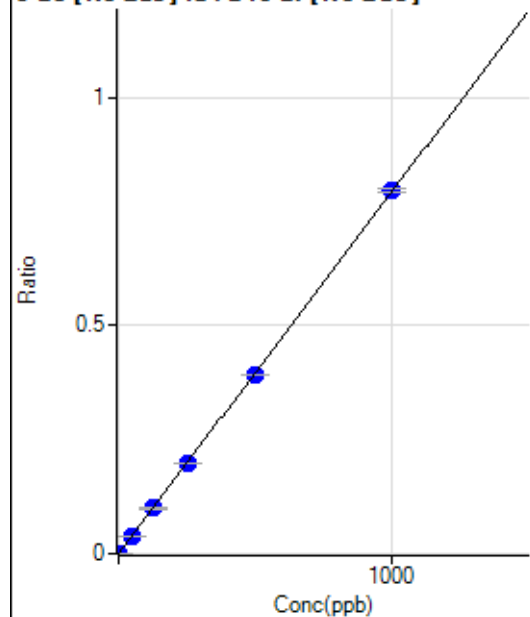


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7010621IMS.b\
Analysis File: P7010621IMS.batch.bin
DA Date-Time: 2021-01-08 16:25:14
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-01-06 11:56:31
2	005CAL.S.d	S02	2021-01-06 12:03:50
3	006CAL.S.d	S03	2021-01-06 12:07:26
4	007CAL.S.d	S04	2021-01-06 12:11:02
5	008CAL.S.d	S05	2021-01-06 12:14:37
6	009CAL.S.d	S06	2021-01-06 12:18:10
7	010CAL.S.d	S07	2021-01-06 12:21:38
8	011CAL.S.d	S08	2021-01-06 12:25:05

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	40.74	0.0000	P	17.7
2	☐	1.000	0.925	1057.46	0.0008	P	14.9
3	☐	50.000	49.642	54738.98	0.0393	P	0.6
4	☐	125.000	125.278	138810.49	0.0993	P	0.6
5	☐	250.000	249.065	273891.59	0.1973	P	1.1
6	☐	500.000	493.294	532472.85	0.3907	P	0.2
7	☐	1000.000	1003.570	1044409.84	0.7949	P	1.2
8	☐			381.49	0.0003	P	33.0

$$y = 7.9203\text{E-}004 * x + 2.9624\text{E-}005$$

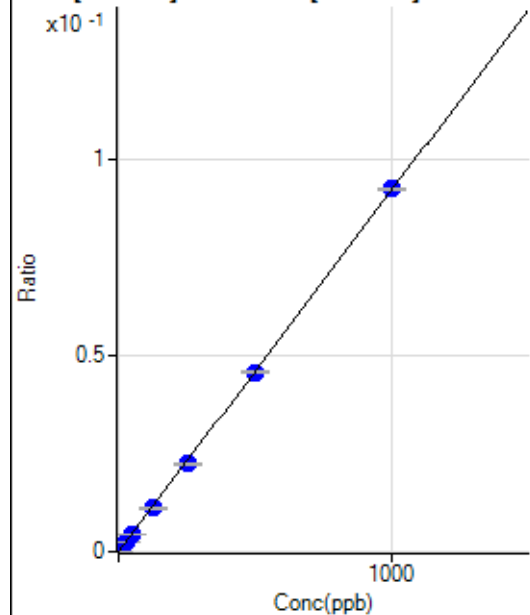
$$R = 1.0000$$

$$DL = 0.01991$$

$$BEC = 0.0374$$

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	88.89	0.0001	P	60.9
2	☐	25.000	23.787	3125.41	0.0023	P	2.0
3	☐	50.000	47.791	6201.41	0.0045	P	0.8
4	☐	125.000	119.346	15430.37	0.0110	P	2.1
5	☐	250.000	242.451	31021.07	0.0223	P	2.2
6	☐	500.000	495.760	62177.82	0.0456	P	1.4
7	☐	1000.000	1004.855	121424.93	0.0924	P	0.8
8	☐			2736.43	0.0021	P	7.6

$$y = 9.1903\text{E-}005 * x + 6.5181\text{E-}005$$

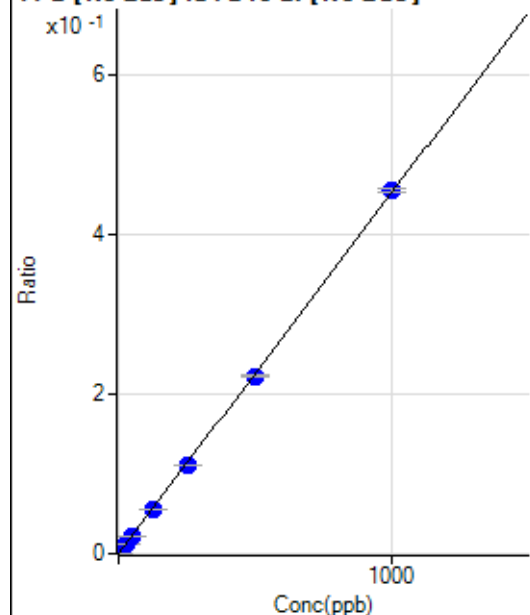
$$R = 1.0000$$

$$DL = 1.295$$

$$BEC = 0.7092$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	361.12	0.0003	P	15.0
2	☐	25.000	23.864	15319.15	0.0110	P	2.9
3	☐	50.000	47.550	30222.34	0.0217	P	2.8
4	☐	125.000	121.670	77168.45	0.0552	P	2.0
5	☐	250.000	244.408	153500.83	0.1106	P	1.5
6	☐	500.000	491.412	302615.02	0.2221	P	0.8
7	☐	1000.000	1006.259	597098.40	0.4544	P	0.9
8	☐			12944.69	0.0098	P	9.9

$$y = 4.5135\text{E-}004 * x + 2.6434\text{E-}004$$

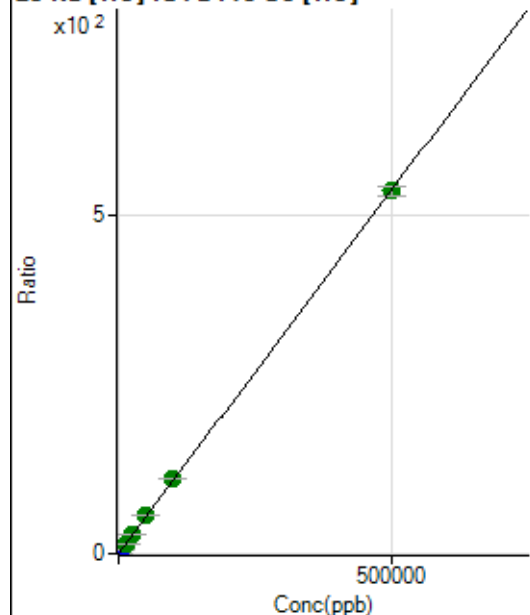
$$R = 0.9999$$

$$DL = 0.2639$$

$$BEC = 0.5857$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22417.13	0.0577	P	0.9
2	☐	500.000	524.291	243726.92	0.6223	P	1.4
3	☐	5000.000	5696.096	2288633.14	6.1915	P	6.9
4	☐	12500.000	13247.109	5262953.20	14.3227	A	1.0
5	☐	25000.000	26422.644	10265774.79	28.5105	A	1.5
6	☐	50000.000	52503.057	19964278.05	56.5949	A	0.4
7	☐	100000.00	102750.38	39192854.35	110.7030	A	0.6
8	☐	500000.00	499102.82	191049576.4	537.5094	A	2.3

$$y = 0.0011 * x + 0.0577$$

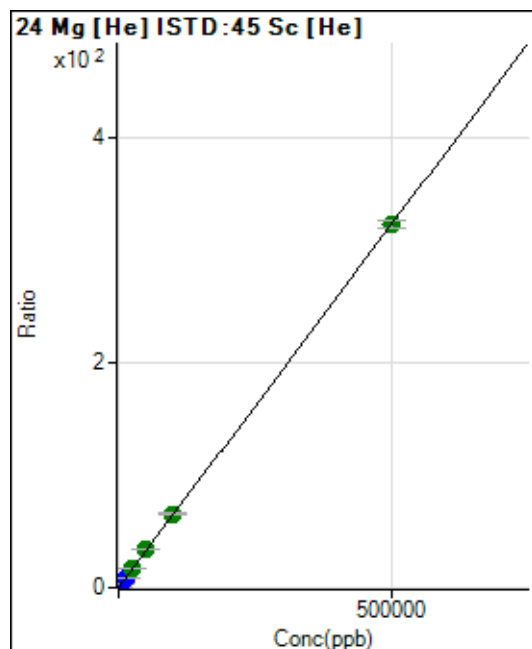
$$R = 1.0000$$

$$DL = 1.386$$

$$BEC = 53.58$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	386.13	0.0010	P	6.9
2	☐	500.000	506.722	128518.79	0.3281	P	0.2
3	☐	5000.000	5504.615	1313875.18	3.5545	P	7.0
4	☐	12500.000	13415.629	3182621.30	8.6615	P	1.4
5	☐	25000.000	26173.271	6084343.32	16.8973	A	0.7
6	☐	50000.000	51908.906	11821414.59	33.5111	A	0.6
7	☐	100000.00	101753.33	23255299.82	65.6884	A	1.3
8	☐	500000.00	499371.83	114585652.5	322.3732	A	2.0

$$y = 6.4556\text{E-}004 * x + 9.9401\text{E-}004$$

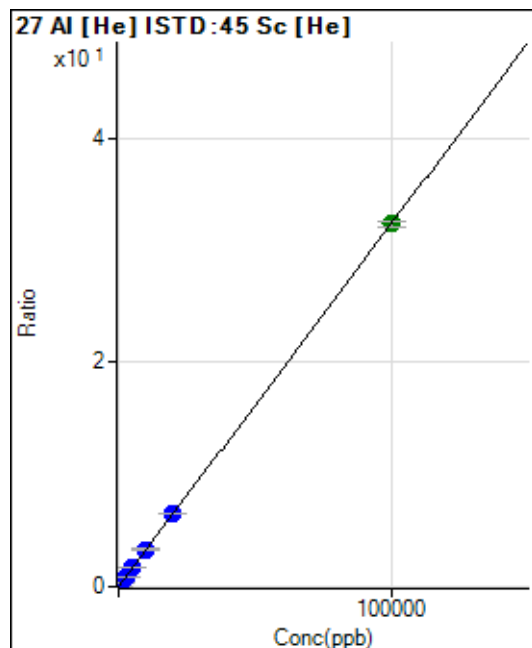
$$R = 1.0000$$

$$DL = 0.3183$$

$$BEC = 1.54$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	594.47	0.0015	P	11.1
2	☐	20.000	20.329	3178.19	0.0081	P	4.3
3	☐	1000.000	1089.811	130959.95	0.3545	P	8.0
4	☐	2500.000	2625.201	312954.14	0.8517	P	1.1
5	☐	5000.000	5183.440	604975.46	1.6801	P	0.4
6	☐	10000.000	10311.789	1178536.96	3.3409	P	0.3
7	☐	20000.000	20237.812	2320790.76	6.5554	P	1.0
8	☐	100000.00	99908.059	11500879.86	32.3558	A	1.6

$$y = 3.2384\text{E-}004 * x + 0.0015$$

$$R = 1.0000$$

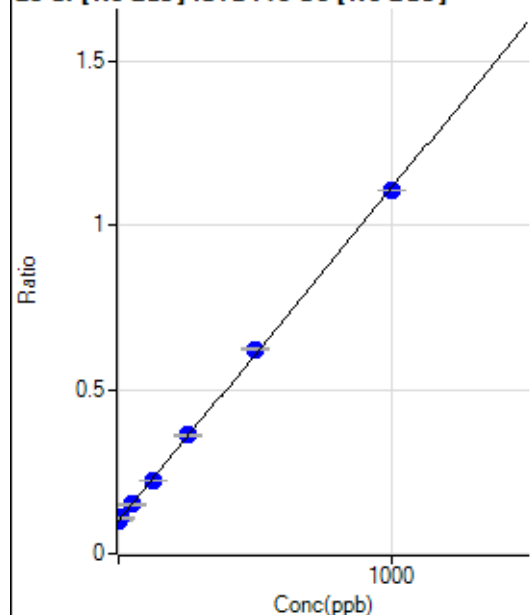
$$DL = 1.568$$

$$BEC = 4.726$$

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	378957.38	0.1001	P	5.4
2	☐	10.000	8.115	416345.64	0.1084	P	1.6
3	☐	50.000	48.789	568727.19	0.1495	P	1.1
4	☐	125.000	120.472	826268.97	0.2221	P	0.5
5	☐	250.000	257.310	1319086.66	0.3606	P	1.0
6	☐	500.000	515.419	2211975.25	0.6218	P	0.8
7	☐	1000.000	991.108	3837440.71	1.1033	P	0.2
8	☐			618654.20	0.1757	P	0.6

$$y = 0.0010 * x + 0.1001$$

R = 0.9998

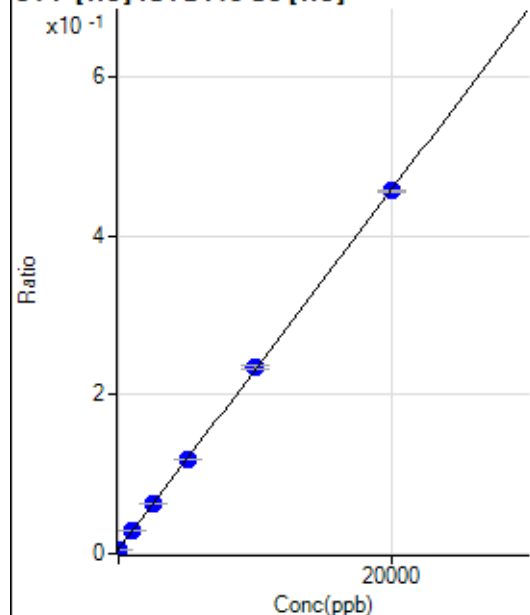
DL = 16.17

BEC = 98.94

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	1.583	2080.75	0.0054	P	5.2
2	☐	0.000	-1.583	2069.65	0.0053	P	9.0
3	☐	1000.000	1039.028	10670.74	0.0288	P	5.7
4	☐	2500.000	2537.662	23073.84	0.0628	P	1.2
5	☐	5000.000	5000.283	42689.22	0.1186	P	1.3
6	☐	10000.000	10123.334	82742.51	0.2346	P	1.3
7	☐	20000.000	19931.603	161680.17	0.4567	P	0.6
8	☐			1950.18	0.0055	P	4.5

$$y = 2.2645E-005 * x + 0.0053$$

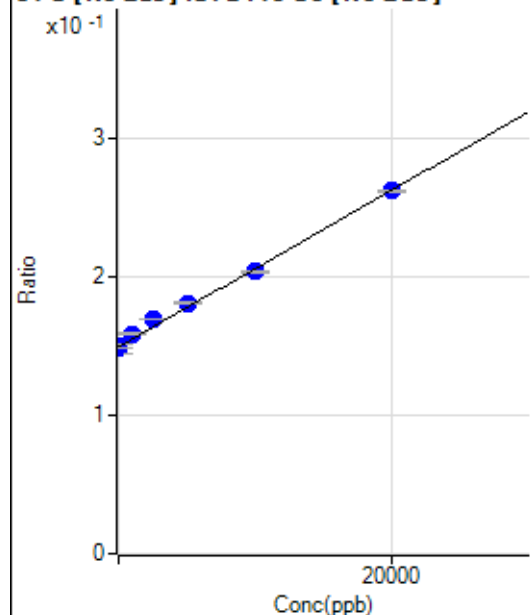
R = 1.0000

DL = 49.89

BEC = 235

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	-136.130	561759.95	0.1484	P	4.8
2	☐	0.000	136.130	576168.38	0.1500	P	1.9
3	☐	1000.000	1687.266	603717.56	0.1587	P	0.6
4	☐	2500.000	3476.339	628131.92	0.1688	P	0.2
5	☐	5000.000	5598.183	661448.13	0.1808	P	0.4
6	☐	10000.000	9586.174	723292.80	0.2033	P	0.5
7	☐	20000.000	19900.961	909828.13	0.2616	P	0.5
8	☐			481341.33	0.1367	P	1.0

$$y = 5.6477E-006 * x + 0.1492$$

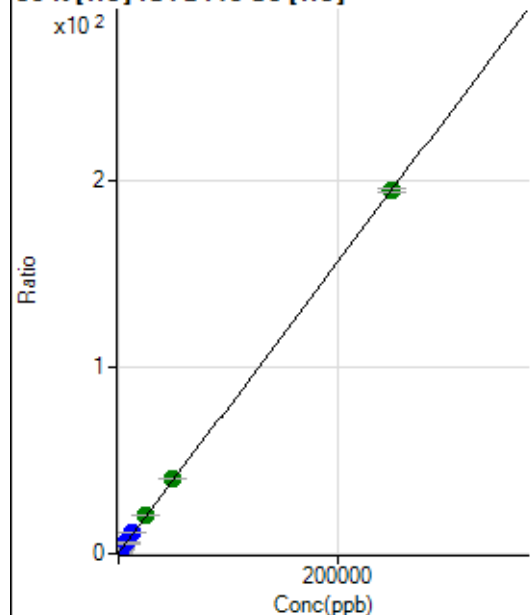
$$R = 0.9979$$

$$DL = 2646$$

$$BEC = 2.642E+04$$

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	114015.23	0.2935	P	1.0
2	☐	500.000	519.950	273816.48	0.6991	P	0.9
3	☐	2500.000	2919.257	950231.85	2.5709	P	7.1
4	☐	6250.000	6916.882	2090593.02	5.6895	P	1.3
5	☐	12500.000	13645.817	3938844.40	10.9389	P	0.6
6	☐	25000.000	25810.500	7206670.73	20.4289	A	1.1
7	☐	50000.000	51298.054	14271909.35	40.3124	A	0.8
8	☐	250000.00	249581.14	69316680.02	194.9979	A	1.1

$$y = 7.8012E-004 * x + 0.2935$$

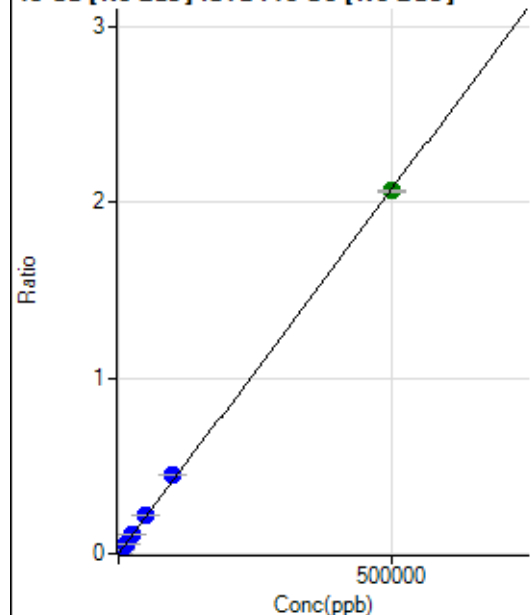
$$R = 1.0000$$

$$DL = 11.39$$

$$BEC = 376.2$$

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	283.34	0.0001	P	7.6
2	☐	500.000	511.292	8444.26	0.0022	P	5.2
3	☐	5000.000	5298.064	83903.90	0.0221	P	1.9
4	☐	12500.000	13259.787	204995.32	0.0551	P	0.7
5	☐	25000.000	26274.868	399143.40	0.1091	P	0.5
6	☐	50000.000	52623.058	777041.65	0.2184	P	0.7
7	☐	100000.00	107772.55	1555724.21	0.4473	P	0.6
8	☐	500000.00	498097.45	7278088.44	2.0670	A	0.3

$$y = 4.1497\text{E-}006 * x + 7.4759\text{E-}005$$

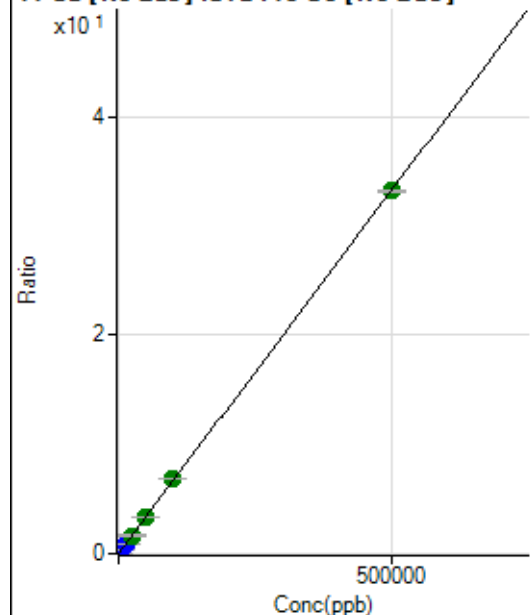
$$R = 0.9999$$

$$DL = 4.116$$

$$BEC = 18.02$$

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	15875.48	0.0042	P	5.4
2	☐	500.000	516.399	148072.51	0.0385	P	0.8
3	☐	5000.000	5350.829	1369337.25	0.3600	P	1.3
4	☐	12500.000	13407.947	3333026.53	0.8958	P	0.2
5	☐	25000.000	25003.390	6098227.22	1.6669	A	1.1
6	☐	50000.000	50187.095	11886954.26	3.3417	A	0.8
7	☐	100000.00	102834.69	23799672.58	6.8428	A	0.3
8	☐	500000.00	499387.95	116947298.4	33.2140	A	0.4

$$y = 6.6501\text{E-}005 * x + 0.0042$$

$$R = 1.0000$$

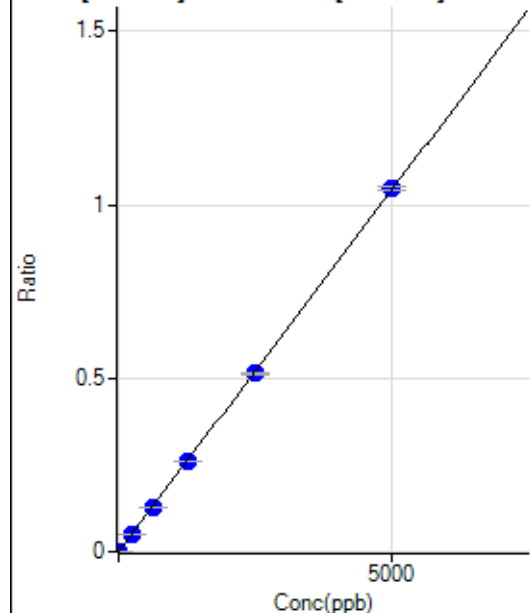
$$DL = 10.27$$

$$BEC = 63.07$$

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	66.67	0.0000	P	58.3
2	☐	5.000	4.966	4045.10	0.0011	P	5.0
3	☐	250.000	247.135	195851.17	0.0515	P	1.1
4	☐	625.000	622.626	482573.56	0.1297	P	0.2
5	☐	1250.000	1239.363	944416.18	0.2582	P	0.3
6	☐	2500.000	2466.684	1827678.10	0.5138	P	0.5
7	☐	5000.000	5019.757	3636629.85	1.0456	P	0.9
8	☐			1325.10	0.0004	P	33.2

$$y = 2.0829E-004 * x + 1.7836E-005$$

$$R = 1.0000$$

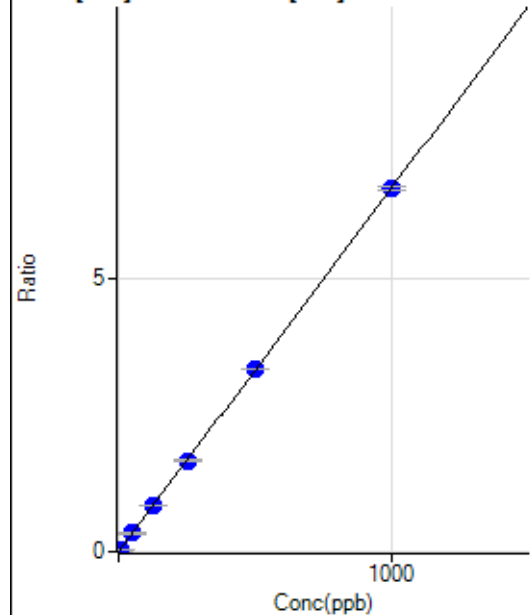
$$DL = 0.1497$$

$$BEC = 0.08563$$

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	8.89	0.0000	P	94.4
2	☐	5.000	4.831	12589.90	0.0321	P	0.8
3	☐	50.000	51.504	126567.72	0.3425	P	7.2
4	☐	125.000	126.053	307968.91	0.8381	P	1.0
5	☐	250.000	250.595	599947.09	1.6662	P	0.6
6	☐	500.000	503.354	1180588.98	3.3467	P	0.5
7	☐	1000.000	997.968	2349061.68	6.6352	P	1.1
8	☐			354.46	0.0010	P	8.8

$$y = 0.0066 * x + 2.2830E-005$$

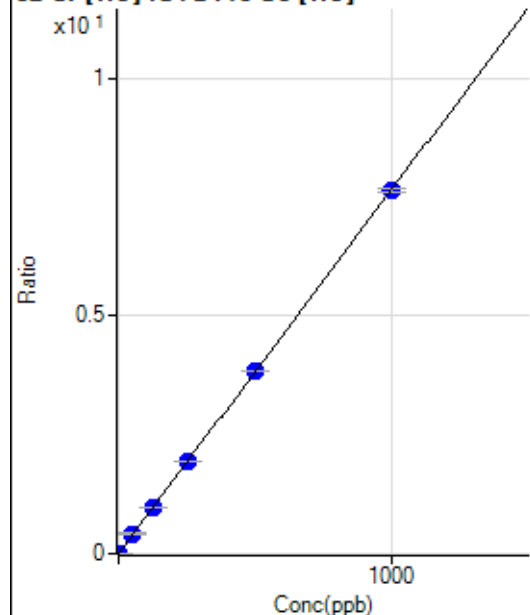
$$R = 1.0000$$

$$DL = 0.009725$$

$$BEC = 0.003434$$

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	1244.51	0.0032	P	5.0
2	☐	2.000	1.933	7050.64	0.0180	P	3.3
3	☐	50.000	54.005	153958.07	0.4165	P	6.8
4	☐	125.000	127.421	359498.43	0.9783	P	0.7
5	☐	250.000	252.919	698089.69	1.9387	P	0.6
6	☐	500.000	503.923	1361504.37	3.8596	P	0.1
7	☐	1000.000	996.806	2701766.77	7.6315	P	1.1
8	☐			10968.60	0.0309	P	1.3

$$y = 0.0077 * x + 0.0032$$

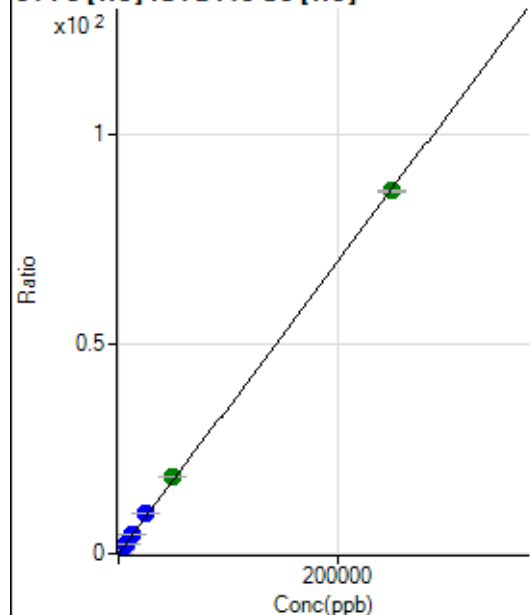
$$R = 1.0000$$

$$DL = 0.06328$$

$$BEC = 0.4185$$

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	1775.28	0.0046	P	4.9
2	☐	50.000	53.158	9018.74	0.0230	P	1.1
3	☐	2500.000	2823.269	363943.62	0.9848	P	7.4
4	☐	6250.000	6846.068	875072.05	2.3815	P	1.5
5	☐	12500.000	13594.462	1701222.63	4.7246	P	0.7
6	☐	25000.000	27129.188	3324336.04	9.4239	P	0.1
7	☐	50000.000	53233.623	6545198.87	18.4874	A	0.8
8	☐	250000.00	249067.49	30742700.37	86.4813	A	0.2

$$y = 3.4720E-004 * x + 0.0046$$

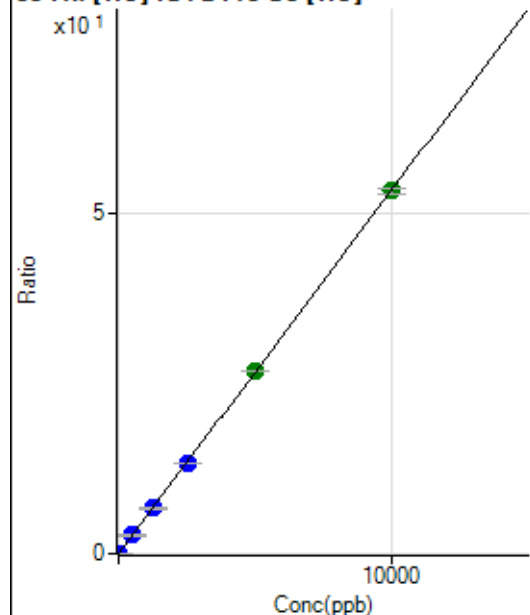
$$R = 0.9999$$

$$DL = 1.953$$

$$BEC = 13.16$$

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	103.34	0.0003	P	5.8
2	☐	1.000	0.967	2132.40	0.0054	P	5.6
3	☐	500.000	514.914	1018552.12	2.7561	P	7.3
4	☐	1250.000	1247.097	2452624.39	6.6747	P	1.1
5	☐	2500.000	2485.122	4789289.13	13.3005	P	0.7
6	☐	5000.000	5038.629	9512783.19	26.9668	A	0.2
7	☐	10000.000	9984.023	18917041.52	53.4344	A	1.3
8	☐			10564.99	0.0297	P	1.8

$$y = 0.0054 * x + 2.6600E-004$$

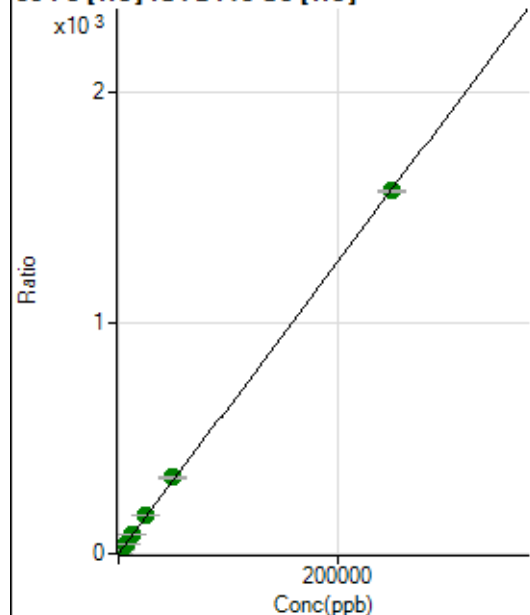
$$R = 1.0000$$

$$DL = 0.008594$$

$$BEC = 0.0497$$

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	8534.08	0.0220	P	0.9
2	☐	50.000	51.055	134876.72	0.3443	P	0.9
3	☐	2500.000	2719.111	6353410.96	17.1907	A	7.2
4	☐	6250.000	6599.208	15319048.37	41.6900	A	1.4
5	☐	12500.000	13190.484	29997548.59	83.3080	A	1.3
6	☐	25000.000	26339.099	58675892.98	166.3296	A	1.1
7	☐	50000.000	52297.944	116913254.4	330.2364	A	1.0
8	☐	250000.00	249361.05	559693819.9	1,574.512	A	0.6

$$y = 0.0063 * x + 0.0220$$

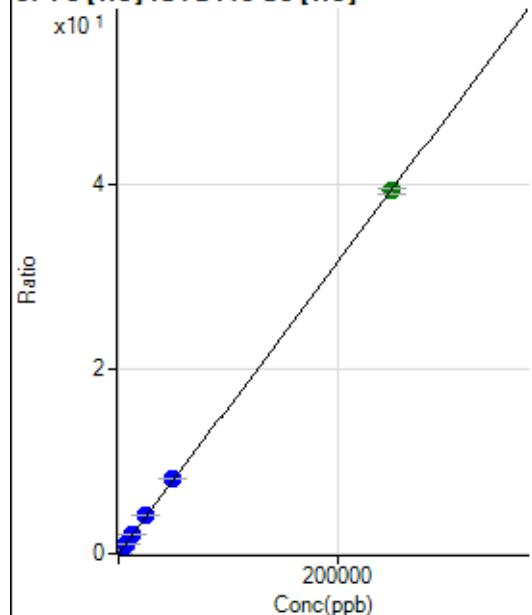
$$R = 0.9999$$

$$DL = 0.09207$$

$$BEC = 3.479$$

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	524.09	0.0013	P	20.0
2	☐	50.000	48.307	3504.19	0.0089	P	1.9
3	☐	2500.000	2712.780	158215.57	0.4279	P	6.3
4	☐	6250.000	6610.651	382454.71	1.0408	P	1.4
5	☐	12500.000	13084.099	741321.42	2.0588	P	1.4
6	☐	25000.000	26118.212	1449264.35	4.1083	P	0.6
7	☐	50000.000	51520.045	2868603.80	8.1027	P	0.9
8	☐	250000.00	249543.82	13948539.66	39.2411	A	1.3

$$y = 1.5725\text{E-}004 * x + 0.0013$$

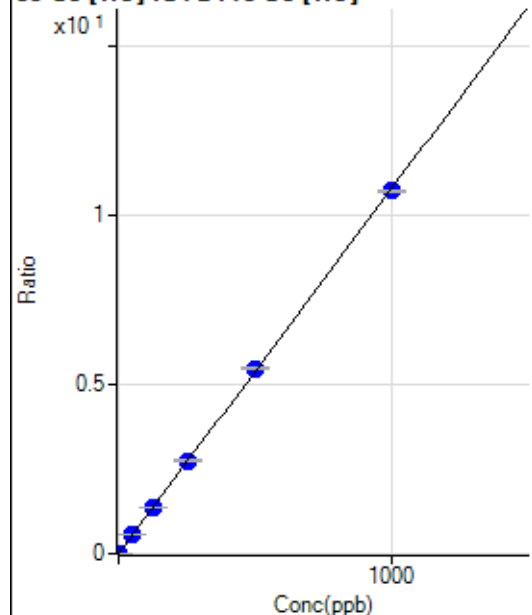
$$R = 1.0000$$

$$DL = 5.141$$

$$BEC = 8.58$$

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	58.89	0.0002	P	33.9
2	☐	1.000	0.964	4137.28	0.0106	P	0.7
3	☐	50.000	53.185	212335.57	0.5746	P	7.4
4	☐	125.000	128.216	508904.65	1.3849	P	1.1
5	☐	250.000	255.182	992446.53	2.7562	P	0.7
6	☐	500.000	508.120	1935983.60	5.4881	P	0.5
7	☐	1000.000	994.083	3801205.71	10.7367	P	0.4
8	☐			5596.67	0.0157	P	4.6

$$y = 0.0108 * x + 1.5147\text{E-}004$$

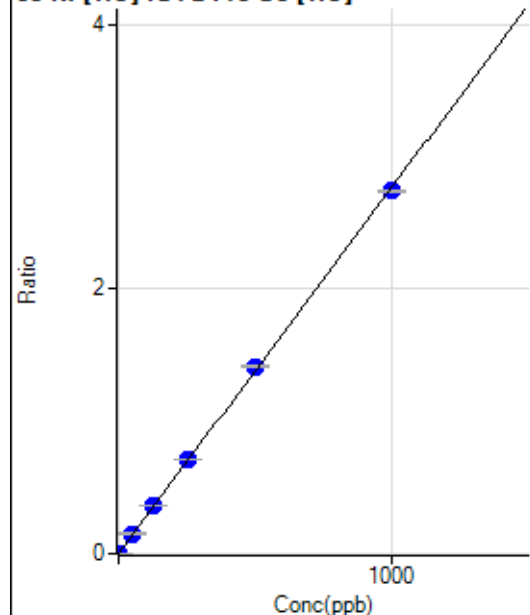
$$R = 0.9999$$

$$DL = 0.01425$$

$$BEC = 0.01402$$

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	122.23	0.0003	P	18.1
2	☐	1.000	0.997	1203.39	0.0031	P	2.8
3	☐	50.000	54.089	55433.00	0.1499	P	6.5
4	☐	125.000	129.225	131476.74	0.3578	P	0.3
5	☐	250.000	258.121	257213.89	0.7143	P	1.0
6	☐	500.000	511.250	498998.90	1.4146	P	0.6
7	☐	1000.000	991.612	971237.00	2.7434	P	0.9
8	☐			3009.22	0.0085	P	3.2

$$y = 0.0028 * x + 3.1473E-004$$

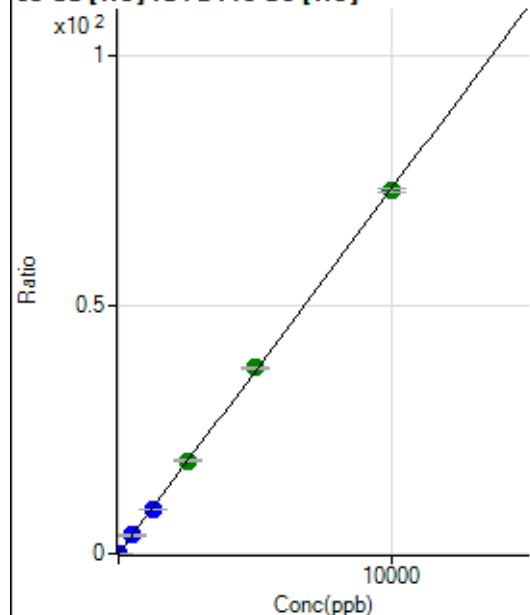
$$R = 0.9999$$

$$DL = 0.06176$$

$$BEC = 0.1138$$

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	1978.32	0.0051	P	4.3
2	☐	2.000	1.993	7725.36	0.0197	P	3.5
3	☐	500.000	504.583	1370872.90	3.7084	P	6.7
4	☐	1250.000	1224.446	3304113.92	8.9917	P	0.8
5	☐	2500.000	2553.241	6749238.82	18.7442	A	1.1
6	☐	5000.000	5096.698	13197515.07	37.4114	A	1.0
7	☐	10000.000	9941.306	25833264.05	72.9675	A	0.9
8	☐			10738.83	0.0302	P	1.0

$$y = 0.0073 * x + 0.0051$$

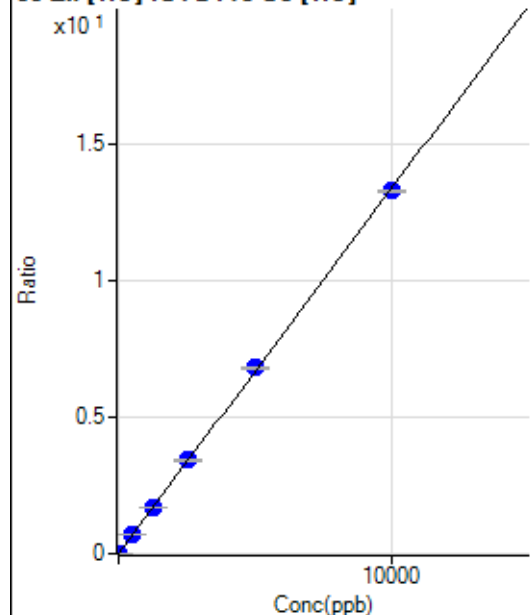
$$R = 0.9999$$

$$DL = 0.08968$$

$$BEC = 0.6938$$

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	427.79	0.0011	P	4.7
2	☐	2.000	2.136	1550.10	0.0040	P	1.2
3	☐	500.000	527.243	260962.11	0.7060	P	7.0
4	☐	1250.000	1280.512	629500.53	1.7132	P	1.3
5	☐	2500.000	2555.904	1230888.25	3.4184	P	0.3
6	☐	5000.000	5089.147	2400659.32	6.8054	P	0.3
7	☐	10000.000	9936.274	4703749.13	13.2861	P	0.6
8	☐			6196.93	0.0174	P	0.4

$$y = 0.0013 * x + 0.0011$$

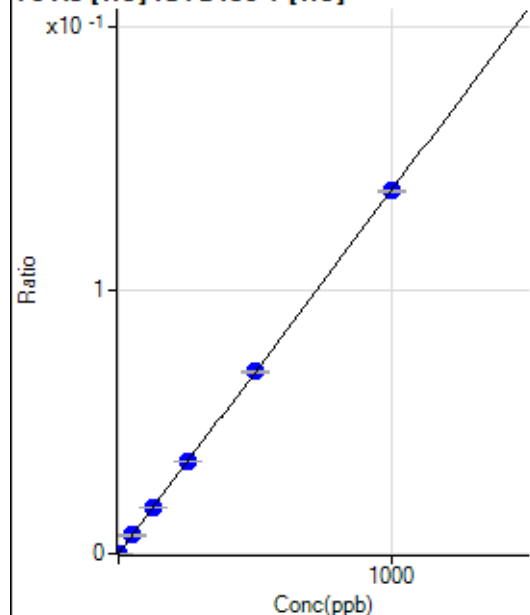
$$R = 0.9999$$

$$DL = 0.116$$

$$BEC = 0.8235$$

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	9.26	0.0000	P	20.0
2	☐	1.000	0.965	391.37	0.0001	P	9.3
3	☐	50.000	52.324	19829.56	0.0072	P	8.7
4	☐	125.000	126.993	48189.76	0.0175	P	1.4
5	☐	250.000	253.179	95188.51	0.0350	P	0.2
6	☐	500.000	501.098	187208.36	0.0692	P	0.5
7	☐	1000.000	998.291	372391.49	0.1379	P	0.3
8	☐			175.31	0.0001	P	16.2

$$y = 1.3813E-004 * x + 3.2241E-006$$

$$R = 1.0000$$

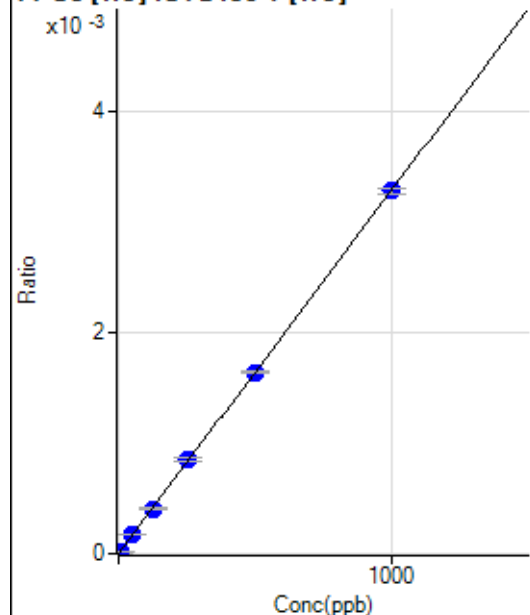
$$DL = 0.01399$$

$$BEC = 0.02334$$

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	2.22	0.0000	P	86.6
2	☐	5.000	5.430	53.33	0.0000	P	13.3
3	☐	50.000	53.439	485.57	0.0002	P	6.6
4	☐	125.000	123.226	1114.50	0.0004	P	3.4
5	☐	250.000	259.607	2323.54	0.0009	P	3.8
6	☐	500.000	498.077	4428.50	0.0016	P	1.3
7	☐	1000.000	998.607	8862.78	0.0033	P	1.6
8	☐			4.44	0.0000	P	43.6

$$y = 3.2859\text{E-}006 * x + 7.7202\text{E-}007$$

R = 0.9999

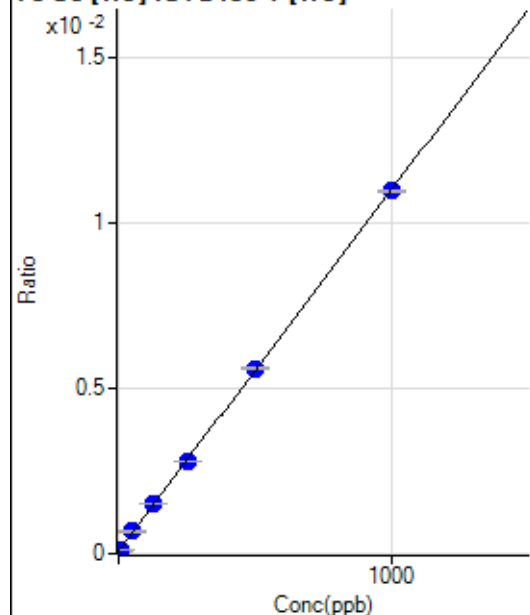
DL = 0.6104

BEC = 0.235

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	240.74	0.0001	P	13.6
2	☐	5.000	4.422	378.40	0.0001	P	7.5
3	☐	50.000	54.109	1847.04	0.0007	P	8.7
4	☐	125.000	129.343	4102.45	0.0015	P	1.5
5	☐	250.000	248.913	7611.90	0.0028	P	0.7
6	☐	500.000	505.168	15117.78	0.0056	P	0.7
7	☐	1000.000	996.942	29570.77	0.0109	P	0.3
8	☐			200.00	0.0001	P	12.5

$$y = 1.0899\text{E-}005 * x + 8.3784\text{E-}005$$

R = 1.0000

DL = 3.146

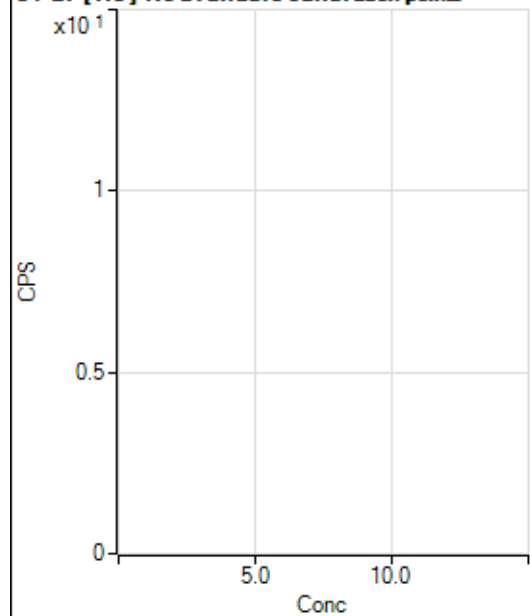
BEC = 7.687

Weight: <None>

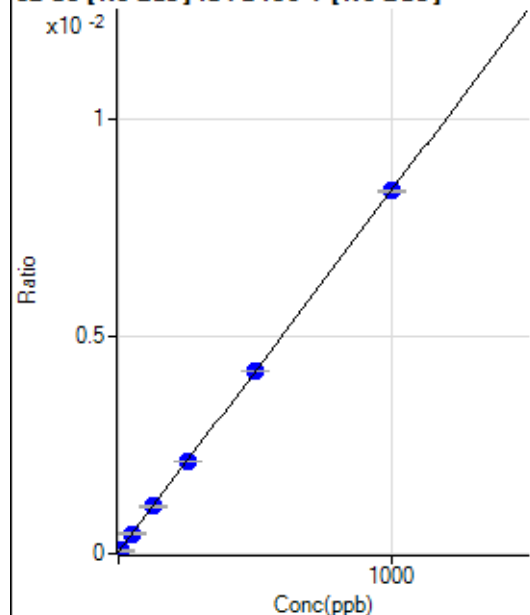
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3344.91		P	2.2
2	☐			3005.95		P	6.0
3	☐			3092.08		P	3.3
4	☐			2928.14		P	4.8
5	☐			3058.74		P	1.4
6	☐			2739.22		P	5.3
7	☐			2864.25		P	4.6
8	☐			3017.07		P	5.8

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			83.42		P	42.1
2	☐			30.03		P	66.7
3	☐			76.74		P	19.9
4	☐			76.75		P	58.8
5	☐			63.40		P	24.1
6	☐			50.05		P	40.0
7	☐			76.75		P	45.8
8	☐			66.73		P	8.7

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	381.39	0.0000	P	11.9
2	☐	5.000	3.575	681.92	0.0001	P	15.3
3	☐	50.000	50.985	4593.46	0.0005	P	1.0
4	☐	125.000	126.183	10703.06	0.0011	P	3.5
5	☐	250.000	250.815	20670.53	0.0021	P	1.2
6	☐	500.000	501.992	40372.68	0.0042	P	0.2
7	☐	1000.000	998.611	79683.26	0.0083	P	0.7
8	☐			338.99	0.0000	P	21.4

$$y = 8.3212\text{E-}006 * x + 3.8522\text{E-}005$$

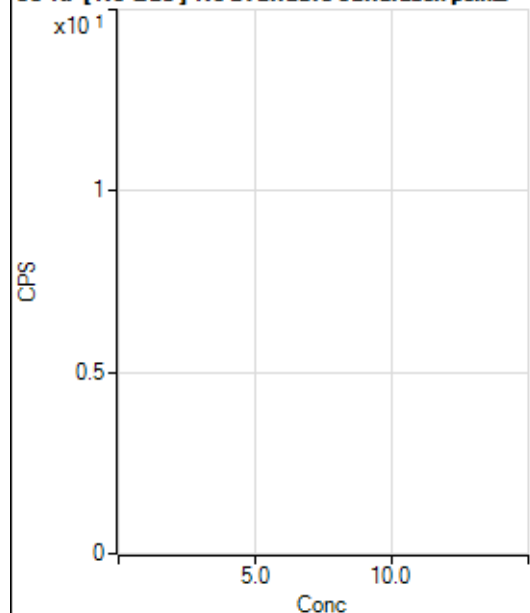
$$R = 1.0000$$

$$DL = 1.646$$

$$BEC = 4.629$$

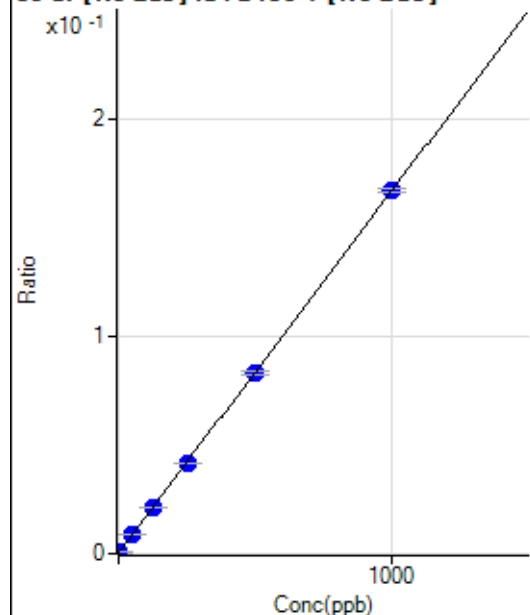
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1897.92		P	3.9
2	☐			2042.39		P	9.9
3	☐			1720.12		P	0.7
4	☐			1691.23		P	6.6
5	☐			1800.13		P	2.5
6	☐			1682.34		P	5.9
7	☐			1695.67		P	5.2
8	☐			1759.01		P	4.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3231.00	0.0003	P	4.1
2	☐	1.000	0.948	4845.38	0.0005	P	3.3
3	☐	50.000	50.215	86053.72	0.0087	P	1.5
4	☐	125.000	126.230	209480.52	0.0213	P	0.2
5	☐	250.000	248.789	405181.74	0.0417	P	0.4
6	☐	500.000	497.636	794925.40	0.0830	P	1.2
7	☐	1000.000	1001.320	1591155.83	0.1667	P	1.1
8	☐			11221.34	0.0012	P	5.1

$$y = 1.6615\text{E-}004 * x + 3.2723\text{E-}004$$

$$R = 1.0000$$

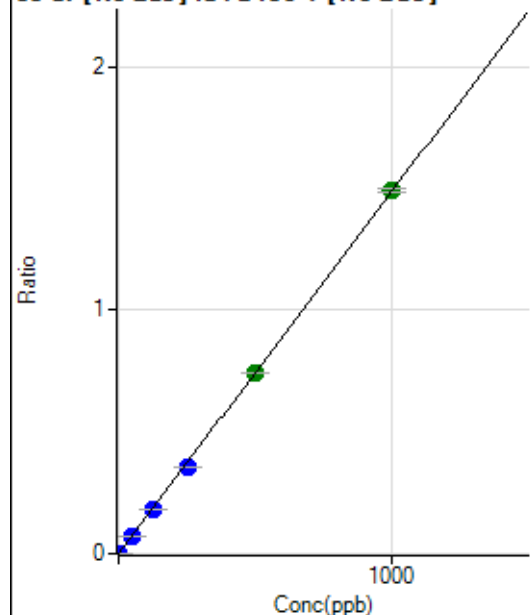
$$DL = 0.2393$$

$$BEC = 1.969$$

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	50.00	0.0000	P	22.6
2	☐	1.000	0.936	13945.95	0.0014	P	1.6
3	☐	50.000	48.789	719334.32	0.0725	P	1.8
4	☐	125.000	121.278	1771739.82	0.1802	P	0.7
5	☐	250.000	240.195	3470050.86	0.3568	P	0.7
6	☐	500.000	499.445	7105089.05	0.7419	A	0.3
7	☐	1000.000	1003.254	14225252.92	1.4903	A	1.1
8	☐			74439.87	0.0079	P	2.7

$$y = 0.0015 * x + 5.1074\text{E-}006$$

$$R = 0.9999$$

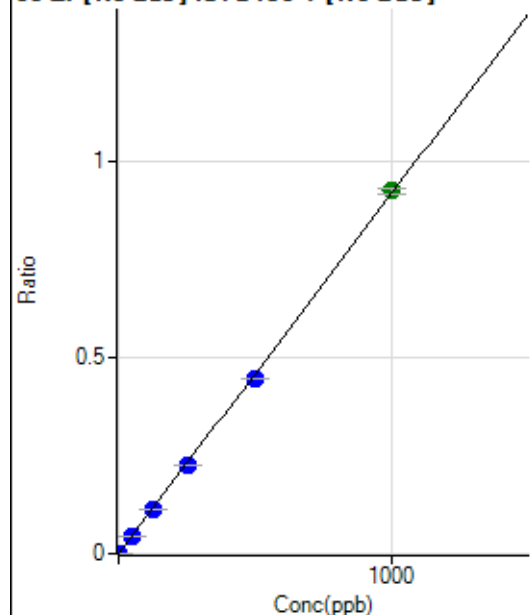
$$DL = 0.00233$$

$$BEC = 0.003438$$

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	394.46	0.0000	P	8.9
2	☐	1.000	0.936	8997.47	0.0009	P	3.0
3	☐	50.000	48.881	446128.03	0.0450	P	1.3
4	☐	125.000	123.360	1115001.45	0.1134	P	0.7
5	☐	250.000	244.991	2189426.89	0.2251	P	0.1
6	☐	500.000	487.156	4286775.96	0.4476	P	0.6
7	☐	1000.000	1007.936	8839727.54	0.9261	A	1.4
8	☐			4389.71	0.0005	P	16.3

$$y = 9.1879\text{E-}004 * x + 3.9897\text{E-}005$$

$$R = 0.9999$$

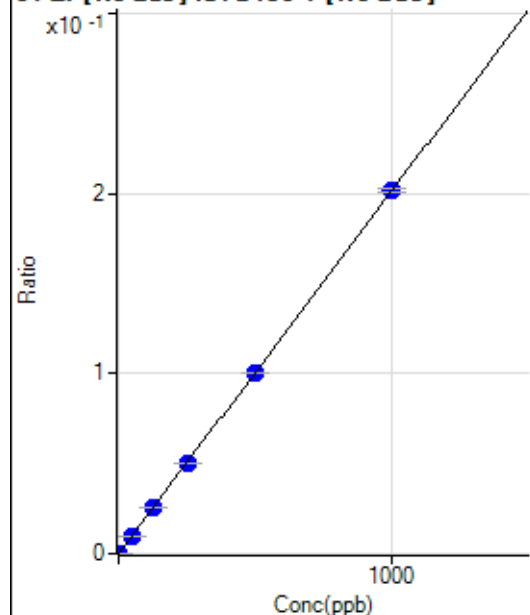
$$DL = 0.01158$$

$$BEC = 0.04342$$

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	75.00	0.0000	P	34.6
2	☐	1.000	0.945	1977.96	0.0002	P	5.1
3	☐	50.000	49.543	99035.00	0.0100	P	1.5
4	☐	125.000	125.979	249443.90	0.0254	P	1.0
5	☐	250.000	248.383	486233.96	0.0500	P	0.4
6	☐	500.000	498.001	959918.13	0.1002	P	0.4
7	☐	1000.000	1001.304	1923616.62	0.2015	P	1.0
8	☐			986.18	0.0001	P	30.4

$$y = 2.0126\text{E-}004 * x + 7.6715\text{E-}006$$

$$R = 1.0000$$

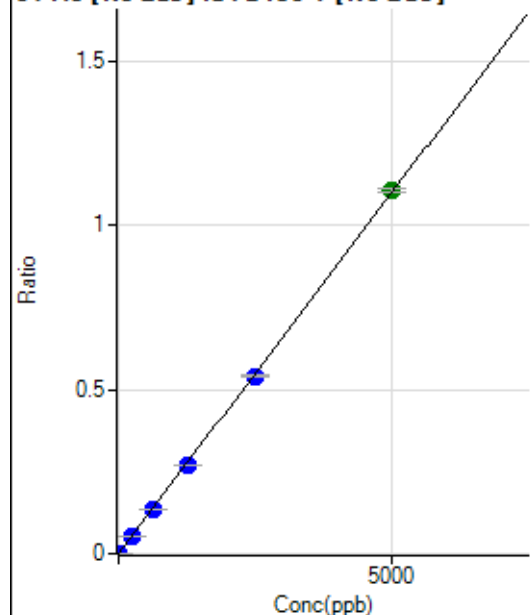
$$DL = 0.03955$$

$$BEC = 0.03812$$

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	127.78	0.0000	P	12.9
2	☐	5.000	4.920	10932.27	0.0011	P	3.9
3	☐	250.000	249.322	543785.14	0.0548	P	1.9
4	☐	625.000	618.375	1336248.18	0.1359	P	0.8
5	☐	1250.000	1223.315	2614082.39	0.2688	P	0.8
6	☐	2500.000	2457.509	5170902.38	0.5400	P	0.9
7	☐	5000.000	5028.779	10546561.52	1.1049	A	0.9
8	☐			4884.35	0.0005	P	17.9

$$y = 2.1972\text{E-}004 * x + 1.2939\text{E-}005$$

$$R = 0.9999$$

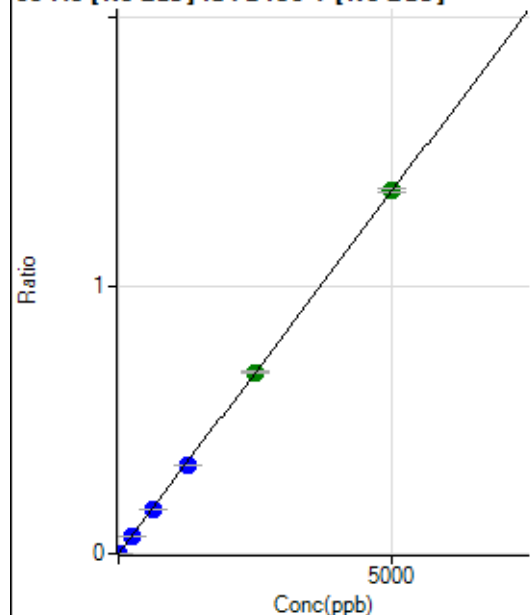
$$DL = 0.02276$$

$$BEC = 0.05889$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.89	0.0000	P	90.6
2	☐	5.000	4.853	13122.96	0.0013	P	2.4
3	☐	250.000	246.697	661717.65	0.0667	P	1.5
4	☐	625.000	616.818	1639375.40	0.1667	P	0.8
5	☐	1250.000	1220.978	3209134.01	0.3300	P	0.5
6	☐	2500.000	2500.393	6471147.54	0.6758	A	1.2
7	☐	5000.000	5008.247	12919510.53	1.3535	A	1.2
8	☐			5631.90	0.0006	P	16.8

$$y = 2.7026\text{E-}004 * x + 1.4485\text{E-}006$$

$$R = 1.0000$$

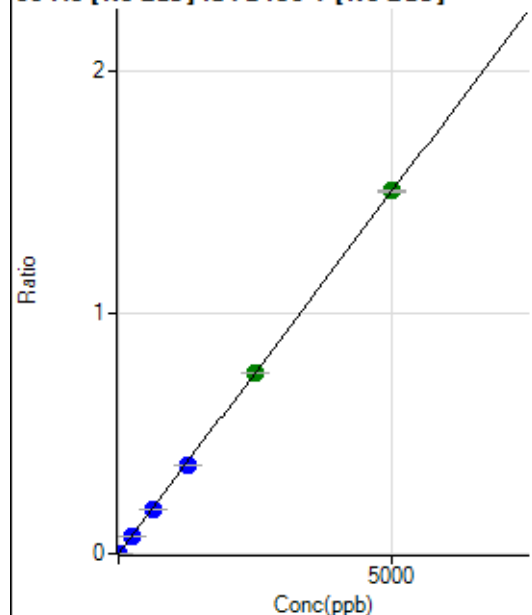
$$DL = 0.01456$$

$$BEC = 0.00536$$

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	55.56	0.0000	P	37.0
2	☐	5.000	4.845	14604.99	0.0015	P	0.5
3	☐	250.000	247.042	736675.11	0.0742	P	1.6
4	☐	625.000	615.792	1819508.13	0.1850	P	0.6
5	☐	1250.000	1218.430	3560156.76	0.3661	P	0.7
6	☐	2500.000	2496.186	7182179.93	0.7500	A	0.5
7	☐	5000.000	5011.098	14370636.95	1.5056	A	0.4
8	☐			7179.88	0.0008	P	16.1

$$y = 3.0044\text{E-}004 * x + 5.7035\text{E-}006$$

$$R = 1.0000$$

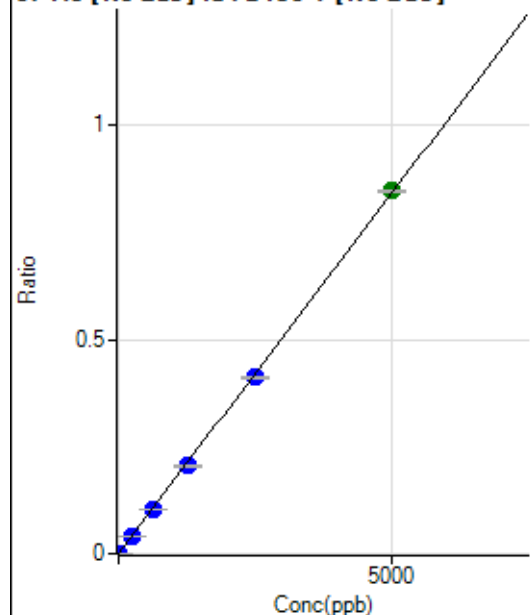
$$DL = 0.02108$$

$$BEC = 0.01898$$

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	16.67	0.0000	P	6.2
2	☐	5.000	4.889	8230.36	0.0008	P	3.4
3	☐	250.000	248.009	413789.69	0.0417	P	1.2
4	☐	625.000	615.462	1017465.56	0.1035	P	0.5
5	☐	1250.000	1220.091	1994662.89	0.2051	P	1.0
6	☐	2500.000	2447.012	3939246.27	0.4113	P	0.5
7	☐	5000.000	5035.263	8079292.98	0.8464	A	0.8
8	☐			3475.56	0.0004	P	18.6

$$y = 1.6810\text{E-}004 * x + 1.6912\text{E-}006$$

$$R = 0.9999$$

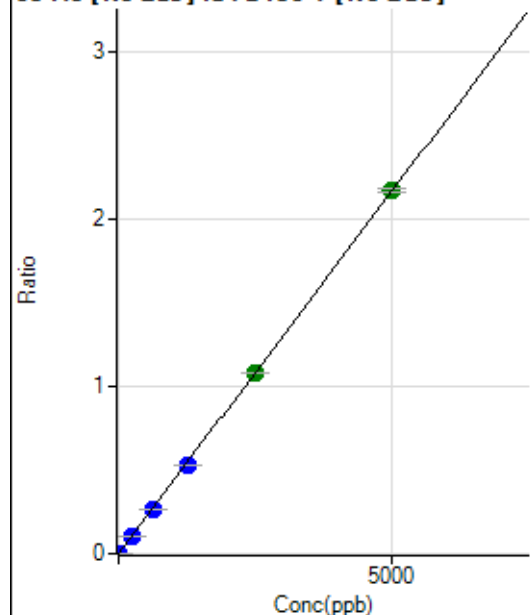
$$DL = 0.00187$$

$$BEC = 0.01006$$

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	25.00	0.0000	P	88.3
2	☐	5.000	4.938	21341.38	0.0021	P	4.8
3	☐	250.000	247.988	1063270.80	0.1071	P	1.1
4	☐	625.000	616.783	2620331.68	0.2664	P	0.3
5	☐	1250.000	1216.260	5109743.82	0.5254	P	0.4
6	☐	2500.000	2494.781	10320780.96	1.0777	A	0.4
7	☐	5000.000	5012.172	20666858.97	2.1652	A	1.1
8	☐			9192.21	0.0010	P	16.8

$$y = 4.3199\text{E-}004 * x + 2.5641\text{E-}006$$

$$R = 1.0000$$

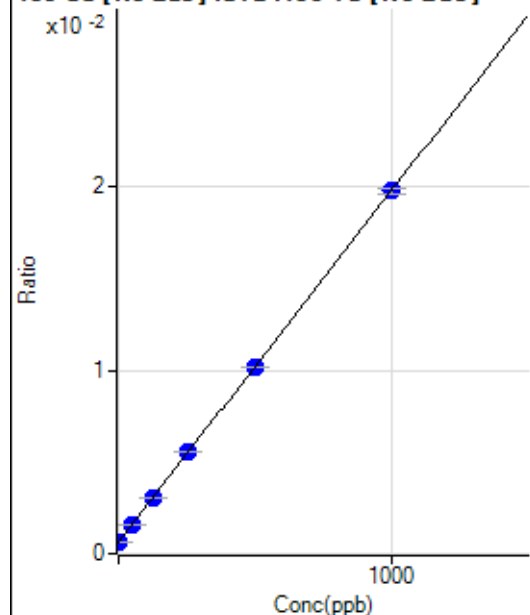
$$DL = 0.01572$$

$$BEC = 0.005936$$

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	4525.84	0.0006	P	5.4
2	☐	1.000	0.916	4753.72	0.0007	P	3.2
3	☐	50.000	50.682	11554.96	0.0016	P	0.4
4	☐	125.000	126.654	22012.01	0.0031	P	1.2
5	☐	250.000	256.017	39831.34	0.0055	P	0.6
6	☐	500.000	498.722	73573.54	0.0102	P	0.3
7	☐	1000.000	998.894	141981.57	0.0198	P	1.6
8	☐			4539.74	0.0007	P	5.4

$$y = 1.9160\text{E-}005 * x + 6.4101\text{E-}004$$

$$R = 1.0000$$

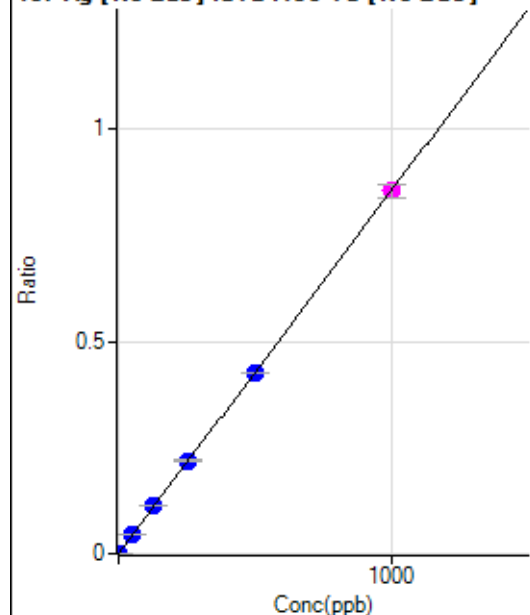
$$DL = 5.402$$

$$BEC = 33.46$$

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	88.89	0.0000	P	35.5
2	☐	1.000	1.066	6673.98	0.0009	P	2.5
3	☐	50.000	52.735	323222.46	0.0451	P	0.3
4	☐	125.000	130.276	799223.97	0.1114	P	0.7
5	☐	250.000	255.958	1571381.29	0.2188	P	0.8
6	☐	500.000	497.369	3067889.63	0.4252	P	0.9
7	☐	1000.000	999.030	6130511.03	0.8541	M	4.0
8	☐			3200.45	0.0005	P	15.8

$$y = 8.5487\text{E-}004 * x + 1.2710\text{E-}005$$

$$R = 1.0000$$

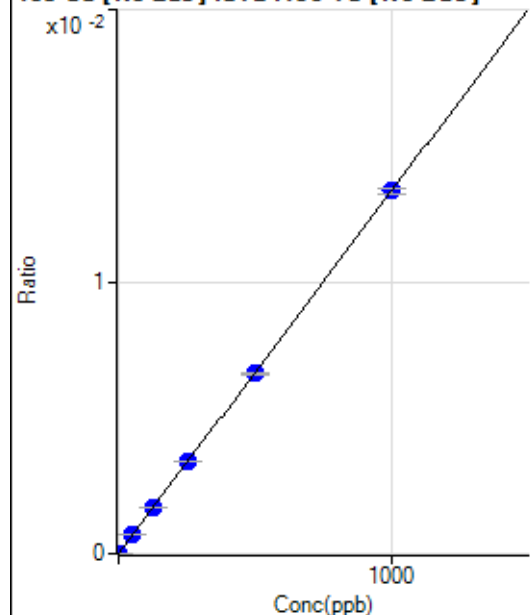
$$DL = 0.01582$$

$$BEC = 0.01487$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	22.3
2	☐	1.000	1.289	152.78	0.0000	P	12.0
3	☐	50.000	51.139	4916.19	0.0007	P	0.5
4	☐	125.000	127.891	12265.12	0.0017	P	1.7
5	☐	250.000	254.931	24440.54	0.0034	P	0.4
6	☐	500.000	496.383	47789.77	0.0066	P	0.5
7	☐	1000.000	1000.157	95762.21	0.0133	P	1.8
8	☐			95.84	0.0000	P	32.3

$$y = 1.3334\text{E-}005 * x + 3.9608\text{E-}006$$

$$R = 1.0000$$

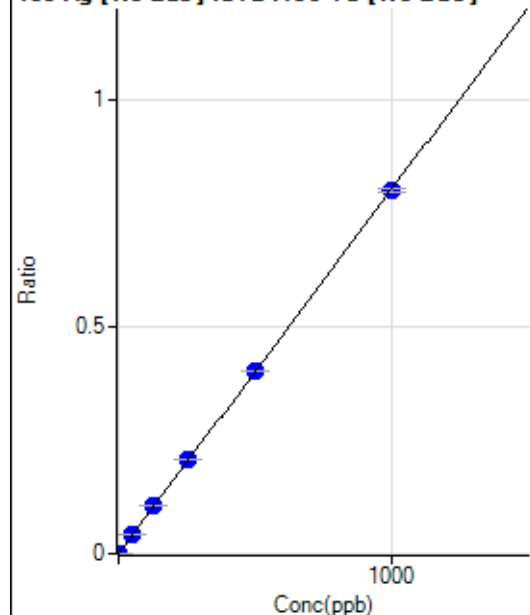
$$DL = 0.1987$$

$$BEC = 0.297$$

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	30.56	0.0000	P	37.4
2	☐	1.000	0.994	5790.24	0.0008	P	4.1
3	☐	50.000	53.361	306899.05	0.0428	P	1.3
4	☐	125.000	131.654	757993.12	0.1056	P	0.3
5	☐	250.000	257.480	1483645.59	0.2066	P	0.3
6	☐	500.000	502.234	2907621.94	0.4030	P	0.6
7	☐	1000.000	996.013	5736507.07	0.7992	P	0.9
8	☐			2950.40	0.0004	P	10.9

$$y = 8.0236\text{E-}004 * x + 4.2714\text{E-}006$$

$$R = 1.0000$$

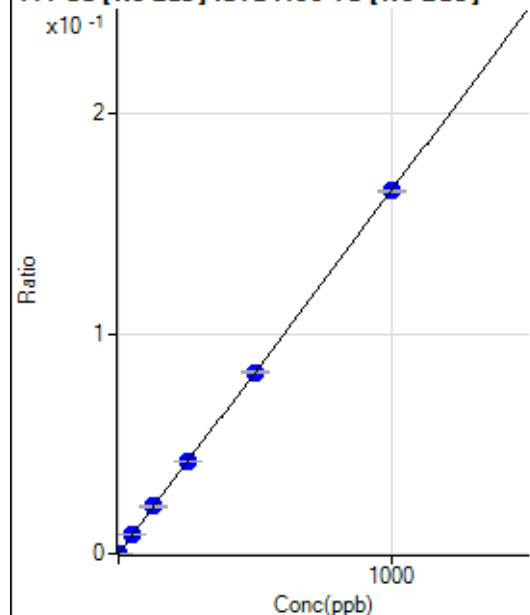
$$DL = 0.005973$$

$$BEC = 0.005323$$

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	213.79	0.0000	P	5.5
2	☐	1.000	1.180	1626.67	0.0002	P	3.4
3	☐	50.000	52.233	62083.98	0.0087	P	1.0
4	☐	125.000	129.662	153962.63	0.0215	P	0.5
5	☐	250.000	254.796	302590.59	0.0421	P	0.5
6	☐	500.000	498.304	594354.53	0.0824	P	1.1
7	☐	1000.000	998.954	1185197.09	0.1651	P	0.6
8	☐			818.26	0.0001	P	21.7

$$y = 1.6525\text{E-}004 * x + 3.0262\text{E-}005$$

$$R = 1.0000$$

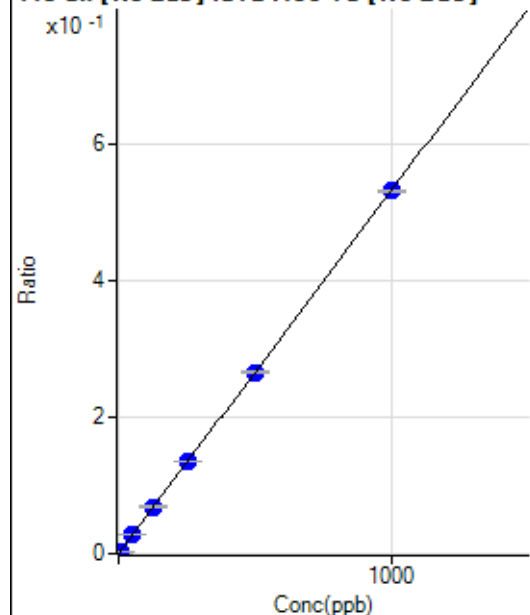
$$DL = 0.03011$$

$$BEC = 0.1831$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	413.91	0.0001	P	16.4
2	☐	5.000	4.876	19146.74	0.0027	P	3.8
3	☐	50.000	52.034	198773.72	0.0277	P	0.9
4	☐	125.000	129.337	493995.37	0.0688	P	0.8
5	☐	250.000	253.869	969967.36	0.1351	P	1.1
6	☐	500.000	499.727	1918062.54	0.2658	P	0.5
7	☐	1000.000	998.526	3812353.25	0.5311	P	0.9
8	☐			2614.22	0.0004	P	24.6

$$y = 5.3183\text{E-}004 * x + 5.8823\text{E-}005$$

$$R = 1.0000$$

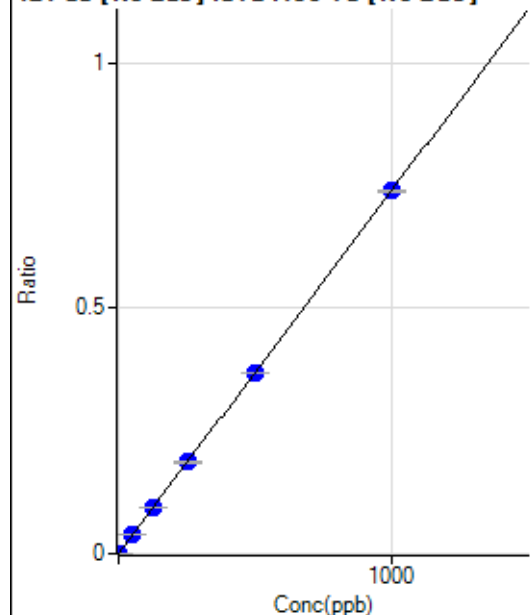
$$DL = 0.05427$$

$$BEC = 0.1106$$

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	38.89	0.0000	P	25.8
2	☐	2.000	1.971	10565.40	0.0015	P	2.5
3	☐	50.000	51.291	272021.04	0.0380	P	0.3
4	☐	125.000	127.004	674233.07	0.0940	P	1.0
5	☐	250.000	252.505	1341439.26	0.1868	P	1.2
6	☐	500.000	498.422	2660590.08	0.3687	P	0.5
7	☐	1000.000	999.848	5309662.14	0.7397	P	0.5
8	☐			4206.30	0.0006	P	12.2

$$y = 7.3980\text{E-}004 * x + 5.5216\text{E-}006$$

$$R = 1.0000$$

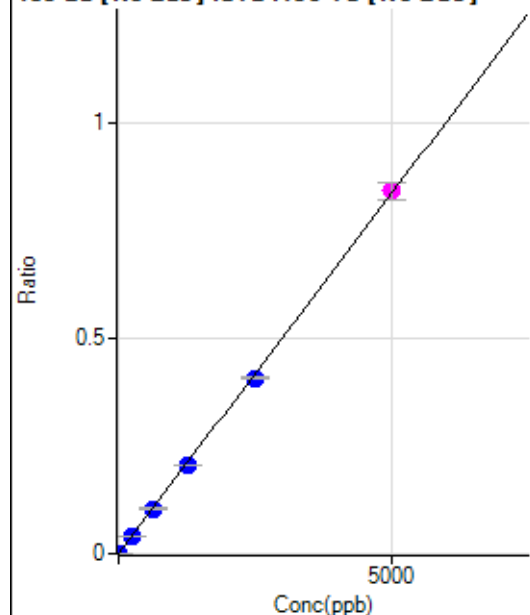
$$DL = 0.005776$$

$$BEC = 0.007464$$

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	13.89	0.0000	P	90.7
2	☐	10.000	9.871	11927.60	0.0017	P	2.3
3	☐	250.000	251.221	301019.73	0.0420	P	0.9
4	☐	625.000	626.806	751870.68	0.1048	P	0.6
5	☐	1250.000	1228.430	1474713.72	0.2054	P	0.2
6	☐	2500.000	2436.833	2939234.96	0.4074	P	0.7
7	☐	5000.000	5036.690	6043057.38	0.8420	M	4.9
8	☐			2266.94	0.0003	P	35.5

$$y = 1.6717\text{E-}004 * x + 2.0187\text{E-}006$$

$$R = 0.9999$$

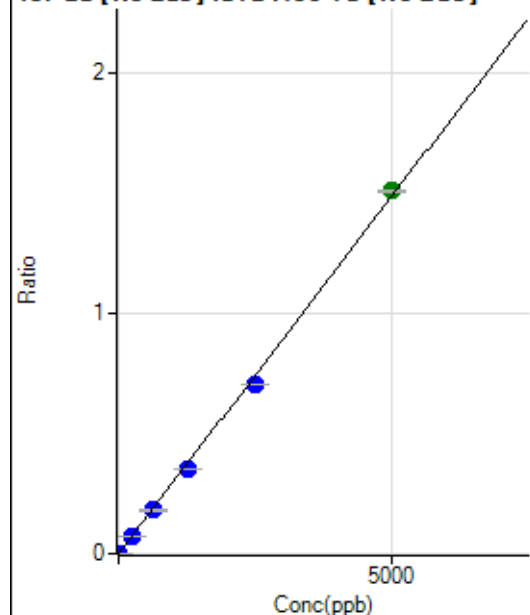
$$DL = 0.03284$$

$$BEC = 0.01208$$

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	22.22	0.0000	P	58.7
2	☐	10.000	9.801	21080.35	0.0029	P	0.9
3	☐	250.000	245.140	522870.06	0.0730	P	1.1
4	☐	625.000	608.449	1299230.10	0.1811	P	1.1
5	☐	1250.000	1192.627	2548549.23	0.3549	P	0.8
6	☐	2500.000	2369.540	5087568.34	0.7051	P	0.9
7	☐	5000.000	5081.886	10855297.38	1.5123	A	0.8
8	☐			4128.54	0.0006	P	21.7

$$y = 2.9758\text{E-}004 * x + 3.2005\text{E-}006$$

$$R = 0.9994$$

$$DL = 0.01895$$

$$BEC = 0.01076$$

Weight: <None>

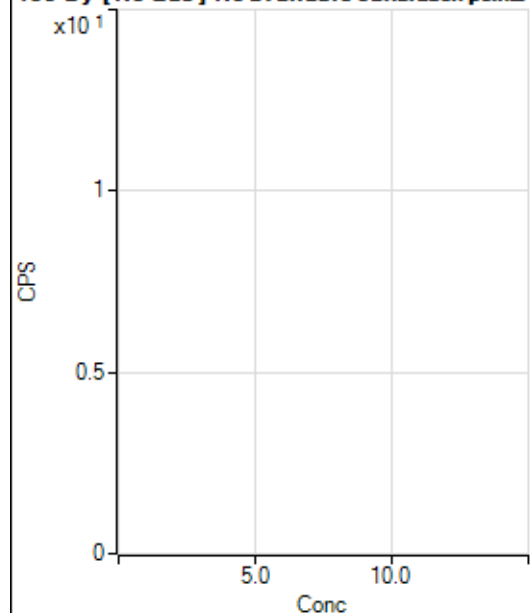
Min Conc: 0

150 Nd [No Gas] No available calibration points

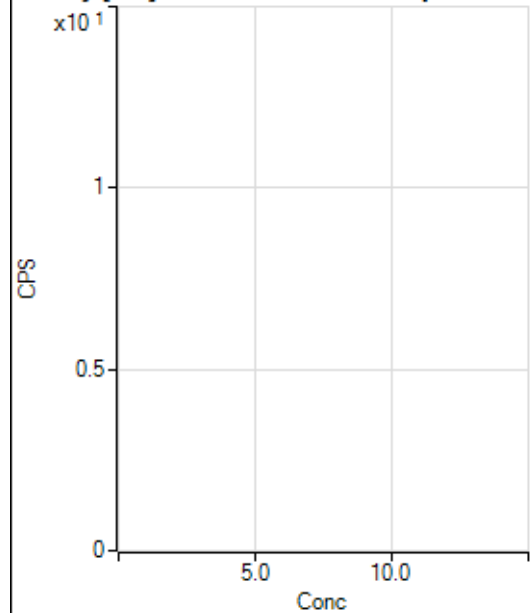
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			2.22		P	173.
3	☐			22.22		P	75.5
4	☐			46.67		P	14.3
5	☐			91.12		P	25.7
6	☐			193.34		P	32.9
7	☐			375.57		P	12.8
8	☐			33.33		P	34.6

150 Nd [He] No available calibration points

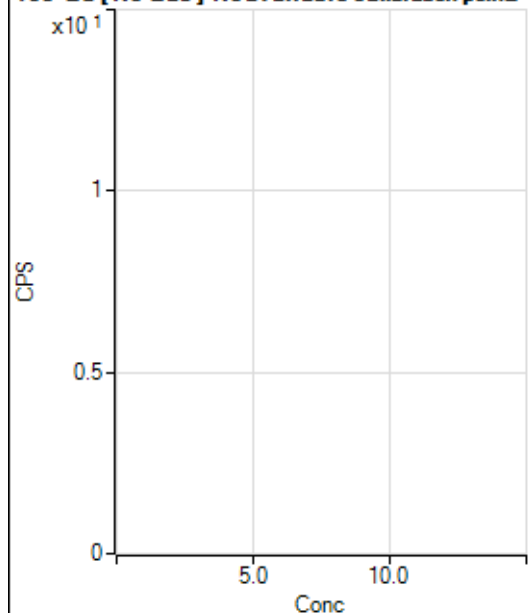
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			1.11		P	173.
3	☐			5.56		P	91.6
4	☐			15.56		P	53.9
5	☐			26.67		P	12.5
6	☐			50.00		P	20.0
7	☐			82.22		P	19.2
8	☐			16.67		P	52.9

156 Dy [No Gas] No available calibration points

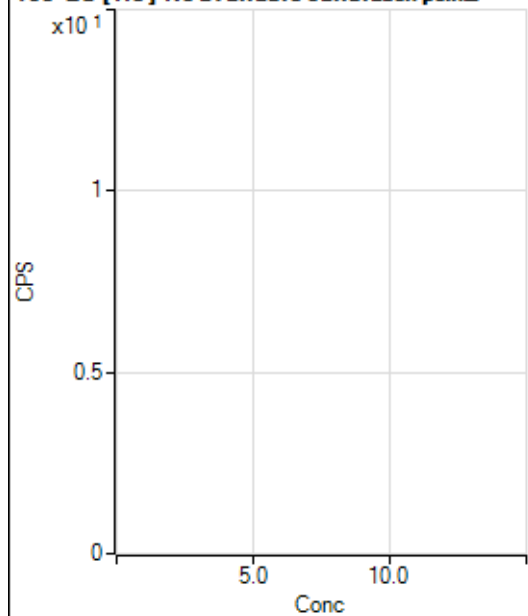
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	43.3
2	☐			13.89		P	124.
3	☐			19.44		P	65.5
4	☐			38.89		P	65.5
5	☐			55.56		P	45.8
6	☐			130.56		P	13.3
7	☐			186.12		P	18.6
8	☐			1300.10		P	10.9

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.33		P	50.0
2	☐			5.56		P	34.7
3	☐			11.11		P	96.4
4	☐			11.11		P	34.6
5	☐			22.22		P	34.7
6	☐			62.22		P	21.7
7	☐			105.56		P	26.3
8	☐			887.82		P	10.0

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

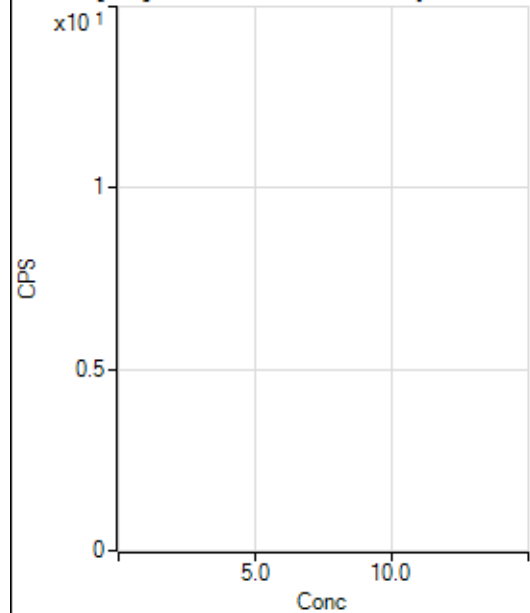
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			86.11		P	55.0
2	☐			52.78		P	36.5
3	☐			69.45		P	38.6
4	☐			86.11		P	31.1
5	☐			75.00		P	33.3
6	☐			113.89		P	48.7
7	☐			183.34		P	13.6
8	☐			1291.76		P	6.2

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			71.11		P	15.1
2	☐			71.11		P	18.9
3	☐			70.00		P	24.7
4	☐			72.22		P	30.7
5	☐			76.67		P	13.0
6	☐			124.45		P	9.4
7	☐			148.89		P	12.3
8	☐			1127.83		P	3.7

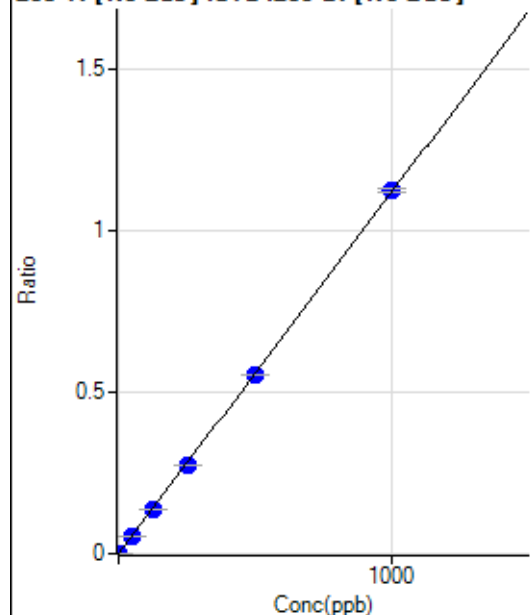
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	66.2
2	☐			33.33		P	0.0
3	☐			30.55		P	68.6
4	☐			50.00		P	16.7
5	☐			61.11		P	20.8
6	☐			30.55		P	15.7
7	☐			91.67		P	24.1
8	☐			169.45		P	10.2

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	20.0
2	☐			27.78		P	25.0
3	☐			28.89		P	33.3
4	☐			38.89		P	40.5
5	☐			20.00		P	44.1
6	☐			32.22		P	15.8
7	☐			37.78		P	31.0
8	☐			143.34		P	25.2

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	380.57	0.0001	P	2.7
2	☐	1.000	0.852	4156.31	0.0011	P	4.3
3	☐	50.000	49.052	216688.05	0.0550	P	1.1
4	☐	125.000	123.217	544648.59	0.1379	P	1.4
5	☐	250.000	244.477	1081674.76	0.2736	P	0.8
6	☐	500.000	495.156	2187328.52	0.5540	P	0.4
7	☐	1000.000	1004.073	4351745.02	1.1233	P	1.0
8	☐			2091.90	0.0006	P	26.4

$$y = 0.0011 * x + 9.7138E-005$$

$$R = 1.0000$$

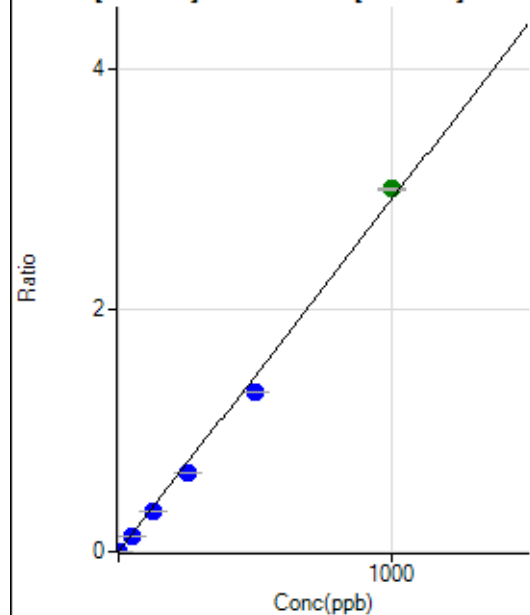
$$DL = 0.006999$$

$$BEC = 0.08684$$

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	936.17	0.0002	P	7.2
2	☐	1.000	0.853	10788.00	0.0027	P	5.6
3	☐	50.000	44.990	518081.89	0.1314	P	1.1
4	☐	125.000	113.758	1310722.50	0.3319	P	1.0
5	☐	250.000	225.643	2602284.87	0.6582	P	0.3
6	☐	500.000	453.671	5223861.79	1.3231	P	0.6
7	☐	1000.000	1030.910	11646573.96	3.0062	A	0.6
8	☐			5048.35	0.0014	P	15.8

$$y = 0.0029 * x + 2.3854E-004$$

$$R = 0.9981$$

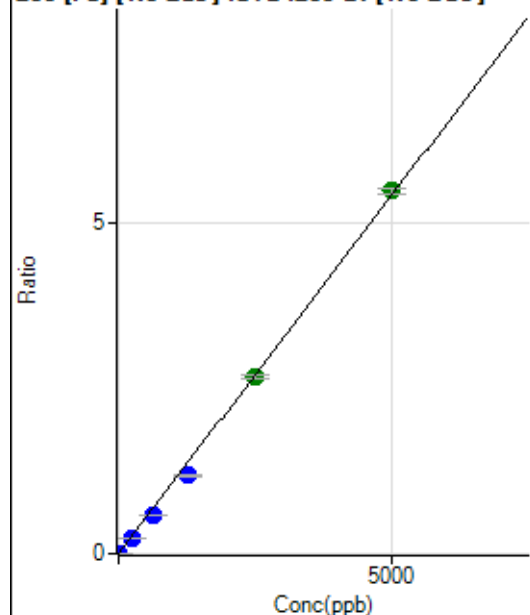
$$DL = 0.01771$$

$$BEC = 0.08181$$

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	501.87	0.0001	P	7.5
2	☐	1.000	0.833	4071.05	0.0010	P	0.5
3	☐	250.000	216.853	923825.46	0.2343	P	1.2
4	☐	625.000	545.823	2328363.57	0.5897	P	1.0
5	☐	1250.000	1088.628	4649269.61	1.1759	P	0.7
6	☐	2500.000	2472.109	10542207.99	2.6702	A	1.3
7	☐	5000.000	5065.843	21197643.99	5.4716	A	1.3
8	☐			23341.22	0.0065	P	7.0

$$y = 0.0011 * x + 1.2862E-004$$

$$R = 0.9994$$

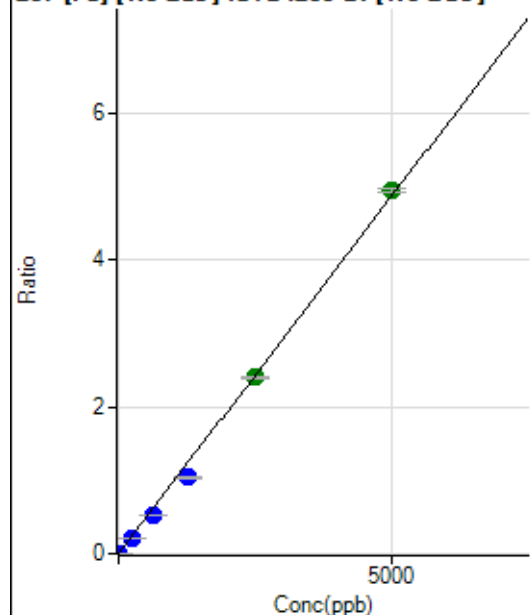
$$DL = 0.02666$$

$$BEC = 0.1191$$

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	392.61	0.0001	P	5.9
2	☐	1.000	0.796	3465.33	0.0009	P	3.0
3	☐	250.000	213.661	820103.82	0.2080	P	1.4
4	☐	625.000	536.227	2061141.53	0.5220	P	0.4
5	☐	1250.000	1063.054	4090889.01	1.0347	P	0.7
6	☐	2500.000	2464.094	9468643.26	2.3983	A	1.0
7	☐	5000.000	5077.603	19145239.55	4.9418	A	1.0
8	☐			20983.49	0.0059	P	6.9

$$y = 9.7324E-004 * x + 1.0054E-004$$

$$R = 0.9992$$

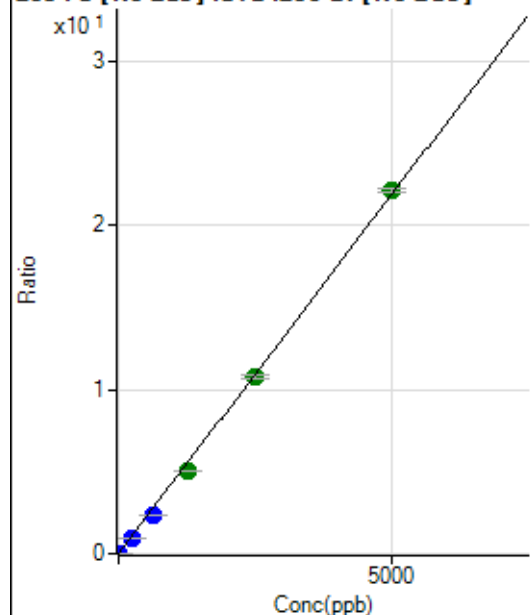
$$DL = 0.01833$$

$$BEC = 0.1033$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1940.83	0.0005	P	7.7
2	☐	1.000	0.794	15718.68	0.0040	P	0.4
3	☐	250.000	214.081	3692851.00	0.9368	P	1.0
4	☐	625.000	538.067	9293987.61	2.3537	P	0.5
5	☐	1250.000	1156.476	19998677.27	5.0582	A	0.9
6	☐	2500.000	2464.388	42554049.44	10.7783	A	1.1
7	☐	5000.000	5053.850	85630131.31	22.1031	A	1.0
8	☐			93196.59	0.0261	P	6.5

$$y = 0.0044 * x + 4.9748E-004$$

$$R = 0.9997$$

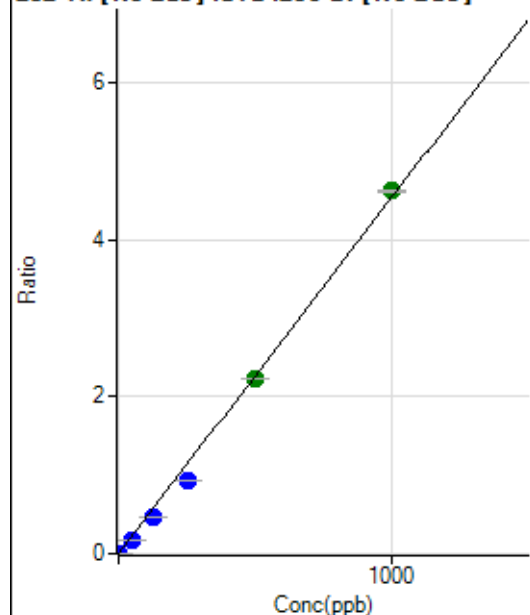
$$DL = 0.02617$$

$$BEC = 0.1138$$

Weight: <None>

Min Conc: 0

232 Th [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	311.12	0.0001	P	5.4
2	☐	1.000	-0.003	253.71	0.0001	P	14.4
3	☐	50.000	39.976	714887.59	0.1814	P	1.3
4	☐	125.000	102.128	1828973.68	0.4632	P	0.7
5	☐	250.000	203.785	3653816.32	0.9242	P	0.2
6	☐	500.000	491.195	8794492.96	2.2274	A	0.6
7	☐	1000.000	1019.318	17907230.61	4.6222	A	0.2
8	☐			4915.94	0.0014	P	25.3

$$y = 0.0045 * x + 7.9436E-005$$

$$R = 0.9988$$

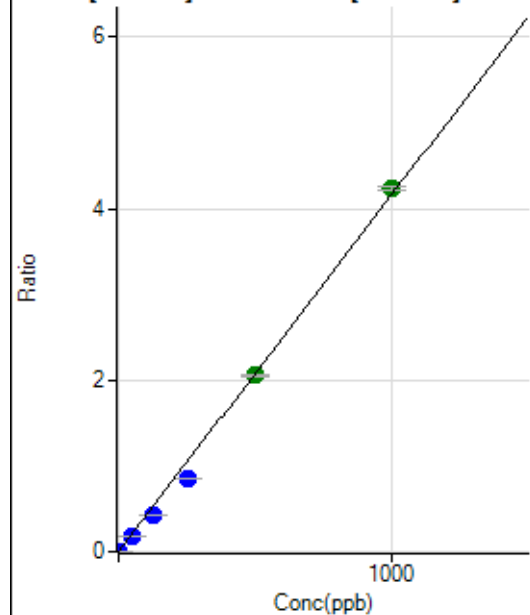
$$DL = 0.002817$$

$$BEC = 0.01752$$

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	22.22	0.0000	P	61.3
2	☐	1.000	0.760	12531.47	0.0032	P	4.0
3	☐	50.000	40.894	670656.80	0.1701	P	1.3
4	☐	125.000	103.833	1705667.55	0.4320	P	0.9
5	☐	250.000	206.621	3398567.55	0.8596	P	0.7
6	☐	500.000	493.454	8105074.48	2.0528	A	0.6
7	☐	1000.000	1017.219	16394300.02	4.2318	A	1.0
8	☐			3756.30	0.0011	P	26.0

$$y = 0.0042 * x + 5.8246E-006$$

$$R = 0.9989$$

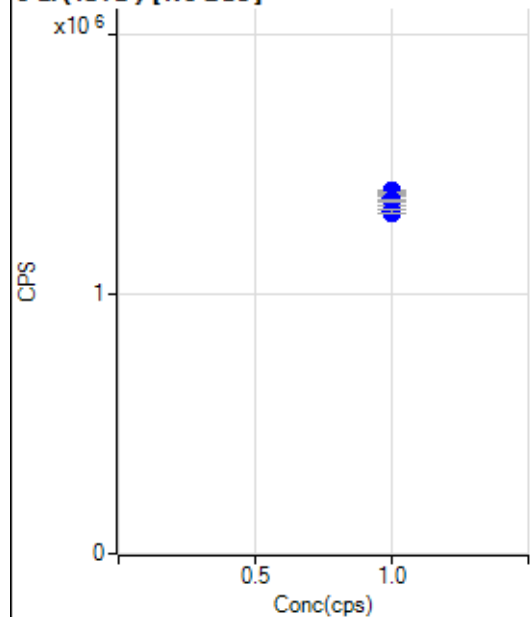
$$DL = 0.002573$$

$$BEC = 0.0014$$

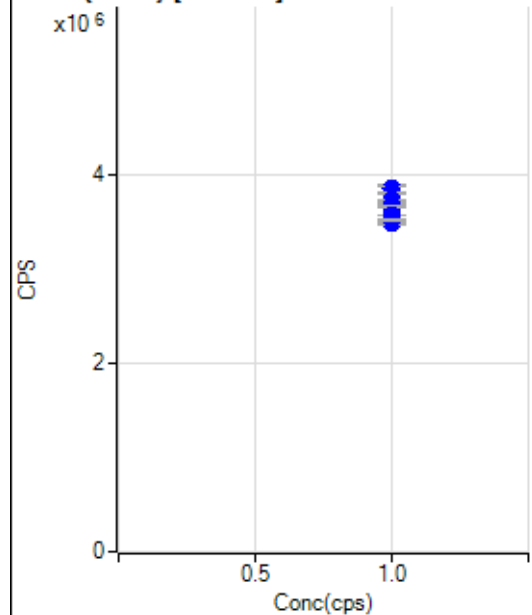
Weight: <None>

Min Conc: 0

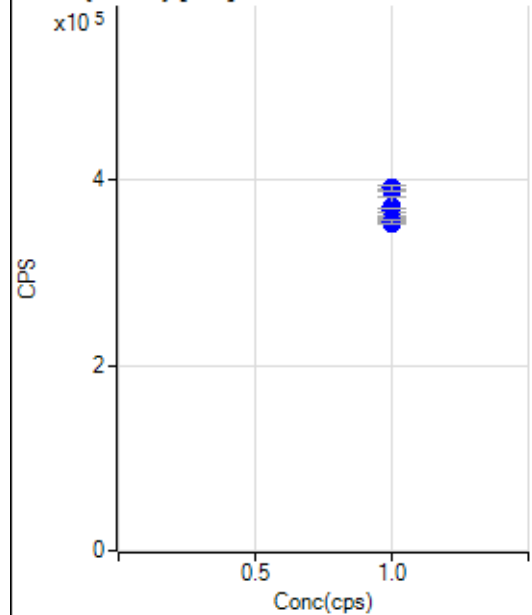
6 Li (ISTD) [No Gas]



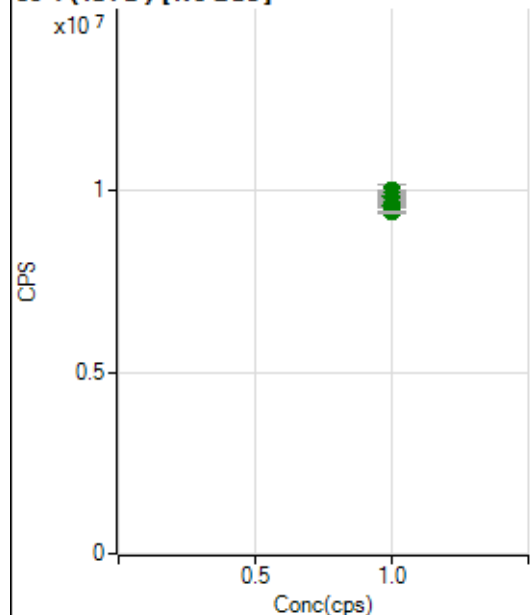
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1371072.48		P	4.0
2	☐	1.000		1388415.10		P	0.9
3	☐	1.000		1391226.82		P	1.2
4	☐	1.000		1398531.78		P	0.3
5	☐	1.000		1388214.63		P	0.4
6	☐	1.000		1362766.34		P	0.7
7	☐	1.000		1313912.96		P	0.0
8	☐	1.000		1319525.20		P	0.8

45 Sc (ISTD) [No Gas]

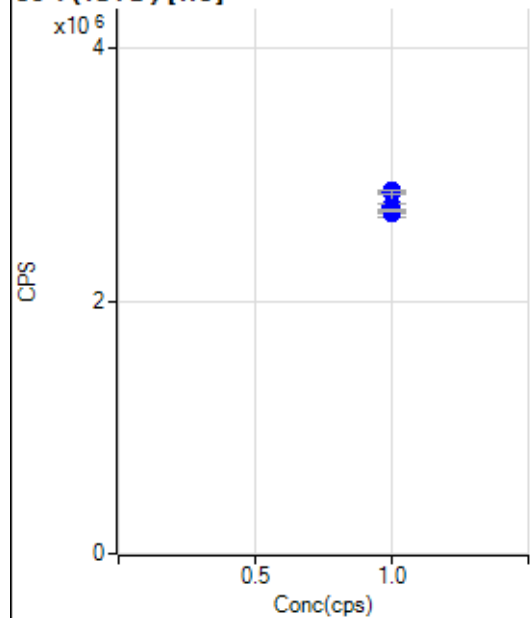
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3790963.83		P	5.1
2	☐	1.000		3842819.39		P	1.5
3	☐	1.000		3803655.71		P	0.8
4	☐	1.000		3720576.68		P	0.6
5	☐	1.000		3658216.51		P	0.6
6	☐	1.000		3557166.02		P	0.1
7	☐	1.000		3478103.21		P	0.6
8	☐	1.000		3521067.83		P	0.5

45 Sc (ISTD) [He]

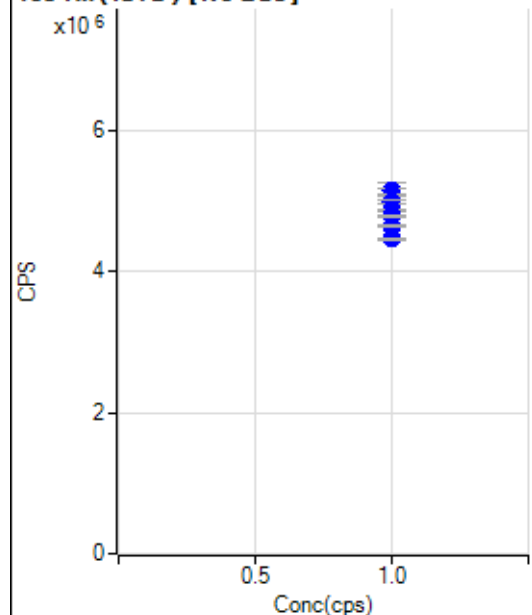
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		388507.67		P	0.4
2	☐	1.000		391697.58		P	1.3
3	☐	1.000		370709.70		P	6.3
4	☐	1.000		367485.57		P	1.2
5	☐	1.000		360077.62		P	0.3
6	☐	1.000		352757.66		P	0.4
7	☐	1.000		354045.08		P	0.7
8	☐	1.000		355484.50		P	0.9

89 Y (ISTD) [No Gas]

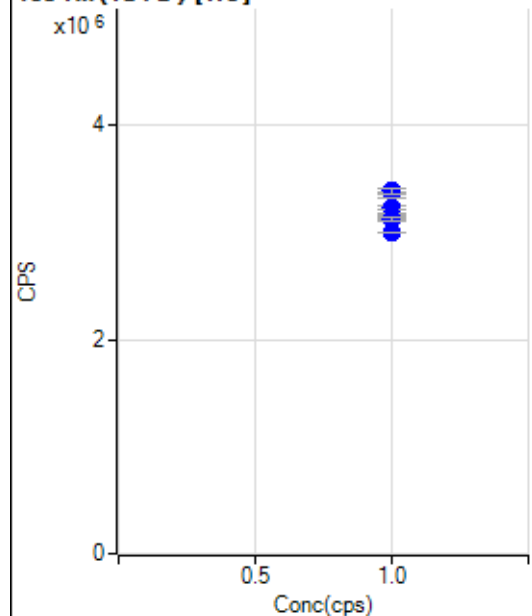
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9882304.85		A	6.3
2	☐	1.000		9994544.16		A	0.8
3	☐	1.000		9925858.32		A	1.3
4	☐	1.000		9834523.60		A	1.2
5	☐	1.000		9725006.80		A	0.6
6	☐	1.000		9576642.36		A	0.8
7	☐	1.000		9545059.93		A	0.2
8	☐	1.000		9403803.06		A	0.9

89 Y (ISTD) [He]

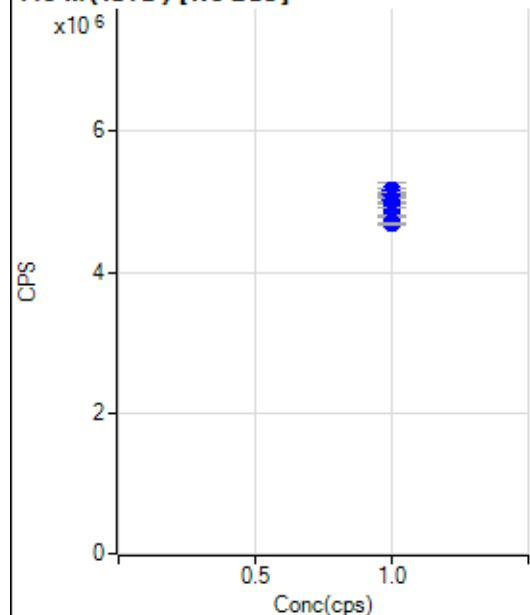
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2871913.32		P	0.6
2	☐	1.000		2867332.56		P	1.0
3	☐	1.000		2752895.64		P	6.6
4	☐	1.000		2747093.95		P	1.7
5	☐	1.000		2721629.61		P	0.4
6	☐	1.000		2704540.08		P	0.3
7	☐	1.000		2700537.96		P	0.8
8	☐	1.000		2716762.34		P	0.6

103 Rh (ISTD) [No Gas]

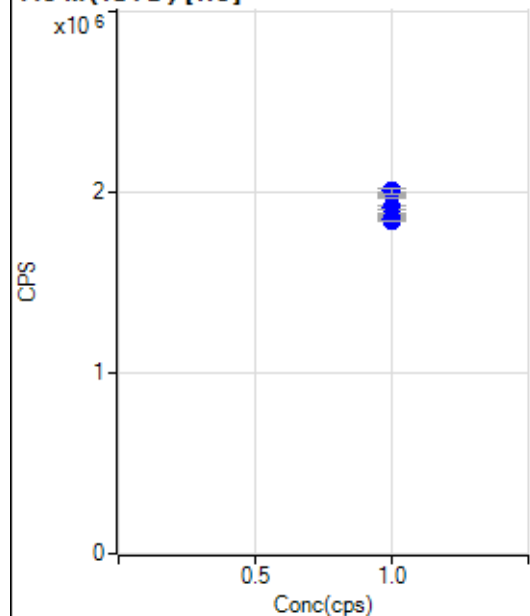
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5096431.00		P	6.1
2	☐	1.000		5135606.52		P	1.3
3	☐	1.000		5077277.56		P	0.8
4	☐	1.000		4974019.96		P	1.0
5	☐	1.000		4859825.73		P	0.5
6	☐	1.000		4779799.37		P	0.3
7	☐	1.000		4633251.94		P	0.6
8	☐	1.000		4450740.07		P	0.7

103 Rh (ISTD) [He]

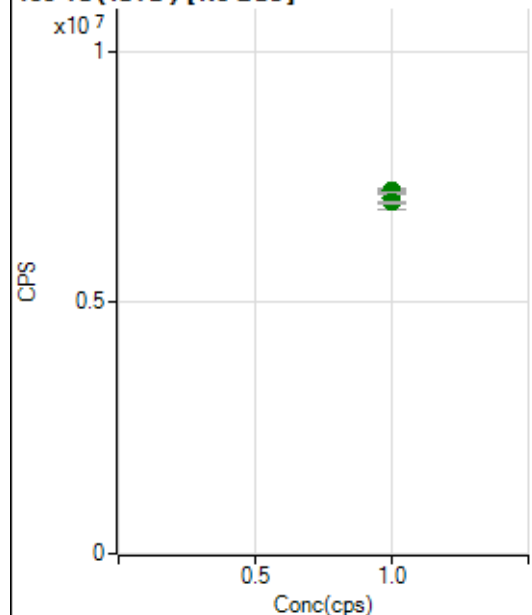
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3373647.35		P	0.6
2	☐	1.000		3388991.44		P	1.2
3	☐	1.000		3225867.07		P	6.0
4	☐	1.000		3233666.55		P	1.5
5	☐	1.000		3220516.51		P	0.1
6	☐	1.000		3169181.24		P	0.5
7	☐	1.000		3124605.61		P	0.8
8	☐	1.000		2997243.78		P	0.4

115 In (ISTD) [No Gas]

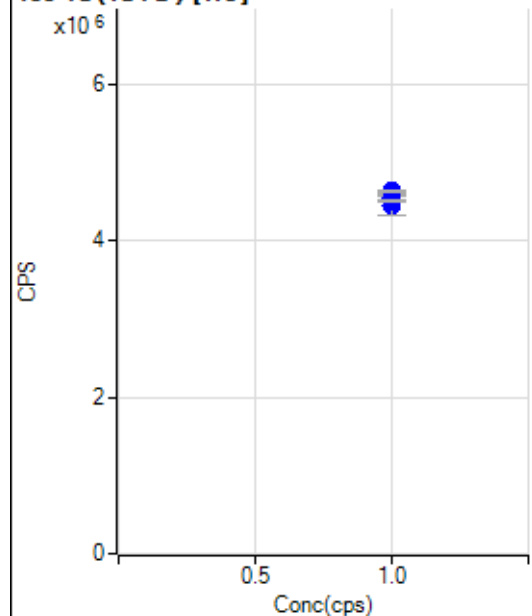
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5130198.56		P	6.1
2	☐	1.000		5154644.19		P	1.5
3	☐	1.000		5121296.27		P	1.1
4	☐	1.000		5034679.55		P	1.0
5	☐	1.000		4976987.11		P	0.3
6	☐	1.000		4919004.57		P	0.2
7	☐	1.000		4804208.89		P	0.4
8	☐	1.000		4687373.89		P	0.3

115 In (ISTD) [He]

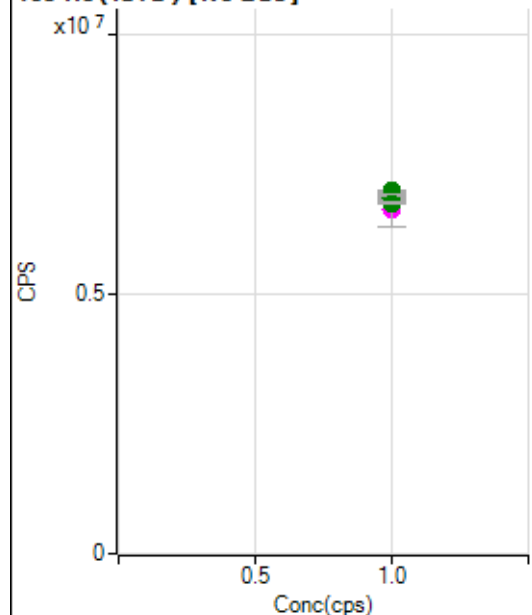
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1995677.36		P	1.0
2	☐	1.000		2009864.62		P	1.3
3	☐	1.000		1908944.63		P	6.1
4	☐	1.000		1918360.79		P	1.5
5	☐	1.000		1907999.58		P	0.2
6	☐	1.000		1879134.21		P	0.4
7	☐	1.000		1854967.00		P	0.8
8	☐	1.000		1843790.81		P	0.1

159 Tb (ISTD) [No Gas]

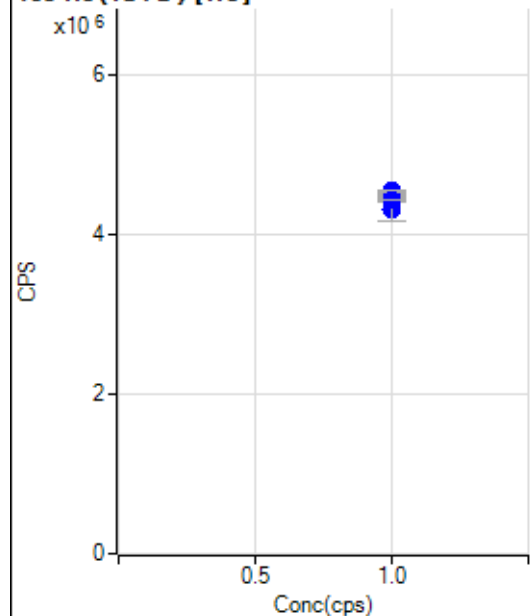
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7063497.88		A	5.6
2	☐	1.000		7219607.18		A	1.0
3	☐	1.000		7167796.49		A	0.8
4	☐	1.000		7175378.51		A	0.3
5	☐	1.000		7181360.73		A	1.0
6	☐	1.000		7215630.66		A	1.1
7	☐	1.000		7178311.77		A	0.5
8	☐	1.000		6983968.85		A	0.8

159 Tb (ISTD) [He]

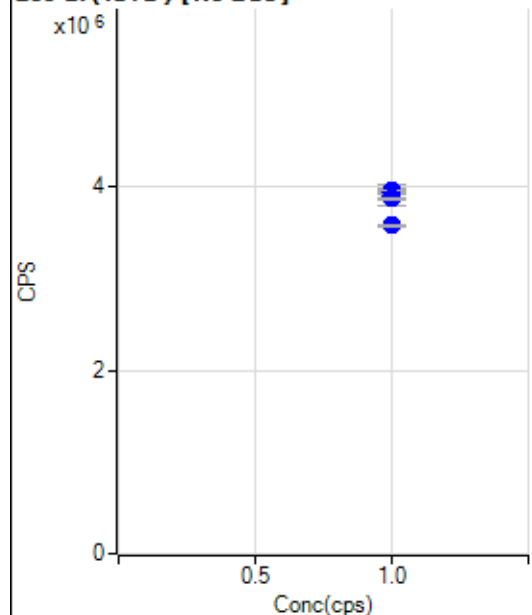
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4577769.38		P	0.1
2	☐	1.000		4604441.98		P	0.6
3	☐	1.000		4446172.12		P	5.8
4	☐	1.000		4545392.88		P	1.2
5	☐	1.000		4604460.90		P	0.3
6	☐	1.000		4603454.69		P	0.5
7	☐	1.000		4639214.20		P	0.5
8	☐	1.000		4509983.99		P	0.8

165 Ho (ISTD) [No Gas]

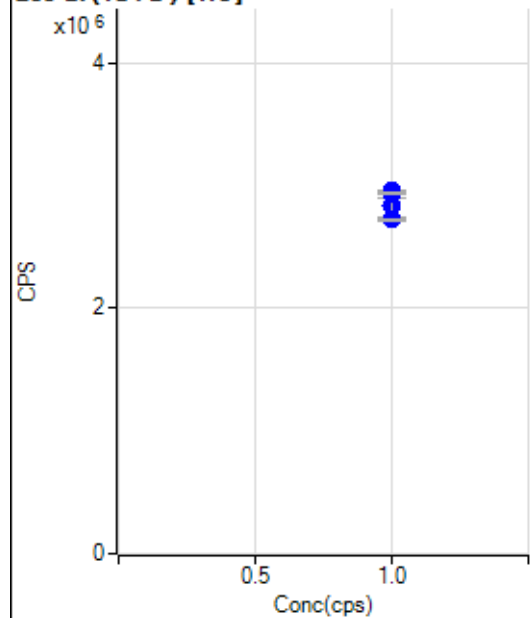
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6629282.82		M	9.2
2	☐	1.000		6815535.31		A	0.8
3	☐	1.000		6872766.22		A	1.7
4	☐	1.000		6850447.40		A	1.3
5	☐	1.000		6918382.81		A	0.4
6	☐	1.000		6996718.72		A	0.3
7	☐	1.000		6928250.73		A	0.6
8	☐	1.000		6764781.15		A	0.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4448849.62		P	0.6
2	☐	1.000		4492089.90		P	0.8
3	☐	1.000		4309574.48		P	6.4
4	☐	1.000		4435371.12		P	1.4
5	☐	1.000		4474290.59		P	0.3
6	☐	1.000		4496828.51		P	0.5
7	☐	1.000		4550100.73		P	0.5
8	☐	1.000		4433224.45		P	0.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3913709.67		P	6.2
2	☐	1.000		3959261.40		P	1.1
3	☐	1.000		3942407.68		P	1.2
4	☐	1.000		3948761.23		P	0.6
5	☐	1.000		3953724.28		P	0.3
6	☐	1.000		3948355.81		P	0.8
7	☐	1.000		3874172.48		P	0.3
8	☐	1.000		3578513.07		P	0.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2926795.13		P	0.3
2	☐	1.000		2956583.57		P	0.5
3	☐	1.000		2840107.91		P	6.4
4	☐	1.000		2927567.49		P	1.4
5	☐	1.000		2947054.61		P	0.3
6	☐	1.000		2945625.55		P	0.5
7	☐	1.000		2936691.38		P	0.4
8	☐	1.000		2722362.91		P	0.5

US EPA Tune Check Sample Report

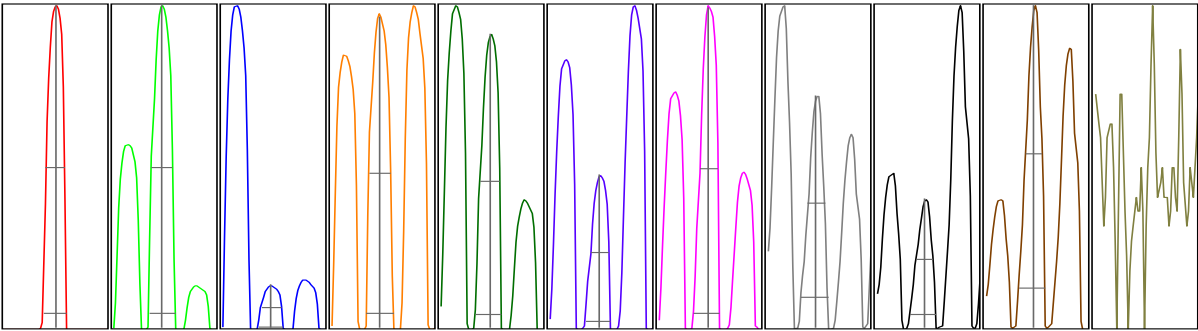
Batch Folder C:\Agilent\ICPMH\1\DATA\P7010621IMS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	3606	2.01	5.00	
24	49148	1.23	5.00	
25	6528	1.56	5.00	
26	7636	1.16	5.00	
59	9677	1.47	5.00	
113	5199	1.47	5.00	
115	14846	1.99	5.00	
206	5971	1.97	5.00	
207	5216	2.39	5.00	
208	12509	2.08	5.00	
220	1	28.92		

	Replicate 1	Replicate 2	Replicate 3	Replicate 4	Replicate 5
Mass	Count	Count	Count	Count	Count
9	3565	3554	3693	3677	3542
24	48549	48778	49738	49865	48808
25	6435	6454	6650	6625	6475
26	7532	7615	7713	7741	7580
59	9523	9587	9785	9864	9624
113	5112	5149	5253	5300	5183
115	14623	14979	15235	14901	14491
206	5817	5881	6054	6097	6005
207	5066	5113	5278	5369	5256
208	12156	12380	12708	12807	12494
220	0	1	0	1	1

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	6654	9.05	8.9 - 9.1		0.690	0.900	
24	84351	23.95	23.9 - 24.1		0.780	0.900	
25	11278	24.95	24.9 - 25.1		0.739	0.900	
26	12882	25.95	25.9 - 26.1		0.780	0.900	
59	17188	59.00	58.9 - 59.1		0.757	0.900	
113	9607	113.00	112.9 - 113.1		0.735	0.900	
115	27346	115.00	114.9 - 115.1		0.750	0.900	
206	11804	205.95	205.9 - 206.1		0.770	0.900	
207	9851	206.95	206.9 - 207.1		0.750	0.900	
208	24549	207.95	207.9 - 208.1		0.758	0.900	
220			-				

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 256.8 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.62	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.40 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	11.3	V	Deflect	14.2	V
Extract 2	-185.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-85	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination		5.0 V
He Flow	0.0	mL/min	OctP RF	200	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	3858	4.79	
89	206732	4.57	
205	5651	4.65	

	Replicate 1	Replicate 2	Replicate 3	Replicate 4	Replicate 5
Mass	Count	Count	Count	Count	Count
59	3937	4027	3695	3626	4004
89	209512	215902	197243	196218	214783
205	5650	5804	5323	5486	5993

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.62	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.40 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	11.3	V	Deflect	1.8	V
Extract 2	-180.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-95	V	Cell Exit	-60	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	Yes		OctP Bias	-18.0	V	Energy Discrimination		5.0 V
He Flow	3.9	mL/min	OctP RF	200	V			