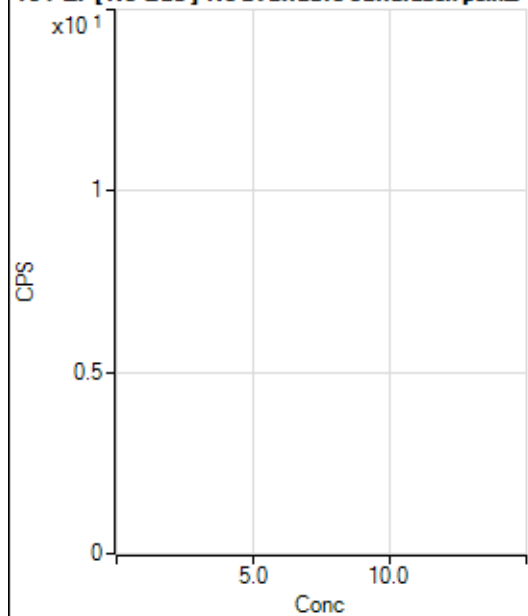
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			3.33		P	100.
3	☐			4.44		P	43.4
4	☐			17.78		P	65.8
5	☐			22.22		P	8.7
6	☐			47.78		P	10.7
7	☐			60.00		P	16.7
8	☐			296.68		P	3.9

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

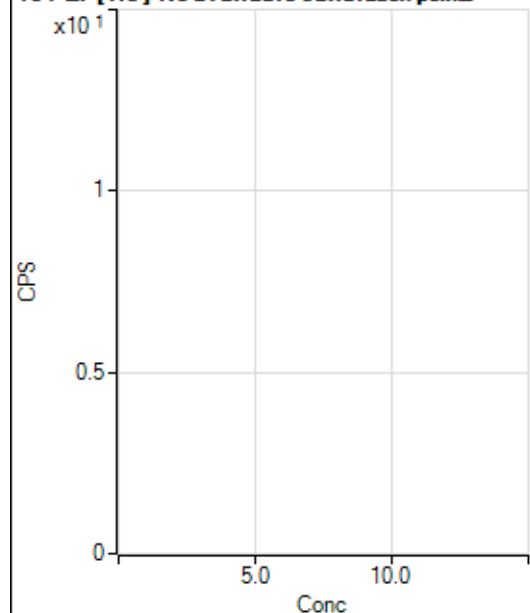
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.11		P	70.5
2	☐			30.56		P	41.7
3	☐			33.33		P	66.2
4	☐			72.23		P	26.7
5	☐			86.11		P	20.1
6	☐			113.89		P	4.2
7	☐			161.12		P	18.2
8	☐			783.38		P	2.1

160 Gd [He] No available calibration points

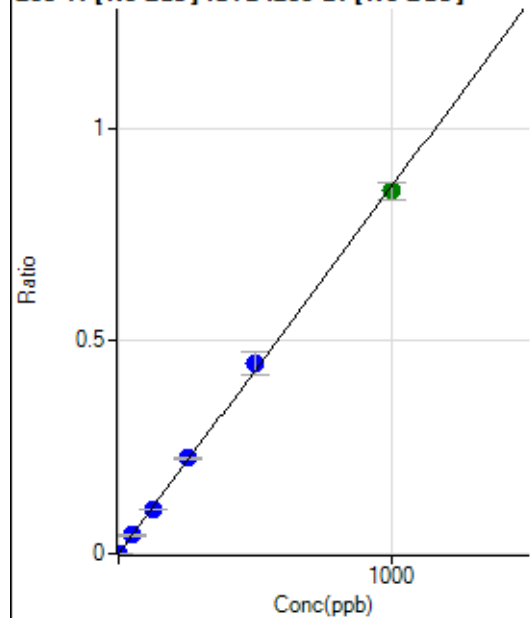
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			5.56		P	91.6
3	☐			20.00		P	28.9
4	☐			22.22		P	8.7
5	☐			38.89		P	13.1
6	☐			48.89		P	3.9
7	☐			100.00		P	6.7
8	☐			360.01		P	7.0

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	50.0
2	☐			22.22		P	78.1
3	☐			33.33		P	66.1
4	☐			25.00		P	66.7
5	☐			27.78		P	17.3
6	☐			44.45		P	28.7
7	☐			55.56		P	22.9
8	☐			94.45		P	25.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	100.
2	☐			12.22		P	41.7
3	☐			2.22		P	86.6
4	☐			10.00		P	33.3
5	☐			13.33		P	66.1
6	☐			24.45		P	15.8
7	☐			23.34		P	24.7
8	☐			53.33		P	12.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	72.22	0.0000	P	8.3
2	☐	1.000	0.963	1894.64	0.0009	P	9.0
3	☐	50.000	50.857	93438.48	0.0439	P	5.4
4	☐	125.000	120.686	233299.02	0.1041	P	0.8
5	☐	250.000	260.169	475210.39	0.2244	P	1.8
6	☐	500.000	519.205	964541.14	0.4477	P	11.8
7	☐	1000.000	988.352	1929809.01	0.8523	A	5.0
8	☐			738.93	0.0003	P	7.1

$$y = 8.6230E-004 * x + 3.4791E-005$$

$$R = 0.9996$$

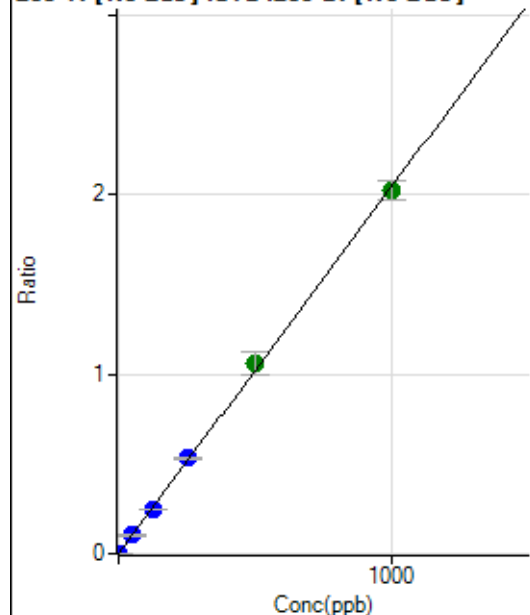
$$DL = 0.01011$$

$$BEC = 0.04035$$

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	194.45	0.0001	P	22.4
2	☐	1.000	0.957	4487.00	0.0020	P	1.1
3	☐	50.000	50.403	219216.68	0.1030	P	5.9
4	☐	125.000	122.024	558451.51	0.2492	P	0.9
5	☐	250.000	259.855	1123541.19	0.5306	P	2.3
6	☐	500.000	517.917	2277746.60	1.0574	A	11.9
7	☐	1000.000	988.930	4571070.42	2.0189	A	5.2
8	☐			1611.26	0.0007	P	9.5

$$y = 0.0020 * x + 9.4108E-005$$

$$R = 0.9997$$

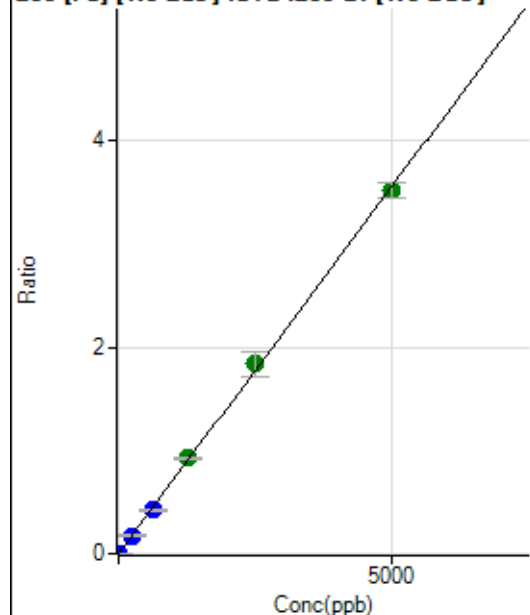
$$DL = 0.03098$$

$$BEC = 0.0461$$

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	144.45	0.0001	P	22.0
2	☐	1.000	0.910	1566.79	0.0007	P	0.3
3	☐	250.000	245.267	370765.26	0.1743	P	7.2
4	☐	625.000	592.979	943907.48	0.4212	P	1.5
5	☐	1250.000	1303.527	1960650.14	0.9259	A	2.8
6	☐	2500.000	2585.383	3952478.07	1.8364	A	13.0
7	☐	5000.000	4948.166	7959155.56	3.5145	A	4.3
8	☐			14410.09	0.0065	P	4.2

$$y = 7.1026E-004 * x + 6.9224E-005$$

$$R = 0.9997$$

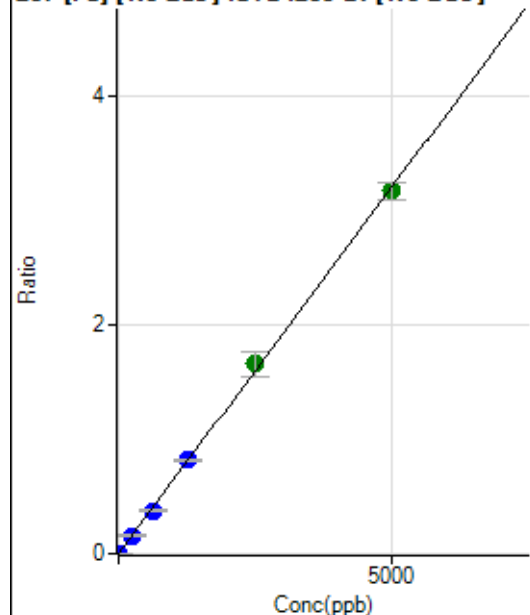
$$DL = 0.06445$$

$$BEC = 0.09746$$

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	127.78	0.0001	P	6.1
2	☐	1.000	0.923	1426.03	0.0007	P	7.1
3	☐	250.000	246.513	335092.21	0.1575	P	7.1
4	☐	625.000	589.431	843611.53	0.3765	P	2.2
5	☐	1250.000	1273.776	1722870.15	0.8136	P	2.4
6	☐	2500.000	2587.096	3555566.86	1.6523	A	13.3
7	☐	5000.000	4955.128	7166464.28	3.1647	A	4.8
8	☐			12867.69	0.0058	P	4.1

$$y = 6.3866E-004 * x + 6.1583E-005$$

$$R = 0.9997$$

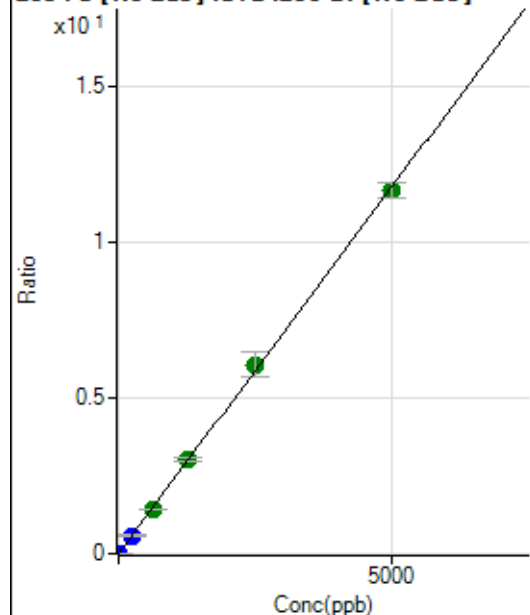
$$DL = 0.01754$$

$$BEC = 0.09643$$

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	495.95	0.0002	P	5.0
2	☐	1.000	0.934	5321.04	0.0024	P	4.3
3	☐	250.000	246.714	1232891.34	0.5794	P	6.7
4	☐	625.000	602.707	3171054.69	1.4151	A	1.1
5	☐	1250.000	1297.151	6446675.83	3.0452	A	3.9
6	☐	2500.000	2578.955	13032615.06	6.0542	A	12.8
7	☐	5000.000	4951.686	26324257.71	11.6240	A	4.3
8	☐			48006.10	0.0217	P	4.5

$$y = 0.0023 * x + 2.3809E-004$$

$$R = 0.9997$$

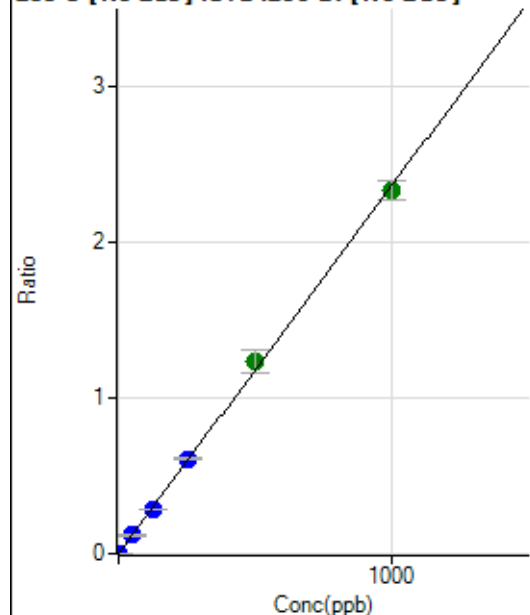
$$DL = 0.01509$$

$$BEC = 0.1014$$

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	16.67	0.0000	P	53.7
2	☐	1.000	0.997	5159.52	0.0024	P	1.7
3	☐	50.000	49.693	249230.66	0.1171	P	5.6
4	☐	125.000	120.290	634964.86	0.2834	P	2.0
5	☐	250.000	258.530	1289393.14	0.6090	P	3.5
6	☐	500.000	523.372	2655077.21	1.2329	A	12.3
7	☐	1000.000	986.786	5263288.44	2.3246	A	5.3
8	☐			619.48	0.0003	P	2.8

$$y = 0.0024 * x + 8.0866E-006$$

$$R = 0.9995$$

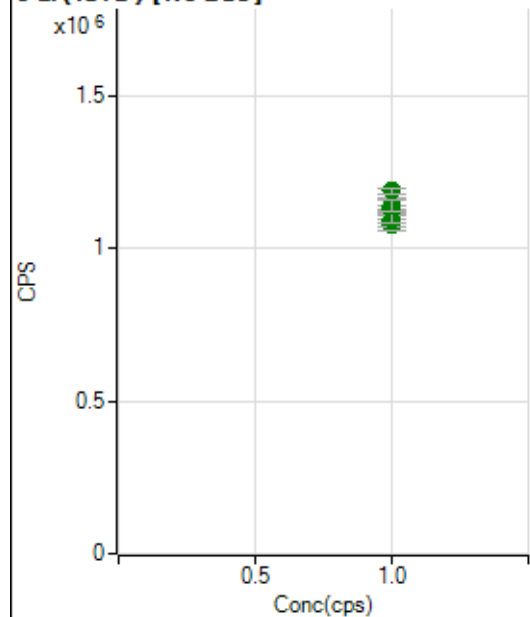
$$DL = 0.005529$$

$$BEC = 0.003433$$

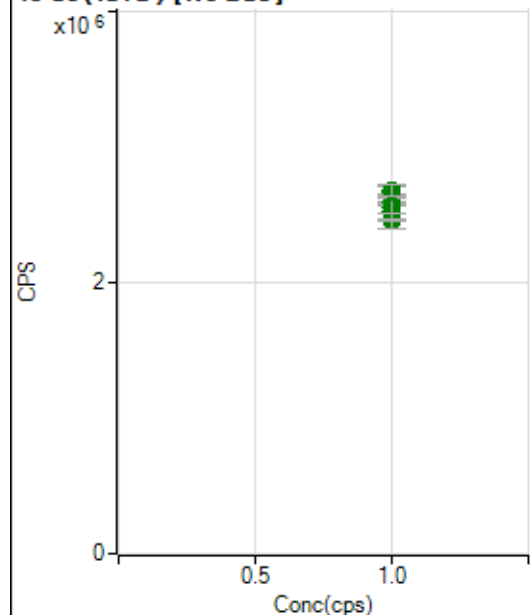
Weight: <None>

Min Conc: 0

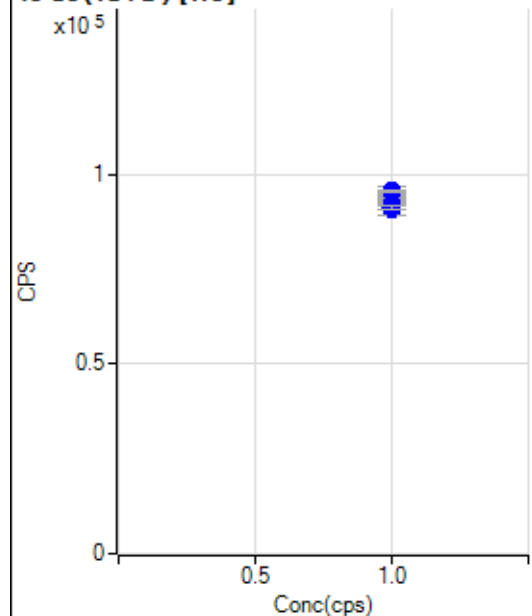
6 Li (ISTD) [No Gas]



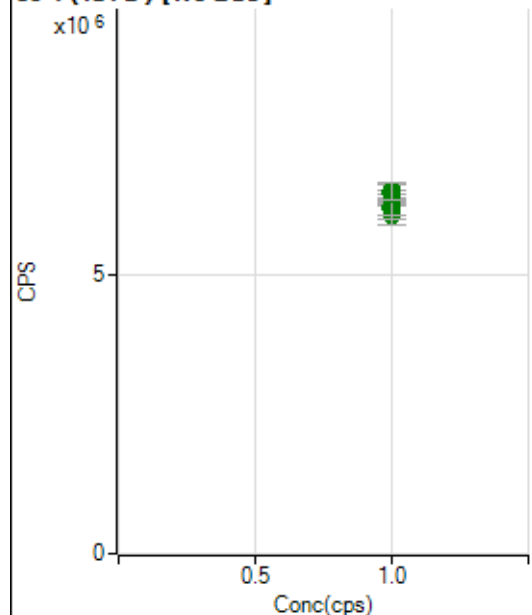
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1075650.60		A	3.6
2	☐	1.000		1120738.13		A	1.4
3	☐	1.000		1092290.11		A	3.4
4	☐	1.000		1133727.76		A	0.8
5	☐	1.000		1096633.56		A	2.7
6	☐	1.000		1126795.74		A	7.2
7	☐	1.000		1138830.66		A	3.4
8	☐	1.000		1188278.47		A	1.8

45 Sc (ISTD) [No Gas]

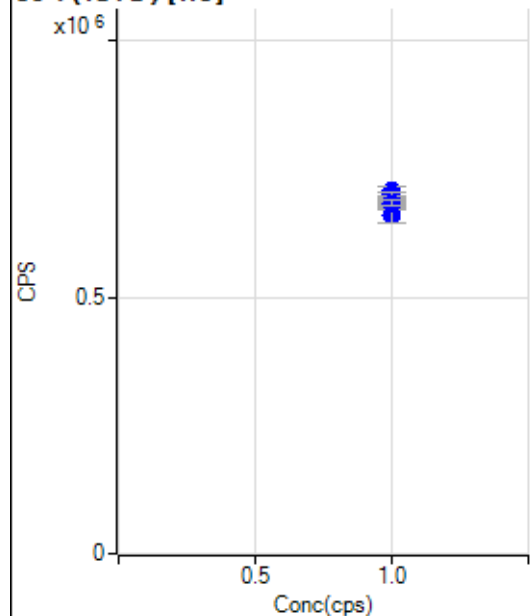
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2453676.07		A	5.0
2	☐	1.000		2569209.06		A	0.3
3	☐	1.000		2527256.72		A	5.6
4	☐	1.000		2632455.77		A	0.8
5	☐	1.000		2548274.15		A	2.7
6	☐	1.000		2590158.50		A	9.9
7	☐	1.000		2659381.07		A	3.2
8	☐	1.000		2672693.14		A	3.2

45 Sc (ISTD) [He]

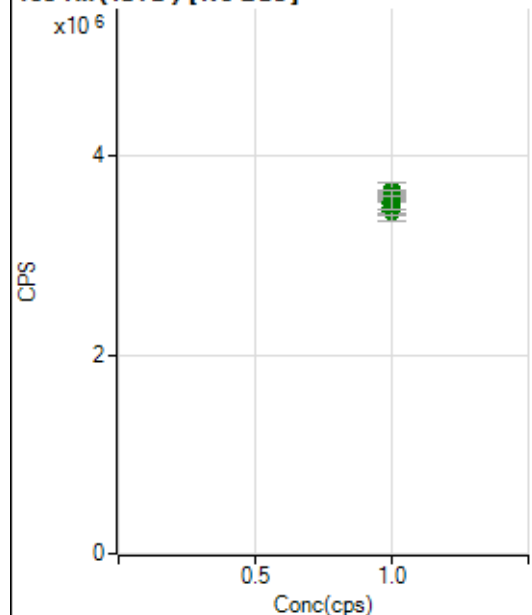
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		93069.90		P	0.7
2	☐	1.000		90715.24		P	3.2
3	☐	1.000		94127.84		P	0.9
4	☐	1.000		95423.06		P	2.6
5	☐	1.000		93729.57		P	0.2
6	☐	1.000		95044.97		P	0.5
7	☐	1.000		95630.89		P	0.6
8	☐	1.000		91352.23		P	1.4

89 Y (ISTD) [No Gas]

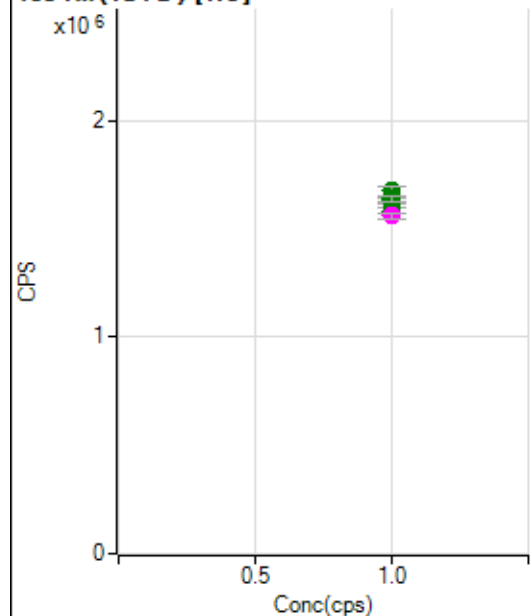
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6072423.31		A	5.2
2	☐	1.000		6316375.53		A	0.3
3	☐	1.000		6206887.48		A	6.2
4	☐	1.000		6485669.97		A	1.1
5	☐	1.000		6180337.69		A	3.7
6	☐	1.000		6249084.21		A	11.6
7	☐	1.000		6446880.25		A	2.7
8	☐	1.000		6511368.38		A	4.9

89 Y (ISTD) [He]

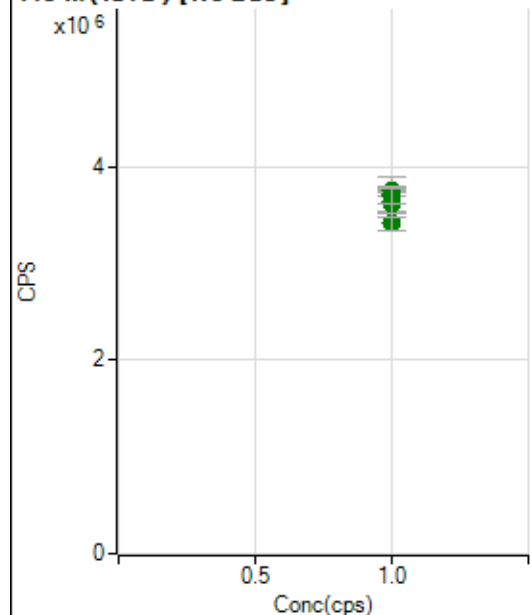
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		679317.69		P	1.1
2	☐	1.000		659459.04		P	4.1
3	☐	1.000		692635.38		P	1.1
4	☐	1.000		707438.76		P	2.5
5	☐	1.000		689292.05		P	1.2
6	☐	1.000		692448.99		P	0.8
7	☐	1.000		701494.82		P	1.2
8	☐	1.000		683437.78		P	1.7

103 Rh (ISTD) [No Gas]

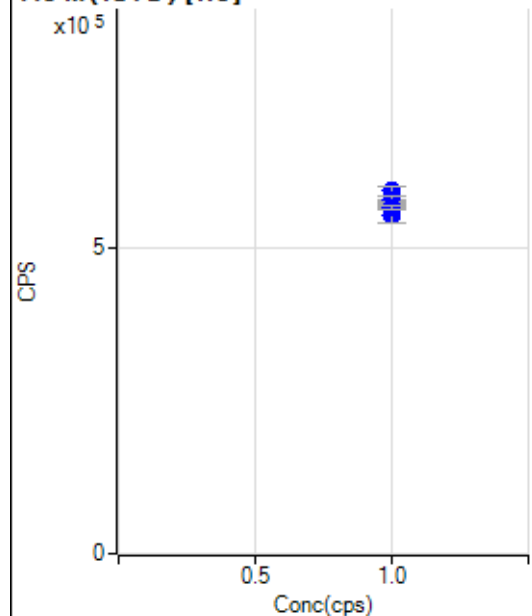
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3443186.99		A	6.0
2	☐	1.000		3588831.46		A	1.1
3	☐	1.000		3528462.69		A	6.3
4	☐	1.000		3646418.61		A	0.5
5	☐	1.000		3471108.76		A	4.0
6	☐	1.000		3537939.01		A	10.5
7	☐	1.000		3604337.71		A	2.9
8	☐	1.000		3523960.63		A	3.6

103 Rh (ISTD) [He]

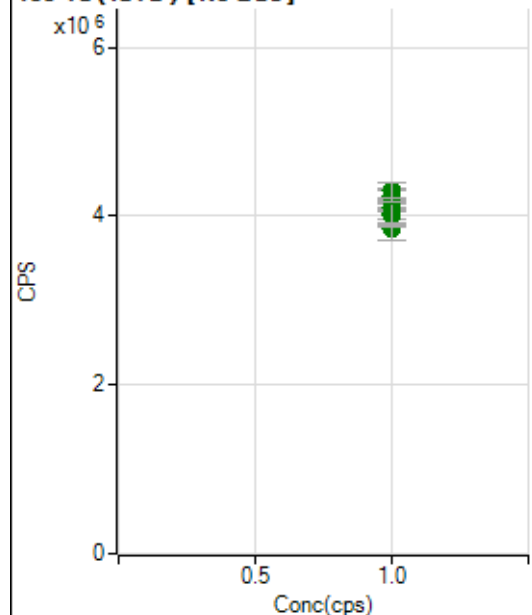
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1614277.44		A	1.4
2	☐	1.000		1583573.50		A	4.4
3	☐	1.000		1647054.27		A	0.7
4	☐	1.000		1676935.91		A	2.6
5	☐	1.000		1633963.38		A	1.1
6	☐	1.000		1639687.63		A	1.2
7	☐	1.000		1641308.20		A	1.4
8	☐	1.000		1560399.51		M	1.2

115 In (ISTD) [No Gas]

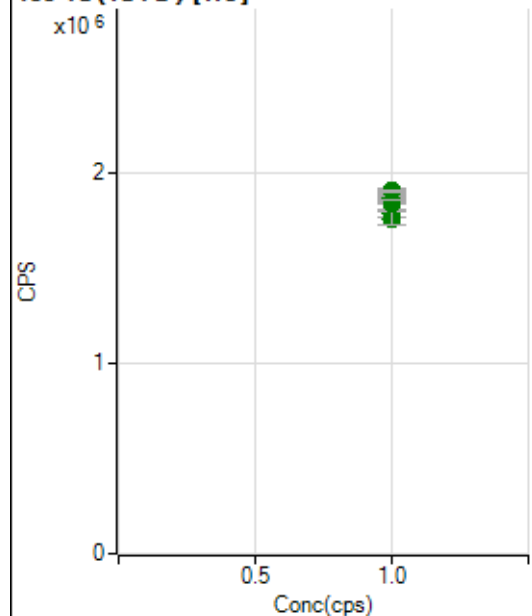
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3428802.21		A	5.8
2	☐	1.000		3717410.91		A	0.7
3	☐	1.000		3642309.44		A	6.0
4	☐	1.000		3743982.71		A	0.7
5	☐	1.000		3611645.02		A	4.7
6	☐	1.000		3692644.25		A	11.5
7	☐	1.000		3750385.90		A	2.7
8	☐	1.000		3694104.07		A	4.5

115 In (ISTD) [He]

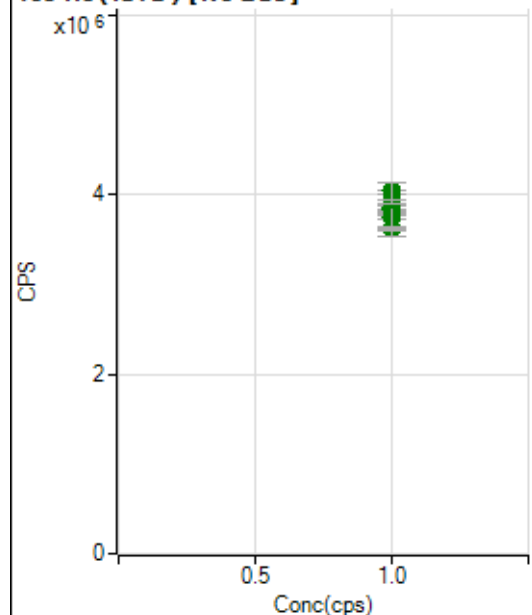
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		571060.23		P	0.6
2	☐	1.000		555036.72		P	4.4
3	☐	1.000		580197.12		P	0.4
4	☐	1.000		594918.63		P	2.3
5	☐	1.000		575765.14		P	0.3
6	☐	1.000		576985.74		P	0.4
7	☐	1.000		581000.29		P	1.5
8	☐	1.000		567492.24		P	1.3

159 Tb (ISTD) [No Gas]

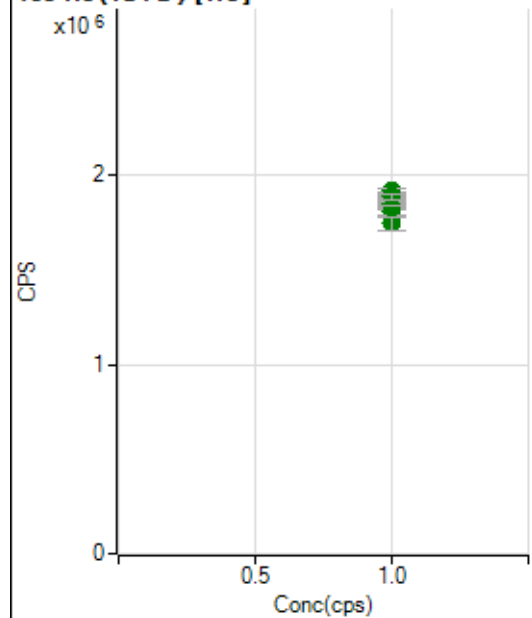
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3843927.79		A	6.3
2	☐	1.000		4085259.83		A	0.8
3	☐	1.000		4030378.13		A	6.3
4	☐	1.000		4201460.08		A	0.5
5	☐	1.000		4007282.13		A	4.0
6	☐	1.000		4095222.06		A	11.1
7	☐	1.000		4248278.93		A	3.2
8	☐	1.000		4299939.34		A	4.2

159 Tb (ISTD) [He]

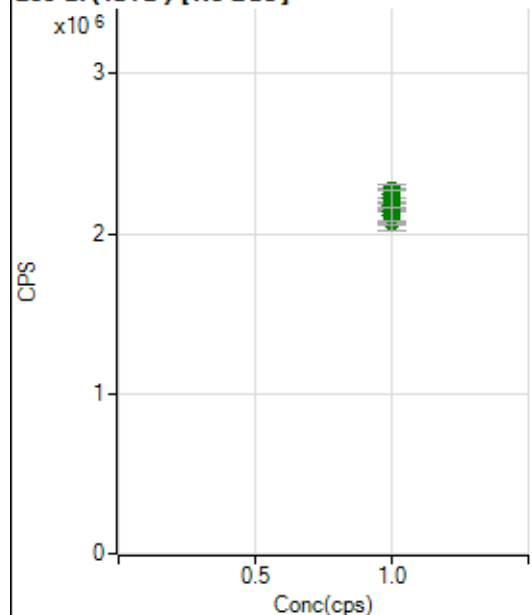
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1784930.56		A	2.4
2	☐	1.000		1758132.32		A	4.0
3	☐	1.000		1840503.67		A	0.4
4	☐	1.000		1905606.43		A	1.8
5	☐	1.000		1861394.75		A	0.8
6	☐	1.000		1873145.04		A	1.1
7	☐	1.000		1904299.95		A	0.7
8	☐	1.000		1904369.71		A	1.0

165 Ho (ISTD) [No Gas]

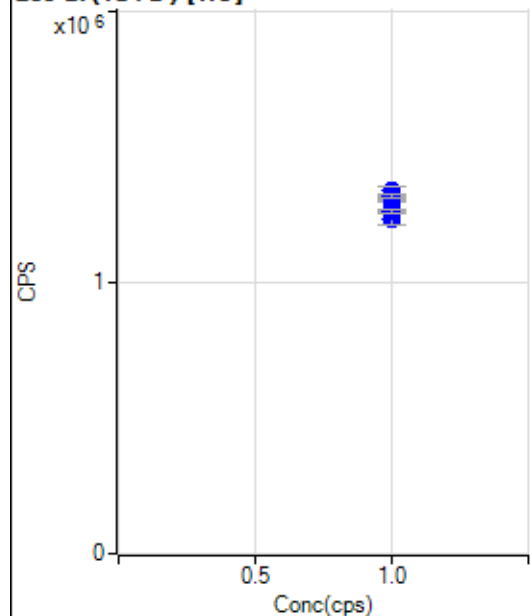
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3629527.60		A	5.5
2	☐	1.000		3793166.84		A	0.7
3	☐	1.000		3756943.66		A	7.4
4	☐	1.000		3856153.34		A	1.6
5	☐	1.000		3745282.46		A	5.1
6	☐	1.000		3829599.57		A	12.0
7	☐	1.000		3954980.69		A	2.6
8	☐	1.000		4045112.98		A	4.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1803846.97		A	1.3
2	☐	1.000		1745079.71		A	3.9
3	☐	1.000		1836132.40		A	0.9
4	☐	1.000		1903568.91		A	2.9
5	☐	1.000		1848363.22		A	1.5
6	☐	1.000		1887172.96		A	0.7
7	☐	1.000		1917093.60		A	1.0
8	☐	1.000		1889235.49		A	1.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2080109.45		A	6.2
2	☐	1.000		2190273.85		A	0.8
3	☐	1.000		2133434.05		A	5.8
4	☐	1.000		2241291.74		A	2.1
5	☐	1.000		2118718.28		A	3.4
6	☐	1.000		2172497.38		A	10.7
7	☐	1.000		2267011.65		A	3.7
8	☐	1.000		2216990.05		A	4.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1268952.68		P	0.5
2	☐	1.000		1233602.45		P	4.1
3	☐	1.000		1297862.32		P	0.3
4	☐	1.000		1336892.46		P	2.5
5	☐	1.000		1307015.53		P	0.4
6	☐	1.000		1308008.75		P	0.5
7	☐	1.000		1320973.70		P	1.1
8	☐	1.000		1263729.50		P	1.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8012221MS.b
Acq. Date-Time 2021-01-22 11:40:55
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		2695	26950.40			3.206	5.000
24		38294	382936.28			2.752	5.000
25		5128	51279.32			2.797	5.000
26		5982	59815.80			2.696	5.000
59		6112	61117.32			2.789	5.000
113		2826	28258.10			2.561	5.000
115		10175	101749.09			2.020	5.000
206		3096	30958.17			2.506	5.000
207		2589	25887.85			2.447	5.000
208		6303	63034.66			2.748	5.000
220		1	8.30			14.508	

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

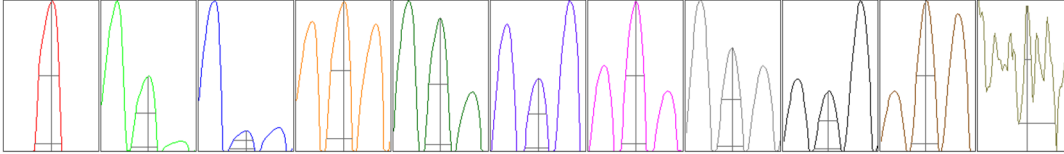
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2579	2746	2778	2744	2629
24	36912	38547	39230	39276	37502
25	4942	5183	5255	5249	5011
26	5760	6068	6094	6125	5862
59	5861	6160	6198	6306	6034
113	2729	2846	2886	2895	2774
115	9987	10284	10301	10381	9923
206	2985	3092	3186	3149	3067
207	2494	2580	2632	2660	2578
208	6051	6354	6399	6496	6216

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	4500.87	9.05	8.90 - 9.10	
24	64539.10	24.00	23.90 - 24.10	
25	8635.73	25.05	24.90 - 25.10	
26	9976.19	26.05	25.90 - 26.10	
59	10902.34	59.00	58.90 - 59.10	
113	5188.96	113.05	112.90 - 113.10	
115	18736.95	115.05	114.90 - 115.10	
206	5518.66	206.00	205.90 - 206.10	
207	4544.06	206.95	206.90 - 207.10	
208	11456.53	207.95	207.90 - 208.10	
220	1.35	220.10	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.828	0.900	
24	0.63	0.829	0.900	
25	0.61	0.798	0.900	
26	0.63	0.808	0.900	
59	0.59	0.821	0.900	
113	0.57	0.741	0.900	
115	0.57	0.779	0.900	
206	0.59	0.828	0.900	
207	0.59	0.830	0.900	
208	0.58	0.848	0.900	
220	0.22	1.160		

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 0.47 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	7.7 V	Deflect	15.0 V
Extract 2	-230.0 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	200 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		1398	13984.42			1.734	
89		7652	76523.18			1.155	
205		2671	26711.68			1.400	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	1374	1386	1424	1425	1383
89	7590	7633	7738	7749	7551
205	2687	2648	2668	2725	2628

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.47 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	7.7 V	Deflect	5.0 V
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US EPA Tune Check Report

Extract 2	-230.0 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	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