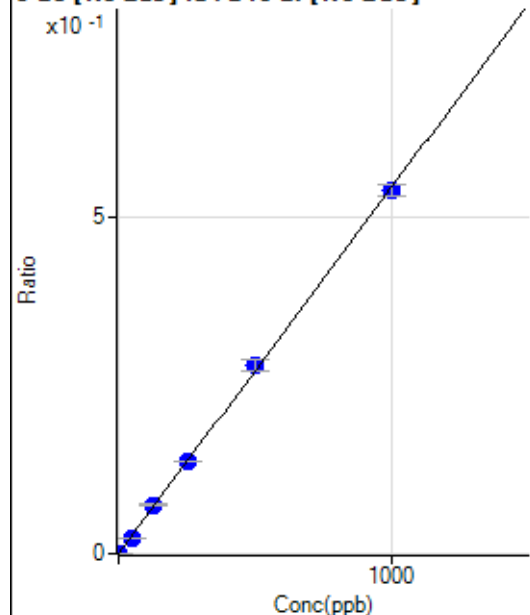


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8011921MS1.b\
Analysis File: P8011921MS1.batch.bin
DA Date-Time: 2021-01-25 00:15:39
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-01-19 14:42:03
2	004CALS.d	S02	2021-01-19 14:45:09
3	005CALS.d	S03	2021-01-19 14:48:14
4	006CALS.d	S04	2021-01-19 14:51:20
5	007CALS.d	S05	2021-01-19 14:54:19
6	008CALS.d	S06	2021-01-19 14:57:20
7	009CALS.d	S07	2021-01-19 15:00:18
8	010CALS.d	S08	2021-01-19 15:03:18

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	42.78	0.0000	P	25.0
2	☐	1.000	0.945	805.28	0.0005	P	5.7
3	☐	50.000	44.088	35954.79	0.0241	P	1.0
4	☐	125.000	132.539	103126.08	0.0723	P	4.7
5	☐	250.000	253.418	201992.88	0.1381	P	0.7
6	☐	500.000	515.734	405364.10	0.2811	P	5.7
7	☐	1000.000	990.632	838972.37	0.5398	P	3.2
8	☐			701.93	0.0005	P	8.1

$$y = 5.4492\text{E-}004 * x + 2.8048\text{E-}005$$

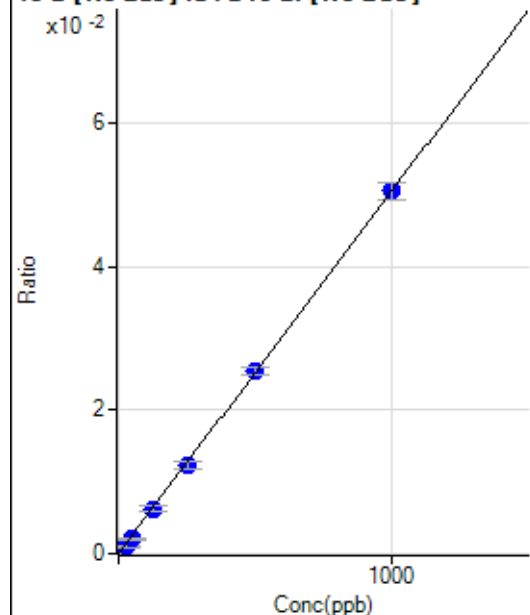
$$R = 0.9997$$

$$DL = 0.03854$$

$$BEC = 0.05147$$

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	51.32	0.0000	P	6.7
2	☐	25.000	18.553	1438.46	0.0010	P	12.6
3	☐	50.000	41.479	3178.39	0.0021	P	13.4
4	☐	125.000	123.352	8914.30	0.0063	P	13.4
5	☐	250.000	243.218	18000.15	0.0123	P	8.2
6	☐	500.000	502.117	36709.15	0.0254	P	4.4
7	☐	1000.000	1001.430	78702.51	0.0506	P	4.8
8	☐			12364.11	0.0081	P	6.9

$$y = 5.0457\text{E-}005 * x + 3.3651\text{E-}005$$

$$R = 1.0000$$

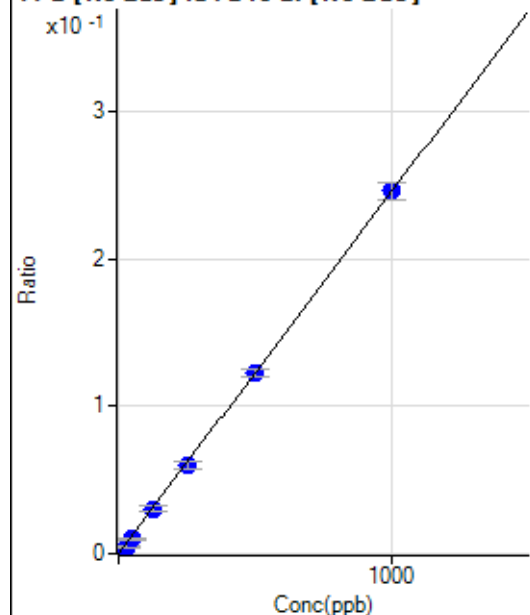
$$DL = 0.1344$$

$$BEC = 0.6669$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	239.95	0.0002	P	5.7
2	☐	25.000	17.819	6712.23	0.0045	P	9.2
3	☐	50.000	41.389	15392.40	0.0103	P	12.9
4	☐	125.000	122.858	43125.26	0.0303	P	13.1
5	☐	250.000	244.222	87796.05	0.0600	P	8.8
6	☐	500.000	498.636	177058.84	0.1224	P	4.1
7	☐	1000.000	1003.004	382915.11	0.2460	P	5.1
8	☐			58901.19	0.0388	P	5.9

$$y = 2.4511\text{E-}004 * x + 1.5732\text{E-}004$$

$$R = 1.0000$$

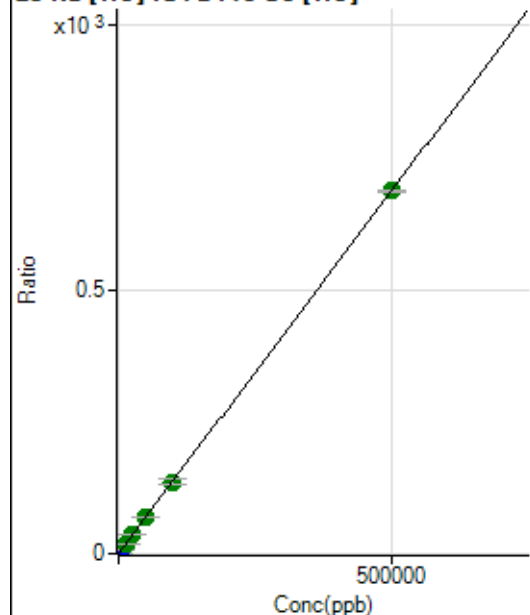
$$DL = 0.1105$$

$$BEC = 0.6418$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	33942.81	0.3017	P	0.6
2	☐	500.000	421.024	100886.77	0.8801	P	1.2
3	☐	5000.000	4515.870	739367.79	6.5051	P	0.5
4	☐	12500.000	13373.978	2072849.96	18.6733	A	0.8
5	☐	25000.000	25367.801	3952655.25	35.1491	A	0.9
6	☐	50000.000	50706.419	7914759.64	69.9564	A	1.0
7	☐	100000.00	98982.023	16597433.36	136.2719	A	6.3
8	☐	500000.00	500097.63	75197349.60	687.2786	A	0.8

$$y = 0.0014 * x + 0.3017$$

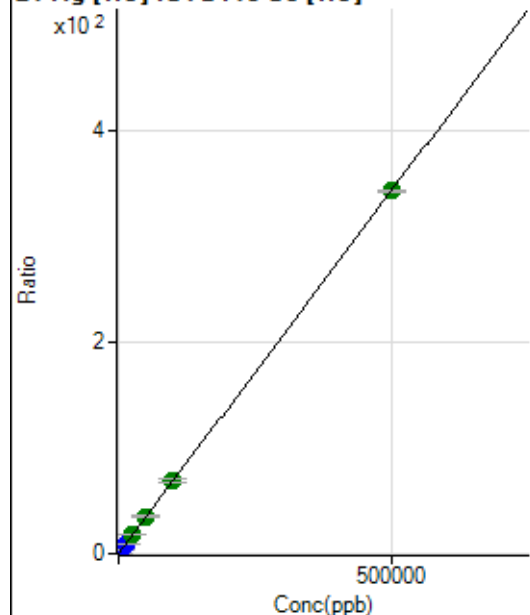
$$R = 1.0000$$

$$DL = 4.023$$

$$BEC = 219.6$$

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	700.04	0.0062	P	8.4
2	☐	500.000	431.007	34689.11	0.3026	P	0.6
3	☐	5000.000	4662.329	365072.51	3.2120	P	0.2
4	☐	12500.000	13869.702	1059334.56	9.5429	P	0.6
5	☐	25000.000	26004.479	2011398.20	17.8866	A	1.4
6	☐	50000.000	51483.805	4005649.09	35.4059	A	1.0
7	☐	100000.00	100143.76	8387240.38	68.8640	A	6.4
8	☐	500000.00	499741.84	37597624.80	343.6233	A	0.5

$$y = 6.8759E-004 * x + 0.0062$$

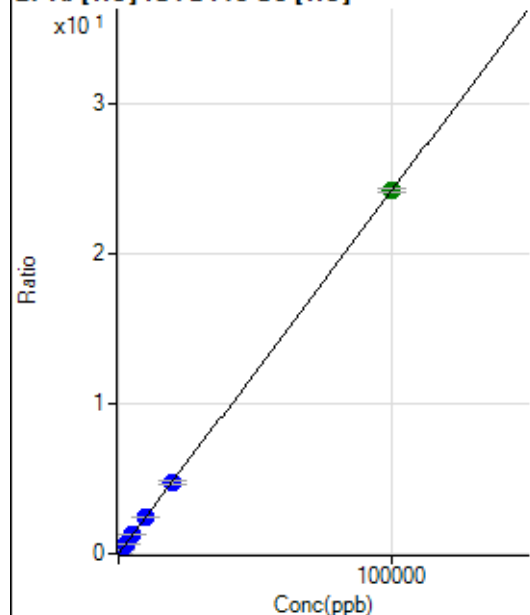
$$R = 1.0000$$

$$DL = 2.268$$

$$BEC = 9.05$$

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	359.96	0.0032	P	4.1
2	☐	20.000	16.431	822.84	0.0072	P	1.4
3	☐	1000.000	909.247	25387.18	0.2234	P	0.7
4	☐	2500.000	2677.921	72334.72	0.6516	P	0.4
5	☐	5000.000	5084.181	138799.71	1.2343	P	0.7
6	☐	10000.000	10212.746	280119.14	2.4761	P	0.6
7	☐	20000.000	19724.184	582185.81	4.7792	P	5.9
8	☐	100000.00	100026.14	2650315.80	24.2233	A	1.1

$$y = 2.4214E-004 * x + 0.0032$$

$$R = 1.0000$$

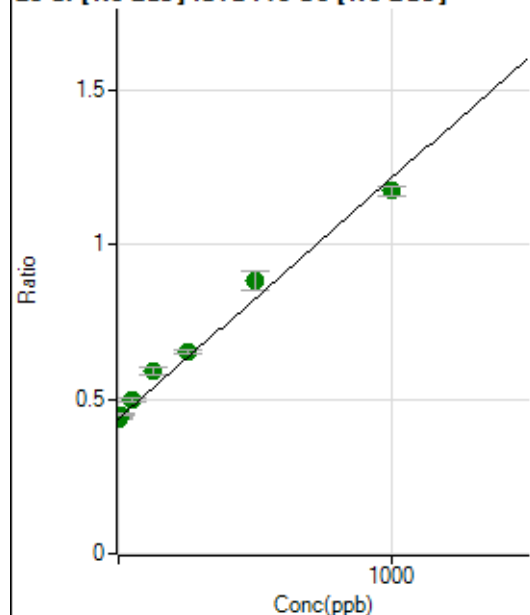
$$DL = 1.644$$

$$BEC = 13.21$$

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	1173806.59	0.4373	A	0.7
2	☐	10.000	16.627	1193756.47	0.4503	A	1.6
3	☐	50.000	76.114	1321574.49	0.4965	A	2.3
4	☐	125.000	197.462	1474329.92	0.5909	A	3.3
5	☐	250.000	275.890	1709440.62	0.6519	A	2.1
6	☐	500.000	573.738	2235882.17	0.8836	A	6.6
7	☐	1000.000	946.229	3289163.05	1.1734	A	3.0
8	☐			1247838.12	0.4841	A	7.2

$$y = 7.7792E-004 * x + 0.4373$$

R = 0.9934

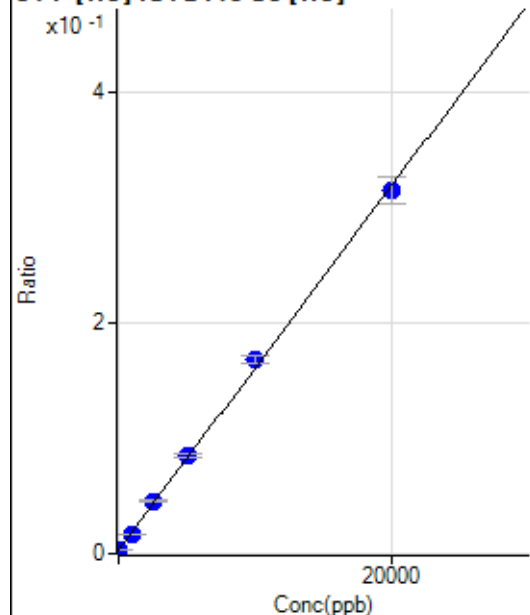
DL = 12.4

BEC = 562.2

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	12.769	386.13	0.0034	P	13.7
2	☐	0.000	-12.769	347.24	0.0030	P	15.4
3	☐	1000.000	847.753	1889.06	0.0166	P	1.0
4	☐	2500.000	2691.897	5078.79	0.0458	P	3.5
5	☐	5000.000	5175.516	9556.17	0.0850	P	3.6
6	☐	10000.000	10437.580	19021.27	0.1681	P	4.2
7	☐	20000.000	19720.956	38320.69	0.3148	P	7.3
8	☐			361.13	0.0033	P	13.1

$$y = 1.5797E-005 * x + 0.0032$$

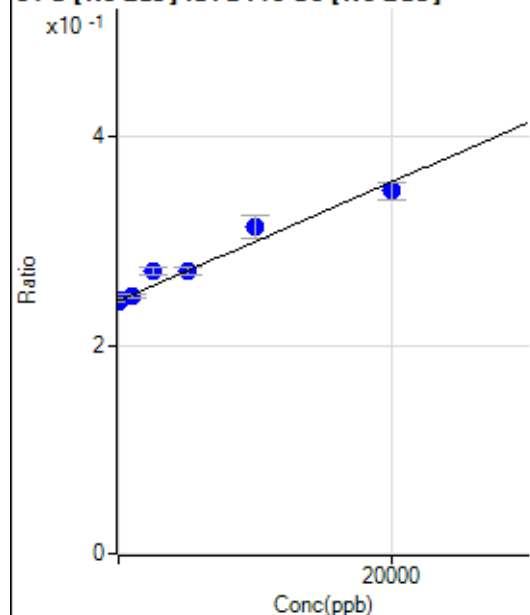
R = 0.9995

DL = 88.87

BEC = 204.4

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	-249.201	648046.11	0.2415	P	1.4
2	☐	0.000	249.201	647697.52	0.2443	P	1.7
3	☐	1000.000	748.303	657812.25	0.2471	P	2.0
4	☐	2500.000	5144.568	679302.55	0.2722	P	2.8
5	☐	5000.000	5029.711	711979.60	0.2716	P	2.7
6	☐	10000.000	12388.137	793245.18	0.3136	P	7.2
7	☐	20000.000	18480.518	976095.96	0.3484	P	4.5
8	☐			595495.97	0.2310	P	7.1

$$y = 5.7088\text{E-}006 * x + 0.2429$$

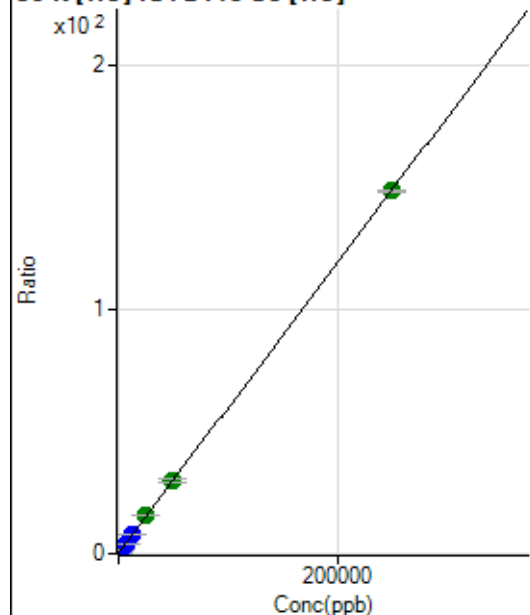
$$R = 0.9786$$

$$DL = 1950$$

$$BEC = 4.254\text{E}+04$$

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	30165.41	0.2681	P	1.4
2	☐	500.000	406.422	58387.88	0.5094	P	1.7
3	☐	2500.000	2275.085	183949.93	1.6184	P	1.1
4	☐	6250.000	6823.420	479301.04	4.3179	P	0.3
5	☐	12500.000	12939.405	893773.08	7.9477	P	0.5
6	☐	25000.000	25860.590	1766696.18	15.6165	A	0.8
7	☐	50000.000	50013.087	3648092.79	29.9511	A	6.2
8	☐	250000.00	249877.45	16256271.54	148.5714	A	0.8

$$y = 5.9350\text{E-}004 * x + 0.2681$$

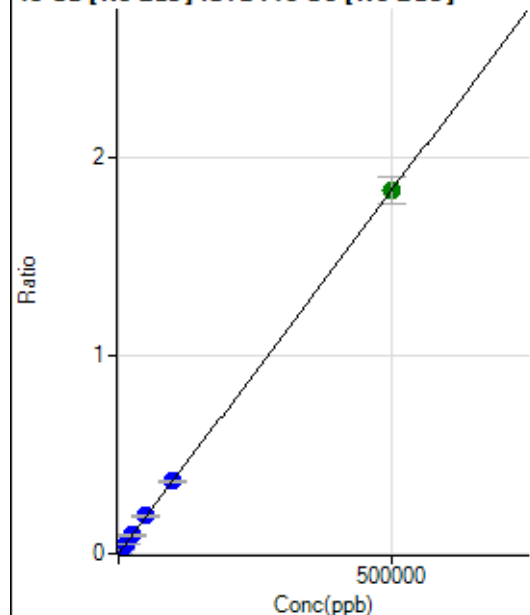
$$R = 1.0000$$

$$DL = 18.64$$

$$BEC = 451.8$$

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	408.71	0.0002	P	10.3
2	☐	500.000	407.746	4372.22	0.0016	P	4.2
3	☐	5000.000	4258.676	42002.54	0.0158	P	2.2
4	☐	12500.000	13278.672	121927.67	0.0489	P	4.4
5	☐	25000.000	25173.078	242587.17	0.0925	P	2.4
6	☐	50000.000	52511.939	487991.15	0.1929	P	6.5
7	☐	100000.00	99457.541	1023171.63	0.3651	P	4.0
8	☐	500000.00	499836.68	4728477.75	1.8344	A	7.4

$$y = 3.6697E-006 * x + 1.5240E-004$$

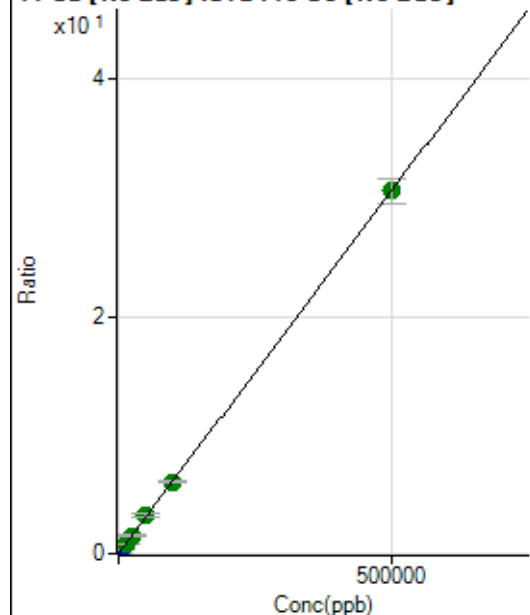
$$R = 1.0000$$

$$DL = 12.82$$

$$BEC = 41.53$$

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	17703.04	0.0066	P	1.8
2	☐	500.000	408.881	83780.13	0.0316	P	0.9
3	☐	5000.000	4328.996	722079.40	0.2713	P	2.1
4	☐	12500.000	13292.459	2043795.01	0.8194	A	4.5
5	☐	25000.000	24992.661	4024113.53	1.5348	A	1.8
6	☐	50000.000	52191.800	8086197.47	3.1979	A	8.1
7	☐	100000.00	99087.484	16994491.44	6.0653	A	4.4
8	☐	500000.00	499950.68	78834199.19	30.5761	A	6.8

$$y = 6.1145E-005 * x + 0.0066$$

$$R = 1.0000$$

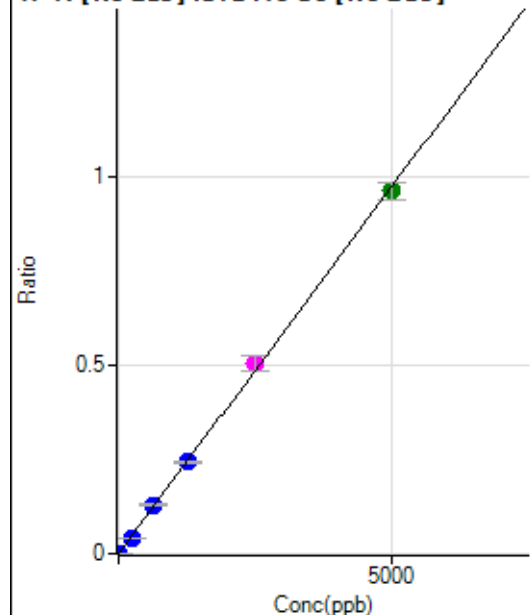
$$DL = 5.979$$

$$BEC = 107.9$$

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	350.01	0.0001	P	16.2
2	☐	5.000	4.235	2525.29	0.0010	P	3.3
3	☐	250.000	213.151	110460.74	0.0415	P	2.4
4	☐	625.000	657.451	318675.28	0.1277	P	3.8
5	☐	1250.000	1254.283	638628.31	0.2436	P	2.2
6	☐	2500.000	2598.428	1276062.70	0.5045	M	7.3
7	☐	5000.000	4947.502	2690781.18	0.9604	A	4.8
8	☐			1952.98	0.0008	P	11.2

$$y = 1.9410\text{E-}004 * x + 1.3031\text{E-}004$$

$$R = 0.9996$$

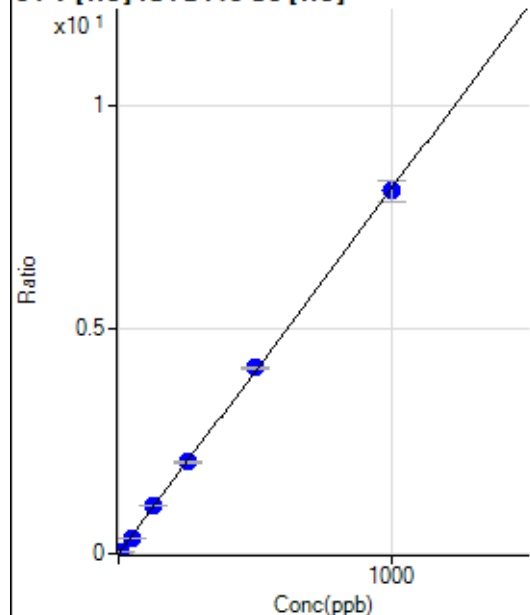
$$DL = 0.3258$$

$$BEC = 0.6714$$

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	7.78	0.0001	P	99.1
2	☐	5.000	4.073	3807.21	0.0332	P	3.1
3	☐	50.000	44.081	40785.68	0.3588	P	1.1
4	☐	125.000	131.942	119211.42	1.0739	P	0.5
5	☐	250.000	251.752	230422.26	2.0491	P	1.2
6	☐	500.000	508.915	468606.49	4.1421	P	0.1
7	☐	1000.000	994.538	985999.35	8.0946	P	6.0
8	☐			432.23	0.0039	P	7.4

$$y = 0.0081 * x + 6.9163\text{E-}005$$

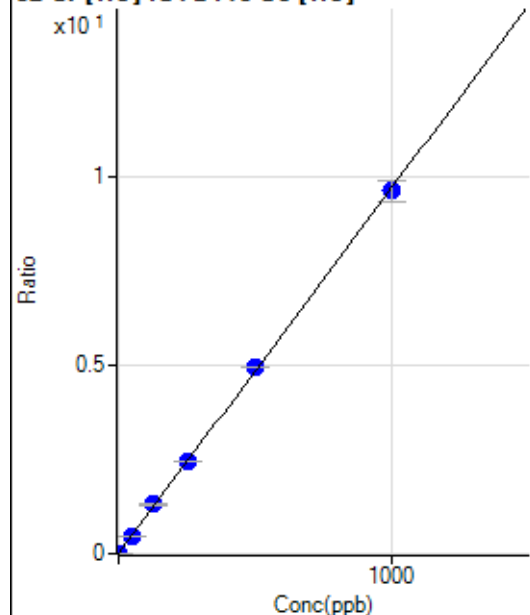
$$R = 0.9999$$

$$DL = 0.02527$$

$$BEC = 0.008498$$

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	630.02	0.0056	P	3.8
2	☐	2.000	1.773	2606.94	0.0227	P	3.1
3	☐	50.000	44.616	49657.97	0.4369	P	1.2
4	☐	125.000	133.817	144213.51	1.2992	P	1.0
5	☐	250.000	253.457	276166.91	2.4558	P	0.3
6	☐	500.000	511.282	559791.99	4.9481	P	0.3
7	☐	1000.000	992.662	1169599.06	9.6016	P	6.0
8	☐			5492.22	0.0502	P	3.3

$$y = 0.0097 * x + 0.0056$$

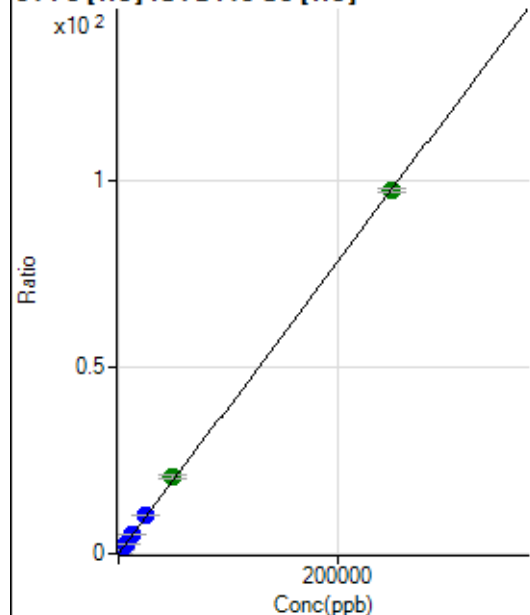
$$R = 0.9998$$

$$DL = 0.06646$$

$$BEC = 0.5794$$

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	420.38	0.0037	P	9.1
2	☐	50.000	43.496	2376.16	0.0207	P	2.7
3	☐	2500.000	2381.200	106140.99	0.9338	P	1.1
4	☐	6250.000	7075.380	307191.07	2.7674	P	0.5
5	☐	12500.000	13391.362	588660.71	5.2344	P	0.5
6	☐	25000.000	26894.833	1188850.17	10.5089	P	0.9
7	☐	50000.000	52441.428	2496771.55	20.4875	A	4.8
8	☐	250000.00	249258.21	10652906.02	97.3648	A	1.0

$$y = 3.9060E-004 * x + 0.0037$$

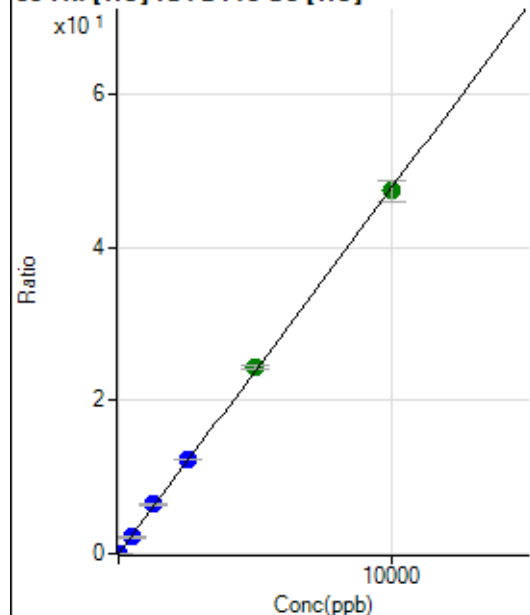
$$R = 0.9999$$

$$DL = 2.603$$

$$BEC = 9.568$$

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	78.89	0.0007	P	9.7
2	☐	1.000	0.933	591.13	0.0052	P	8.6
3	☐	500.000	447.748	243170.92	2.1395	P	0.9
4	☐	1250.000	1343.023	712198.75	6.4159	P	0.2
5	☐	2500.000	2556.892	1373585.62	12.2142	P	0.4
6	☐	5000.000	5099.188	2755584.58	24.3581	A	1.2
7	☐	10000.000	9927.168	5776136.51	47.4199	A	6.1
8	☐			4504.09	0.0412	P	4.6

$$y = 0.0048 * x + 7.0117E-004$$

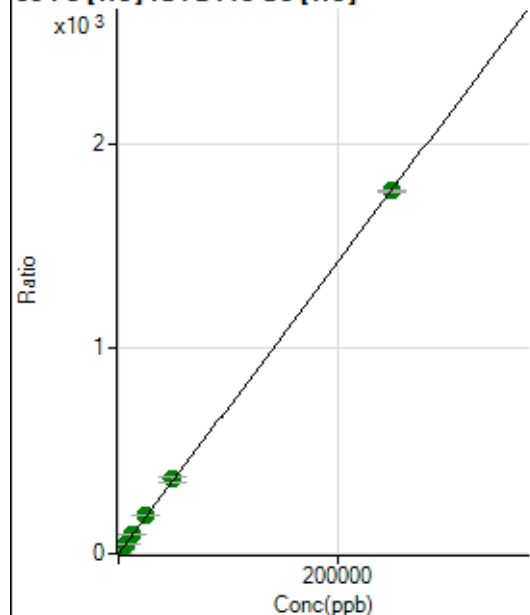
$$R = 0.9998$$

$$DL = 0.04273$$

$$BEC = 0.1468$$

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	2639.18	0.0235	P	9.8
2	☐	50.000	42.831	37478.95	0.3269	P	1.2
3	☐	2500.000	2335.711	1883672.93	16.5728	A	0.9
4	☐	6250.000	6826.364	5371475.06	48.3907	A	0.8
5	☐	12500.000	13028.390	10383520.49	92.3343	A	1.0
6	☐	25000.000	26168.117	20977800.70	185.4340	A	0.8
7	☐	50000.000	51032.674	44036894.04	361.6084	A	6.6
8	☐	250000.00	249637.46	193531724.7	1.768.795	A	0.6

$$y = 0.0071 * x + 0.0235$$

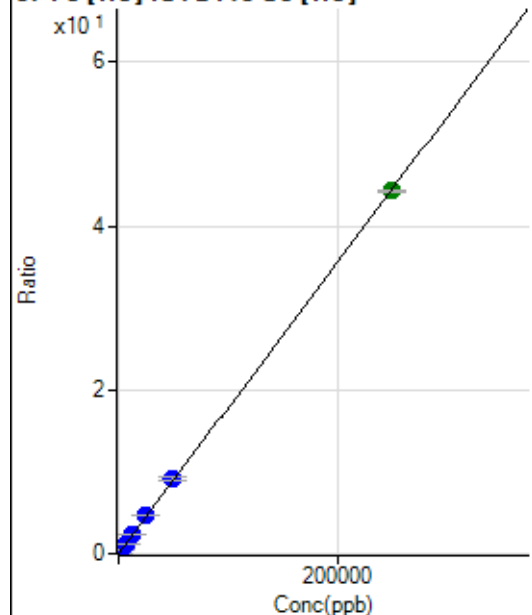
$$R = 1.0000$$

$$DL = 0.978$$

$$BEC = 3.312$$

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	118.52	0.0011	P	9.2
2	☐	50.000	44.132	1018.58	0.0089	P	5.6
3	☐	2500.000	2300.156	46527.97	0.4094	P	0.1
4	☐	6250.000	6943.856	136944.72	1.2337	P	0.8
5	☐	12500.000	13239.352	264412.33	2.3512	P	0.3
6	☐	25000.000	26510.792	532513.75	4.7071	P	0.6
7	☐	50000.000	51475.902	1113260.13	9.1387	P	5.9
8	☐	250000.00	249501.42	4846070.54	44.2910	A	0.8

$$y = 1.7751\text{E-}004 * x + 0.0011$$

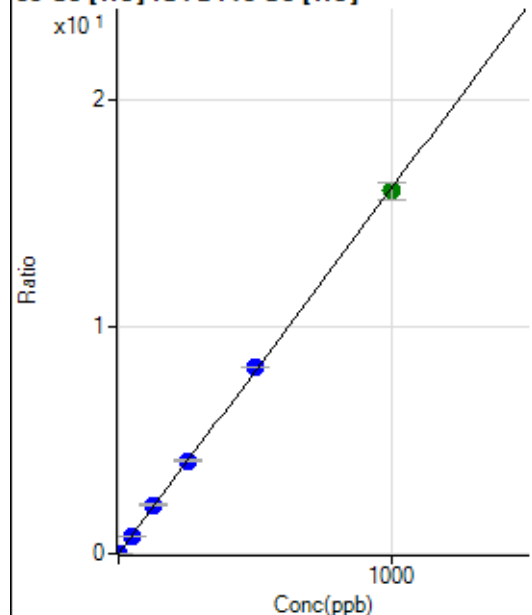
$$R = 1.0000$$

$$DL = 1.636$$

$$BEC = 5.933$$

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	44.45	0.0004	P	15.4
2	☐	1.000	0.835	1587.88	0.0139	P	4.8
3	☐	50.000	45.057	82575.20	0.7265	P	0.3
4	☐	125.000	134.165	240052.09	2.1626	P	0.7
5	☐	250.000	254.980	462146.36	4.1096	P	0.8
6	☐	500.000	509.696	929325.20	8.2145	P	0.4
7	☐	1000.000	993.009	1950139.82	16.0035	A	5.1
8	☐			2923.66	0.0267	P	3.4

$$y = 0.0161 * x + 3.9498\text{E-}004$$

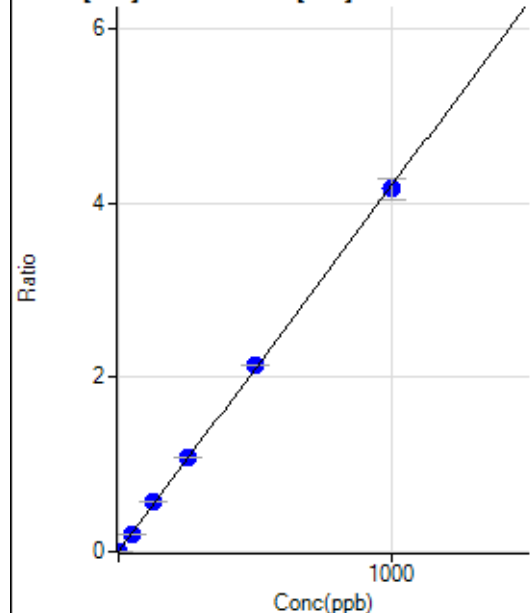
$$R = 0.9998$$

$$DL = 0.0113$$

$$BEC = 0.02451$$

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	265.56	0.0024	P	4.1
2	☐	1.000	0.788	650.02	0.0057	P	4.5
3	☐	50.000	45.458	21972.58	0.1933	P	0.5
4	☐	125.000	135.208	63308.79	0.5703	P	0.8
5	☐	250.000	257.831	122060.33	1.0854	P	1.3
6	☐	500.000	510.638	242943.15	2.1474	P	0.2
7	☐	1000.000	991.675	507749.60	4.1681	P	5.9
8	☐			1859.03	0.0170	P	4.9

$$y = 0.0042 * x + 0.0024$$

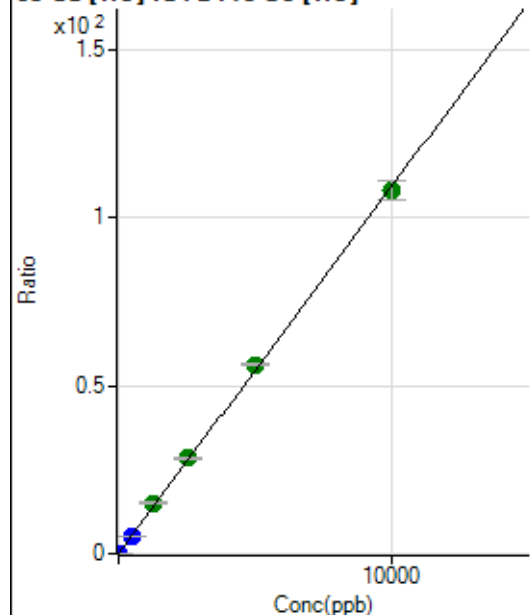
$$R = 0.9998$$

$$DL = 0.06996$$

$$BEC = 0.562$$

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	562.68	0.0050	P	12.6
2	☐	2.000	1.729	2735.37	0.0239	P	2.7
3	☐	500.000	463.734	575668.45	5.0649	P	0.8
4	☐	1250.000	1378.648	1670241.87	15.0477	A	2.3
5	☐	2500.000	2594.758	3184326.86	28.3169	A	1.0
6	☐	5000.000	5157.407	6366978.22	56.2784	A	0.1
7	☐	10000.000	9883.339	13140378.68	107.8440	A	5.3
8	☐			10165.45	0.0929	P	2.7

$$y = 0.0109 * x + 0.0050$$

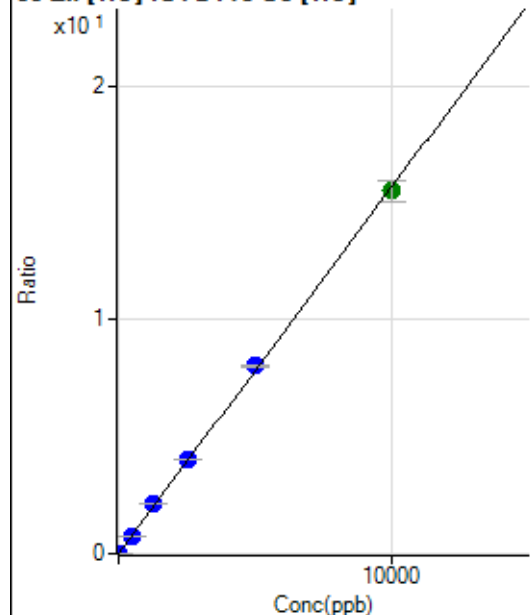
$$R = 0.9997$$

$$DL = 0.1726$$

$$BEC = 0.4582$$

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	38.89	0.0003	P	27.2
2	☐	2.000	1.622	331.12	0.0029	P	3.1
3	☐	500.000	456.595	81378.51	0.7160	P	1.3
4	☐	1250.000	1351.607	235193.57	2.1188	P	0.2
5	☐	2500.000	2584.365	455550.38	4.0509	P	0.6
6	☐	5000.000	5133.246	910200.48	8.0459	P	1.1
7	☐	10000.000	9901.755	1890788.65	15.5198	A	5.6
8	☐			2270.21	0.0207	P	1.0

$$y = 0.0016 * x + 3.4541E-004$$

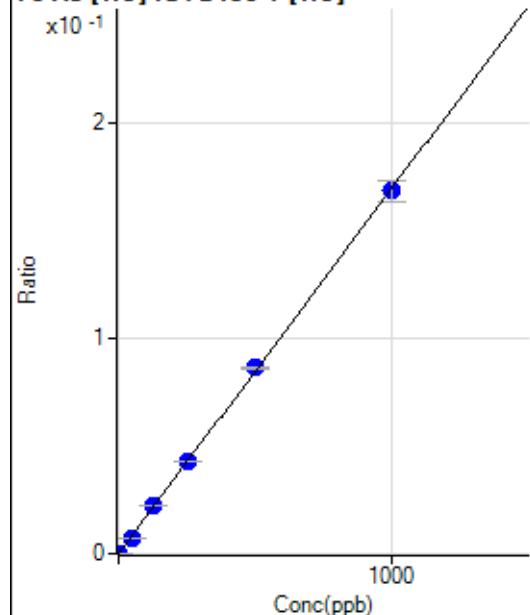
$$R = 0.9998$$

$$DL = 0.18$$

$$BEC = 0.2204$$

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	6.67	0.0000	P	22.8
2	☐	1.000	0.828	118.34	0.0001	P	11.5
3	☐	50.000	43.606	5910.84	0.0074	P	2.5
4	☐	125.000	131.974	17258.57	0.0223	P	0.5
5	☐	250.000	251.935	33915.22	0.0426	P	0.7
6	☐	500.000	509.242	68093.41	0.0861	P	0.8
7	☐	1000.000	994.343	143991.46	0.1682	P	5.8
8	☐			90.68	0.0001	P	12.9

$$y = 1.6912E-004 * x + 8.4402E-006$$

$$R = 0.9999$$

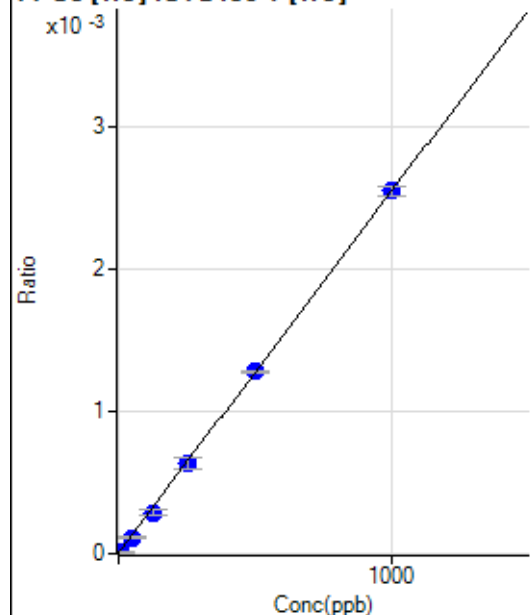
$$DL = 0.03414$$

$$BEC = 0.04991$$

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	4.44	0.0000	P	114.
2	☐	5.000	1.609	7.78	0.0000	P	64.5
3	☐	50.000	41.506	88.89	0.0001	P	14.3
4	☐	125.000	112.094	224.45	0.0003	P	9.5
5	☐	250.000	247.930	505.57	0.0006	P	13.2
6	☐	500.000	502.517	1013.38	0.0013	P	1.2
7	☐	1000.000	1001.314	2184.64	0.0025	P	3.0
8	☐			6.67	0.0000	P	50.3

$$y = 2.5397\text{E-}006 * x + 5.6269\text{E-}006$$

$$R = 0.9999$$

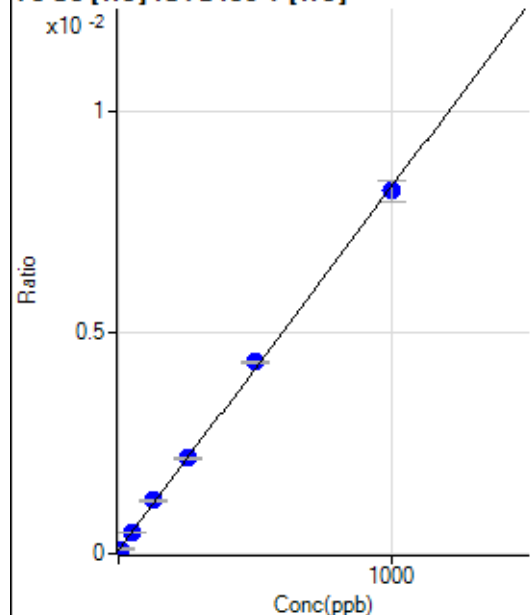
$$DL = 7.585$$

$$BEC = 2.216$$

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	61.68	0.0001	P	14.2
2	☐	5.000	3.720	86.68	0.0001	P	4.9
3	☐	50.000	47.224	373.71	0.0005	P	3.3
4	☐	125.000	136.824	930.79	0.0012	P	1.9
5	☐	250.000	253.847	1724.95	0.0022	P	1.1
6	☐	500.000	517.914	3431.77	0.0043	P	1.1
7	☐	1000.000	988.749	7035.47	0.0082	P	5.8
8	☐			60.34	0.0001	P	3.2

$$y = 8.2307\text{E-}006 * x + 7.8123\text{E-}005$$

$$R = 0.9997$$

$$DL = 4.052$$

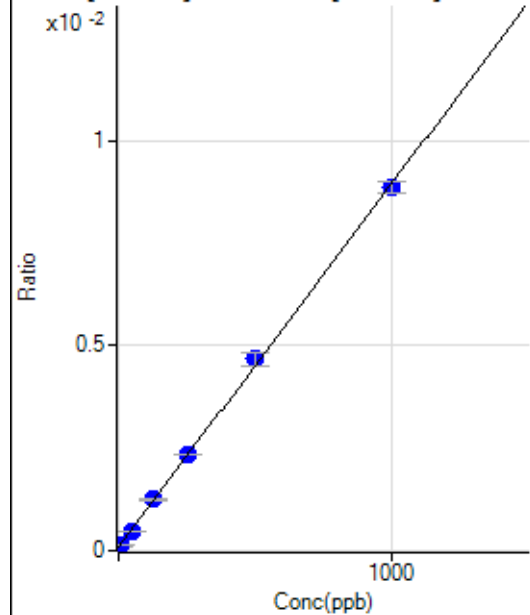
$$BEC = 9.492$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2773.14		P	1.3
2	☐			2849.91		P	2.7
3	☐			2853.24		P	2.2
4	☐			2909.97		P	10.0
5	☐			2749.77		P	15.0
6	☐			3130.25		P	0.7
7	☐			3093.55		P	4.8
8	☐			3287.14		P	11.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	571.47	0.0001	P	25.4
2	☐	5.000	5.355	874.81	0.0001	P	6.5
3	☐	50.000	44.351	3080.35	0.0005	P	3.2
4	☐	125.000	132.306	7656.62	0.0013	P	4.7
5	☐	250.000	255.121	14838.19	0.0023	P	1.6
6	☐	500.000	518.228	28882.41	0.0047	P	6.6
7	☐	1000.000	988.973	59618.22	0.0089	P	3.0
8	☐			703.47	0.0001	P	5.4

$$y = 8.8650E-006 * x + 8.7288E-005$$

$$R = 0.9997$$

$$DL = 7.514$$

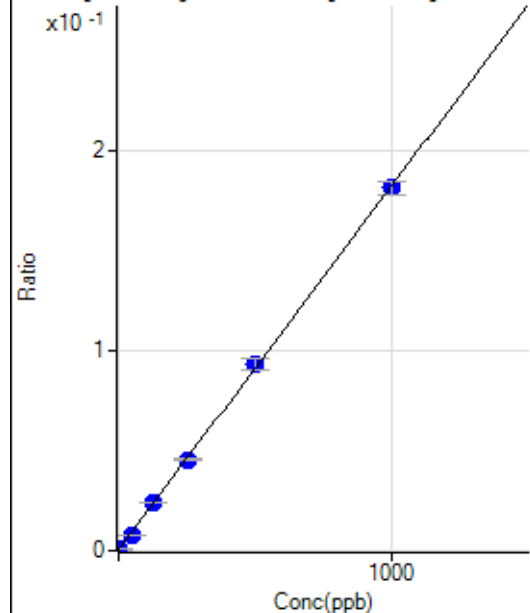
$$BEC = 9.846$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1921.26		P	9.4
2	☐			1916.82		P	1.7
3	☐			1867.92		P	5.6
4	☐			1900.15		P	4.9
5	☐			1723.45		P	1.0
6	☐			1844.58		P	3.9
7	☐			1922.38		P	1.3
8	☐			1820.14		P	2.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3128.22	0.0005	P	1.3
2	☐	1.000	0.584	3792.28	0.0006	P	3.7
3	☐	50.000	41.797	51857.95	0.0081	P	1.0
4	☐	125.000	129.242	145889.12	0.0240	P	2.8
5	☐	250.000	248.135	288362.86	0.0456	P	1.2
6	☐	500.000	510.361	576006.85	0.0934	P	7.2
7	☐	1000.000	995.166	1222852.45	0.1816	P	3.6
8	☐			9725.84	0.0016	P	7.3

$$y = 1.8204E-004 * x + 4.7821E-004$$

$$R = 0.9999$$

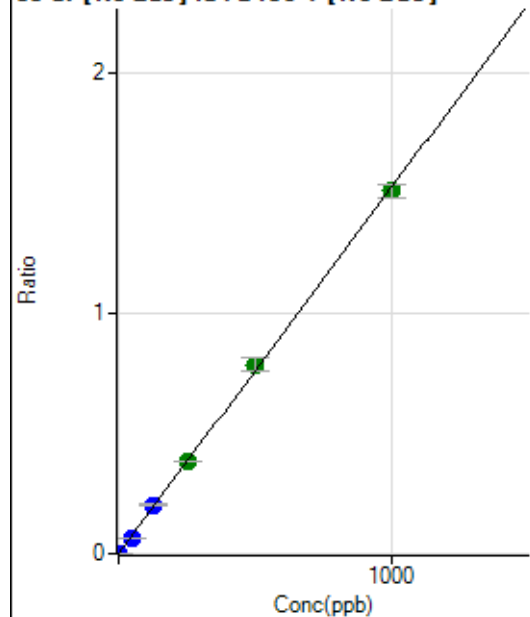
$$DL = 0.09856$$

$$BEC = 2.627$$

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	125.00	0.0000	P	28.9
2	☐	1.000	0.852	8552.84	0.0013	P	1.6
3	☐	50.000	43.665	427081.42	0.0666	P	1.2
4	☐	125.000	133.423	1236379.80	0.2035	P	3.2
5	☐	250.000	252.810	2435189.31	0.3855	A	0.9
6	☐	500.000	516.383	4857607.70	0.7874	A	6.7
7	☐	1000.000	990.370	10165466.11	1.5101	A	3.9
8	☐			59019.42	0.0094	P	6.7

$$y = 0.0015 * x + 1.9102E-005$$

$$R = 0.9997$$

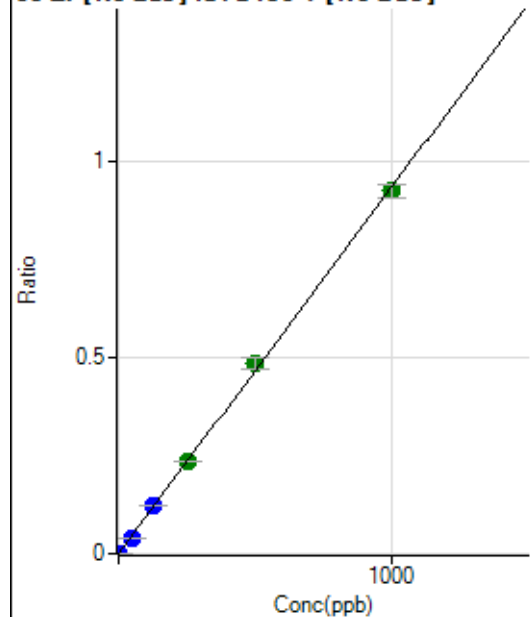
$$DL = 0.01086$$

$$BEC = 0.01253$$

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	311.13	0.0000	P	13.7
2	☐	1.000	0.826	5301.14	0.0008	P	3.9
3	☐	50.000	43.189	258392.88	0.0403	P	0.9
4	☐	125.000	131.019	742110.74	0.1221	P	3.7
5	☐	250.000	252.165	1484688.86	0.2350	A	0.8
6	☐	500.000	517.552	2976647.74	0.4823	A	5.9
7	☐	1000.000	990.271	6212561.68	0.9228	A	3.5
8	☐			4834.33	0.0008	P	11.6

$$y = 9.3182E-004 * x + 4.7581E-005$$

$$R = 0.9997$$

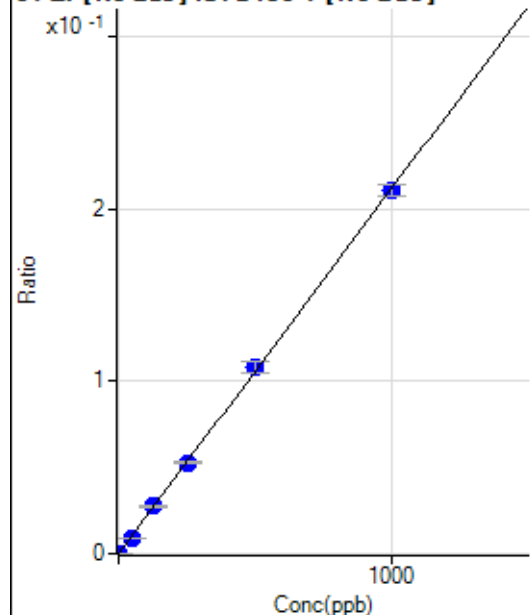
$$DL = 0.02102$$

$$BEC = 0.05106$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.67	0.0000	P	0.6
2	☐	1.000	0.709	1013.95	0.0002	P	1.3
3	☐	50.000	41.763	56702.21	0.0088	P	0.6
4	☐	125.000	129.607	166654.18	0.0274	P	4.1
5	☐	250.000	248.915	332689.43	0.0527	P	2.3
6	☐	500.000	512.179	668813.04	0.1084	P	5.8
7	☐	1000.000	994.018	1415984.56	0.2103	P	3.1
8	☐			1077.85	0.0002	P	5.1

$$y = 2.1156\text{E-}004 * x + 6.3699\text{E-}006$$

$$R = 0.9998$$

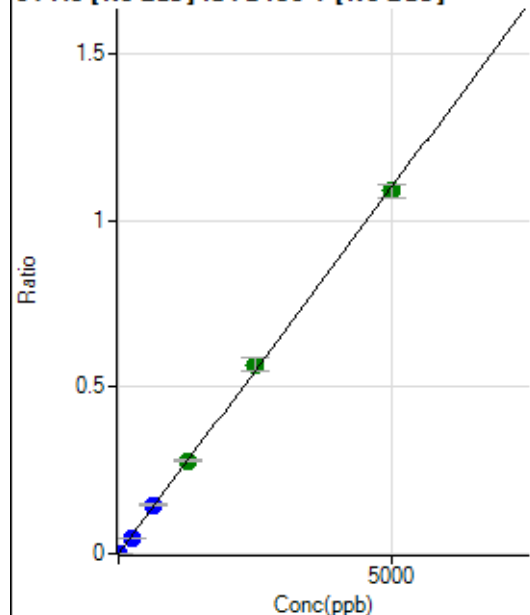
$$DL = 0.0005377$$

$$BEC = 0.03011$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	130.56	0.0000	P	16.6
2	☐	5.000	3.970	5793.04	0.0009	P	1.9
3	☐	250.000	219.294	309346.20	0.0482	P	1.7
4	☐	625.000	667.958	892604.57	0.1469	P	3.7
5	☐	1250.000	1265.040	1757353.55	0.2782	A	2.1
6	☐	2500.000	2581.753	3502455.07	0.5677	A	6.8
7	☐	5000.000	4951.530	7330199.21	1.0888	A	3.7
8	☐			5723.61	0.0009	P	8.0

$$y = 2.1989\text{E-}004 * x + 1.9971\text{E-}005$$

$$R = 0.9997$$

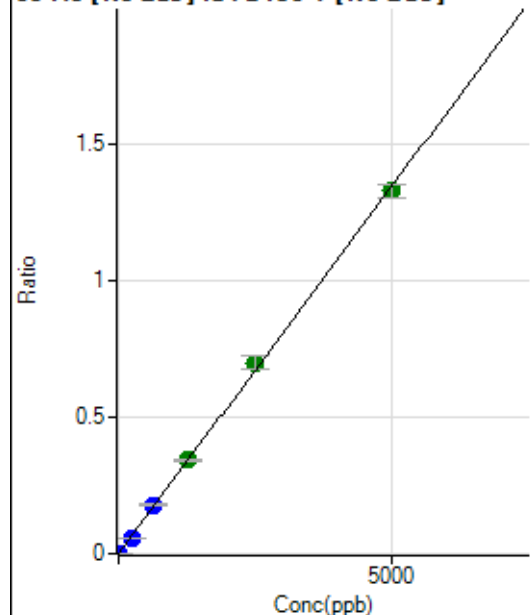
$$DL = 0.04528$$

$$BEC = 0.09082$$

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	30.56	0.0000	P	56.9
2	☐	5.000	4.181	7316.00	0.0011	P	1.7
3	☐	250.000	218.871	376947.40	0.0588	P	0.7
4	☐	625.000	662.401	1080958.43	0.1779	P	3.4
5	☐	1250.000	1272.184	2158128.58	0.3416	A	1.8
6	☐	2500.000	2599.481	4306941.68	0.6981	A	6.6
7	☐	5000.000	4941.595	8933151.42	1.3271	A	4.0
8	☐			6382.18	0.0010	P	6.9

$$y = 2.6855E-004 * x + 4.6706E-006$$

$$R = 0.9996$$

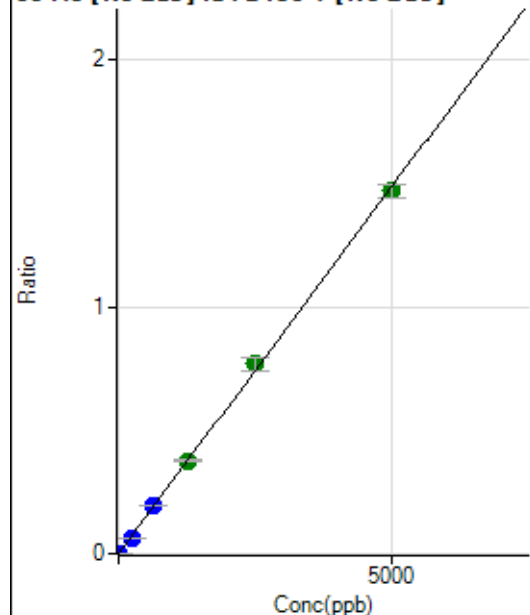
$$DL = 0.02967$$

$$BEC = 0.01739$$

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	44.44	0.0000	P	38.8
2	☐	5.000	4.220	8172.06	0.0013	P	7.7
3	☐	250.000	216.307	412052.91	0.0643	P	1.9
4	☐	625.000	656.218	1184613.73	0.1949	P	3.3
5	☐	1250.000	1267.838	2378970.97	0.3766	A	2.2
6	☐	2500.000	2590.097	4746151.54	0.7694	A	7.0
7	☐	5000.000	4948.275	9895440.85	1.4699	A	3.7
8	☐			7680.13	0.0012	P	11.6

$$y = 2.9705E-004 * x + 6.7894E-006$$

$$R = 0.9997$$

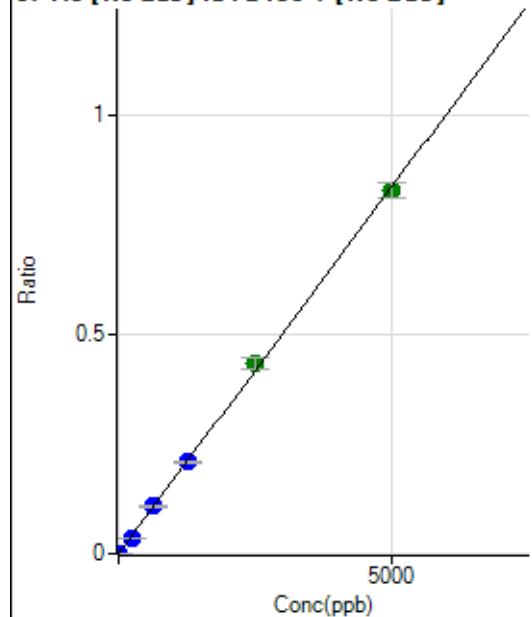
$$DL = 0.02658$$

$$BEC = 0.02286$$

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	8.33	0.0000	P	0.6
2	☐	5.000	4.241	4612.01	0.0007	P	3.4
3	☐	250.000	215.368	231131.16	0.0360	P	1.2
4	☐	625.000	646.969	657794.58	0.1083	P	4.5
5	☐	1250.000	1250.070	1321386.73	0.2092	P	2.3
6	☐	2500.000	2598.240	2682870.18	0.4348	A	6.3
7	☐	5000.000	4949.848	5575760.80	0.8283	A	4.3
8	☐			3931.22	0.0006	P	4.8

$$y = 1.6734E-004 * x + 1.2734E-006$$

$$R = 0.9997$$

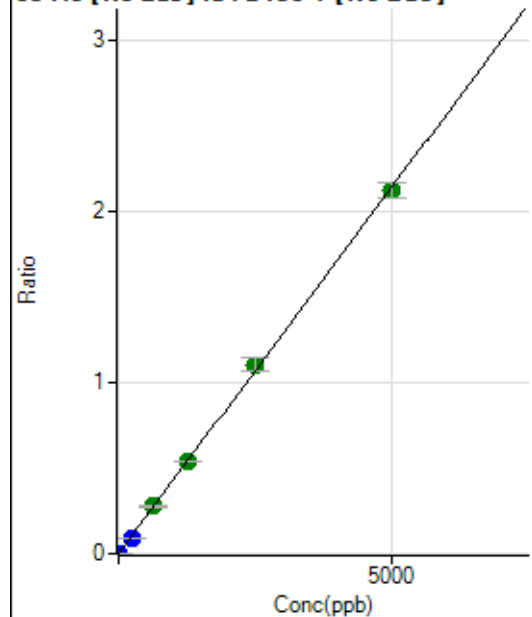
$$DL = 0.0001359$$

$$BEC = 0.007609$$

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	30.56	0.0000	P	41.5
2	☐	5.000	4.046	11277.10	0.0017	P	3.5
3	☐	250.000	217.906	598770.86	0.0934	P	1.4
4	☐	625.000	649.354	1690589.38	0.2783	A	4.2
5	☐	1250.000	1256.846	3402073.51	0.5386	A	1.2
6	☐	2500.000	2584.150	6830821.51	1.1073	A	6.9
7	☐	5000.000	4954.775	14291313.34	2.1231	A	4.1
8	☐			10156.79	0.0016	P	8.5

$$y = 4.2850E-004 * x + 4.6673E-006$$

$$R = 0.9997$$

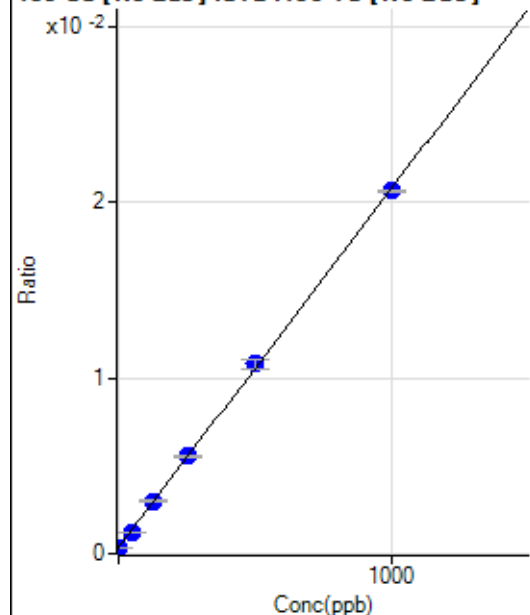
$$DL = 0.01357$$

$$BEC = 0.01089$$

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	1522.34	0.0004	P	8.4
2	☐	1.000	-0.071	1497.34	0.0004	P	12.2
3	☐	50.000	42.753	5195.56	0.0012	P	4.8
4	☐	125.000	129.525	12122.28	0.0030	P	6.0
5	☐	250.000	254.314	22727.56	0.0056	P	2.8
6	☐	500.000	510.468	43731.08	0.0108	P	5.9
7	☐	1000.000	993.486	91410.65	0.0207	P	0.8
8	☐			1450.12	0.0003	P	3.4

$$y = 2.0440\text{E-}005 * x + 3.5569\text{E-}004$$

$$R = 0.9998$$

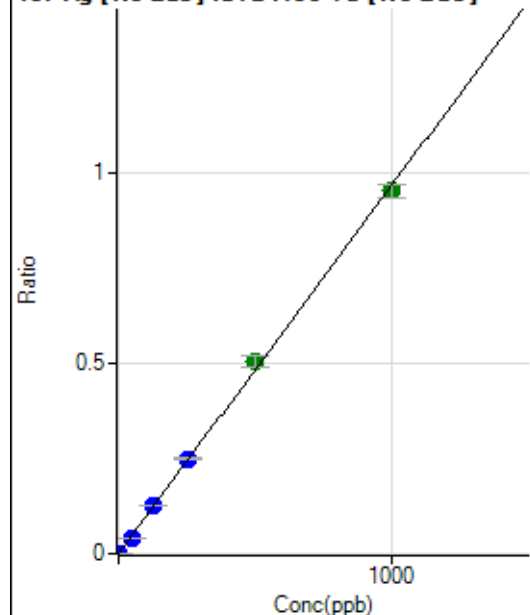
$$DL = 4.382$$

$$BEC = 17.4$$

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	41.67	0.0000	P	1.1
2	☐	1.000	0.800	3306.04	0.0008	P	9.9
3	☐	50.000	43.683	178288.26	0.0422	P	2.3
4	☐	125.000	130.823	510193.09	0.1263	P	3.0
5	☐	250.000	258.361	1021053.23	0.2495	P	1.3
6	☐	500.000	523.596	2048730.04	0.5056	A	6.5
7	☐	1000.000	985.700	4208250.62	0.9519	A	3.6
8	☐			3306.05	0.0008	P	3.0

$$y = 9.6569\text{E-}004 * x + 9.7310\text{E-}006$$

$$R = 0.9995$$

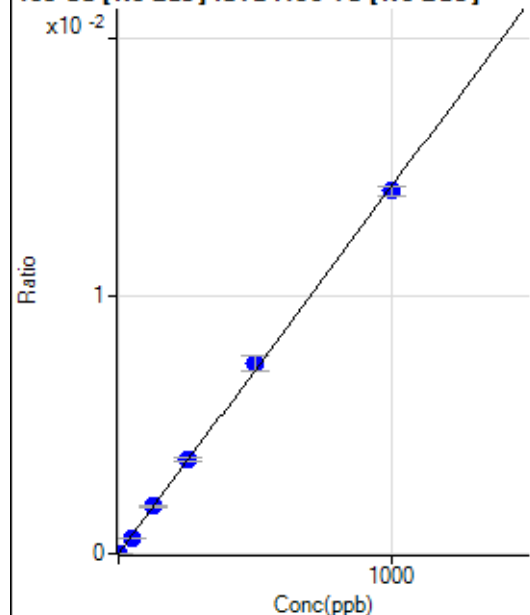
$$DL = 0.0003268$$

$$BEC = 0.01008$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	13.89	0.0000	P	68.5
2	☐	1.000	0.973	72.22	0.0000	P	9.4
3	☐	50.000	42.157	2551.66	0.0006	P	2.6
4	☐	125.000	128.708	7414.57	0.0018	P	6.0
5	☐	250.000	257.707	15038.89	0.0037	P	3.8
6	☐	500.000	519.516	29979.92	0.0074	P	8.4
7	☐	1000.000	988.244	62274.31	0.0141	P	2.8
8	☐			123.61	0.0000	P	22.9

$$y = 1.4248\text{E-}005 * x + 3.2316\text{E-}006$$

$$R = 0.9996$$

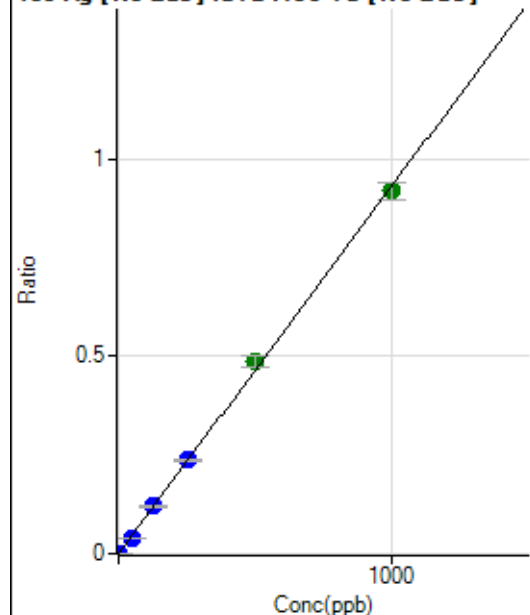
$$DL = 0.466$$

$$BEC = 0.2268$$

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	25.00	0.0000	P	33.4
2	☐	1.000	0.767	3044.85	0.0007	P	3.9
3	☐	50.000	42.618	167644.07	0.0397	P	0.7
4	☐	125.000	128.899	484447.38	0.1200	P	3.9
5	☐	250.000	255.271	972382.03	0.2376	P	1.6
6	☐	500.000	521.249	1966440.60	0.4852	A	6.0
7	☐	1000.000	987.940	4064414.85	0.9196	A	4.5
8	☐			3175.46	0.0008	P	2.2

$$y = 9.3081\text{E-}004 * x + 5.8416\text{E-}006$$

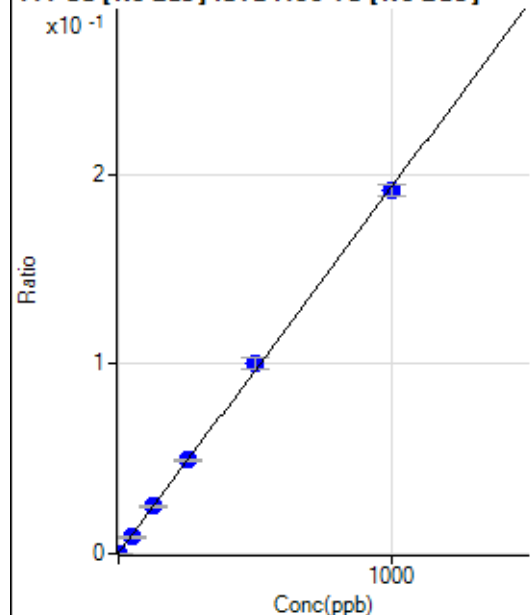
$$R = 0.9996$$

$$DL = 0.006285$$

$$BEC = 0.006276$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1062.86	0.0002	P	8.3
2	☐	1.000	0.839	1733.72	0.0004	P	9.6
3	☐	50.000	43.396	36441.41	0.0086	P	1.4
4	☐	125.000	128.895	101451.63	0.0251	P	3.7
5	☐	250.000	254.910	202357.70	0.0494	P	1.7
6	☐	500.000	517.762	405877.52	0.1002	P	6.7
7	☐	1000.000	989.735	845671.36	0.1913	P	3.3
8	☐			1548.02	0.0004	P	2.9

$$y = 1.9301\text{E-}004 * x + 2.4833\text{E-}004$$

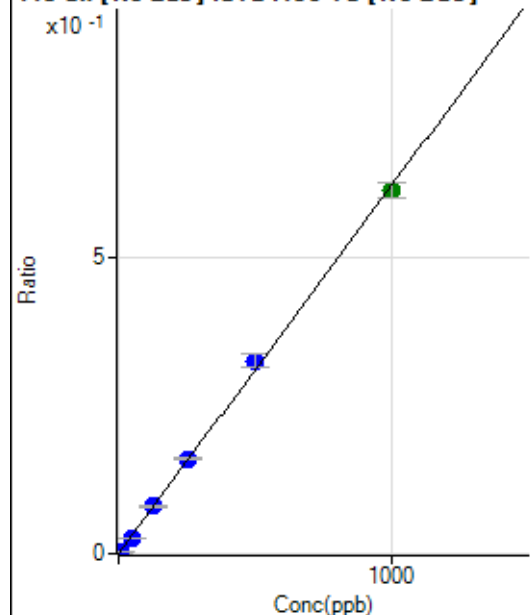
$$R = 0.9997$$

$$DL = 0.3192$$

$$BEC = 1.287$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	133.34	0.0000	P	24.4
2	☐	5.000	4.079	10857.39	0.0026	P	1.3
3	☐	50.000	42.994	113123.76	0.0268	P	0.9
4	☐	125.000	130.163	326973.72	0.0810	P	4.1
5	☐	250.000	257.462	655433.57	0.1602	P	1.0
6	☐	500.000	524.172	1320986.57	0.3260	P	6.6
7	☐	1000.000	985.758	2710132.29	0.6131	A	4.2
8	☐			2261.37	0.0005	P	2.2

$$y = 6.2196\text{E-}004 * x + 3.1097\text{E-}005$$

$$R = 0.9995$$

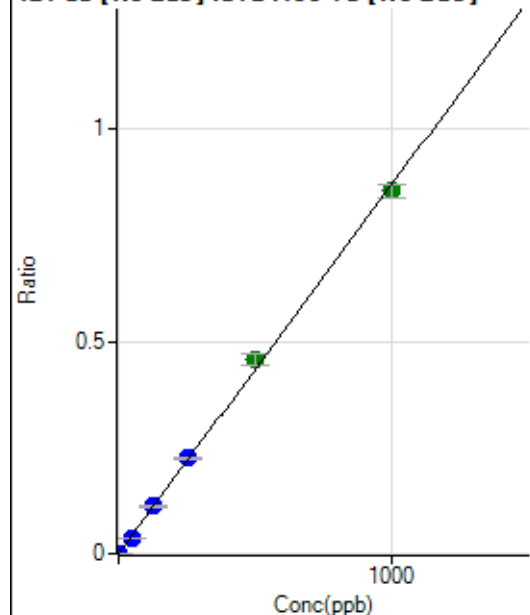
$$DL = 0.03656$$

$$BEC = 0.05$$

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	5.56	0.0000	P	173.
2	☐	2.000	1.630	5987.58	0.0014	P	1.3
3	☐	50.000	42.446	155673.46	0.0368	P	1.0
4	☐	125.000	130.031	455679.71	0.1129	P	3.8
5	☐	250.000	258.462	918030.00	0.2243	P	0.9
6	☐	500.000	527.718	1856197.22	0.4580	A	6.0
7	☐	1000.000	983.775	3774856.16	0.8539	A	3.6
8	☐			4103.52	0.0010	P	5.9

$$y = 8.6793\text{E-}004 * x + 1.2932\text{E-}006$$

$$R = 0.9993$$

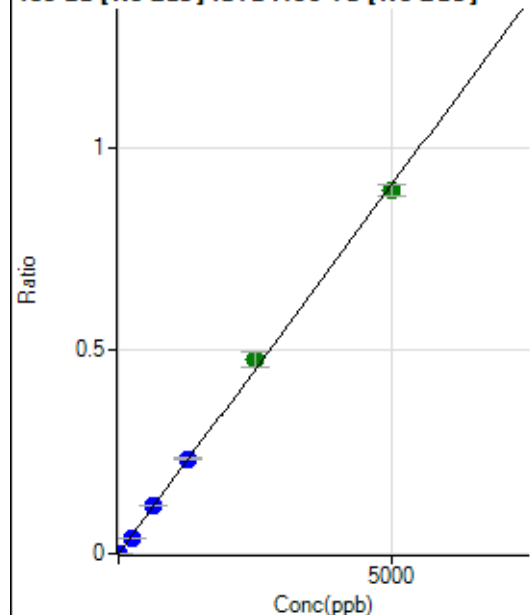
$$DL = 0.007742$$

$$BEC = 0.00149$$

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	19.45	0.0000	P	24.4
2	☐	10.000	8.037	6187.70	0.0015	P	4.7
3	☐	250.000	211.275	162106.11	0.0384	P	1.8
4	☐	625.000	650.800	477119.64	0.1182	P	3.5
5	☐	1250.000	1285.527	955176.71	0.2334	P	1.2
6	☐	2500.000	2637.026	1938931.97	0.4788	A	7.8
7	☐	5000.000	4921.320	3950625.65	0.8935	A	3.1
8	☐			2778.15	0.0007	P	6.7

$$y = 1.8156\text{E-}004 * x + 4.5391\text{E-}006$$

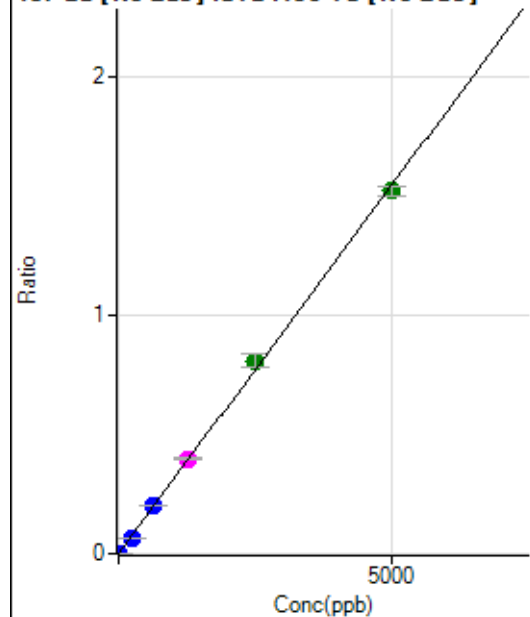
$$R = 0.9993$$

$$DL = 0.01832$$

$$BEC = 0.025$$

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	27.78	0.0000	P	45.0
2	☐	10.000	8.242	10790.69	0.0026	P	1.5
3	☐	250.000	218.382	285061.41	0.0675	P	0.9
4	☐	625.000	652.160	813447.52	0.2015	P	3.2
5	☐	1250.000	1289.123	1629567.88	0.3982	M	0.8
6	☐	2500.000	2624.039	3283034.60	0.8105	A	7.2
7	☐	5000.000	4926.389	6729125.80	1.5217	A	2.5
8	☐			4559.25	0.0011	P	12.7

$$y = 3.0889\text{E-}004 * x + 6.4681\text{E-}006$$

$$R = 0.9994$$

$$DL = 0.02824$$

$$BEC = 0.02094$$

Weight: <None>

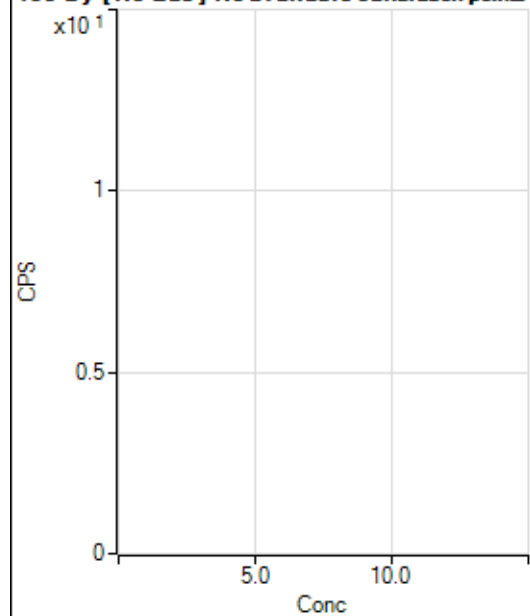
Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	173.
2	☐			2.22		P	173.
3	☐			22.22		P	17.3
4	☐			37.78		P	44.4
5	☐			66.67		P	43.6
6	☐			97.78		P	33.6
7	☐			235.56		P	16.1
8	☐			24.44		P	56.8

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	86.6
3	☐			2.22		P	86.6
4	☐			1.11		P	173.
5	☐			4.44		P	43.4
6	☐			22.22		P	8.7
7	☐			17.78		P	39.0
8	☐			5.56		P	91.6

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	173.
2	☐			19.44		P	89.2
3	☐			36.11		P	13.3
4	☐			41.67		P	40.0
5	☐			25.00		P	88.2
6	☐			58.34		P	14.3
7	☐			111.12		P	44.0
8	☐			833.38		P	10.6

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			4.45		P	86.6
3	☐			7.78		P	24.7
4	☐			8.89		P	57.3
5	☐			12.22		P	41.7
6	☐			12.22		P	87.7
7	☐			28.89		P	17.6
8	☐			374.46		P	6.4

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

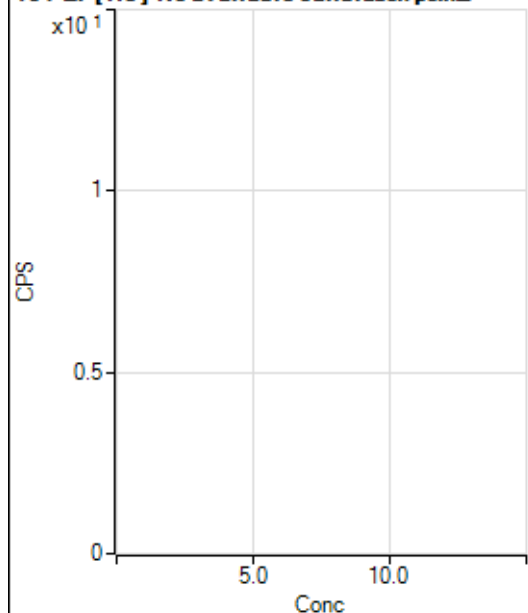
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	45.8
2	☐			44.45		P	10.8
3	☐			27.78		P	62.5
4	☐			44.44		P	39.0
5	☐			58.33		P	14.3
6	☐			66.67		P	21.7
7	☐			91.67		P	18.2
8	☐			891.72		P	2.5

160 Gd [He] No available calibration points

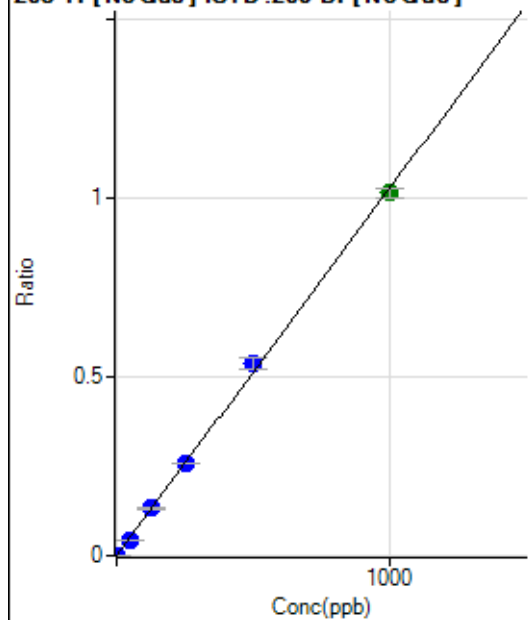
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	28.6
2	☐			15.55		P	24.8
3	☐			10.00		P	66.7
4	☐			14.44		P	35.3
5	☐			21.11		P	36.5
6	☐			20.00		P	28.9
7	☐			46.67		P	24.7
8	☐			485.57		P	2.9

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	43.3
2	☐			44.45		P	28.7
3	☐			19.44		P	65.5
4	☐			27.78		P	17.3
5	☐			22.22		P	78.1
6	☐			38.89		P	12.4
7	☐			41.67		P	52.9
8	☐			127.78		P	19.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	57.3
2	☐			7.78		P	65.5
3	☐			12.22		P	31.5
4	☐			8.89		P	21.6
5	☐			17.78		P	96.2
6	☐			10.00		P	33.3
7	☐			14.44		P	58.1
8	☐			64.44		P	33.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	27.78	0.0000	P	96.0
2	☐	1.000	0.770	1866.85	0.0008	P	7.9
3	☐	50.000	42.547	100185.67	0.0437	P	1.5
4	☐	125.000	129.225	288451.08	0.1327	P	4.1
5	☐	250.000	251.688	583837.24	0.2584	P	1.1
6	☐	500.000	522.808	1169509.17	0.5367	P	6.4
7	☐	1000.000	988.019	2394836.66	1.0143	A	2.8
8	☐			2600.34	0.0012	P	2.1

$$y = 0.0010 * x + 1.1694E-005$$

$$R = 0.9995$$

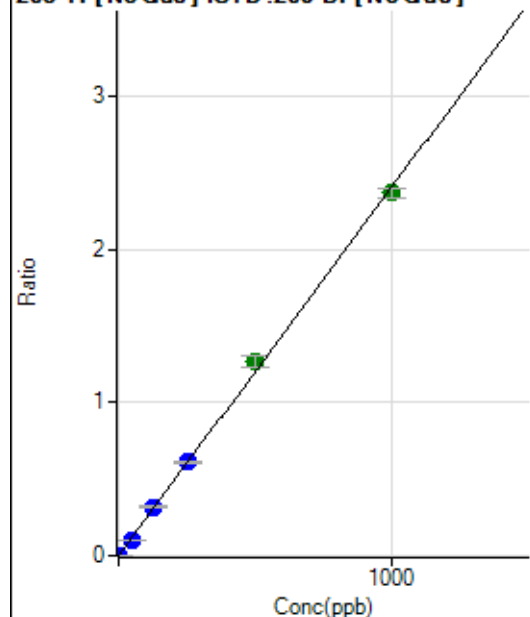
$$DL = 0.03279$$

$$BEC = 0.01139$$

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	75.01	0.0000	P	19.8
2	☐	1.000	0.816	4648.20	0.0020	P	3.2
3	☐	50.000	42.635	235423.66	0.1027	P	1.3
4	☐	125.000	131.409	687882.13	0.3164	P	3.7
5	☐	250.000	253.322	1377944.29	0.6098	P	0.9
6	☐	500.000	526.689	2763072.26	1.2679	A	6.0
7	☐	1000.000	985.392	5600618.05	2.3721	A	2.8
8	☐			5951.52	0.0028	P	6.4

$$y = 0.0024 * x + 3.1730E-005$$

$$R = 0.9994$$

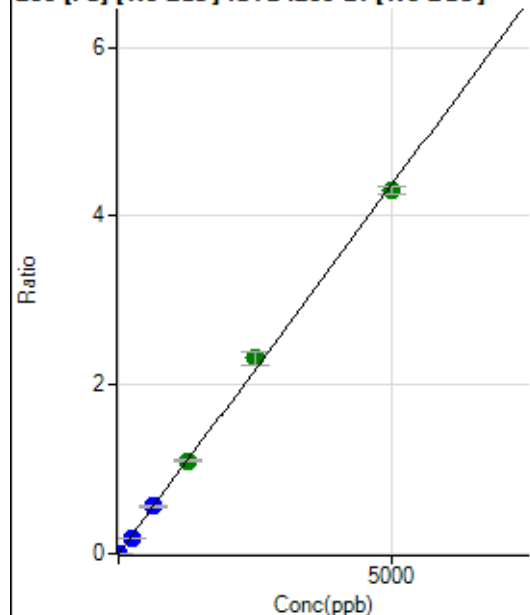
$$DL = 0.007812$$

$$BEC = 0.01318$$

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	100.00	0.0000	P	14.7
2	☐	1.000	0.825	1774.23	0.0008	P	5.9
3	☐	250.000	208.869	418386.48	0.1824	P	1.6
4	☐	625.000	642.549	1220304.12	0.5612	P	3.5
5	☐	1250.000	1259.274	2484923.44	1.0998	A	1.6
6	☐	2500.000	2650.829	5042565.10	2.3150	A	7.3
7	☐	5000.000	4922.130	10149910.76	4.2985	A	2.3
8	☐			16955.80	0.0079	P	5.0

$$y = 8.7330E-004 * x + 4.2275E-005$$

$$R = 0.9992$$

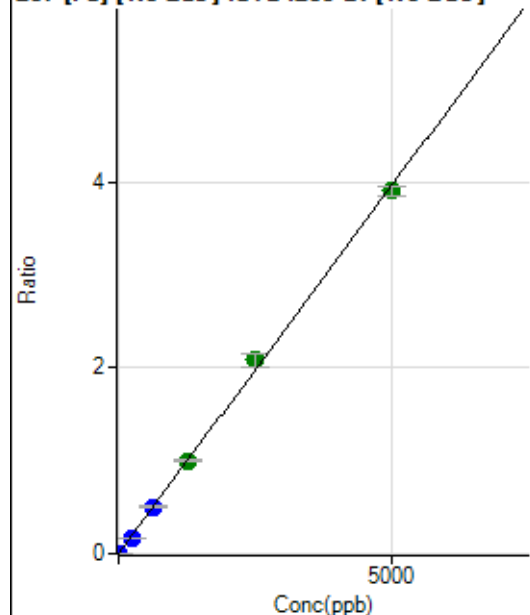
$$DL = 0.02141$$

$$BEC = 0.04841$$

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	96.30	0.0000	P	24.1
2	☐	1.000	0.811	1589.02	0.0007	P	2.5
3	☐	250.000	207.329	376250.83	0.1641	P	2.3
4	☐	625.000	632.952	1089095.16	0.5008	P	3.3
5	☐	1250.000	1262.601	2257383.28	0.9990	A	2.4
6	☐	2500.000	2631.616	4536888.35	2.0822	A	6.5
7	☐	5000.000	4932.181	9214653.80	3.9025	A	2.4
8	☐			14957.02	0.0069	P	2.8

$$y = 7.9122\text{E-}004 * x + 4.0713\text{E-}005$$

$$R = 0.9994$$

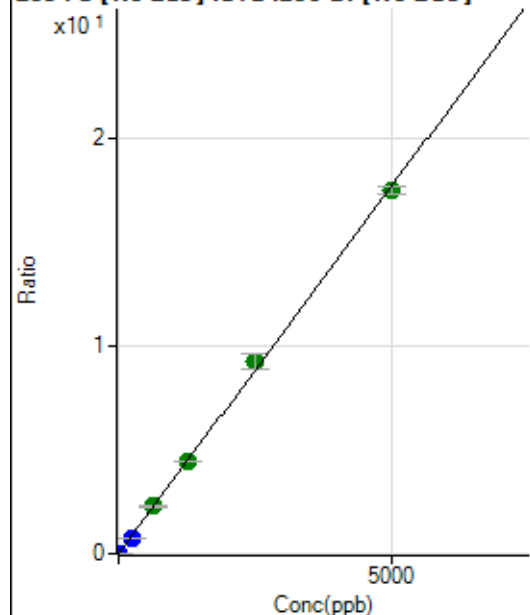
$$DL = 0.03715$$

$$BEC = 0.05146$$

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	438.90	0.0002	P	17.0
2	☐	1.000	0.774	6813.77	0.0029	P	2.0
3	☐	250.000	208.463	1694292.00	0.7388	P	1.6
4	☐	625.000	649.378	5003852.44	2.3012	A	3.6
5	☐	1250.000	1260.433	10092061.47	4.4664	A	1.3
6	☐	2500.000	2615.618	20188385.29	9.2683	A	7.3
7	☐	5000.000	4938.612	41322124.54	17.4995	A	2.1
8	☐			67097.89	0.0312	P	4.0

$$y = 0.0035 * x + 1.8564\text{E-}004$$

$$R = 0.9995$$

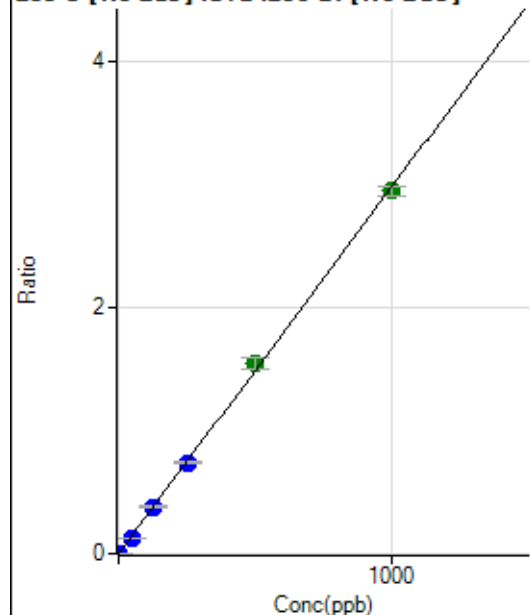
$$DL = 0.02666$$

$$BEC = 0.05239$$

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	13.89	0.0000	P	34.2
2	☐	1.000	0.788	5476.36	0.0024	P	3.1
3	☐	50.000	41.688	284692.41	0.1241	P	1.0
4	☐	125.000	128.175	829919.95	0.3817	P	3.9
5	☐	250.000	248.451	1671659.81	0.7398	P	1.3
6	☐	500.000	520.738	3378629.15	1.5506	A	6.5
7	☐	1000.000	990.037	6961275.85	2.9481	A	2.3
8	☐			3745.11	0.0017	P	9.6

$$y = 0.0030 * x + 5.8624E-006$$

$$R = 0.9996$$

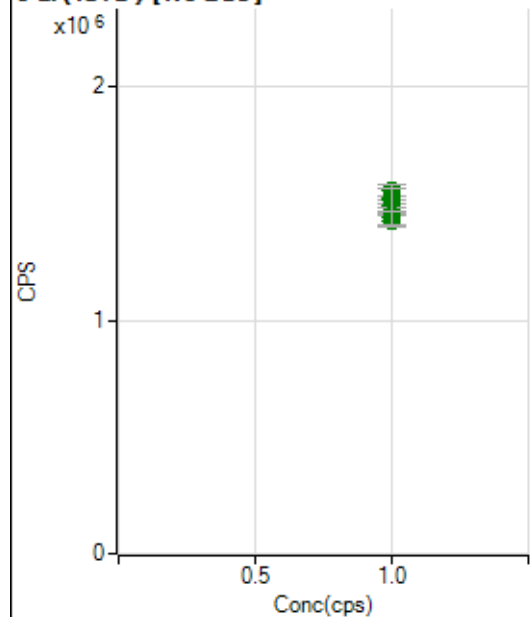
$$DL = 0.002019$$

$$BEC = 0.001969$$

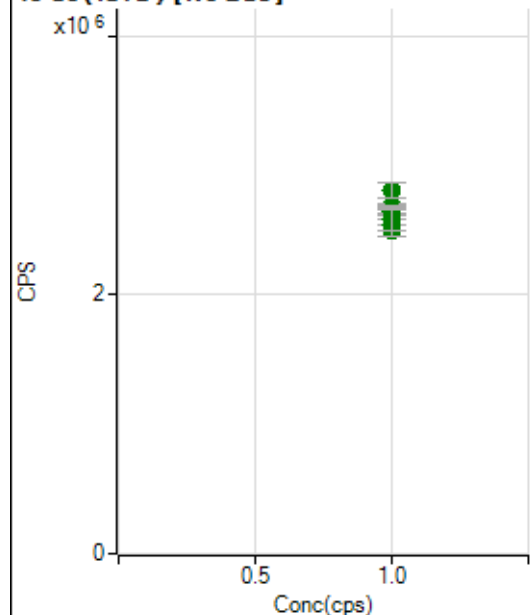
Weight: <None>

Min Conc: 0

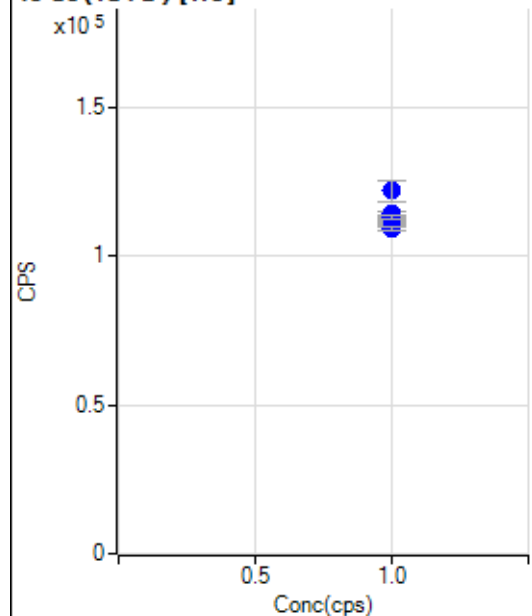
6 Li (ISTD) [No Gas]



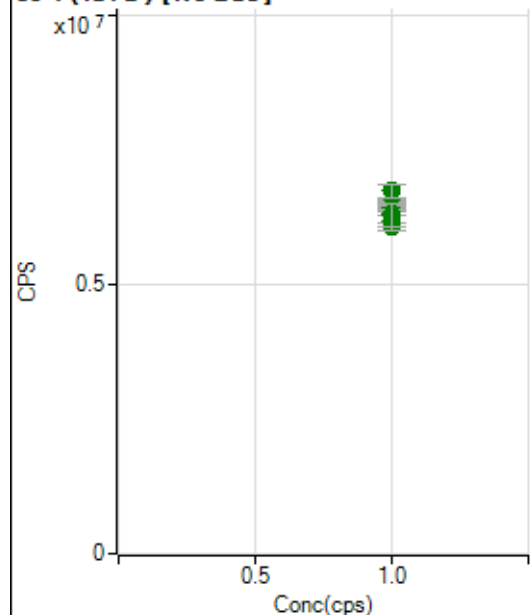
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1525684.93		A	0.8
2	☐	1.000		1483735.95		A	2.0
3	☐	1.000		1494945.90		A	1.0
4	☐	1.000		1428876.92		A	3.5
5	☐	1.000		1462452.52		A	0.6
6	☐	1.000		1445223.90		A	5.5
7	☐	1.000		1555047.04		A	3.1
8	☐	1.000		1519000.38		A	6.4

45 Sc (ISTD) [No Gas]

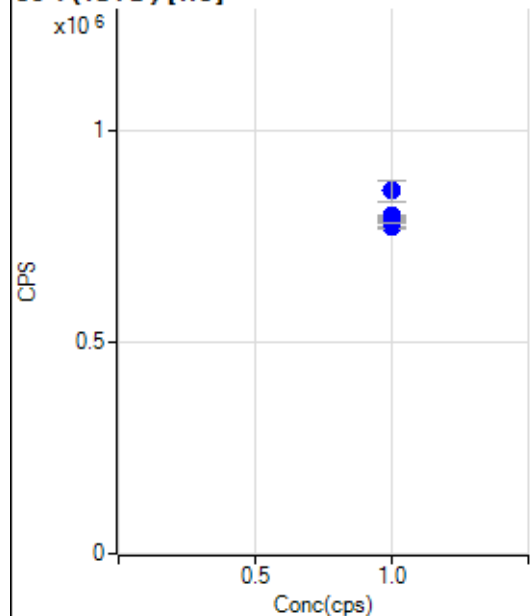
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2684279.49		A	1.4
2	☐	1.000		2651698.59		A	1.5
3	☐	1.000		2662251.28		A	1.8
4	☐	1.000		2496612.77		A	3.1
5	☐	1.000		2622744.86		A	2.6
6	☐	1.000		2537503.33		A	6.5
7	☐	1.000		2805311.87		A	4.1
8	☐	1.000		2586531.80		A	7.0

45 Sc (ISTD) [He]

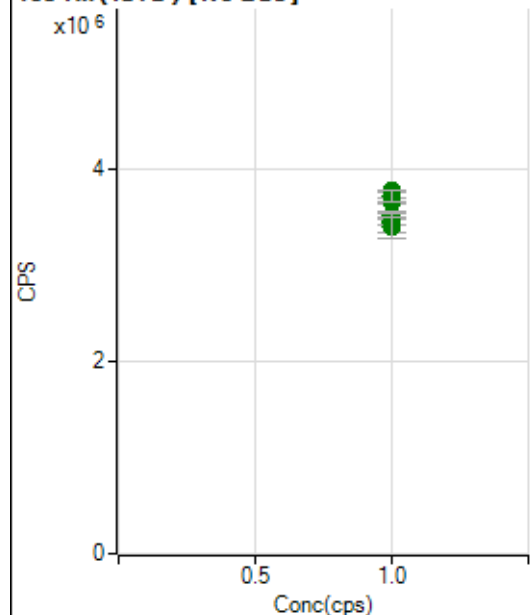
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		112503.68		P	0.6
2	☐	1.000		114643.10		P	0.9
3	☐	1.000		113659.33		P	0.2
4	☐	1.000		111005.40		P	0.6
5	☐	1.000		112458.71		P	0.7
6	☐	1.000		113132.97		P	0.9
7	☐	1.000		122103.48		P	6.0
8	☐	1.000		109419.19		P	1.0

89 Y (ISTD) [No Gas]

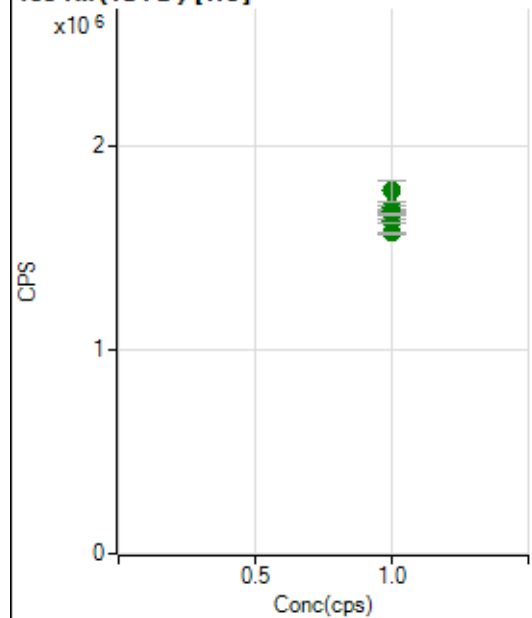
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6541822.89		A	0.6
2	☐	1.000		6489059.97		A	1.4
3	☐	1.000		6412952.26		A	1.3
4	☐	1.000		6079819.70		A	2.4
5	☐	1.000		6317476.92		A	1.1
6	☐	1.000		6186508.87		A	6.2
7	☐	1.000		6738011.36		A	3.7
8	☐	1.000		6280431.51		A	6.9

89 Y (ISTD) [He]

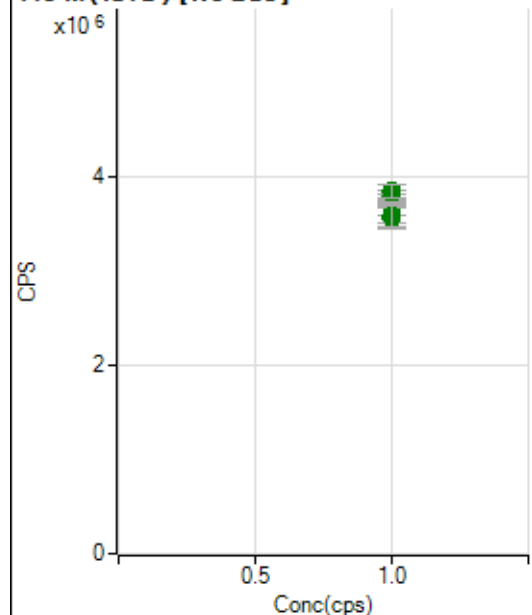
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		789880.45		P	0.9
2	☐	1.000		797331.00		P	1.0
3	☐	1.000		800566.61		P	0.2
4	☐	1.000		772952.00		P	0.6
5	☐	1.000		795829.86		P	0.2
6	☐	1.000		790562.29		P	0.4
7	☐	1.000		858162.16		P	5.9
8	☐	1.000		783045.65		P	0.4

103 Rh (ISTD) [No Gas]

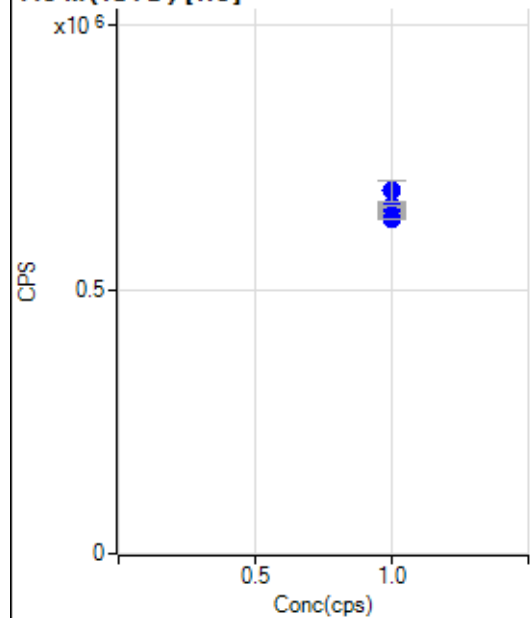
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3769421.92		A	0.4
2	☐	1.000		3664920.74		A	2.0
3	☐	1.000		3658139.84		A	0.3
4	☐	1.000		3447445.09		A	1.4
5	☐	1.000		3517747.35		A	1.0
6	☐	1.000		3443848.25		A	6.8
7	☐	1.000		3717003.34		A	3.5
8	☐	1.000		3387048.69		A	7.0

103 Rh (ISTD) [He]

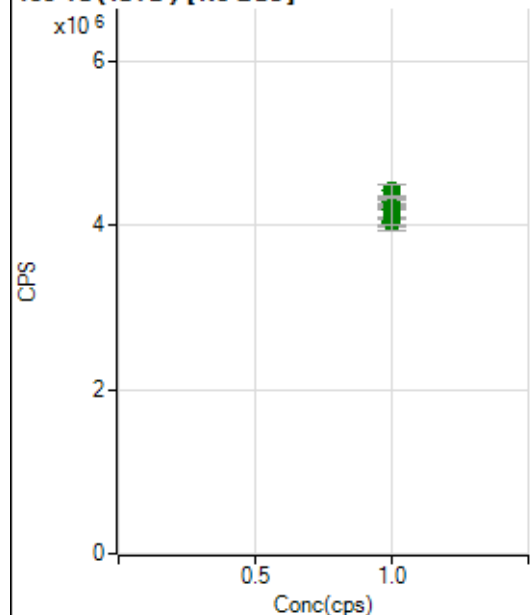
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1670840.51		A	0.9
2	☐	1.000		1677109.51		A	1.4
3	☐	1.000		1695586.93		A	1.4
4	☐	1.000		1626462.02		A	1.2
5	☐	1.000		1676111.94		A	1.0
6	☐	1.000		1664064.65		A	0.5
7	☐	1.000		1776667.61		A	5.6
8	☐	1.000		1569776.12		A	0.4

115 In (ISTD) [No Gas]

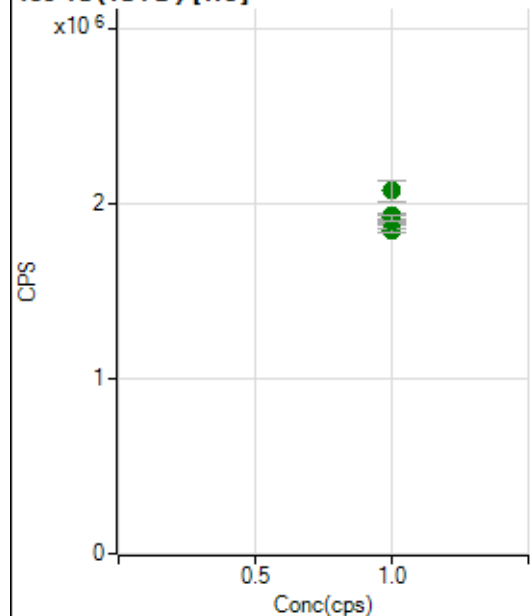
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3834378.36		A	1.0
2	☐	1.000		3793904.51		A	1.2
3	☐	1.000		3765102.44		A	0.6
4	☐	1.000		3556032.08		A	2.8
5	☐	1.000		3697229.94		A	0.6
6	☐	1.000		3585355.75		A	6.6
7	☐	1.000		3854842.03		A	3.4
8	☐	1.000		3593098.30		A	7.7

115 In (ISTD) [He]

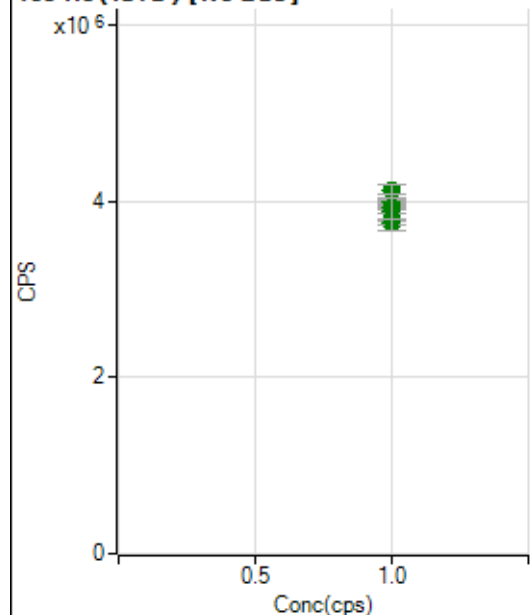
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		650053.45		P	0.3
2	☐	1.000		659492.49		P	0.7
3	☐	1.000		659350.48		P	0.3
4	☐	1.000		636488.45		P	0.5
5	☐	1.000		655930.59		P	0.3
6	☐	1.000		641797.33		P	0.5
7	☐	1.000		686445.79		P	5.6
8	☐	1.000		634366.72		P	0.1

159 Tb (ISTD) [No Gas]

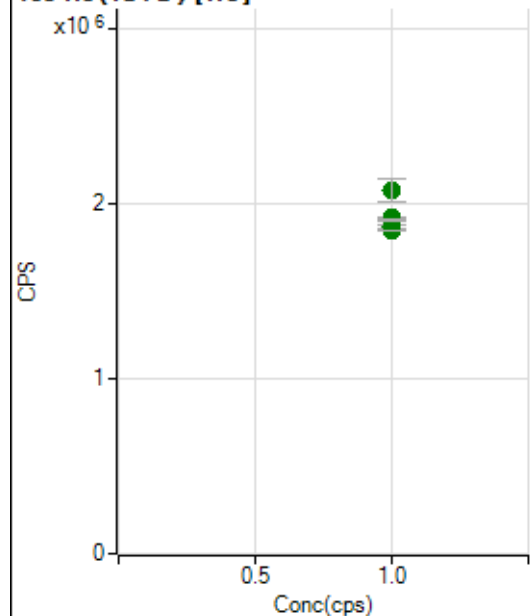
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4282536.05		A	1.1
2	☐	1.000		4227996.15		A	0.5
3	☐	1.000		4225486.57		A	0.1
4	☐	1.000		4040201.19		A	2.6
5	☐	1.000		4092350.49		A	0.2
6	☐	1.000		4063249.97		A	6.5
7	☐	1.000		4425028.13		A	4.0
8	☐	1.000		4188269.31		A	8.3

159 Tb (ISTD) [He]

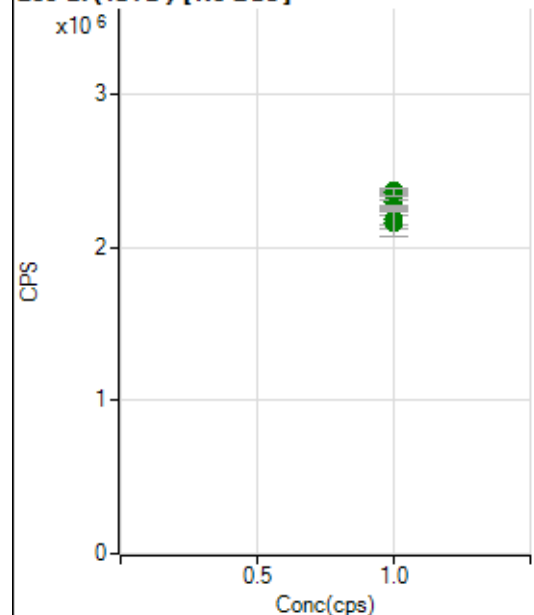
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1891510.23		A	1.6
2	☐	1.000		1921373.60		A	1.5
3	☐	1.000		1912969.22		A	0.5
4	☐	1.000		1845317.94		A	1.5
5	☐	1.000		1932251.65		A	2.0
6	☐	1.000		1897652.18		A	0.1
7	☐	1.000		2074666.79		A	6.0
8	☐	1.000		1920162.98		A	1.4

165 Ho (ISTD) [No Gas]

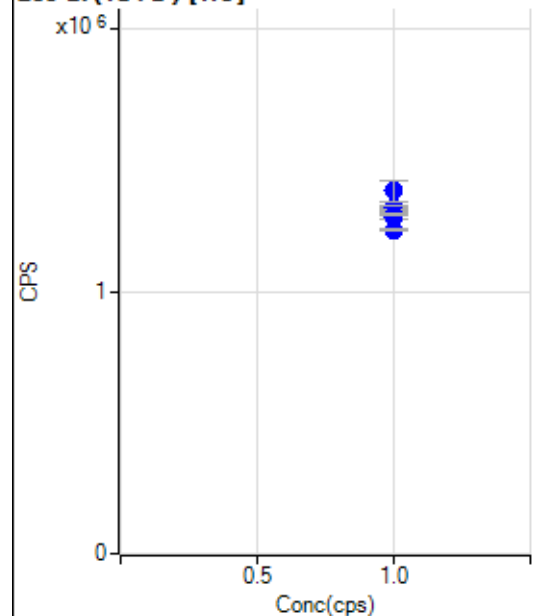
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3984470.01		A	0.6
2	☐	1.000		3983870.10		A	1.4
3	☐	1.000		3933855.60		A	1.5
4	☐	1.000		3745526.34		A	1.0
5	☐	1.000		3880773.00		A	1.0
6	☐	1.000		3794378.65		A	6.4
7	☐	1.000		4115155.09		A	3.6
8	☐	1.000		3936729.99		A	6.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1866351.07		A	1.0
2	☐	1.000		1903085.69		A	1.0
3	☐	1.000		1900641.80		A	0.6
4	☐	1.000		1843479.80		A	0.5
5	☐	1.000		1919078.46		A	0.6
6	☐	1.000		1908941.29		A	1.3
7	☐	1.000		2070414.59		A	6.3
8	☐	1.000		1903674.11		A	1.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2365765.28		A	0.7
2	☐	1.000		2328497.31		A	1.4
3	☐	1.000		2293523.99		A	1.7
4	☐	1.000		2175687.02		A	2.7
5	☐	1.000		2259572.19		A	0.6
6	☐	1.000		2184529.76		A	6.0
7	☐	1.000		2362061.18		A	2.3
8	☐	1.000		2153808.03		A	7.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1305545.55		P	0.1
2	☐	1.000		1319304.84		P	0.4
3	☐	1.000		1319058.80		P	0.5
4	☐	1.000		1285700.65		P	1.1
5	☐	1.000		1319440.91		P	0.6
6	☐	1.000		1291790.54		P	0.4
7	☐	1.000		1383338.94		P	6.1
8	☐	1.000		1234845.75		P	0.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8011921MS1.b
Acq. Date-Time 2021-01-19 13:22:28
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		3140	31400.26			1.574	5.000
24		41018	410180.24			1.208	5.000
25		5467	54667.70			1.673	5.000
26		6306	63055.63			1.486	5.000
59		6157	61573.93			1.982	5.000
113		2826	28259.94			1.561	5.000
115		9645	96447.43			1.784	5.000
206		3176	31757.04			1.899	5.000
207		2668	26676.78			2.499	5.000
208		6472	64719.70			2.461	5.000
220		1	8.90			20.411	

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

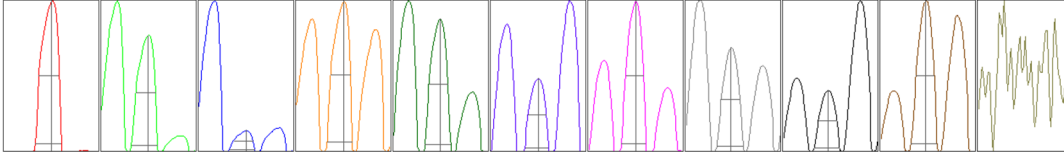
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3160	3062	3184	3122	3173
24	41026	40219	41242	41044	41559
25	5451	5328	5523	5461	5570
26	6340	6144	6325	6331	6388
59	6156	5967	6255	6136	6273
113	2795	2767	2865	2837	2866
115	9831	9414	9765	9526	9687
206	3136	3104	3226	3166	3247
207	2621	2588	2749	2662	2718
208	6391	6290	6624	6399	6655

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	5274.26	9.05	8.90 - 9.10	
24	69646.89	24.00	23.90 - 24.10	
25	9385.63	25.05	24.90 - 25.10	
26	10678.94	26.05	25.90 - 26.10	
59	10992.72	59.00	58.90 - 59.10	
113	5208.19	113.05	112.90 - 113.10	
115	17907.25	115.05	114.90 - 115.10	
206	5688.69	205.95	205.90 - 206.10	
207	4712.19	206.95	206.90 - 207.10	
208	11690.34	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.821	0.900	
24	0.63	0.820	0.900	
25	0.61	0.790	0.900	
26	0.63	0.788	0.900	
59	0.59	0.819	0.900	
113	0.57	0.741	0.900	
115	0.56	0.779	0.900	
206	0.59	0.831	0.900	
207	0.58	0.794	0.900	
208	0.58	0.819	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.47 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.4 V	Deflect	14.6 V
Extract 2	-230.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 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	190 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9990	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-0.3 mm
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EM

Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1350 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		1498	14979.93			2.394	
89		8908	89081.00			2.459	
205		2625	26250.98			2.503	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	1551	1520	1471	1477	1472
89	9209	9066	8701	8750	8814
205	2737	2618	2565	2600	2605

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.47 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.4 V	Deflect	3.2 V
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US EPA Tune Check Report

Extract 2	-230.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	122	Axis Gain	0.9990	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	0.00		
Hardware Settings					
Torch					
Torch H	0.6 mm	Torch V	-0.3 mm		
EM					
Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1350 V