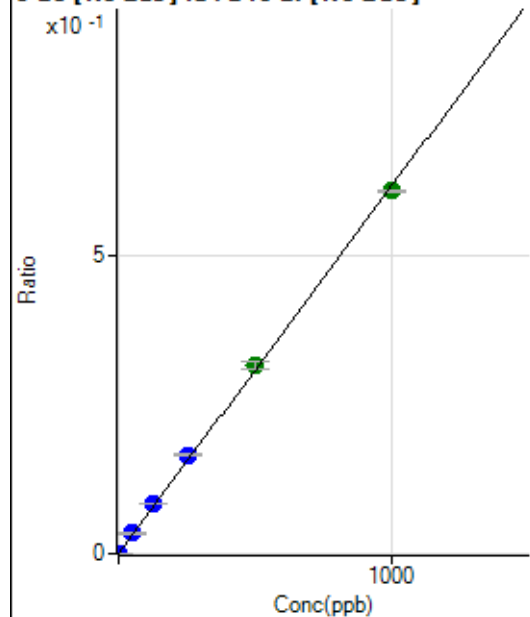


Calibration for 108SMPL.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7121322-MS.b\
 Analysis File: P7121322-MS.batch.bin
 DA Date-Time: 2022-12-13 17:50:46
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-12-13 12:20:50
2	005CALS.d	S02	2022-12-13 12:23:43
3	006CALS.d	S03	2022-12-13 12:26:36
4	007CALS.d	S04	2022-12-13 12:29:20
5	008CALS.d	S05	2022-12-13 12:32:14
6	009CALS.d	S06	2022-12-13 12:34:59
7	010CALS.d	S07	2022-12-13 12:37:45
8	011CALS.d	S08	2022-12-13 12:41:05

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	29.7
2	☐	1.000	1.062	2461.33	0.0007	P	0.9
3	☐	50.000	55.473	125388.12	0.0341	P	2.0
4	☐	125.000	136.576	300441.14	0.0840	P	3.0
5	☐	250.000	269.472	578118.77	0.1658	P	3.3
6	☐	500.000	512.006	1078789.59	0.3151	A	4.8
7	☐	1000.000	987.408	2060501.90	0.6076	A	0.8
8	☐			834.47	0.0003	P	4.0

$$y = 6.1535\text{E-}004 * x + 6.9588\text{E-}006$$

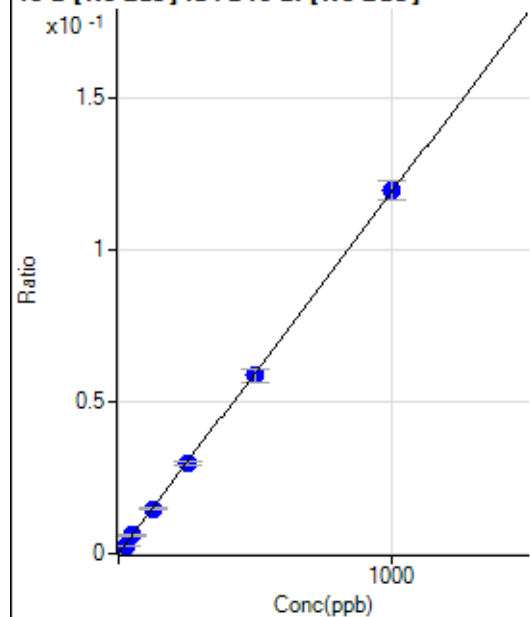
$$R = 0.9997$$

$$DL = 0.01006$$

$$BEC = 0.01131$$

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	302.79	0.0001	P	12.2
2	☐	25.000	21.294	9717.16	0.0026	P	4.5
3	☐	50.000	50.632	22388.84	0.0061	P	5.0
4	☐	125.000	124.103	53052.48	0.0148	P	2.4
5	☐	250.000	247.980	103058.24	0.0296	P	4.6
6	☐	500.000	493.123	200934.01	0.0587	P	7.8
7	☐	1000.000	1004.117	405127.82	0.1195	P	5.3
8	☐			15041.04	0.0050	P	6.0

$$y = 1.1890\text{E-}004 * x + 7.7805\text{E-}005$$

$$R = 1.0000$$

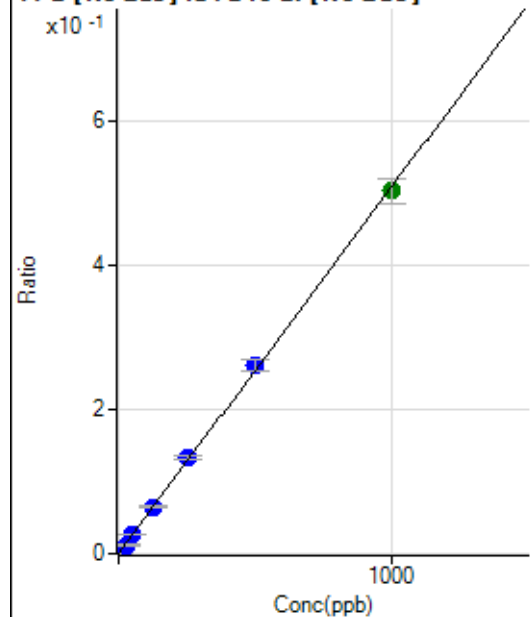
$$DL = 0.24$$

$$BEC = 0.6544$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1363.98	0.0004	P	15.1
2	☐	25.000	22.199	43236.11	0.0116	P	8.5
3	☐	50.000	52.223	98597.02	0.0268	P	4.8
4	☐	125.000	127.338	232238.81	0.0650	P	3.7
5	☐	250.000	260.671	462242.00	0.1326	P	4.8
6	☐	500.000	514.655	894920.20	0.2614	P	6.4
7	☐	1000.000	989.672	1703816.01	0.5024	A	6.7
8	☐			67640.33	0.0223	P	10.5

$$y = 5.0728\text{E-}004 * x + 3.5489\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.3179$$

$$BEC = 0.6996$$

Weight: <None>

Min Conc: 0

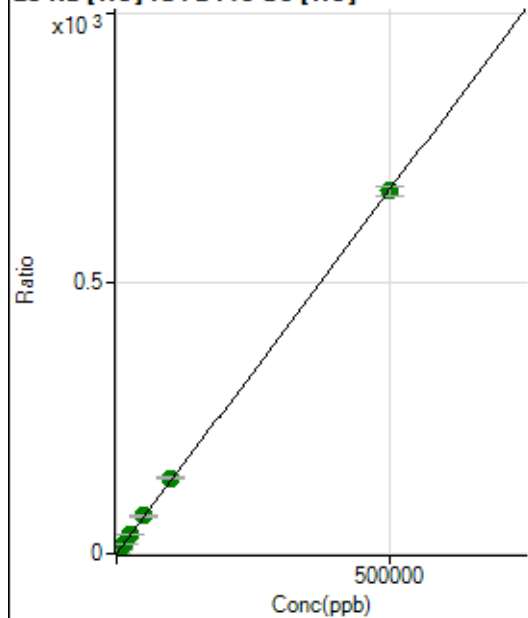
12 C [No Gas] No available calibration points



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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25831.12	0.0563	P	1.2
2	☐	500.000	494.176	336151.89	0.7201	P	3.9
3	☐	5000.000	5314.997	3287955.77	7.1963	A	3.7
4	☐	12500.000	13222.763	7798481.89	17.8195	A	3.4
5	☐	25000.000	26052.595	15427898.49	35.0549	A	3.2
6	☐	50000.000	51950.366	30760579.85	69.8455	A	3.0
7	☐	100000.00	103803.55	60600261.54	139.5041	A	2.7
8	☐	500000.00	498970.40	290257454.6	670.3641	A	3.0

$$y = 0.0013 * x + 0.0563$$

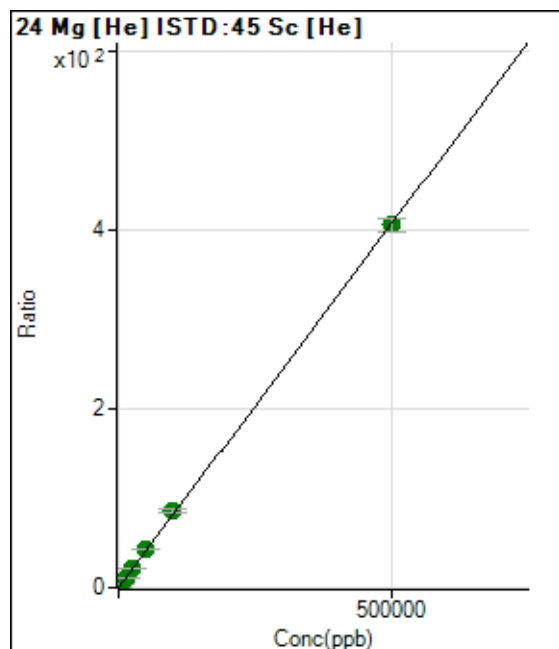
$$R = 1.0000$$

$$DL = 1.47$$

$$BEC = 41.89$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	353.71	0.0008	P	17.9
2	☐	500.000	503.958	191999.41	0.4114	P	4.4
3	☐	5000.000	5427.853	2019928.75	4.4232	A	5.9
4	☐	12500.000	13736.704	4898741.78	11.1930	A	3.0
5	☐	25000.000	26302.236	9432690.14	21.4309	A	2.8
6	☐	50000.000	52565.546	18862497.65	42.8293	A	2.9
7	☐	100000.00	104767.17	37066825.83	85.3613	A	4.4
8	☐	500000.00	498689.69	175909237.2	406.3154	A	3.6

$$y = 8.1476\text{E-}004 * x + 7.7241\text{E-}004$$

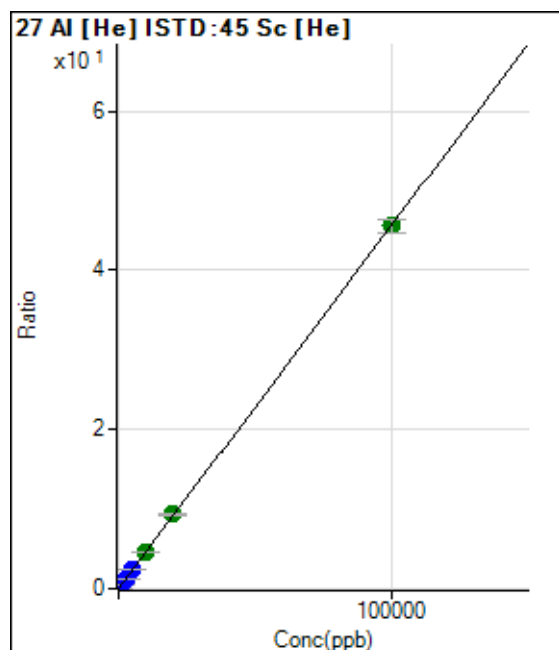
$$R = 0.9999$$

$$DL = 0.5099$$

$$BEC = 0.948$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	500.02	0.0011	P	12.1
2	☐	20.000	17.978	4337.73	0.0093	P	3.1
3	☐	1000.000	1066.245	222746.45	0.4875	P	3.4
4	☐	2500.000	2696.264	538795.74	1.2311	P	2.9
5	☐	5000.000	5244.941	1053640.26	2.3937	P	2.4
6	☐	10000.000	10128.671	2035455.44	4.6216	A	2.9
7	☐	20000.000	20523.640	4067068.49	9.3636	A	3.2
8	☐	100000.00	99864.589	19723559.70	45.5576	A	3.6

$$y = 4.5618\text{E-}004 * x + 0.0011$$

$$R = 1.0000$$

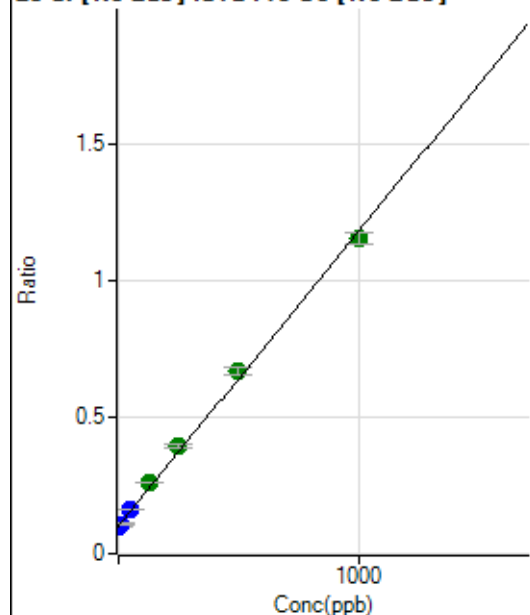
$$DL = 0.8646$$

$$BEC = 2.389$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	634942.24	0.1018	P	9.8
2	☐	10.000	5.297	651475.63	0.1075	P	3.8
3	☐	50.000	57.880	966988.69	0.1642	P	1.2
4	☐	125.000	147.993	1493030.17	0.2613	A	1.8
5	☐	250.000	271.521	2233303.61	0.3944	A	4.4
6	☐	500.000	525.954	3737590.27	0.6686	A	4.1
7	☐	1000.000	978.422	6648235.57	1.1562	A	3.6
8	☐			815965.60	0.1489	P	7.0

$$y = 0.0011 * x + 0.1018$$

$$R = 0.9990$$

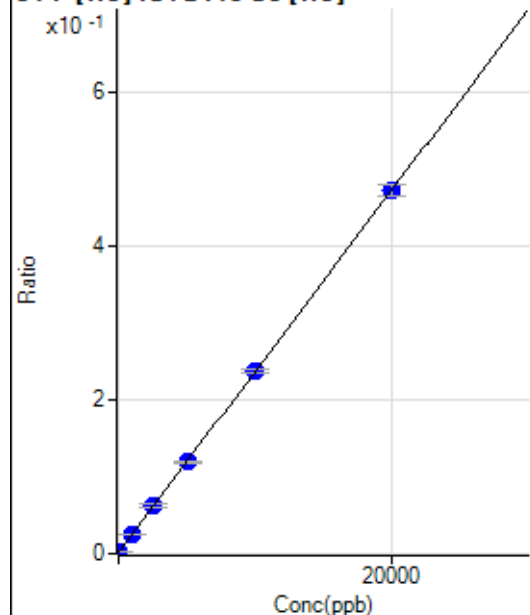
$$DL = 27.84$$

$$BEC = 94.47$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-4.970	713.92	0.0016	P	9.0
2	☐	0.000	4.970	833.38	0.0018	P	13.6
3	☐	1000.000	997.149	11504.63	0.0252	P	2.5
4	☐	2500.000	2581.904	27344.51	0.0625	P	6.5
5	☐	5000.000	4981.625	52407.36	0.1191	P	2.6
6	☐	10000.000	10029.037	104832.51	0.2380	P	2.5
7	☐	20000.000	19979.980	205238.15	0.4725	P	3.2
8	☐			738.93	0.0017	P	9.3

$$y = 2.3566E-005 * x + 0.0017$$

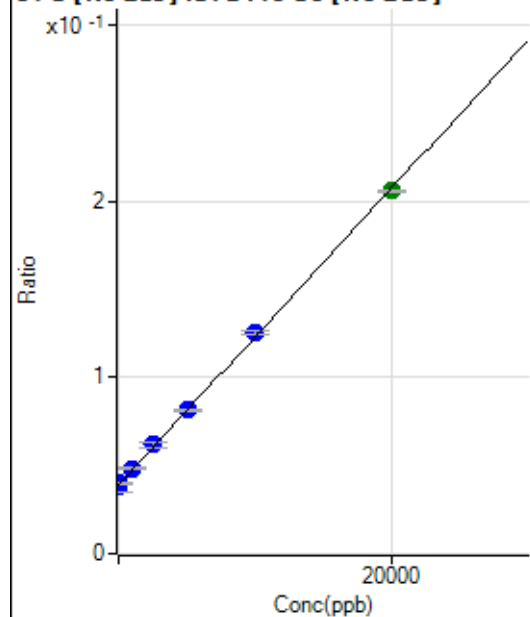
$$R = 1.0000$$

$$DL = 24.36$$

$$BEC = 70.94$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-102.936	236942.49	0.0381	P	14.1
2	☐	0.000	102.936	241600.56	0.0399	P	4.4
3	☐	1000.000	1130.188	285813.98	0.0485	P	2.4
4	☐	2500.000	2712.586	353354.73	0.0619	P	4.3
5	☐	5000.000	5034.411	461205.66	0.0814	P	2.3
6	☐	10000.000	10302.956	703557.05	0.1258	P	1.9
7	☐	20000.000	19806.837	1184186.54	0.2059	A	0.7
8	☐			217531.68	0.0397	P	3.8

$$y = 8.4282\text{E-}006 * x + 0.0390$$

R = 0.9998

DL = 1269

BEC = 4629

Weight: <None>

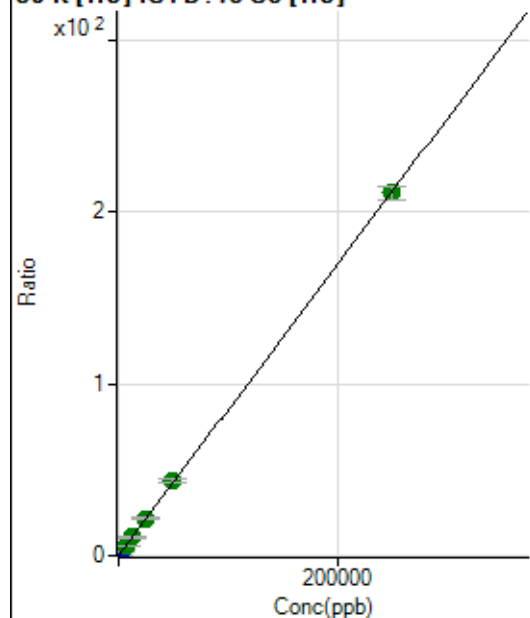
Min Conc: 0

35 Cl [No Gas] No available calibration points

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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	38003.73	0.0828	P	3.8
2	☐	500.000	506.620	238513.84	0.5110	P	4.3
3	☐	2500.000	2818.186	1126100.53	2.4648	P	3.9
4	☐	6250.000	6472.026	2430431.78	5.5532	A	2.8
5	☐	12500.000	12582.538	4717233.65	10.7179	A	2.9
6	☐	25000.000	25398.288	9489644.48	21.5501	A	3.7
7	☐	50000.000	51549.828	18958743.31	43.6540	A	3.8
8	☐	250000.00	249637.33	91387779.82	211.0823	A	3.4

$$y = 8.4522\text{E-}004 * x + 0.0828$$

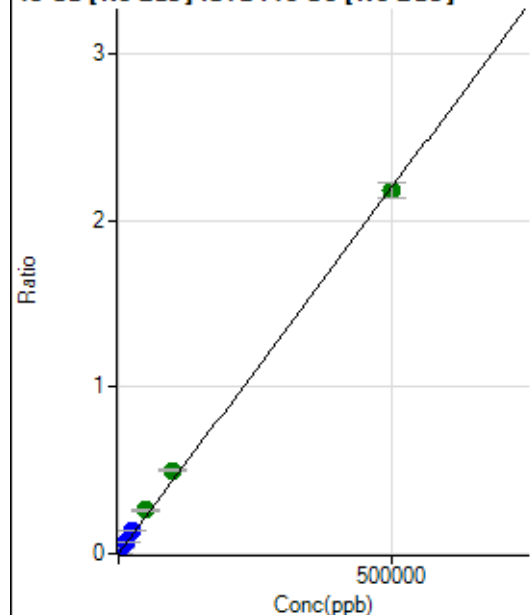
$$R = 1.0000$$

$$DL = 11.06$$

$$BEC = 98.01$$

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	125.01	0.0000	P	25.5
2	☐	500.000	518.623	13901.15	0.0023	P	5.8
3	☐	5000.000	6613.608	170996.37	0.0290	P	0.9
4	☐	12500.000	16034.601	401931.01	0.0704	P	3.1
5	☐	25000.000	31568.571	784195.16	0.1385	P	3.8
6	☐	50000.000	59466.621	1458570.00	0.2609	A	2.2
7	☐	100000.00	114084.68	2877058.72	0.5005	A	2.1
8	☐	500000.00	495803.45	11926168.15	2.1749	A	4.1

$$y = 4.3866\text{E-}006 * x + 2.0240\text{E-}005$$

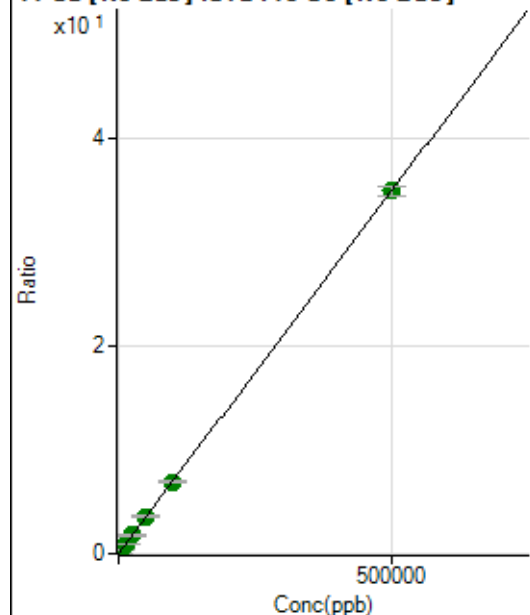
$$R = 0.9995$$

$$DL = 3.523$$

$$BEC = 4.614$$

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	11726.22	0.0019	P	9.4
2	☐	500.000	513.570	229182.13	0.0378	P	4.5
3	☐	5000.000	5408.502	2240948.87	0.3805	A	1.9
4	☐	12500.000	12927.680	5179700.83	0.9068	A	3.7
5	☐	25000.000	25362.660	10064329.05	1.7773	A	3.0
6	☐	50000.000	51184.974	20042436.29	3.5848	A	2.1
7	☐	100000.00	98925.547	39824731.92	6.9267	A	1.3
8	☐	500000.00	500063.47	192015140.6	35.0064	A	2.8

$$y = 7.0000\text{E-}005 * x + 0.0019$$

$$R = 1.0000$$

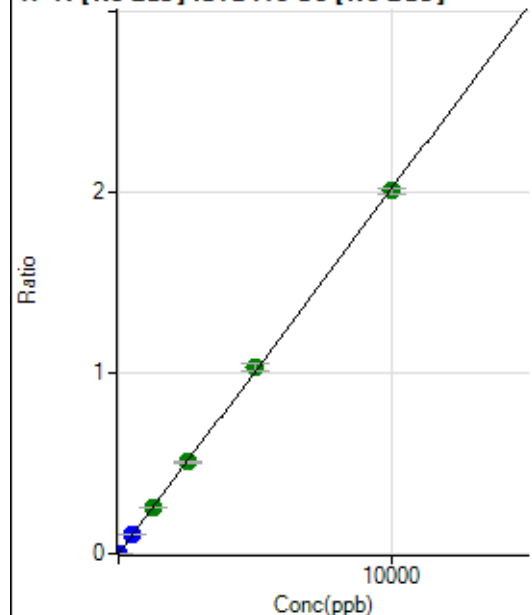
$$DL = 7.563$$

$$BEC = 26.83$$

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	122.23	0.0000	P	30.2
2	☐	5.000	4.864	6076.40	0.0010	P	4.9
3	☐	500.000	534.382	636049.15	0.1080	P	1.5
4	☐	1250.000	1263.889	1459142.67	0.2554	A	3.1
5	☐	2500.000	2504.689	2866163.58	0.5061	A	2.4
6	☐	5000.000	5100.898	5761945.36	1.0307	A	4.0
7	☐	10000.000	9944.923	11552625.35	2.0095	A	1.9
8	☐			3770.02	0.0007	P	13.2

$$y = 2.0206\text{E-}004 * x + 1.9306\text{E-}005$$

$$R = 0.9999$$

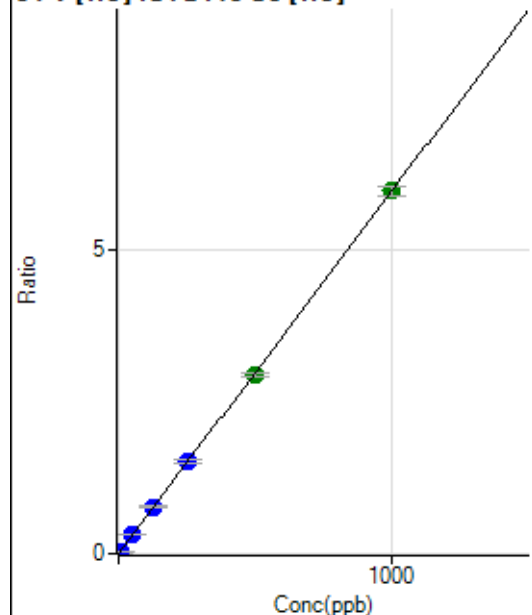
$$DL = 0.08644$$

$$BEC = 0.09554$$

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	5.56	0.0000	P	92.8
2	☐	5.000	4.685	13057.98	0.0280	P	6.3
3	☐	50.000	51.463	140431.65	0.3074	P	3.4
4	☐	125.000	129.846	339378.45	0.7755	P	3.0
5	☐	250.000	255.410	671341.90	1.5253	P	2.7
6	☐	500.000	492.752	1296022.21	2.9427	A	2.8
7	☐	1000.000	1001.594	2598292.86	5.9815	A	3.0
8	☐			887.81	0.0021	P	7.1

$$y = 0.0060 * x + 1.2017\text{E-}005$$

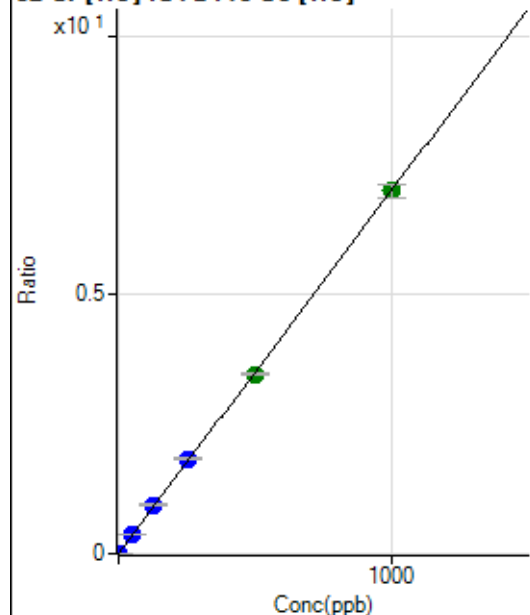
$$R = 0.9999$$

$$DL = 0.005602$$

$$BEC = 0.002012$$

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	860.03	0.0019	P	7.7
2	☐	2.000	1.955	7274.03	0.0156	P	3.8
3	☐	50.000	52.841	170067.29	0.3723	P	4.3
4	☐	125.000	133.963	411828.60	0.9409	P	2.7
5	☐	250.000	260.891	805789.61	1.8307	P	2.4
6	☐	500.000	493.939	1526361.76	3.4643	A	0.5
7	☐	1000.000	999.045	3042482.32	7.0051	A	3.5
8	☐			18093.15	0.0418	P	3.0

$$y = 0.0070 * x + 0.0019$$

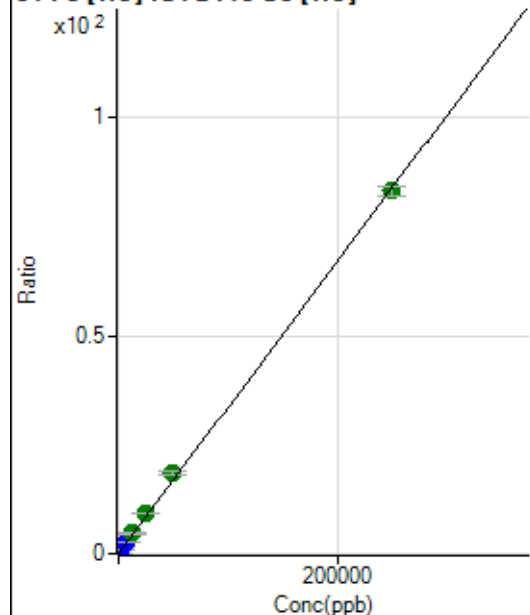
$$R = 0.9999$$

$$DL = 0.06203$$

$$BEC = 0.2674$$

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	2282.52	0.0050	P	11.3
2	☐	50.000	53.620	10701.41	0.0229	P	5.7
3	☐	2500.000	3083.163	474197.42	1.0379	P	3.8
4	☐	6250.000	7751.837	1138847.09	2.6021	P	2.7
5	☐	12500.000	14025.862	2070313.13	4.7040	A	3.1
6	☐	25000.000	27578.360	4071347.92	9.2445	A	3.0
7	☐	50000.000	55323.254	8053077.74	18.5398	A	3.0
8	☐	250000.00	248557.84	36058331.64	83.2788	A	3.0

$$y = 3.3503E-004 * x + 0.0050$$

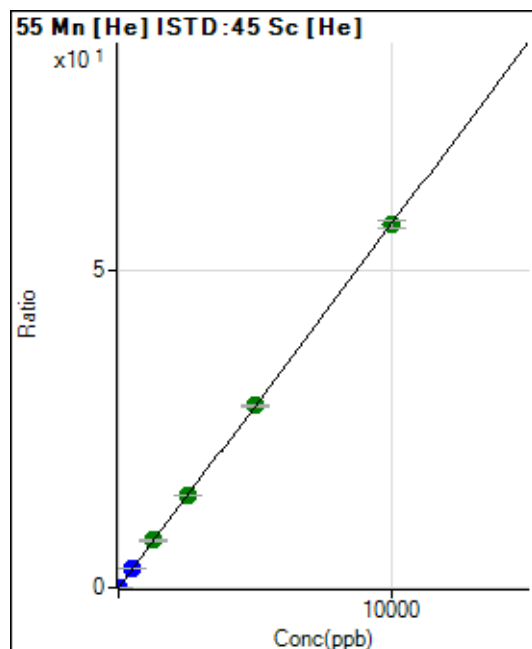
$$R = 0.9997$$

$$DL = 5.043$$

$$BEC = 14.84$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	116.67	0.0003	P	17.0
2	☐	1.000	1.023	2852.52	0.0061	P	10.3
3	☐	500.000	536.143	1403747.76	3.0724	P	3.6
4	☐	1250.000	1301.485	3263892.87	7.4579	A	3.1
5	☐	2500.000	2541.347	6411145.95	14.5624	A	1.8
6	☐	5000.000	5011.008	12649651.34	28.7138	A	1.2
7	☐	10000.000	9975.917	24834765.74	57.1632	A	2.2
8	☐			26673.67	0.0616	P	1.7

$$y = 0.0057 * x + 2.5409E-004$$

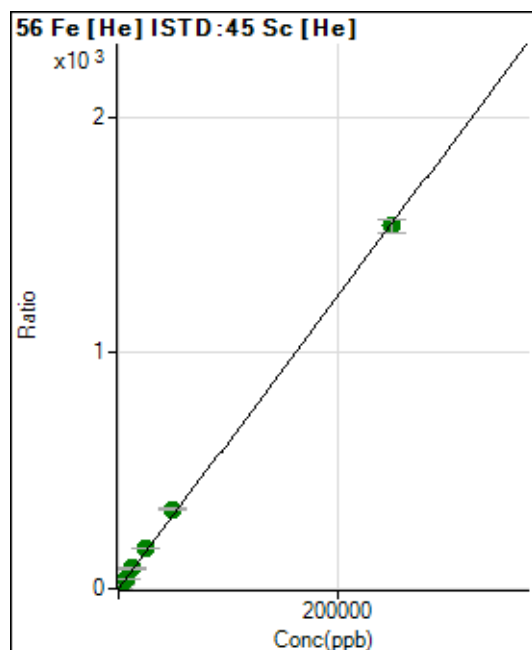
$$R = 1.0000$$

$$DL = 0.02265$$

$$BEC = 0.04434$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	9914.53	0.0216	P	6.8
2	☐	50.000	54.055	166132.80	0.3560	P	4.7
3	☐	2500.000	2840.825	8037685.43	17.5932	A	3.9
4	☐	6250.000	7046.077	19086886.08	43.6044	A	1.9
5	☐	12500.000	13902.941	37862036.96	86.0168	A	2.3
6	☐	25000.000	27575.206	75133995.20	170.5852	A	2.4
7	☐	50000.000	54629.020	146774290.3	337.9237	A	3.3
8	☐	250000.00	248723.21	666079222.2	1538.473	A	3.4

$$y = 0.0062 * x + 0.0216$$

$$R = 0.9998$$

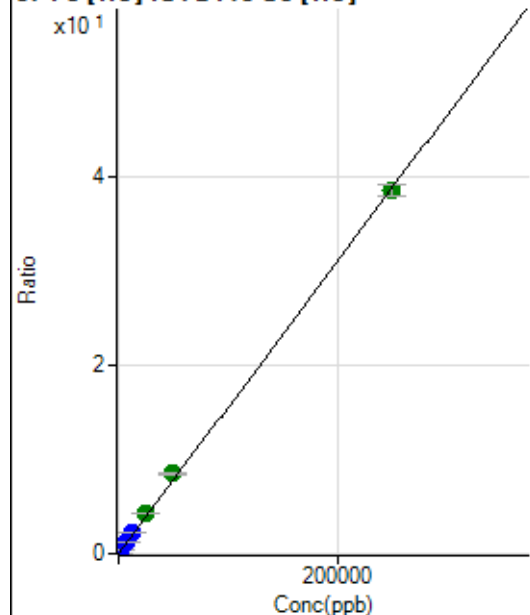
$$DL = 0.7138$$

$$BEC = 3.496$$

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	238.90	0.0005	P	22.1
2	☐	50.000	54.189	4169.16	0.0089	P	0.9
3	☐	2500.000	2973.054	210888.71	0.4616	P	4.2
4	☐	6250.000	7525.044	511034.02	1.1676	P	2.4
5	☐	12500.000	14534.673	992374.57	2.2547	P	2.6
6	☐	25000.000	27551.230	1882158.46	4.2734	A	2.5
7	☐	50000.000	54889.930	3697342.45	8.5132	A	3.7
8	☐	250000.00	248628.55	16694786.95	38.5595	A	3.3

$$y = 1.5509\text{E-}004 * x + 5.1828\text{E-}004$$

$$R = 0.9998$$

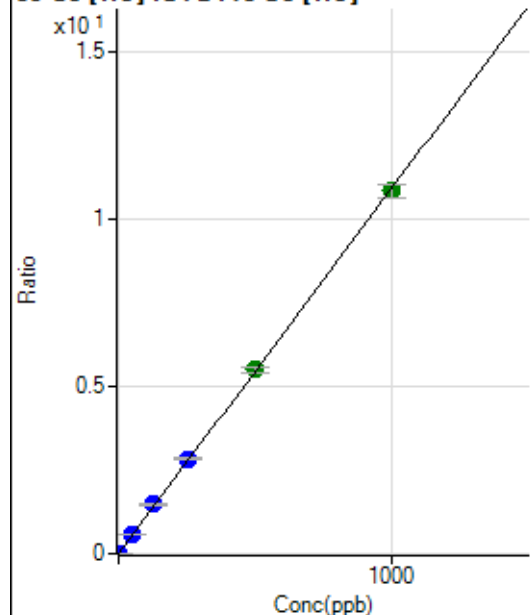
$$DL = 2.218$$

$$BEC = 3.342$$

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	45.56	0.0001	P	41.3
2	☐	1.000	0.969	4970.87	0.0107	P	4.7
3	☐	50.000	53.720	267308.83	0.5851	P	4.2
4	☐	125.000	134.397	640704.92	1.4638	P	2.2
5	☐	250.000	259.747	1245111.75	2.8289	P	2.7
6	☐	500.000	504.805	2421259.03	5.4978	A	3.0
7	☐	1000.000	993.800	4700672.81	10.8232	A	3.6
8	☐			5190.94	0.0120	P	2.8

$$y = 0.0109 * x + 9.9469\text{E-}005$$

$$R = 0.9999$$

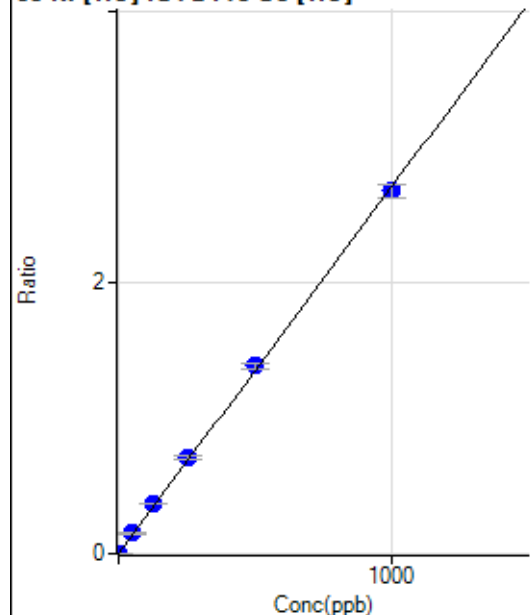
$$DL = 0.01132$$

$$BEC = 0.009133$$

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	80.00	0.0002	P	26.0
2	☐	1.000	0.970	1311.18	0.0028	P	5.3
3	☐	50.000	55.048	68202.03	0.1493	P	3.1
4	☐	125.000	136.970	162436.82	0.3711	P	2.5
5	☐	250.000	261.510	311776.84	0.7084	P	2.9
6	☐	500.000	511.613	610304.99	1.3857	P	2.7
7	☐	1000.000	989.568	1164052.09	2.6801	P	3.4
8	☐			3654.93	0.0084	P	6.5

$$y = 0.0027 * x + 1.7521E-004$$

$$R = 0.9998$$

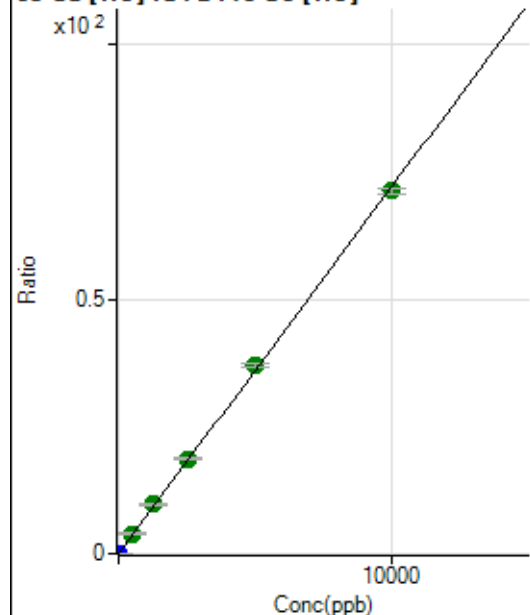
$$DL = 0.05038$$

$$BEC = 0.0647$$

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	757.81	0.0017	P	10.0
2	☐	2.000	2.048	7649.80	0.0164	P	4.4
3	☐	500.000	544.720	1791732.61	3.9218	A	4.1
4	☐	1250.000	1353.826	4264930.49	9.7447	A	2.8
5	☐	2500.000	2587.402	8196969.60	18.6223	A	2.4
6	☐	5000.000	5136.183	16282332.68	36.9650	A	2.0
7	☐	10000.000	9894.844	30940343.70	71.2114	A	1.7
8	☐			8886.04	0.0205	P	1.2

$$y = 0.0072 * x + 0.0017$$

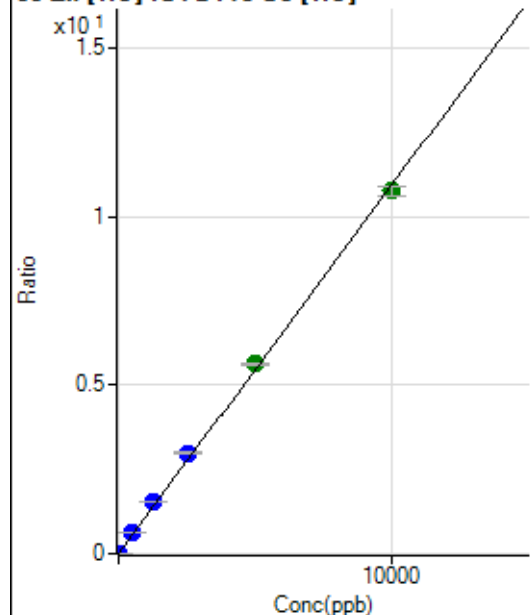
$$R = 0.9998$$

$$DL = 0.06902$$

$$BEC = 0.2295$$

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	634.46	0.0014	P	7.6
2	☐	2.000	2.496	1915.70	0.0041	P	7.8
3	☐	500.000	560.438	280199.23	0.6134	P	4.6
4	☐	1250.000	1413.602	676237.30	1.5451	P	2.8
5	☐	2500.000	2719.724	1307936.86	2.9715	P	2.3
6	☐	5000.000	5144.098	2475374.56	5.6190	A	1.5
7	☐	10000.000	9849.548	4673472.26	10.7576	A	2.3
8	☐			7777.66	0.0180	P	2.4

$$y = 0.0011 * x + 0.0014$$

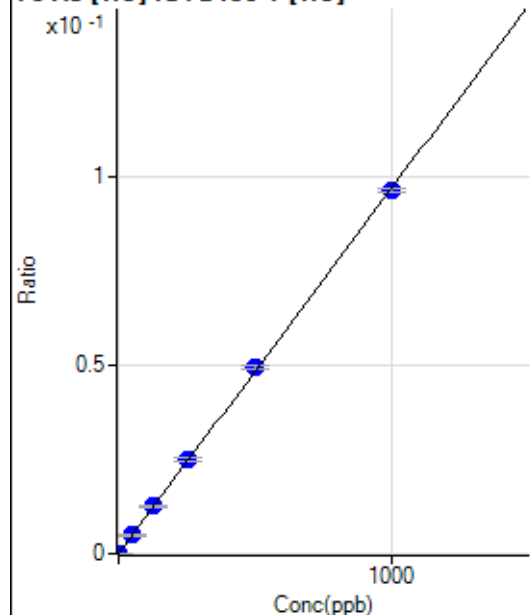
$$R = 0.9995$$

$$DL = 0.2871$$

$$BEC = 1.266$$

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	3.08	0.0000	P	34.6
2	☐	1.000	1.040	341.98	0.0001	P	4.5
3	☐	50.000	51.301	16158.18	0.0050	P	6.0
4	☐	125.000	130.372	39619.17	0.0126	P	2.6
5	☐	250.000	256.475	78921.27	0.0248	P	3.7
6	☐	500.000	508.832	157452.42	0.0493	P	1.8
7	☐	1000.000	993.228	306297.20	0.0962	P	1.1
8	☐			90.74	0.0000	P	12.6

$$y = 9.6857E-005 * x + 9.5405E-007$$

$$R = 0.9999$$

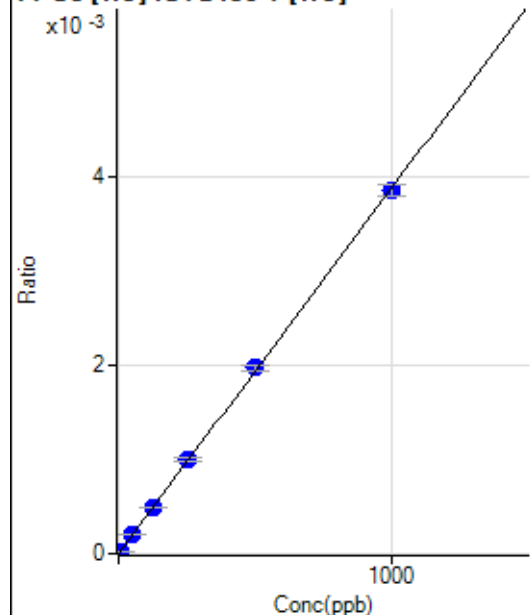
$$DL = 0.01022$$

$$BEC = 0.00985$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.807	75.56	0.0000	P	10.3
3	☐	50.000	53.108	668.91	0.0002	P	7.4
4	☐	125.000	127.726	1553.43	0.0005	P	0.9
5	☐	250.000	257.957	3177.04	0.0010	P	5.4
6	☐	500.000	508.965	6300.29	0.0020	P	3.6
7	☐	1000.000	993.028	12250.69	0.0038	P	3.3
8	☐			7.78	0.0000	P	51.0

$$y = 3.8754\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

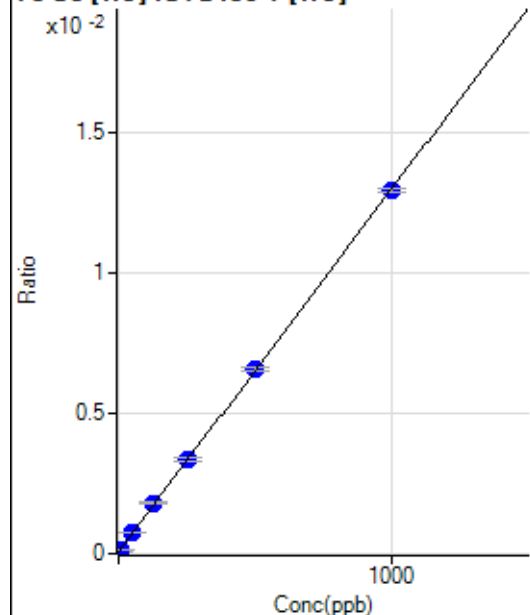
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	228.40	0.0001	P	4.8
2	☐	5.000	4.212	421.61	0.0001	P	3.6
3	☐	50.000	52.590	2441.57	0.0008	P	5.3
4	☐	125.000	134.288	5665.31	0.0018	P	5.3
5	☐	250.000	255.677	10724.89	0.0034	P	3.6
6	☐	500.000	503.944	21038.37	0.0066	P	1.7
7	☐	1000.000	995.322	41190.81	0.0129	P	1.2
8	☐			190.13	0.0001	P	4.6

$$y = 1.2927\text{E-}005 * x + 7.0729\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.7812$$

$$BEC = 5.471$$

Weight: <None>

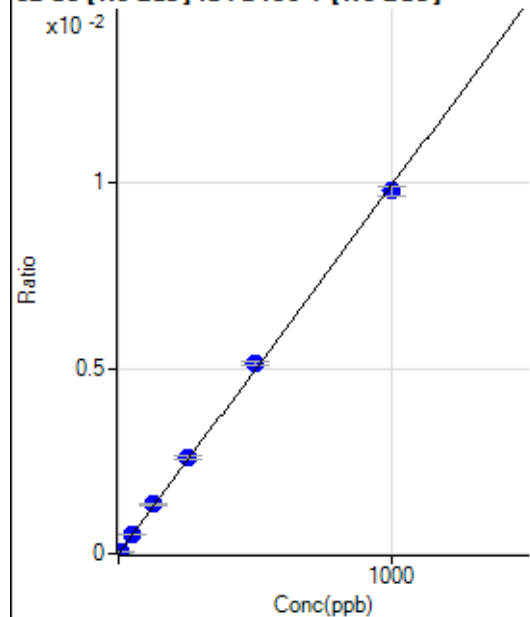
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			57613.61		P	1.2
2	☐			58941.05		P	1.3
3	☐			57861.77		P	2.0
4	☐			56874.31		P	0.5
5	☐			55909.45		P	1.6
6	☐			56180.09		P	1.4
7	☐			56879.79		P	4.2
8	☐			57409.64		P	3.1

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			110.11		P	27.3
2	☐			86.75		P	37.1
3	☐			90.09		P	44.4
4	☐			76.74		P	32.8
5	☐			70.07		P	28.6
6	☐			106.77		P	30.1
7	☐			93.43		P	44.6
8	☐			83.42		P	42.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	26.87	0.0000	P	96.2
2	☐	5.000	5.034	786.99	0.0001	P	0.8
3	☐	50.000	52.983	7804.68	0.0005	P	2.2
4	☐	125.000	134.609	19178.86	0.0013	P	3.7
5	☐	250.000	262.582	37909.04	0.0026	P	4.6
6	☐	500.000	519.159	73719.17	0.0052	P	2.3
7	☐	1000.000	985.925	143939.54	0.0098	P	2.9
8	☐			296.55	0.0000	P	8.6

$$y = 9.9301E-006 * x + 1.8853E-006$$

$$R = 0.9996$$

$$DL = 0.5479$$

$$BEC = 0.1899$$

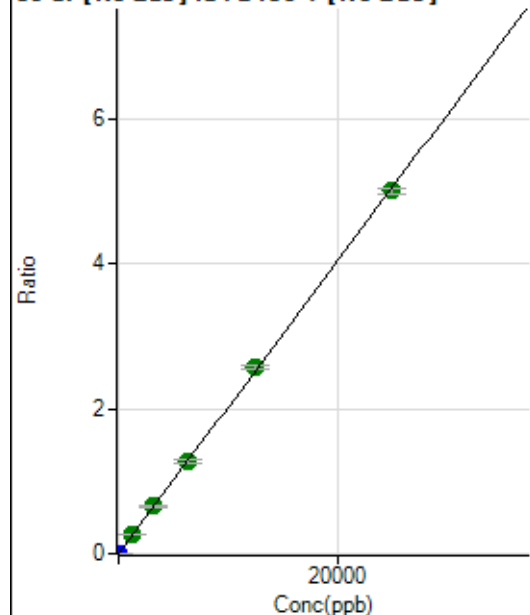
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			223.34		P	36.6
2	☐			178.89		P	8.8
3	☐			196.67		P	14.5
4	☐			192.22		P	3.6
5	☐			191.12		P	20.4
6	☐			224.45		P	5.2
7	☐			244.45		P	11.1
8	☐			291.12		P	11.8

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	408.35	0.0000	P	1.5
2	☐	1.000	0.907	3167.09	0.0002	P	6.2
3	☐	1250.000	1300.764	3873485.63	0.2620	A	1.1
4	☐	3125.000	3229.010	9318824.08	0.6503	A	3.2
5	☐	6250.000	6304.299	18445560.48	1.2697	A	4.6
6	☐	12500.000	12755.055	36723406.72	2.5688	A	2.2
7	☐	25000.000	24843.359	73567907.89	5.0033	A	1.5
8	☐			27548.64	0.0021	P	10.7

$$y = 2.0139E-004 * x + 2.6506E-005$$

R = 0.9999

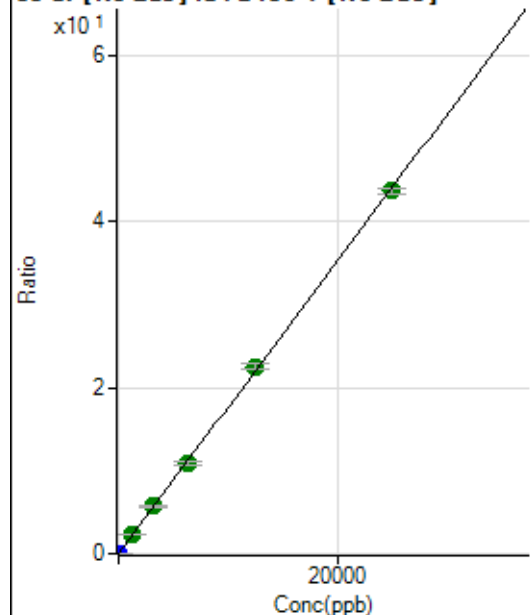
DL = 0.006027

BEC = 0.1316

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	194.45	0.0000	P	47.3
2	☐	1.000	0.948	25464.22	0.0017	P	4.5
3	☐	1250.000	1285.757	33438795.19	2.2624	A	2.5
4	☐	3125.000	3234.144	81538973.35	5.6907	A	3.3
5	☐	6250.000	6244.432	159649273.0	10.9874	A	4.0
6	☐	12500.000	12810.899	322217004.4	22.5415	A	2.7
7	☐	25000.000	24830.512	642384086.5	43.6906	A	1.8
8	☐			236349.69	0.0176	P	9.9

$$y = 0.0018 * x + 1.2687E-005$$

R = 0.9999

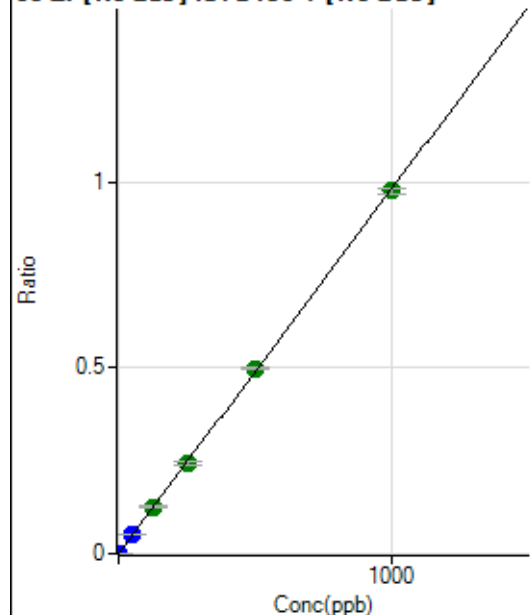
DL = 0.01023

BEC = 0.007211

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	630.58	0.0000	P	9.5
2	☐	1.000	0.933	14501.91	0.0010	P	2.5
3	☐	50.000	52.907	767892.38	0.0519	P	2.1
4	☐	125.000	126.775	1782481.75	0.1244	A	4.0
5	☐	250.000	249.474	3556027.81	0.2448	A	4.9
6	☐	500.000	508.605	7134863.09	0.4990	A	1.8
7	☐	1000.000	995.462	14359752.75	0.9767	A	1.7
8	☐			5184.37	0.0004	P	7.6

$$y = 9.8108\text{E-}004 * x + 4.0788\text{E-}005$$

$$R = 0.9999$$

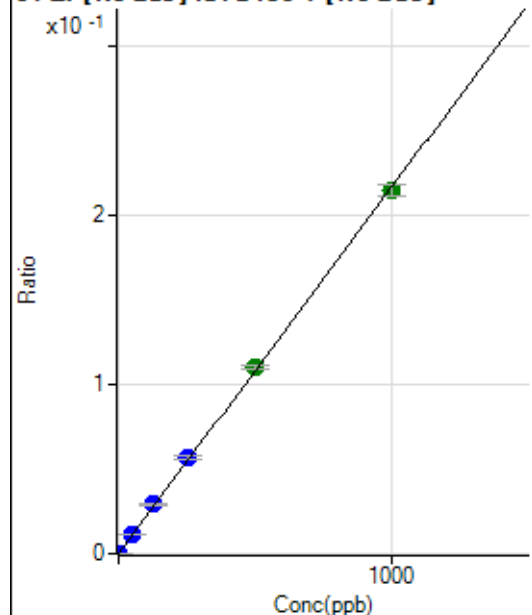
$$DL = 0.0118$$

$$BEC = 0.04157$$

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	113.89	0.0000	P	17.5
2	☐	1.000	0.899	3058.73	0.0002	P	7.3
3	☐	50.000	52.968	169666.08	0.0115	P	2.3
4	☐	125.000	134.970	419026.24	0.0292	P	2.4
5	☐	250.000	261.013	821309.80	0.0565	P	4.6
6	☐	500.000	510.726	1581168.08	0.1106	A	2.4
7	☐	1000.000	990.489	3153133.51	0.2145	A	3.0
8	☐			1047.29	0.0001	P	1.9

$$y = 2.1656\text{E-}004 * x + 7.4175\text{E-}006$$

$$R = 0.9998$$

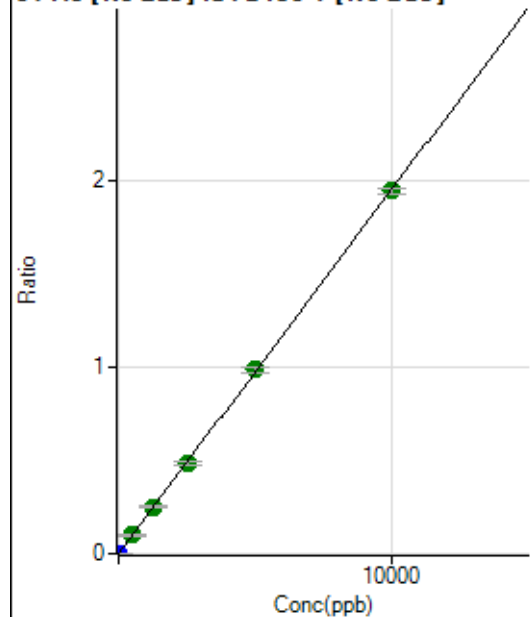
$$DL = 0.01798$$

$$BEC = 0.03425$$

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	202.79	0.0000	P	33.0
2	☐	5.000	5.595	16740.55	0.0011	P	5.2
3	☐	500.000	504.978	1457445.91	0.0986	A	1.7
4	☐	1250.000	1280.868	3583682.02	0.2500	A	2.3
5	☐	2500.000	2480.307	7031307.28	0.4842	A	6.0
6	☐	5000.000	5065.994	14135441.46	0.9889	A	3.3
7	☐	10000.000	9967.818	28610529.11	1.9458	A	1.7
8	☐			11930.13	0.0009	P	11.7

$$y = 1.9520\text{E-}004 * x + 1.2877\text{E-}005$$

$$R = 1.0000$$

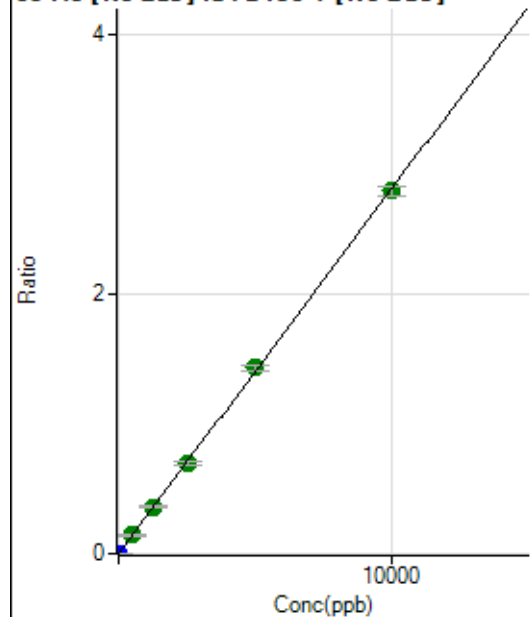
$$DL = 0.06528$$

$$BEC = 0.06597$$

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	13.89	0.0000	P	31.5
2	☐	5.000	4.764	20275.59	0.0013	P	3.7
3	☐	500.000	506.367	2100588.37	0.1421	A	2.9
4	☐	1250.000	1276.904	5136499.07	0.3584	A	2.6
5	☐	2500.000	2487.894	10145914.81	0.6983	A	3.9
6	☐	5000.000	5101.150	20465766.60	1.4317	A	3.2
7	☐	10000.000	9948.771	41046365.50	2.7923	A	2.7
8	☐			15316.81	0.0011	P	12.8

$$y = 2.8067\text{E-}004 * x + 8.9437\text{E-}007$$

$$R = 0.9999$$

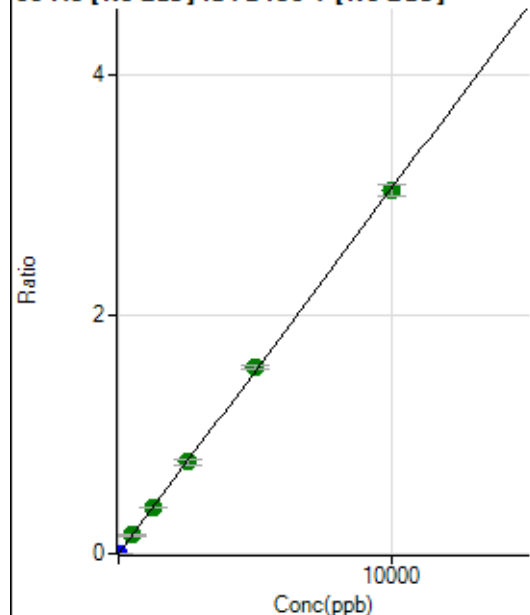
$$DL = 0.003014$$

$$BEC = 0.003187$$

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	125.00	0.0000	P	11.4
2	☐	5.000	4.977	23141.00	0.0015	P	6.6
3	☐	500.000	507.835	2292628.83	0.1551	A	3.3
4	☐	1250.000	1267.508	5547342.35	0.3872	A	3.6
5	☐	2500.000	2501.912	11101516.48	0.7642	A	4.9
6	☐	5000.000	5120.346	22360010.74	1.5640	A	2.4
7	☐	10000.000	9936.769	44616517.32	3.0351	A	3.1
8	☐			42615.89	0.0032	P	6.7

$$y = 3.0545\text{E-}004 * x + 8.1806\text{E-}006$$

$$R = 0.9999$$

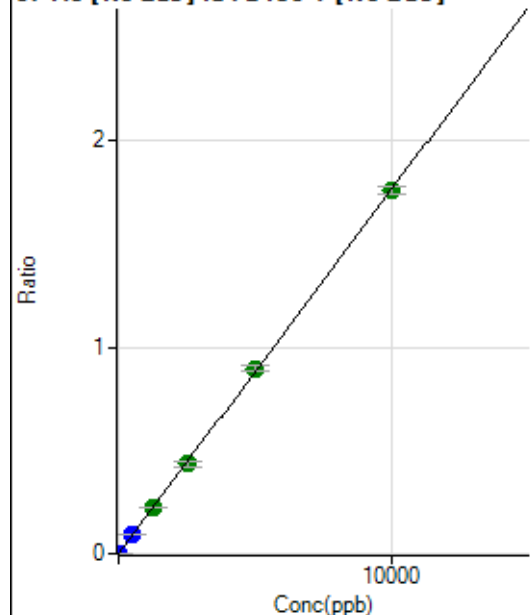
$$DL = 0.009139$$

$$BEC = 0.02678$$

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	88.1
2	☐	5.000	4.776	12750.36	0.0008	P	7.1
3	☐	500.000	524.058	1365112.26	0.0924	P	2.4
4	☐	1250.000	1271.260	3210490.65	0.2240	A	3.1
5	☐	2500.000	2478.778	6343731.39	0.4368	A	6.5
6	☐	5000.000	5083.723	12808655.32	0.8959	A	3.1
7	☐	10000.000	9959.584	25806200.75	1.7552	A	2.1
8	☐			10073.16	0.0008	P	12.8

$$y = 1.7624\text{E-}004 * x + 3.5444\text{E-}007$$

$$R = 0.9999$$

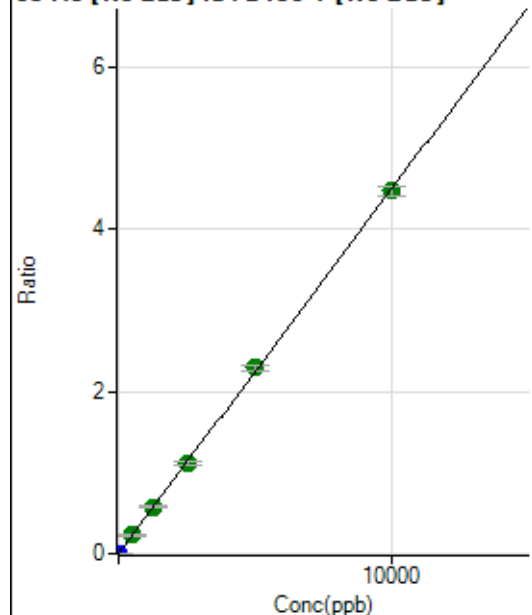
$$DL = 0.005316$$

$$BEC = 0.002011$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	33.34	0.0000	P	42.7
2	☐	5.000	4.805	32717.80	0.0022	P	7.5
3	☐	500.000	504.030	3347662.25	0.2265	A	2.4
4	☐	1250.000	1280.643	8245308.26	0.5755	A	3.6
5	☐	2500.000	2490.110	16252615.81	1.1189	A	5.3
6	☐	5000.000	5095.660	32730068.44	2.2897	A	3.4
7	☐	10000.000	9950.611	65728795.91	4.4713	A	2.8
8	☐			24001.03	0.0018	P	15.1

$$y = 4.4935E-004 * x + 2.1547E-006$$

$$R = 0.9999$$

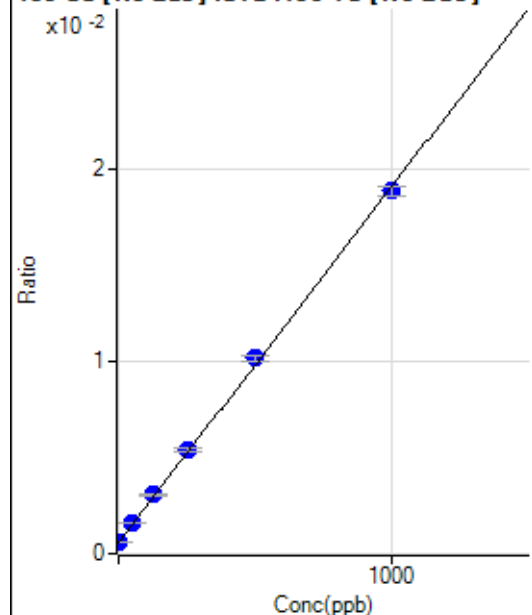
$$DL = 0.006145$$

$$BEC = 0.004795$$

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	8594.48	0.0006	P	2.6
2	☐	1.000	1.591	8733.45	0.0006	P	2.2
3	☐	50.000	53.927	21488.70	0.0016	P	4.2
4	☐	125.000	132.946	40824.84	0.0031	P	1.6
5	☐	250.000	257.880	72913.88	0.0054	P	3.9
6	☐	500.000	517.181	134318.35	0.0102	P	2.3
7	☐	1000.000	988.249	254635.32	0.0189	P	2.9
8	☐			7307.56	0.0006	P	3.4

$$y = 1.8510E-005 * x + 6.1445E-004$$

$$R = 0.9997$$

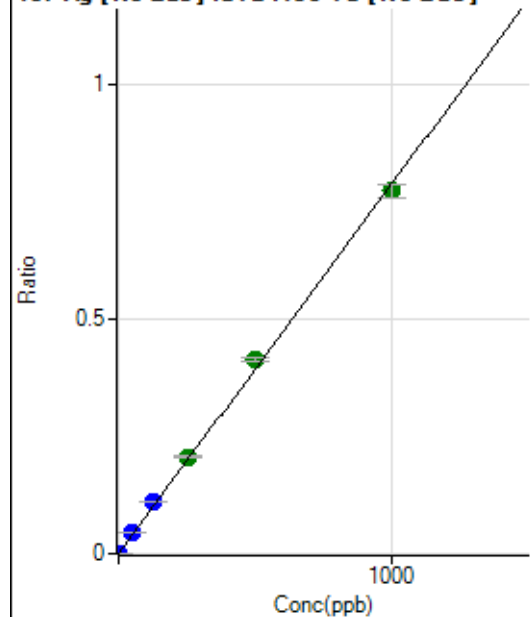
$$DL = 2.635$$

$$BEC = 33.2$$

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	105.56	0.0000	P	33.5
2	☐	1.000	1.043	11243.54	0.0008	P	5.5
3	☐	50.000	57.861	608276.39	0.0456	P	1.5
4	☐	125.000	140.509	1470503.90	0.1108	P	3.1
5	☐	250.000	262.255	2799938.45	0.2068	A	3.0
6	☐	500.000	524.958	5458284.97	0.4140	A	2.4
7	☐	1000.000	982.126	10430146.59	0.7746	A	3.8
8	☐			5453.95	0.0004	P	4.6

$$y = 7.8870\text{E-}004 * x + 7.3618\text{E-}006$$

$$R = 0.9994$$

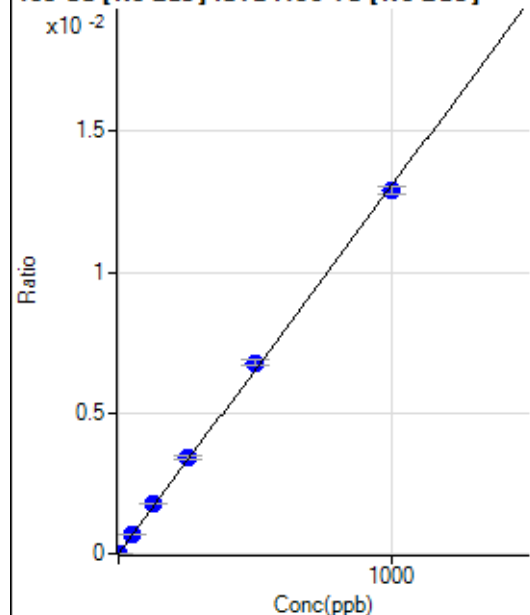
$$DL = 0.009383$$

$$BEC = 0.009334$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.83	0.0000	P	57.8
2	☐	1.000	0.855	172.23	0.0000	P	12.8
3	☐	50.000	52.990	9236.37	0.0007	P	5.0
4	☐	125.000	134.940	23405.08	0.0018	P	2.1
5	☐	250.000	258.999	45783.11	0.0034	P	4.0
6	☐	500.000	519.580	89452.58	0.0068	P	3.4
7	☐	1000.000	986.568	173532.92	0.0129	P	2.1
8	☐			93.06	0.0000	P	27.0

$$y = 1.3057\text{E-}005 * x + 1.5333\text{E-}006$$

$$R = 0.9996$$

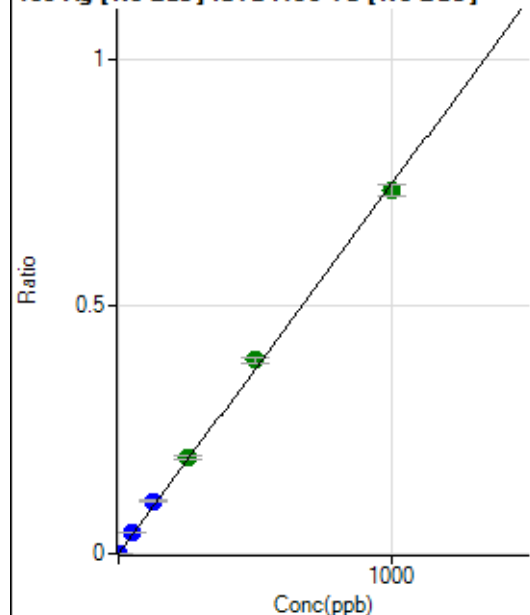
$$DL = 0.2035$$

$$BEC = 0.1174$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22.22	0.0000	P	97.4
2	☐	1.000	1.032	10456.77	0.0008	P	7.2
3	☐	50.000	58.379	581192.76	0.0436	P	1.5
4	☐	125.000	142.794	1415658.13	0.1067	P	2.4
5	☐	250.000	261.661	2645297.22	0.1955	A	4.0
6	☐	500.000	524.113	5162290.57	0.3915	A	2.5
7	☐	1000.000	982.385	9883473.75	0.7339	A	3.3
8	☐			5017.67	0.0004	P	8.0

$$y = 7.4705\text{E-}004 * x + 1.4651\text{E-}006$$

$$R = 0.9994$$

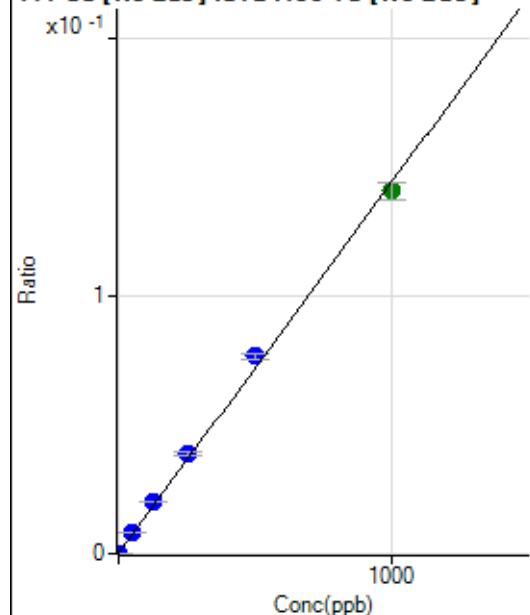
$$DL = 0.005728$$

$$BEC = 0.001961$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1707.09	0.0001	P	2.4
2	☐	1.000	1.067	3733.25	0.0003	P	1.8
3	☐	50.000	56.870	110545.38	0.0083	P	2.3
4	☐	125.000	139.956	268602.85	0.0202	P	2.0
5	☐	250.000	268.111	523154.23	0.0387	P	4.1
6	☐	500.000	532.091	1009824.48	0.0766	P	3.2
7	☐	1000.000	977.214	1893092.62	0.1406	A	4.5
8	☐			2272.80	0.0002	P	5.7

$$y = 1.4374\text{E-}004 * x + 1.2203\text{E-}004$$

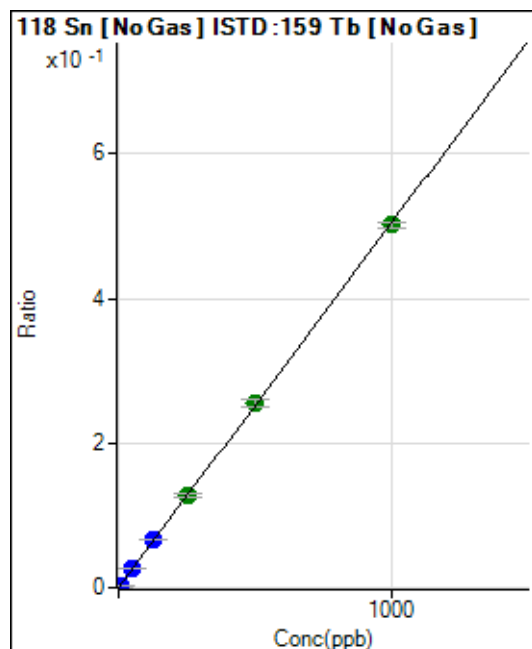
$$R = 0.9990$$

$$DL = 0.06169$$

$$BEC = 0.849$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2380.81	0.0002	P	11.6
2	☐	5.000	5.045	36783.59	0.0027	P	2.4
3	☐	50.000	53.876	364085.94	0.0273	P	2.2
4	☐	125.000	132.336	887361.02	0.0669	P	2.5
5	☐	250.000	254.458	1737701.43	0.1284	A	4.5
6	☐	500.000	506.150	3365275.12	0.2553	A	3.4
7	☐	1000.000	994.700	6756344.51	0.5015	A	1.3
8	☐			7682.83	0.0006	P	7.7

$$y = 5.0399\text{E-}004 * x + 1.7148\text{E-}004$$

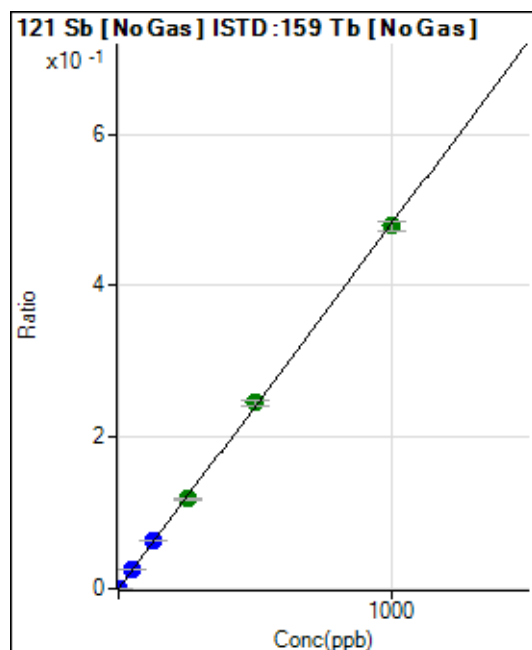
$$R = 0.9999$$

$$DL = 0.118$$

$$BEC = 0.3402$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.55	0.0000	P	89.0
2	☐	2.000	1.891	12366.78	0.0009	P	4.1
3	☐	50.000	53.795	345170.09	0.0259	P	2.1
4	☐	125.000	132.525	846765.86	0.0638	P	2.7
5	☐	250.000	246.859	1608910.76	0.1189	A	2.8
6	☐	500.000	510.360	3239503.59	0.2457	A	3.1
7	☐	1000.000	994.475	6449202.97	0.4788	A	2.5
8	☐			4217.41	0.0003	P	7.4

$$y = 4.8148\text{E-}004 * x + 2.3321\text{E-}006$$

$$R = 0.9999$$

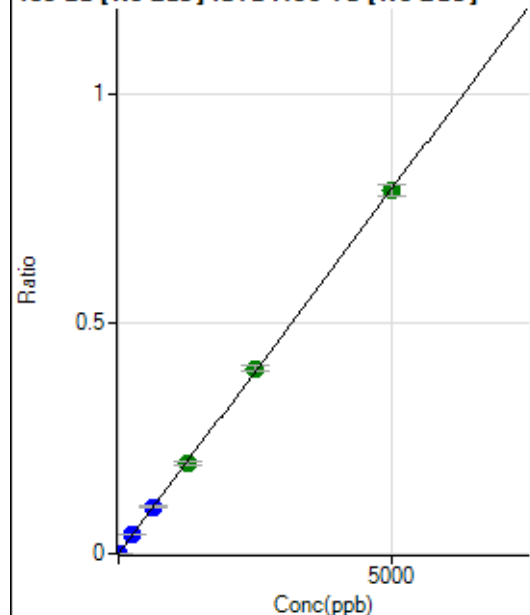
$$DL = 0.01293$$

$$BEC = 0.004844$$

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	30.56	0.0000	P	44.4
2	☐	10.000	9.078	19527.72	0.0014	P	3.8
3	☐	250.000	256.969	542587.72	0.0407	P	2.6
4	☐	625.000	641.021	1348028.51	0.1016	P	2.5
5	☐	1250.000	1235.148	2649025.58	0.1957	A	3.6
6	☐	2500.000	2544.028	5314334.06	0.4031	A	3.3
7	☐	5000.000	4979.350	10626430.10	0.7891	A	3.3
8	☐			6621.15	0.0005	P	8.2

$$y = 1.5847E-004 * x + 2.1122E-006$$

$$R = 0.9999$$

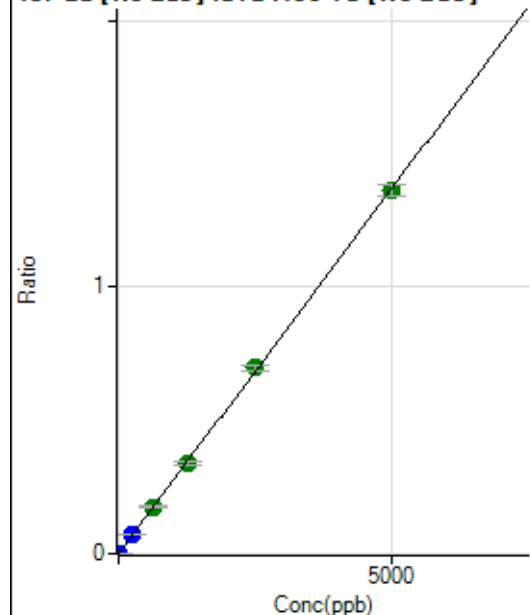
$$DL = 0.01774$$

$$BEC = 0.01333$$

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	36.11	0.0000	P	38.7
2	☐	10.000	9.187	34077.73	0.0025	P	6.1
3	☐	250.000	259.051	944340.35	0.0709	P	2.8
4	☐	625.000	637.116	2312879.11	0.1743	A	2.9
5	☐	1250.000	1240.853	4593321.46	0.3395	A	4.9
6	☐	2500.000	2552.471	9205260.53	0.6983	A	3.3
7	☐	5000.000	4974.086	18327267.77	1.3608	A	3.3
8	☐			11671.77	0.0009	P	9.1

$$y = 2.7359E-004 * x + 2.6024E-006$$

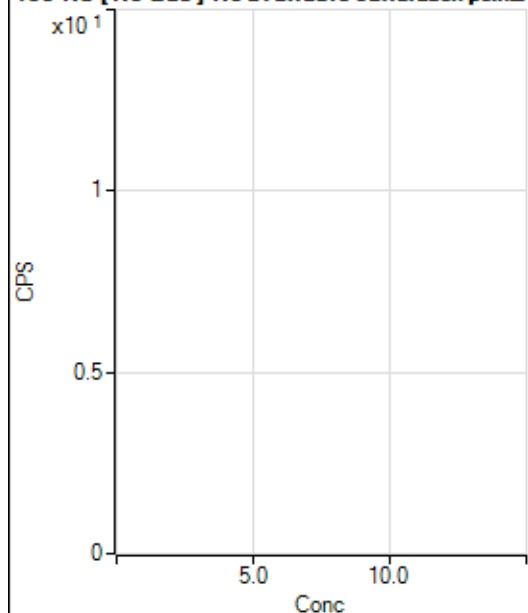
$$R = 0.9999$$

$$DL = 0.01103$$

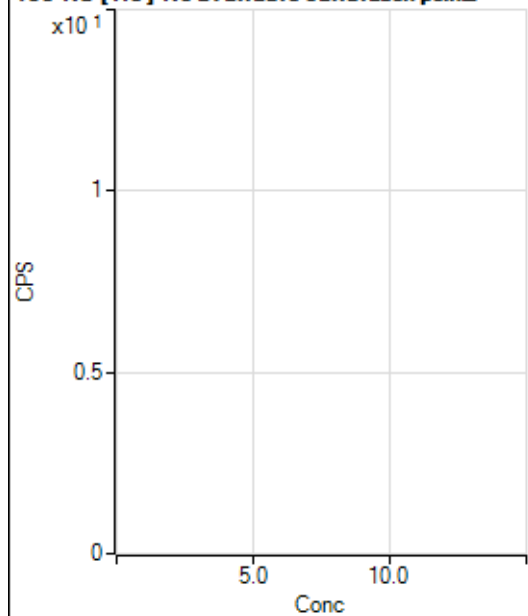
$$BEC = 0.009512$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	43.3
2	☐			11.11		P	34.6
3	☐			100.00		P	17.6
4	☐			288.90		P	20.8
5	☐			553.36		P	8.4
6	☐			1057.84		P	4.2
7	☐			2382.47		P	2.8
8	☐			75.56		P	53.2

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			3.33		P	100.
3	☐			36.67		P	18.2
4	☐			47.78		P	38.4
5	☐			65.55		P	29.8
6	☐			187.78		P	8.9
7	☐			372.23		P	19.9
8	☐			30.00		P	11.1

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.78		P	173.
2	☐			8.33		P	100.
3	☐			33.34		P	43.3
4	☐			105.56		P	31.9
5	☐			191.67		P	35.6
6	☐			411.13		P	5.9
7	☐			688.92		P	6.7
8	☐			2077.99		P	4.4

156 Dy [He] No available calibration points

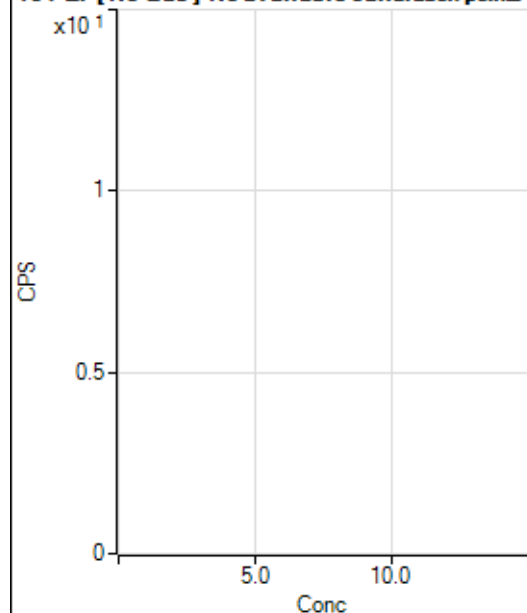
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐			2.22		P	86.6
3	☐			42.22		P	31.9
4	☐			77.78		P	20.3
5	☐			160.00		P	11.0
6	☐			344.45		P	2.0
7	☐			680.03		P	3.8
8	☐			1324.52		P	2.3

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

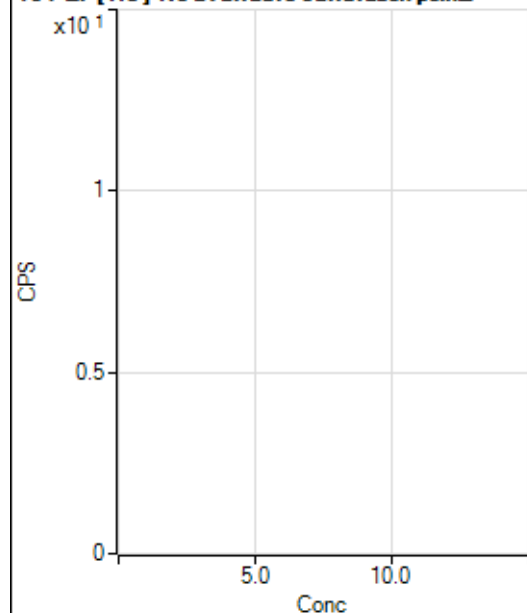
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			77.78		P	16.4
2	☐			80.56		P	33.3
3	☐			102.78		P	38.3
4	☐			111.11		P	11.5
5	☐			186.12		P	20.7
6	☐			291.68		P	13.1
7	☐			641.70		P	6.9
8	☐			2289.13		P	7.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			508.90		P	12.5
2	☐			496.68		P	5.5
3	☐			505.57		P	4.3
4	☐			493.35		P	3.6
5	☐			560.02		P	3.9
6	☐			616.69		P	6.1
7	☐			794.48		P	2.8
8	☐			1820.14		P	1.3

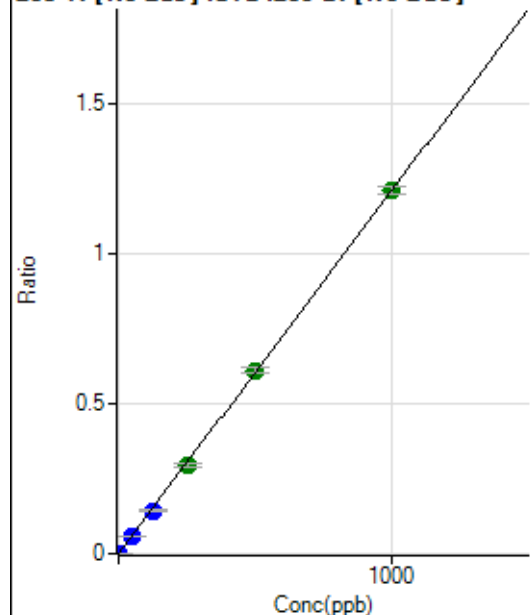
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63.89		P	15.1
2	☐			75.00		P	29.4
3	☐			63.89		P	19.9
4	☐			100.00		P	8.3
5	☐			105.56		P	4.6
6	☐			102.78		P	32.8
7	☐			113.89		P	4.2
8	☐			116.67		P	42.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.11		P	41.6
2	☐			28.89		P	17.6
3	☐			36.67		P	32.8
4	☐			28.89		P	17.6
5	☐			50.00		P	13.3
6	☐			57.78		P	26.0
7	☐			63.33		P	29.3
8	☐			86.67		P	23.1

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94.45	0.0000	P	20.8
2	☐	1.000	0.833	9431.31	0.0010	P	6.5
3	☐	50.000	46.947	517986.91	0.0567	P	2.4
4	☐	125.000	119.084	1280131.63	0.1439	P	2.0
5	☐	250.000	245.085	2637508.00	0.2961	A	3.6
6	☐	500.000	504.021	5183838.14	0.6089	A	3.3
7	☐	1000.000	1000.110	10151745.80	1.2083	A	2.1
8	☐			2672.55	0.0004	P	12.9

$$y = 0.0012 * x + 9.9781E-006$$

$$R = 1.0000$$

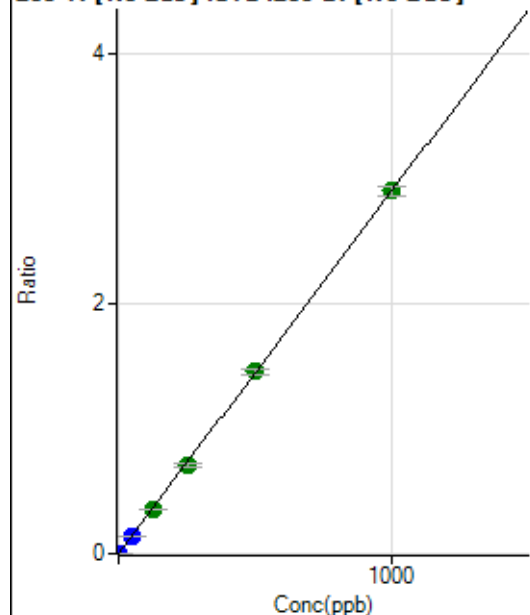
$$DL = 0.005159$$

$$BEC = 0.008259$$

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	180.56	0.0000	P	10.0
2	☐	1.000	0.832	22544.14	0.0024	P	2.0
3	☐	50.000	46.528	1230542.06	0.1348	P	3.1
4	☐	125.000	121.925	3140972.55	0.3531	A	3.8
5	☐	250.000	242.526	6256313.29	0.7024	A	4.1
6	☐	500.000	502.243	12385162.60	1.4546	A	2.7
7	☐	1000.000	1001.305	24364117.21	2.9001	A	2.6
8	☐			6510.09	0.0010	P	15.2

$$y = 0.0029 * x + 1.8705E-005$$

$$R = 1.0000$$

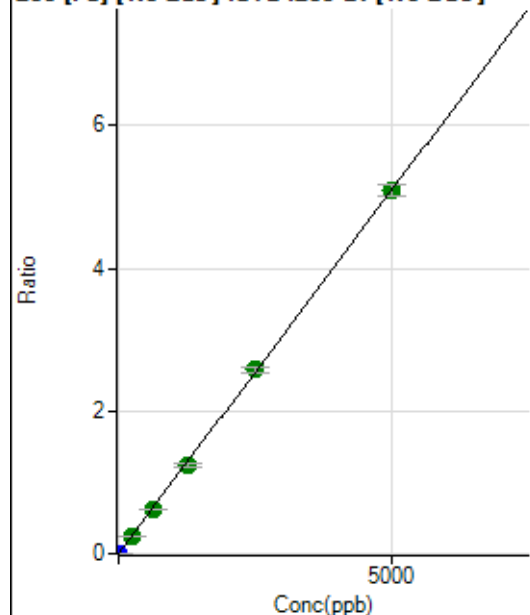
$$DL = 0.001937$$

$$BEC = 0.006458$$

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	337.05	0.0000	P	3.6
2	☐	1.000	0.816	8035.84	0.0009	P	6.2
3	☐	250.000	245.293	2281729.02	0.2498	A	1.6
4	☐	625.000	611.728	5542991.21	0.6230	A	2.2
5	☐	1250.000	1222.832	11092664.02	1.2454	A	4.1
6	☐	2500.000	2528.751	21927697.25	2.5754	A	2.2
7	☐	5000.000	4994.311	42726973.64	5.0863	A	3.3
8	☐			12005.50	0.0018	P	9.7

$$y = 0.0010 * x + 3.5253E-005$$

$$R = 1.0000$$

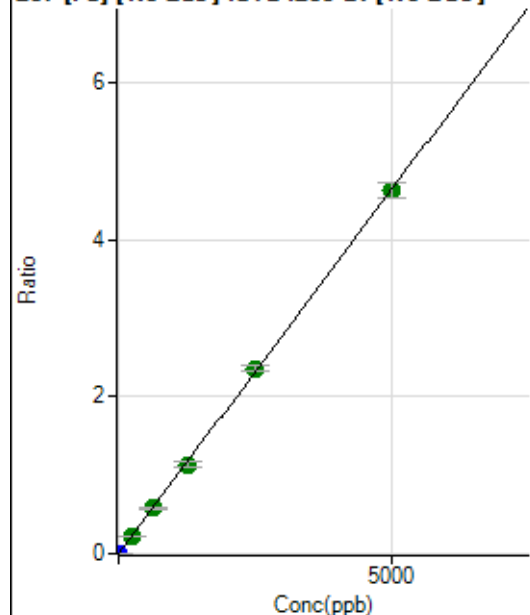
$$DL = 0.003774$$

$$BEC = 0.03462$$

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	294.45	0.0000	P	18.0
2	☐	1.000	0.804	7200.16	0.0008	P	5.8
3	☐	250.000	244.421	2067762.88	0.2265	A	2.8
4	☐	625.000	622.566	5131120.95	0.5768	A	2.8
5	☐	1250.000	1227.127	10125579.62	1.1369	A	4.6
6	☐	2500.000	2546.363	20086138.41	2.3591	A	2.6
7	☐	5000.000	4983.120	38767585.59	4.6167	A	4.1
8	☐			10585.79	0.0016	P	13.1

$$y = 9.2645E-004 * x + 3.1075E-005$$

$$R = 0.9999$$

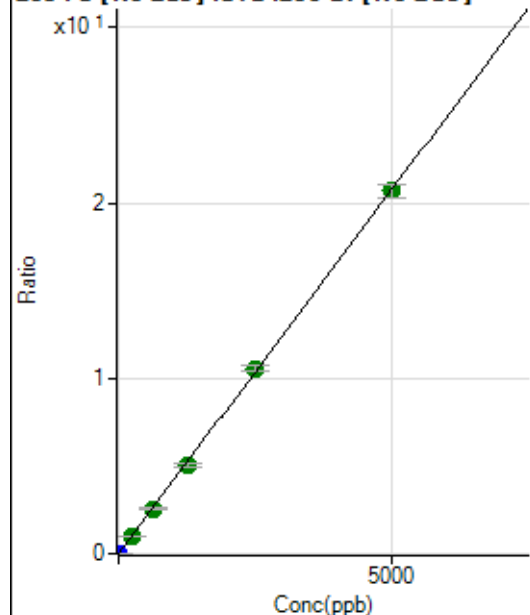
$$DL = 0.01809$$

$$BEC = 0.03354$$

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	1361.16	0.0001	P	14.5
2	☐	1.000	0.800	32128.17	0.0035	P	4.7
3	☐	250.000	245.025	9280597.15	1.0165	A	2.9
4	☐	625.000	617.698	22793488.35	2.5624	A	2.9
5	☐	1250.000	1220.905	45113375.43	5.0645	A	3.5
6	☐	2500.000	2541.662	89756068.67	10.5430	A	3.1
7	☐	5000.000	4987.604	173761773.3	20.6887	A	3.6
8	☐			48072.97	0.0072	P	10.7

$$y = 0.0041 * x + 1.4356E-004$$

$$R = 0.9999$$

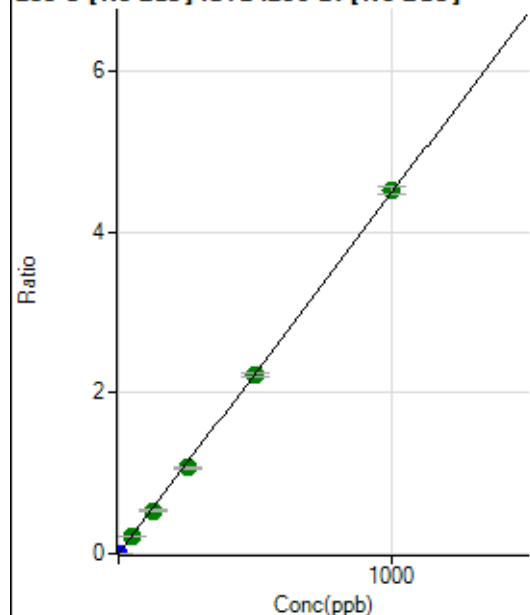
$$DL = 0.01505$$

$$BEC = 0.03461$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5.56	0.0000	P	173.
2	☐	1.000	0.778	32348.36	0.0035	P	4.6
3	☐	50.000	47.158	1929715.04	0.2113	A	2.4
4	☐	125.000	119.476	4762650.80	0.5354	A	2.6
5	☐	250.000	238.591	9524653.77	1.0691	A	2.9
6	☐	500.000	494.315	18859932.36	2.2151	A	2.5
7	☐	1000.000	1006.527	37895693.90	4.5103	A	2.0
8	☐			6251.72	0.0009	P	13.3

$$y = 0.0045 * x + 5.1256E-007$$

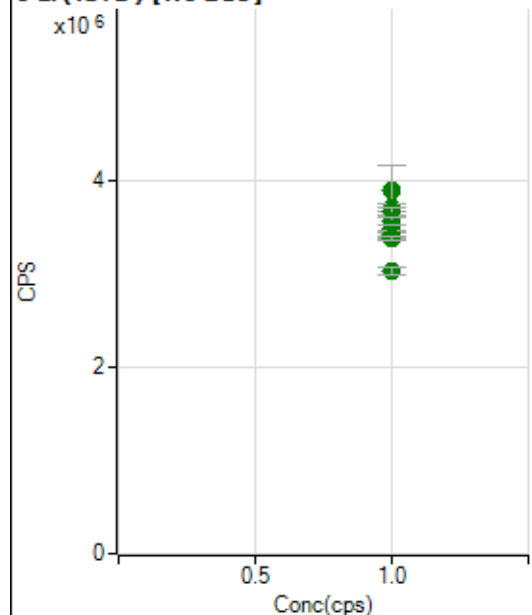
$$R = 0.9999$$

$$DL = 0.0005944$$

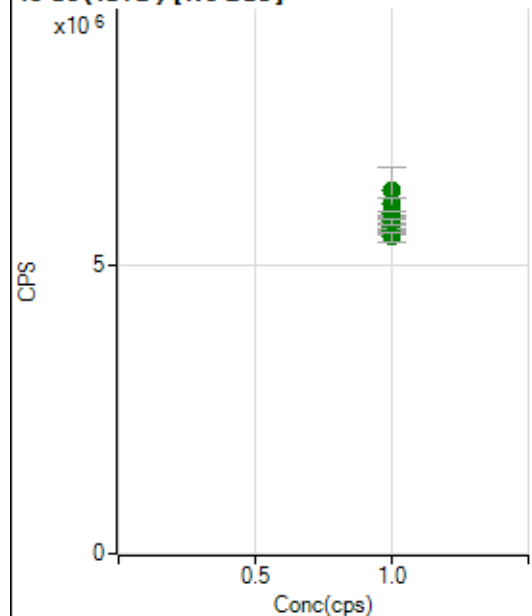
$$BEC = 0.0001144$$

Weight: <None>

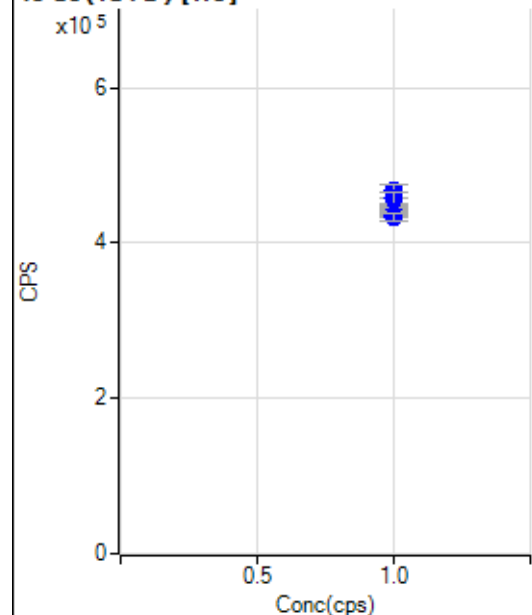
Min Conc: 0

6 Li (ISTD) [No Gas]

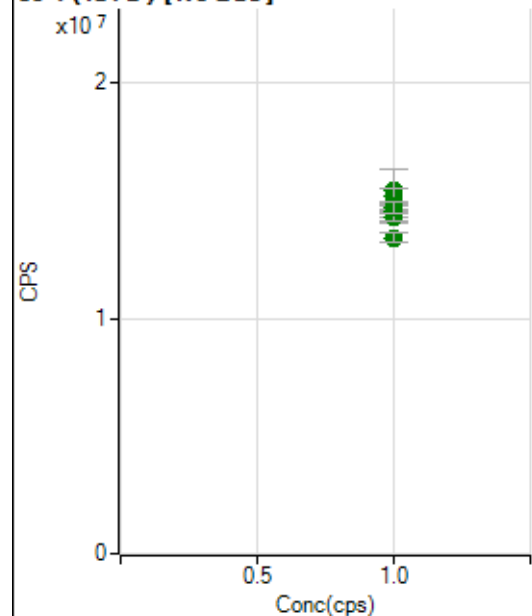
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3899313.83		A	14.2
2	☐	1.000		3726118.42		A	2.2
3	☐	1.000		3673552.00		A	2.3
4	☐	1.000		3576229.56		A	2.5
5	☐	1.000		3487971.20		A	2.3
6	☐	1.000		3426190.68		A	2.3
7	☐	1.000		3391345.23		A	1.0
8	☐	1.000		3033269.05		A	2.4

45 Sc (ISTD) [No Gas]

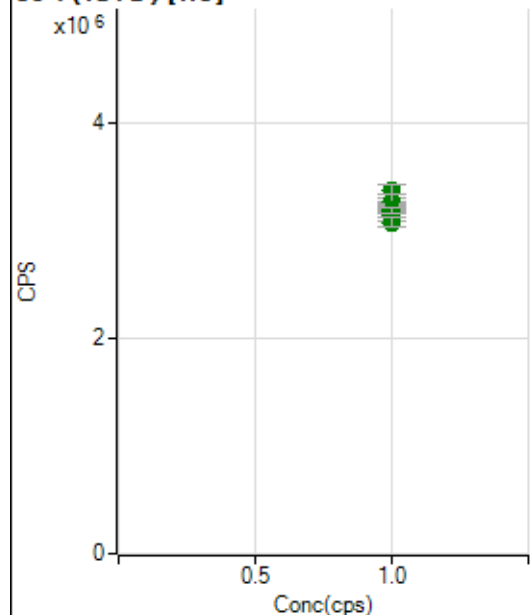
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6289441.08		A	13.1
2	☐	1.000		6065207.69		A	3.8
3	☐	1.000		5890570.05		A	1.9
4	☐	1.000		5716011.58		A	3.0
5	☐	1.000		5664687.62		A	2.0
6	☐	1.000		5591702.77		A	1.9
7	☐	1.000		5750556.03		A	2.2
8	☐	1.000		5488578.36		A	3.4

45 Sc (ISTD) [He]

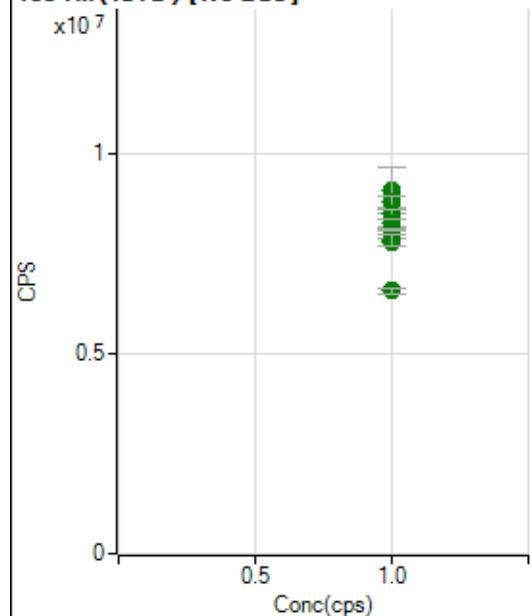
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		459114.07		P	3.2
2	☐	1.000		467223.09		P	3.8
3	☐	1.000		457301.82		P	3.7
4	☐	1.000		437866.80		P	2.5
5	☐	1.000		440342.16		P	2.6
6	☐	1.000		440625.06		P	2.5
7	☐	1.000		434648.72		P	3.2
8	☐	1.000		433216.52		P	2.7

89 Y (ISTD) [No Gas]

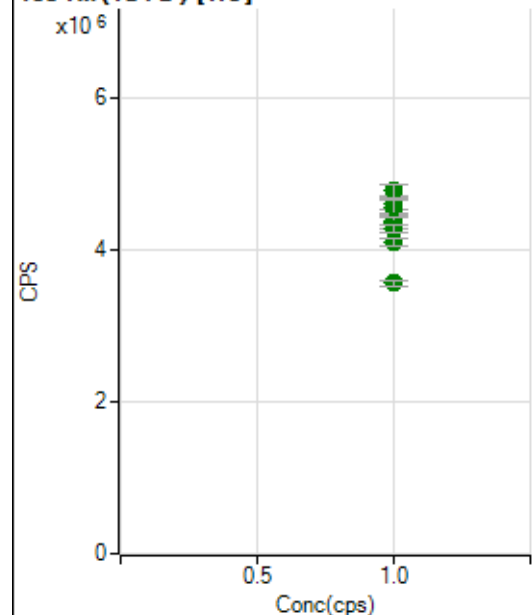
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15421669.91		A	12.1
2	☐	1.000		15170613.66		A	4.3
3	☐	1.000		14786989.92		A	2.7
4	☐	1.000		14340358.54		A	3.7
5	☐	1.000		14544377.98		A	3.8
6	☐	1.000		14297717.98		A	1.9
7	☐	1.000		14708088.11		A	3.2
8	☐	1.000		13429337.30		A	3.2

89 Y(ISTD) [He]

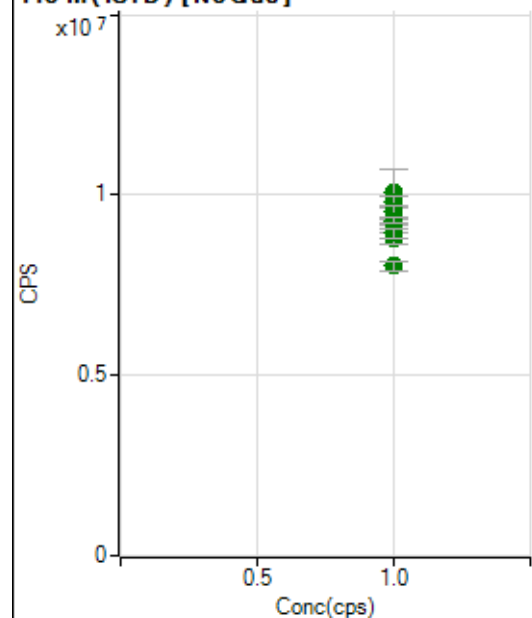
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3231154.19		A	2.6
2	☐	1.000		3366341.20		A	3.7
3	☐	1.000		3257677.49		A	4.9
4	☐	1.000		3138792.45		A	2.7
5	☐	1.000		3179938.74		A	3.9
6	☐	1.000		3195376.69		A	1.6
7	☐	1.000		3184193.53		A	1.2
8	☐	1.000		3074649.54		A	2.9

103 Rh(ISTD) [No Gas]

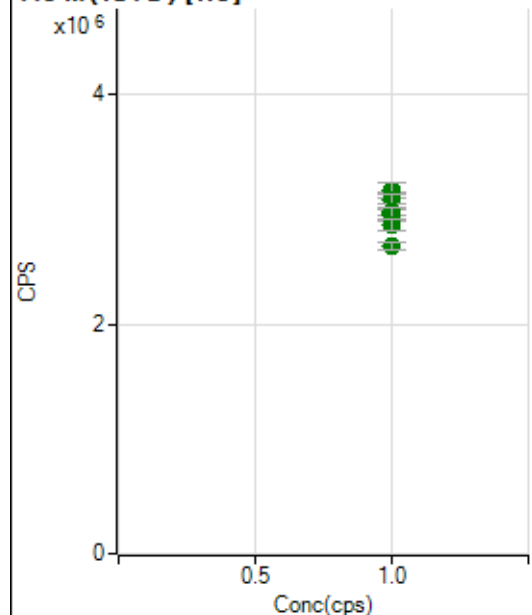
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9061173.69		A	12.7
2	☐	1.000		8781962.51		A	3.6
3	☐	1.000		8490388.00		A	2.8
4	☐	1.000		8252822.72		A	2.5
5	☐	1.000		8098947.38		A	1.0
6	☐	1.000		7788131.83		A	2.8
7	☐	1.000		7833152.32		A	3.2
8	☐	1.000		6569654.90		A	2.2

103 Rh (ISTD) [He]

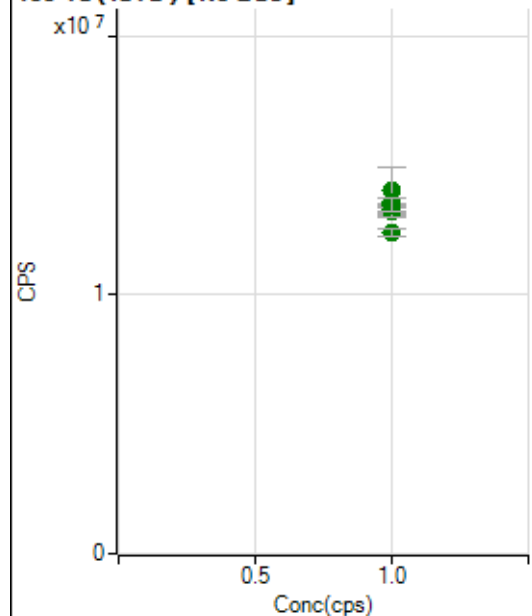
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4610673.85		A	3.9
2	☐	1.000		4774871.67		A	3.4
3	☐	1.000		4568033.68		A	4.3
4	☐	1.000		4376553.41		A	4.1
5	☐	1.000		4353341.36		A	3.8
6	☐	1.000		4274254.34		A	2.3
7	☐	1.000		4101927.40		A	2.5
8	☐	1.000		3565559.15		A	2.2

115 In (ISTD) [No Gas]

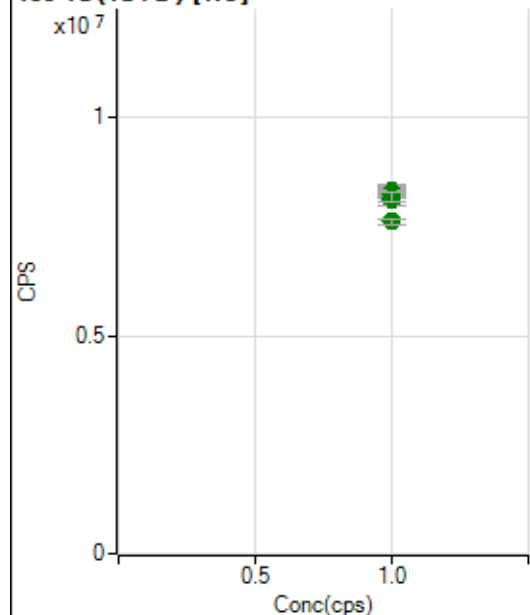
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10054226.11		A	13.1
2	☐	1.000		9806482.74		A	3.5
3	☐	1.000		9532414.72		A	3.7
4	☐	1.000		9235700.41		A	1.7
5	☐	1.000		9293667.12		A	1.5
6	☐	1.000		8795168.26		A	3.3
7	☐	1.000		8926774.02		A	2.6
8	☐	1.000		8029152.64		A	3.1

115 In (ISTD) [He]

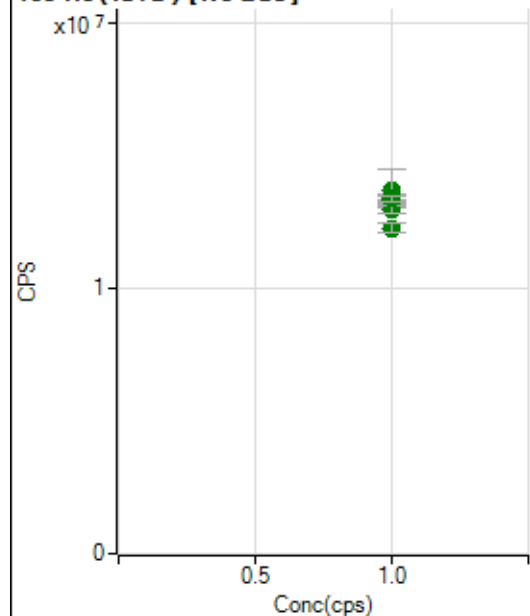
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3095098.60		A	3.0
2	☐	1.000		3157899.28		A	4.3
3	☐	1.000		3081464.07		A	2.7
4	☐	1.000		2979599.02		A	2.7
5	☐	1.000		2948212.19		A	3.3
6	☐	1.000		2956729.58		A	3.4
7	☐	1.000		2858092.78		A	3.6
8	☐	1.000		2677255.11		A	2.5

159 Tb (ISTD) [No Gas]

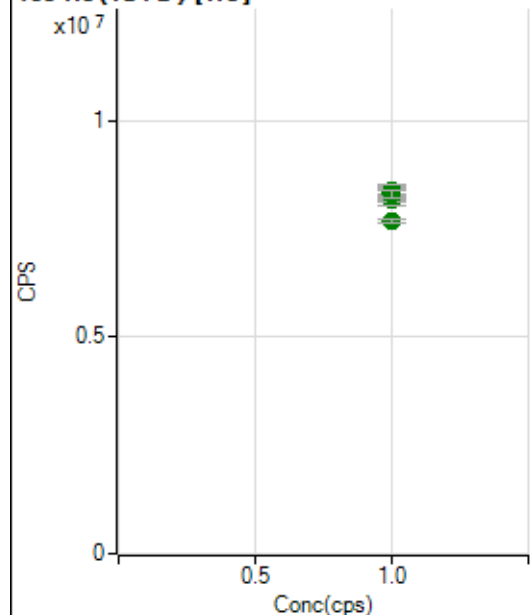
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14015146.46		A	12.9
2	☐	1.000		13558314.24		A	2.7
3	☐	1.000		13328715.64		A	2.3
4	☐	1.000		13277135.08		A	3.2
5	☐	1.000		13542065.91		A	2.6
6	☐	1.000		13187788.00		A	2.5
7	☐	1.000		13476509.24		A	3.4
8	☐	1.000		12422049.54		A	2.4

159 Tb (ISTD) [He]

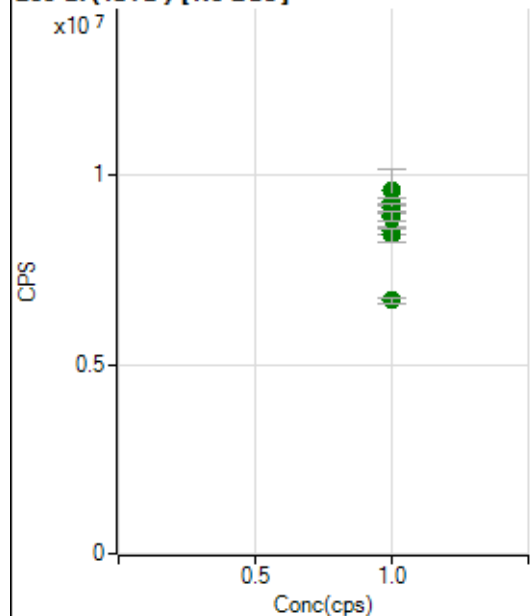
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8209629.60		A	3.6
2	☐	1.000		8313710.78		A	3.2
3	☐	1.000		8294226.47		A	3.4
4	☐	1.000		8102500.85		A	3.1
5	☐	1.000		8252710.50		A	2.4
6	☐	1.000		8275937.65		A	1.6
7	☐	1.000		8173884.67		A	2.5
8	☐	1.000		7616439.26		A	1.6

165 Ho (ISTD) [No Gas]

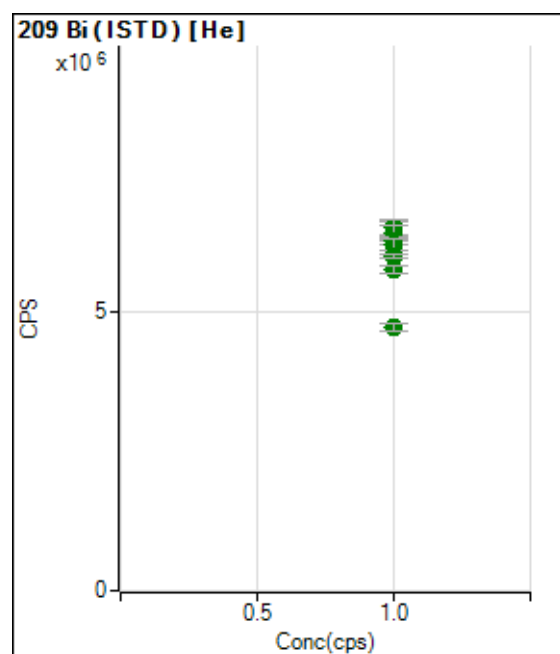
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13681610.21		A	12.5
2	☐	1.000		13449327.44		A	2.0
3	☐	1.000		13141822.30		A	1.2
4	☐	1.000		13095607.17		A	3.7
5	☐	1.000		13372497.44		A	1.3
6	☐	1.000		13008108.28		A	2.1
7	☐	1.000		13405056.75		A	1.8
8	☐	1.000		12260304.96		A	3.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8169137.10		A	3.0
2	☐	1.000		8340176.75		A	4.3
3	☐	1.000		8262380.64		A	3.5
4	☐	1.000		8295550.29		A	2.4
5	☐	1.000		8338639.04		A	3.0
6	☐	1.000		8367106.40		A	3.2
7	☐	1.000		8306905.36		A	2.0
8	☐	1.000		7691215.09		A	1.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9580568.26		A	11.5
2	☐	1.000		9286890.14		A	2.4
3	☐	1.000		9134899.93		A	2.8
4	☐	1.000		8900334.94		A	3.0
5	☐	1.000		8913501.95		A	3.2
6	☐	1.000		8516138.55		A	2.5
7	☐	1.000		8406667.37		A	4.1
8	☐	1.000		6691827.96		A	2.3



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6514488.86		A	3.9
2	☐	1.000		6509556.43		A	4.6
3	☐	1.000		6422111.36		A	4.3
4	☐	1.000		6281116.99		A	2.4
5	☐	1.000		6213360.11		A	2.9
6	☐	1.000		6013294.35		A	1.5
7	☐	1.000		5775212.00		A	2.3
8	☐	1.000		4716484.72		A	2.9

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7121322-MS.b

Acq. Date-Time 2022-12-13 11:09:33

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		12036	120364.53			0.417	5.000
24		291399	2913993.54			0.528	5.000
25		41027	410266.19			0.483	5.000
26		47007	470072.76			0.528	5.000
59		77215	772146.36			0.574	5.000
113		8889	88888.69			0.427	5.000
115		110529	1105289.92			0.950	5.000
206		31357	313573.79			0.580	5.000
207		28334	283335.89			0.372	5.000
208		66950	669504.30			0.404	5.000
220		0	0.60			69.722	

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

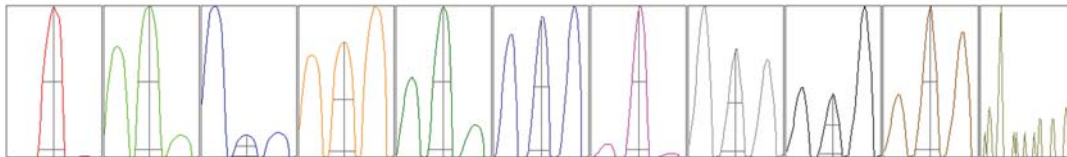
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	12084	12033	12090	11993	11982
24	290267	291636	293984	290447	290663
25	41232	40991	41211	40757	40943
26	47357	46844	47165	46753	46918
59	77198	77418	77800	76602	77055
113	8895	8865	8952	8858	8874
115	110256	110920	112141	109879	109449
206	31377	31331	31651	31170	31258
207	28333	28500	28349	28253	28233
208	66960	67050	67306	66875	66563

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	20655.30	9.00	8.90 - 9.10	
24	468867.19	23.95	23.90 - 24.10	
25	66504.57	24.95	24.90 - 25.10	
26	75166.94	25.95	25.90 - 26.10	
59	144852.25	59.00	58.90 - 59.10	
113	19980.78	113.05	112.90 - 113.10	
115	246364.79	115.05	114.90 - 115.10	
206	68355.42	206.00	205.90 - 206.10	
207	62374.87	207.00	206.90 - 207.10	
208	148424.97	208.00	207.90 - 208.10	
220	0.00	220.30	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.821	0.900	
24	0.66	0.830	0.900	
25	0.65	0.793	0.900	
26	0.66	0.820	0.900	
59	0.56	0.766	0.900	
113	0.45	0.679	0.900	
115	0.45	0.715	0.900	
206	0.45	0.762	0.900	
207	0.46	0.759	0.900	
208	0.45	0.768	0.900	
220	0.18	0.175		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 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	0.0 V	Omega Lens	8.7 V	Deflect	15.8 V
Extract 2	-100.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0002	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.8 mm
---------	---------	---------	--------

EM

Discriminator	3.1 mV	Analog HV	2240 V	Pulse HV	1473 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		22964	229635.89			0.963	
89		75275	752748.14			1.333	
205		28804	288037.42			0.967	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	23066	22751	23227	22716	23058
89	75783	73914	76382	74572	75723
205	29033	28533	29046	28474	28933

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 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	0.0 V	Omega Lens	9.5 V	Deflect	3.0 V
-----------	-------	------------	-------	---------	-------

US EPA Tune Check Report

Extract 2	-100.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-60 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	180 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.8 mm
---------	---------	---------	--------

EM

Discriminator	3.1 mV	Analog HV	2240 V	Pulse HV	1473 V
---------------	--------	-----------	--------	----------	--------