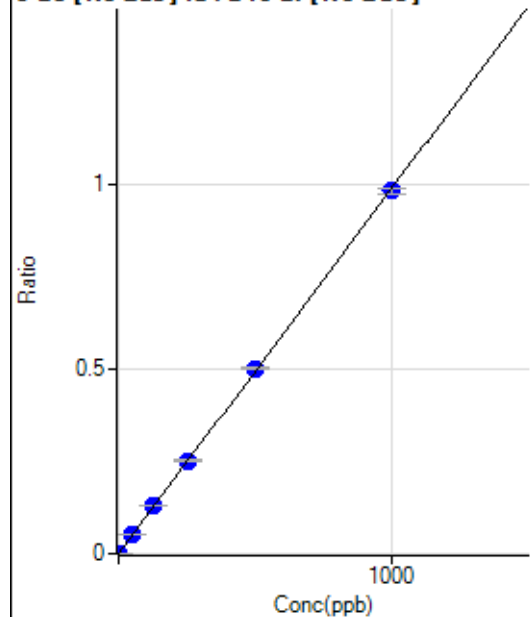


Calibration for 120SMPL.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7100924-MS2.b\
 Analysis File: P7100924-MS2.batch.bin
 DA Date-Time: 2024-10-10 20:00:49
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-10-09 13:17:18
2	005CALS.d	S02	2024-10-09 13:20:48
3	006CALS.d	S03	2024-10-09 13:24:11
4	007CALS.d	S04	2024-10-09 13:27:23
5	008CALS.d	S05	2024-10-09 13:30:25
6	009CALS.d	S06	2024-10-09 13:33:19
7	010CALS.d	S07	2024-10-09 13:36:11
8	011CALS.d	S08	2024-10-09 13:38:57

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	32.22	0.0000	P	34.2
2	☐	1.000	1.126	1028.93	0.0011	P	12.5
3	☐	50.000	53.676	47922.39	0.0531	P	1.6
4	☐	125.000	130.198	116854.57	0.1287	P	0.9
5	☐	250.000	254.643	223930.67	0.2516	P	0.7
6	☐	500.000	507.507	433411.34	0.5014	P	0.8
7	☐	1000.000	994.252	832355.82	0.9823	P	1.4
8	☐			307.79	0.0004	P	18.7

$$y = 9.8790E-004 * x + 3.6660E-005$$

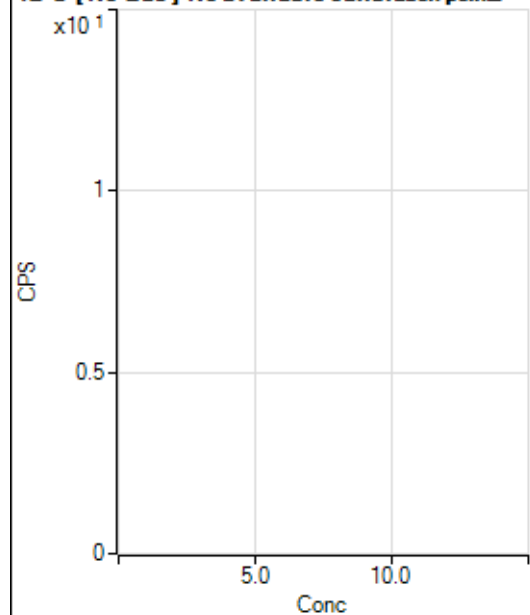
$$R = 0.9999$$

$$DL = 0.03807$$

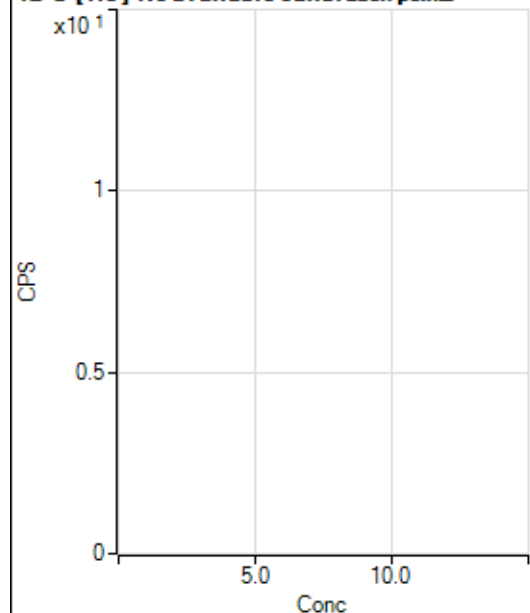
$$BEC = 0.03711$$

Weight: <None>

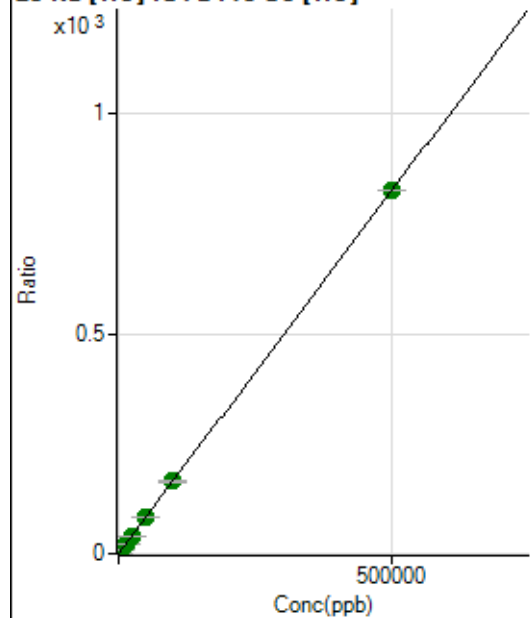
Min Conc: 0

12 C [No Gas] No available calibration points

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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7133.93	0.0351	P	0.5
2	☐	500.000	543.585	187768.41	0.9308	P	0.4
3	☐	5000.000	4892.514	1640645.46	8.0965	A	0.3
4	☐	12500.000	12380.401	3984717.16	20.4342	A	0.5
5	☐	25000.000	24854.030	7727619.33	40.9868	A	0.5
6	☐	50000.000	50460.262	15197306.85	83.1779	A	0.9
7	☐	100000.00	99618.647	30005104.00	164.1756	A	0.7
8	☐	500000.00	500041.56	149744703.3	823.9479	A	0.1

$$y = 0.0016 * x + 0.0351$$

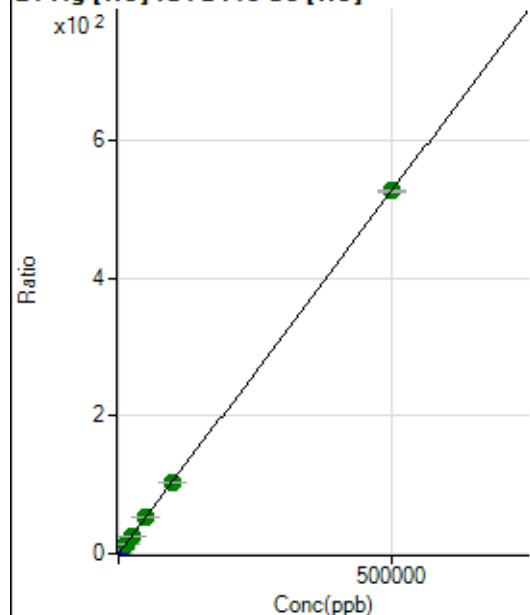
$$R = 1.0000$$

$$DL = 0.3034$$

$$BEC = 21.31$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1026.71	0.0051	P	6.7
2	☐	500.000	542.198	116151.87	0.5758	P	0.5
3	☐	5000.000	5064.340	1081163.04	5.3358	P	0.9
4	☐	12500.000	12489.339	2564554.28	13.1513	A	0.9
5	☐	25000.000	24960.000	4954361.31	26.2779	A	0.6
6	☐	50000.000	50314.880	9677499.02	52.9664	A	0.6
7	☐	100000.00	98355.543	18921912.63	103.5340	A	1.1
8	☐	500000.00	500298.98	95708007.46	526.6191	A	0.2

$$y = 0.0011 * x + 0.0051$$

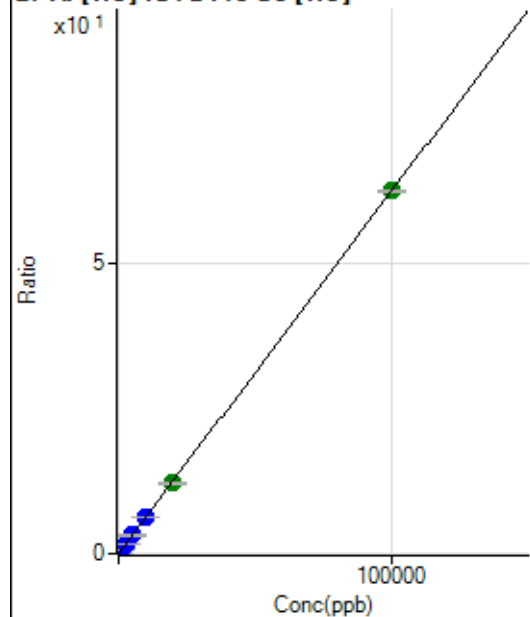
$$R = 1.0000$$

$$DL = 0.965$$

$$BEC = 4.803$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	213.34	0.0011	P	17.0
2	☐	20.000	19.649	2692.49	0.0133	P	1.9
3	☐	1000.000	1003.922	127518.47	0.6293	P	0.5
4	☐	2500.000	2514.106	307005.84	1.5744	P	0.8
5	☐	5000.000	5041.754	595050.21	3.1562	P	0.8
6	☐	10000.000	10086.395	1153492.14	6.3132	P	0.2
7	☐	20000.000	19497.870	2230201.67	12.2029	A	1.4
8	☐	100000.00	100089.30	11383680.94	62.6374	A	0.7

$$y = 6.2580E-004 * x + 0.0011$$

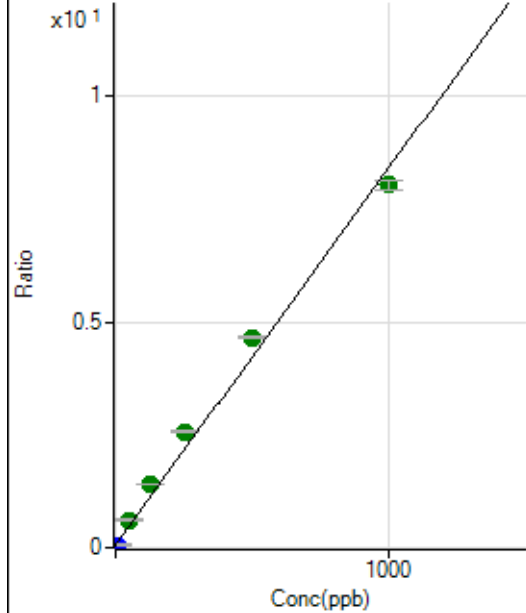
$$R = 1.0000$$

$$DL = 0.8578$$

$$BEC = 1.679$$

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	117612.23	0.0579	P	1.5
2	☐	10.000	0.690	130635.91	0.0637	P	1.1
3	☐	50.000	66.474	1244869.56	0.6129	A	2.7
4	☐	125.000	161.478	2801488.67	1.4062	A	1.0
5	☐	250.000	301.810	5014014.06	2.5779	A	0.6
6	☐	500.000	551.184	8598713.21	4.6600	A	0.9
7	☐	1000.000	956.165	14560387.98	8.0413	A	2.3
8	☐			297837.98	0.1654	P	12.6

$$y = 0.0083 * x + 0.0579$$

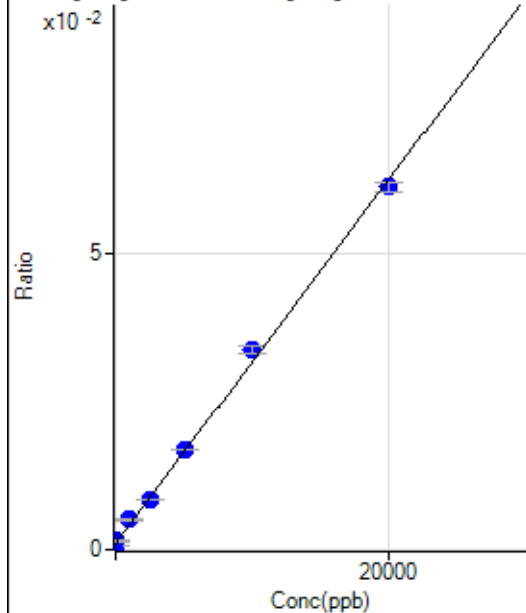
$$R = 0.9957$$

$$DL = 0.3153$$

$$BEC = 6.937$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-149.437	114.45	0.0006	P	14.0
2	☐	0.000	149.437	298.89	0.0015	P	12.1
3	☐	1000.000	1307.772	1022.27	0.0050	P	2.0
4	☐	2500.000	2414.877	1647.89	0.0085	P	1.4
5	☐	5000.000	5179.686	3197.03	0.0170	P	1.4
6	☐	10000.000	10656.431	6175.74	0.0338	P	3.5
7	☐	20000.000	19622.115	11217.52	0.0614	P	2.5
8	☐			106.67	0.0006	P	6.5

$$y = 3.0760E-006 * x + 0.0010$$

$$R = 0.9990$$

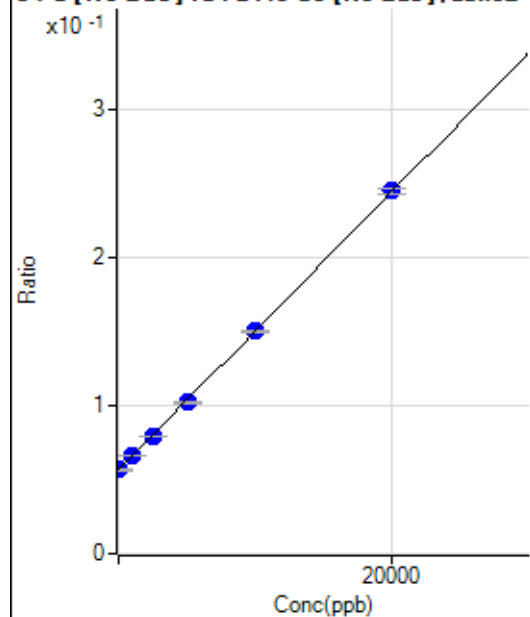
$$DL = 125.7$$

$$BEC = 332.5$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-7.627	114981.64	0.0566	P	1.2
2	☐	0.000	7.627	116452.70	0.0568	P	1.5
3	☐	1000.000	964.701	133535.85	0.0657	P	0.4
4	☐	2500.000	2389.803	157640.93	0.0791	P	0.4
5	☐	5000.000	4837.497	198588.65	0.1021	P	0.7
6	☐	10000.000	9989.960	277632.28	0.1505	P	1.1
7	☐	20000.000	20061.185	443552.67	0.2450	P	1.7
8	☐			96252.74	0.0534	P	1.5

$$y = 9.3862E-006 * x + 0.0567$$

R = 1.0000

DL = 247.4

BEC = 6040

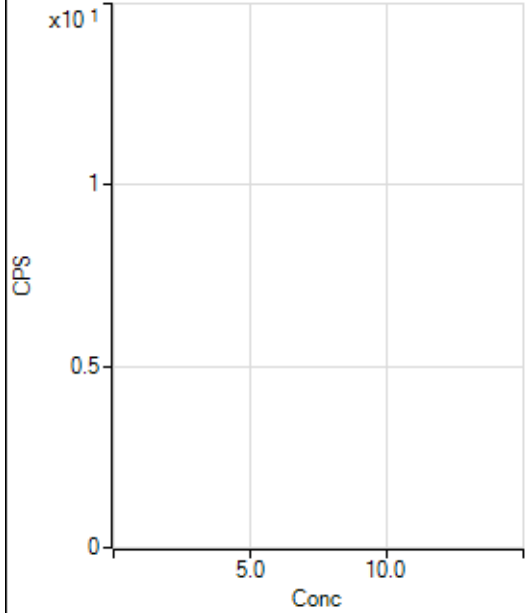
Weight: <None>

Min Conc: 0

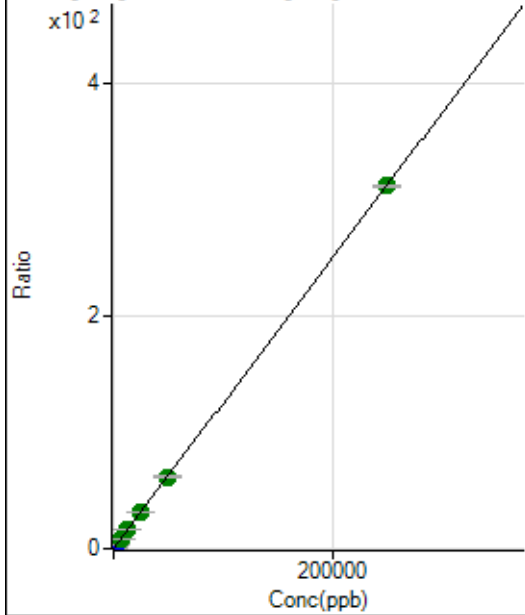
35 Cl [No Gas] No available calibration points



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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	33860.97	0.1667	P	1.4
2	☐	500.000	562.416	174961.44	0.8673	P	0.4
3	☐	2500.000	2754.746	729097.32	3.5982	P	0.7
4	☐	6250.000	6295.755	1561797.98	8.0092	A	0.9
5	☐	12500.000	12516.330	2970950.65	15.7580	A	0.6
6	☐	25000.000	25097.968	5742721.51	31.4306	A	1.0
7	☐	50000.000	49358.194	11267443.86	61.6510	A	1.3
8	☐	250000.00	250113.93	56653848.60	311.7274	A	0.6

$$y = 0.0012 * x + 0.1667$$

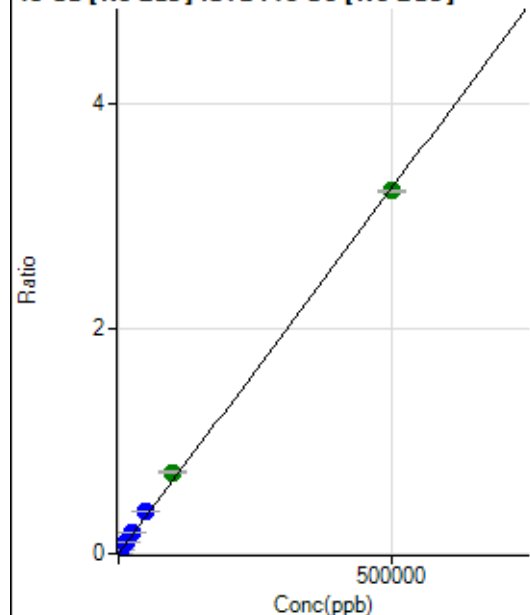
$$R = 1.0000$$

$$DL = 5.538$$

$$BEC = 133.8$$

Weight: <None>

Min Conc: 0

43 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	180.00	0.0001	P	18.4
2	☐	500.000	551.881	7540.81	0.0037	P	1.3
3	☐	5000.000	5890.367	77933.14	0.0384	P	0.4
4	☐	12500.000	14644.227	189802.78	0.0953	P	0.8
5	☐	25000.000	28560.176	361213.90	0.1857	P	1.0
6	☐	50000.000	57991.639	695594.94	0.3770	P	2.0
7	☐	100000.00	111195.38	1308602.62	0.7228	A	1.9
8	☐	500000.00	496721.18	5819003.11	3.2285	A	0.2

$$y = 6.4994\text{E-}006 * x + 8.8712\text{E-}005$$

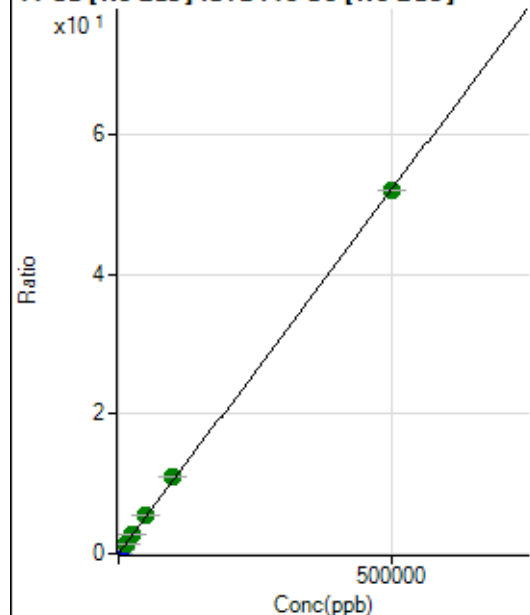
$$R = 0.9997$$

$$DL = 7.542$$

$$BEC = 13.65$$

Weight: <None>

Min Conc: 0

44 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2836.97	0.0014	P	8.1
2	☐	500.000	558.167	122289.00	0.0596	P	1.5
3	☐	5000.000	5709.336	1212245.71	0.5969	P	1.9
4	☐	12500.000	13389.916	2785173.98	1.3980	A	1.2
5	☐	25000.000	26068.445	5291290.69	2.7204	A	0.3
6	☐	50000.000	53249.042	10250473.60	5.5553	A	1.4
7	☐	100000.00	105656.05	19954728.87	11.0214	A	2.0
8	☐	500000.00	498461.06	93711015.27	51.9914	A	0.1

$$y = 1.0430\text{E-}004 * x + 0.0014$$

$$R = 0.9999$$

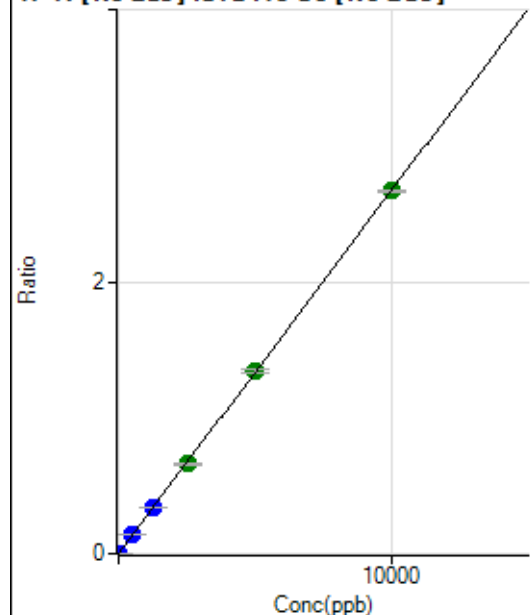
$$DL = 3.244$$

$$BEC = 13.39$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	72.22	0.0000	P	36.3
2	☐	5.000	6.004	3362.63	0.0016	P	6.8
3	☐	500.000	516.090	280067.38	0.1379	P	1.7
4	☐	1250.000	1282.113	682447.16	0.3425	P	0.5
5	☐	2500.000	2477.563	1287386.88	0.6619	A	1.8
6	☐	5000.000	5023.271	2475999.64	1.3420	A	2.2
7	☐	10000.000	9989.155	4831651.56	2.6686	A	0.5
8	☐			1142.28	0.0006	P	5.3

$$y = 2.6714\text{E-}004 * x + 3.5508\text{E-}005$$

$$R = 1.0000$$

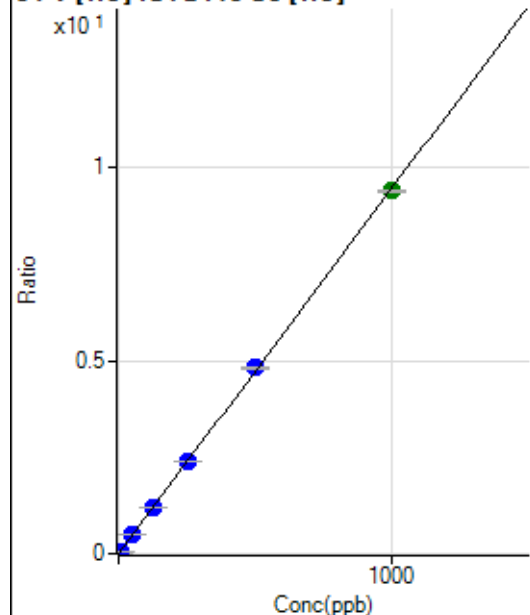
$$DL = 0.1446$$

$$BEC = 0.1329$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5.56	0.0000	P	91.9
2	☐	5.000	5.280	10064.54	0.0499	P	3.2
3	☐	50.000	50.544	96733.99	0.4774	P	1.3
4	☐	125.000	127.738	235257.91	1.2065	P	0.9
5	☐	250.000	254.100	452455.19	2.3999	P	1.0
6	☐	500.000	508.874	878150.11	4.8061	P	0.7
7	☐	1000.000	994.167	1716052.75	9.3895	A	0.3
8	☐			604.46	0.0033	P	13.5

$$y = 0.0094 * x + 2.7312\text{E-}005$$

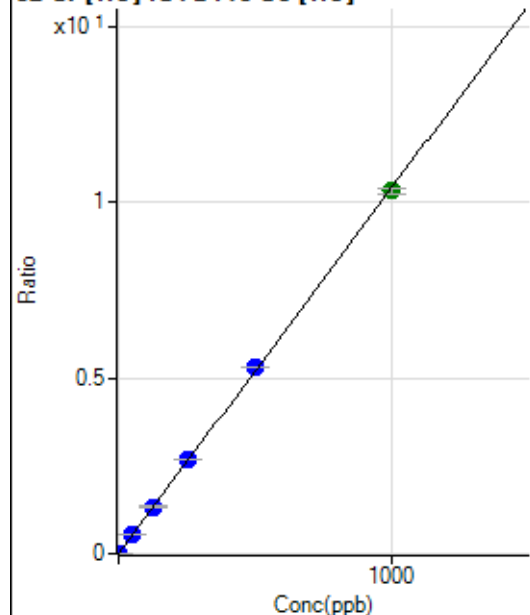
$$R = 0.9999$$

$$DL = 0.007975$$

$$BEC = 0.002892$$

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	246.67	0.0012	P	7.5
2	☐	2.000	2.199	4858.60	0.0241	P	1.2
3	☐	50.000	51.388	108504.32	0.5355	P	1.0
4	☐	125.000	128.670	261104.44	1.3390	P	0.5
5	☐	250.000	256.535	503089.23	2.6684	P	0.6
6	☐	500.000	511.066	971064.70	5.3147	P	0.4
7	☐	1000.000	992.304	1885736.73	10.3182	A	1.4
8	☐			6663.75	0.0367	P	2.0

$$y = 0.0104 * x + 0.0012$$

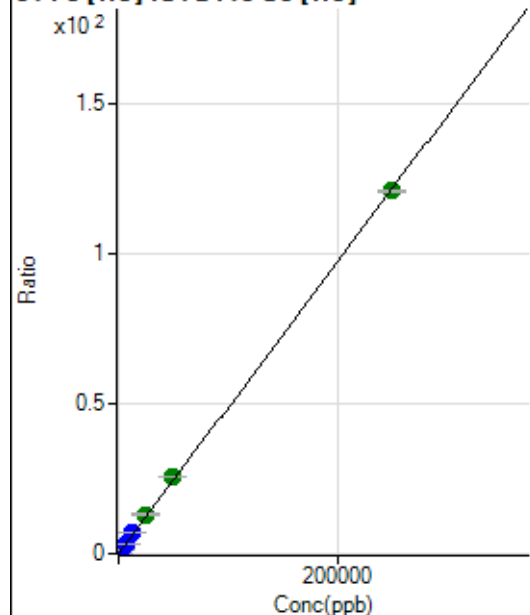
$$R = 0.9999$$

$$DL = 0.02612$$

$$BEC = 0.1168$$

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	1060.05	0.0052	P	3.9
2	☐	50.000	60.494	6979.44	0.0346	P	1.7
3	☐	2500.000	2807.753	277368.33	1.3689	P	1.8
4	☐	6250.000	7043.136	668088.58	3.4261	P	0.3
5	☐	12500.000	14055.799	1288115.55	6.8321	P	0.5
6	☐	25000.000	26986.220	2395758.40	13.1125	A	1.3
7	☐	50000.000	52968.323	4702916.32	25.7320	A	0.5
8	☐	250000.00	249107.01	21989945.23	120.9968	A	0.6

$$y = 4.8570E-004 * x + 0.0052$$

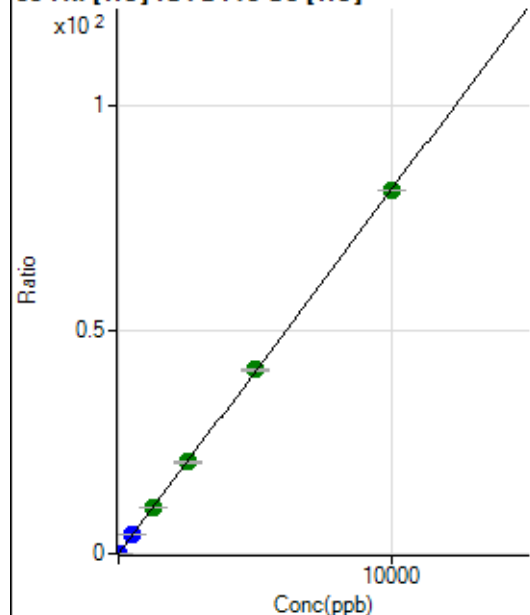
$$R = 0.9999$$

$$DL = 1.251$$

$$BEC = 10.74$$

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	414.45	0.0020	P	5.8
2	☐	1.000	0.895	1880.14	0.0093	P	1.9
3	☐	500.000	507.974	837612.15	4.1339	P	1.2
4	☐	1250.000	1259.953	1998851.08	10.2504	A	0.3
5	☐	2500.000	2516.808	3859994.67	20.4737	A	0.8
6	☐	5000.000	5058.096	7517534.82	41.1444	A	0.6
7	☐	10000.000	9965.107	14814413.95	81.0579	A	0.1
8	☐			8882.69	0.0489	P	1.6

$$y = 0.0081 * x + 0.0020$$

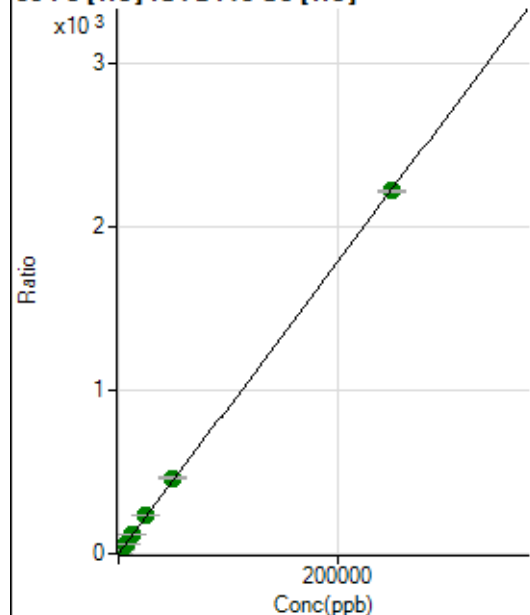
$$R = 1.0000$$

$$DL = 0.04388$$

$$BEC = 0.2509$$

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	6914.99	0.0340	P	0.7
2	☐	50.000	58.890	112509.97	0.5577	P	0.4
3	☐	2500.000	2640.120	4763880.17	23.5113	A	1.2
4	☐	6250.000	6642.270	11524661.08	59.1003	A	0.2
5	☐	12500.000	13276.623	22265969.67	118.0961	A	0.4
6	☐	25000.000	26490.923	43047511.03	235.6041	A	0.4
7	☐	50000.000	52159.362	84775308.18	463.8602	A	1.0
8	☐	250000.00	249368.99	403016860.6	2217.543	A	0.2

$$y = 0.0089 * x + 0.0340$$

$$R = 1.0000$$

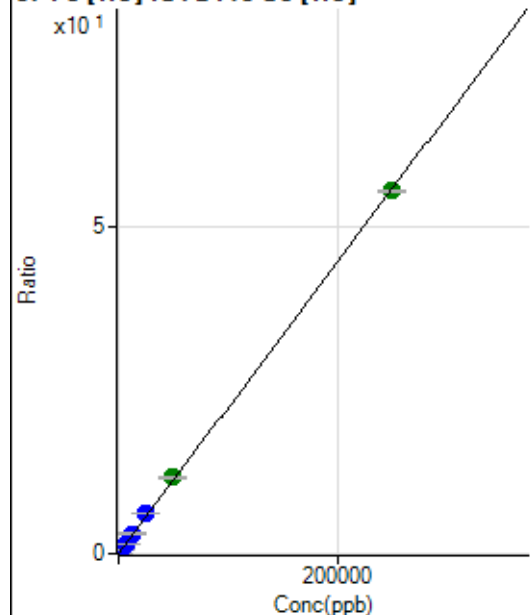
$$DL = 0.07854$$

$$BEC = 3.828$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	792.25	0.0039	P	1.4
2	☐	50.000	61.176	3533.78	0.0175	P	4.3
3	☐	2500.000	2759.355	125232.85	0.6180	P	1.0
4	☐	6250.000	6960.231	302842.59	1.5530	P	0.4
5	☐	12500.000	13819.771	580636.82	3.0797	P	0.9
6	☐	25000.000	27691.317	1126804.45	6.1671	P	0.3
7	☐	50000.000	52251.902	2126166.41	11.6335	A	0.5
8	☐	250000.00	249194.14	10080591.86	55.4667	A	0.3

$$y = 2.2257\text{E-}004 * x + 0.0039$$

$$R = 0.9999$$

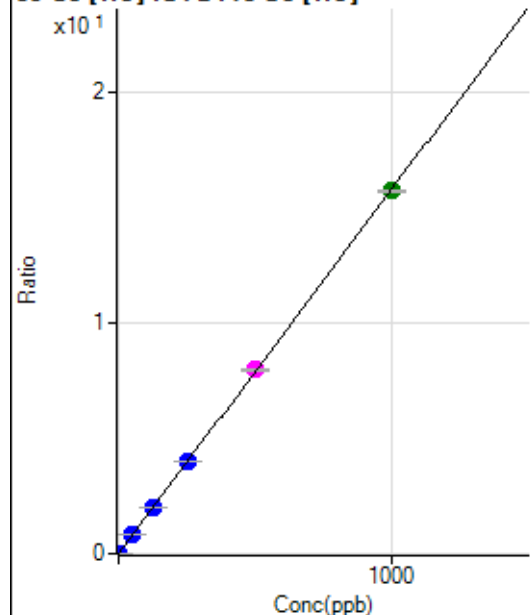
$$DL = 0.7396$$

$$BEC = 17.52$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.33	0.0003	P	4.6
2	☐	1.000	1.102	3571.57	0.0177	P	0.1
3	☐	50.000	50.886	162817.75	0.8035	P	0.6
4	☐	125.000	127.688	393084.05	2.0158	P	0.5
5	☐	250.000	252.227	750676.80	3.9816	P	0.6
6	☐	500.000	505.821	1458862.95	7.9845	M	0.9
7	☐	1000.000	996.152	2873777.01	15.7241	A	0.4
8	☐			7539.72	0.0415	P	3.3

$$y = 0.0158 * x + 3.1170\text{E-}004$$

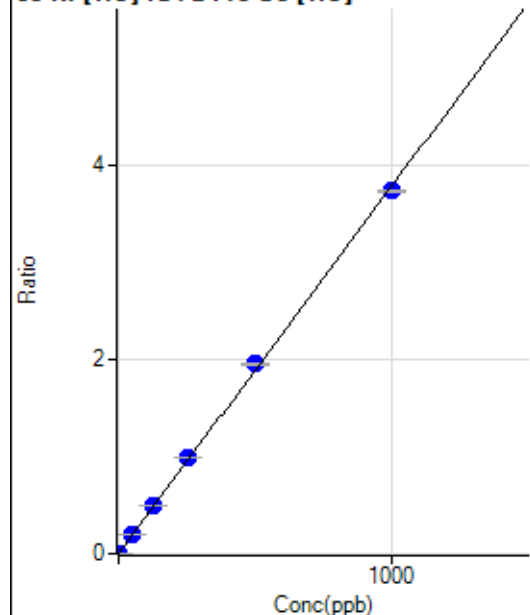
$$R = 1.0000$$

$$DL = 0.002704$$

$$BEC = 0.01975$$

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	72.22	0.0004	P	23.3
2	☐	1.000	1.052	873.37	0.0043	P	3.8
3	☐	50.000	54.114	41492.81	0.2048	P	1.0
4	☐	125.000	132.611	97751.30	0.5013	P	0.6
5	☐	250.000	260.297	185445.39	0.9836	P	0.8
6	☐	500.000	516.256	356375.52	1.9505	P	0.5
7	☐	1000.000	988.141	682253.84	3.7330	P	0.7
8	☐			2929.20	0.0161	P	3.2

$$y = 0.0038 * x + 3.5553E-004$$

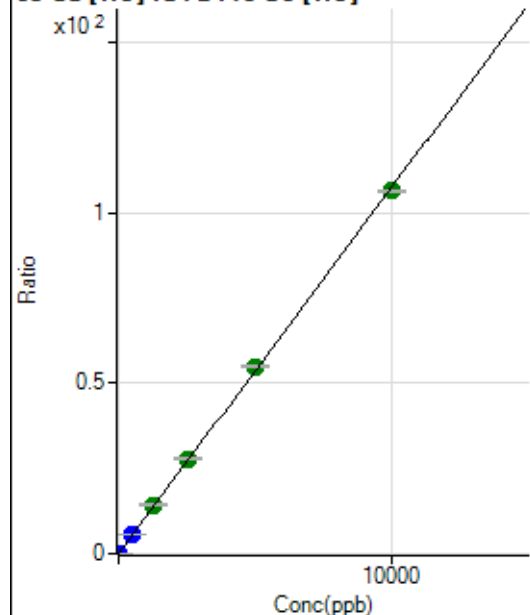
$$R = 0.9997$$

$$DL = 0.0658$$

$$BEC = 0.09412$$

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	567.79	0.0028	P	4.0
2	☐	2.000	1.965	4820.82	0.0239	P	0.1
3	☐	500.000	511.604	1113786.87	5.4970	P	1.5
4	☐	1250.000	1333.878	2793845.44	14.3275	A	1.4
5	☐	2500.000	2593.682	5251936.20	27.8568	A	1.1
6	☐	5000.000	5108.433	10023992.14	54.8631	A	1.3
7	☐	10000.000	9911.298	19453483.18	106.4419	A	0.7
8	☐			4265.09	0.0235	P	3.4

$$y = 0.0107 * x + 0.0028$$

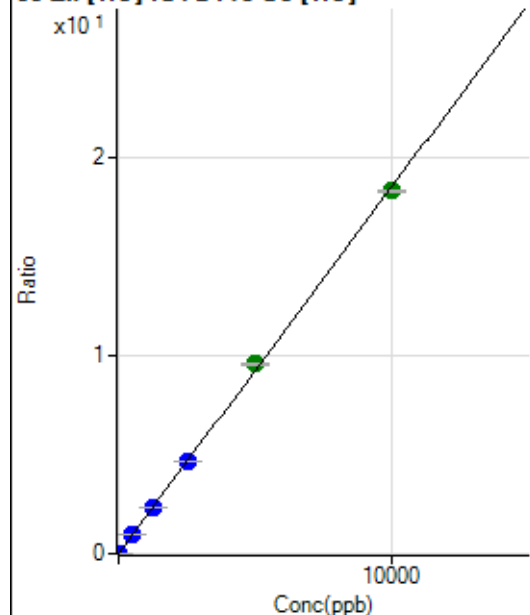
$$R = 0.9998$$

$$DL = 0.03155$$

$$BEC = 0.2603$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1288.96	0.0063	P	2.9
2	☐	5.000	2.249	2117.95	0.0105	P	3.4
3	☐	500.000	505.120	190232.77	0.9389	P	1.5
4	☐	1250.000	1275.787	460522.05	2.3616	P	0.5
5	☐	2500.000	2532.210	882571.90	4.6812	P	0.6
6	☐	5000.000	5174.338	1746567.23	9.5589	A	1.5
7	☐	10000.000	9901.300	3341911.34	18.2856	A	0.6
8	☐			1218.95	0.0067	P	1.4

$$y = 0.0018 * x + 0.0063$$

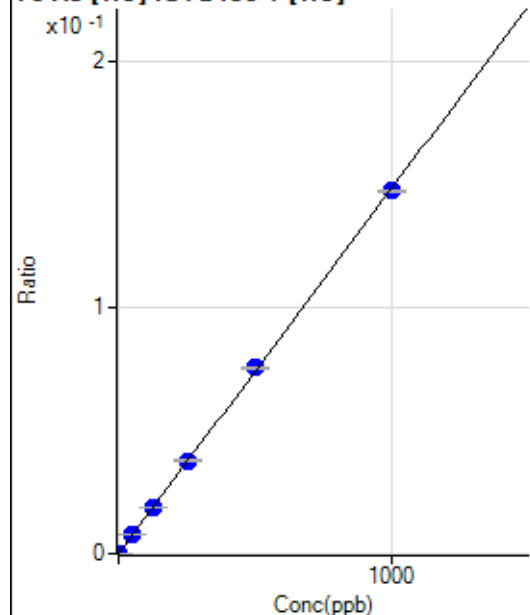
$$R = 0.9998$$

$$DL = 0.299$$

$$BEC = 3.437$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.44	0.0000	P	173.
2	☐	1.000	1.057	288.90	0.0002	P	9.1
3	☐	50.000	51.923	14055.61	0.0077	P	2.1
4	☐	125.000	127.664	33561.20	0.0190	P	1.4
5	☐	250.000	253.138	64311.68	0.0376	P	2.1
6	☐	500.000	509.991	126598.42	0.0758	P	0.7
7	☐	1000.000	993.791	245694.88	0.1477	P	0.8
8	☐			143.34	0.0001	P	14.6

$$y = 1.4859E-004 * x + 2.4614E-006$$

$$R = 0.9999$$

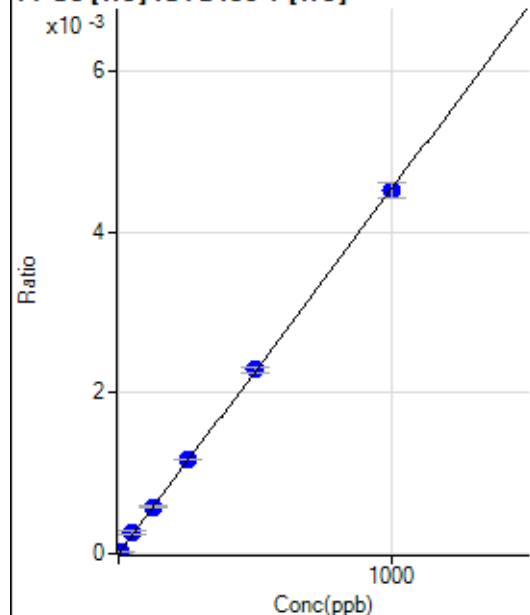
$$DL = 0.08607$$

$$BEC = 0.01656$$

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	☐	5.000	5.005	42.22	0.0000	P	24.1
3	☐	50.000	57.503	476.68	0.0003	P	19.7
4	☐	125.000	128.463	1032.27	0.0006	P	6.9
5	☐	250.000	258.406	2006.82	0.0012	P	0.7
6	☐	500.000	504.367	3826.09	0.0023	P	3.0
7	☐	1000.000	994.907	7510.86	0.0045	P	4.2
8	☐			2.22	0.0000	P	86.6

$$y = 4.5383\text{E-}006 * x + 6.1490\text{E-}007$$

$$R = 0.9999$$

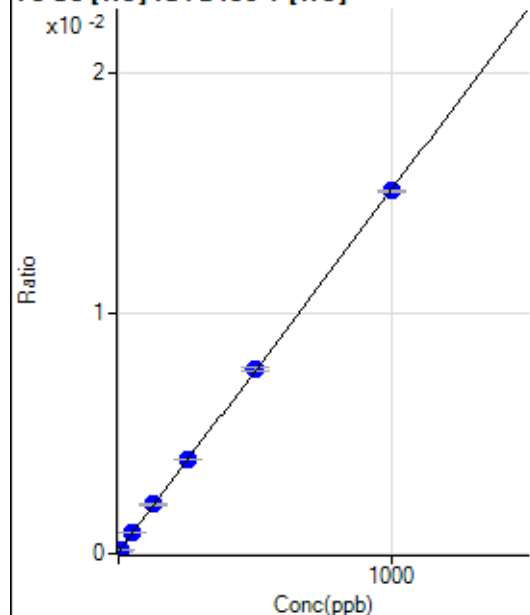
$$DL = 0.704$$

$$BEC = 0.1355$$

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	145.56	0.0001	P	12.8
2	☐	5.000	4.599	271.12	0.0001	P	15.7
3	☐	50.000	51.258	1554.54	0.0009	P	2.8
4	☐	125.000	130.417	3621.59	0.0020	P	1.0
5	☐	250.000	253.392	6673.79	0.0039	P	0.7
6	☐	500.000	503.269	12816.74	0.0077	P	2.2
7	☐	1000.000	996.779	25146.94	0.0151	P	0.4
8	☐			115.56	0.0001	P	34.2

$$y = 1.5082\text{E-}005 * x + 8.0487\text{E-}005$$

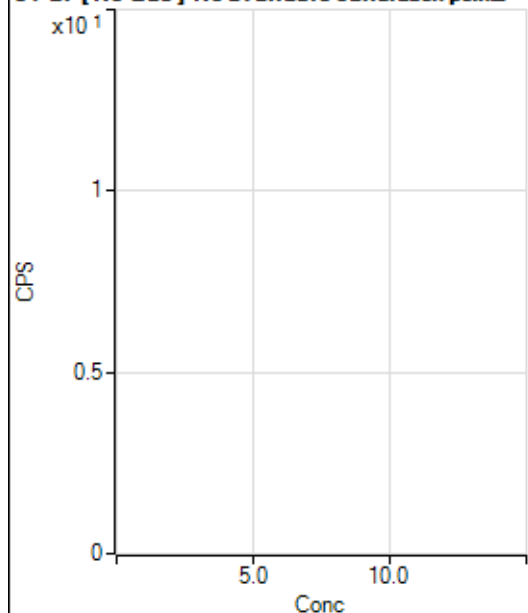
$$R = 1.0000$$

$$DL = 2.057$$

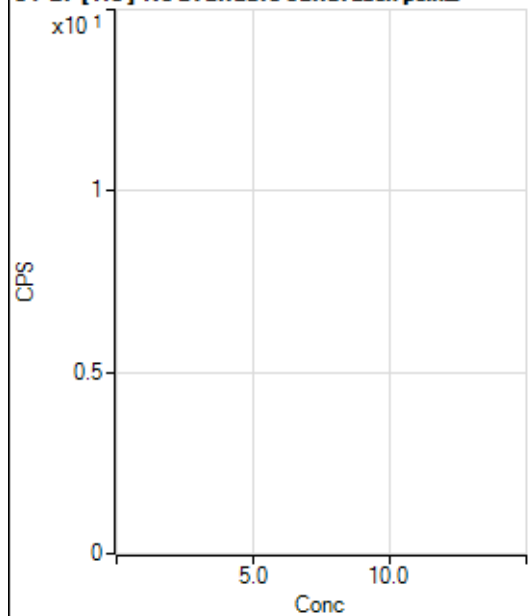
$$BEC = 5.337$$

Weight: <None>

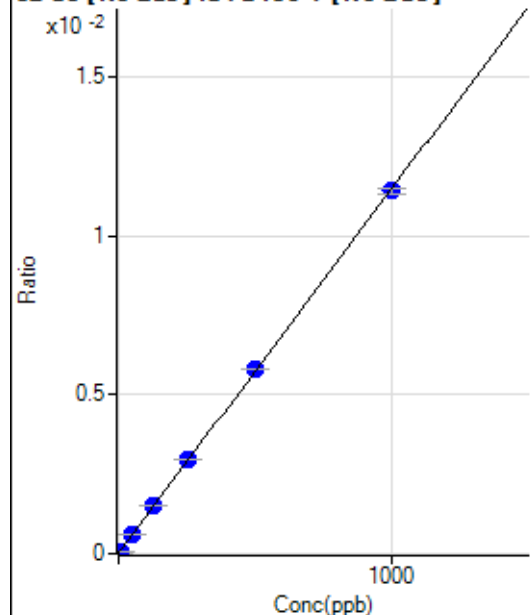
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6999.51		P	2.4
2	☐			6969.47		P	3.8
3	☐			6851.64		P	2.2
4	☐			6649.34		P	2.7
5	☐			6401.44		P	2.6
6	☐			6081.31		P	2.4
7	☐			5827.88		P	3.0
8	☐			6042.41		P	2.4

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.78		P	10.7
2	☐			42.22		P	9.1
3	☐			55.55		P	24.2
4	☐			47.78		P	8.1
5	☐			32.22		P	23.9
6	☐			37.78		P	27.0
7	☐			53.33		P	22.5
8	☐			46.67		P	25.8

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	141.61	0.0000	P	3.6
2	☐	5.000	5.122	534.99	0.0001	P	3.4
3	☐	50.000	52.058	4103.69	0.0006	P	3.3
4	☐	125.000	129.749	9901.21	0.0015	P	1.4
5	☐	250.000	257.806	19092.73	0.0030	P	0.9
6	☐	500.000	505.112	36249.75	0.0058	P	0.7
7	☐	1000.000	994.795	70126.89	0.0114	P	1.3
8	☐			131.60	0.0000	P	15.9

$$y = 1.1445E-005 * x + 2.1379E-005$$

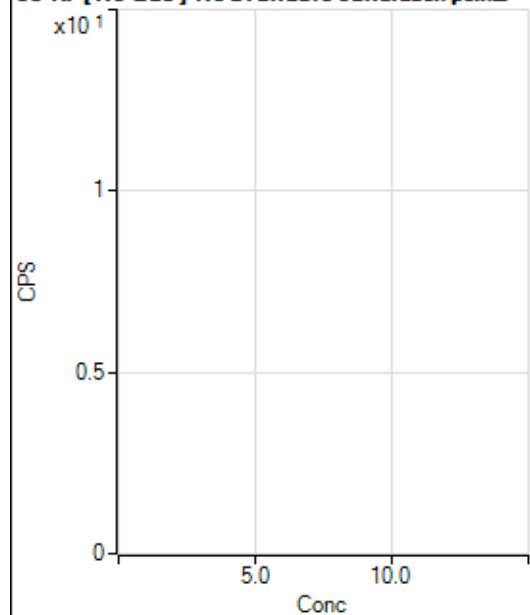
$$R = 0.9999$$

$$DL = 0.2$$

$$BEC = 1.868$$

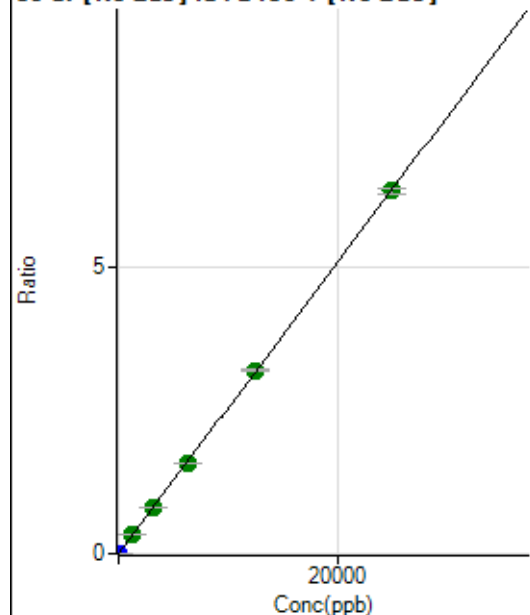
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			85.55		P	8.1
2	☐			77.78		P	8.9
3	☐			94.44		P	8.1
4	☐			98.89		P	25.5
5	☐			93.33		P	28.4
6	☐			111.11		P	20.4
7	☐			114.44		P	24.8
8	☐			151.11		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	162.23	0.0000	P	19.8
2	☐	1.000	1.028	1906.81	0.0003	P	5.4
3	☐	1250.000	1266.453	2135903.44	0.3212	A	1.0
4	☐	3125.000	3153.090	5255573.81	0.7996	A	0.5
5	☐	6250.000	6233.831	10155719.08	1.5809	A	1.2
6	☐	12500.000	12578.151	19927614.98	3.1897	A	1.0
7	☐	25000.000	24960.633	38914208.31	6.3298	A	1.5
8	☐			7292.98	0.0013	P	5.6

$$y = 2.5359\text{E-}004 * x + 2.4501\text{E-}005$$

$$R = 1.0000$$

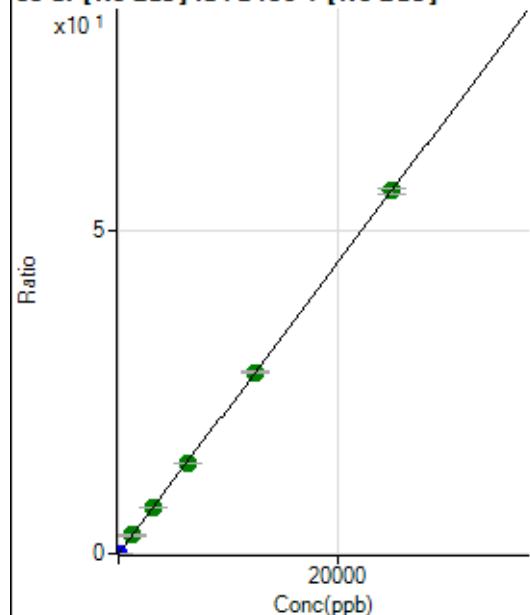
$$DL = 0.0573$$

$$BEC = 0.09662$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	213.34	0.0000	P	12.7
2	☐	1.000	1.052	15975.42	0.0024	P	1.5
3	☐	1250.000	1263.963	18818966.25	2.8298	A	1.4
4	☐	3125.000	3145.728	46288659.31	7.0426	A	0.7
5	☐	6250.000	6235.180	89676466.44	13.9592	A	1.3
6	☐	12500.000	12481.385	174578264.0	27.9431	A	1.4
7	☐	25000.000	25009.723	344228070.4	55.9913	A	1.4
8	☐			64854.62	0.0111	P	5.6

$$y = 0.0022 * x + 3.2240\text{E-}005$$

$$R = 1.0000$$

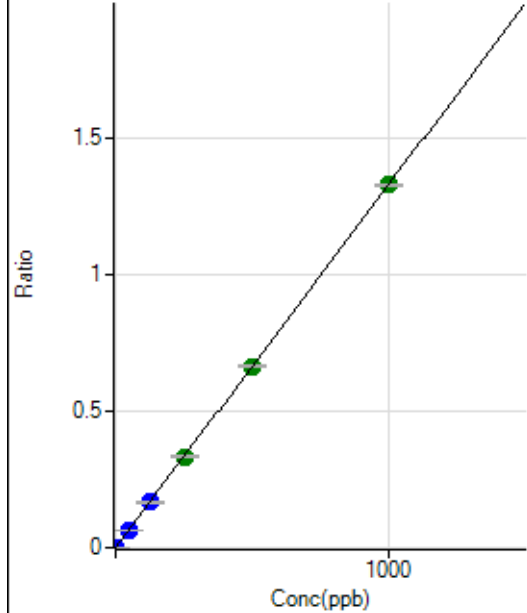
$$DL = 0.005486$$

$$BEC = 0.0144$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	432.23	0.0001	P	14.3
2	☐	1.000	1.044	9733.31	0.0015	P	1.2
3	☐	50.000	49.899	442089.35	0.0665	P	0.1
4	☐	125.000	124.531	1089768.13	0.1658	P	0.6
5	☐	250.000	250.481	2142059.24	0.3334	A	1.2
6	☐	500.000	500.264	4160133.65	0.6659	A	0.7
7	☐	1000.000	999.811	8181162.03	1.3307	A	0.8
8	☐			4828.61	0.0008	P	0.3

$$y = 0.0013 * x + 6.5308E-005$$

$$R = 1.0000$$

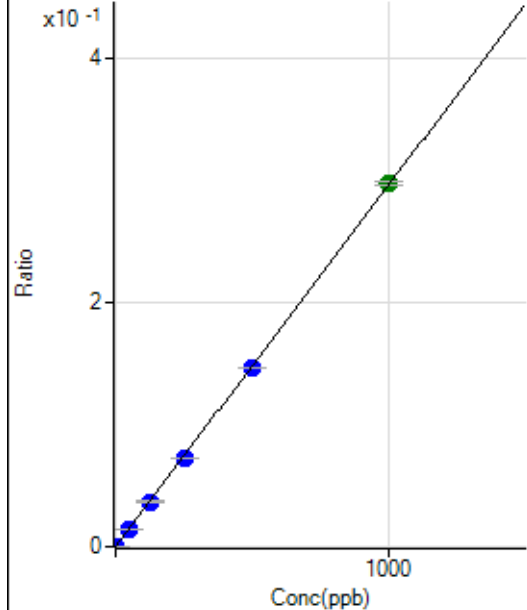
$$DL = 0.021$$

$$BEC = 0.04907$$

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	81.11	0.0000	P	23.1
2	☐	1.000	1.030	2125.73	0.0003	P	3.7
3	☐	50.000	49.895	98470.70	0.0148	P	1.1
4	☐	125.000	124.797	243283.91	0.0370	P	0.5
5	☐	250.000	245.384	467493.00	0.0728	P	1.5
6	☐	500.000	495.221	917475.61	0.1469	P	0.5
7	☐	1000.000	1003.574	1829500.86	0.2976	A	0.9
8	☐			1068.94	0.0002	P	4.5

$$y = 2.9651E-004 * x + 1.2242E-005$$

$$R = 1.0000$$

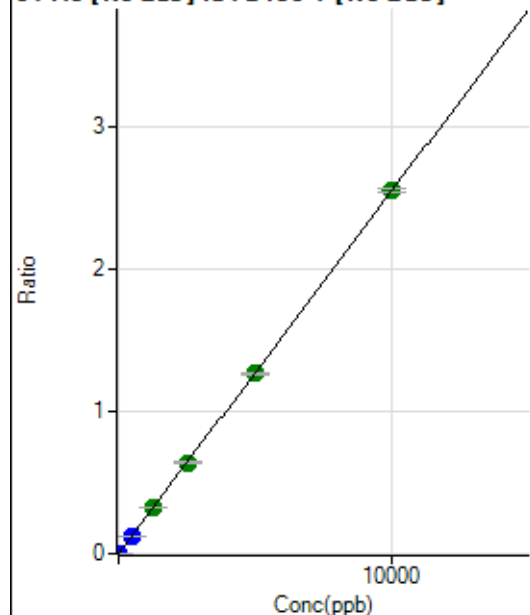
$$DL = 0.02867$$

$$BEC = 0.04129$$

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	171.11	0.0000	P	15.5
2	☐	5.000	6.616	11456.77	0.0017	P	2.1
3	☐	500.000	496.419	842104.80	0.1266	P	1.1
4	☐	1250.000	1268.563	2126363.04	0.3235	A	0.8
5	☐	2500.000	2496.022	4089270.81	0.6366	A	2.1
6	☐	5000.000	4970.705	7920078.21	1.2677	A	1.0
7	☐	10000.000	10013.500	15699721.29	2.5537	A	0.9
8	☐			5423.28	0.0009	P	2.2

$$y = 2.5502\text{E-}004 * x + 2.5818\text{E-}005$$

$$R = 1.0000$$

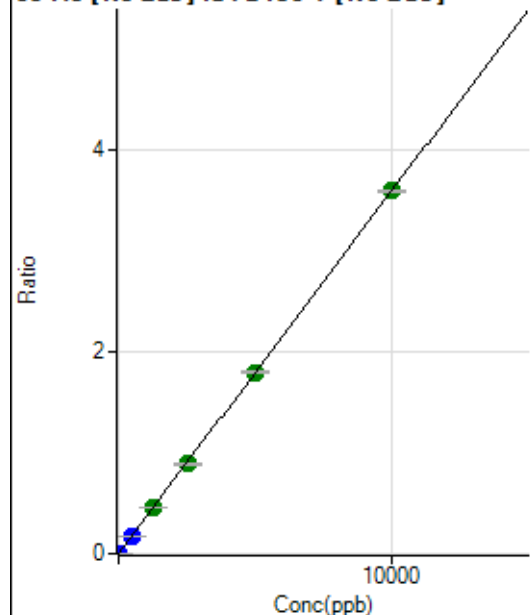
$$DL = 0.04706$$

$$BEC = 0.1012$$

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	26.67	0.0000	P	12.7
2	☐	5.000	5.753	13824.40	0.0021	P	1.2
3	☐	500.000	496.064	1183000.30	0.1779	P	0.8
4	☐	1250.000	1263.167	2977003.01	0.4530	A	0.5
5	☐	2500.000	2474.008	5699026.93	0.8871	A	1.8
6	☐	5000.000	4996.215	11193315.25	1.7916	A	0.9
7	☐	10000.000	10006.941	22060535.50	3.5883	A	0.7
8	☐			6090.22	0.0010	P	0.6

$$y = 3.5859\text{E-}004 * x + 4.0274\text{E-}006$$

$$R = 1.0000$$

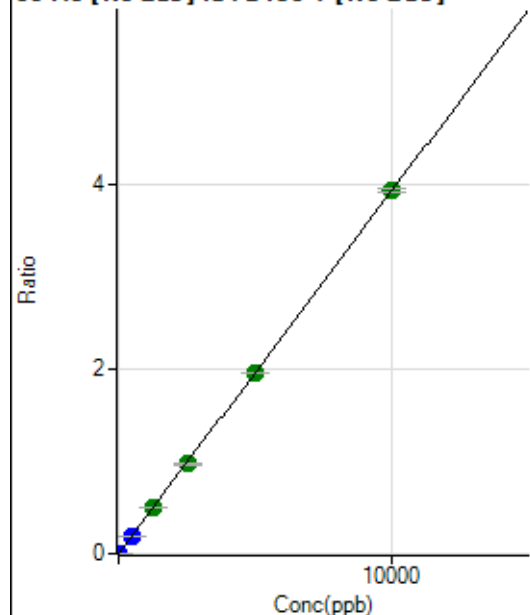
$$DL = 0.004295$$

$$BEC = 0.01123$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	65.55	0.0000	P	21.4
2	☐	5.000	5.809	15330.35	0.0023	P	1.9
3	☐	500.000	496.922	1298229.85	0.1952	P	0.8
4	☐	1250.000	1257.262	3246009.05	0.4939	A	0.6
5	☐	2500.000	2484.467	6269553.52	0.9760	A	1.7
6	☐	5000.000	4987.644	12240518.29	1.9592	A	0.9
7	☐	10000.000	10009.307	24172512.14	3.9319	A	0.9
8	☐			10887.47	0.0019	P	3.8

$$y = 3.9282\text{E-}004 * x + 9.9107\text{E-}006$$

$$R = 1.0000$$

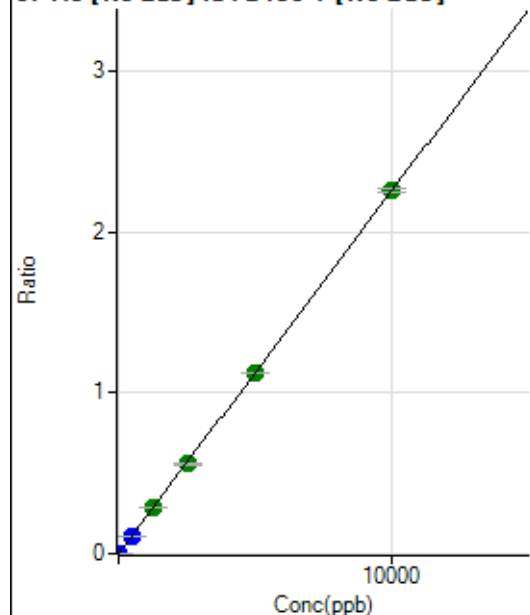
$$DL = 0.01617$$

$$BEC = 0.02523$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18.89	0.0000	P	27.8
2	☐	5.000	5.708	8630.40	0.0013	P	0.8
3	☐	500.000	498.003	746995.36	0.1123	P	1.0
4	☐	1250.000	1252.880	1857263.11	0.2826	A	0.4
5	☐	2500.000	2491.345	3609595.02	0.5619	A	2.1
6	☐	5000.000	4983.917	7022645.31	1.1241	A	0.6
7	☐	10000.000	10009.945	13879589.79	2.2576	A	0.9
8	☐			3720.52	0.0006	P	5.9

$$y = 2.2554\text{E-}004 * x + 2.8570\text{E-}006$$

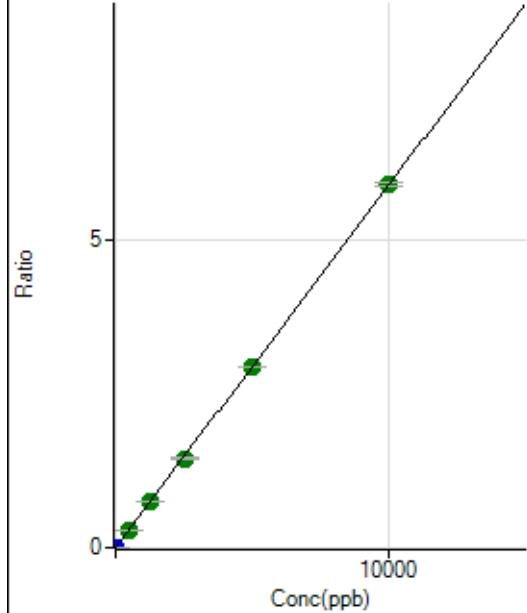
$$R = 1.0000$$

$$DL = 0.01055$$

$$BEC = 0.01267$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	37.78	0.0000	P	18.3
2	☐	5.000	5.630	22215.84	0.0033	P	1.7
3	☐	500.000	499.432	1956154.42	0.2941	A	1.6
4	☐	1250.000	1255.325	4858958.51	0.7393	A	0.5
5	☐	2500.000	2468.512	9338642.15	1.4537	A	2.2
6	☐	5000.000	4980.730	18325520.28	2.9332	A	0.2
7	☐	10000.000	10016.870	36266299.46	5.8991	A	1.0
8	☐			9195.17	0.0016	P	4.0

$$y = 5.8891\text{E-}004 * x + 5.7036\text{E-}006$$

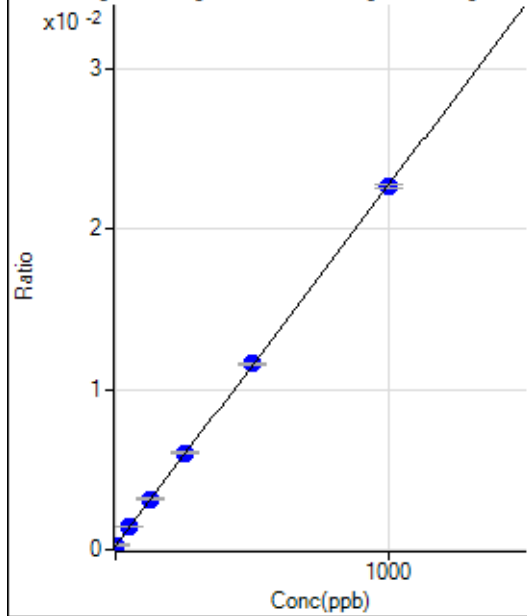
$$R = 1.0000$$

$$DL = 0.005328$$

$$BEC = 0.009685$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1630.11	0.0003	P	3.1
2	☐	1.000	1.276	1864.58	0.0003	P	4.3
3	☐	50.000	53.997	9165.19	0.0015	P	1.4
4	☐	125.000	128.861	19771.33	0.0032	P	1.4
5	☐	250.000	256.708	37440.41	0.0060	P	1.3
6	☐	500.000	504.352	70431.82	0.0116	P	0.8
7	☐	1000.000	995.464	136467.95	0.0226	P	1.0
8	☐			1574.54	0.0003	P	3.7

$$y = 2.2439\text{E-}005 * x + 2.6636\text{E-}004$$

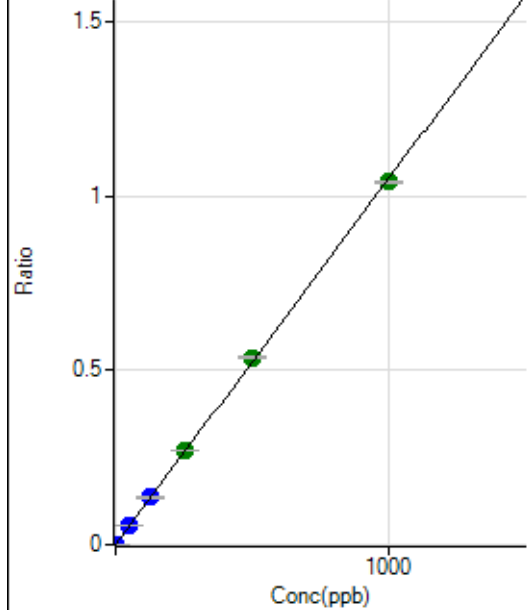
$$R = 1.0000$$

$$DL = 1.096$$

$$BEC = 11.87$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	45.56	0.0000	P	10.7
2	☐	1.000	1.009	6739.39	0.0011	P	1.2
3	☐	50.000	52.947	344567.67	0.0556	P	0.3
4	☐	125.000	128.895	846719.07	0.1352	P	0.5
5	☐	250.000	257.373	1677714.39	0.2701	A	1.3
6	☐	500.000	511.593	3263927.24	0.5368	A	1.5
7	☐	1000.000	991.726	6282402.89	1.0406	A	0.8
8	☐			958.93	0.0002	P	14.7

$$y = 0.0010 * x + 7.4404E-006$$

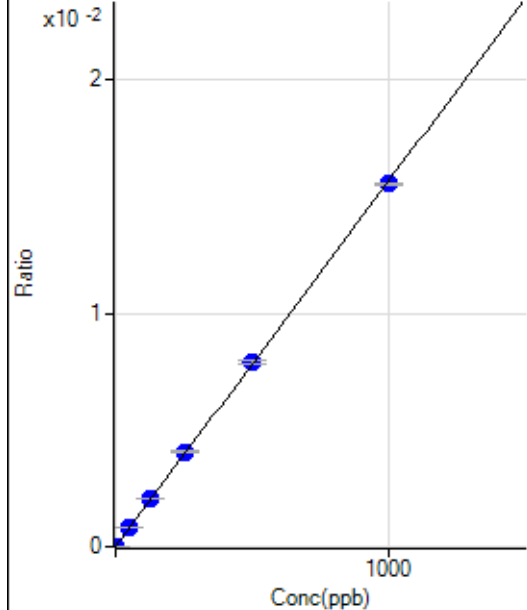
$$R = 0.9999$$

$$DL = 0.002273$$

$$BEC = 0.007091$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.44	0.0000	P	43.9
2	☐	1.000	1.109	114.45	0.0000	P	14.7
3	☐	50.000	53.647	5215.43	0.0008	P	1.9
4	☐	125.000	132.415	12989.22	0.0021	P	0.7
5	☐	250.000	259.708	25276.54	0.0041	P	2.3
6	☐	500.000	507.288	48317.84	0.0079	P	2.1
7	☐	1000.000	992.820	93891.06	0.0156	P	0.6
8	☐			51.11	0.0000	P	19.7

$$y = 1.5663E-005 * x + 7.2682E-007$$

$$R = 0.9999$$

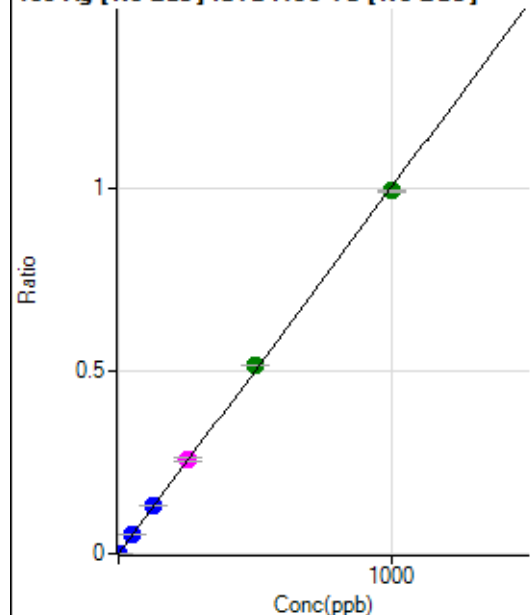
$$DL = 0.06105$$

$$BEC = 0.0464$$

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	18.89	0.0000	P	26.5
2	☐	1.000	0.988	6283.64	0.0010	P	2.2
3	☐	50.000	53.171	330581.10	0.0533	P	0.6
4	☐	125.000	128.973	809439.96	0.1293	P	0.6
5	☐	250.000	257.800	1605520.51	0.2584	M	3.7
6	☐	500.000	515.088	3139714.95	0.5164	A	0.4
7	☐	1000.000	989.851	5990901.72	0.9923	A	0.4
8	☐			933.38	0.0002	P	15.5

$$y = 0.0010 * x + 3.0830E-006$$

$$R = 0.9998$$

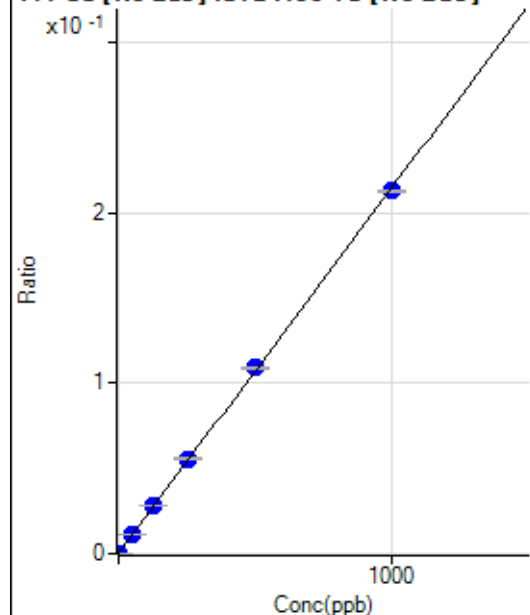
$$DL = 0.002442$$

$$BEC = 0.003075$$

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	1142.41	0.0002	P	3.5
2	☐	1.000	1.176	2771.86	0.0004	P	4.0
3	☐	50.000	53.939	72780.76	0.0117	P	0.7
4	☐	125.000	132.192	178381.49	0.0285	P	0.6
5	☐	250.000	258.876	345538.32	0.0556	P	1.0
6	☐	500.000	507.683	662129.87	0.1089	P	0.5
7	☐	1000.000	992.844	1284669.67	0.2128	P	0.7
8	☐			1310.85	0.0002	P	4.8

$$y = 2.1413E-004 * x + 1.8667E-004$$

$$R = 0.9999$$

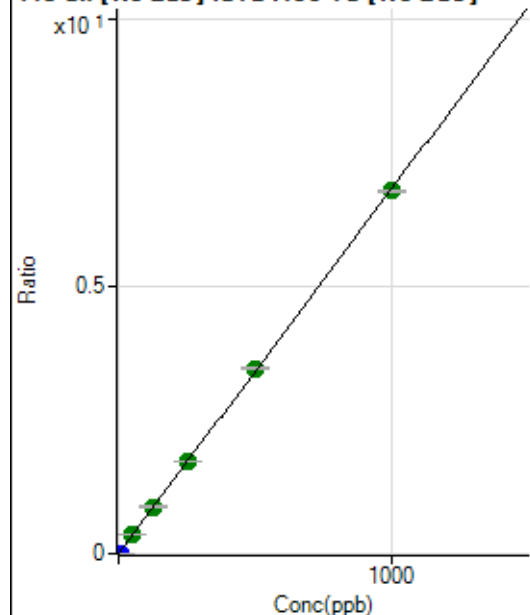
$$DL = 0.09274$$

$$BEC = 0.8718$$

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	1094.50	0.0002	P	6.4
2	☐	5.000	0.553	24992.82	0.0040	P	0.6
3	☐	50.000	52.878	2238315.19	0.3609	A	1.0
4	☐	125.000	129.086	5513953.87	0.8808	A	1.0
5	☐	250.000	252.902	10719374.29	1.7254	A	1.5
6	☐	500.000	507.644	21058138.16	3.4633	A	0.9
7	☐	1000.000	994.820	40974978.83	6.7867	A	0.9
8	☐			8382.51	0.0015	P	2.2

$$y = 0.0068 * x + 1.7887E-004$$

$$R = 0.9999$$

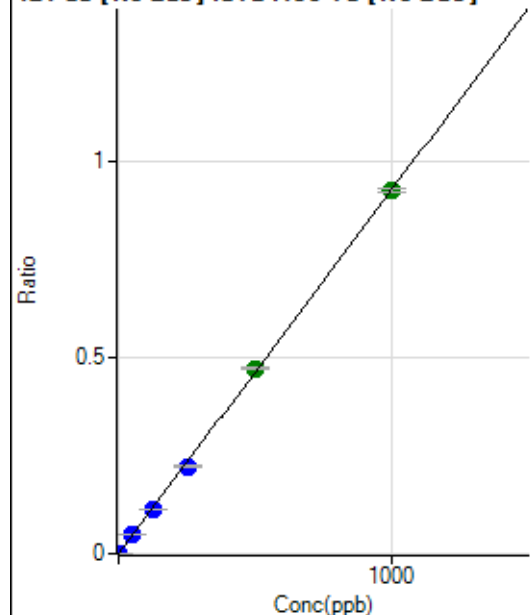
$$DL = 0.005013$$

$$BEC = 0.02622$$

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	74.45	0.0000	P	29.7
2	☐	2.000	2.015	11880.54	0.0019	P	0.6
3	☐	50.000	54.891	315527.67	0.0509	P	0.4
4	☐	125.000	122.047	708124.43	0.1131	P	0.7
5	☐	250.000	239.742	1380298.12	0.2222	P	1.1
6	☐	500.000	509.700	2872074.16	0.4723	A	1.5
7	☐	1000.000	997.839	5582930.75	0.9247	A	1.0
8	☐			3334.86	0.0006	P	4.7

$$y = 9.2669E-004 * x + 1.2146E-005$$

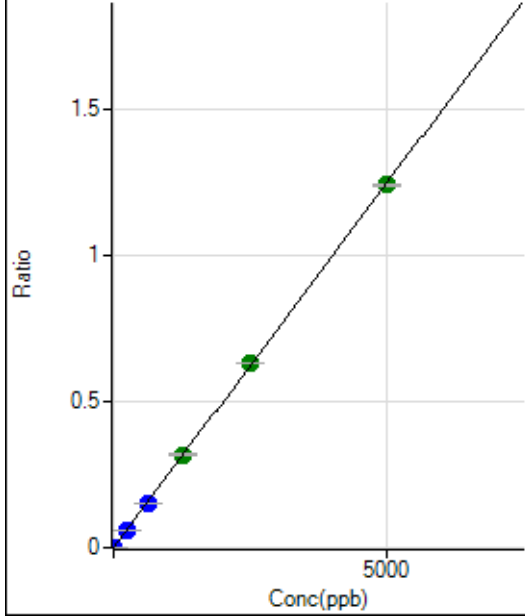
$$R = 0.9999$$

$$DL = 0.01169$$

$$BEC = 0.01311$$

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	67.78	0.0000	P	5.3
2	☐	10.000	9.687	15357.25	0.0024	P	1.0
3	☐	250.000	244.083	377877.56	0.0609	P	0.5
4	☐	625.000	601.460	939897.41	0.1501	P	0.9
5	☐	1250.000	1273.757	1975248.74	0.3179	A	1.2
6	☐	2500.000	2531.682	3842380.15	0.6319	A	0.8
7	☐	5000.000	4981.459	7506958.98	1.2434	A	0.6
8	☐			4620.79	0.0008	P	3.9

$$y = 2.4960E-004 * x + 1.1072E-005$$

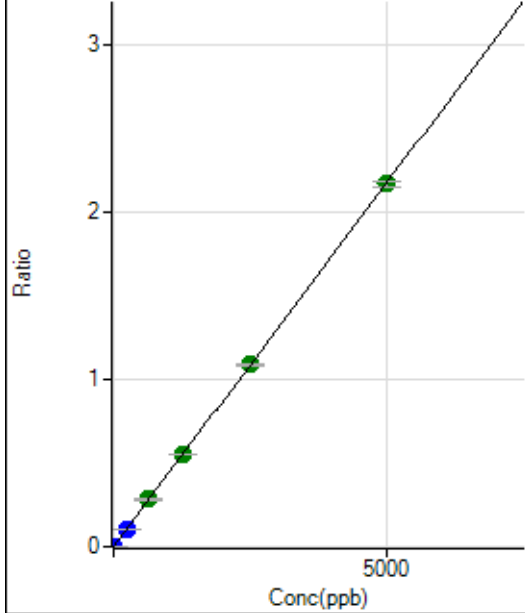
$$R = 0.9999$$

$$DL = 0.007089$$

$$BEC = 0.04436$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	101.11	0.0000	P	19.4
2	☐	10.000	9.828	27093.62	0.0043	P	0.8
3	☐	250.000	244.126	657733.65	0.1061	P	0.6
4	☐	625.000	649.523	1766432.09	0.2821	A	0.6
5	☐	1250.000	1272.178	3433093.35	0.5526	A	0.9
6	☐	2500.000	2502.411	6609176.43	1.0870	A	1.4
7	☐	5000.000	4990.479	13087639.81	2.1677	A	1.6
8	☐			8076.81	0.0014	P	3.8

$$y = 4.3436E-004 * x + 1.6505E-005$$

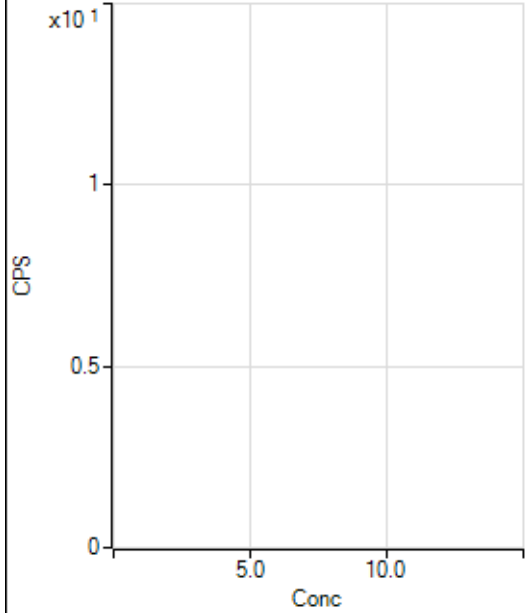
$$R = 1.0000$$

$$DL = 0.02213$$

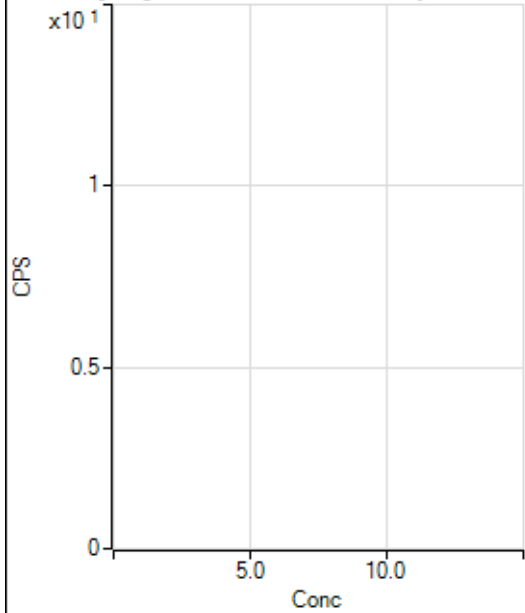
$$BEC = 0.038$$

Weight: <None>

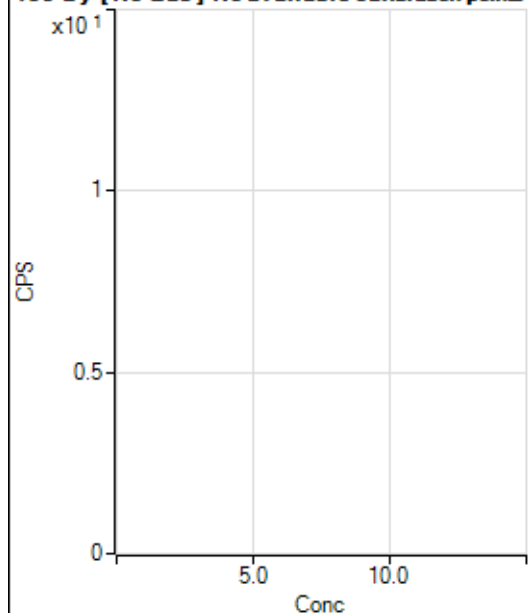
Min Conc: 0

150 Nd [No Gas] No available calibration points

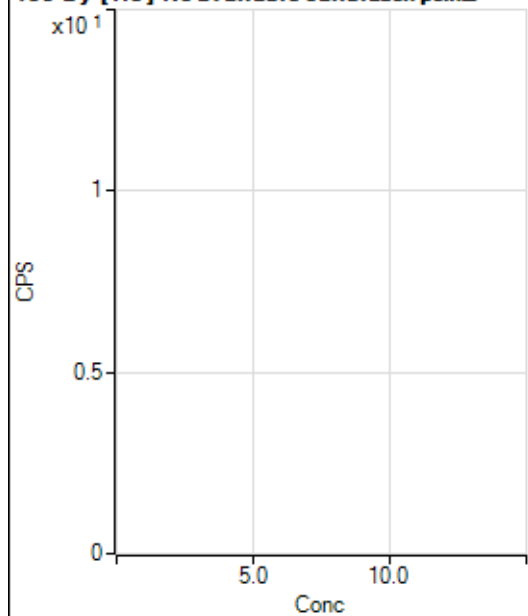
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	91.6
2	☐			2.22		P	86.6
3	☐			34.44		P	24.3
4	☐			66.67		P	20.0
5	☐			125.56		P	1.5
6	☐			237.78		P	2.1
7	☐			481.13		P	11.8
8	☐			125.56		P	8.1

150 Nd [He] No available calibration points

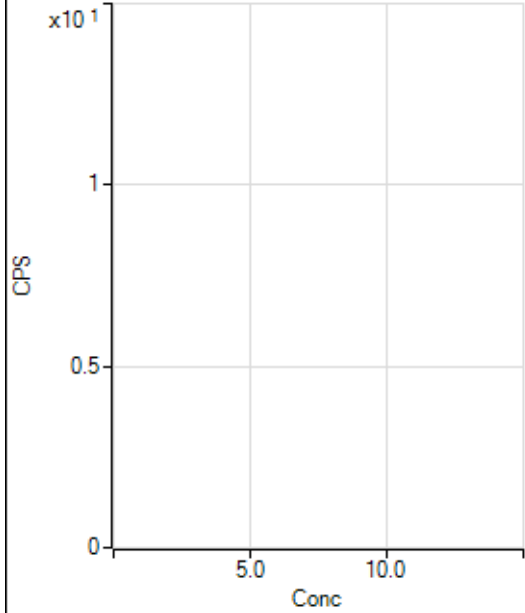
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			0.00		P	
3	☐			4.44		P	43.4
4	☐			15.56		P	32.7
5	☐			33.34		P	17.3
6	☐			56.67		P	5.9
7	☐			91.11		P	13.8
8	☐			75.56		P	6.7

156 Dy [No Gas] No available calibration points

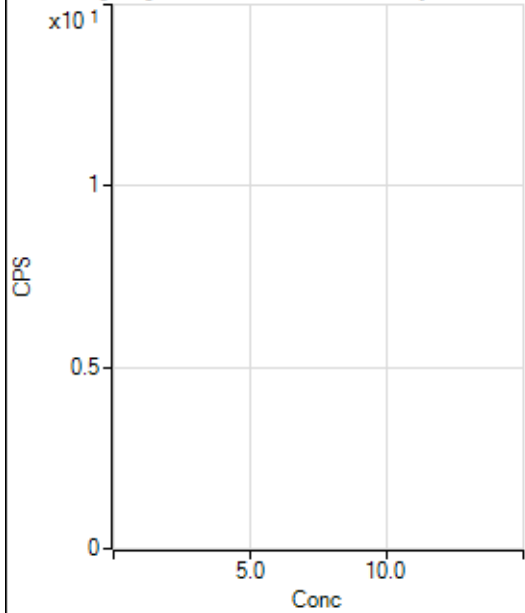
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			81.11		P	6.3
2	☐			75.56		P	18.4
3	☐			81.11		P	35.0
4	☐			97.78		P	18.8
5	☐			118.89		P	22.8
6	☐			183.33		P	11.4
7	☐			214.45		P	12.6
8	☐			311.12		P	13.4

156 Dy [He] No available calibration points

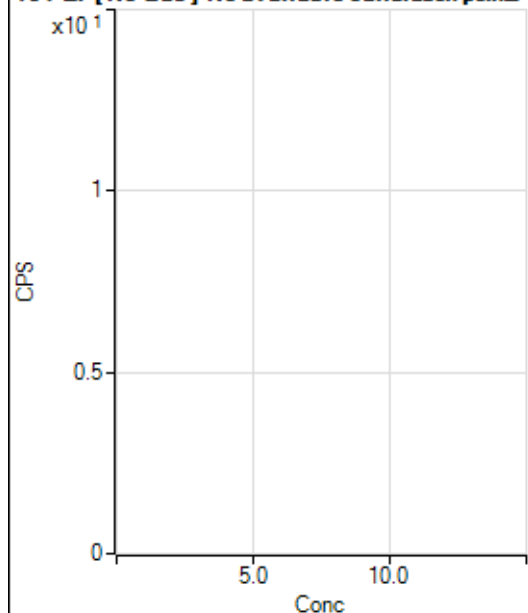
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	45.8
2	☐			24.44		P	34.3
3	☐			33.33		P	36.1
4	☐			67.78		P	23.2
5	☐			98.89		P	11.8
6	☐			190.00		P	1.8
7	☐			337.79		P	19.8
8	☐			191.12		P	3.6

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

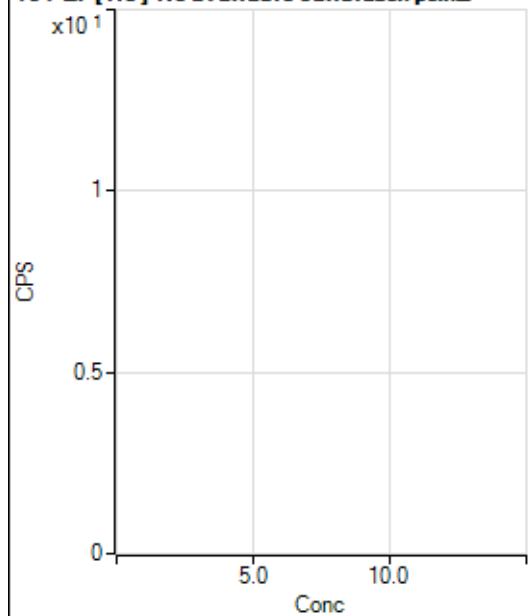
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			21.11		P	32.9
2	☐			15.56		P	61.9
3	☐			16.67		P	111.
4	☐			34.45		P	39.1
5	☐			33.33		P	36.1
6	☐			68.89		P	7.4
7	☐			102.22		P	6.8
8	☐			230.01		P	6.3

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			204.45		P	15.1
2	☐			191.12		P	10.2
3	☐			174.45		P	8.0
4	☐			182.23		P	6.4
5	☐			187.78		P	6.2
6	☐			198.89		P	16.8
7	☐			192.23		P	2.6
8	☐			271.12		P	10.2

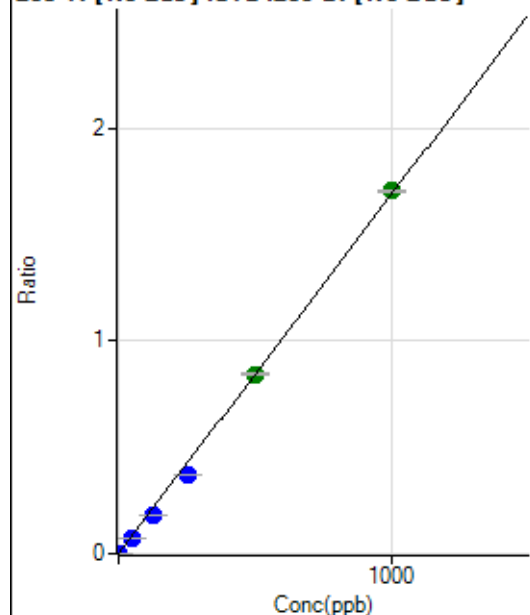
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	34.6
2	☐			25.55		P	41.9
3	☐			23.33		P	28.6
4	☐			30.00		P	22.2
5	☐			35.55		P	37.9
6	☐			51.11		P	56.2
7	☐			96.67		P	21.0
8	☐			226.67		P	9.2

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			21.11		P	50.8
2	☐			13.33		P	NaN
3	☐			13.33		P	25.0
4	☐			13.33		P	50.0
5	☐			30.00		P	19.2
6	☐			42.22		P	25.4
7	☐			51.11		P	33.5
8	☐			146.67		P	23.9

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	67.78	0.0000	P	38.3
2	☐	1.000	0.891	6180.35	0.0015	P	4.3
3	☐	50.000	43.748	298553.50	0.0739	P	0.6
4	☐	125.000	109.252	752110.48	0.1846	P	0.8
5	☐	250.000	219.603	1493808.67	0.3710	P	0.6
6	☐	500.000	499.679	3308538.67	0.8441	A	1.1
7	☐	1000.000	1010.041	6561153.79	1.7063	A	0.8
8	☐			884.49	0.0003	P	11.7

$$y = 0.0017 * x + 1.7196E-005$$

$$R = 0.9995$$

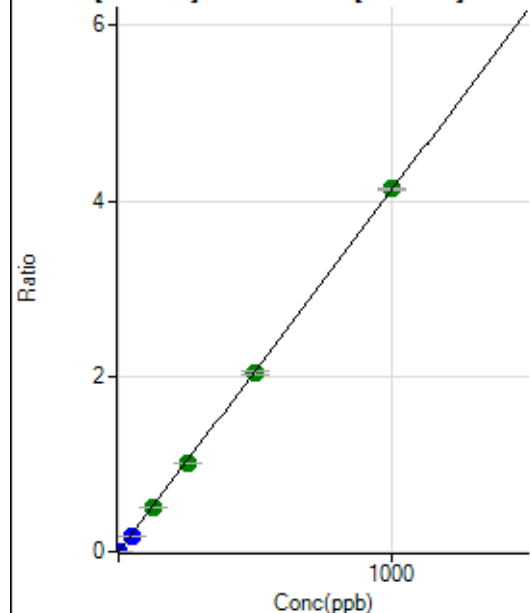
$$DL = 0.0117$$

$$BEC = 0.01018$$

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	210.00	0.0001	P	5.5
2	☐	1.000	0.887	15061.75	0.0037	P	1.0
3	☐	50.000	43.201	719528.36	0.1782	P	1.0
4	☐	125.000	122.062	2050759.76	0.5033	A	0.8
5	☐	250.000	244.357	4056685.39	1.0075	A	0.9
6	☐	500.000	496.780	8027476.20	2.0482	A	2.2
7	☐	1000.000	1003.728	15912793.93	4.1382	A	0.8
8	☐			2338.01	0.0007	P	11.1

$$y = 0.0041 * x + 5.3265E-005$$

$$R = 1.0000$$

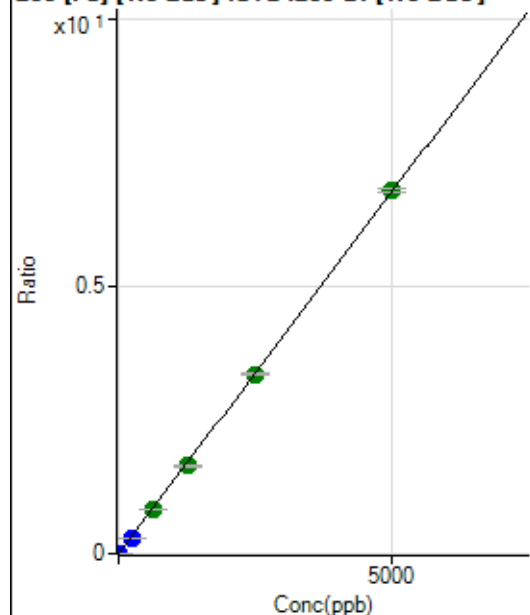
$$DL = 0.002147$$

$$BEC = 0.01292$$

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	291.12	0.0001	P	1.6
2	☐	1.000	0.880	5136.58	0.0013	P	2.1
3	☐	250.000	217.343	1188842.53	0.2944	P	0.7
4	☐	625.000	616.718	3402783.22	0.8351	A	0.5
5	☐	1250.000	1218.079	6641330.04	1.6494	A	1.3
6	☐	2500.000	2481.386	13168662.31	3.3599	A	1.6
7	☐	5000.000	5019.955	26137569.61	6.7971	A	0.9
8	☐			5514.52	0.0016	P	5.7

$$y = 0.0014 * x + 7.3846E-005$$

$$R = 1.0000$$

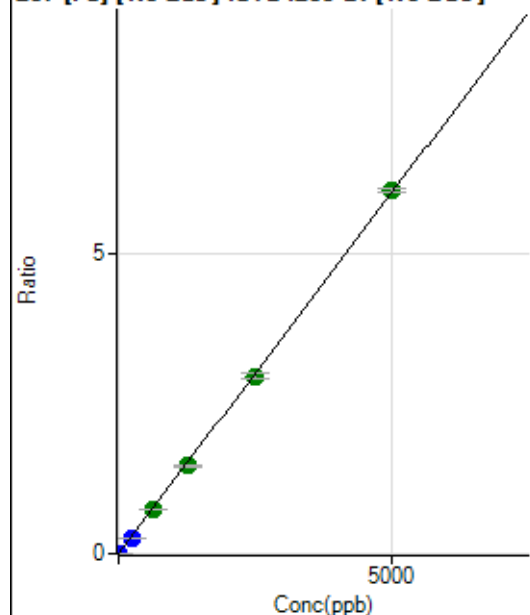
$$DL = 0.002585$$

$$BEC = 0.05454$$

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	254.45	0.0001	P	5.4
2	☐	1.000	0.878	4546.37	0.0011	P	3.1
3	☐	250.000	216.162	1049899.21	0.2600	P	0.9
4	☐	625.000	613.810	3007370.51	0.7381	A	1.1
5	☐	1250.000	1218.019	5897208.11	1.4645	A	1.0
6	☐	2500.000	2465.191	11617172.47	2.9640	A	2.2
7	☐	5000.000	5028.490	23249057.99	6.0459	A	1.1
8	☐			4786.45	0.0014	P	6.3

$$y = 0.0012 * x + 6.4546E-005$$

$$R = 0.9999$$

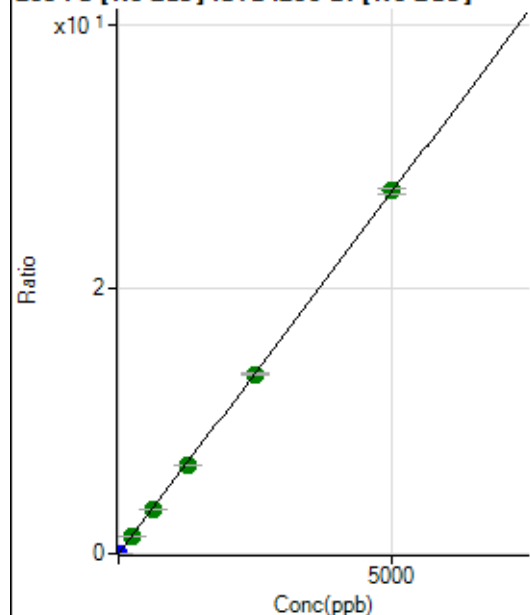
$$DL = 0.008747$$

$$BEC = 0.05368$$

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	1136.69	0.0003	P	6.2
2	☐	1.000	0.879	20661.91	0.0051	P	0.4
3	☐	250.000	232.135	5122355.69	1.2683	A	0.8
4	☐	625.000	613.224	13649981.60	3.3500	A	0.6
5	☐	1250.000	1216.454	26757374.05	6.6450	A	0.9
6	☐	2500.000	2481.313	53124289.63	13.5542	A	1.5
7	☐	5000.000	5020.095	105449077.8	27.4220	A	1.4
8	☐			22198.49	0.0066	P	6.1

$$y = 0.0055 * x + 2.8836E-004$$

$$R = 1.0000$$

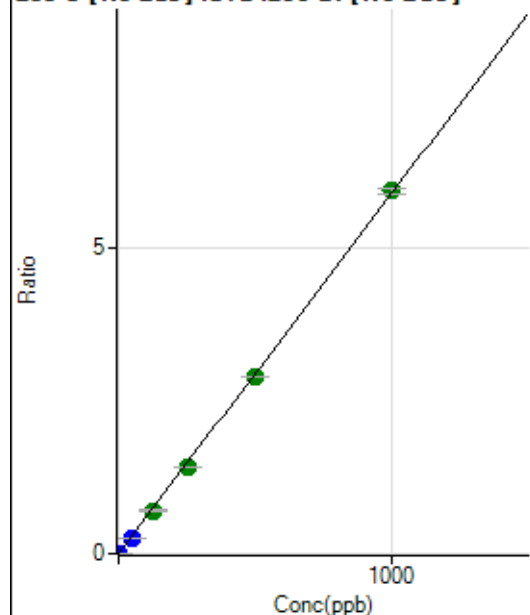
$$DL = 0.009742$$

$$BEC = 0.05279$$

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	7.78	0.0000	P	99.2
2	☐	1.000	0.830	19883.79	0.0049	P	0.2
3	☐	50.000	40.872	973152.39	0.2410	P	1.0
4	☐	125.000	119.708	2875686.76	0.7057	A	1.1
5	☐	250.000	240.476	5708548.87	1.4177	A	1.1
6	☐	500.000	491.652	11360485.25	2.8985	A	0.8
7	☐	1000.000	1007.673	22844495.49	5.9407	A	1.9
8	☐			1612.34	0.0005	P	18.6

$$y = 0.0059 * x + 1.9743E-006$$

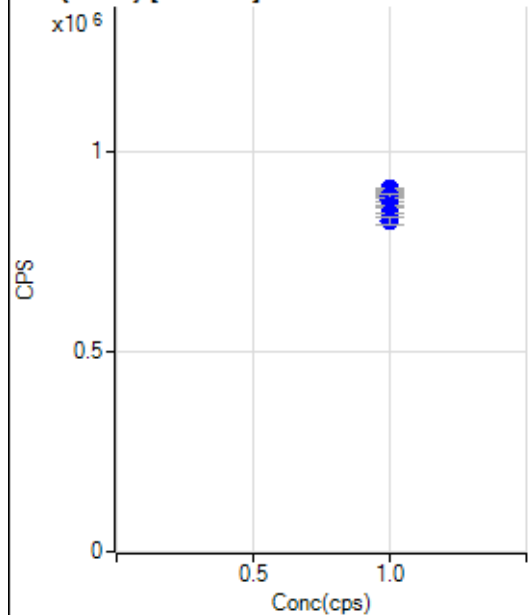
$$R = 0.9999$$

$$DL = 0.0009962$$

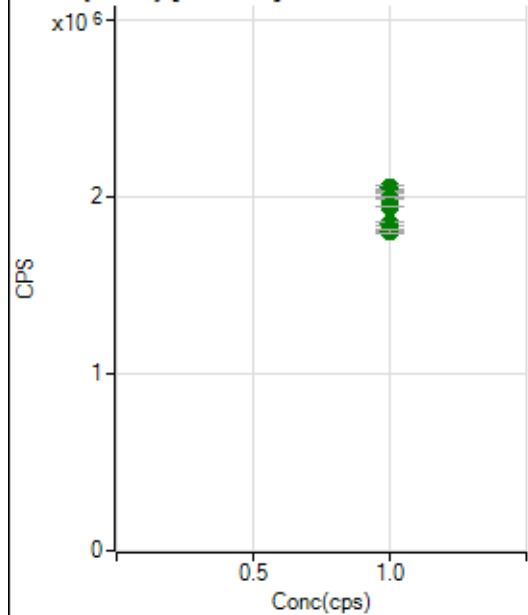
$$BEC = 0.0003349$$

Weight: <None>

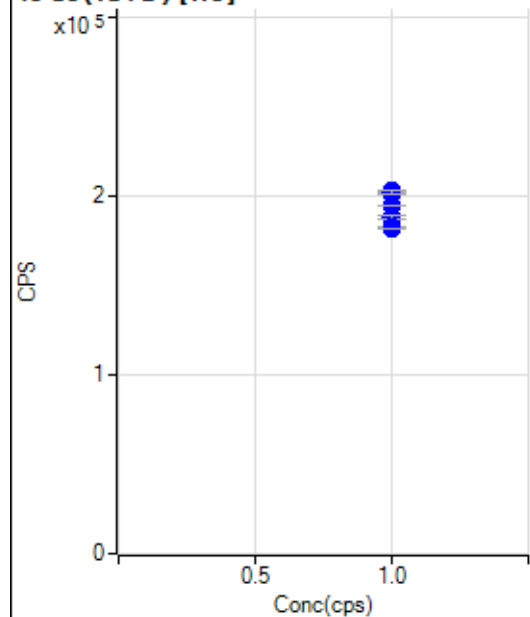
Min Conc: 0

6 Li (ISTD) [No Gas]

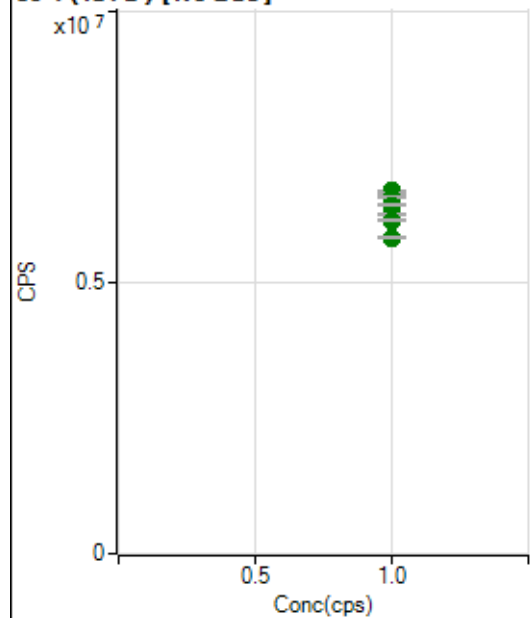
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		881294.36		P	1.4
2	☐	1.000		895152.89		P	0.5
3	☐	1.000		903050.85		P	0.8
4	☐	1.000		908222.75		P	0.7
5	☐	1.000		889996.31		P	0.7
6	☐	1.000		864375.40		P	0.4
7	☐	1.000		847375.62		P	0.3
8	☐	1.000		828093.73		P	1.8

45 Sc (ISTD) [No Gas]

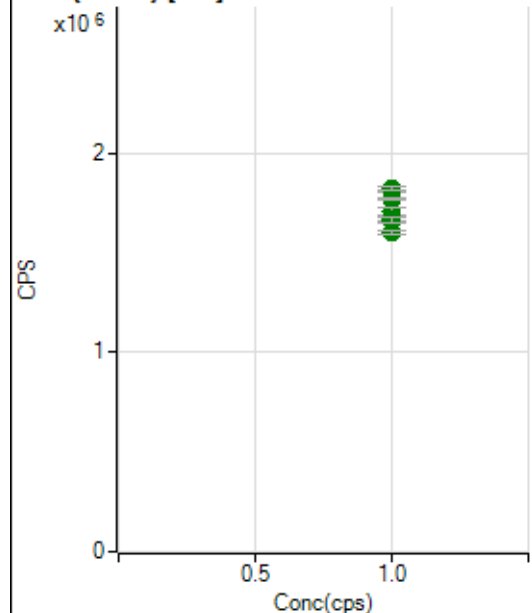
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2030810.73		A	0.9
2	☐	1.000		2051430.02		A	0.9
3	☐	1.000		2031002.28		A	0.7
4	☐	1.000		1992337.64		A	0.7
5	☐	1.000		1945059.05		A	0.3
6	☐	1.000		1845335.60		A	1.0
7	☐	1.000		1810601.40		A	1.1
8	☐	1.000		1802423.03		A	1.1

45 Sc (ISTD) [He]

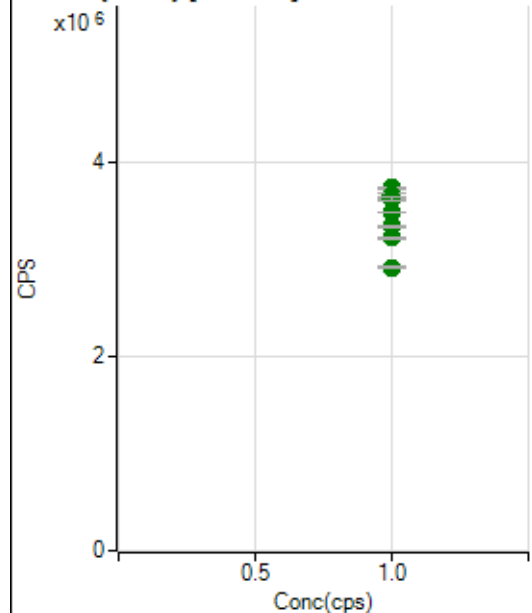
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		203143.19		P	0.8
2	☐	1.000		201734.55		P	0.7
3	☐	1.000		202637.34		P	1.0
4	☐	1.000		195001.53		P	0.2
5	☐	1.000		188543.32		P	1.0
6	☐	1.000		182713.31		P	0.5
7	☐	1.000		182763.78		P	0.3
8	☐	1.000		181740.73		P	0.2

89 Y (ISTD) [No Gas]

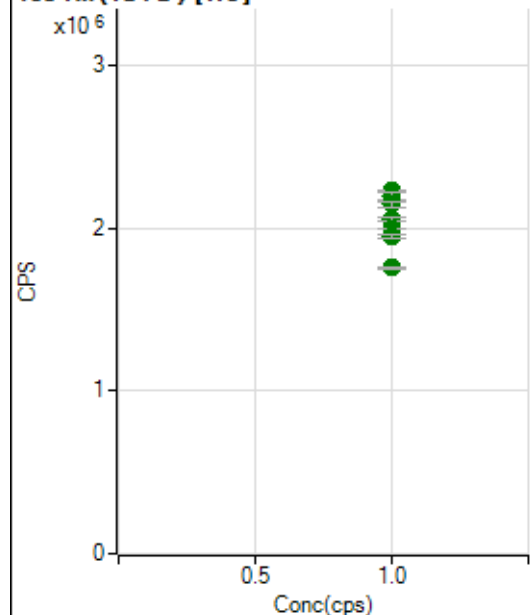
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6622540.60		A	1.0
2	☐	1.000		6688628.86		A	0.7
3	☐	1.000		6650281.29		A	0.9
4	☐	1.000		6572488.10		A	0.8
5	☐	1.000		6424585.53		A	0.8
6	☐	1.000		6247578.38		A	0.5
7	☐	1.000		6147777.69		A	0.2
8	☐	1.000		5829638.59		A	0.9

89 Y(ISTD) [He]

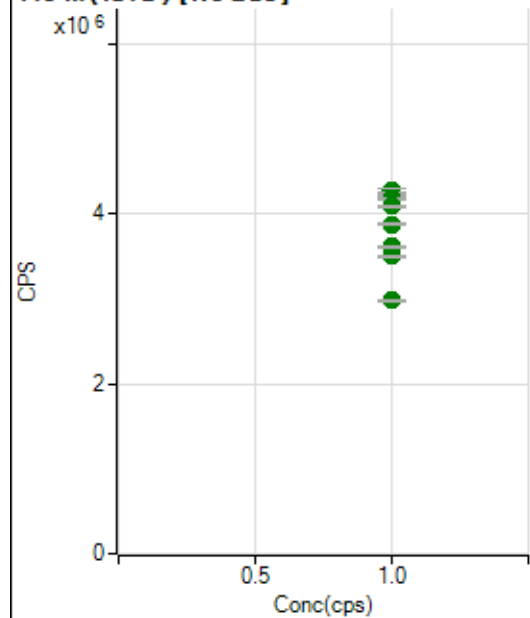
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1808873.71		A	0.6
2	☐	1.000		1810086.78		A	0.6
3	☐	1.000		1821391.48		A	0.9
4	☐	1.000		1768913.69		A	0.3
5	☐	1.000		1710215.64		A	2.5
6	☐	1.000		1670638.65		A	1.4
7	☐	1.000		1663899.99		A	1.4
8	☐	1.000		1605259.56		A	1.1

103 Rh(ISTD) [No Gas]

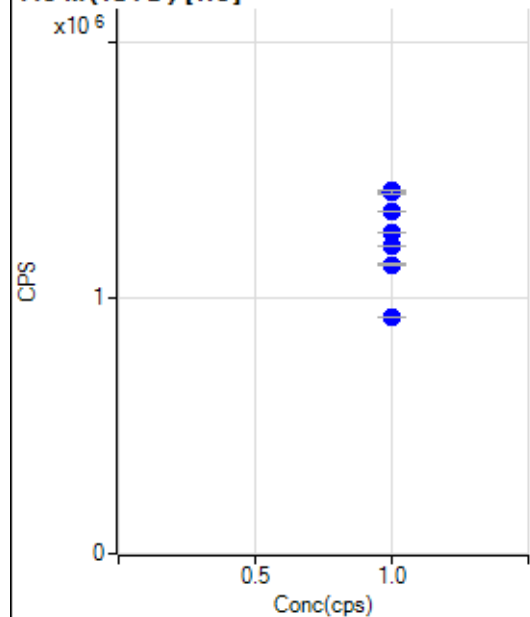
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3695491.61		A	0.1
2	☐	1.000		3742839.70		A	0.7
3	☐	1.000		3661325.60		A	1.6
4	☐	1.000		3627142.13		A	1.2
5	☐	1.000		3492683.07		A	0.4
6	☐	1.000		3347024.50		A	0.5
7	☐	1.000		3225063.39		A	0.7
8	☐	1.000		2920195.65		A	0.7

103 Rh (ISTD) [He]

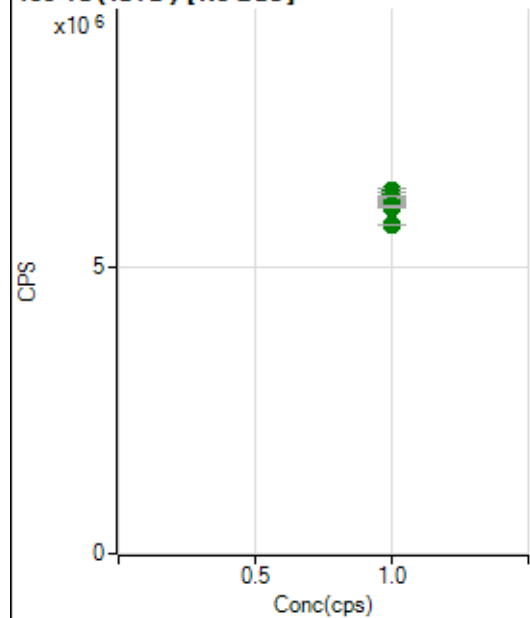
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2231378.91		A	0.2
2	☐	1.000		2229868.79		A	0.8
3	☐	1.000		2201305.72		A	2.2
4	☐	1.000		2146660.31		A	1.4
5	☐	1.000		2061163.01		A	1.0
6	☐	1.000		1998539.76		A	0.5
7	☐	1.000		1953184.50		A	0.8
8	☐	1.000		1756964.44		A	1.3

115 In (ISTD) [No Gas]

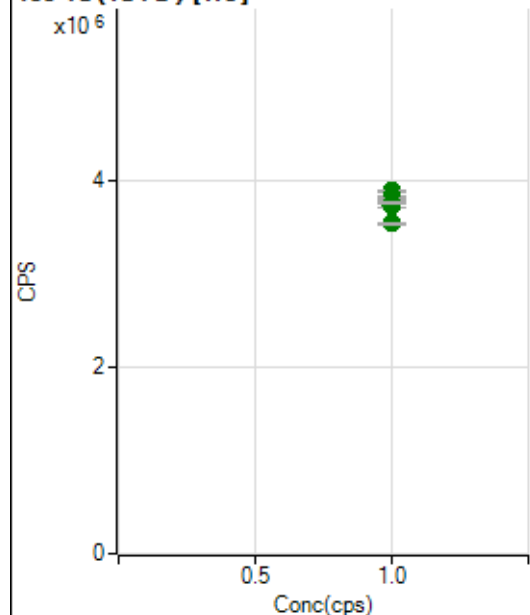
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4232071.23		A	0.8
2	☐	1.000		4275417.38		A	1.0
3	☐	1.000		4186454.09		A	0.7
4	☐	1.000		4095979.22		A	0.5
5	☐	1.000		3877614.78		A	0.7
6	☐	1.000		3504087.34		A	0.2
7	☐	1.000		2986471.08		A	1.0
8	☐	1.000		3617425.20		A	1.0

115 In (ISTD) [He]

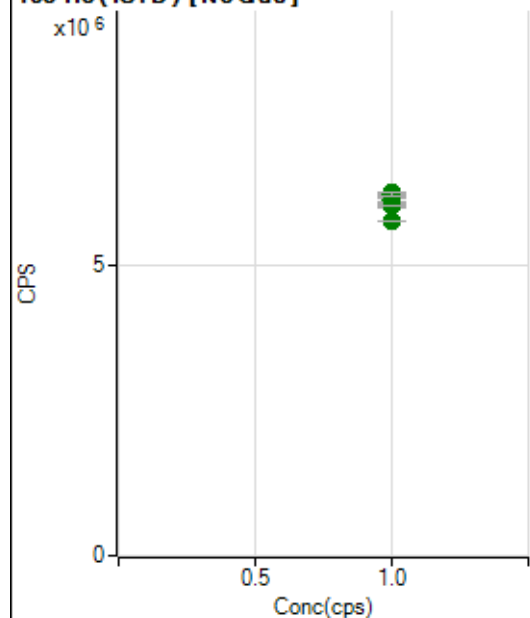
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1414702.73		P	0.4
2	☐	1.000		1417679.67		P	0.3
3	☐	1.000		1411145.60		P	0.8
4	☐	1.000		1336801.16		P	0.2
5	☐	1.000		1254657.83		P	0.5
6	☐	1.000		1128977.42		P	0.5
7	☐	1.000		923812.02		P	0.6
8	☐	1.000		1201227.59		P	0.2

159 Tb (ISTD) [No Gas]

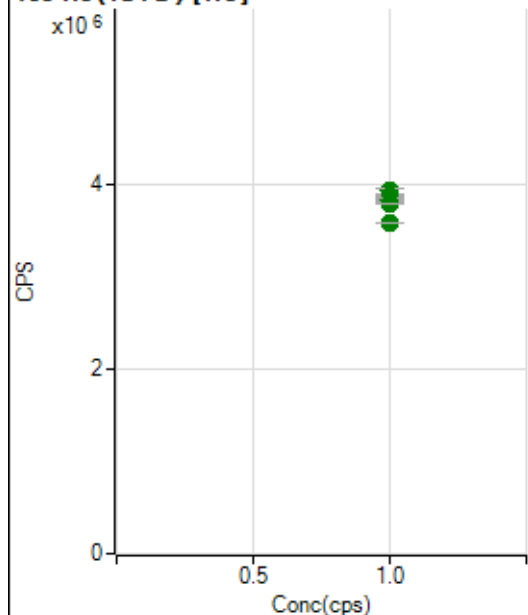
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6120776.23		A	0.7
2	☐	1.000		6322560.11		A	1.0
3	☐	1.000		6201486.02		A	1.2
4	☐	1.000		6260502.06		A	0.8
5	☐	1.000		6212645.81		A	0.3
6	☐	1.000		6080449.35		A	0.3
7	☐	1.000		6037374.98		A	0.4
8	☐	1.000		5720632.00		A	0.2

159 Tb (ISTD) [He]

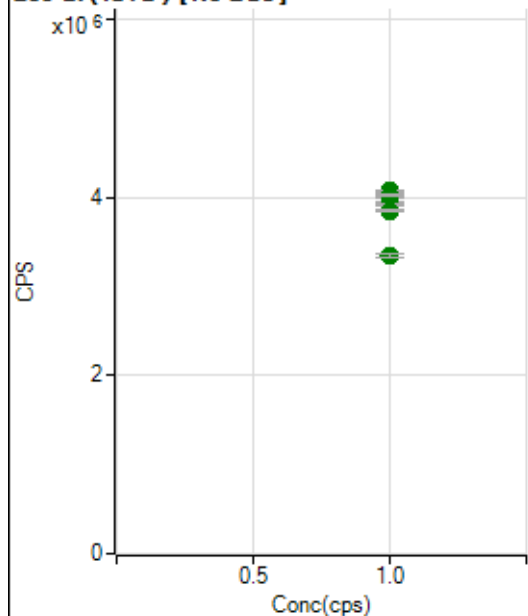
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3817833.48		A	0.8
2	☐	1.000		3804789.67		A	1.4
3	☐	1.000		3880335.81		A	0.9
4	☐	1.000		3818071.30		A	0.6
5	☐	1.000		3800276.92		A	0.5
6	☐	1.000		3722634.08		A	1.0
7	☐	1.000		3752570.88		A	0.5
8	☐	1.000		3530964.74		A	0.6

165 Ho (ISTD) [No Gas]

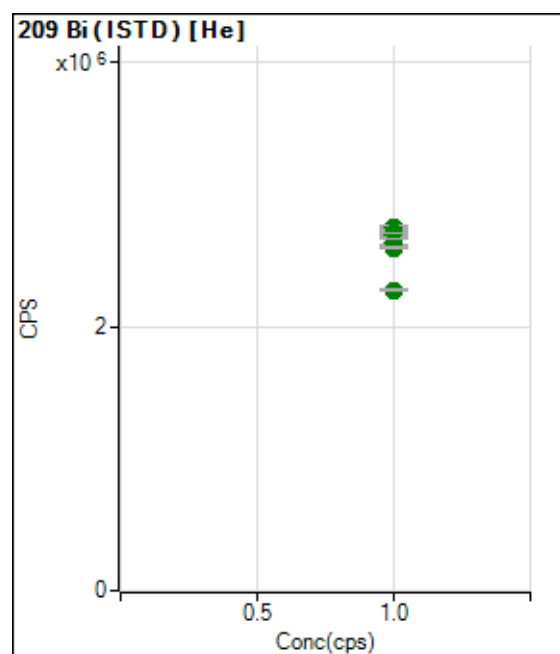
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6123944.22		A	0.8
2	☐	1.000		6216469.70		A	1.6
3	☐	1.000		6233982.20		A	0.5
4	☐	1.000		6246951.43		A	0.8
5	☐	1.000		6215611.71		A	1.0
6	☐	1.000		6041204.42		A	1.1
7	☐	1.000		6024702.06		A	0.2
8	☐	1.000		5759751.93		A	0.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3824247.41		A	1.2
2	☐	1.000		3859812.65		A	0.9
3	☐	1.000		3926552.16		A	1.4
4	☐	1.000		3877299.80		A	0.1
5	☐	1.000		3832247.54		A	0.6
6	☐	1.000		3829254.63		A	1.4
7	☐	1.000		3790645.70		A	0.4
8	☐	1.000		3579351.44		A	0.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3942319.97		A	0.3
2	☐	1.000		4060150.60		A	0.7
3	☐	1.000		4038804.42		A	1.8
4	☐	1.000		4074663.55		A	0.3
5	☐	1.000		4026504.59		A	0.8
6	☐	1.000		3919433.69		A	0.2
7	☐	1.000		3845273.66		A	0.5
8	☐	1.000		3347936.20		A	0.8



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2748025.93		A	0.5
2	☐	1.000		2727305.34		A	0.7
3	☐	1.000		2746649.80		A	1.0
4	☐	1.000		2708894.34		A	1.3
5	☐	1.000		2695172.28		A	0.8
6	☐	1.000		2642488.05		A	1.2
7	☐	1.000		2594224.18		A	0.7
8	☐	1.000		2275930.49		A	0.7

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7100924-MS2.b

Acq. Date-Time 2024-10-09 12:28:59

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		2242	22422.23			0.999	5.000
24		72221	722211.83			0.842	5.000
25		9446	94455.97			0.544	5.000
26		10770	107695.14			0.524	5.000
59		19414	194141.44			0.944	5.000
113		1899	18994.04			1.326	5.000
115		42285	422853.47			1.156	5.000
206		11269	112688.75			1.260	5.000
207		9418	94179.74			0.840	5.000
208		22785	227853.04			1.349	5.000
220		0	1.80			54.149	

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

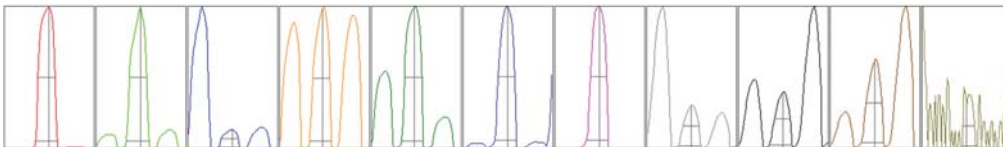
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2261	2249	2246	2250	2203
24	72712	72679	71844	72537	71334
25	9421	9526	9445	9450	9386
26	10744	10859	10776	10763	10706
59	19604	19603	19365	19303	19195
113	1903	1941	1890	1879	1883
115	42518	42927	42244	42136	41602
206	11383	11381	11293	11251	11036
207	9467	9457	9439	9448	9278
208	22960	23050	22793	22860	22264

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4140.47	9.00	8.90 - 9.10	
24	136851.93	24.00	23.90 - 24.10	
25	17808.60	25.00	24.90 - 25.10	
26	19735.08	25.95	25.90 - 26.10	
59	34622.13	58.95	58.90 - 59.10	
113	3607.36	113.00	112.90 - 113.10	
115	80167.28	115.00	114.90 - 115.10	
206	21817.75	206.00	205.90 - 206.10	
207	18112.50	207.00	206.90 - 207.10	
208	44805.64	208.00	207.90 - 208.10	
220	0.25	220.00	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.56	0.728	0.900	
24	0.58	0.772	0.900	
25	0.57	0.695	0.900	
26	0.58	0.736	0.900	
59	0.58	0.732	0.900	
113	0.54	0.734	0.900	
115	0.54	0.738	0.900	
206	0.53	0.758	0.900	
207	0.52	0.764	0.900	
208	0.52	0.762	0.900	
220	0.39	0.444		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode ---

Nebulizer Gas 0.82 L/min

Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.9 V	Deflect	18.0 V
Extract 2	-115.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	135	Axis Gain	0.9979	QP Bias	-3.0 V
Mass Offset	131	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	-0.5 mm	Torch V	0.7 mm
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EM

Discriminator	4.9 mV	Analog HV	2385 V	Pulse HV	1685 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		7341	73411.28			0.556	
89		73376	733763.23			1.176	
205		22741	227412.14			0.332	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	7376	7286	7381	7349	7313
89	74909	73085	73041	72825	73021
205	22859	22712	22705	22663	22767

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.4 V	Deflect	3.0 V
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US EPA Tune Check Report

Extract 2	-105.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-55 V	Cell Exit	-60 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	190 V		
QP Parameters					
Mass Gain	135	Axis Gain	0.9979	QP Bias	-13.0 V
Mass Offset	131	Axis Offset	0.10		
Hardware Settings					
Torch					
Torch H	-0.5 mm	Torch V	0.7 mm		
EM					
Discriminator	4.9 mV	Analog HV	2385 V	Pulse HV	1685 V