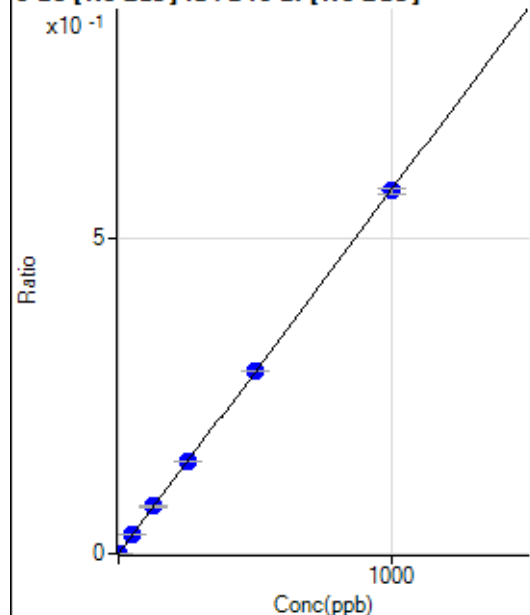


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8120420 MS.b\
Analysis File: P8120420 MS.batch.bin
DA Date-Time: 2020-12-09 00:42:29
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-12-04 12:40:06
2	004CAL.S.d	S02	2020-12-04 12:43:17
3	005CAL.S.d	S03	2020-12-04 12:46:26
4	006CAL.S.d	S04	2020-12-04 12:49:37
5	007CAL.S.d	S05	2020-12-04 12:52:42
6	008CAL.S.d	S06	2020-12-04 12:55:43
7	009CAL.S.d	S07	2020-12-04 12:58:41
8	010CAL.S.d	S08	2020-12-04 13:01:42

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	75.32	0.0001	P	19.0
2	☐	1.000	0.986	727.88	0.0006	P	2.3
3	☐	50.000	52.743	35817.42	0.0304	P	2.8
4	☐	125.000	130.043	88228.49	0.0750	P	1.1
5	☐	250.000	254.481	179657.78	0.1467	P	0.6
6	☐	500.000	501.503	358705.32	0.2890	P	0.4
7	☐	1000.000	997.361	704521.08	0.5746	P	1.5
8	☐			677.22	0.0005	P	6.1

$$y = 5.7608\text{E-}004 * x + 6.4521\text{E-}005$$

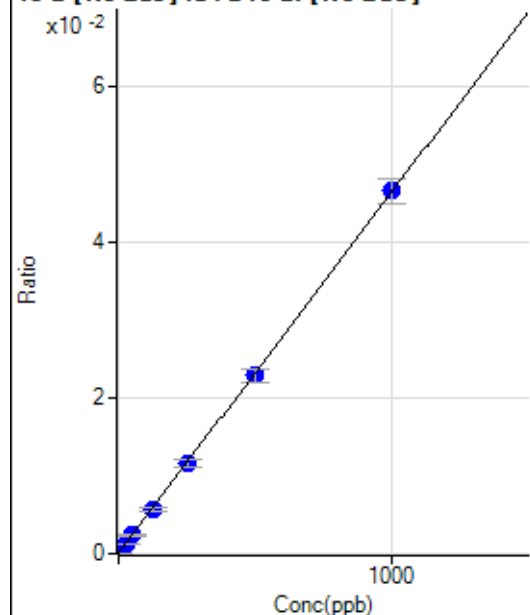
$$R = 1.0000$$

$$DL = 0.06379$$

$$BEC = 0.112$$

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	74.65	0.0001	P	12.7
2	☐	25.000	23.944	1346.47	0.0012	P	10.3
3	☐	50.000	51.292	2862.39	0.0024	P	11.3
4	☐	125.000	123.492	6795.58	0.0058	P	8.2
5	☐	250.000	248.985	14196.06	0.0116	P	6.9
6	☐	500.000	492.051	28329.66	0.0228	P	7.8
7	☐	1000.000	1004.378	57071.64	0.0465	P	6.8
8	☐			8545.49	0.0069	P	9.7

$$y = 4.6243\text{E-}005 * x + 6.3968\text{E-}005$$

$$R = 0.9999$$

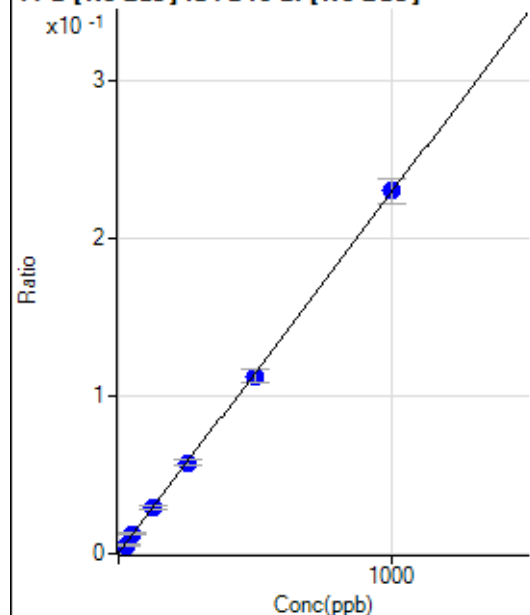
$$DL = 0.5291$$

$$BEC = 1.383$$

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	366.60	0.0003	P	10.4
2	☐	25.000	22.062	6174.10	0.0054	P	11.3
3	☐	50.000	52.513	14521.64	0.0124	P	10.0
4	☐	125.000	127.050	34654.53	0.0294	P	6.5
5	☐	250.000	251.292	71039.97	0.0579	P	6.9
6	☐	500.000	490.802	140128.06	0.1129	P	8.1
7	☐	1000.000	1003.968	282901.09	0.2305	P	6.8
8	☐			41721.56	0.0335	P	9.5

$$y = 2.2932\text{E-}004 * x + 3.1369\text{E-}004$$

$$R = 0.9999$$

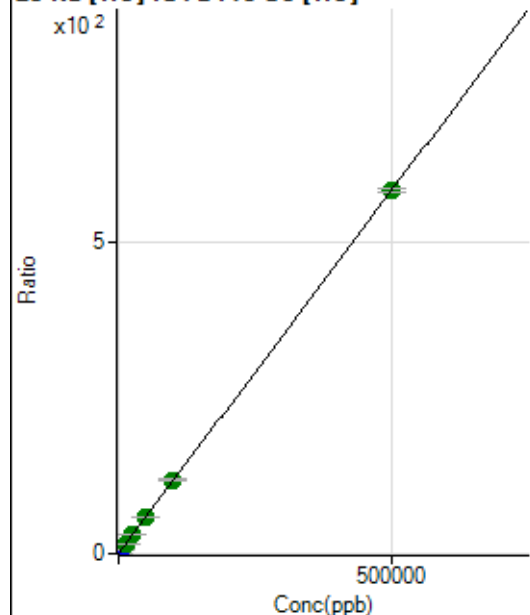
$$DL = 0.4266$$

$$BEC = 1.368$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	36159.32	0.3625	P	1.9
2	☐	500.000	474.479	91799.24	0.9142	P	2.9
3	☐	5000.000	5235.965	666233.38	6.4512	P	1.4
4	☐	12500.000	12898.055	1581653.70	15.3612	A	3.6
5	☐	25000.000	25680.720	3167886.70	30.2257	A	2.4
6	☐	50000.000	50682.425	6240096.06	59.2993	A	1.6
7	☐	100000.00	101012.47	12325800.54	117.8264	A	2.8
8	☐	500000.00	499682.94	59015090.90	581.4267	A	1.2

$$y = 0.0012 * x + 0.3625$$

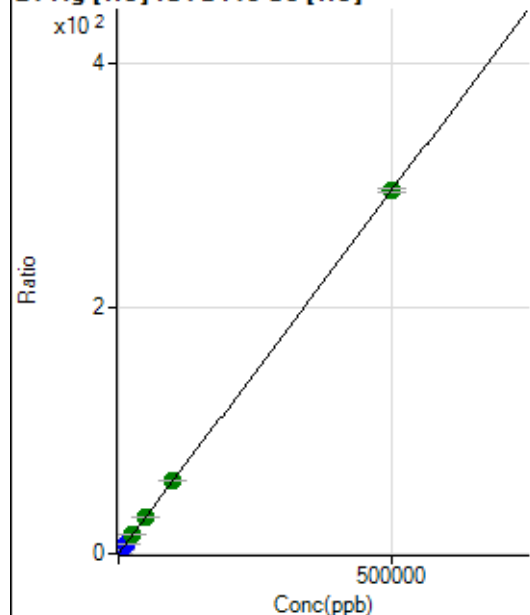
$$R = 1.0000$$

$$DL = 17.85$$

$$BEC = 311.7$$

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	663.92	0.0066	P	9.2
2	☐	500.000	478.734	29113.09	0.2900	P	3.7
3	☐	5000.000	5291.256	324071.08	3.1380	P	0.5
4	☐	12500.000	13085.672	798113.08	7.7508	P	2.6
5	☐	25000.000	25882.394	1606214.85	15.3240	A	1.2
6	☐	50000.000	50671.253	3156120.93	29.9941	A	2.2
7	☐	100000.00	100482.42	6221995.28	59.4726	A	2.3
8	☐	500000.00	499774.73	30021320.12	295.7754	A	1.2

$$y = 5.9180\text{E-}004 * x + 0.0066$$

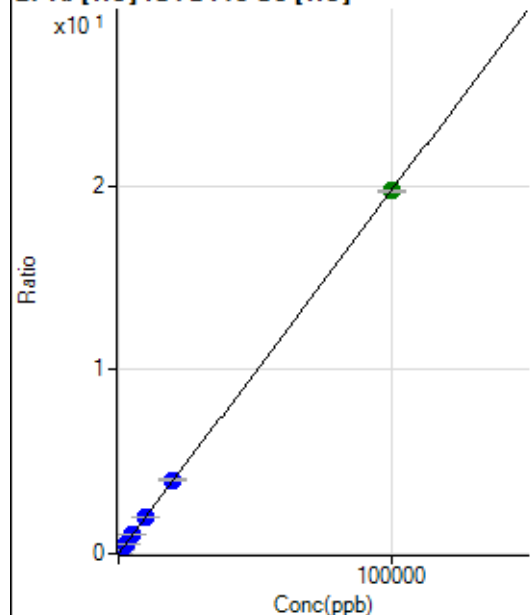
$$R = 1.0000$$

$$DL = 3.108$$

$$BEC = 11.24$$

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	432.87	0.0043	P	4.1
2	☐	20.000	19.763	828.67	0.0082	P	5.9
3	☐	1000.000	1023.591	21309.96	0.2063	P	0.8
4	☐	2500.000	2558.573	52439.12	0.5093	P	2.9
5	☐	5000.000	5072.637	105380.76	1.0054	P	1.9
6	☐	10000.000	10163.895	211528.23	2.0102	P	1.9
7	☐	20000.000	20183.444	417181.46	3.9876	P	2.2
8	☐	100000.00	99941.590	2002454.20	19.7280	A	0.4

$$y = 1.9735\text{E-}004 * x + 0.0043$$

$$R = 1.0000$$

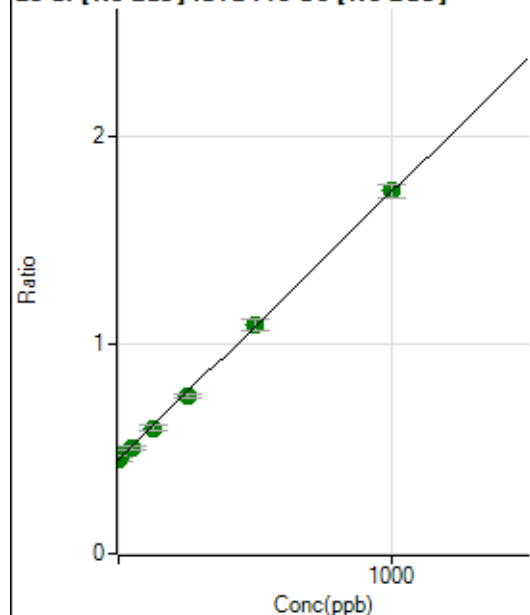
$$DL = 2.736$$

$$BEC = 21.99$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1094523.79	0.4515	A	2.8
2	☐	10.000	14.514	1107292.39	0.4701	A	1.8
3	☐	50.000	42.763	1222675.77	0.5063	A	2.4
4	☐	125.000	117.919	1459447.87	0.6027	A	3.4
5	☐	250.000	237.004	1883133.07	0.7554	A	3.0
6	☐	500.000	502.112	2762450.56	1.0954	A	5.0
7	☐	1000.000	1003.395	4280320.58	1.7384	A	3.9
8	☐			2151908.38	0.8877	A	2.3

$$y = 0.0013 * x + 0.4515$$

$$R = 0.9999$$

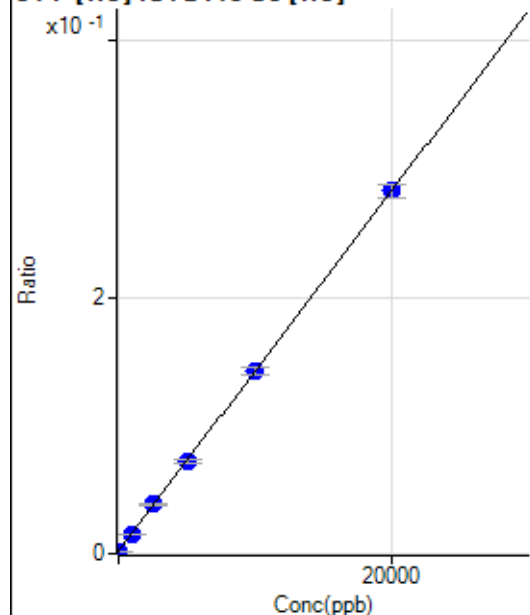
$$DL = 29.77$$

$$BEC = 352$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-1.668	197.23	0.0020	P	7.0
2	☐	0.000	1.668	202.79	0.0020	P	20.4
3	☐	1000.000	919.972	1541.79	0.0149	P	5.5
4	☐	2500.000	2608.715	3981.22	0.0387	P	4.7
5	☐	5000.000	4947.827	7496.56	0.0715	P	4.6
6	☐	10000.000	10006.901	15005.32	0.1426	P	3.7
7	☐	20000.000	20000.005	29605.77	0.2830	P	3.5
8	☐			233.34	0.0023	P	12.5

$$y = 1.4052E-005 * x + 0.0020$$

$$R = 1.0000$$

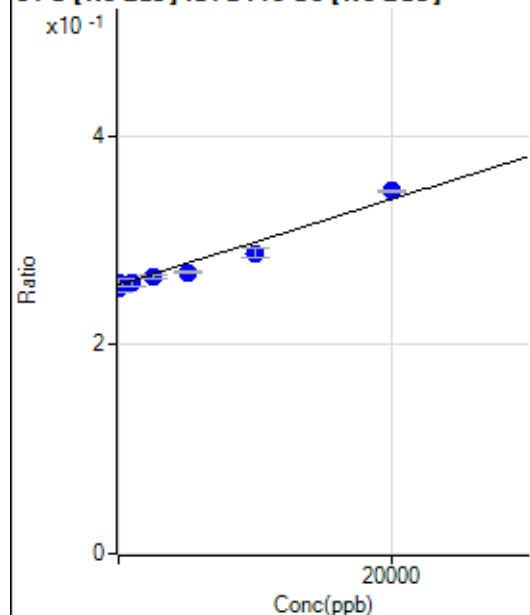
$$DL = 58.98$$

$$BEC = 142.4$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-719.766	617542.76	0.2548	P	3.4
2	☐	0.000	719.766	613963.78	0.2607	P	2.1
3	☐	1000.000	411.588	626364.97	0.2594	P	2.7
4	☐	2500.000	1854.586	642427.93	0.2653	P	1.6
5	☐	5000.000	2962.563	672658.81	0.2698	P	0.2
6	☐	10000.000	7384.600	725467.26	0.2880	P	3.0
7	☐	20000.000	21927.156	855456.11	0.3475	P	0.6
8	☐			568868.53	0.2350	P	3.3

$$y = 4.0971\text{E-}006 * x + 0.2577$$

R = 0.9830

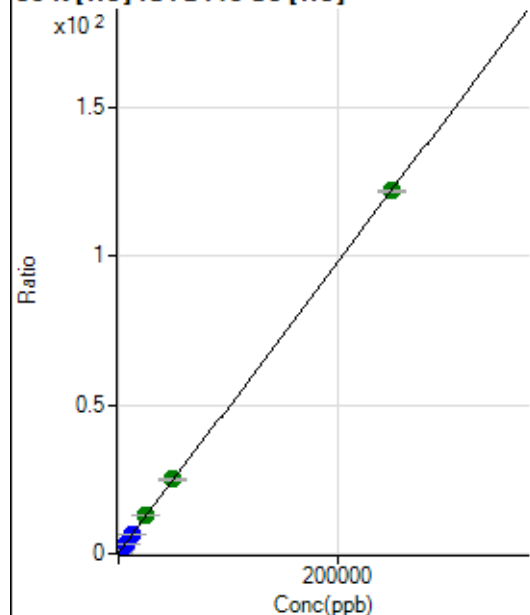
DL = 5173

BEC = 6.29E+04

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	29416.59	0.2949	P	1.2
2	☐	500.000	491.790	53636.50	0.5341	P	1.9
3	☐	2500.000	2618.723	161965.78	1.5683	P	1.7
4	☐	6250.000	6476.183	354657.59	3.4441	P	2.3
5	☐	12500.000	12965.754	691731.53	6.5998	P	1.9
6	☐	25000.000	25679.806	1345115.98	12.7823	A	1.3
7	☐	50000.000	50504.789	2600030.59	24.8541	A	2.7
8	☐	250000.00	249800.94	12359605.22	121.7667	A	0.6

$$y = 4.8627\text{E-}004 * x + 0.2949$$

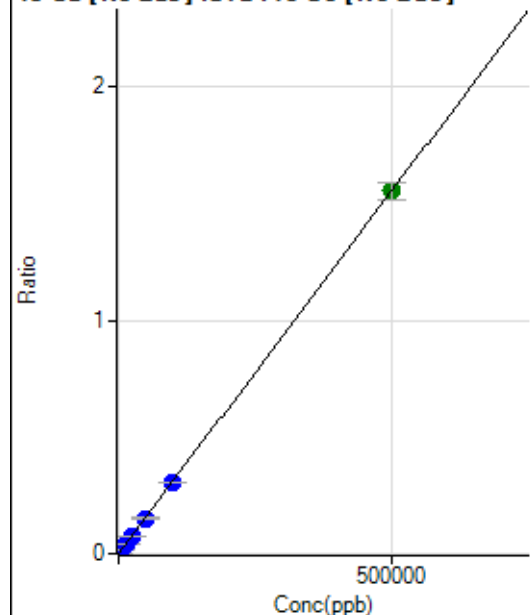
R = 1.0000

DL = 22.18

BEC = 606.5

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	328.71	0.0001	P	3.3
2	☐	500.000	474.264	3784.62	0.0016	P	4.9
3	☐	5000.000	5009.180	37870.24	0.0157	P	2.7
4	☐	12500.000	12150.186	91636.47	0.0378	P	2.4
5	☐	25000.000	24277.925	188175.76	0.0755	P	1.1
6	☐	50000.000	48605.412	380472.42	0.1510	P	2.0
7	☐	100000.00	98436.670	752340.09	0.3057	P	1.2
8	☐	500000.00	500496.90	3759492.15	1.5536	A	4.5

$$y = 3.1038\text{E-}006 * x + 1.3543\text{E-}004$$

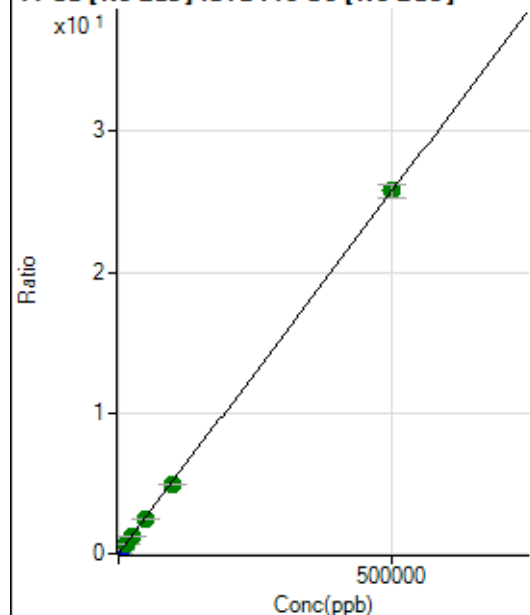
$$R = 1.0000$$

$$DL = 4.371$$

$$BEC = 43.63$$

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	29504.50	0.0122	P	2.9
2	☐	500.000	468.563	85419.10	0.0363	P	3.0
3	☐	5000.000	4994.525	649713.40	0.2691	P	2.4
4	☐	12500.000	12247.728	1554895.45	0.6421	A	1.3
5	☐	25000.000	24092.962	3119264.06	1.2513	A	0.1
6	☐	50000.000	47465.280	6181803.12	2.4534	A	2.2
7	☐	100000.00	96318.333	12224055.97	4.9661	A	0.2
8	☐	500000.00	501041.55	62395124.88	25.7820	A	4.1

$$y = 5.1433\text{E-}005 * x + 0.0122$$

$$R = 1.0000$$

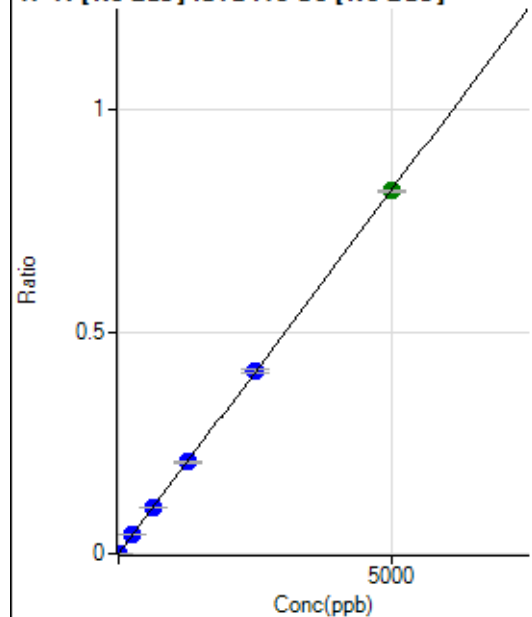
$$DL = 20.35$$

$$BEC = 236.6$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	436.13	0.0002	P	14.2
2	☐	5.000	4.829	2286.36	0.0010	P	10.0
3	☐	250.000	257.319	102283.36	0.0424	P	2.9
4	☐	625.000	629.719	250340.96	0.1034	P	2.2
5	☐	1250.000	1260.428	515420.58	0.2068	P	0.8
6	☐	2500.000	2511.808	1037862.97	0.4119	P	1.6
7	☐	5000.000	4990.533	2013770.96	0.8181	A	0.9
8	☐			1452.88	0.0006	P	14.3

$$y = 1.6390E-004 * x + 1.8029E-004$$

$$R = 1.0000$$

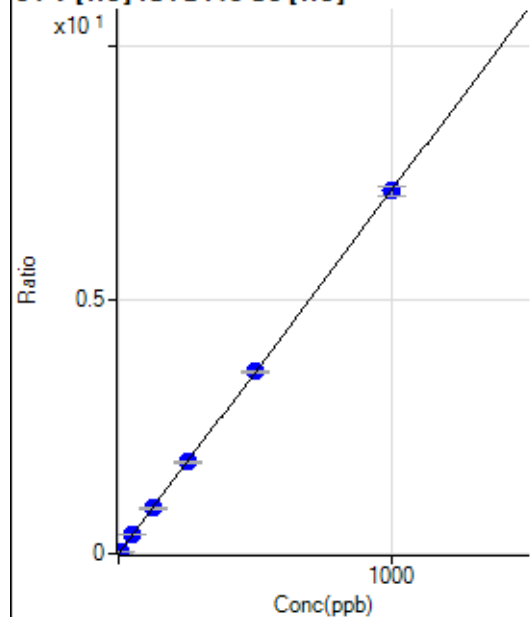
$$DL = 0.4685$$

$$BEC = 1.1$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13.33	0.0001	P	65.1
2	☐	5.000	4.822	3480.46	0.0347	P	4.3
3	☐	50.000	50.733	37539.06	0.3635	P	1.1
4	☐	125.000	124.502	91848.83	0.8919	P	1.4
5	☐	250.000	251.855	189083.66	1.8040	P	1.6
6	☐	500.000	501.190	377775.47	3.5898	P	1.5
7	☐	1000.000	998.968	748520.79	7.1551	P	2.5
8	☐			265.56	0.0026	P	16.5

$$y = 0.0072 * x + 1.3298E-004$$

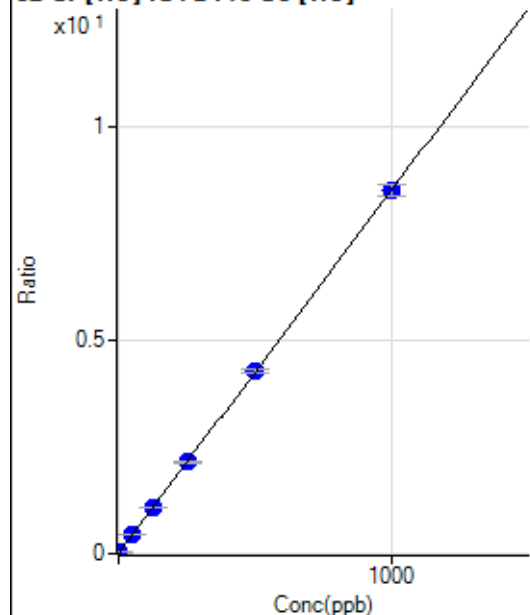
$$R = 1.0000$$

$$DL = 0.03628$$

$$BEC = 0.01857$$

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	644.47	0.0065	P	11.8
2	☐	2.000	1.916	2290.21	0.0228	P	1.1
3	☐	50.000	50.539	45152.11	0.4372	P	1.9
4	☐	125.000	126.446	111637.94	1.0842	P	2.6
5	☐	250.000	251.082	224982.31	2.1464	P	1.0
6	☐	500.000	502.504	451328.90	4.2893	P	2.4
7	☐	1000.000	998.270	890668.07	8.5146	P	3.1
8	☐			17706.60	0.1744	P	0.6

$$y = 0.0085 * x + 0.0065$$

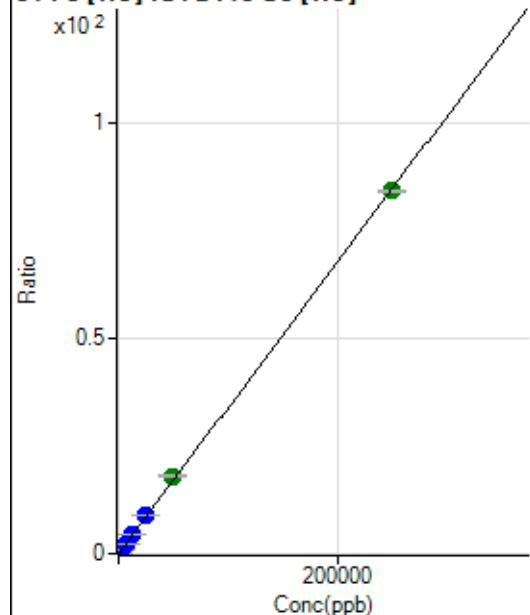
$$R = 1.0000$$

$$DL = 0.2692$$

$$BEC = 0.7589$$

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	501.87	0.0050	P	7.6
2	☐	50.000	51.101	2240.96	0.0223	P	6.1
3	☐	2500.000	2708.046	95006.39	0.9200	P	0.4
4	☐	6250.000	6764.872	235872.85	2.2906	P	2.3
5	☐	12500.000	13364.753	473795.36	4.5204	P	1.8
6	☐	25000.000	26624.613	947059.98	9.0004	P	2.3
7	☐	50000.000	53013.259	1874292.72	17.9160	A	2.5
8	☐	250000.00	249176.69	8545556.96	84.1913	A	0.8

$$y = 3.3786E-004 * x + 0.0050$$

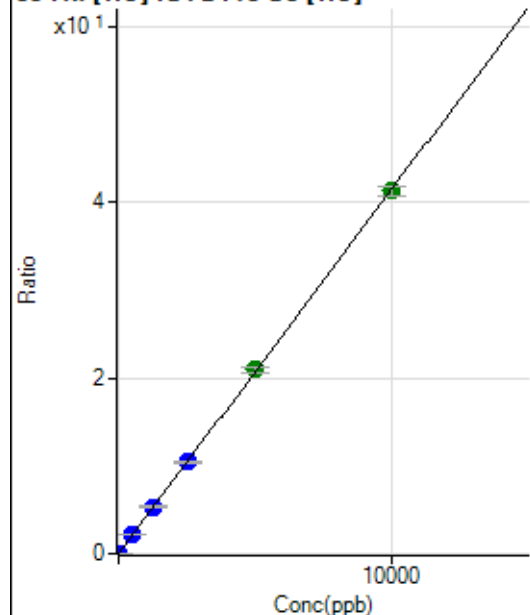
$$R = 0.9999$$

$$DL = 3.374$$

$$BEC = 14.89$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	123.33	0.0012	P	21.9
2	☐	1.000	1.043	557.80	0.0056	P	6.0
3	☐	500.000	509.167	217766.33	2.1087	P	1.0
4	☐	1250.000	1279.320	545402.73	5.2963	P	2.3
5	☐	2500.000	2530.681	1097964.96	10.4757	P	1.9
6	☐	5000.000	5047.870	2198549.48	20.8943	A	2.4
7	☐	10000.000	9964.272	4314761.25	41.2431	A	2.3
8	☐			5960.19	0.0587	P	5.0

$$y = 0.0041 * x + 0.0012$$

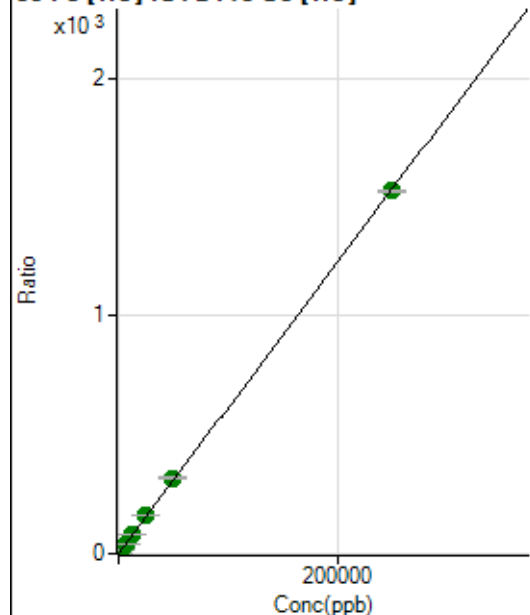
$$R = 1.0000$$

$$DL = 0.1965$$

$$BEC = 0.2991$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3096.69	0.0310	P	5.9
2	☐	50.000	50.921	34426.99	0.3428	P	1.8
3	☐	2500.000	2699.417	1709913.58	16.5574	A	0.6
4	☐	6250.000	6702.563	4228608.26	41.0655	A	2.6
5	☐	12500.000	13278.271	8523894.12	81.3233	A	1.4
6	☐	25000.000	26374.665	16994623.18	161.5020	A	1.8
7	☐	50000.000	52184.717	33429542.65	319.5163	A	1.8
8	☐	250000.00	249373.36	154966888.6	1,526.744	A	0.8

$$y = 0.0061 * x + 0.0310$$

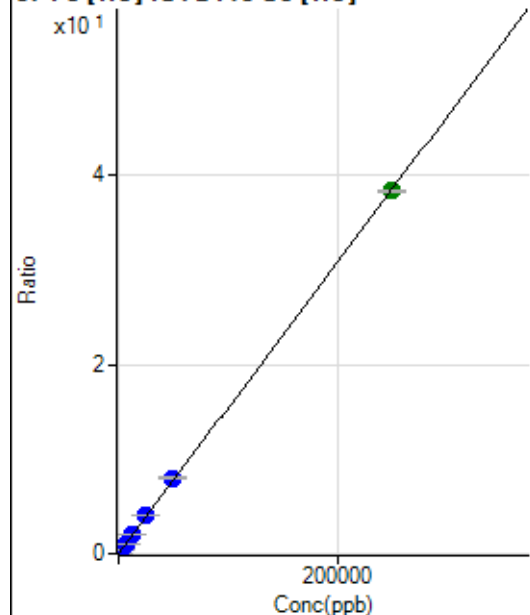
$$R = 1.0000$$

$$DL = 0.8927$$

$$BEC = 5.07$$

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	138.89	0.0014	P	17.0
2	☐	50.000	48.204	887.08	0.0088	P	14.5
3	☐	2500.000	2689.191	42862.67	0.4150	P	1.4
4	☐	6250.000	6573.590	104277.91	1.0125	P	1.8
5	☐	12500.000	13181.121	212666.13	2.0289	P	1.1
6	☐	25000.000	26175.596	423852.03	4.0277	P	1.3
7	☐	50000.000	51886.694	835115.19	7.9826	P	2.4
8	☐	250000.00	249461.06	3895137.09	38.3737	A	0.5

$$y = 1.5382\text{E-}004 * x + 0.0014$$

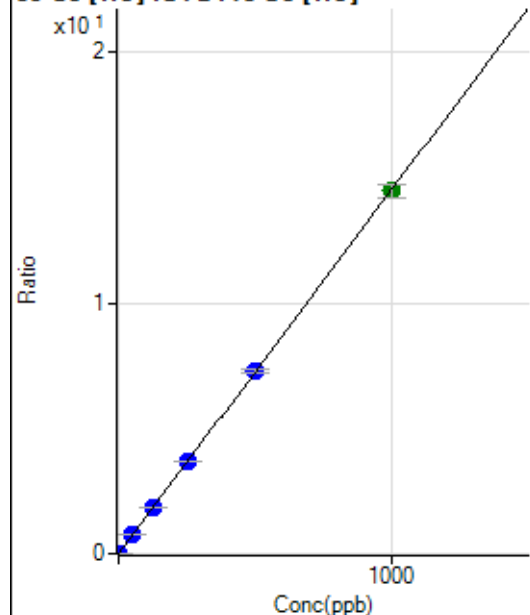
$$R = 1.0000$$

$$DL = 4.605$$

$$BEC = 9.036$$

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	67.78	0.0007	P	33.0
2	☐	1.000	0.900	1378.97	0.0137	P	7.7
3	☐	50.000	51.044	76603.42	0.7418	P	1.2
4	☐	125.000	126.845	189704.13	1.8423	P	2.7
5	☐	250.000	254.486	387335.55	3.6954	P	1.4
6	☐	500.000	502.465	767703.07	7.2957	P	1.9
7	☐	1000.000	997.363	1514639.54	14.4809	A	3.8
8	☐			3050.36	0.0301	P	6.7

$$y = 0.0145 * x + 6.8024\text{E-}004$$

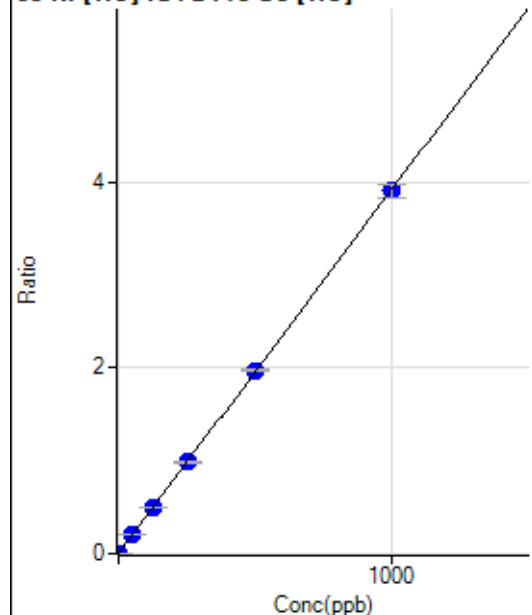
$$R = 1.0000$$

$$DL = 0.04632$$

$$BEC = 0.04685$$

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	292.23	0.0029	P	6.1
2	☐	1.000	0.872	637.80	0.0063	P	5.9
3	☐	50.000	51.340	21033.38	0.2037	P	0.9
4	☐	125.000	127.451	51619.86	0.5013	P	1.9
5	☐	250.000	253.083	104020.97	0.9925	P	2.0
6	☐	500.000	503.159	207340.27	1.9703	P	1.1
7	☐	1000.000	997.277	408182.50	3.9022	P	3.4
8	☐			5697.87	0.0561	P	1.2

$$y = 0.0039 * x + 0.0029$$

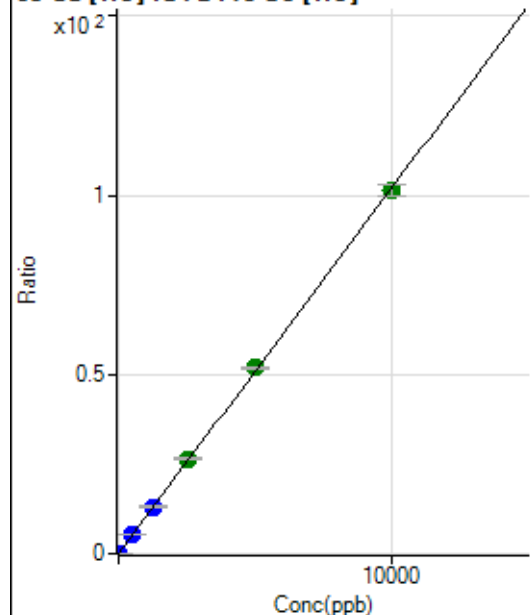
$$R = 1.0000$$

$$DL = 0.1373$$

$$BEC = 0.7496$$

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	792.20	0.0079	P	5.1
2	☐	2.000	1.968	2813.59	0.0280	P	2.7
3	☐	500.000	518.148	546231.47	5.2892	P	0.8
4	☐	1250.000	1287.236	1351927.69	13.1283	P	2.2
5	☐	2500.000	2584.715	2762125.48	26.3530	A	1.9
6	☐	5000.000	5084.543	5454500.67	51.8329	A	1.4
7	☐	10000.000	9930.988	10588994.81	101.2310	A	3.3
8	☐			11521.28	0.1135	P	5.7

$$y = 0.0102 * x + 0.0079$$

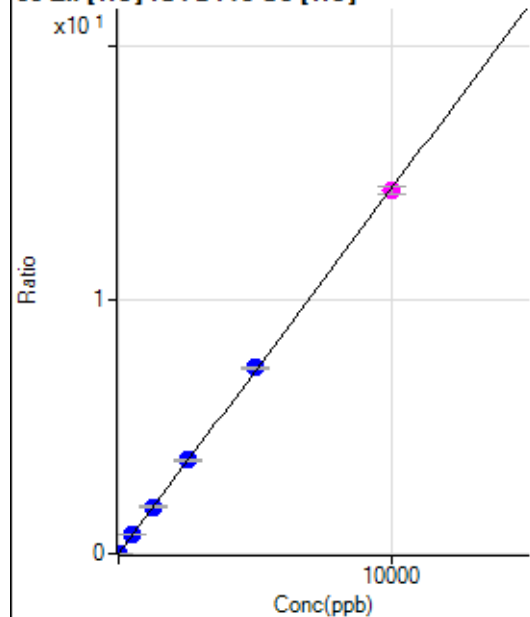
$$R = 0.9999$$

$$DL = 0.1193$$

$$BEC = 0.7793$$

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	110.00	0.0011	P	4.7
2	☐	2.000	1.707	357.79	0.0036	P	9.8
3	☐	500.000	520.211	77348.47	0.7490	P	0.5
4	☐	1250.000	1284.354	190255.45	1.8475	P	2.1
5	☐	2500.000	2569.500	387298.17	3.6951	P	1.7
6	☐	5000.000	5083.044	769121.26	7.3087	P	1.4
7	☐	10000.000	9935.798	1494523.54	14.2853	M	2.2
8	☐			5845.71	0.0576	P	0.4

$$y = 0.0014 * x + 0.0011$$

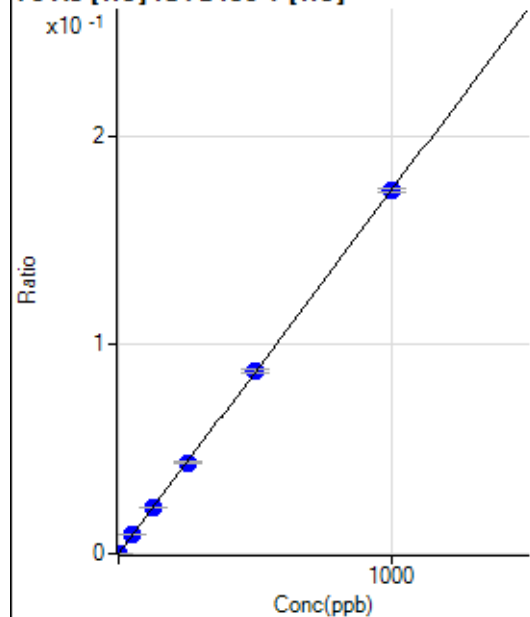
$$R = 0.9999$$

$$DL = 0.1091$$

$$BEC = 0.7669$$

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	8.00	0.0000	P	27.0
2	☐	1.000	0.946	112.01	0.0002	P	3.1
3	☐	50.000	51.277	5761.43	0.0089	P	1.6
4	☐	125.000	125.052	14298.34	0.0218	P	1.0
5	☐	250.000	251.060	29287.47	0.0437	P	3.2
6	☐	500.000	502.793	58636.33	0.0876	P	1.8
7	☐	1000.000	998.268	115877.40	0.1738	P	1.2
8	☐			77.68	0.0001	P	8.7

$$y = 1.7411E-004 * x + 1.2697E-005$$

$$R = 1.0000$$

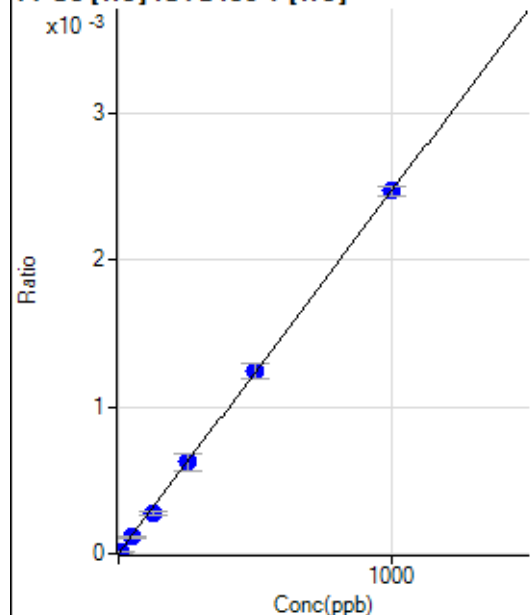
$$DL = 0.05902$$

$$BEC = 0.07292$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	3.520	6.67	0.0000	P	47.8
3	☐	50.000	44.729	72.22	0.0001	P	14.8
4	☐	125.000	112.687	183.34	0.0003	P	9.4
5	☐	250.000	251.580	417.79	0.0006	P	17.2
6	☐	500.000	501.639	830.03	0.0012	P	8.3
7	☐	1000.000	1000.596	1645.67	0.0025	P	2.7
8	☐			3.33	0.0000	P	99.9

$$y = 2.4650\text{E-}006 * x + 1.8008\text{E-}006$$

$$R = 0.9999$$

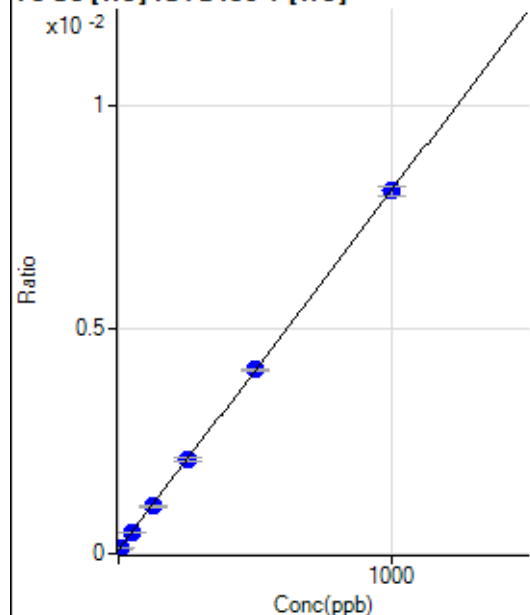
$$DL = 3.796$$

$$BEC = 0.7306$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	54.01	0.0001	P	3.7
2	☐	5.000	4.299	75.68	0.0001	P	7.4
3	☐	50.000	49.479	310.37	0.0005	P	4.1
4	☐	125.000	122.447	699.42	0.0011	P	3.0
5	☐	250.000	251.093	1404.22	0.0021	P	4.4
6	☐	500.000	501.799	2748.55	0.0041	P	1.4
7	☐	1000.000	999.176	5389.91	0.0081	P	2.6
8	☐			55.01	0.0001	P	18.7

$$y = 8.0067\text{E-}006 * x + 8.5412\text{E-}005$$

$$R = 1.0000$$

$$DL = 1.184$$

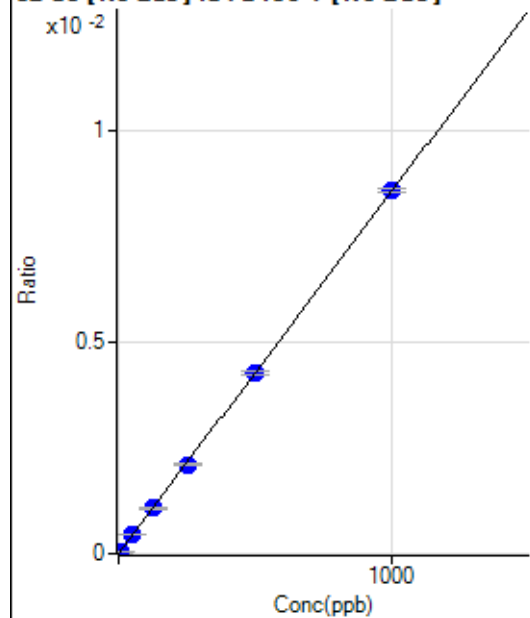
$$BEC = 10.67$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2986.75		P	5.2
2	☐			3036.82		P	1.7
3	☐			2913.32		P	2.1
4	☐			2806.52		P	9.7
5	☐			3060.16		P	1.9
6	☐			3136.93		P	11.1
7	☐			3237.05		P	4.7
8	☐			3313.82		P	6.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-22.72	0.0000	P	-279.
2	☐	5.000	6.066	262.23	0.0000	P	28.4
3	☐	50.000	54.410	2597.11	0.0005	P	0.5
4	☐	125.000	125.124	6044.47	0.0011	P	1.0
5	☐	250.000	246.536	12237.29	0.0021	P	1.7
6	☐	500.000	497.311	24768.38	0.0043	P	2.0
7	☐	1000.000	1001.969	48789.82	0.0086	P	1.0
8	☐			48.97	0.0000	P	62.2

$$y = 8.5761E-006 * x - 4.1632E-006$$

$$R = 1.0000$$

$$DL = 4.075$$

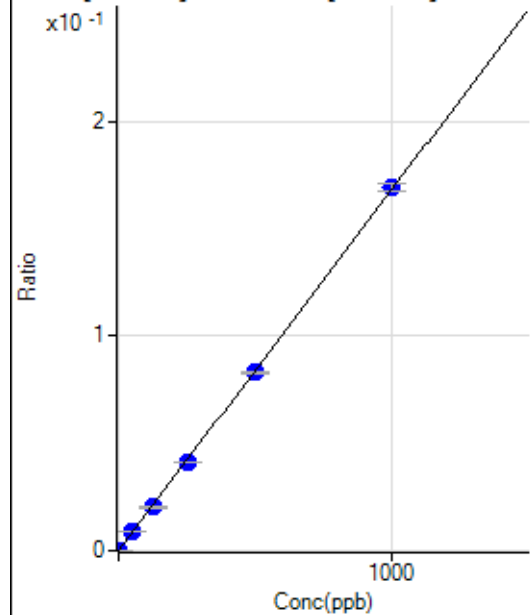
$$BEC = -0.4854$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			462.23		P	12.1
2	☐			382.23		P	15.0
3	☐			404.45		P	15.5
4	☐			453.35		P	6.0
5	☐			406.68		P	7.0
6	☐			398.90		P	10.3
7	☐			413.34		P	12.8
8	☐			422.23		P	5.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	733.38	0.0001	P	10.6
2	☐	1.000	0.984	1627.92	0.0003	P	4.4
3	☐	50.000	51.056	48933.61	0.0087	P	4.4
4	☐	125.000	121.426	116152.83	0.0205	P	4.1
5	☐	250.000	244.604	239284.79	0.0413	P	1.7
6	☐	500.000	493.144	482861.95	0.0831	P	0.8
7	☐	1000.000	1005.171	960752.56	0.1691	P	2.2
8	☐			5987.54	0.0011	P	4.1

$$y = 1.6815E-004 * x + 1.3234E-004$$

$$R = 0.9999$$

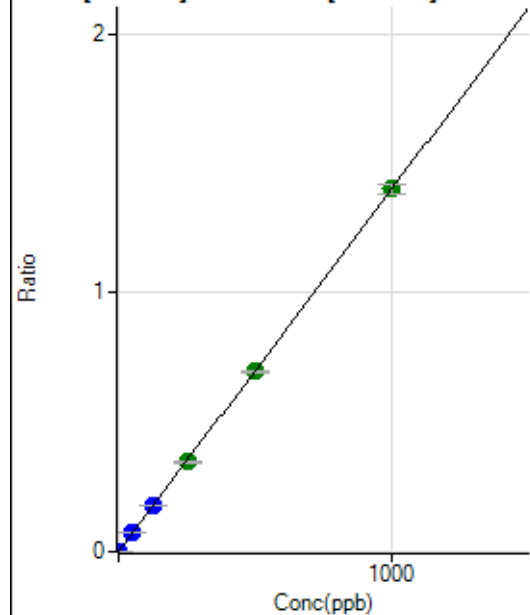
$$DL = 0.2492$$

$$BEC = 0.787$$

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	94.45	0.0000	P	22.3
2	☐	1.000	1.002	7763.47	0.0014	P	3.6
3	☐	50.000	52.134	409966.63	0.0730	P	1.9
4	☐	125.000	126.637	1002780.41	0.1773	P	1.4
5	☐	250.000	248.743	2020057.58	0.3483	A	1.6
6	☐	500.000	496.922	4045339.15	0.6958	A	1.3
7	☐	1000.000	1001.542	7965779.61	1.4024	A	2.4
8	☐			47473.14	0.0086	P	1.8

$$y = 0.0014 * x + 1.7061E-005$$

$$R = 1.0000$$

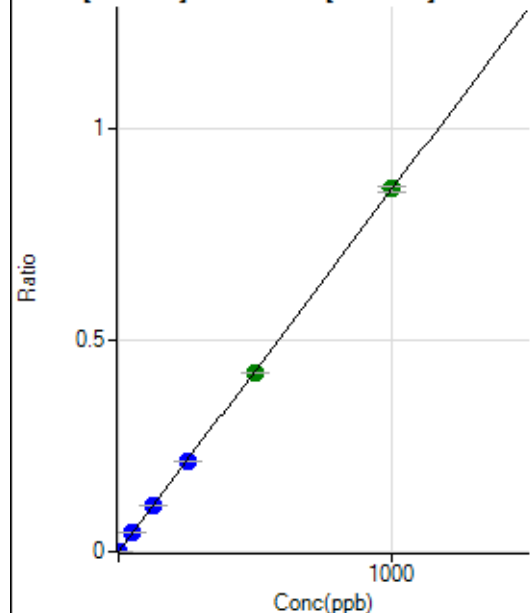
$$DL = 0.008135$$

$$BEC = 0.01218$$

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	280.57	0.0001	P	16.8
2	☐	1.000	0.953	4734.25	0.0009	P	5.4
3	☐	50.000	51.363	247065.57	0.0440	P	1.6
4	☐	125.000	126.404	611925.37	0.1082	P	1.7
5	☐	250.000	250.759	1244769.71	0.2146	P	1.0
6	☐	500.000	493.966	2457843.61	0.4227	A	1.0
7	☐	1000.000	1002.583	4873595.77	0.8580	A	1.7
8	☐			3275.49	0.0006	P	10.1

$$y = 8.5572E-004 * x + 5.0400E-005$$

$$R = 1.0000$$

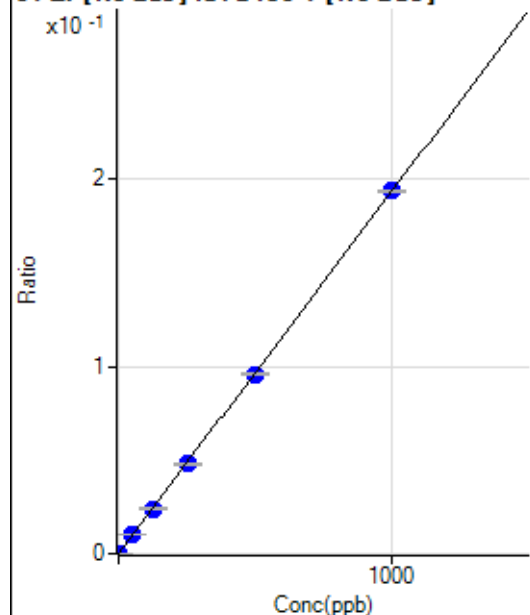
$$DL = 0.0297$$

$$BEC = 0.0589$$

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	69.45	0.0000	P	29.1
2	☐	1.000	0.927	1047.30	0.0002	P	5.1
3	☐	50.000	51.329	55742.55	0.0099	P	1.3
4	☐	125.000	124.031	135529.55	0.0240	P	2.1
5	☐	250.000	248.117	278017.27	0.0479	P	1.8
6	☐	500.000	496.477	557638.14	0.0959	P	1.0
7	☐	1000.000	1002.287	1099892.69	0.1936	P	0.8
8	☐			736.15	0.0001	P	9.9

$$y = 1.9316\text{E-}004 * x + 1.2545\text{E-}005$$

$$R = 1.0000$$

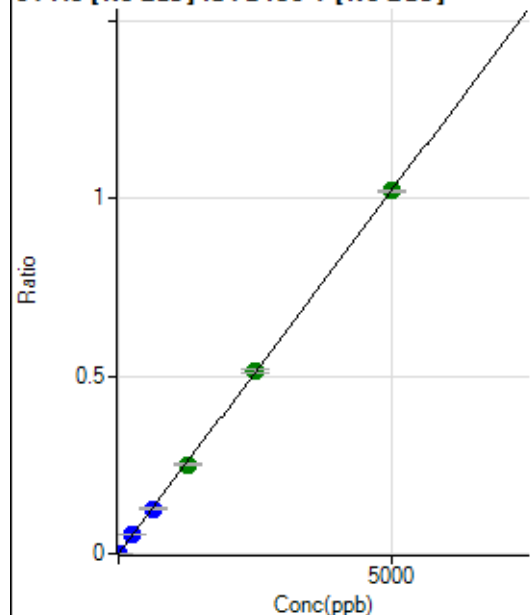
$$DL = 0.05679$$

$$BEC = 0.06494$$

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	116.67	0.0000	P	9.7
2	☐	5.000	4.665	5326.17	0.0010	P	6.6
3	☐	250.000	255.893	293876.33	0.0523	P	1.7
4	☐	625.000	620.984	717922.45	0.1270	P	2.8
5	☐	1250.000	1230.699	1459505.59	0.2517	A	1.5
6	☐	2500.000	2513.391	2987371.29	0.5139	A	2.6
7	☐	5000.000	4998.338	5805946.40	1.0220	A	0.5
8	☐			6026.45	0.0011	P	8.0

$$y = 2.0446\text{E-}004 * x + 2.1053\text{E-}005$$

$$R = 1.0000$$

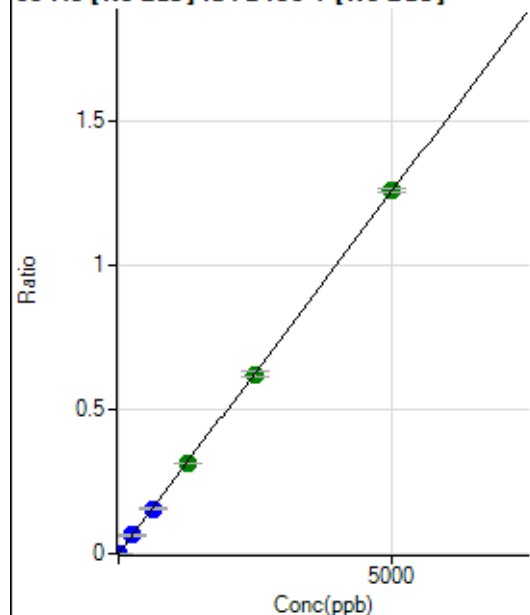
$$DL = 0.03009$$

$$BEC = 0.103$$

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	33.33	0.0000	P	45.2
2	☐	5.000	4.977	6865.76	0.0013	P	5.6
3	☐	250.000	254.260	358688.84	0.0639	P	2.0
4	☐	625.000	622.680	884572.99	0.1565	P	2.0
5	☐	1250.000	1251.900	1824282.70	0.3145	A	1.5
6	☐	2500.000	2475.104	3614441.40	0.6219	A	3.1
7	☐	5000.000	5012.050	7153611.96	1.2593	A	1.2
8	☐			8085.94	0.0015	P	4.7

$$y = 2.5124\text{E-}004 * x + 6.0361\text{E-}006$$

$$R = 1.0000$$

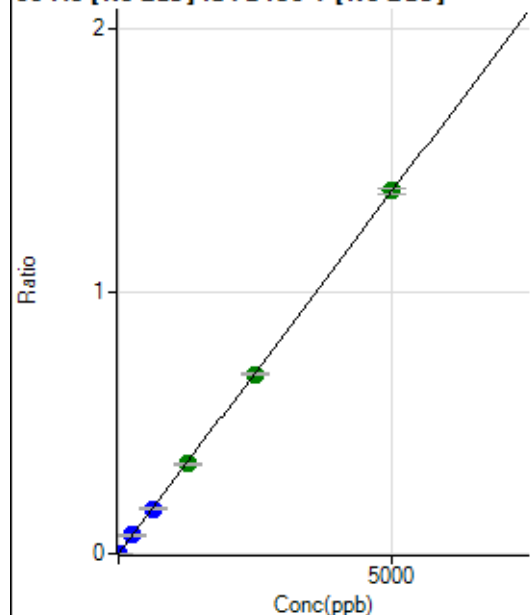
$$DL = 0.03256$$

$$BEC = 0.02402$$

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	47.22	0.0000	P	55.3
2	☐	5.000	4.773	7252.09	0.0013	P	2.8
3	☐	250.000	252.911	391943.36	0.0698	P	1.6
4	☐	625.000	619.048	965958.83	0.1709	P	2.4
5	☐	1250.000	1243.878	1991015.32	0.3433	A	1.9
6	☐	2500.000	2474.500	3970328.04	0.6829	A	1.2
7	☐	5000.000	5014.879	7861638.29	1.3840	A	1.8
8	☐			9258.88	0.0017	P	7.0

$$y = 2.7598\text{E-}004 * x + 8.5724\text{E-}006$$

$$R = 1.0000$$

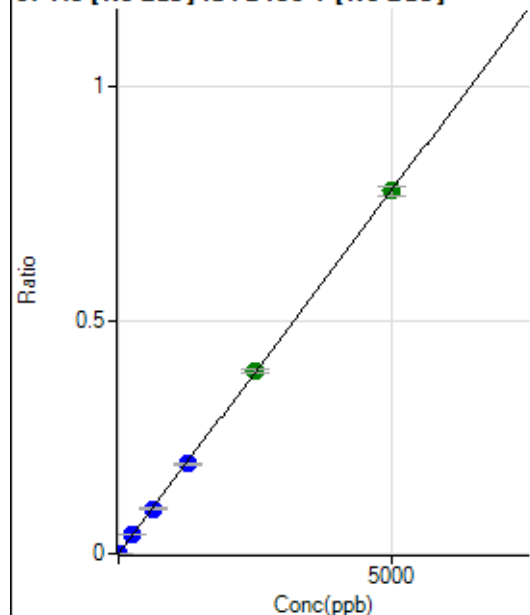
$$DL = 0.05156$$

$$BEC = 0.03106$$

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	13.89	0.0000	P	33.9
2	☐	5.000	4.888	4167.40	0.0008	P	7.2
3	☐	250.000	253.770	221656.65	0.0395	P	1.5
4	☐	625.000	615.501	541285.80	0.0957	P	2.9
5	☐	1250.000	1236.047	1115173.78	0.1923	P	0.9
6	☐	2500.000	2516.973	2276042.11	0.3915	A	2.0
7	☐	5000.000	4996.001	4414179.83	0.7772	A	2.4
8	☐			4837.10	0.0009	P	2.1

$$y = 1.5556\text{E-}004 * x + 2.4963\text{E-}006$$

$$R = 1.0000$$

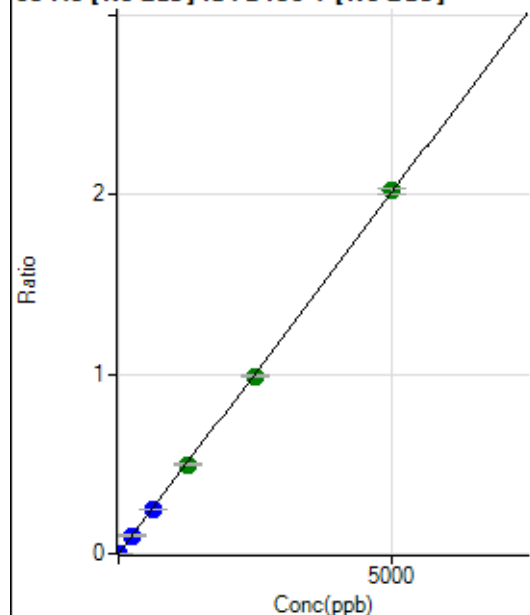
$$DL = 0.01633$$

$$BEC = 0.01605$$

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	33.33	0.0000	P	27.1
2	☐	5.000	4.765	10518.10	0.0019	P	1.6
3	☐	250.000	250.110	564880.53	0.1006	P	2.5
4	☐	625.000	615.129	1399125.99	0.2475	P	2.2
5	☐	1250.000	1227.668	2864012.26	0.4939	A	2.1
6	☐	2500.000	2462.972	5760161.42	0.9908	A	1.4
7	☐	5000.000	5025.326	11483374.21	2.0216	A	1.4
8	☐			13034.22	0.0023	P	6.2

$$y = 4.0228\text{E-}004 * x + 6.0312\text{E-}006$$

$$R = 0.9999$$

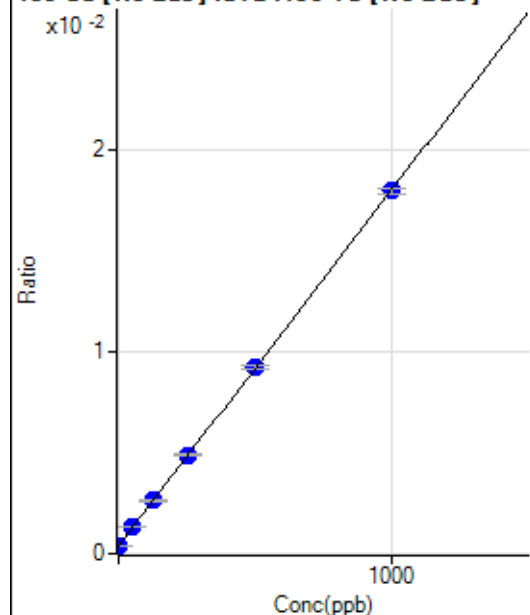
$$DL = 0.01217$$

$$BEC = 0.01499$$

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	1475.12	0.0004	P	5.0
2	☐	1.000	1.192	1541.80	0.0004	P	3.3
3	☐	50.000	53.130	5220.57	0.0013	P	1.9
4	☐	125.000	128.418	10484.83	0.0026	P	4.8
5	☐	250.000	254.154	19675.68	0.0049	P	2.0
6	☐	500.000	501.257	37796.87	0.0092	P	2.5
7	☐	1000.000	997.749	72189.53	0.0180	P	1.6
8	☐			1480.69	0.0004	P	5.9

$$y = 1.7621\text{E-}005 * x + 3.8407\text{E-}004$$

$$R = 1.0000$$

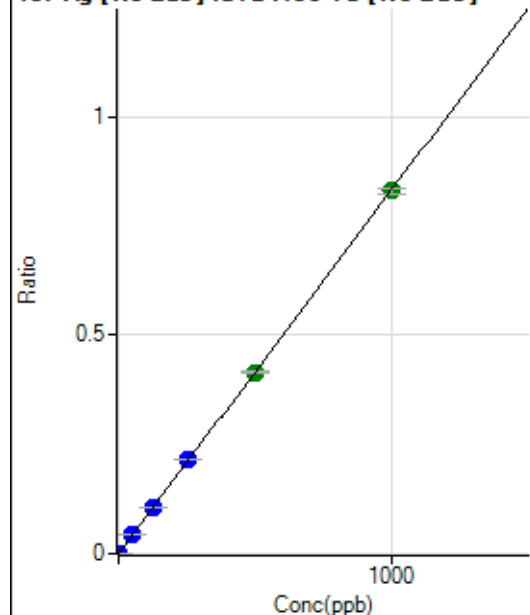
$$DL = 3.293$$

$$BEC = 21.8$$

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	47.22	0.0000	P	38.5
2	☐	1.000	0.975	3133.78	0.0008	P	7.1
3	☐	50.000	52.347	172238.73	0.0436	P	1.7
4	☐	125.000	128.008	421786.30	0.1065	P	0.6
5	☐	250.000	258.452	869934.82	0.2150	P	1.2
6	☐	500.000	499.614	1704754.64	0.4156	A	1.1
7	☐	1000.000	997.587	3334696.71	0.8299	A	1.9
8	☐			2878.15	0.0007	P	6.0

$$y = 8.3191\text{E-}004 * x + 1.2370\text{E-}005$$

$$R = 1.0000$$

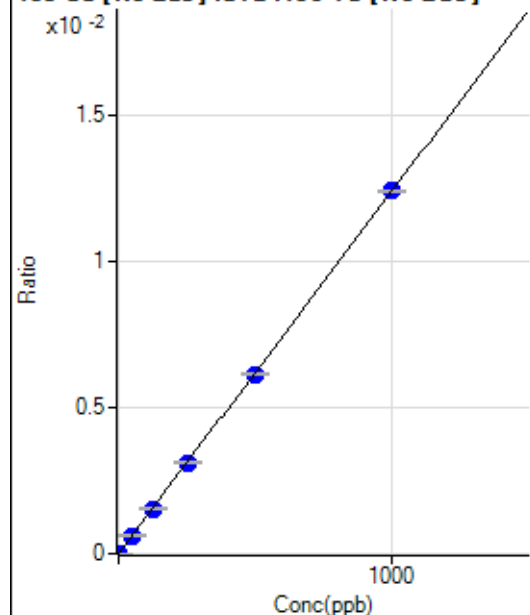
$$DL = 0.01719$$

$$BEC = 0.01487$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	12.50	0.0000	P	59.2
2	☐	1.000	1.385	77.78	0.0000	P	19.3
3	☐	50.000	49.380	2429.41	0.0006	P	4.2
4	☐	125.000	124.281	6104.19	0.0015	P	1.4
5	☐	250.000	251.572	12607.27	0.0031	P	2.7
6	☐	500.000	495.347	25160.55	0.0061	P	0.5
7	☐	1000.000	1002.054	49849.40	0.0124	P	0.8
8	☐			101.39	0.0000	P	5.6

$$y = 1.2376E-005 * x + 3.2742E-006$$

$$R = 1.0000$$

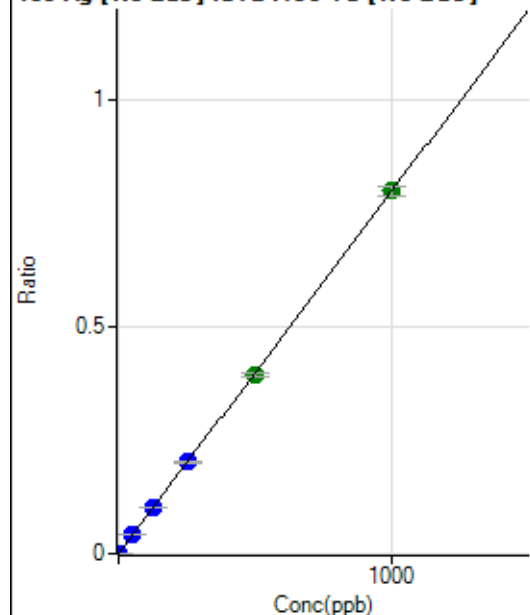
$$DL = 0.4697$$

$$BEC = 0.2646$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	38.89	0.0000	P	69.7
2	☐	1.000	0.957	2953.18	0.0008	P	0.3
3	☐	50.000	52.206	165184.06	0.0418	P	1.0
4	☐	125.000	126.737	401584.92	0.1014	P	2.0
5	☐	250.000	253.518	820516.35	0.2028	P	1.5
6	☐	500.000	494.818	1623449.71	0.3959	A	1.8
7	☐	1000.000	1001.384	3218843.67	0.8011	A	2.3
8	☐			2744.79	0.0007	P	10.3

$$y = 7.9998E-004 * x + 1.0262E-005$$

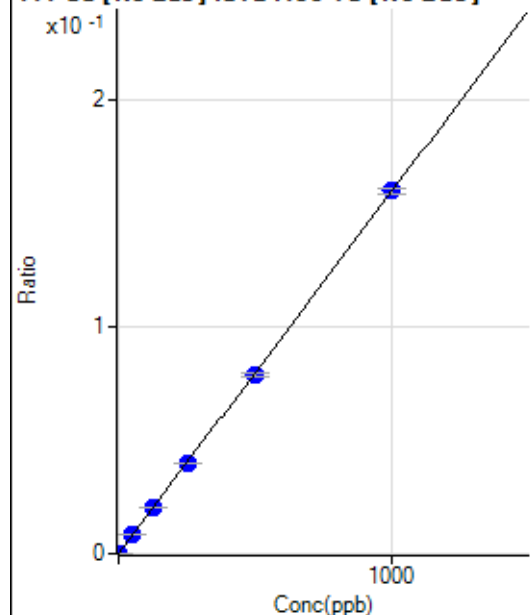
$$R = 1.0000$$

$$DL = 0.02681$$

$$BEC = 0.01283$$

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	155.43	0.0000	P	5.9
2	☐	1.000	1.218	891.44	0.0002	P	7.6
3	☐	50.000	51.415	32522.45	0.0082	P	1.5
4	☐	125.000	125.847	79499.69	0.0201	P	0.5
5	☐	250.000	249.807	161062.12	0.0398	P	1.6
6	☐	500.000	495.458	323611.96	0.0789	P	2.1
7	☐	1000.000	1002.142	641213.42	0.1596	P	1.3
8	☐			622.95	0.0002	P	10.1

$$y = 1.5919\text{E-}004 * x + 4.0494\text{E-}005$$

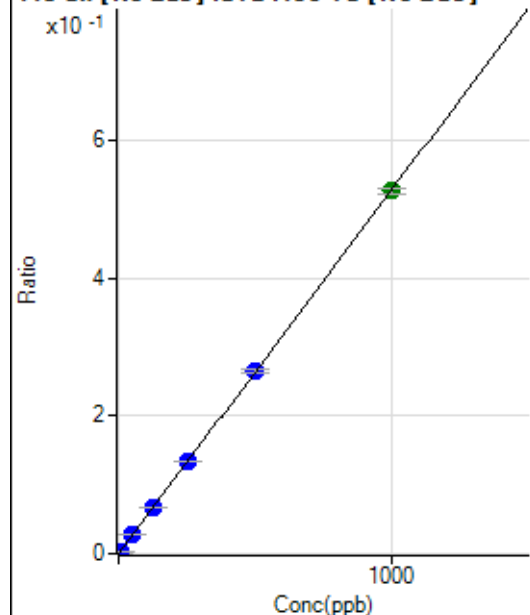
$$R = 1.0000$$

$$DL = 0.045$$

$$BEC = 0.2544$$

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	213.90	0.0001	P	25.8
2	☐	5.000	4.933	10117.89	0.0027	P	3.5
3	☐	50.000	50.923	106473.83	0.0269	P	1.2
4	☐	125.000	126.054	263651.92	0.0666	P	1.2
5	☐	250.000	253.604	541640.95	0.1339	P	1.5
6	☐	500.000	501.824	1086305.38	0.2649	P	1.7
7	☐	1000.000	998.009	2116523.03	0.5267	A	1.7
8	☐			2297.49	0.0006	P	17.3

$$y = 5.2770\text{E-}004 * x + 5.5490\text{E-}005$$

$$R = 1.0000$$

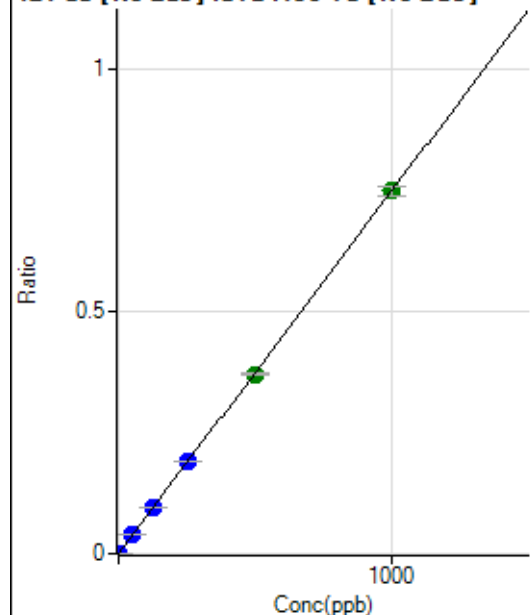
$$DL = 0.08151$$

$$BEC = 0.1052$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	25.00	0.0000	P	57.2
2	☐	2.000	1.944	5556.81	0.0015	P	4.5
3	☐	50.000	51.180	151268.74	0.0383	P	0.8
4	☐	125.000	126.100	373252.72	0.0942	P	0.9
5	☐	250.000	254.504	769549.46	0.1902	P	0.8
6	☐	500.000	495.481	1518637.07	0.3703	A	1.8
7	☐	1000.000	1000.937	3005819.92	0.7480	A	2.4
8	☐			3670.05	0.0009	P	2.2

$$y = 7.4733\text{E-}004 * x + 6.4821\text{E-}006$$

$$R = 1.0000$$

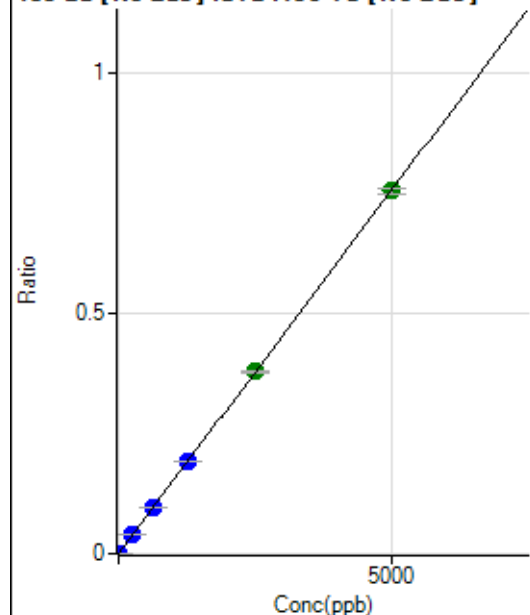
$$DL = 0.01488$$

$$BEC = 0.008674$$

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	41.67	0.0000	P	22.2
2	☐	10.000	9.526	5520.73	0.0015	P	3.7
3	☐	250.000	256.809	153513.88	0.0388	P	0.5
4	☐	625.000	629.308	376716.13	0.0951	P	0.8
5	☐	1250.000	1267.475	775074.10	0.1916	P	0.7
6	☐	2500.000	2504.491	1552541.60	0.3785	A	1.2
7	☐	5000.000	4992.508	3032126.17	0.7545	A	1.5
8	☐			6854.70	0.0017	P	3.9

$$y = 1.5113\text{E-}004 * x + 1.0898\text{E-}005$$

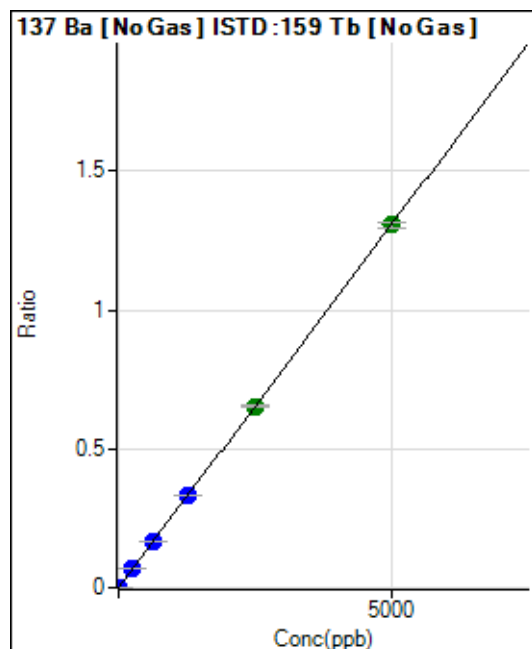
$$R = 1.0000$$

$$DL = 0.04795$$

$$BEC = 0.07211$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	44.44	0.0000	P	23.9
2	☐	10.000	10.066	10065.12	0.0026	P	3.7
3	☐	250.000	258.605	267511.30	0.0677	P	0.8
4	☐	625.000	630.806	653489.40	0.1650	P	0.5
5	☐	1250.000	1272.502	1346640.05	0.3329	P	1.1
6	☐	2500.000	2492.752	2674237.71	0.6520	A	1.3
7	☐	5000.000	4996.842	5252027.81	1.3070	A	1.8
8	☐			12083.47	0.0030	P	8.0

$$y = 2.6156E-004 * x + 1.1632E-005$$

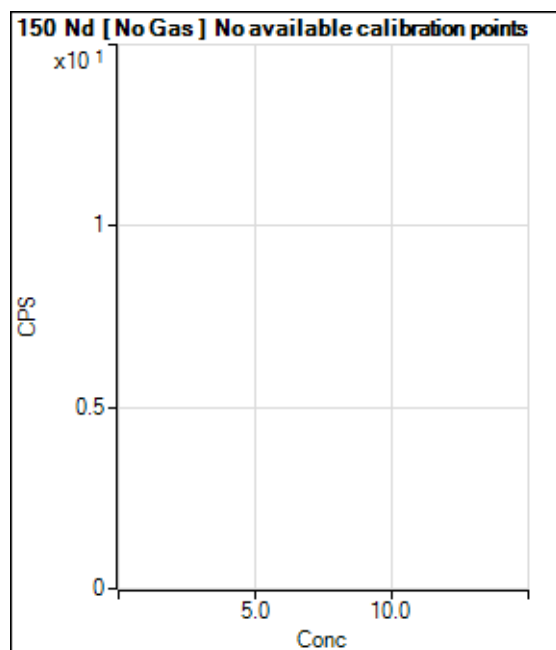
$$R = 1.0000$$

$$DL = 0.0319$$

$$BEC = 0.04447$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			11.11		P	91.7
3	☐			11.11		P	34.6
4	☐			15.55		P	107.9
5	☐			44.45		P	45.8
6	☐			53.33		P	NaN
7	☐			128.89		P	14.9
8	☐			24.45		P	15.8

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			4.44		P	43.4
4	☐			5.55		P	124.9
5	☐			5.55		P	124.9
6	☐			8.89		P	57.3
7	☐			12.22		P	41.7
8	☐			6.67		P	50.0

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.0
2	☐			8.33		P	0.0
3	☐			22.22		P	21.6
4	☐			19.44		P	65.5
5	☐			33.33		P	66.1
6	☐			41.67		P	52.9
7	☐			72.22		P	29.0
8	☐			180.56		P	9.6

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			2.22		P	86.6
3	☐			2.22		P	86.6
4	☐			8.89		P	57.3
5	☐			10.00		P	57.8
6	☐			13.34		P	43.3
7	☐			24.44		P	61.5
8	☐			72.22		P	20.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.67		P	52.9
2	☐			33.34		P	43.3
3	☐			58.33		P	57.1
4	☐			38.89		P	68.9
5	☐			52.78		P	24.1
6	☐			61.11		P	43.8
7	☐			94.45		P	10.2
8	☐			252.79		P	14.9

160 Gd [He] No available calibration points

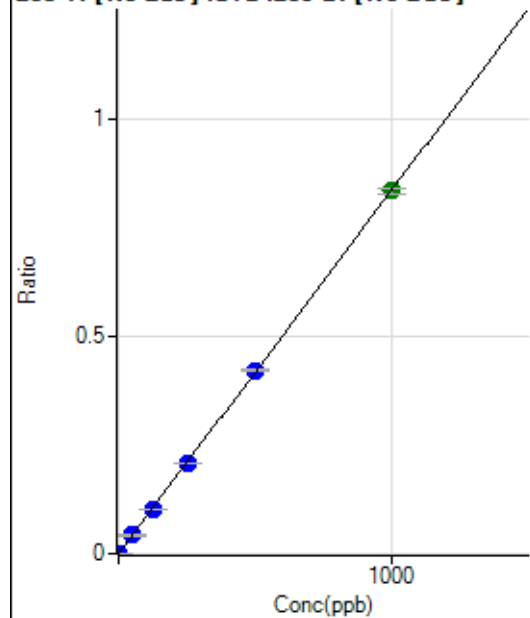
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	24.7
2	☐			10.00		P	33.3
3	☐			13.33		P	50.0
4	☐			12.22		P	63.0
5	☐			16.67		P	40.0
6	☐			21.11		P	71.2
7	☐			30.00		P	19.2
8	☐			111.11		P	4.6

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.44		P	49.5
2	☐			22.22		P	94.4
3	☐			13.89		P	124.9
4	☐			30.55		P	15.7
5	☐			16.67		P	NaN
6	☐			33.33		P	50.0
7	☐			44.44		P	39.0
8	☐			47.22		P	27.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.6
2	☐			7.78		P	65.5
3	☐			13.33		P	43.3
4	☐			14.44		P	13.4
5	☐			10.00		P	88.2
6	☐			10.00		P	33.3
7	☐			7.78		P	65.5
8	☐			15.56		P	61.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25.00	0.0000	P	115.0
2	☐	1.000	0.928	1664.05	0.0008	P	6.9
3	☐	50.000	50.396	91535.60	0.0422	P	0.8
4	☐	125.000	123.621	225291.90	0.1034	P	0.8
5	☐	250.000	247.895	462426.12	0.2074	P	1.0
6	☐	500.000	503.561	932281.86	0.4213	P	1.1
7	☐	1000.000	998.899	1826847.11	0.8358	A	1.5
8	☐			1950.21	0.0009	P	16.4

$$y = 8.3666E-004 * x + 1.1775E-005$$

$$R = 1.0000$$

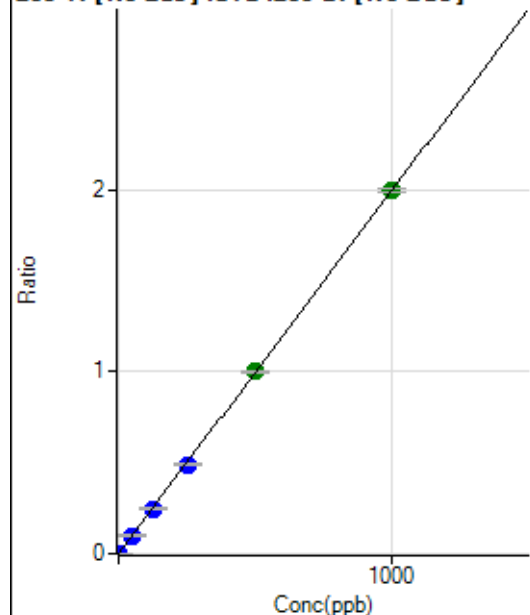
$$DL = 0.04857$$

$$BEC = 0.01407$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	58.34	0.0000	P	27.3
2	☐	1.000	0.923	3947.94	0.0019	P	2.2
3	☐	50.000	50.225	217444.74	0.1002	P	2.8
4	☐	125.000	123.993	538678.40	0.2473	P	1.4
5	☐	250.000	244.610	1087678.81	0.4879	P	2.2
6	☐	500.000	502.631	2218398.51	1.0025	A	1.0
7	☐	1000.000	1000.147	4360739.51	1.9949	A	1.2
8	☐			4720.43	0.0023	P	7.5

$$y = 0.0020 * x + 2.7512E-005$$

$$R = 1.0000$$

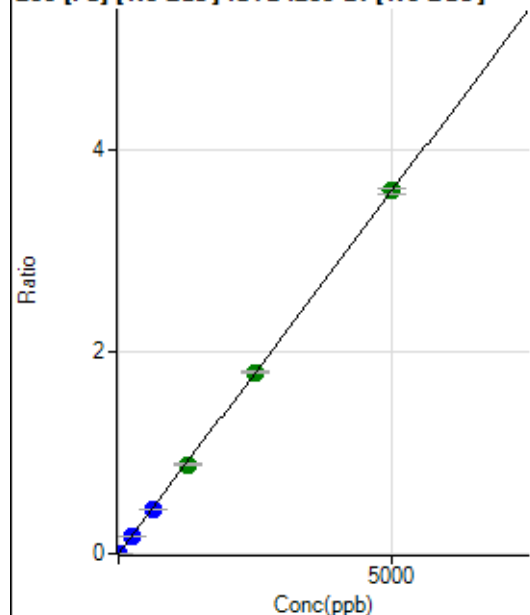
$$DL = 0.01129$$

$$BEC = 0.01379$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	198.15	0.0001	P	7.5
2	☐	1.000	0.936	1618.65	0.0008	P	1.6
3	☐	250.000	249.013	388699.39	0.1791	P	2.0
4	☐	625.000	609.281	954187.53	0.4381	P	0.4
5	☐	1250.000	1230.171	1971739.16	0.8845	A	2.1
6	☐	2500.000	2500.058	3977327.00	1.7975	A	1.0
7	☐	5000.000	5006.942	7868733.34	3.5997	A	1.3
8	☐			10641.59	0.0052	P	6.7

$$y = 7.1893E-004 * x + 9.3776E-005$$

$$R = 1.0000$$

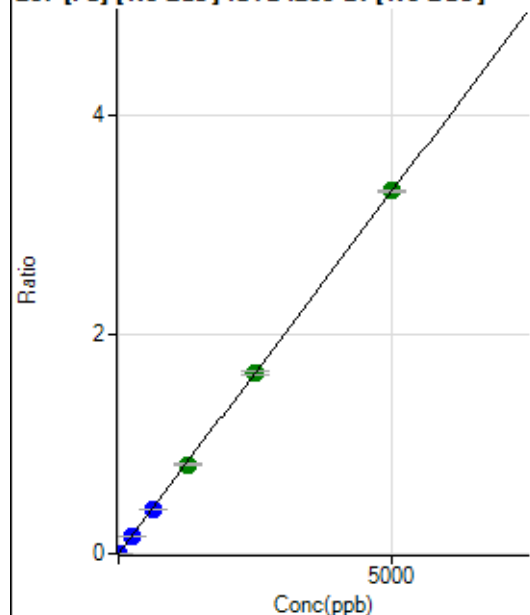
$$DL = 0.02918$$

$$BEC = 0.1304$$

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	237.04	0.0001	P	5.2
2	☐	1.000	0.884	1468.63	0.0007	P	4.7
3	☐	250.000	245.270	351352.30	0.1619	P	1.5
4	☐	625.000	600.050	862277.47	0.3959	P	0.8
5	☐	1250.000	1233.873	1814766.14	0.8140	A	1.2
6	☐	2500.000	2491.714	3637169.55	1.6437	A	1.5
7	☐	5000.000	5011.530	7227164.46	3.3059	A	0.4
8	☐			9546.27	0.0046	P	8.9

$$y = 6.5963\text{E-}004 * x + 1.1202\text{E-}004$$

$$R = 1.0000$$

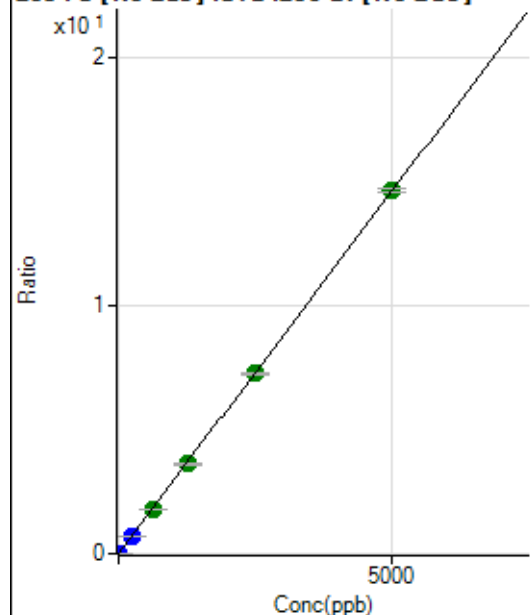
$$DL = 0.02651$$

$$BEC = 0.1698$$

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	912.99	0.0004	P	8.7
2	☐	1.000	0.913	6543.36	0.0031	P	3.2
3	☐	250.000	248.638	1577609.55	0.7270	P	1.5
4	☐	625.000	616.548	3924470.50	1.8020	A	0.6
5	☐	1250.000	1240.979	8085036.36	3.6266	A	1.3
6	☐	2500.000	2484.370	16064118.79	7.2598	A	1.0
7	☐	5000.000	5011.195	32010503.15	14.6432	A	1.0
8	☐			42611.22	0.0207	P	7.3

$$y = 0.0029 * x + 4.3155\text{E-}004$$

$$R = 1.0000$$

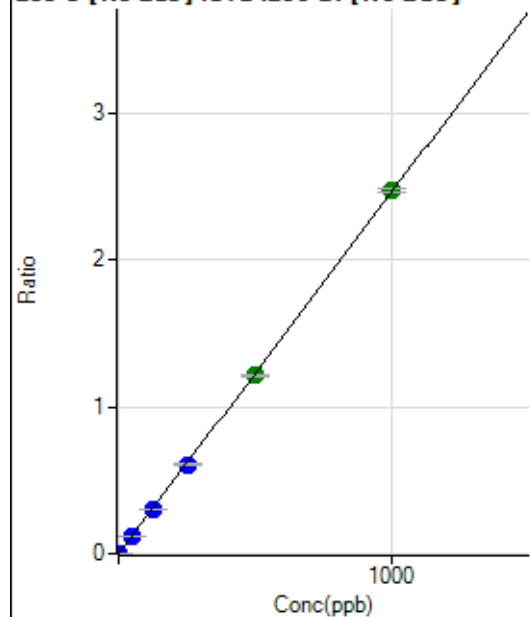
$$DL = 0.03838$$

$$BEC = 0.1477$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2.78	0.0000	P	173.2
2	☐	1.000	0.899	4675.99	0.0022	P	5.8
3	☐	50.000	49.468	264196.75	0.1217	P	0.7
4	☐	125.000	121.260	649853.18	0.2984	P	1.4
5	☐	250.000	246.414	1351757.76	0.6064	P	2.0
6	☐	500.000	494.304	2691453.34	1.2163	A	1.1
7	☐	1000.000	1004.239	5402044.65	2.4711	A	1.0
8	☐			2464.20	0.0012	P	13.1

$$y = 0.0025 * x + 1.3049E-006$$

$$R = 1.0000$$

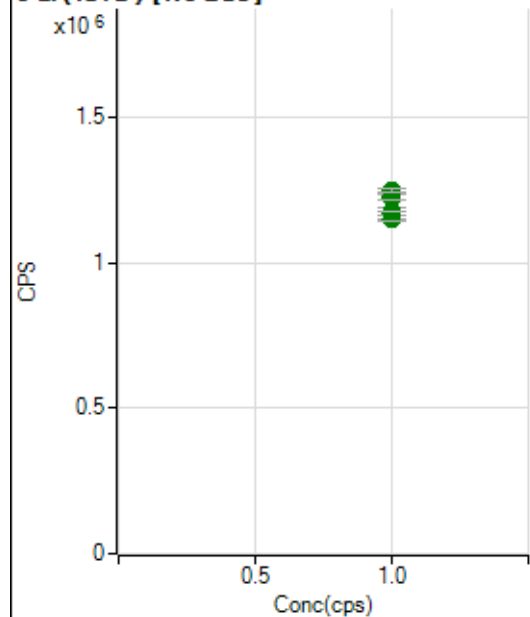
$$DL = 0.002756$$

$$BEC = 0.0005303$$

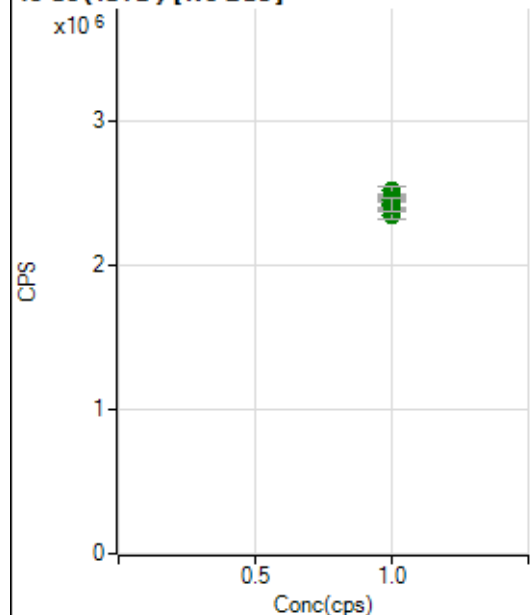
Weight: <None>

Min Conc: 0

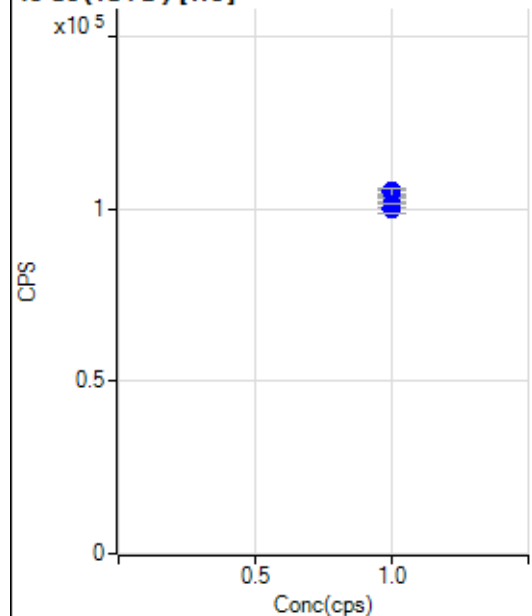
6 Li (ISTD) [No Gas]



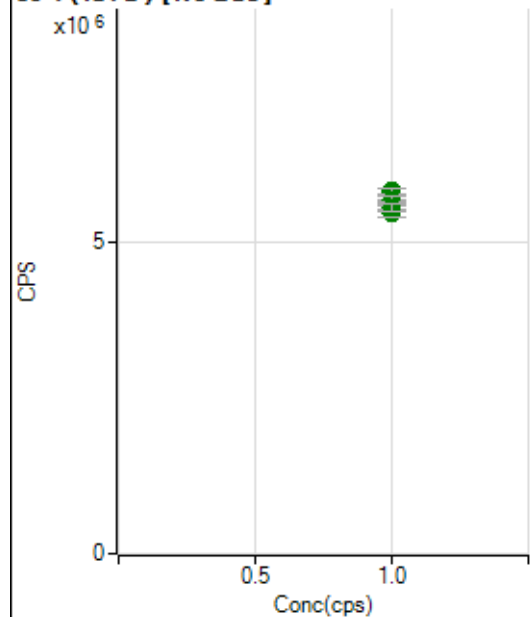
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1169954.37		A	3.2
2	☐	1.000		1150604.92		A	1.8
3	☐	1.000		1176761.42		A	2.0
4	☐	1.000		1176713.74		A	0.3
5	☐	1.000		1225010.16		A	2.0
6	☐	1.000		1241325.39		A	0.4
7	☐	1.000		1226266.10		A	1.8
8	☐	1.000		1245954.03		A	1.0

45 Sc (ISTD) [No Gas]

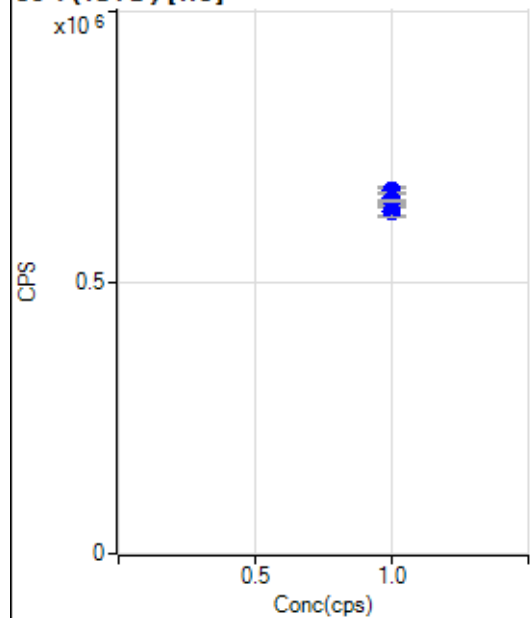
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2425702.36		A	3.0
2	☐	1.000		2356179.10		A	2.3
3	☐	1.000		2415761.98		A	2.4
4	☐	1.000		2421950.69		A	2.0
5	☐	1.000		2492756.63		A	0.2
6	☐	1.000		2520470.60		A	2.3
7	☐	1.000		2461538.19		A	1.3
8	☐	1.000		2422733.97		A	4.0

45 Sc (ISTD) [He]

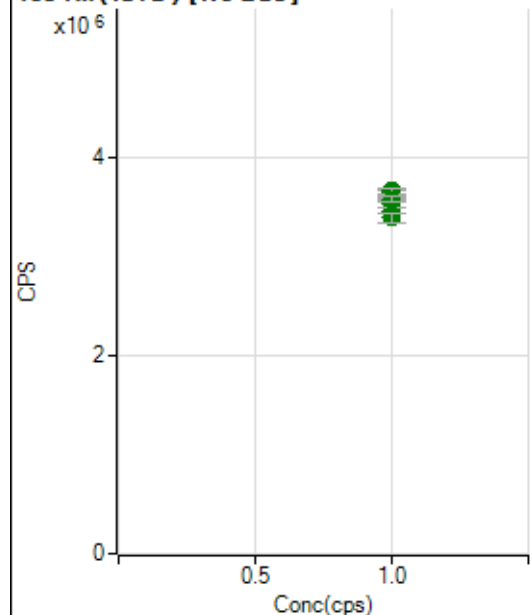
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		99761.17		P	1.7
2	☐	1.000		100467.20		P	2.9
3	☐	1.000		103271.44		P	0.1
4	☐	1.000		103004.25		P	1.9
5	☐	1.000		104825.81		P	1.1
6	☐	1.000		105244.42		P	1.3
7	☐	1.000		104655.93		P	2.4
8	☐	1.000		101504.28		P	0.5

89 Y (ISTD) [No Gas]

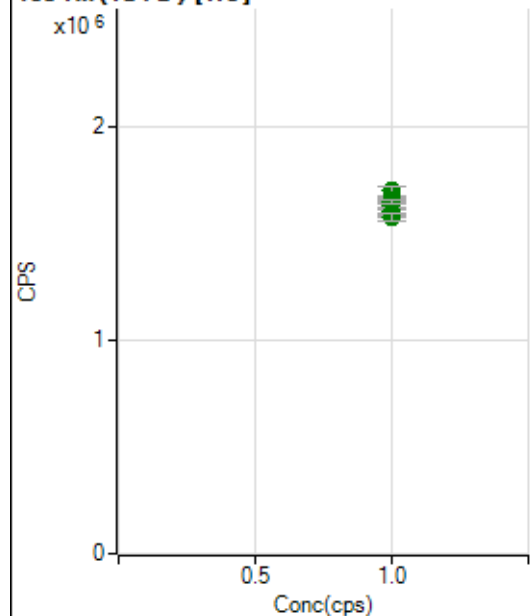
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5551608.18		A	2.9
2	☐	1.000		5468942.69		A	2.3
3	☐	1.000		5615741.24		A	1.9
4	☐	1.000		5655615.33		A	2.2
5	☐	1.000		5800224.64		A	1.5
6	☐	1.000		5814556.65		A	1.9
7	☐	1.000		5681179.08		A	1.5
8	☐	1.000		5551619.01		A	2.2

89 Y (ISTD) [He]

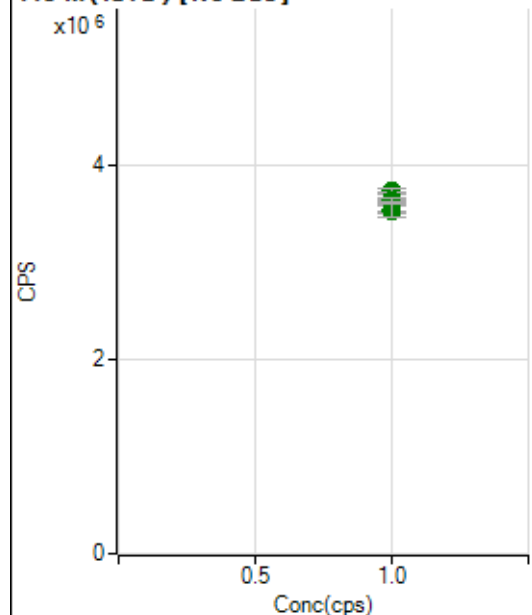
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		632231.47		P	2.2
2	☐	1.000		631866.51		P	2.7
3	☐	1.000		644473.87		P	0.8
4	☐	1.000		656409.23		P	2.0
5	☐	1.000		670121.80		P	2.1
6	☐	1.000		669837.07		P	1.3
7	☐	1.000		666700.82		P	0.8
8	☐	1.000		652435.90		P	0.3

103 Rh (ISTD) [No Gas]

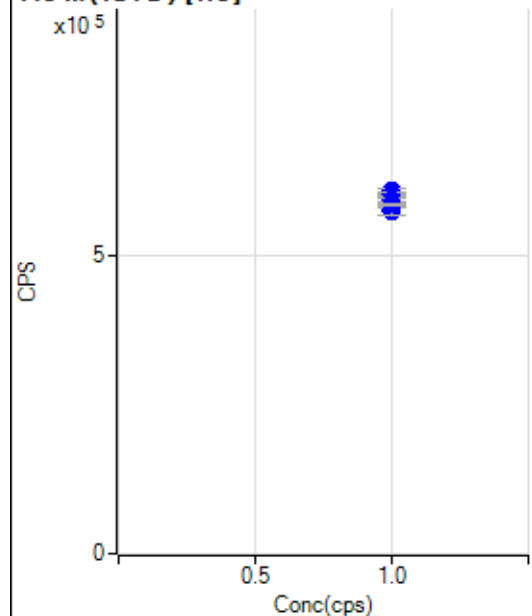
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3536184.85		A	2.9
2	☐	1.000		3462411.88		A	1.5
3	☐	1.000		3567064.36		A	0.5
4	☐	1.000		3563141.18		A	0.9
5	☐	1.000		3645471.65		A	1.2
6	☐	1.000		3662158.98		A	1.3
7	☐	1.000		3573899.34		A	1.5
8	☐	1.000		3389805.78		A	3.0

103 Rh (ISTD) [He]

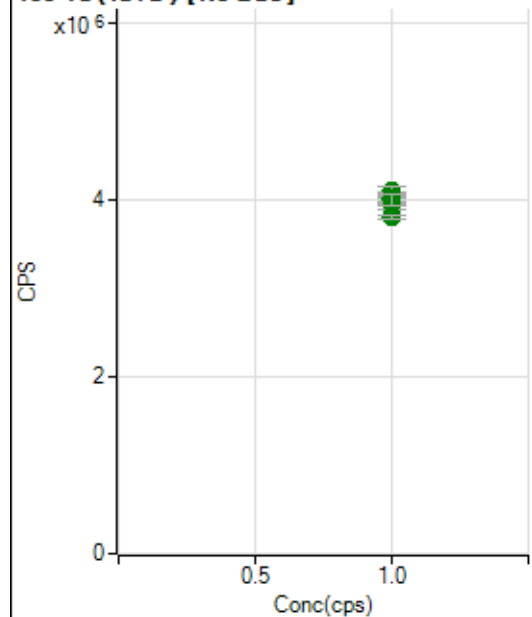
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1592586.61		A	2.3
2	☐	1.000		1603608.31		A	1.7
3	☐	1.000		1632424.30		A	1.0
4	☐	1.000		1646868.57		A	3.0
5	☐	1.000		1699936.40		A	2.5
6	☐	1.000		1653659.00		A	0.2
7	☐	1.000		1650617.13		A	1.2
8	☐	1.000		1575818.94		A	1.9

115 In (ISTD) [No Gas]

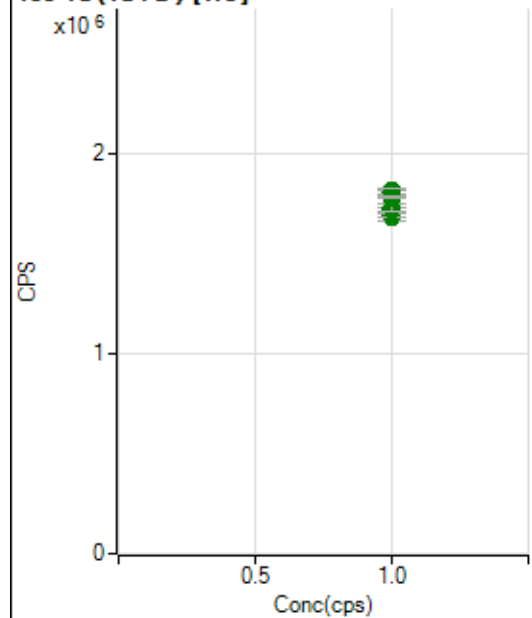
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3580465.28		A	3.3
2	☐	1.000		3548890.37		A	2.3
3	☐	1.000		3621257.69		A	1.1
4	☐	1.000		3633452.10		A	1.0
5	☐	1.000		3721366.67		A	0.5
6	☐	1.000		3736128.55		A	1.0
7	☐	1.000		3635891.96		A	1.2
8	☐	1.000		3534011.20		A	4.4

115 In (ISTD) [He]

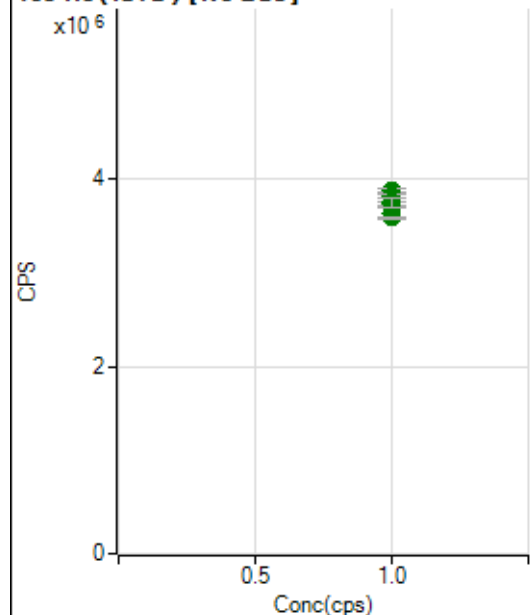
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		576317.33		P	2.4
2	☐	1.000		578923.93		P	3.1
3	☐	1.000		586879.63		P	0.3
4	☐	1.000		595899.78		P	2.0
5	☐	1.000		609684.17		P	1.6
6	☐	1.000		604418.80		P	0.9
7	☐	1.000		595271.50		P	0.9
8	☐	1.000		586741.96		P	0.3

159 Tb (ISTD) [No Gas]

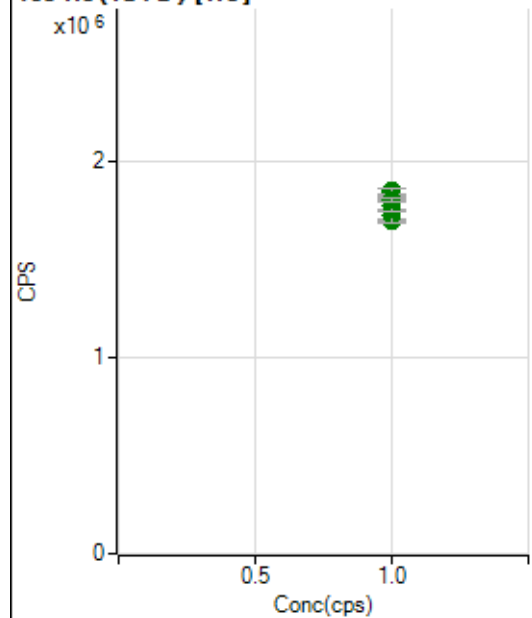
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3837290.29		A	2.7
2	☐	1.000		3806448.18		A	1.1
3	☐	1.000		3954170.81		A	0.4
4	☐	1.000		3960445.64		A	0.7
5	☐	1.000		4046147.41		A	1.5
6	☐	1.000		4102088.45		A	2.0
7	☐	1.000		4018962.75		A	1.6
8	☐	1.000		4000900.64		A	3.1

159 Tb (ISTD) [He]

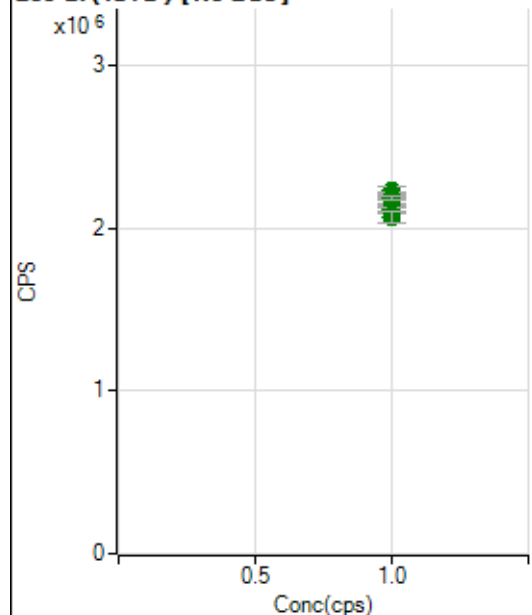
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1676632.30		A	2.2
2	☐	1.000		1685533.39		A	1.2
3	☐	1.000		1716496.45		A	1.8
4	☐	1.000		1728392.25		A	2.2
5	☐	1.000		1811644.00		A	1.7
6	☐	1.000		1795593.39		A	1.7
7	☐	1.000		1808567.30		A	1.6
8	☐	1.000		1780958.48		A	1.0

165 Ho (ISTD) [No Gas]

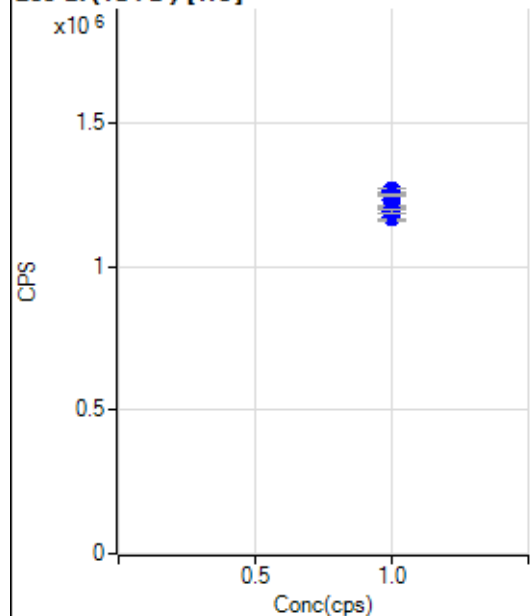
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3634628.69		A	3.8
2	☐	1.000		3581679.03		A	0.8
3	☐	1.000		3734535.20		A	1.6
4	☐	1.000		3728024.00		A	1.1
5	☐	1.000		3823464.06		A	1.5
6	☐	1.000		3871033.81		A	1.8
7	☐	1.000		3815703.73		A	1.5
8	☐	1.000		3751104.68		A	2.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1696603.84		A	0.8
2	☐	1.000		1721512.56		A	3.8
3	☐	1.000		1748776.78		A	0.6
4	☐	1.000		1776274.06		A	3.3
5	☐	1.000		1809217.44		A	1.5
6	☐	1.000		1837268.12		A	2.1
7	☐	1.000		1847442.89		A	1.5
8	☐	1.000		1801748.81		A	1.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2114417.14		A	2.4
2	☐	1.000		2112404.13		A	1.3
3	☐	1.000		2170449.50		A	1.3
4	☐	1.000		2177904.34		A	0.7
5	☐	1.000		2229732.38		A	2.2
6	☐	1.000		2212808.18		A	0.4
7	☐	1.000		2186203.79		A	1.6
8	☐	1.000		2064994.02		A	3.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1175183.33		P	2.2
2	☐	1.000		1182929.94		P	3.0
3	☐	1.000		1209282.39		P	0.9
4	☐	1.000		1231922.93		P	2.7
5	☐	1.000		1264400.49		P	1.2
6	☐	1.000		1259306.58		P	2.3
7	☐	1.000		1247884.55		P	0.4
8	☐	1.000		1192463.27		P	0.6

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8120420 MS.b
Acq. Date-Time 2020-12-04 12:02:14
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		2846	28463.18			2.080	5.000
24		35937	359368.99			1.700	5.000
25		4867	48669.58			1.672	5.000
26		5440	54396.47			1.723	5.000
59		19331	193310.41			1.683	5.000
113		2946	29461.13			1.216	5.000
115		9643	96427.72			2.576	5.000
206		3098	30981.07			1.150	5.000
207		2589	25887.78			1.133	5.000
208		6363	63625.80			0.848	5.000
220		1	9.30			35.378	

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

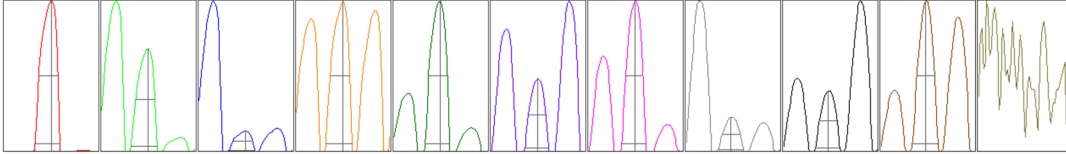
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2787	2856	2929	2869	2791
24	35210	36120	36803	36031	35521
25	4795	4879	4992	4876	4793
26	5327	5469	5571	5455	5376
59	18981	19456	19814	19298	19106
113	2927	2962	3002	2917	2922
115	9808	9850	9802	9448	9306
206	3057	3105	3152	3100	3077
207	2558	2614	2619	2594	2559
208	6294	6399	6411	6394	6315

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4998.93	9.05	8.90 - 9.10	
24	62963.31	24.00	23.90 - 24.10	
25	8251.89	25.00	24.90 - 25.10	
26	9357.72	26.00	25.90 - 26.10	
59	34844.25	59.00	58.90 - 59.10	
113	5664.69	113.00	112.90 - 113.10	
115	18552.23	115.00	114.90 - 115.10	
206	5768.45	205.95	205.90 - 206.10	
207	4796.06	206.95	206.90 - 207.10	
208	11972.22	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.780	0.900	
24	0.61	0.827	0.900	
25	0.62	0.792	0.900	
26	0.62	0.830	0.900	
59	0.59	0.775	0.900	
113	0.54	0.738	0.900	
115	0.53	0.767	0.900	
206	0.56	0.800	0.900	
207	0.56	0.766	0.900	
208	0.55	0.815	0.900	
220	0.22			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

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

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.8 V	Deflect	14.8 V
Extract 2	-240.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.6 mm
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EM

Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1331 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4593	45934.54			1.566	
89		10474	104744.03			1.960	
205		7878	78784.79			1.956	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4614	4544	4505	4691	4613
89	10458	10440	10193	10768	10513
205	7854	7824	7691	8114	7909

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.8 V	Deflect	4.2 V
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US EPA Tune Check Report

Extract 2	-240.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	122	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	0.8 mm	Torch V	-0.6 mm		
EM					
Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1331 V