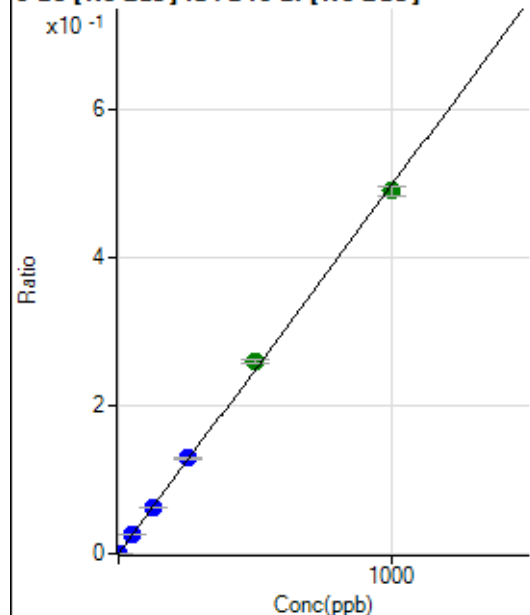


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8091422MS-3.b\
Analysis File: P8091422MS-3.batch.bin
DA Date-Time: 2022-09-14 18:46:23
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	006CALB.d	S00	2022-09-14 13:25:49
2	007CALS.d	S02	2022-09-14 13:28:58
3	008CALS.d	S03	2022-09-14 13:32:09
4	009CALS.d	S04	2022-09-14 13:35:16
5	010CALS.d	S05	2022-09-14 13:38:24
6	011CALS.d	S06	2022-09-14 13:41:31
7	012CALS.d	S07	2022-09-14 13:44:40
8	013CALS.d	S08	2022-09-14 13:47:46

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	47.91	0.0000	P	9.9
2	☐	1.000	1.145	3490.40	0.0006	P	4.6
3	☐	50.000	53.087	163752.96	0.0264	P	1.0
4	☐	125.000	126.832	397406.32	0.0631	P	1.5
5	☐	250.000	259.380	774361.88	0.1289	P	3.2
6	☐	500.000	523.987	1512586.05	0.2605	A	2.0
7	☐	1000.000	985.278	2872321.51	0.4898	A	2.9
8	☐			575.36	0.0001	P	11.1

$$y = 4.9711\text{E-}004 * x + 8.1591\text{E-}006$$

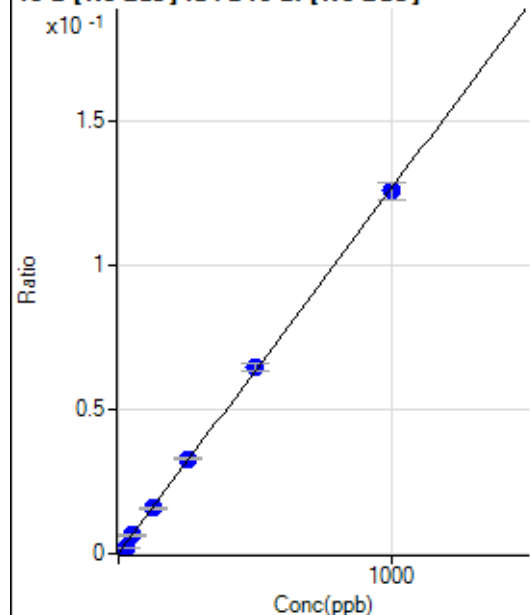
$$R = 0.9995$$

$$DL = 0.004868$$

$$BEC = 0.01641$$

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	568.57	0.0001	P	3.2
2	☐	25.000	14.597	11751.07	0.0019	P	2.2
3	☐	50.000	50.134	39887.48	0.0064	P	5.0
4	☐	125.000	123.744	99142.22	0.0157	P	3.9
5	☐	250.000	259.535	197620.43	0.0329	P	1.9
6	☐	500.000	509.896	374690.46	0.0645	P	3.7
7	☐	1000.000	993.079	736348.12	0.1256	P	4.5
8	☐			46864.26	0.0088	P	8.6

$$y = 1.2638\text{E-}004 * x + 9.6636\text{E-}005$$

$$R = 0.9998$$

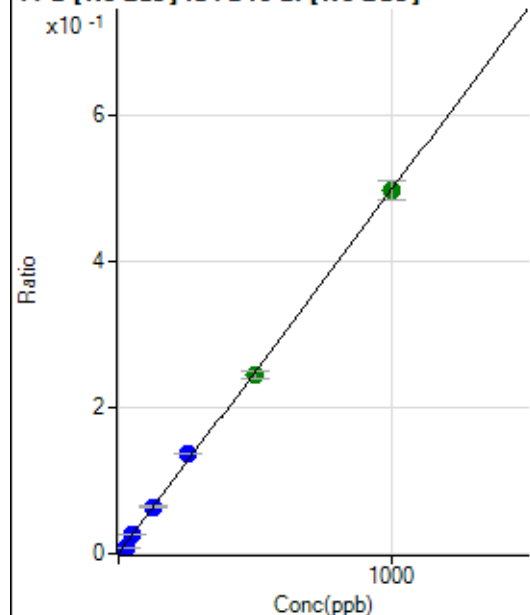
$$DL = 0.07244$$

$$BEC = 0.7646$$

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	2417.73	0.0004	P	1.7
2	☐	25.000	15.372	48837.13	0.0081	P	4.0
3	☐	50.000	53.357	167366.15	0.0270	P	4.8
4	☐	125.000	128.618	406302.91	0.0645	P	3.3
5	☐	250.000	274.822	824822.50	0.1373	P	1.5
6	☐	500.000	492.138	1425838.07	0.2456	A	4.0
7	☐	1000.000	997.346	2914673.95	0.4973	A	5.3
8	☐			198123.19	0.0374	P	8.3

$$y = 4.9818\text{E-}004 * x + 4.1071\text{E-}004$$

$$R = 0.9995$$

$$DL = 0.04114$$

$$BEC = 0.8244$$

Weight: <None>

Min Conc: 0

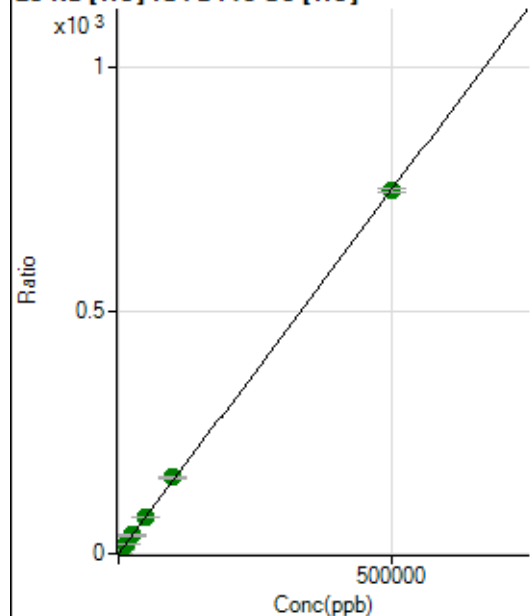
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3562366.74		A	2.5
2	☐			3721882.64		A	1.4
3	☐			3992179.21		A	1.6
4	☐			4235087.73		A	1.1
5	☐			4608456.53		A	1.6
6	☐			5371685.15		A	2.6
7	☐			6879002.06		A	3.9
8	☐			6274058.60		A	1.8

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44788.25		P	2.0
2	☐			46278.89		P	2.2
3	☐			51220.82		P	2.1
4	☐			53796.44		P	1.0
5	☐			60156.92		P	0.7
6	☐			71853.62		P	2.5
7	☐			95646.86		P	1.4
8	☐			84403.68		P	1.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	24036.98	0.1091	P	1.6
2	☐	500.000	498.463	195602.99	0.8543	P	2.4
3	☐	5000.000	5409.777	1850743.79	8.1967	A	2.6
4	☐	12500.000	13379.230	4423955.61	20.1110	A	3.5
5	☐	25000.000	25207.125	8368932.48	37.7937	A	5.1
6	☐	50000.000	51142.734	16765067.39	76.5673	A	0.9
7	☐	100000.00	105073.71	34304610.49	157.1940	A	1.4
8	☐	500000.00	498834.55	156795966.0	745.8652	A	1.0

$$y = 0.0015 * x + 0.1091$$

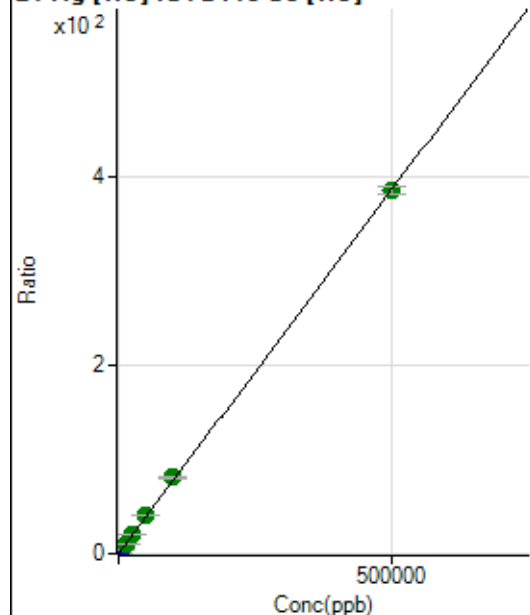
$$R = 0.9999$$

$$DL = 3.533$$

$$BEC = 72.98$$

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	308.34	0.0014	P	6.6
2	☐	500.000	519.857	92278.59	0.4030	P	2.5
3	☐	5000.000	5381.051	938667.98	4.1579	P	3.5
4	☐	12500.000	13508.810	2294922.43	10.4360	A	1.3
5	☐	25000.000	25876.844	4426794.76	19.9894	A	4.3
6	☐	50000.000	51766.630	8753505.32	39.9875	A	0.3
7	☐	100000.00	104526.43	17620938.93	80.7407	A	1.4
8	☐	500000.00	498845.15	80994858.75	385.3242	A	2.0

$$y = 7.7243\text{E-}004 * x + 0.0014$$

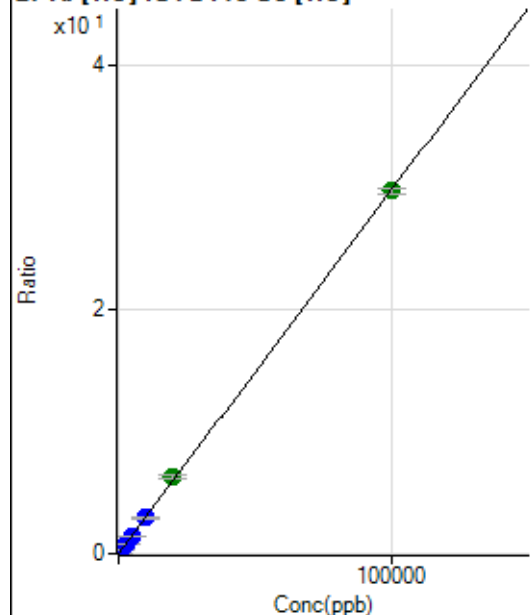
$$R = 1.0000$$

$$DL = 0.3581$$

$$BEC = 1.811$$

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	133.73	0.0006	P	3.6
2	☐	20.000	20.030	1505.73	0.0066	P	4.7
3	☐	1000.000	1046.140	70564.69	0.3126	P	3.5
4	☐	2500.000	2583.673	169586.04	0.7711	P	0.3
5	☐	5000.000	4863.198	321324.34	1.4508	P	4.2
6	☐	10000.000	9816.752	640870.69	2.9279	P	1.5
7	☐	20000.000	21226.517	1381519.42	6.3303	A	3.6
8	☐	100000.00	99777.308	6254261.93	29.7539	A	1.7

$$y = 2.9820\text{E-}004 * x + 6.0694\text{E-}004$$

$$R = 0.9999$$

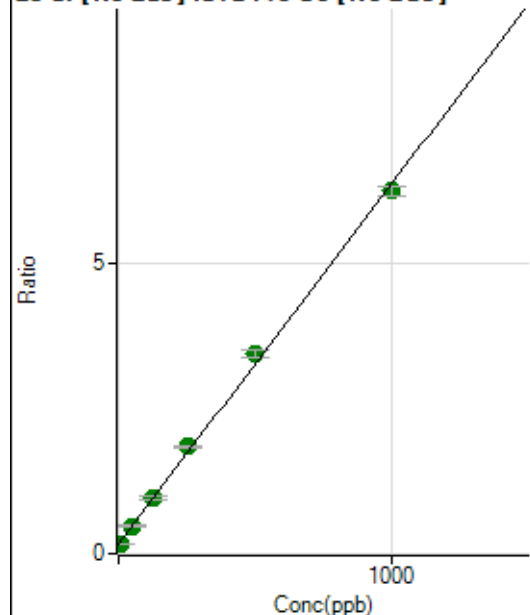
$$DL = 0.2224$$

$$BEC = 2.035$$

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	937153.19	0.1730	A	0.7
2	☐	10.000	0.842	986738.34	0.1782	A	1.8
3	☐	50.000	49.461	2817235.61	0.4788	A	2.2
4	☐	125.000	127.716	5542177.21	0.9628	A	4.4
5	☐	250.000	269.613	10183726.44	1.8402	A	0.9
6	☐	500.000	527.991	18644297.81	3.4380	A	3.3
7	☐	1000.000	980.880	34551623.34	6.2387	A	3.0
8	☐			2153801.92	0.4032	A	2.3

$$y = 0.0062 * x + 0.1730$$

$$R = 0.9990$$

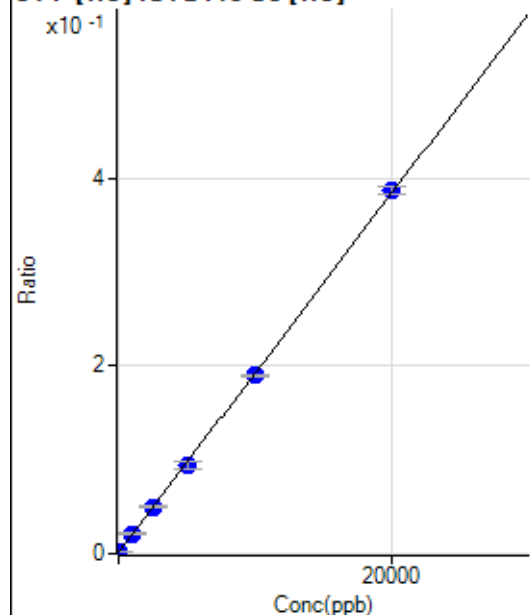
$$DL = 0.5677$$

$$BEC = 27.97$$

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	-5.099	455.57	0.0021	P	25.6
2	☐	0.000	5.099	516.69	0.0023	P	11.2
3	☐	1000.000	978.986	4712.01	0.0209	P	6.2
4	☐	2500.000	2509.224	11026.75	0.0501	P	3.3
5	☐	5000.000	4829.233	20910.12	0.0945	P	7.3
6	☐	10000.000	9840.153	41629.98	0.1902	P	1.3
7	☐	20000.000	20122.513	84393.12	0.3867	P	2.1
8	☐			455.58	0.0022	P	5.7

$$y = 1.9110E-005 * x + 0.0022$$

$$R = 0.9999$$

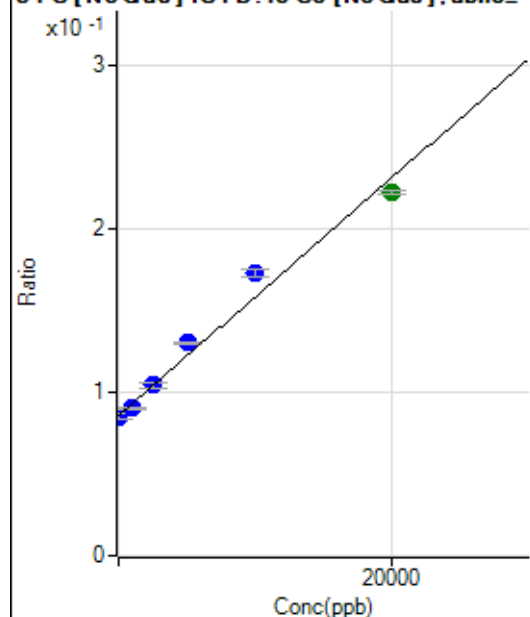
$$DL = 61.35$$

$$BEC = 113.2$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	70.491	467448.92	0.0863	P	0.8
2	☐	0.000	-70.491	472040.60	0.0853	P	3.2
3	☐	1000.000	597.449	530220.88	0.0901	P	1.3
4	☐	2500.000	2537.603	600139.19	0.1042	P	2.5
5	☐	5000.000	6145.882	722030.33	0.1305	P	1.1
6	☐	10000.000	11999.121	938524.07	0.1730	P	2.6
7	☐	20000.000	18729.396	1229717.84	0.2220	A	1.2
8	☐			394488.00	0.0739	P	2.8

$$y = 7.2736E-006 * x + 0.0858$$

$$R = 0.9894$$

$$DL = 704.2$$

$$BEC = 1.179E+04$$

Weight: <None>

Min Conc: 0

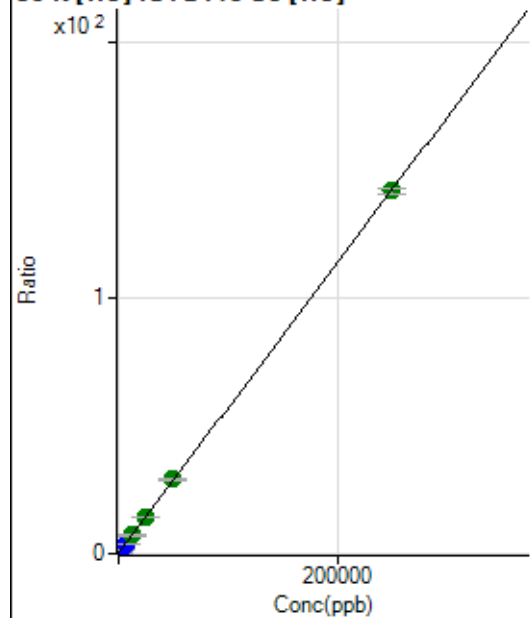
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			311857.32		P	1.5
2	☐			336744.49		P	0.8
3	☐			353860.47		P	0.8
4	☐			358905.34		P	1.2
5	☐			351097.76		P	1.2
6	☐			321133.66		P	0.8
7	☐			326862.90		P	0.5
8	☐			304368.46		P	0.7

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2525.29		P	4.5
2	☐			2900.36		P	3.0
3	☐			2825.35		P	9.9
4	☐			3011.50		P	8.9
5	☐			2853.13		P	5.0
6	☐			2578.08		P	3.2
7	☐			2611.42		P	8.7
8	☐			2664.20		P	6.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	26675.13	0.1211	P	1.6
2	☐	500.000	476.473	89600.08	0.3914	P	3.7
3	☐	2500.000	2546.117	353522.01	1.5658	P	2.6
4	☐	6250.000	6415.083	827002.31	3.7611	P	1.7
5	☐	12500.000	12506.651	1598540.28	7.2175	A	3.8
6	☐	25000.000	25121.766	3146573.88	14.3754	A	3.1
7	☐	50000.000	50930.327	6332701.49	29.0194	A	2.7
8	☐	250000.00	249796.88	29822539.90	141.8580	A	1.7

$$y = 5.6741E-004 * x + 0.1211$$

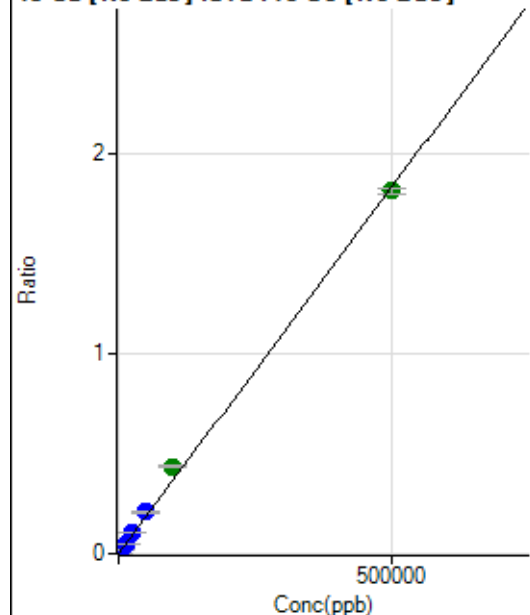
$$R = 1.0000$$

$$DL = 10.5$$

$$BEC = 213.4$$

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	473.28	0.0001	P	5.2
2	☐	500.000	510.110	10816.47	0.0020	P	2.7
3	☐	5000.000	5552.781	120036.64	0.0204	P	1.0
4	☐	12500.000	14027.053	295947.17	0.0514	P	2.9
5	☐	25000.000	29359.835	594860.05	0.1075	P	0.7
6	☐	50000.000	57330.064	1137632.02	0.2098	P	4.2
7	☐	100000.00	118480.23	2401239.75	0.4335	A	2.5
8	☐	500000.00	495309.24	9678963.27	1.8120	A	1.4

$$y = 3.6581E-006 * x + 8.7332E-005$$

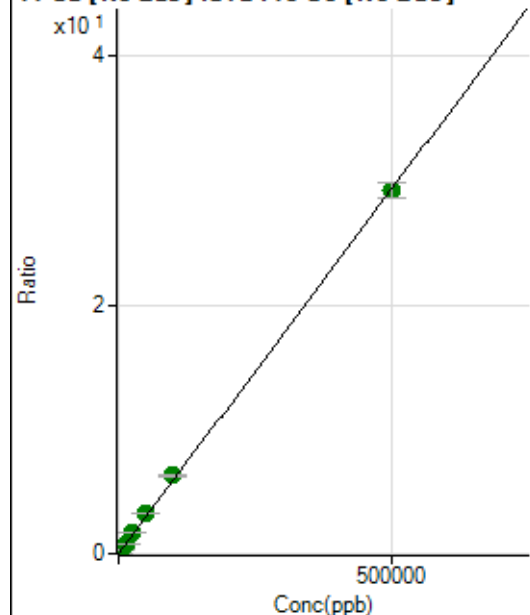
$$R = 0.9992$$

$$DL = 3.696$$

$$BEC = 23.87$$

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	16423.57	0.0030	P	1.5
2	☐	500.000	507.969	181691.10	0.0328	P	3.1
3	☐	5000.000	5594.919	1948010.89	0.3311	A	0.9
4	☐	12500.000	13548.944	4592270.76	0.7974	A	1.5
5	☐	25000.000	28528.390	9273484.79	1.6757	A	1.9
6	☐	50000.000	55856.118	17778676.65	3.2780	A	2.8
7	☐	100000.00	107142.91	34811943.15	6.2850	A	3.1
8	☐	500000.00	497777.20	155840433.5	29.1885	A	4.2

$$y = 5.8632E-005 * x + 0.0030$$

$$R = 0.9998$$

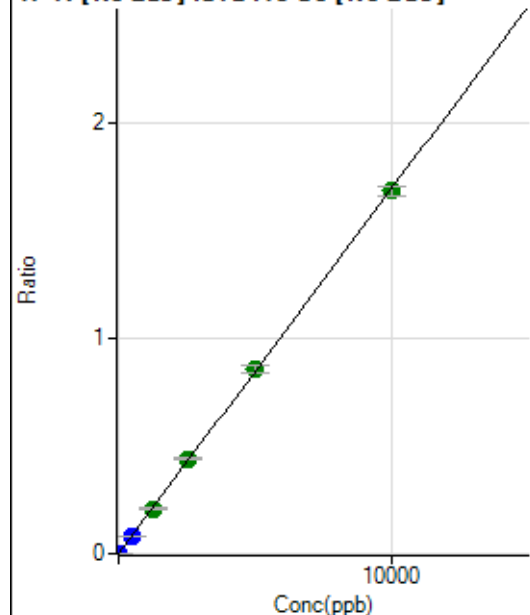
$$DL = 2.366$$

$$BEC = 51.71$$

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	369.46	0.0001	P	9.4
2	☐	5.000	5.065	5120.49	0.0009	P	5.2
3	☐	500.000	492.268	490151.05	0.0833	P	1.0
4	☐	1250.000	1232.736	1200299.44	0.2085	A	4.1
5	☐	2500.000	2591.734	2425480.42	0.4383	A	2.3
6	☐	5000.000	5076.644	4656163.52	0.8584	A	4.0
7	☐	10000.000	9941.289	9310163.92	1.6810	A	2.6
8	☐			1622.35	0.0003	P	8.9

$$y = 1.6908\text{E-}004 * x + 6.8209\text{E-}005$$

$$R = 0.9999$$

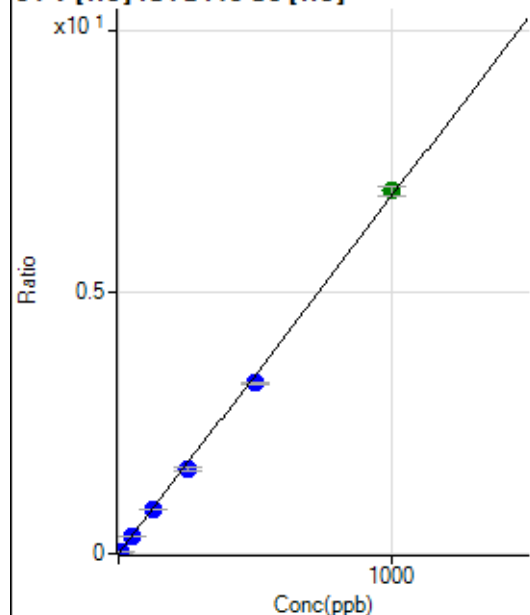
$$DL = 0.1139$$

$$BEC = 0.4034$$

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	14.45	0.0001	P	46.9
2	☐	5.000	4.689	7351.95	0.0321	P	3.2
3	☐	50.000	48.347	74588.77	0.3304	P	3.4
4	☐	125.000	121.268	182248.15	0.8286	P	0.3
5	☐	250.000	237.202	358986.56	1.6207	P	3.7
6	☐	500.000	476.995	713337.19	3.2591	P	1.1
7	☐	1000.000	1015.253	1513757.11	6.9367	A	2.3
8	☐			945.60	0.0045	P	4.1

$$y = 0.0068 * x + 6.5207\text{E-}005$$

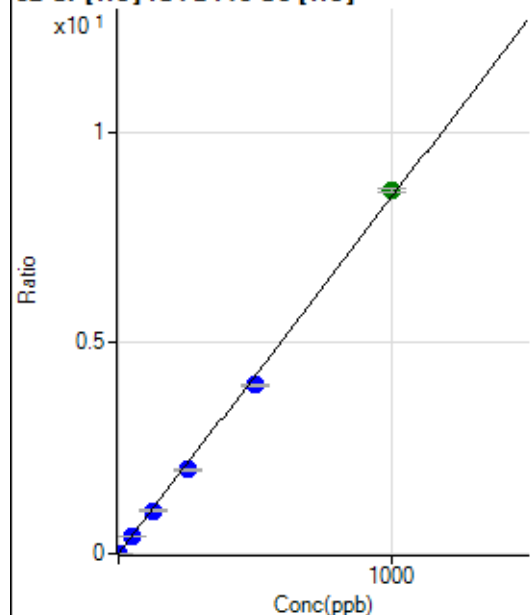
$$R = 0.9995$$

$$DL = 0.01344$$

$$BEC = 0.009544$$

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	545.57	0.0025	P	4.5
2	☐	2.000	1.914	4268.46	0.0186	P	4.1
3	☐	50.000	48.112	92377.62	0.4091	P	1.5
4	☐	125.000	120.800	225077.53	1.0234	P	0.8
5	☐	250.000	235.214	440867.83	1.9903	P	3.3
6	☐	500.000	472.637	874989.20	3.9968	P	0.4
7	☐	1000.000	1017.997	1878073.31	8.6058	A	1.0
8	☐			5338.82	0.0254	P	1.8

$$y = 0.0085 * x + 0.0025$$

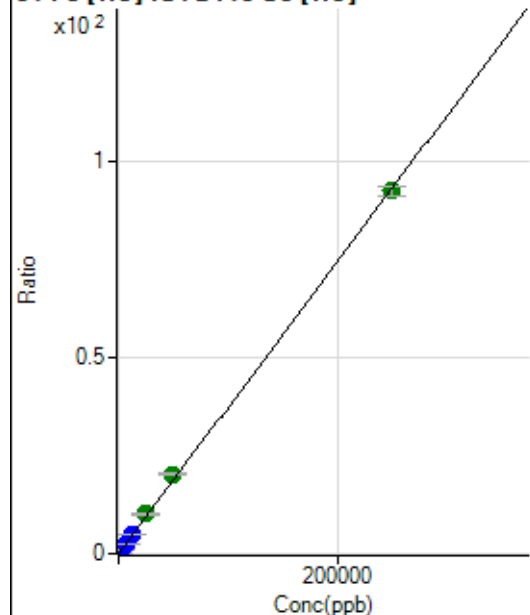
$$R = 0.9993$$

$$DL = 0.03953$$

$$BEC = 0.2928$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	924.12	0.0042	P	14.9
2	☐	50.000	51.055	5315.90	0.0232	P	2.5
3	☐	2500.000	2626.586	221875.08	0.9825	P	1.8
4	☐	6250.000	6624.389	543557.20	2.4716	P	1.1
5	☐	12500.000	12836.684	1059981.83	4.7856	P	3.4
6	☐	25000.000	27245.574	2221868.02	10.1526	A	2.8
7	☐	50000.000	54476.750	4428811.56	20.2956	A	3.4
8	☐	250000.00	248852.63	19484578.67	92.6963	A	2.9

$$y = 3.7248E-004 * x + 0.0042$$

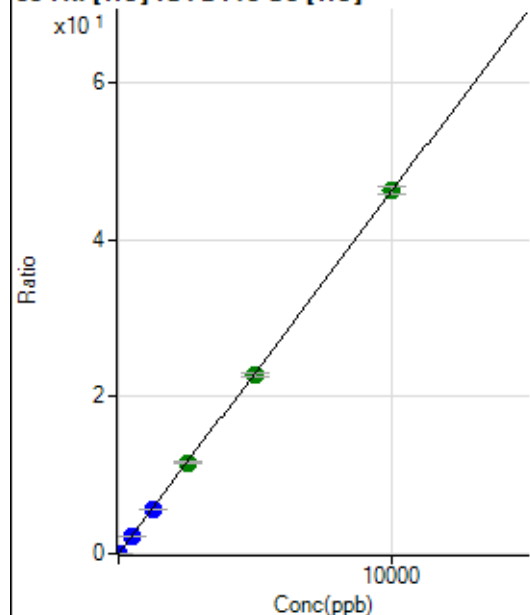
$$R = 0.9998$$

$$DL = 5.039$$

$$BEC = 11.28$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61.11	0.0003	P	21.5
2	☐	1.000	0.972	1086.72	0.0048	P	10.0
3	☐	500.000	495.818	515863.25	2.2849	P	3.0
4	☐	1250.000	1237.223	1253803.34	5.7011	P	0.7
5	☐	2500.000	2518.644	2570947.84	11.6056	A	2.9
6	☐	5000.000	4958.903	5004241.11	22.8497	A	2.3
7	☐	10000.000	10017.694	10073225.48	46.1594	A	2.0
8	☐			5541.13	0.0264	P	3.0

$$y = 0.0046 * x + 2.7688E-004$$

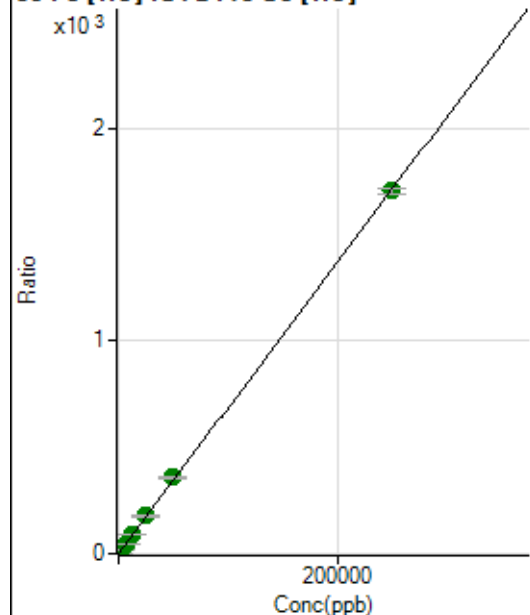
$$R = 1.0000$$

$$DL = 0.03867$$

$$BEC = 0.06009$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4543.39	0.0206	P	6.3
2	☐	50.000	49.042	81461.97	0.3559	P	4.3
3	☐	2500.000	2695.141	4164583.77	18.4468	A	3.3
4	☐	6250.000	6647.200	9998517.01	45.4663	A	1.2
5	☐	12500.000	12926.019	19581529.83	88.3935	A	2.9
6	☐	25000.000	25781.448	38596156.42	176.2837	A	1.1
7	☐	50000.000	52364.252	78138634.15	358.0255	A	1.2
8	☐	250000.00	249415.82	358443878.3	1,705.231	A	1.5

$$y = 0.0068 * x + 0.0206$$

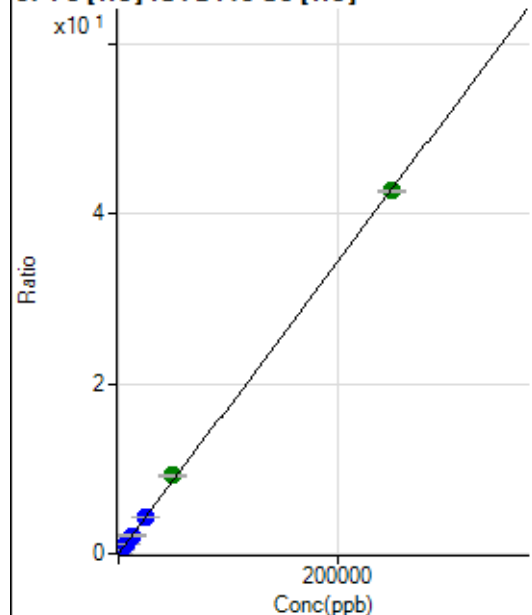
$$R = 1.0000$$

$$DL = 0.567$$

$$BEC = 3.018$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	218.52	0.0010	P	19.2
2	☐	50.000	50.860	2224.29	0.0097	P	2.2
3	☐	2500.000	2562.364	99411.58	0.4403	P	3.0
4	☐	6250.000	6482.198	244593.03	1.1124	P	1.8
5	☐	12500.000	12386.003	470583.06	2.1246	P	4.3
6	☐	25000.000	24825.703	932005.34	4.2574	P	2.2
7	☐	50000.000	53918.666	2017580.61	9.2455	A	2.5
8	☐	250000.00	249232.96	8983273.81	42.7329	A	0.8

$$y = 1.7145E-004 * x + 9.9404E-004$$

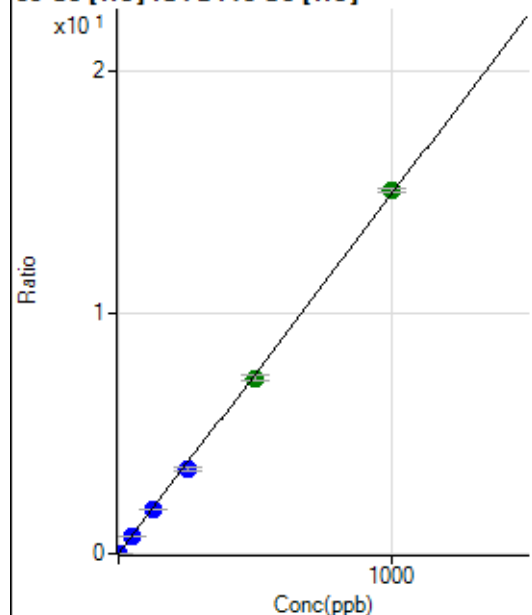
$$R = 0.9999$$

$$DL = 3.344$$

$$BEC = 5.798$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	86.67	0.0004	P	4.3
2	☐	1.000	0.976	3419.33	0.0149	P	2.8
3	☐	50.000	49.374	166193.92	0.7360	P	2.2
4	☐	125.000	123.928	406171.84	1.8469	P	1.6
5	☐	250.000	236.291	779804.26	3.5210	P	4.2
6	☐	500.000	488.701	1593904.65	7.2818	A	3.1
7	☐	1000.000	1009.242	3281736.30	15.0376	A	1.0
8	☐			11736.07	0.0558	P	4.0

$$y = 0.0149 * x + 3.9343E-004$$

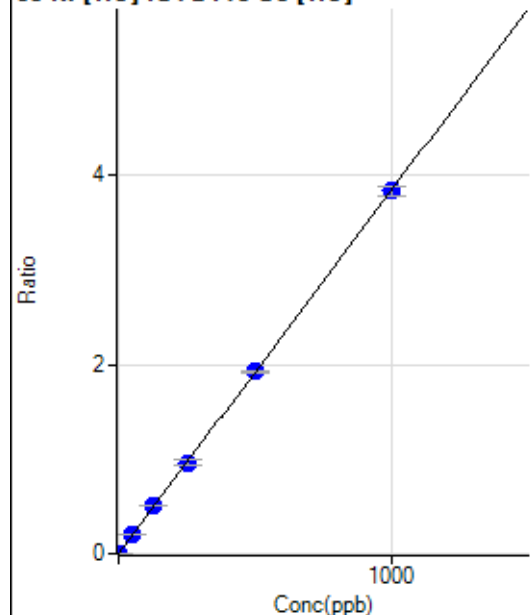
$$R = 0.9998$$

$$DL = 0.003389$$

$$BEC = 0.02641$$

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	67.78	0.0003	P	10.6
2	☐	1.000	1.010	957.82	0.0042	P	3.1
3	☐	50.000	52.158	45246.43	0.2004	P	4.5
4	☐	125.000	131.594	111095.25	0.5053	P	2.3
5	☐	250.000	249.744	212280.88	0.9586	P	5.6
6	☐	500.000	501.763	421519.73	1.9257	P	1.3
7	☐	1000.000	998.250	835980.25	3.8308	P	2.4
8	☐			3277.08	0.0156	P	3.1

$$y = 0.0038 * x + 3.0747E-004$$

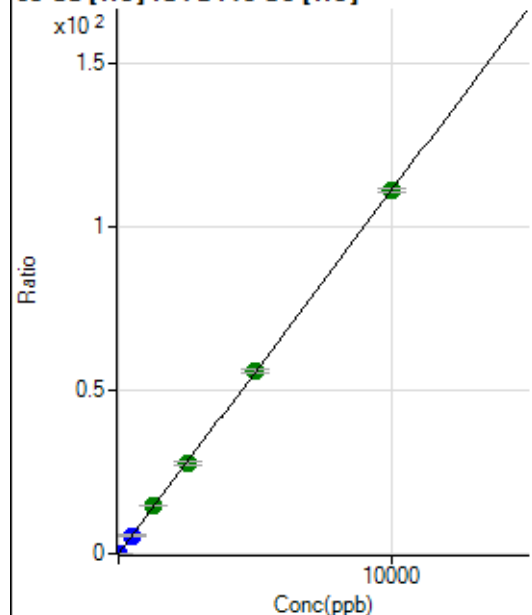
$$R = 1.0000$$

$$DL = 0.0254$$

$$BEC = 0.08013$$

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	1317.85	0.0060	P	3.8
2	☐	2.000	1.988	6422.62	0.0281	P	4.0
3	☐	500.000	500.358	1255705.54	5.5624	P	3.7
4	☐	1250.000	1305.923	3190884.74	14.5081	A	0.8
5	☐	2500.000	2488.527	6119757.34	27.6408	A	5.7
6	☐	5000.000	5022.846	12209599.82	55.7842	A	1.4
7	☐	10000.000	9984.437	24199659.64	110.8822	A	1.1
8	☐			5558.93	0.0264	P	3.6

$$y = 0.0111 * x + 0.0060$$

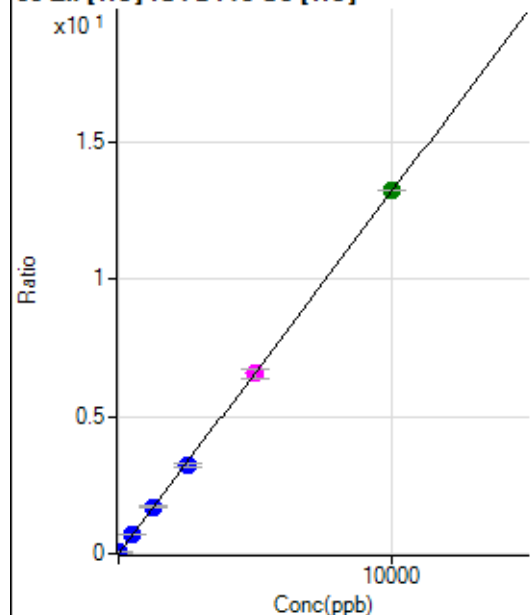
$$R = 1.0000$$

$$DL = 0.06177$$

$$BEC = 0.5386$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	183.34	0.0008	P	22.7
2	☐	2.000	42.699	13081.74	0.0571	P	1.1
3	☐	500.000	519.202	154700.11	0.6852	P	3.3
4	☐	1250.000	1297.142	376107.48	1.7106	P	2.2
5	☐	2500.000	2448.498	714848.57	3.2282	P	4.7
6	☐	5000.000	4968.495	1432754.86	6.5499	M	4.8
7	☐	10000.000	10021.767	2883081.24	13.2106	A	0.2
8	☐			2486.91	0.0118	P	2.3

$$y = 0.0013 * x + 8.3420E-004$$

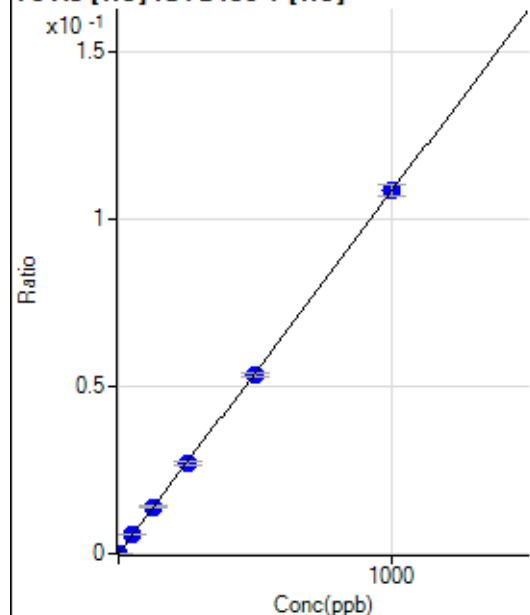
$$R = 1.0000$$

$$DL = 0.4316$$

$$BEC = 0.6329$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7.33	0.0000	P	42.4
2	☐	1.000	1.134	213.69	0.0001	P	9.8
3	☐	50.000	52.345	9410.42	0.0057	P	3.4
4	☐	125.000	129.605	22955.57	0.0140	P	1.2
5	☐	250.000	251.159	43858.05	0.0272	P	4.6
6	☐	500.000	495.412	87370.47	0.0537	P	1.9
7	☐	1000.000	1001.311	175297.23	0.1085	P	3.2
8	☐			128.01	0.0001	P	6.4

$$y = 1.0833E-004 * x + 4.6178E-006$$

$$R = 1.0000$$

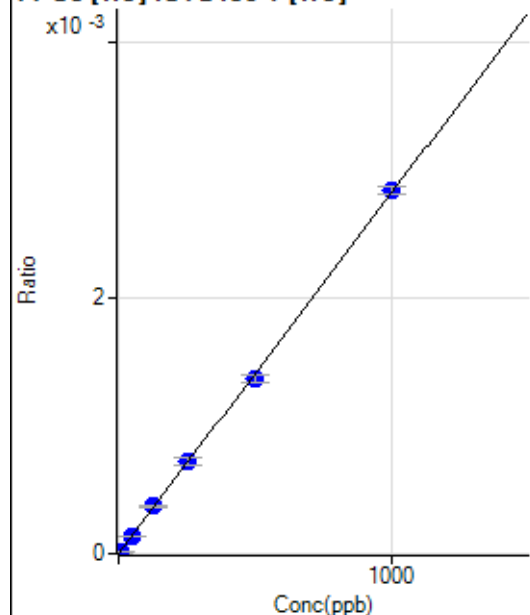
$$DL = 0.05428$$

$$BEC = 0.04263$$

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	2.22	0.0000	P	86.6
2	☐	5.000	3.498	18.89	0.0000	P	40.6
3	☐	50.000	47.721	225.56	0.0001	P	8.8
4	☐	125.000	131.365	607.80	0.0004	P	2.9
5	☐	250.000	256.407	1166.73	0.0007	P	8.4
6	☐	500.000	484.521	2227.98	0.0014	P	4.8
7	☐	1000.000	1005.464	4586.35	0.0028	P	2.2
8	☐			2.22	0.0000	P	86.6

$$y = 2.8206\text{E-}006 * x + 1.4004\text{E-}006$$

$$R = 0.9998$$

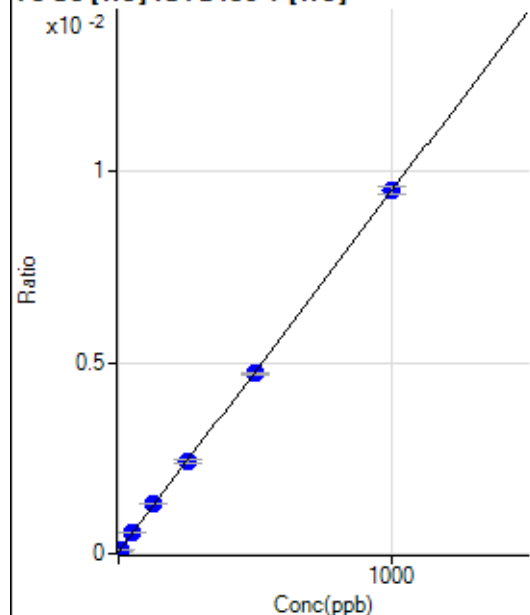
$$DL = 1.29$$

$$BEC = 0.4965$$

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	87.01	0.0001	P	6.6
2	☐	5.000	5.981	186.02	0.0001	P	3.8
3	☐	50.000	54.527	942.46	0.0006	P	2.9
4	☐	125.000	131.644	2116.04	0.0013	P	0.5
5	☐	250.000	252.225	3918.94	0.0024	P	3.7
6	☐	500.000	494.188	7667.87	0.0047	P	0.5
7	☐	1000.000	1001.288	15332.20	0.0095	P	2.3
8	☐			91.68	0.0001	P	12.3

$$y = 9.4194\text{E-}006 * x + 5.4652\text{E-}005$$

$$R = 0.9999$$

$$DL = 1.15$$

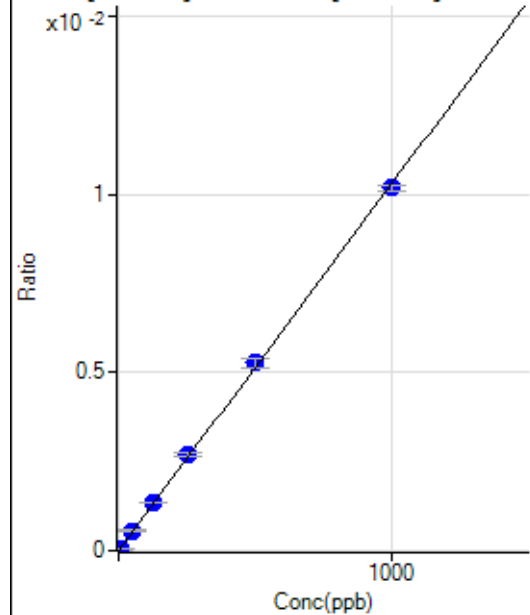
$$BEC = 5.802$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			55390.89		P	4.6
2	☐			57018.74		P	0.9
3	☐			55895.67		P	2.8
4	☐			56875.16		P	1.6
5	☐			58182.07		P	1.9
6	☐			54325.19		P	1.0
7	☐			55588.35		P	3.0
8	☐			53156.07		P	3.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11.66	0.0000	P	115.
2	☐	5.000	5.442	665.37	0.0001	P	14.2
3	☐	50.000	54.528	6607.15	0.0006	P	2.5
4	☐	125.000	130.433	16216.47	0.0013	P	3.0
5	☐	250.000	262.761	31882.36	0.0027	P	3.2
6	☐	500.000	513.231	60732.24	0.0053	P	5.0
7	☐	1000.000	989.286	119888.80	0.0102	P	1.8
8	☐			161.66	0.0000	P	16.4

$$y = 1.0303E-005 * x + 1.0122E-006$$

$$R = 0.9998$$

$$DL = 0.341$$

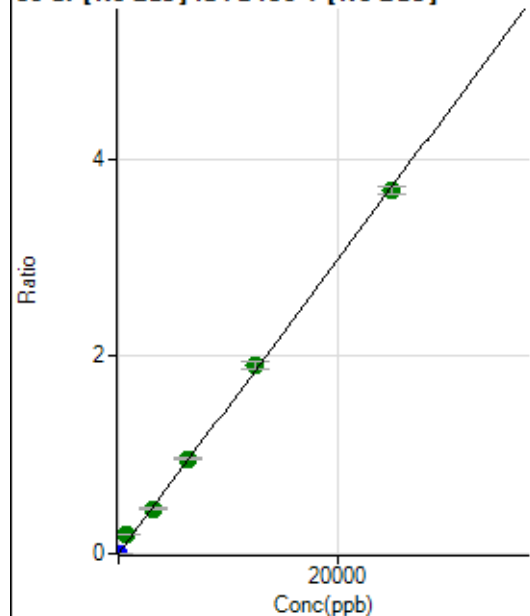
$$BEC = 0.09824$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			318.30		P	6.9
2	☐			310.80		P	5.3
3	☐			330.38		P	4.1
4	☐			330.38		P	7.9
5	☐			325.38		P	7.9
6	☐			326.21		P	5.6
7	☐			347.46		P	1.9
8	☐			358.29		P	8.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	647.25	0.0001	P	11.2
2	☐	1.000	1.000	2400.28	0.0002	P	3.5
3	☐	625.000	1305.549	2279679.39	0.1942	A	1.2
4	☐	3125.000	3068.186	5500445.09	0.4562	A	4.2
5	☐	6250.000	6486.803	11354699.38	0.9645	A	2.9
6	☐	12500.000	12848.303	21941393.89	1.9103	A	3.5
7	☐	25000.000	24756.736	43289438.12	3.6807	A	2.2
8	☐			12848.08	0.0011	P	6.0

$$y = 1.4867E-004 * x + 5.7103E-005$$

$$R = 0.9995$$

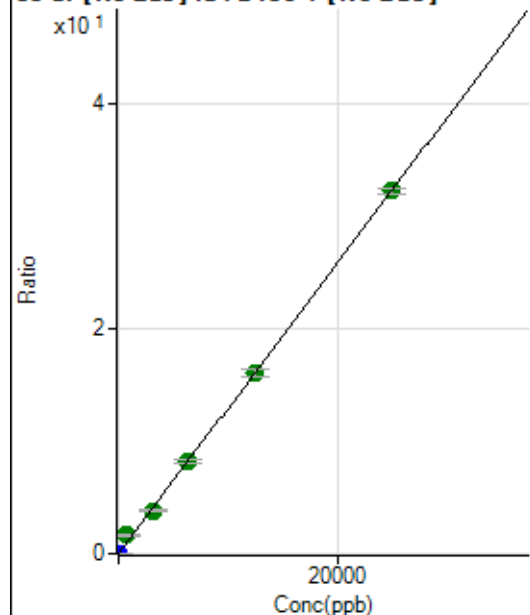
$$DL = 0.1296$$

$$BEC = 0.3841$$

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	441.69	0.0000	P	10.7
2	☐	1.000	1.001	15489.65	0.0013	P	5.2
3	☐	625.000	1264.614	19153614.14	1.6310	A	0.9
4	☐	3125.000	2978.454	46324581.24	3.8414	A	2.3
5	☐	6250.000	6367.473	96700461.88	8.2123	A	3.3
6	☐	12500.000	12429.233	184084227.7	16.0302	A	4.8
7	☐	25000.000	25008.343	379362144.5	32.2537	A	1.4
8	☐			104598.25	0.0092	P	9.0

$$y = 0.0013 * x + 3.9061E-005$$

$$R = 0.9996$$

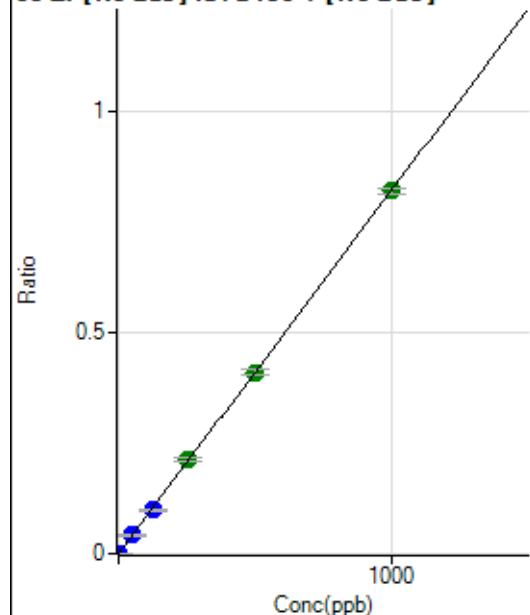
$$DL = 0.009717$$

$$BEC = 0.03029$$

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	616.69	0.0001	P	4.8
2	☐	1.000	0.938	9614.66	0.0008	P	1.8
3	☐	50.000	50.281	485178.43	0.0413	P	1.6
4	☐	125.000	120.175	1190021.57	0.0987	P	3.0
5	☐	250.000	259.667	2511060.50	0.2132	A	2.4
6	☐	500.000	498.955	4704315.43	0.4096	A	3.7
7	☐	1000.000	998.695	9641251.87	0.8197	A	1.9
8	☐			4814.84	0.0004	P	4.4

$$y = 8.2076E-004 * x + 5.4455E-005$$

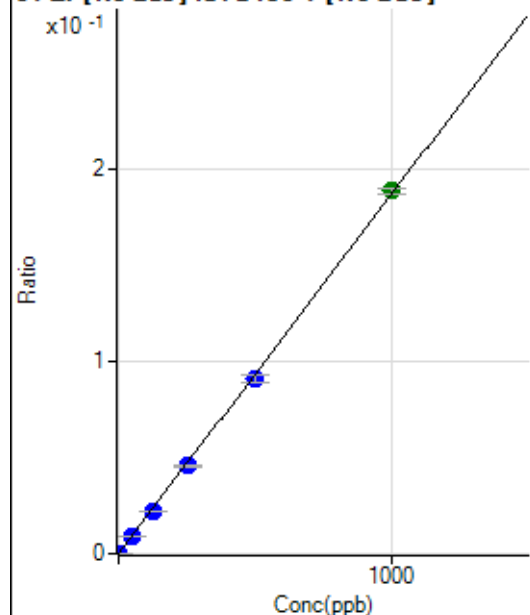
$$R = 0.9999$$

$$DL = 0.009601$$

$$BEC = 0.06635$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	69.44	0.0000	P	25.3
2	☐	1.000	0.816	1847.39	0.0002	P	3.2
3	☐	50.000	48.599	106754.85	0.0091	P	2.1
4	☐	125.000	117.417	264654.14	0.0220	P	4.1
5	☐	250.000	244.981	539271.08	0.0458	P	2.4
6	☐	500.000	486.350	1043916.67	0.0909	P	4.9
7	☐	1000.000	1009.098	2218721.62	0.1886	A	1.4
8	☐			1016.73	0.0001	P	8.3

$$y = 1.8690\text{E-}004 * x + 6.1083\text{E-}006$$

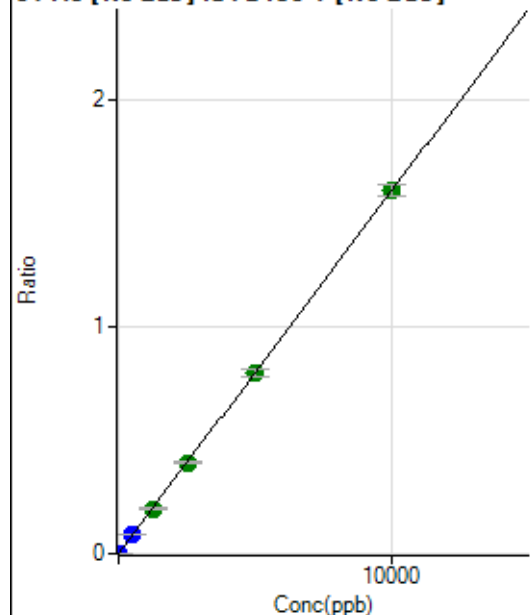
$$R = 0.9998$$

$$DL = 0.02479$$

$$BEC = 0.03268$$

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	141.67	0.0000	P	17.8
2	☐	5.000	5.920	11174.27	0.0010	P	2.5
3	☐	500.000	507.223	951773.50	0.0811	P	0.5
4	☐	1250.000	1237.189	2383779.44	0.1977	A	2.9
5	☐	2500.000	2507.866	4719353.71	0.4007	A	0.9
6	☐	5000.000	4993.150	9163670.08	0.7978	A	4.1
7	☐	10000.000	10002.698	18794322.30	1.5982	A	3.1
8	☐			6768.52	0.0006	P	11.6

$$y = 1.5978\text{E-}004 * x + 1.2538\text{E-}005$$

$$R = 1.0000$$

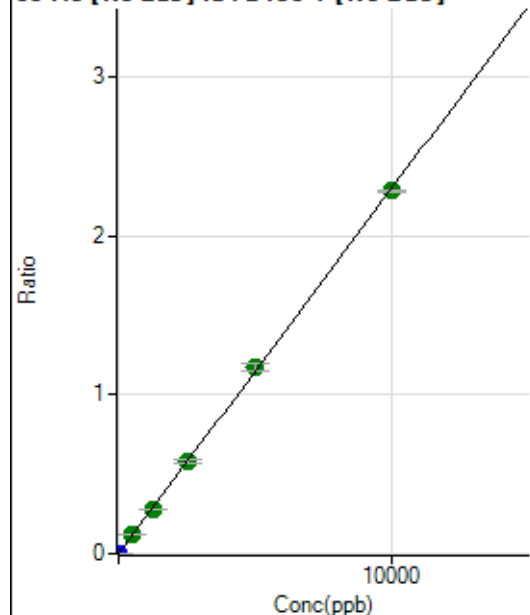
$$DL = 0.04184$$

$$BEC = 0.07847$$

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	90.0
2	☐	5.000	5.044	13570.88	0.0012	P	3.1
3	☐	500.000	517.442	1397256.99	0.1190	A	1.8
4	☐	1250.000	1209.995	3356198.62	0.2783	A	2.4
5	☐	2500.000	2532.826	6863170.99	0.5825	A	2.7
6	☐	5000.000	5112.674	13504891.01	1.1758	A	4.0
7	☐	10000.000	9939.585	26891127.86	2.2859	A	0.6
8	☐			7916.39	0.0007	P	18.3

$$y = 2.2998\text{E-}004 * x + 3.6236\text{E-}006$$

$$R = 0.9999$$

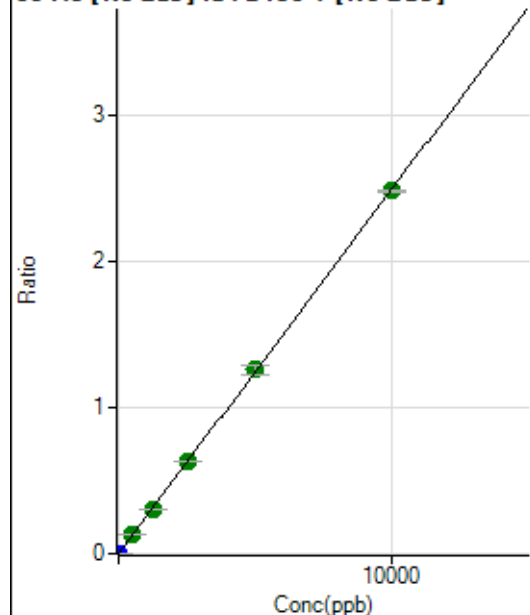
$$DL = 0.04256$$

$$BEC = 0.01576$$

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	163.89	0.0000	P	26.8
2	☐	5.000	4.994	14683.15	0.0013	P	5.7
3	☐	500.000	518.397	1519324.97	0.1294	A	1.9
4	☐	1250.000	1205.411	3627257.29	0.3008	A	2.4
5	☐	2500.000	2546.596	7485276.38	0.6354	A	0.9
6	☐	5000.000	5052.504	14478410.74	1.2607	A	5.3
7	☐	10000.000	9966.752	29254263.85	2.4869	A	0.2
8	☐			19508.76	0.0017	P	7.9

$$y = 2.4952\text{E-}004 * x + 1.4525\text{E-}005$$

$$R = 1.0000$$

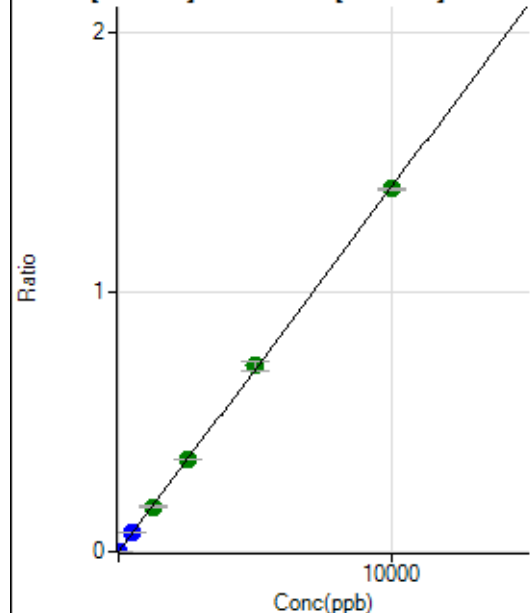
$$DL = 0.04672$$

$$BEC = 0.05821$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22.22	0.0000	P	56.8
2	☐	5.000	4.978	8174.85	0.0007	P	5.6
3	☐	500.000	513.040	847271.23	0.0721	P	0.4
4	☐	1250.000	1225.639	2078134.75	0.1724	A	3.9
5	☐	2500.000	2529.506	4189226.48	0.3557	A	1.1
6	☐	5000.000	5093.663	8226286.47	0.7163	A	4.4
7	☐	10000.000	9948.185	16458532.14	1.3990	A	0.7
8	☐			4820.44	0.0004	P	11.4

$$y = 1.4063\text{E-}004 * x + 1.9499\text{E-}006$$

$$R = 0.9999$$

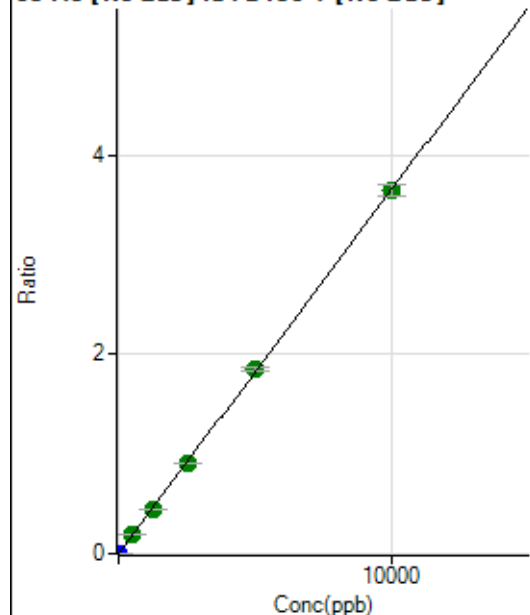
$$DL = 0.02364$$

$$BEC = 0.01387$$

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	75.00	0.0000	P	28.9
2	☐	5.000	4.941	21119.40	0.0018	P	6.0
3	☐	500.000	521.901	2241898.23	0.1909	A	1.7
4	☐	1250.000	1209.851	5335244.78	0.4425	A	3.5
5	☐	2500.000	2492.768	10737512.48	0.9117	A	0.5
6	☐	5000.000	5075.966	21326429.64	1.8564	A	2.9
7	☐	10000.000	9967.749	42899190.19	3.6455	A	3.3
8	☐			12144.72	0.0011	P	14.7

$$y = 3.6573\text{E-}004 * x + 6.6184\text{E-}006$$

$$R = 0.9999$$

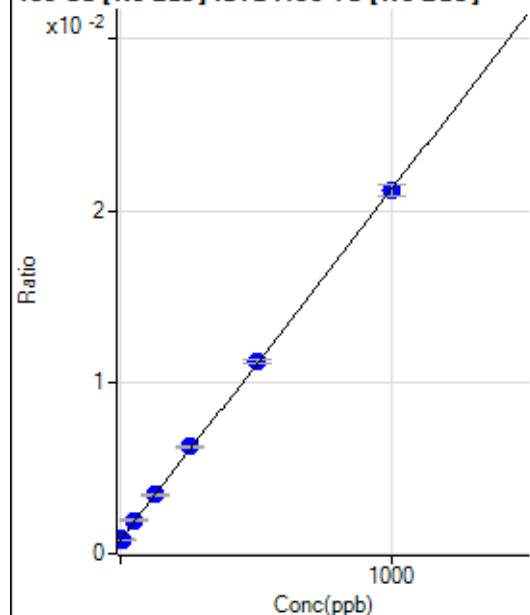
$$DL = 0.01571$$

$$BEC = 0.0181$$

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	6095.97	0.0009	P	9.1
2	☐	1.000	-2.335	5982.05	0.0008	P	1.6
3	☐	50.000	52.809	14708.27	0.0019	P	2.8
4	☐	125.000	126.012	26918.56	0.0034	P	3.0
5	☐	250.000	263.428	47438.35	0.0062	P	1.8
6	☐	500.000	506.768	82944.60	0.0112	P	2.9
7	☐	1000.000	992.995	161606.40	0.0211	P	3.2
8	☐			5843.07	0.0008	P	7.1

$$y = 2.0421\text{E-}005 * x + 8.6653\text{E-}004$$

$$R = 0.9998$$

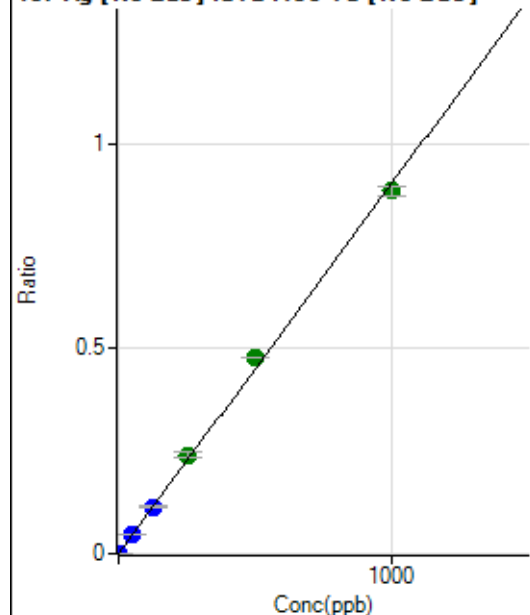
$$DL = 11.64$$

$$BEC = 42.43$$

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	141.67	0.0000	P	31.6
2	☐	1.000	1.126	7563.38	0.0010	P	7.9
3	☐	50.000	53.110	362671.04	0.0480	P	0.3
4	☐	125.000	125.567	886810.73	0.1133	P	4.0
5	☐	250.000	266.969	1829578.23	0.2410	A	5.0
6	☐	500.000	529.288	3533744.83	0.4777	A	0.1
7	☐	1000.000	980.887	6766308.35	0.8853	A	2.8
8	☐			2264.14	0.0003	P	6.6

$$y = 9.0250\text{E-}004 * x + 2.0196\text{E-}005$$

$$R = 0.9992$$

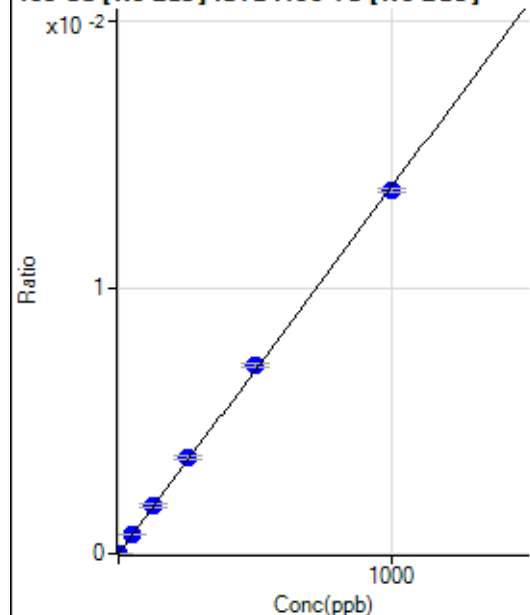
$$DL = 0.02119$$

$$BEC = 0.02238$$

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	31.94	0.0000	P	39.9
2	☐	1.000	1.008	134.73	0.0000	P	11.0
3	☐	50.000	53.687	5624.83	0.0007	P	1.9
4	☐	125.000	132.177	14268.71	0.0018	P	6.4
5	☐	250.000	262.537	27484.51	0.0036	P	3.2
6	☐	500.000	513.433	52329.67	0.0071	P	1.1
7	☐	1000.000	989.068	104124.54	0.0136	P	1.0
8	☐			130.56	0.0000	P	15.1

$$y = 1.3769\text{E-}005 * x + 4.5460\text{E-}006$$

$$R = 0.9998$$

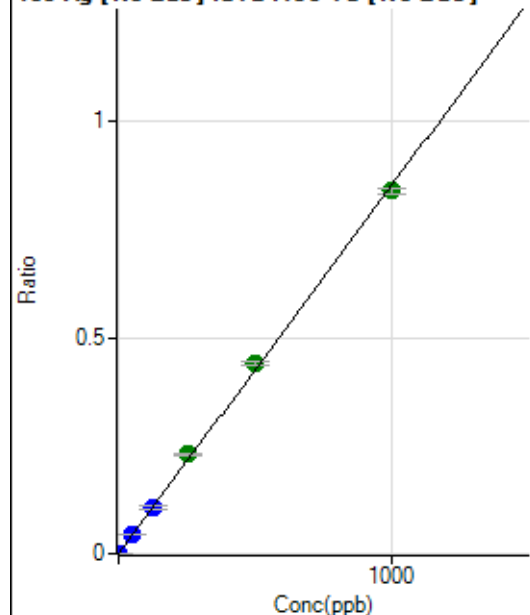
$$DL = 0.3954$$

$$BEC = 0.3302$$

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	86.11	0.0000	P	39.9
2	☐	1.000	1.083	6829.67	0.0009	P	2.2
3	☐	50.000	53.544	345242.90	0.0456	P	1.1
4	☐	125.000	125.511	836874.17	0.1070	P	4.8
5	☐	250.000	270.021	1747782.27	0.2302	A	3.0
6	☐	500.000	517.680	3263503.54	0.4412	A	2.1
7	☐	1000.000	985.913	6423312.56	0.8403	A	1.8
8	☐			2019.65	0.0003	P	7.3

$$y = 8.5232\text{E-}004 * x + 1.2225\text{E-}005$$

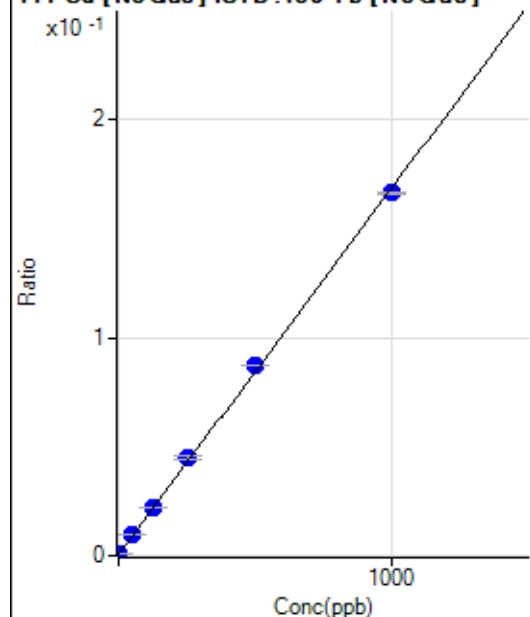
$$R = 0.9995$$

$$DL = 0.01719$$

$$BEC = 0.01434$$

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	4269.82	0.0006	P	9.2
2	☐	1.000	0.831	5452.92	0.0007	P	1.5
3	☐	50.000	53.936	73134.97	0.0097	P	0.7
4	☐	125.000	127.948	172991.52	0.0221	P	3.4
5	☐	250.000	264.107	341659.68	0.0450	P	2.6
6	☐	500.000	516.772	646852.65	0.0874	P	0.1
7	☐	1000.000	987.522	1273040.04	0.1665	P	0.3
8	☐			4282.11	0.0006	P	7.7

$$y = 1.6804\text{E-}004 * x + 6.0693\text{E-}004$$

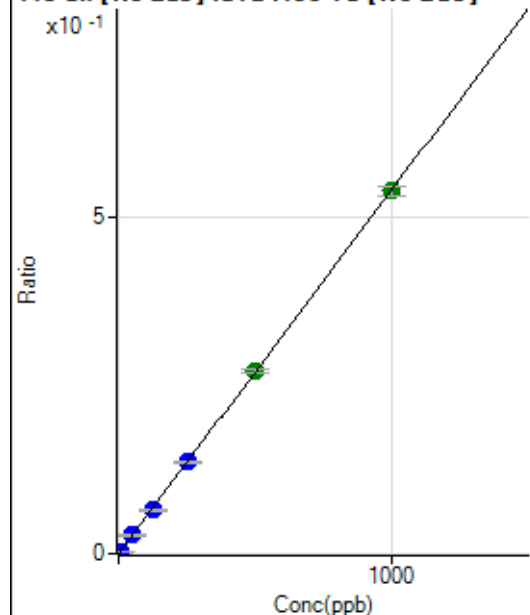
$$R = 0.9997$$

$$DL = 0.996$$

$$BEC = 3.612$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	977.84	0.0001	P	2.0
2	☐	5.000	4.964	20557.66	0.0028	P	5.5
3	☐	50.000	50.215	205983.63	0.0272	P	1.7
4	☐	125.000	120.176	508412.54	0.0650	P	4.0
5	☐	250.000	252.473	1035749.47	0.1364	P	2.0
6	☐	500.000	503.740	2011373.48	0.2720	A	2.5
7	☐	1000.000	998.104	4117409.55	0.5387	A	2.7
8	☐			4750.93	0.0007	P	0.6

$$y = 5.3959\text{E-}004 * x + 1.3900\text{E-}004$$

$$R = 1.0000$$

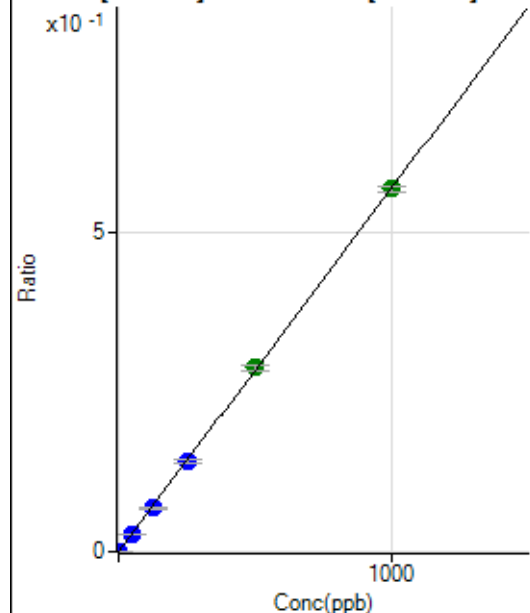
$$DL = 0.01513$$

$$BEC = 0.2576$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.55	0.0000	P	16.0
2	☐	2.000	2.017	8430.58	0.0012	P	0.6
3	☐	50.000	49.589	213871.97	0.0283	P	1.3
4	☐	125.000	119.285	532220.16	0.0680	P	3.4
5	☐	250.000	248.511	1076024.36	0.1417	P	3.9
6	☐	500.000	505.476	2131628.96	0.2882	A	2.6
7	☐	1000.000	998.369	4351084.34	0.5693	A	1.4
8	☐			3475.56	0.0005	P	6.2

$$y = 5.7019\text{E-}004 * x + 4.3450\text{E-}006$$

$$R = 1.0000$$

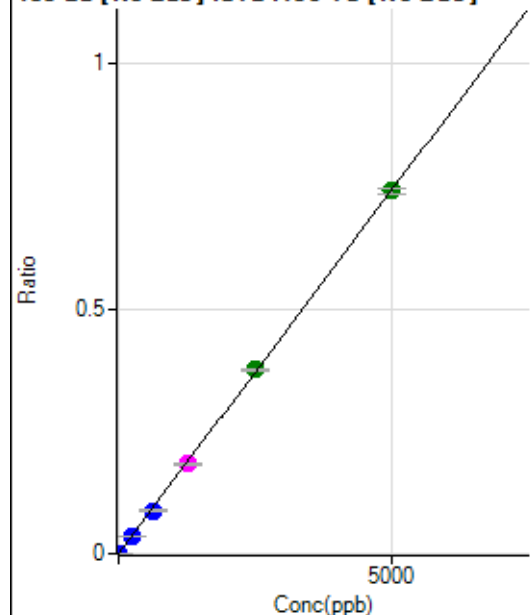
$$DL = 0.003657$$

$$BEC = 0.00762$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.67	0.0000	P	21.6
2	☐	10.000	9.729	10587.73	0.0015	P	1.8
3	☐	250.000	246.766	277069.85	0.0366	P	3.1
4	☐	625.000	583.783	677984.98	0.0867	P	4.0
5	☐	1250.000	1234.465	1391607.42	0.1832	M	3.0
6	☐	2500.000	2530.866	2778891.82	0.3757	A	0.4
7	☐	5000.000	4993.765	5665580.77	0.7412	A	1.6
8	☐			2572.54	0.0004	P	4.4

$$y = 1.4843\text{E-}004 * x + 5.9368\text{E-}006$$

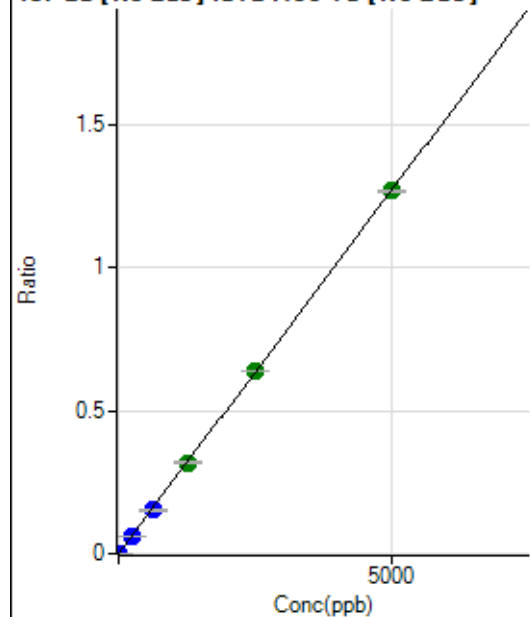
$$R = 0.9999$$

$$DL = 0.02588$$

$$BEC = 0.04$$

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	41.67	0.0000	P	1.6
2	☐	10.000	10.062	18685.72	0.0026	P	1.0
3	☐	250.000	247.548	474918.51	0.0628	P	1.3
4	☐	625.000	595.856	1182612.57	0.1511	P	3.8
5	☐	1250.000	1256.606	2420982.32	0.3187	A	3.0
6	☐	2500.000	2514.545	4718110.44	0.6378	A	0.2
7	☐	5000.000	4994.842	9684040.06	1.2669	A	0.7
8	☐			4512.01	0.0006	P	1.9

$$y = 2.5365E-004 * x + 5.9248E-006$$

$$R = 1.0000$$

$$DL = 0.001119$$

$$BEC = 0.02336$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.33		P	50.0
2	☐			8.89		P	43.3
3	☐			31.11		P	44.6
4	☐			73.34		P	9.1
5	☐			137.78		P	17.0
6	☐			313.34		P	19.5
7	☐			584.47		P	9.2
8	☐			62.22		P	16.4

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			2.22		P	86.6
3	☐			2.22		P	86.6
4	☐			7.78		P	65.5
5	☐			6.67		P	0.0
6	☐			21.11		P	24.1
7	☐			48.89		P	20.8
8	☐			23.33		P	14.3

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	0.0
2	☐			11.11		P	114.
3	☐			19.45		P	107.
4	☐			61.12		P	34.3
5	☐			55.56		P	22.9
6	☐			150.01		P	20.0
7	☐			288.90		P	6.7
8	☐			638.93		P	20.8

156 Dy [He] No available calibration points

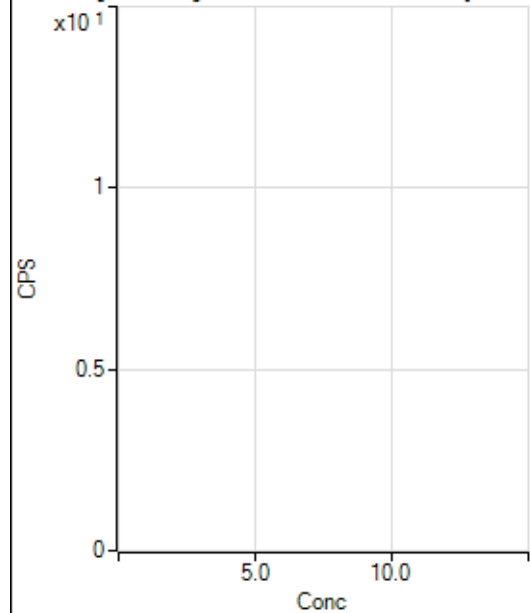
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			4.44		P	43.4
3	☐			7.78		P	65.5
4	☐			13.33		P	66.2
5	☐			24.45		P	43.8
6	☐			65.56		P	7.8
7	☐			108.89		P	14.1
8	☐			248.90		P	3.4

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			141.67		P	27.0
2	☐			133.34		P	12.5
3	☐			194.45		P	17.8
4	☐			191.67		P	13.0
5	☐			202.78		P	16.6
6	☐			205.56		P	18.3
7	☐			291.67		P	4.9
8	☐			436.13		P	17.8

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			125.56		P	11.1
2	☐			115.56		P	18.3
3	☐			91.11		P	9.2
4	☐			123.34		P	9.4
5	☐			120.00		P	11.1
6	☐			124.45		P	12.4
7	☐			157.78		P	14.1
8	☐			320.01		P	16.0

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	25.0
2	☐			36.11		P	35.3
3	☐			44.45		P	28.7
4	☐			38.89		P	44.6
5	☐			41.67		P	20.0
6	☐			41.67		P	34.7
7	☐			80.56		P	6.0
8	☐			33.33		P	25.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	21.7
2	☐			21.11		P	55.4
3	☐			20.00		P	44.1
4	☐			20.00		P	44.1
5	☐			20.00		P	28.9
6	☐			28.89		P	24.0
7	☐			34.45		P	39.1
8	☐			17.78		P	28.6

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	45.8
2	☐			44.44		P	39.0
3	☐			27.78		P	17.3
4	☐			36.11		P	13.3
5	☐			30.55		P	68.6
6	☐			50.00		P	16.7
7	☐			75.00		P	0.0
8	☐			80.55		P	47.8

172 Yb [He] No available calibration points

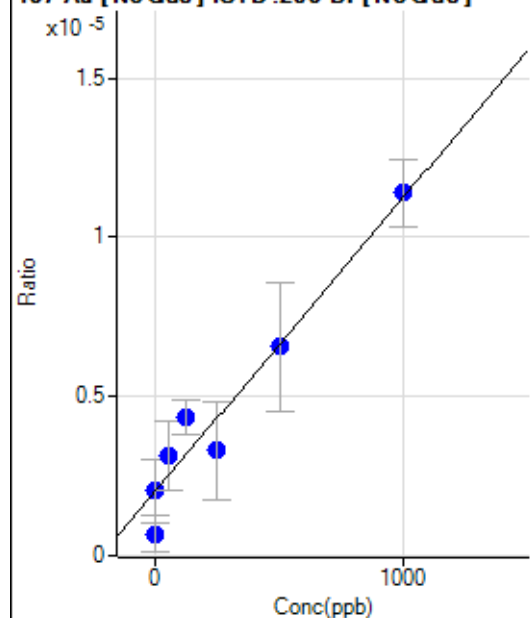
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.97		P	49.5
2	☐			18.52		P	62.4
3	☐			18.52		P	45.8
4	☐			18.52		P	45.8
5	☐			31.48		P	53.9
6	☐			40.74		P	39.4
7	☐			48.15		P	24.0
8	☐			77.78		P	7.1

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1805.73		P	12.4
2	☐			1791.84		P	9.7
3	☐			2378.07		P	15.6
4	☐			2925.41		P	5.7
5	☐			4309.18		P	2.4
6	☐			6390.62		P	1.4
7	☐			10863.08		P	3.6
8	☐			1875.19		P	3.5

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7869.14		P	4.2
2	☐			7626.42		P	1.4
3	☐			7761.72		P	4.5
4	☐			7922.88		P	4.2
5	☐			8534.37		P	3.6
6	☐			10100.37		P	3.0
7	☐			12680.39		P	4.2
8	☐			7354.03		P	1.7

197 Au [No Gas] ISTD :209 Bi [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8.33	0.0000	P	98.9
2	☐	1.000	-145.355	2.78	0.0000	P	173.
3	☐	50.000	122.718	13.89	0.0000	P	68.5
4	☐	125.000	250.140	19.45	0.0000	P	25.6
5	☐	250.000	139.328	13.89	0.0000	P	92.7
6	☐	500.000	490.358	27.78	0.0000	P	61.4
7	☐	1000.000	1013.357	47.22	0.0000	P	18.3
8	☐			11.11	0.0000	P	44.8

$$y = 9.2470\text{E-}009 * x + 2.0234\text{E-}006$$

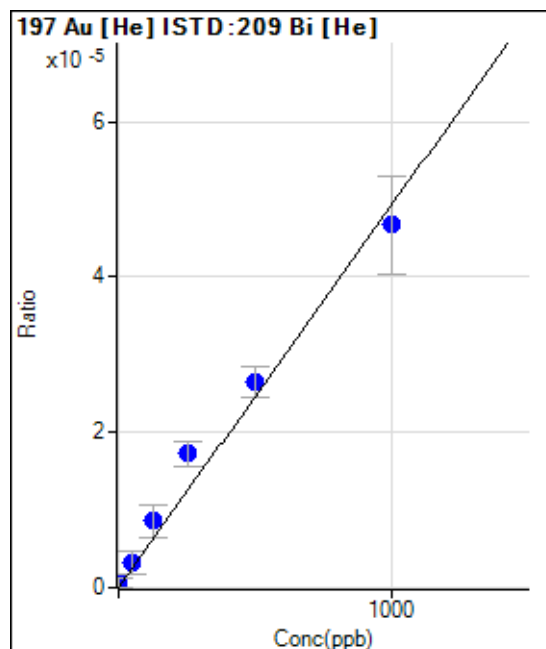
$$R = 0.9689$$

$$DL = 649.3$$

$$BEC = 218.8$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	1.000	13.960	1.85	0.0000	P	173.
3	☐	50.000	65.250	9.26	0.0000	P	91.6
4	☐	125.000	173.581	24.07	0.0000	P	47.3
5	☐	250.000	350.130	48.15	0.0000	P	17.8
6	☐	500.000	538.613	74.07	0.0000	P	15.4
7	☐	1000.000	948.813	124.08	0.0000	P	26.8
8	☐			9.26	0.0000	P	92.1

$$y = 4.9200\text{E-}008 * x + 0.0000\text{E+}000$$

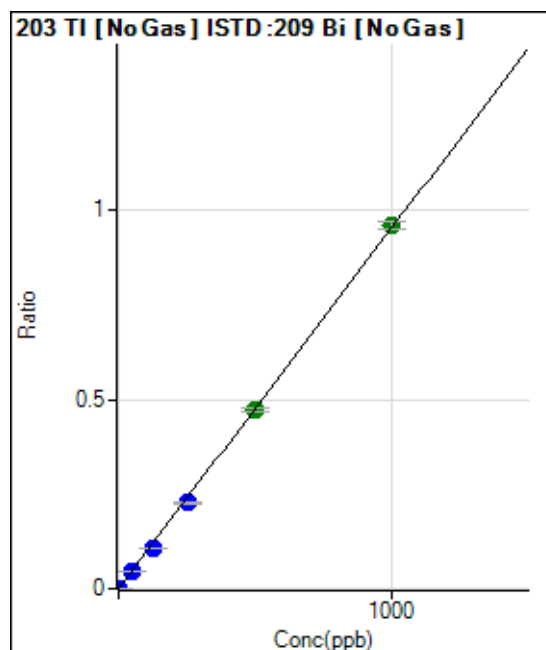
$$R = 0.9927$$

$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	230.57	0.0001	P	23.6
2	☐	1.000	0.944	4034.08	0.0010	P	4.3
3	☐	50.000	46.356	193516.03	0.0442	P	0.7
4	☐	125.000	111.490	476425.37	0.1061	P	2.3
5	☐	250.000	237.529	954609.84	0.2260	P	2.5
6	☐	500.000	496.431	1983320.62	0.4723	A	1.9
7	☐	1000.000	1006.773	3959776.04	0.9577	A	2.0
8	☐			1583.48	0.0004	P	20.6

$$y = 9.5125\text{E-}004 * x + 5.6410\text{E-}005$$

$$R = 0.9999$$

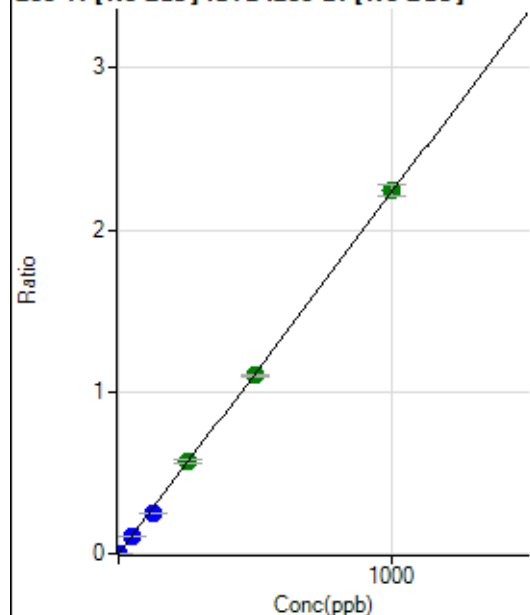
$$DL = 0.04199$$

$$BEC = 0.0593$$

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	655.59	0.0002	P	8.1
2	☐	1.000	0.933	9484.27	0.0022	P	2.8
3	☐	50.000	47.201	462307.39	0.1055	P	1.0
4	☐	125.000	112.437	1127347.29	0.2511	P	1.6
5	☐	250.000	254.526	2398687.27	0.5681	A	4.8
6	☐	500.000	492.414	4615178.06	1.0990	A	1.7
7	☐	1000.000	1004.372	9263916.61	2.2414	A	3.2
8	☐			3558.94	0.0010	P	4.5

$$y = 0.0022 * x + 1.6012E-004$$

$$R = 0.9999$$

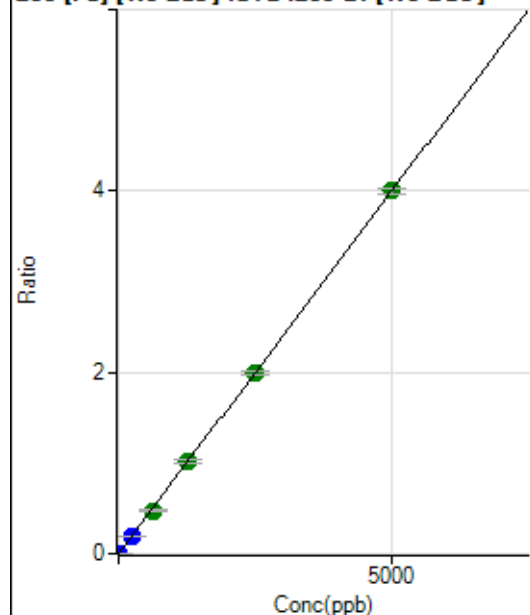
$$DL = 0.01742$$

$$BEC = 0.07176$$

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	366.68	0.0001	P	14.8
2	☐	1.000	0.915	3470.91	0.0008	P	2.5
3	☐	250.000	231.179	809713.27	0.1848	P	1.5
4	☐	625.000	591.599	2122282.64	0.4727	A	2.7
5	☐	1250.000	1270.866	4287977.18	1.0153	A	3.7
6	☐	2500.000	2485.663	8341186.06	1.9858	A	2.1
7	☐	5000.000	5007.068	16536979.42	4.0000	A	1.5
8	☐			3424.59	0.0010	P	10.4

$$y = 7.9886E-004 * x + 8.9511E-005$$

$$R = 1.0000$$

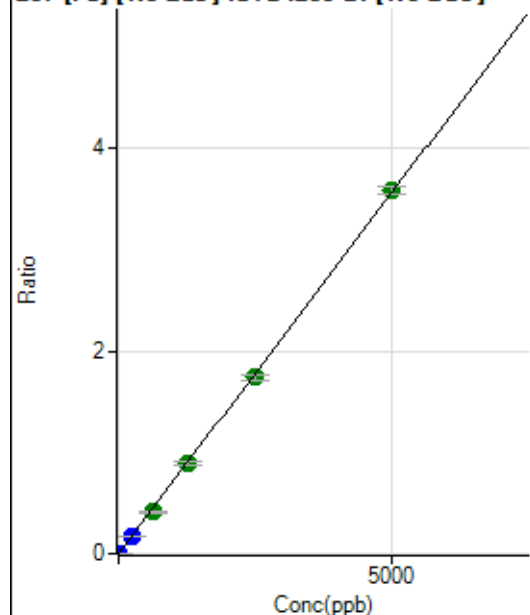
$$DL = 0.04982$$

$$BEC = 0.112$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	333.34	0.0001	P	10.8
2	☐	1.000	0.881	2993.00	0.0007	P	6.5
3	☐	250.000	228.910	713847.65	0.1628	P	1.1
4	☐	625.000	576.544	1841185.96	0.4100	A	1.9
5	☐	1250.000	1266.167	3801841.72	0.9004	A	4.2
6	☐	2500.000	2444.424	7299811.91	1.7381	A	2.6
7	☐	5000.000	5030.858	14787014.68	3.5771	A	2.1
8	☐			3107.85	0.0009	P	10.7

$$y = 7.1102\text{E-}004 * x + 8.1376\text{E-}005$$

$$R = 0.9999$$

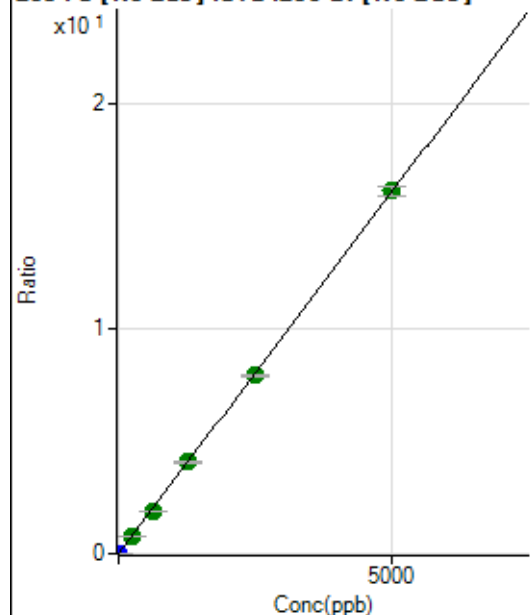
$$DL = 0.03707$$

$$BEC = 0.1144$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1520.43	0.0004	P	11.9
2	☐	1.000	0.890	13628.98	0.0032	P	3.8
3	☐	250.000	238.187	3348809.03	0.7640	A	0.9
4	☐	625.000	589.966	8493862.17	1.8917	A	2.2
5	☐	1250.000	1266.617	17150038.20	4.0610	A	3.3
6	☐	2500.000	2463.146	33164997.33	7.8969	A	1.8
7	☐	5000.000	5019.243	66510853.68	16.0913	A	2.9
8	☐			14005.11	0.0039	P	8.4

$$y = 0.0032 * x + 3.7108\text{E-}004$$

$$R = 0.9999$$

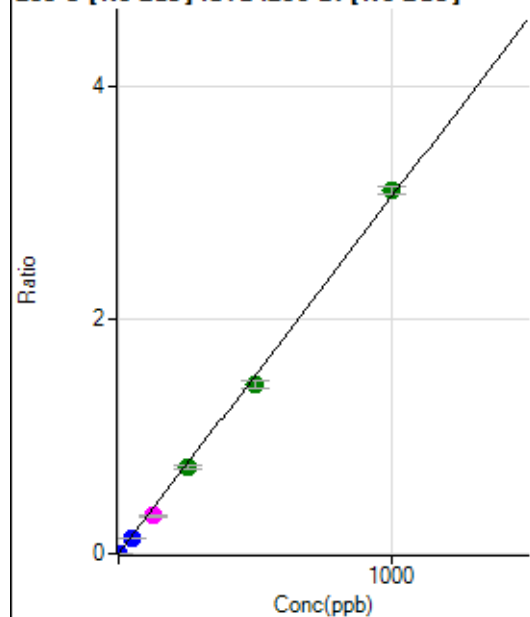
$$DL = 0.04127$$

$$BEC = 0.1158$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.89	0.0000	P	33.6
2	☐	1.000	0.879	11344.33	0.0027	P	6.4
3	☐	50.000	43.997	588014.16	0.1342	P	1.3
4	☐	125.000	107.060	1465757.07	0.3265	M	3.8
5	☐	250.000	243.142	3132326.40	0.7415	A	3.7
6	☐	500.000	474.471	6074919.36	1.4470	A	3.8
7	☐	1000.000	1017.022	12821485.27	3.1016	A	1.9
8	☐			1177.88	0.0003	P	22.2

$$y = 0.0030 * x + 3.3784E-006$$

$$R = 0.9994$$

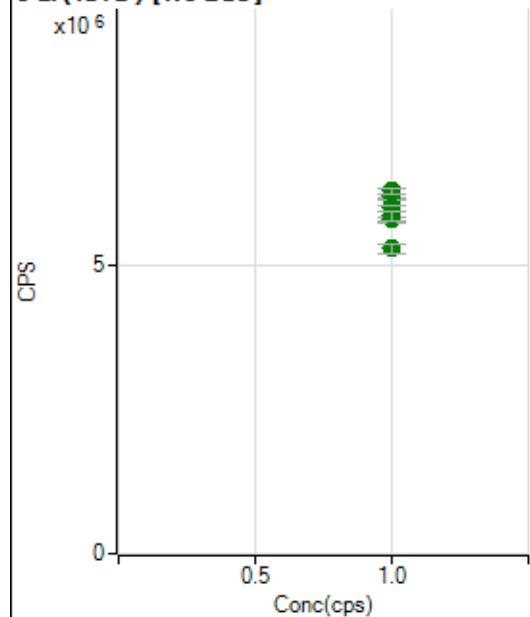
$$DL = 0.001117$$

$$BEC = 0.001108$$

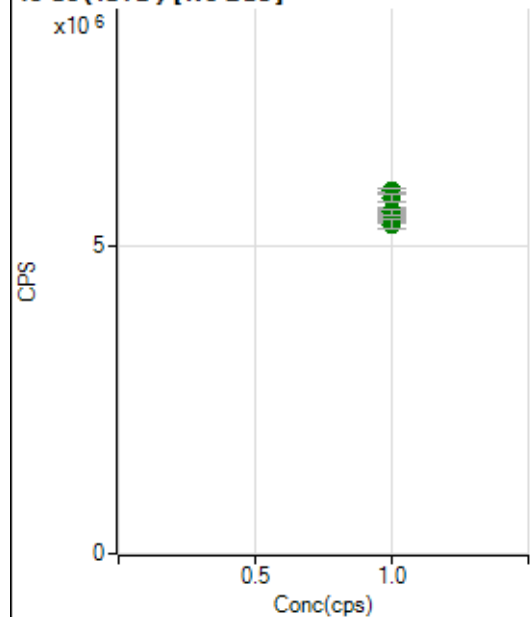
Weight: <None>

Min Conc: 0

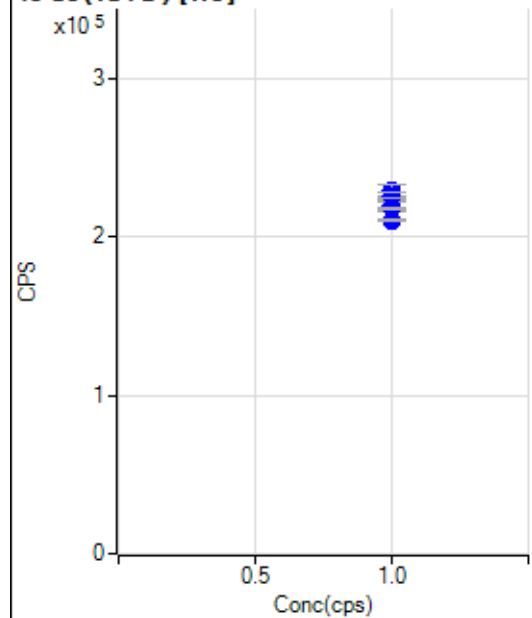
6 Li (ISTD) [No Gas]



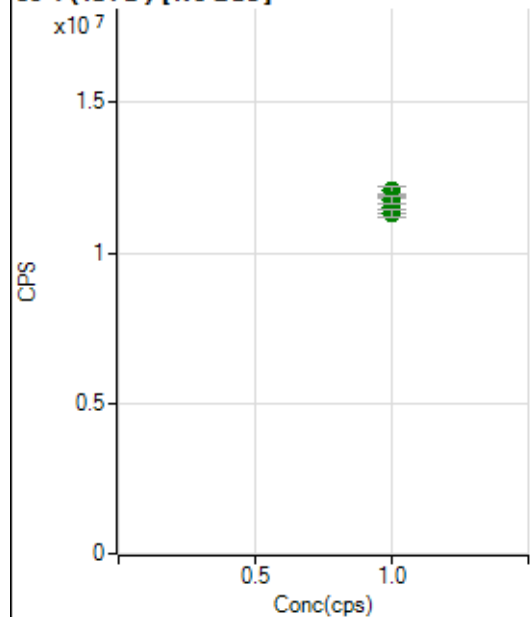
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5890147.80		A	5.3
2	☐	1.000		6055372.00		A	3.9
3	☐	1.000		6203923.53		A	1.7
4	☐	1.000		6303211.69		A	1.9
5	☐	1.000		6007395.54		A	1.8
6	☐	1.000		5808088.63		A	1.8
7	☐	1.000		5867576.67		A	3.1
8	☐	1.000		5302379.14		A	3.3

45 Sc (ISTD) [No Gas]

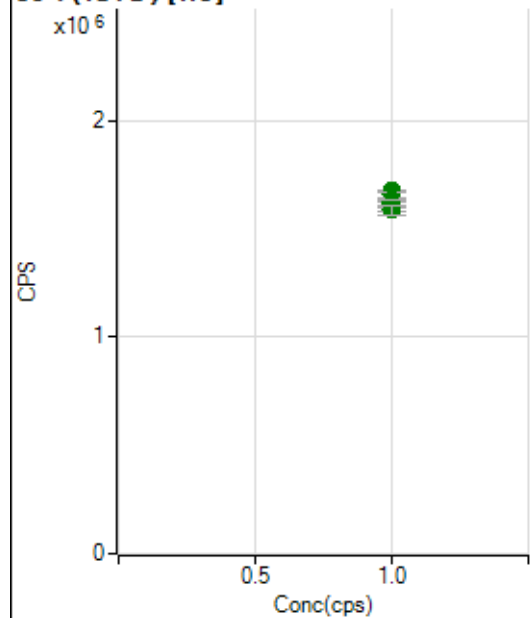
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5417983.25		A	1.0
2	☐	1.000		5540038.32		A	2.8
3	☐	1.000		5884328.59		A	1.0
4	☐	1.000		5760013.67		A	2.1
5	☐	1.000		5533886.58		A	0.9
6	☐	1.000		5426048.43		A	2.7
7	☐	1.000		5539986.93		A	1.6
8	☐	1.000		5342977.00		A	2.7

45 Sc (ISTD) [He]

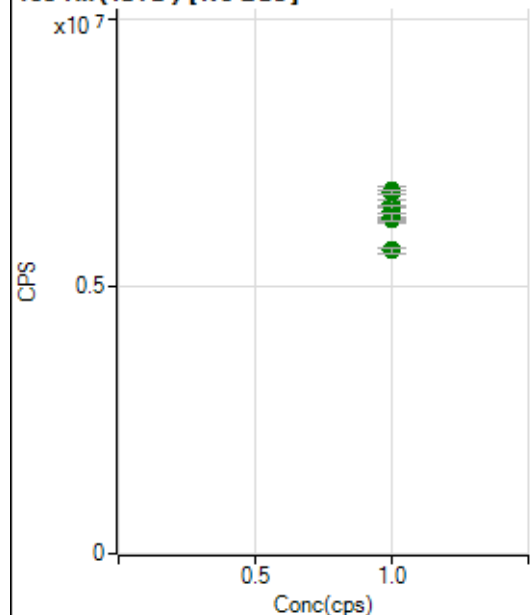
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		220335.51		P	1.8
2	☐	1.000		229075.33		P	3.2
3	☐	1.000		225858.94		P	2.0
4	☐	1.000		219933.64		P	2.0
5	☐	1.000		221635.63		P	2.9
6	☐	1.000		218919.26		P	3.0
7	☐	1.000		218240.13		P	0.5
8	☐	1.000		210213.99		P	0.6

89 Y (ISTD) [No Gas]

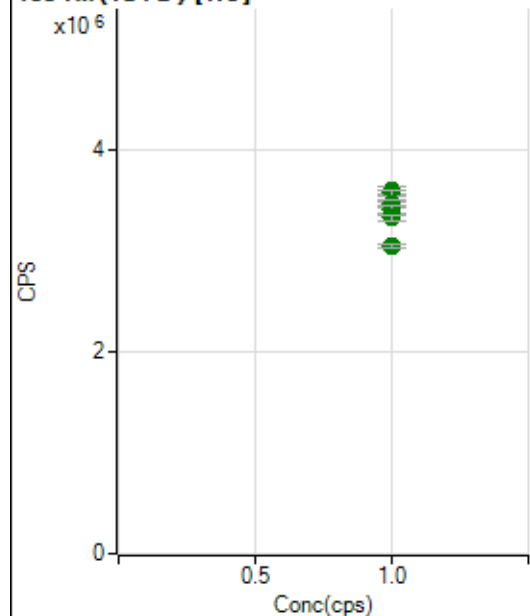
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11327164.00		A	2.6
2	☐	1.000		11660610.80		A	3.3
3	☐	1.000		11743015.80		A	1.8
4	☐	1.000		12063420.24		A	2.2
5	☐	1.000		11778025.93		A	2.6
6	☐	1.000		11493646.35		A	2.8
7	☐	1.000		11763629.55		A	1.7
8	☐	1.000		11333107.19		A	2.0

89 Y (ISTD) [He]

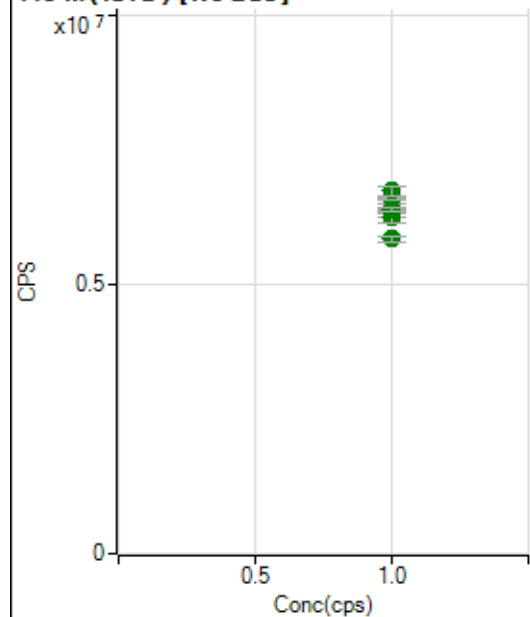
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1592295.17		A	1.0
2	☐	1.000		1675791.47		A	0.5
3	☐	1.000		1658805.96		A	1.6
4	☐	1.000		1634424.58		A	1.5
5	☐	1.000		1613714.33		A	4.1
6	☐	1.000		1628020.77		A	2.0
7	☐	1.000		1616808.03		A	2.2
8	☐	1.000		1587108.90		A	2.6

103 Rh (ISTD) [No Gas]

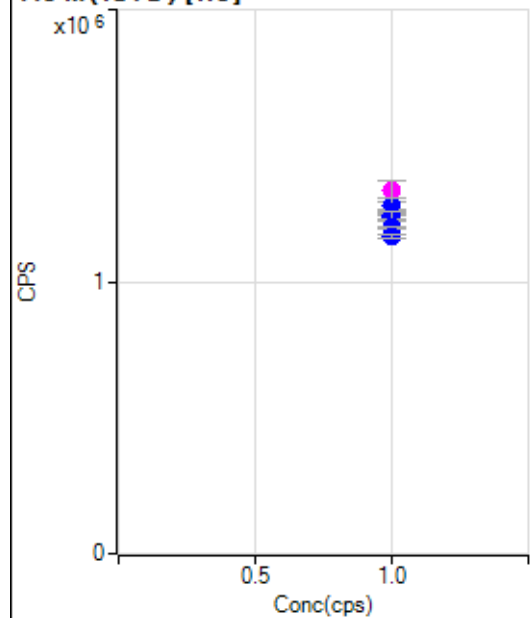
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6412685.52		A	4.0
2	☐	1.000		6556999.76		A	2.0
3	☐	1.000		6798445.73		A	2.2
4	☐	1.000		6763141.73		A	1.1
5	☐	1.000		6415258.61		A	3.1
6	☐	1.000		6252003.05		A	1.6
7	☐	1.000		6307977.14		A	2.2
8	☐	1.000		5676760.15		A	2.2

103 Rh (ISTD) [He]

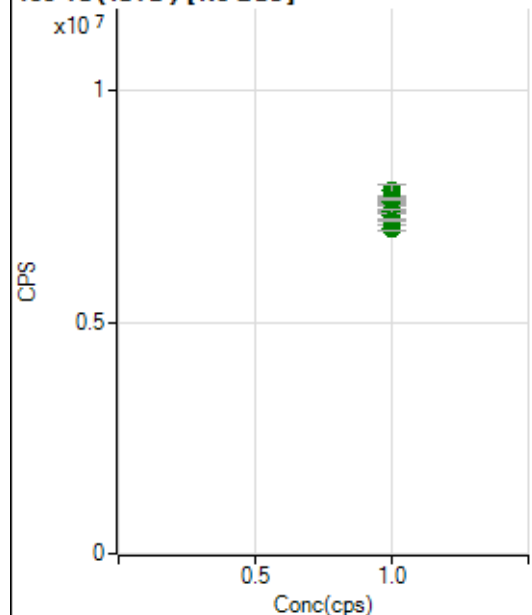
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3455987.20		A	1.2
2	☐	1.000		3590292.07		A	2.1
3	☐	1.000		3570432.20		A	1.3
4	☐	1.000		3466448.04		A	2.2
5	☐	1.000		3436337.38		A	3.9
6	☐	1.000		3397697.03		A	2.7
7	☐	1.000		3322779.18		A	1.8
8	☐	1.000		3051363.18		A	1.4

115 In (ISTD) [No Gas]

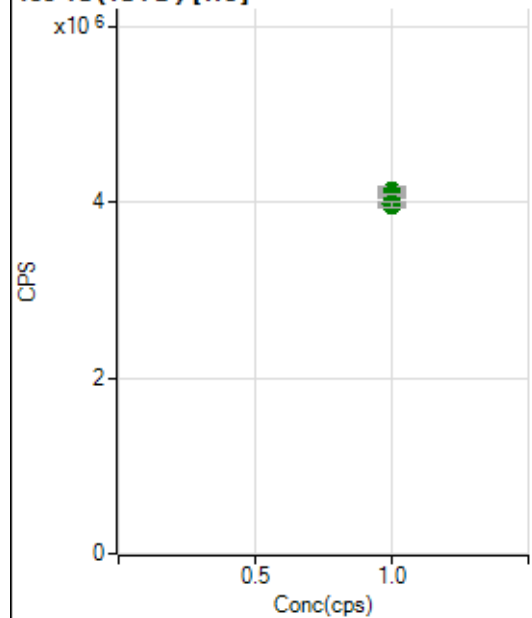
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6374053.27		A	4.3
2	☐	1.000		6401193.66		A	3.0
3	☐	1.000		6602382.37		A	0.5
4	☐	1.000		6738041.68		A	2.7
5	☐	1.000		6377883.40		A	1.0
6	☐	1.000		6267113.91		A	3.6
7	☐	1.000		6387477.45		A	0.8
8	☐	1.000		5848549.57		A	1.8

115 In (ISTD) [He]

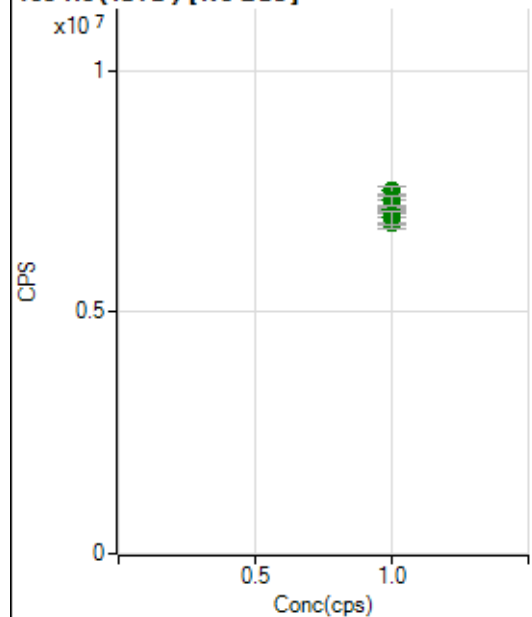
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1251395.49		P	1.3
2	☐	1.000		1335209.34		M	6.0
3	☐	1.000		1283962.19		P	3.5
4	☐	1.000		1259502.65		P	0.9
5	☐	1.000		1241541.19		P	2.8
6	☐	1.000		1246460.09		P	2.3
7	☐	1.000		1200809.19		P	1.0
8	☐	1.000		1168655.30		P	1.5

159 Tb (ISTD) [No Gas]

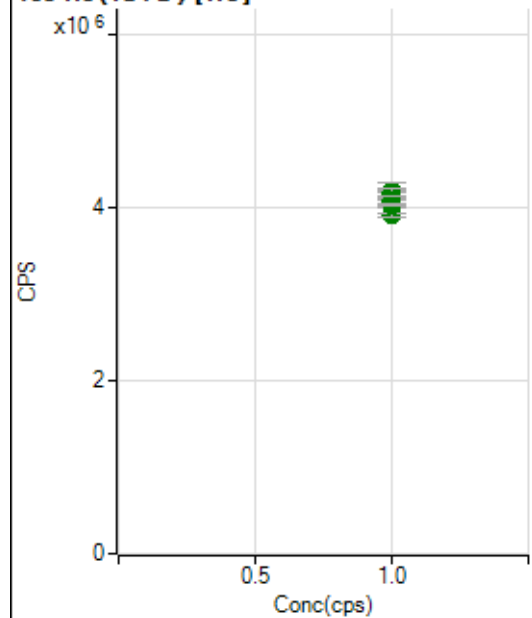
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7034363.58		A	1.6
2	☐	1.000		7303612.53		A	2.5
3	☐	1.000		7563124.40		A	0.5
4	☐	1.000		7829937.45		A	3.3
5	☐	1.000		7596572.74		A	1.7
6	☐	1.000		7397333.15		A	1.2
7	☐	1.000		7643656.83		A	0.4
8	☐	1.000		7197144.76		A	1.0

159 Tb (ISTD) [He]

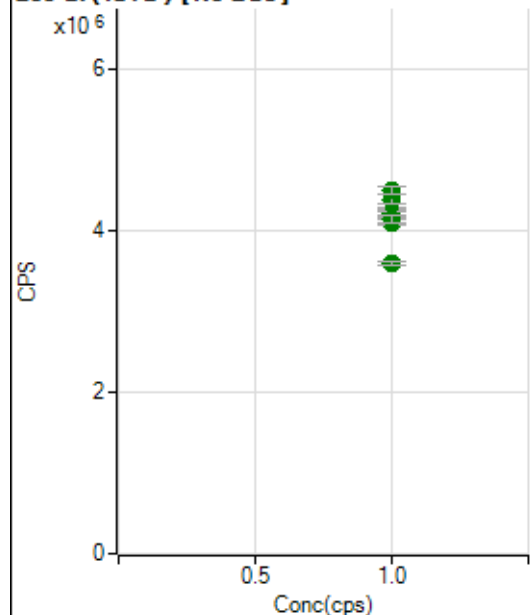
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3966392.06		A	0.8
2	☐	1.000		4048218.62		A	4.7
3	☐	1.000		4099059.10		A	3.0
4	☐	1.000		4125781.08		A	2.9
5	☐	1.000		4072379.73		A	1.6
6	☐	1.000		4089253.48		A	1.7
7	☐	1.000		4078638.93		A	0.9
8	☐	1.000		3970479.73		A	1.2

165 Ho (ISTD) [No Gas]

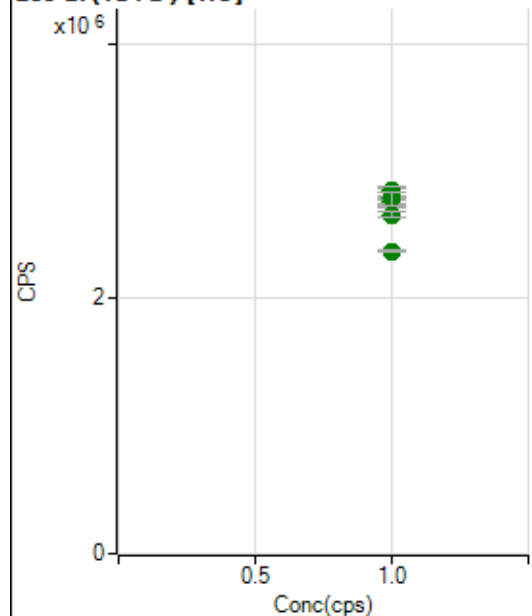
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6825152.54		A	3.5
2	☐	1.000		6968950.59		A	3.9
3	☐	1.000		7190188.61		A	3.3
4	☐	1.000		7507961.19		A	2.0
5	☐	1.000		7194071.43		A	0.4
6	☐	1.000		7104621.25		A	2.1
7	☐	1.000		7306185.67		A	2.9
8	☐	1.000		6951013.35		A	4.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3916947.72		A	1.2
2	☐	1.000		4055189.28		A	2.6
3	☐	1.000		4191435.84		A	4.4
4	☐	1.000		4163623.76		A	1.7
5	☐	1.000		4129906.88		A	2.3
6	☐	1.000		4175587.16		A	2.0
7	☐	1.000		4098061.81		A	2.1
8	☐	1.000		4027377.16		A	0.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4097990.08		A	1.7
2	☐	1.000		4230404.90		A	3.0
3	☐	1.000		4383387.12		A	2.7
4	☐	1.000		4491364.48		A	2.1
5	☐	1.000		4224789.04		A	2.2
6	☐	1.000		4200534.21		A	2.1
7	☐	1.000		4135033.65		A	2.2
8	☐	1.000		3600742.66		A	1.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2764890.03		A	1.4
2	☐	1.000		2783188.78		A	5.4
3	☐	1.000		2845378.19		A	2.3
4	☐	1.000		2805472.18		A	1.9
5	☐	1.000		2795863.19		A	0.3
6	☐	1.000		2786000.97		A	3.7
7	☐	1.000		2660216.58		A	1.9
8	☐	1.000		2372779.97		A	0.8

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8091422MS-3.b
Acq. Date-Time 2022-09-14 12:35:50
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		14841	148412.68			4.429	5.000
24		92338	923378.93			4.566	5.000
25		12160	121603.19			4.115	5.000
26		13821	138209.22			4.535	5.000
59		58740	587402.10			4.036	5.000
113		4772	47723.80			3.930	5.000
115		65751	657507.02			4.874	5.000
206		12553	125534.37			4.450	5.000
207		11240	112397.98			4.061	5.000
208		26958	269584.62			3.387	5.000
220		1	6.00			15.590	

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

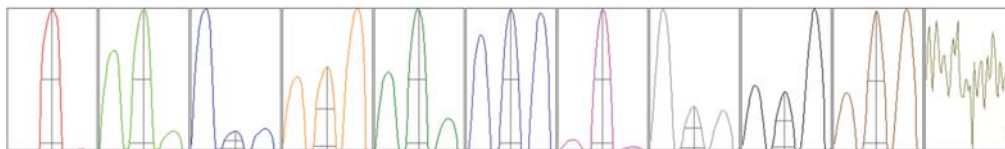
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	14572	14822	15871	14872	14070
24	91797	92994	98178	92407	86314
25	12133	12070	12854	12288	11457
26	13658	13953	14728	13784	12982
59	58051	58675	62251	59077	55648
113	4729	4790	5041	4787	4515
115	65069	66484	70147	65855	61198
206	12699	12713	13153	12567	11636
207	10999	11346	11684	11595	10575
208	26272	27201	28261	27137	25921

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	25308.63	9.00	8.90 - 9.10	
24	160460.80	24.00	23.90 - 24.10	
25	21272.97	25.00	24.90 - 25.10	
26	23940.78	26.00	25.90 - 26.10	
59	108591.32	59.00	58.90 - 59.10	
113	9467.88	113.00	112.90 - 113.10	
115	127924.56	115.00	114.90 - 115.10	
206	23728.33	206.00	205.90 - 206.10	
207	21516.96	206.95	206.90 - 207.10	
208	51923.46	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.739	0.900	
24	0.61	0.812	0.900	
25	0.61	0.769	0.900	
26	0.62	0.747	0.900	
59	0.57	0.732	0.900	
113	0.52	0.727	0.900	
115	0.54	0.729	0.900	
206	0.56	0.803	0.900	
207	0.55	0.770	0.900	
208	0.55	0.778	0.900	
220				

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	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.0 V	Deflect	12.8 V
Extract 2	-190.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-105 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	150 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-1.0 mm
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EM

Discriminator	4.4 mV	Analog HV	2307 V	Pulse HV	1610 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		14436	144362.53			1.044	
89		16548	165479.70			0.880	
205		25868	258675.30			0.603	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	14473	14273	14431	14338	14667
89	16441	16355	16689	16587	16668
205	25987	25667	26050	25863	25771

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	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.0 V	Deflect	3.6 V
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US EPA Tune Check Report

Extract 2 -190.0 V

Omega Bias -105 V

Cell Entrance -50 V

Cell Exit -70 V

Plate Bias -60 V

Cell Parameters

Use Gas Yes

He Flow 4.5 mL/min

H2 Flow ---

3rd Gas Flow ---

OctP Bias -18.0 V

OctP RF 190 V

Energy Discrimination 5.0 V

QP Parameters

Mass Gain 124

Mass Offset 125

Axis Gain 0.9992

Axis Offset 0.02

QP Bias -13.0 V

Hardware Settings

Torch

Torch H 1.0 mm

Torch V -1.0 mm

EM

Discriminator 4.4 mV

Analog HV 2307 V

Pulse HV 1610 V