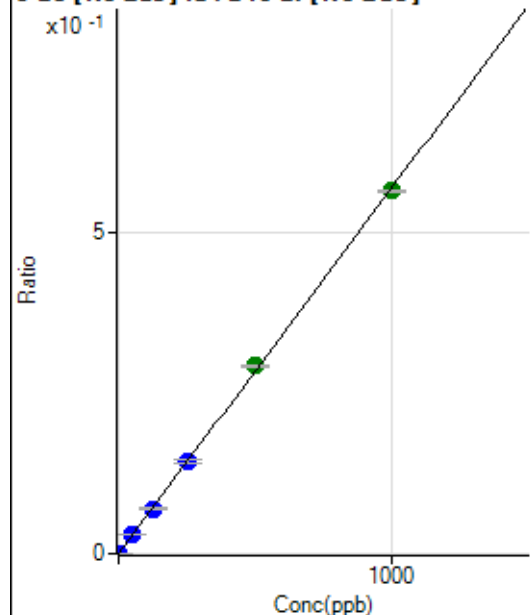


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8051122MS.b\
Analysis File: P8051122MS.batch.bin
DA Date-Time: 2022-07-25 23:32:56
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	002CALB.d	S00	2022-05-11 15:16:36
2	006CALS.d	S02	2022-05-11 15:28:55
3	007CALS.d	S03	2022-05-11 15:31:58
4	008CALS.d	S04	2022-05-11 15:35:04
5	009CALS.d	S05	2022-05-11 15:38:08
6	010CALS.d	S06	2022-05-11 15:41:13
7	011CALS.d	S07	2022-05-11 15:44:17
8	012CALS.d	S08	2022-05-11 15:47:22

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	55.99	0.0000	P	24.5
2	☐	1.000	1.040	2529.73	0.0006	P	2.7
3	☐	50.000	53.352	127190.50	0.0304	P	1.9
4	☐	125.000	123.250	307309.91	0.0703	P	5.1
5	☐	250.000	250.896	629192.12	0.1431	P	3.8
6	☐	500.000	513.746	1310794.47	0.2930	A	1.6
7	☐	1000.000	992.954	2535700.65	0.5662	A	0.8
8	☐			314.61	0.0001	P	22.9

$$y = 5.7023\text{E-}004 * x + 1.4031\text{E-}005$$

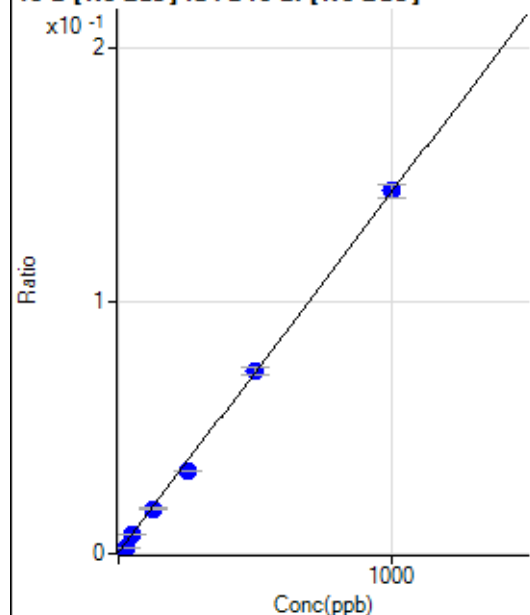
$$R = 0.9999$$

$$DL = 0.01811$$

$$BEC = 0.02461$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2470.40	0.0006	P	1.2
2	☐	25.000	12.162	9794.72	0.0023	P	5.0
3	☐	50.000	48.627	31495.78	0.0075	P	4.6
4	☐	125.000	120.771	77887.52	0.0178	P	4.7
5	☐	250.000	225.394	143849.00	0.0327	P	2.0
6	☐	500.000	505.373	324444.46	0.0725	P	3.9
7	☐	1000.000	1004.383	642648.32	0.1435	P	3.8
8	☐			48332.04	0.0116	P	6.6

$$y = 1.4227\text{E-}004 * x + 6.1954\text{E-}004$$

$$R = 0.9996$$

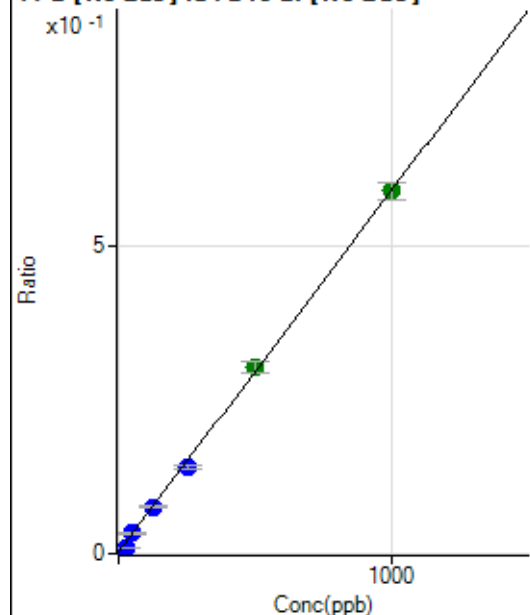
$$DL = 0.1529$$

$$BEC = 4.355$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	10772.53	0.0027	P	1.8
2	☐	25.000	12.863	42708.62	0.0102	P	4.3
3	☐	50.000	51.936	138592.56	0.0332	P	5.9
4	☐	125.000	125.527	333997.33	0.0763	P	3.9
5	☐	250.000	233.234	613982.40	0.1395	P	4.2
6	☐	500.000	509.766	1349662.71	0.3018	A	6.0
7	☐	1000.000	999.449	2637419.49	0.5890	A	4.9
8	☐			206284.24	0.0493	P	8.1

$$y = 5.8665E-004 * x + 0.0027$$

$$R = 0.9997$$

$$DL = 0.2483$$

$$BEC = 4.605$$

Weight: <None>

Min Conc: 0

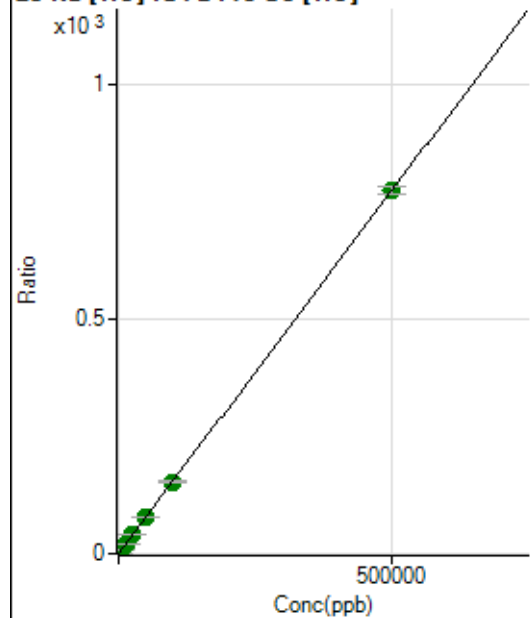
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4460776.05		A	1.2
2	☐			4619551.75		A	0.2
3	☐			5096280.11		A	1.1
4	☐			4907046.90		A	1.1
5	☐			5486481.42		A	2.7
6	☐			5682156.94		A	1.2
7	☐			7007258.06		A	2.8
8	☐			5406356.02		A	0.4

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			46382.60		P	1.8
2	☐			47789.64		P	2.8
3	☐			55006.64		P	2.5
4	☐			52759.72		P	2.3
5	☐			63228.51		P	1.4
6	☐			64542.66		P	1.3
7	☐			83389.81		P	0.4
8	☐			65909.91		P	1.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	12555.71	0.0637	P	1.1
2	☐	500.000	460.320	156021.14	0.7768	P	1.1
3	☐	5000.000	5137.750	1624525.52	8.0228	A	2.2
4	☐	12500.000	12352.270	3798631.33	19.1990	A	1.0
5	☐	25000.000	26473.354	8171035.08	41.0744	A	2.6
6	☐	50000.000	50001.625	15613088.20	77.5228	A	1.2
7	☐	100000.00	99122.815	32029550.37	153.6180	A	1.9
8	☐	500000.00	500103.96	155632079.8	774.7906	A	2.3

$$y = 0.0015 * x + 0.0637$$

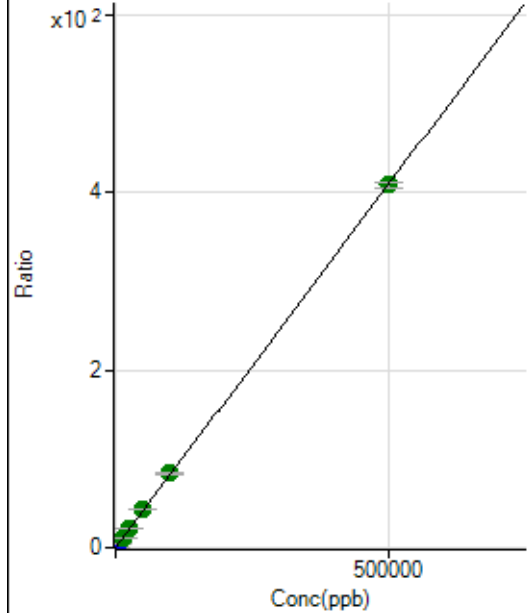
$$R = 1.0000$$

$$DL = 1.39$$

$$BEC = 41.14$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	244.45	0.0012	P	18.9
2	☐	500.000	482.724	79638.67	0.3965	P	4.4
3	☐	5000.000	5113.445	847953.53	4.1879	P	1.7
4	☐	12500.000	13375.422	2166672.97	10.9525	A	1.6
5	☐	25000.000	27347.177	4454328.22	22.3919	A	1.5
6	☐	50000.000	52224.918	8611478.66	42.7608	A	0.2
7	☐	100000.00	102304.63	17464064.11	83.7639	A	1.8
8	☐	500000.00	499176.21	82097124.06	408.7052	A	1.9

$$y = 8.1876E-004 * x + 0.0012$$

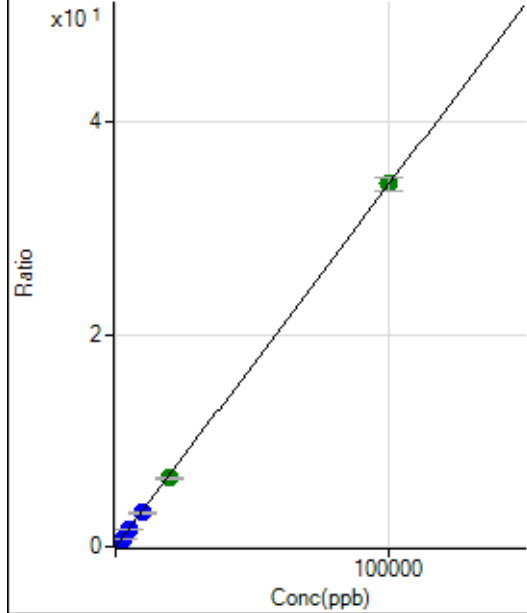
$$R = 1.0000$$

$$DL = 0.8581$$

$$BEC = 1.516$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	99.57	0.0005	P	4.7
2	☐	20.000	16.679	1242.40	0.0062	P	5.2
3	☐	1000.000	933.144	64472.55	0.3185	P	0.9
4	☐	2500.000	2282.655	153990.30	0.7784	P	1.0
5	☐	5000.000	4752.351	322269.64	1.6199	P	0.3
6	☐	10000.000	9329.216	640295.28	3.1796	P	1.2
7	☐	20000.000	18929.596	1344994.05	6.4510	A	1.4
8	☐	100000.00	100299.64	6865447.09	34.1791	A	3.4

$$y = 3.4076E-004 * x + 5.0561E-004$$

$$R = 0.9999$$

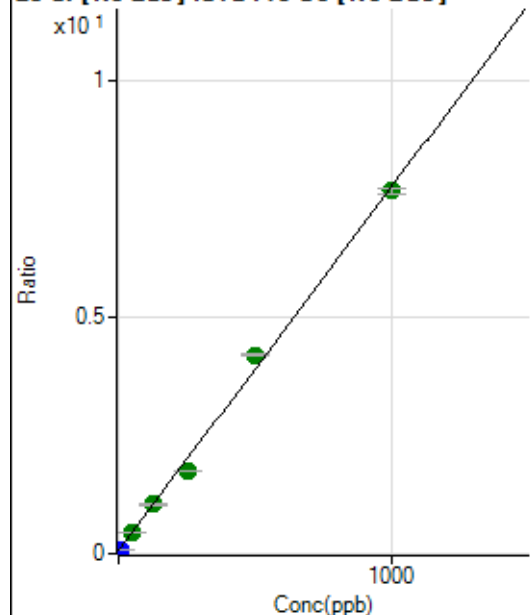
$$DL = 0.2079$$

$$BEC = 1.484$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	400726.52	0.0632	P	1.0
2	☐	10.000	1.116	471056.35	0.0718	P	3.2
3	☐	50.000	51.116	3077071.49	0.4568	A	0.8
4	☐	125.000	127.614	7058119.69	1.0460	A	5.3
5	☐	250.000	218.355	11328492.35	1.7448	A	0.8
6	☐	500.000	537.156	27700350.97	4.2000	A	1.1
7	☐	1000.000	989.040	52057650.82	7.6800	A	1.5
8	☐			954691.71	0.1467	A	2.5

$$y = 0.0077 * x + 0.0632$$

$$R = 0.9984$$

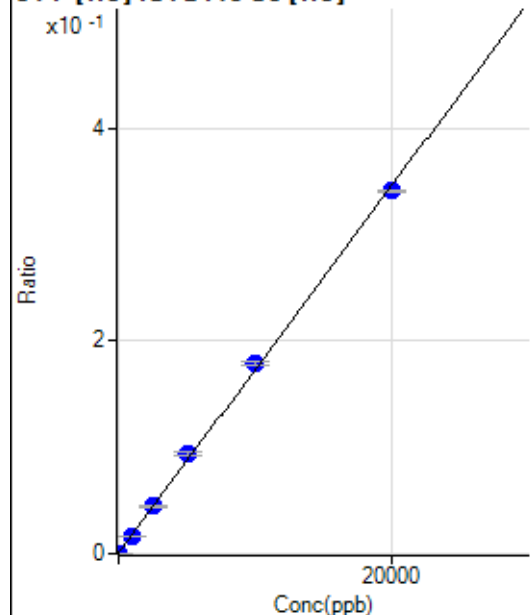
$$DL = 0.2544$$

$$BEC = 8.206$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-10.909	86.11	0.0004	P	32.9
2	☐	0.000	10.909	163.89	0.0008	P	11.1
3	☐	1000.000	943.500	3419.94	0.0169	P	3.1
4	☐	2500.000	2532.164	8761.21	0.0443	P	3.2
5	☐	5000.000	5431.996	18759.90	0.0943	P	2.7
6	☐	10000.000	10322.470	35973.40	0.1786	P	1.5
7	☐	20000.000	19729.570	71077.82	0.3409	P	0.5
8	☐			113.89	0.0006	P	32.9

$$y = 1.7246E-005 * x + 6.2678E-004$$

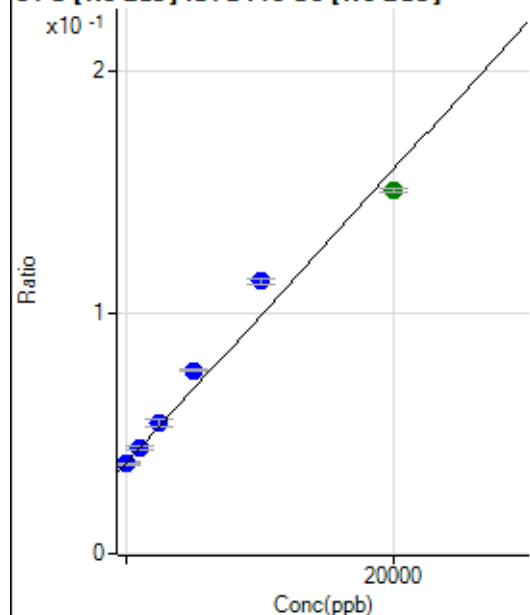
$$R = 0.9995$$

$$DL = 20.46$$

$$BEC = 36.34$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	24.073	238908.73	0.0377	P	2.0
2	☐	0.000	-24.073	245339.79	0.0374	P	2.2
3	☐	1000.000	1045.728	295653.75	0.0439	P	3.2
4	☐	2500.000	2699.884	364327.37	0.0540	P	6.4
5	☐	5000.000	6293.147	493127.86	0.0760	P	0.7
6	☐	10000.000	12330.155	743880.29	0.1128	P	2.2
7	☐	20000.000	18484.364	1019316.30	0.1504	A	1.1
8	☐			201187.83	0.0309	P	4.2

$$y = 6.1047\text{E-}006 * x + 0.0375$$

R = 0.9865

DL = 386.9

BEC = 6148

Weight: <None>

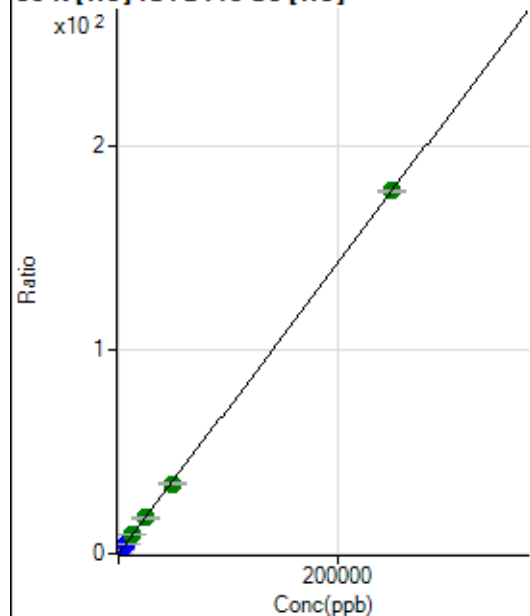
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			223180.15		P	0.2
2	☐			176064.00		P	3.0
3	☐			175334.86		P	0.9
4	☐			165118.29		P	0.5
5	☐			165485.68		P	0.2
6	☐			158019.86		P	0.7
7	☐			156127.85		P	0.3
8	☐			151414.90		P	1.3

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1855.72		P	0.5
2	☐			1377.88		P	0.3
3	☐			1408.44		P	8.0
4	☐			1372.32		P	5.8
5	☐			1464.00		P	9.7
6	☐			1411.23		P	8.6
7	☐			1308.43		P	5.7
8	☐			1272.31		P	7.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	17271.80	0.0877	P	0.7
2	☐	500.000	451.814	82002.66	0.4083	P	2.1
3	☐	2500.000	2422.471	365821.64	1.8069	P	2.9
4	☐	6250.000	5958.379	853755.40	4.3162	P	2.7
5	☐	12500.000	12954.892	1846631.42	9.2815	A	1.5
6	☐	25000.000	24759.485	3555748.77	17.6590	A	2.7
7	☐	50000.000	48138.809	7141420.82	34.2507	A	2.1
8	☐	250000.00	250381.70	35711356.36	177.7781	A	0.5

$$y = 7.0968E-004 * x + 0.0877$$

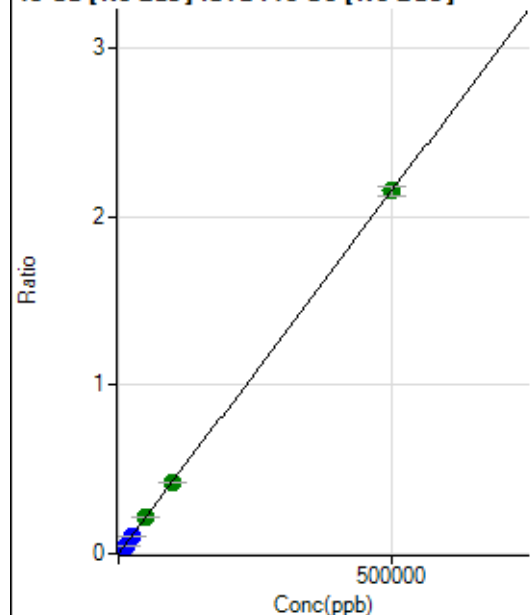
$$R = 1.0000$$

$$DL = 2.664$$

$$BEC = 123.6$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	209.14	0.0000	P	7.5
2	☐	500.000	459.999	13198.99	0.0020	P	0.8
3	☐	5000.000	4821.765	139812.93	0.0208	P	2.2
4	☐	12500.000	11496.995	333614.73	0.0495	P	6.6
5	☐	25000.000	24961.816	697022.88	0.1074	P	1.3
6	☐	50000.000	50886.644	1443002.55	0.2188	A	2.7
7	☐	100000.00	97935.261	2854418.57	0.4211	A	1.4
8	☐	500000.00	500353.09	14004432.18	2.1513	A	2.4

$$y = 4.2995\text{E-}006 * x + 3.2963\text{E-}005$$

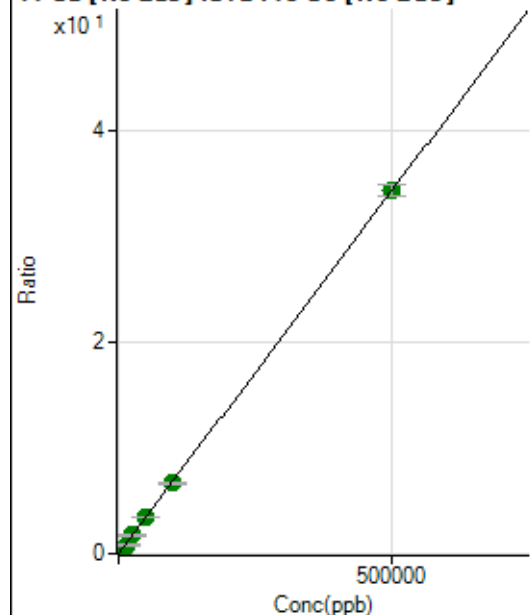
$$R = 1.0000$$

$$DL = 1.717$$

$$BEC = 7.667$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6350.63	0.0010	P	1.8
2	☐	500.000	458.880	213385.56	0.0325	P	1.7
3	☐	5000.000	4974.284	2308277.46	0.3426	A	1.5
4	☐	12500.000	11724.388	5438939.62	0.8061	A	5.6
5	☐	25000.000	25241.197	11260930.32	1.7344	A	1.7
6	☐	50000.000	50336.773	22802782.81	3.4577	A	1.8
7	☐	100000.00	97392.007	45342412.27	6.6891	A	1.5
8	☐	500000.00	500495.55	223720573.6	34.3710	A	3.2

$$y = 6.8672\text{E-}005 * x + 0.0010$$

$$R = 1.0000$$

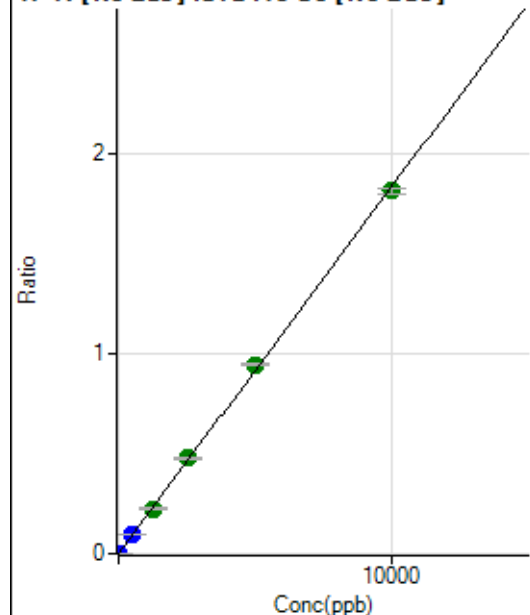
$$DL = 0.7752$$

$$BEC = 14.58$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	191.67	0.0000	P	20.0
2	☐	5.000	4.986	6195.95	0.0009	P	1.8
3	☐	500.000	508.423	627375.40	0.0932	P	2.1
4	☐	1250.000	1226.772	1516776.65	0.2248	A	6.0
5	☐	2500.000	2616.531	3112293.95	0.4794	A	1.8
6	☐	5000.000	5160.945	6235504.13	0.9455	A	1.6
7	☐	10000.000	9892.877	12286797.32	1.8124	A	1.3
8	☐			2458.62	0.0004	P	6.4

$$y = 1.8320E-004 * x + 3.0265E-005$$

$$R = 0.9997$$

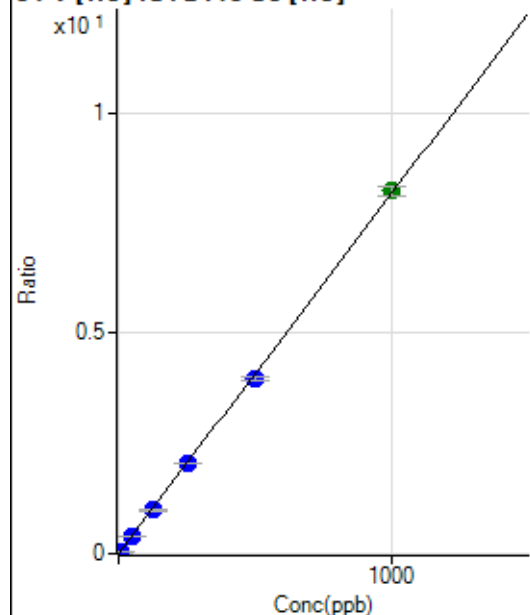
$$DL = 0.09931$$

$$BEC = 0.1652$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3.33	0.0000	P	2.3
2	☐	5.000	4.702	7713.26	0.0384	P	0.9
3	☐	50.000	49.110	81161.17	0.4009	P	1.3
4	☐	125.000	120.355	194348.86	0.9826	P	2.8
5	☐	250.000	249.605	405385.92	2.0378	P	0.6
6	☐	500.000	486.260	799470.54	3.9698	P	2.1
7	☐	1000.000	1007.595	1714927.87	8.2260	A	2.8
8	☐			332.23	0.0017	P	12.4

$$y = 0.0082 * x + 1.6909E-005$$

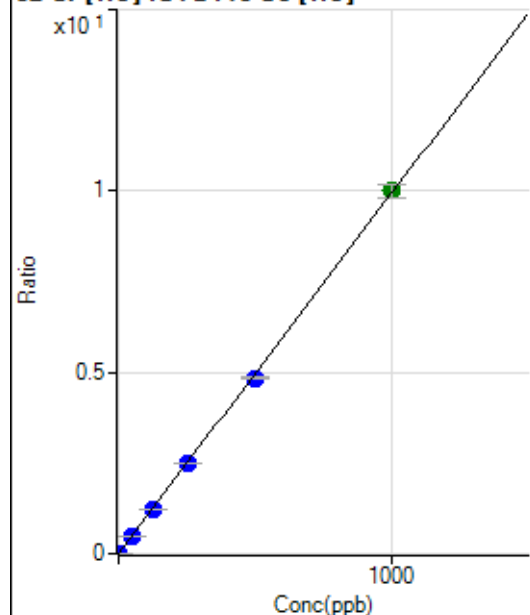
$$R = 0.9999$$

$$DL = 0.000142$$

$$BEC = 0.002071$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	888.93	0.0045	P	4.6
2	☐	2.000	1.883	4664.14	0.0232	P	1.2
3	☐	50.000	49.517	100503.11	0.4965	P	1.7
4	☐	125.000	121.610	239957.09	1.2128	P	2.0
5	☐	250.000	249.683	494479.52	2.4854	P	1.0
6	☐	500.000	487.410	976173.18	4.8475	P	0.7
7	☐	1000.000	1006.822	2086403.46	10.0084	A	3.4
8	☐			18730.17	0.0932	P	2.8

$$y = 0.0099 * x + 0.0045$$

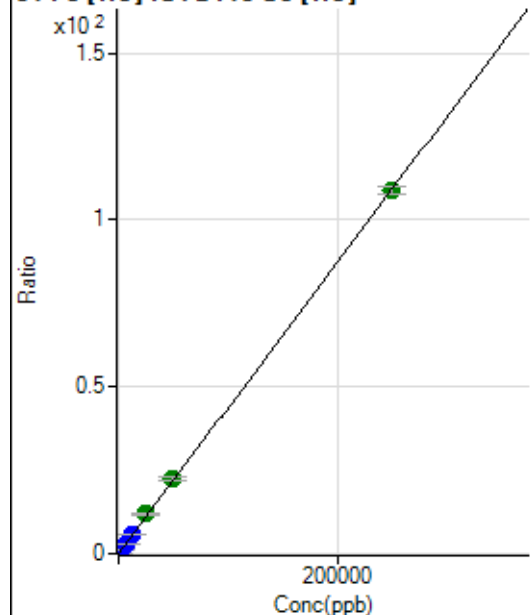
$$R = 0.9999$$

$$DL = 0.06217$$

$$BEC = 0.4544$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	514.84	0.0026	P	15.2
2	☐	50.000	49.625	4865.76	0.0242	P	5.4
3	☐	2500.000	2542.763	224802.42	1.1104	P	1.3
4	☐	6250.000	6141.265	529715.56	2.6782	P	3.2
5	☐	12500.000	13062.577	1132663.78	5.6937	P	1.6
6	☐	25000.000	27109.061	2379190.88	11.8135	A	1.9
7	☐	50000.000	51657.019	4692291.48	22.5085	A	3.5
8	☐	250000.00	249431.85	21829731.97	108.6751	A	2.1

$$y = 4.3568E-004 * x + 0.0026$$

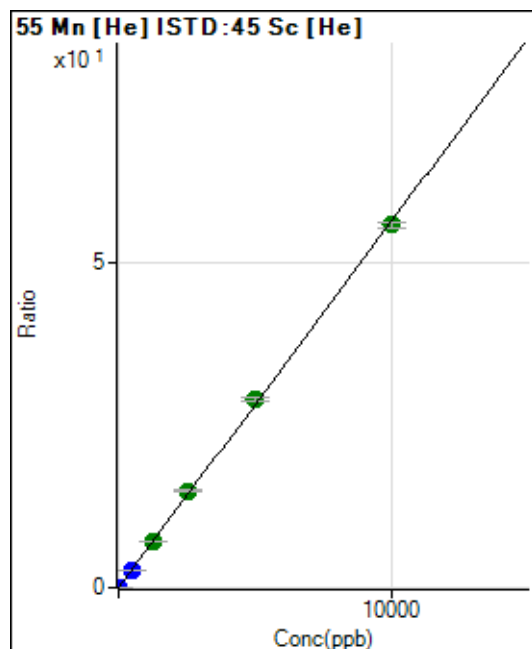
$$R = 0.9999$$

$$DL = 2.732$$

$$BEC = 5.992$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	91.11	0.0005	P	36.8
2	☐	1.000	0.923	1138.95	0.0057	P	2.4
3	☐	500.000	490.340	559961.72	2.7662	P	1.2
4	☐	1250.000	1266.974	1413706.96	7.1467	A	2.0
5	☐	2500.000	2644.559	2967454.57	14.9168	A	0.7
6	☐	5000.000	5122.861	5819615.05	28.8955	A	2.1
7	☐	10000.000	9900.791	11643532.74	55.8449	A	1.9
8	☐			5751.22	0.0286	P	4.9

$$y = 0.0056 * x + 4.6506E-004$$

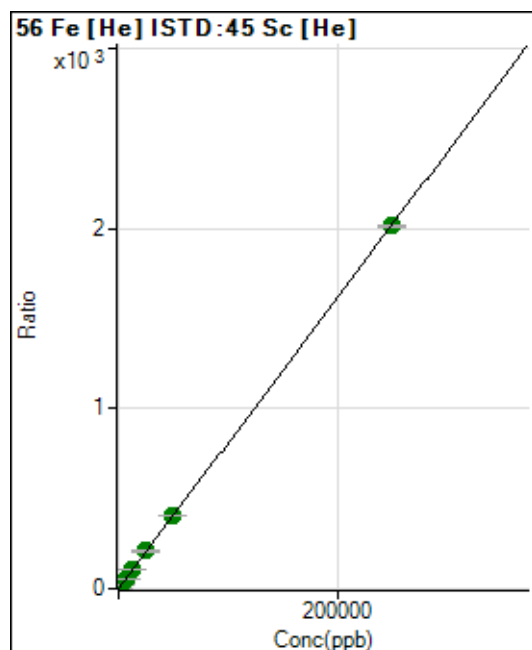
$$R = 0.9998$$

$$DL = 0.09098$$

$$BEC = 0.08245$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3665.34	0.0186	P	6.5
2	☐	50.000	47.820	81108.23	0.4038	P	1.1
3	☐	2500.000	2673.222	4363720.64	21.5537	A	0.9
4	☐	6250.000	6426.918	10245337.96	51.7930	A	2.0
5	☐	12500.000	13144.444	21069095.84	105.9085	A	0.8
6	☐	25000.000	25925.115	42064576.40	208.8679	A	2.1
7	☐	50000.000	50234.370	84381049.11	404.7000	A	0.5
8	☐	250000.00	249822.23	404270486.8	2,012.553	A	0.4

$$y = 0.0081 * x + 0.0186$$

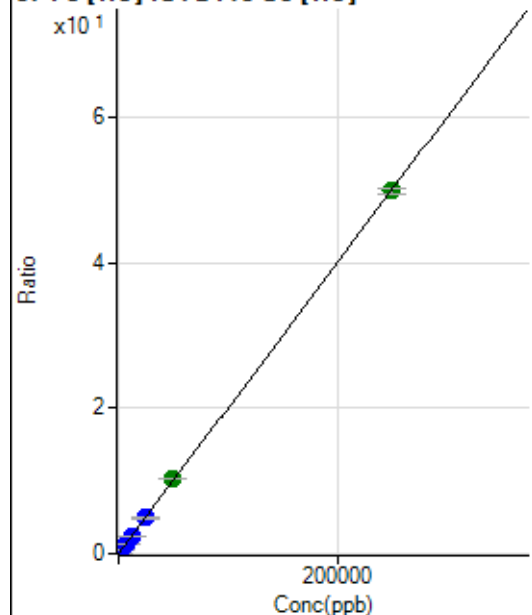
$$R = 1.0000$$

$$DL = 0.4516$$

$$BEC = 2.31$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	175.93	0.0009	P	28.2
2	☐	50.000	48.346	2116.86	0.0105	P	7.8
3	☐	2500.000	2457.097	99510.75	0.4915	P	0.9
4	☐	6250.000	6225.033	246058.00	1.2439	P	2.2
5	☐	12500.000	12539.057	498293.74	2.5047	P	0.0
6	☐	25000.000	24539.312	986939.63	4.9010	P	1.1
7	☐	50000.000	51847.088	2158688.17	10.3538	A	1.4
8	☐	250000.00	249675.75	10014775.69	49.8567	A	1.7

$$y = 1.9968\text{E-}004 * x + 8.9054\text{E-}004$$

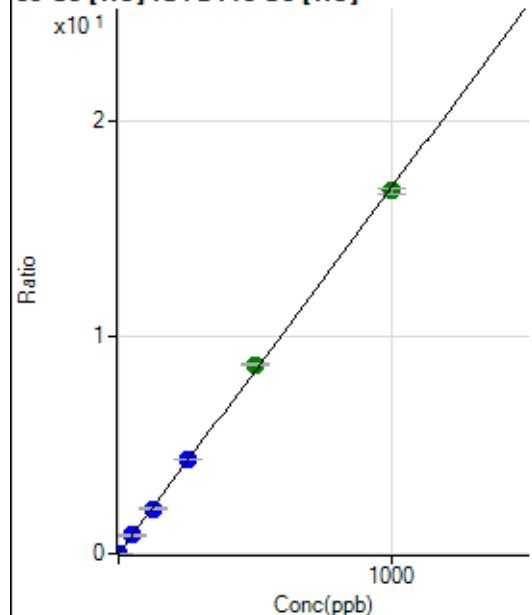
$$R = 1.0000$$

$$DL = 3.777$$

$$BEC = 4.46$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	71.11	0.0004	P	15.5
2	☐	1.000	0.942	3270.41	0.0163	P	3.6
3	☐	50.000	50.117	171501.13	0.8473	P	1.4
4	☐	125.000	122.436	409257.18	2.0693	P	3.6
5	☐	250.000	256.161	861226.45	4.3291	P	0.2
6	☐	500.000	515.696	1754905.44	8.7148	A	1.2
7	☐	1000.000	990.926	3491271.82	16.7454	A	1.4
8	☐			8789.44	0.0438	P	2.0

$$y = 0.0169 * x + 3.6179\text{E-}004$$

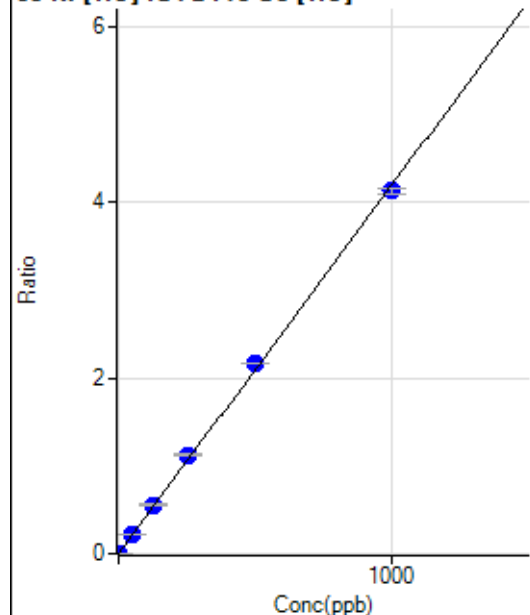
$$R = 0.9998$$

$$DL = 0.009955$$

$$BEC = 0.02141$$

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	38.89	0.0002	P	27.7
2	☐	1.000	1.079	946.71	0.0047	P	5.6
3	☐	50.000	53.593	45483.95	0.2247	P	1.7
4	☐	125.000	131.337	108862.43	0.5504	P	2.9
5	☐	250.000	268.593	223873.93	1.1254	P	0.9
6	☐	500.000	517.872	436937.59	2.1696	P	0.2
7	☐	1000.000	985.444	860732.10	4.1284	P	1.4
8	☐			7161.87	0.0357	P	2.4

$$y = 0.0042 * x + 1.9789E-004$$

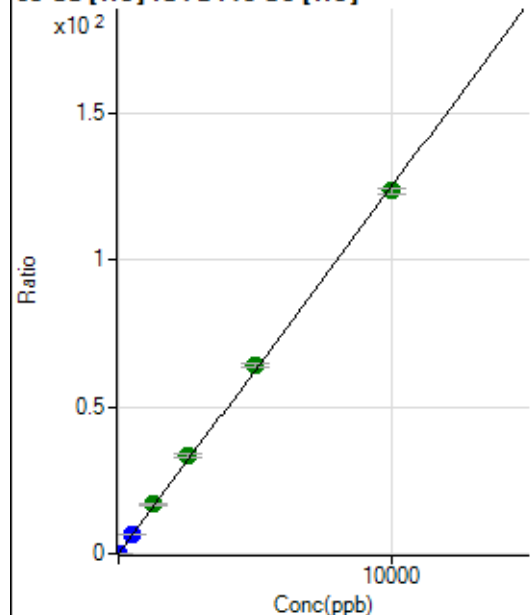
$$R = 0.9996$$

$$DL = 0.03931$$

$$BEC = 0.04724$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	566.69	0.0029	P	5.0
2	☐	2.000	2.025	5666.74	0.0282	P	0.3
3	☐	500.000	510.449	1293276.14	6.3885	P	0.6
4	☐	1250.000	1335.974	3306287.49	16.7157	A	2.8
5	☐	2500.000	2665.837	6634369.69	33.3522	A	2.4
6	☐	5000.000	5127.286	12917411.20	64.1446	A	1.8
7	☐	10000.000	9883.628	25779011.84	123.6459	A	1.5
8	☐			8111.28	0.0404	P	4.4

$$y = 0.0125 * x + 0.0029$$

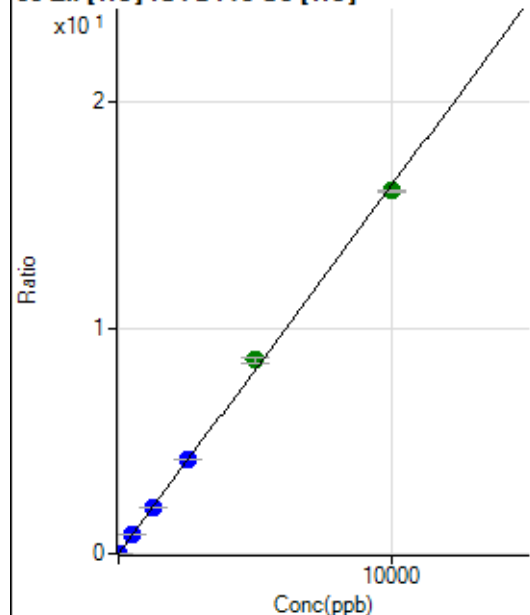
$$R = 0.9997$$

$$DL = 0.03475$$

$$BEC = 0.23$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	269.37	0.0014	P	10.5
2	☐	2.000	2.213	997.29	0.0050	P	11.4
3	☐	500.000	513.258	169604.56	0.8379	P	1.2
4	☐	1250.000	1249.895	403144.64	2.0384	P	3.6
5	☐	2500.000	2564.958	831863.52	4.1816	P	1.0
6	☐	5000.000	5251.628	1723749.70	8.5603	A	2.5
7	☐	10000.000	9857.297	3349932.67	16.0664	A	0.3
8	☐			5987.80	0.0298	P	1.4

$$y = 0.0016 * x + 0.0014$$

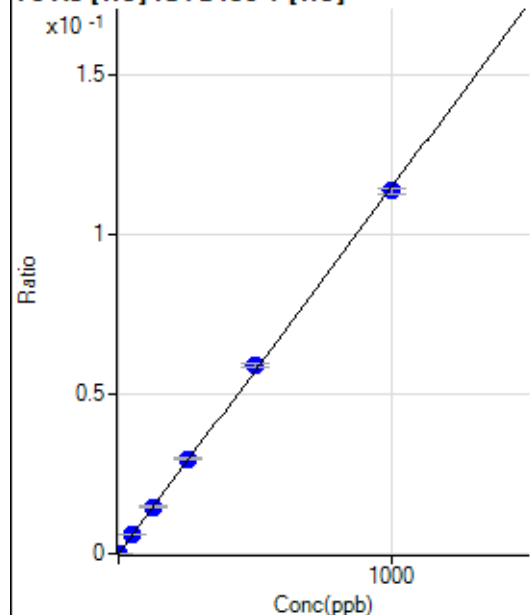
$$R = 0.9995$$

$$DL = 0.2641$$

$$BEC = 0.8377$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6.67	0.0000	P	62.3
2	☐	1.000	1.157	235.36	0.0001	P	5.1
3	☐	50.000	53.475	10597.71	0.0061	P	1.9
4	☐	125.000	127.904	24724.04	0.0147	P	1.8
5	☐	250.000	258.783	51004.23	0.0297	P	0.9
6	☐	500.000	513.829	101039.24	0.0590	P	2.5
7	☐	1000.000	990.353	200823.98	0.1136	P	1.9
8	☐			95.68	0.0001	P	5.4

$$y = 1.1474E-004 * x + 3.8113E-006$$

$$R = 0.9998$$

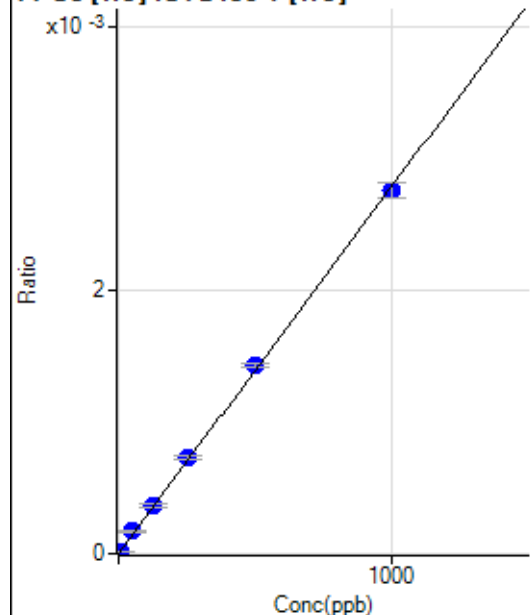
$$DL = 0.06205$$

$$BEC = 0.03322$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.787	27.78	0.0000	P	30.6
3	☐	50.000	61.247	294.45	0.0002	P	7.7
4	☐	125.000	132.331	621.13	0.0004	P	9.3
5	☐	250.000	262.639	1256.74	0.0007	P	4.9
6	☐	500.000	512.865	2450.24	0.0014	P	1.4
7	☐	1000.000	988.925	4869.78	0.0028	P	4.2
8	☐			2.22	0.0000	P	86.6

$$y = 2.7871\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

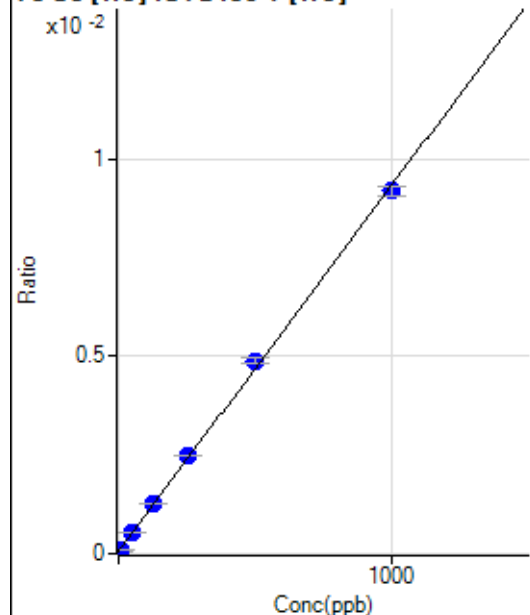
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	101.01	0.0001	P	5.5
2	☐	5.000	6.030	196.02	0.0001	P	6.0
3	☐	50.000	53.078	949.79	0.0006	P	3.1
4	☐	125.000	130.375	2134.38	0.0013	P	1.7
5	☐	250.000	262.119	4275.42	0.0025	P	0.5
6	☐	500.000	521.318	8387.02	0.0049	P	2.8
7	☐	1000.000	985.480	16256.66	0.0092	P	2.4
8	☐			109.68	0.0001	P	4.1

$$y = 9.2767\text{E-}006 * x + 5.7798\text{E-}005$$

$$R = 0.9996$$

$$DL = 1.034$$

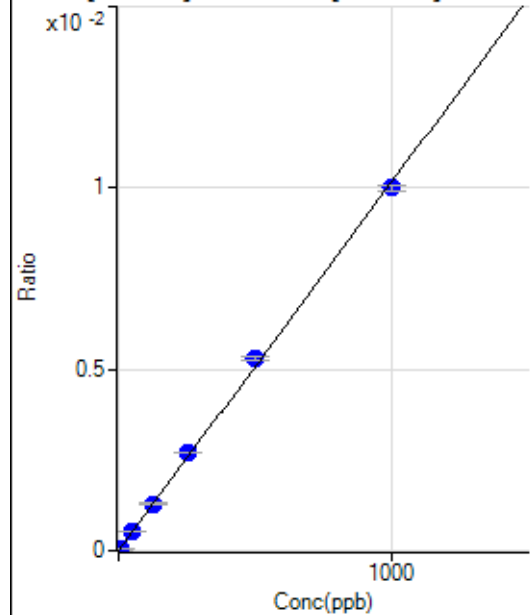
$$BEC = 6.23$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			40533.98		P	2.4
2	☐			42398.85		P	2.5
3	☐			41591.92		P	5.6
4	☐			40045.68		P	2.5
5	☐			38486.52		P	1.5
6	☐			37074.42		P	6.6
7	☐			38342.71		P	0.5
8	☐			39256.33		P	1.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-0.84	0.0000	P	-4305.
2	☐	5.000	4.733	755.18	0.0000	P	1.9
3	☐	50.000	53.195	8667.36	0.0005	P	0.2
4	☐	125.000	126.889	20609.51	0.0013	P	5.7
5	☐	250.000	266.210	42156.27	0.0027	P	1.0
6	☐	500.000	521.690	84316.21	0.0053	P	1.5
7	☐	1000.000	984.708	162001.59	0.0100	P	1.3
8	☐			257.14	0.0000	P	70.3

$$y = 1.0163E-005 * x - 7.3956E-008$$

$$R = 0.9995$$

$$DL = 0.9398$$

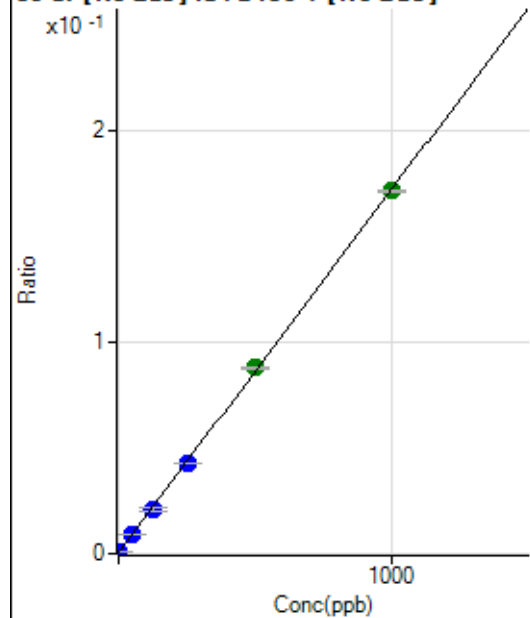
$$BEC = -0.007277$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4522.26		P	2.0
2	☐			4628.11		P	0.4
3	☐			4632.70		P	2.1
4	☐			4499.75		P	0.6
5	☐			4418.49		P	2.6
6	☐			4463.08		P	3.5
7	☐			4435.99		P	2.1
8	☐			4568.93		P	4.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	7302.08	0.0005	P	0.2
2	☐	1.000	0.858	9837.04	0.0006	P	3.3
3	☐	50.000	48.069	140094.76	0.0087	P	2.1
4	☐	125.000	118.660	333353.71	0.0209	P	6.9
5	☐	250.000	247.302	669602.25	0.0430	P	0.6
6	☐	500.000	510.316	1402231.20	0.0882	A	0.9
7	☐	1000.000	996.406	2779186.41	0.1717	A	0.7
8	☐			21661.64	0.0014	P	3.7

$$y = 1.7183E-004 * x + 4.7822E-004$$

$$R = 0.9999$$

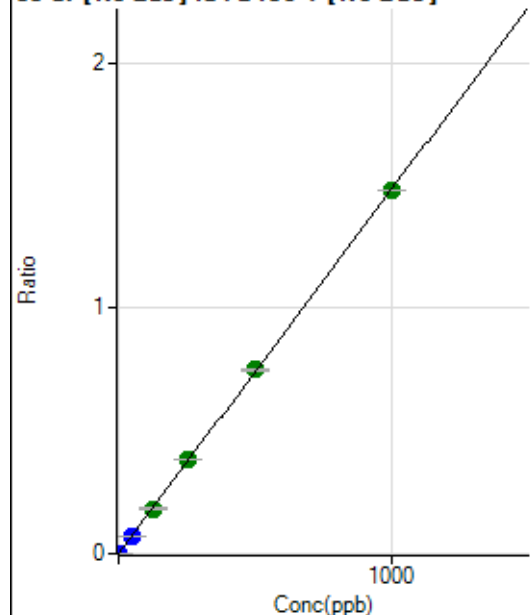
$$DL = 0.01534$$

$$BEC = 2.783$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	113.89	0.0000	P	30.7
2	☐	1.000	0.947	22204.31	0.0014	P	2.0
3	☐	50.000	49.414	1175463.56	0.0733	P	1.3
4	☐	125.000	122.882	2914765.69	0.1823	A	4.9
5	☐	250.000	257.318	5949275.26	0.3818	A	0.8
6	☐	500.000	504.779	11911243.67	0.7489	A	0.7
7	☐	1000.000	996.075	23922306.96	1.4778	A	0.2
8	☐			129248.33	0.0084	P	2.5

$$y = 0.0015 * x + 7.4762E-006$$

$$R = 0.9999$$

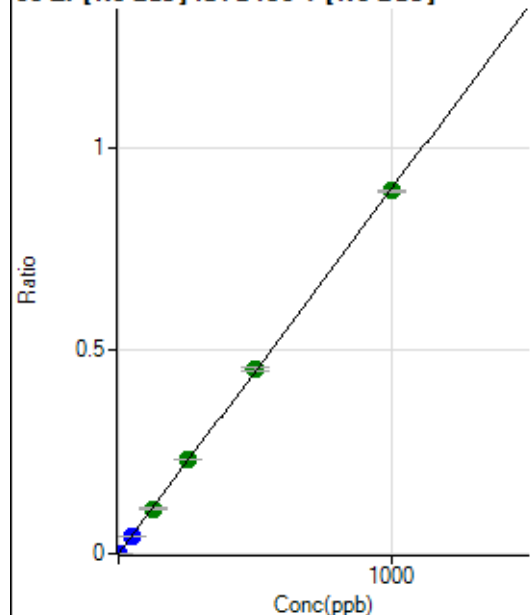
$$DL = 0.004644$$

$$BEC = 0.005039$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	591.70	0.0000	P	6.1
2	☐	1.000	0.915	13518.00	0.0009	P	1.2
3	☐	50.000	49.421	711396.30	0.0444	P	0.4
4	☐	125.000	122.820	1761403.06	0.1102	A	5.7
5	☐	250.000	258.873	3619030.20	0.2323	A	0.5
6	☐	500.000	506.708	7229001.47	0.4546	A	1.3
7	☐	1000.000	994.729	14445517.34	0.8923	A	0.6
8	☐			6696.24	0.0004	P	1.1

$$y = 8.9701E-004 * x + 3.8752E-005$$

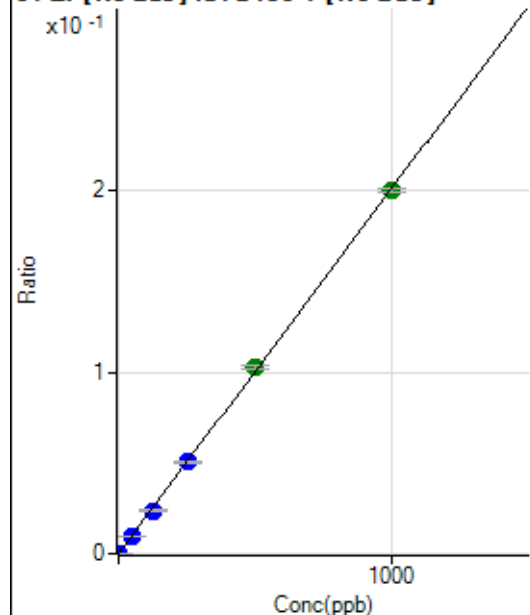
$$R = 0.9999$$

$$DL = 0.007864$$

$$BEC = 0.0432$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	127.78	0.0000	P	26.1
2	☐	1.000	0.889	2942.05	0.0002	P	2.2
3	☐	50.000	48.789	157406.33	0.0098	P	1.7
4	☐	125.000	118.477	380909.55	0.0238	P	5.4
5	☐	250.000	252.531	791275.24	0.0508	P	1.8
6	☐	500.000	512.027	1637240.67	0.1030	A	2.6
7	☐	1000.000	994.230	3236330.95	0.1999	A	1.1
8	☐			1441.77	0.0001	P	12.4

$$y = 2.0107\text{E-}004 * x + 8.3654\text{E-}006$$

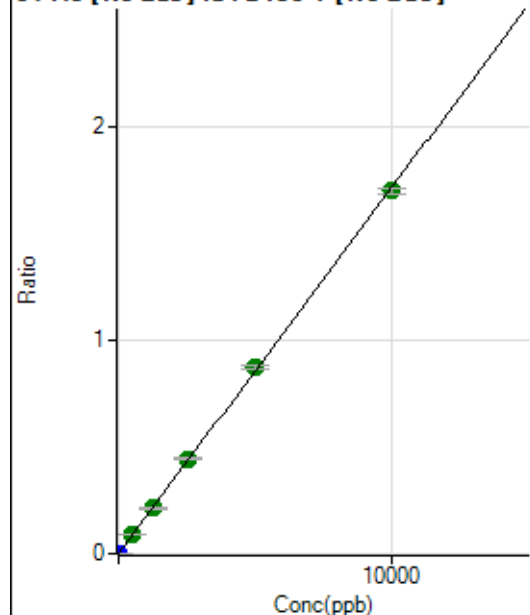
$$R = 0.9999$$

$$DL = 0.03253$$

$$BEC = 0.0416$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	200.01	0.0000	P	37.7
2	☐	5.000	5.926	16165.36	0.0010	P	2.0
3	☐	500.000	523.444	1437683.70	0.0897	A	1.6
4	☐	1250.000	1238.558	3389695.67	0.2122	A	6.8
5	☐	2500.000	2587.769	6906844.77	0.4433	A	2.3
6	☐	5000.000	5120.463	13948561.25	0.8772	A	2.0
7	☐	10000.000	9918.084	27501927.70	1.6990	A	1.5
8	☐			10426.45	0.0007	P	7.0

$$y = 1.7130\text{E-}004 * x + 1.3079\text{E-}005$$

$$R = 0.9998$$

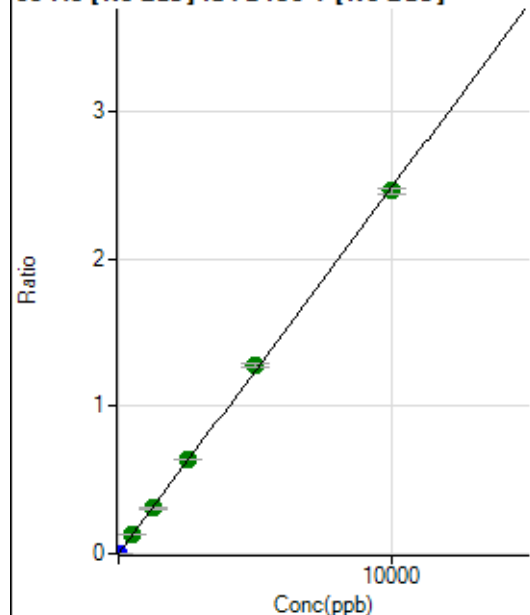
$$DL = 0.08644$$

$$BEC = 0.07635$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	69.45	0.0000	P	17.8
2	☐	5.000	4.958	19422.41	0.0012	P	4.6
3	☐	500.000	517.894	2061386.12	0.1286	A	1.5
4	☐	1250.000	1235.001	4896436.87	0.3066	A	7.8
5	☐	2500.000	2578.082	9972958.12	0.6400	A	1.0
6	☐	5000.000	5134.233	20269782.23	1.2746	A	1.9
7	☐	10000.000	9914.343	39844413.04	2.4614	A	1.9
8	☐			12005.53	0.0008	P	8.2

$$y = 2.4826\text{E-}004 * x + 4.5454\text{E-}006$$

$$R = 0.9998$$

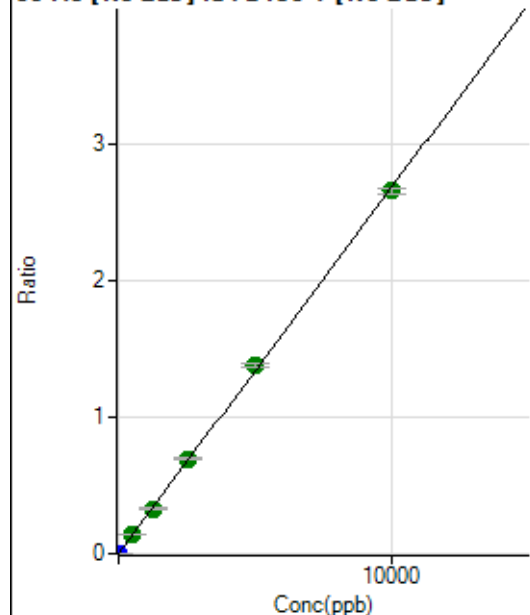
$$DL = 0.009773$$

$$BEC = 0.01831$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	316.68	0.0000	P	15.0
2	☐	5.000	5.005	21397.71	0.0014	P	1.6
3	☐	500.000	519.700	2231672.36	0.1392	A	0.5
4	☐	1250.000	1227.770	5252633.75	0.3288	A	6.9
5	☐	2500.000	2591.817	10814972.90	0.6941	A	1.0
6	☐	5000.000	5141.185	21893167.68	1.3768	A	2.2
7	☐	10000.000	9908.247	42952497.14	2.6533	A	1.8
8	☐			35883.69	0.0023	P	3.7

$$y = 2.6779\text{E-}004 * x + 2.0717\text{E-}005$$

$$R = 0.9998$$

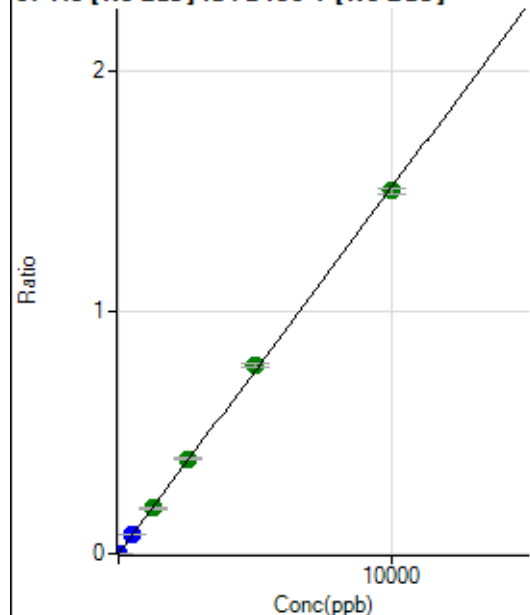
$$DL = 0.03485$$

$$BEC = 0.07736$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	38.89	0.0000	P	64.7
2	☐	5.000	5.017	12005.59	0.0008	P	3.3
3	☐	500.000	508.711	1237129.85	0.0772	P	1.7
4	☐	1250.000	1241.206	3008610.70	0.1883	A	6.2
5	☐	2500.000	2583.923	6107328.35	0.3920	A	1.5
6	☐	5000.000	5142.409	12404084.74	0.7801	A	2.3
7	☐	10000.000	9908.478	24329752.63	1.5030	A	1.5
8	☐			8097.01	0.0005	P	6.3

$$y = 1.5169\text{E-}004 * x + 2.5359\text{E-}006$$

$$R = 0.9998$$

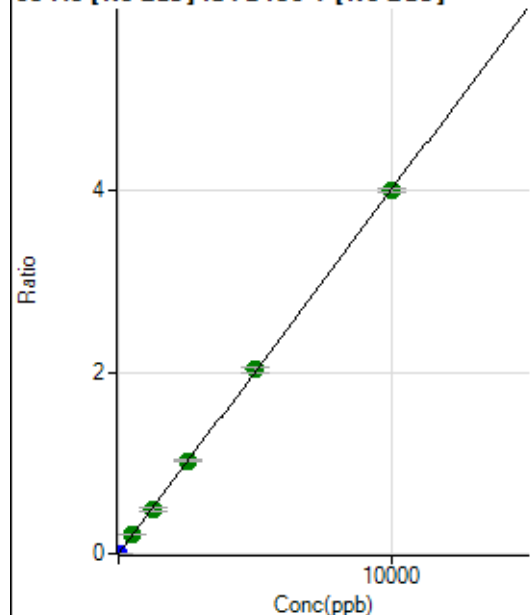
$$DL = 0.03244$$

$$BEC = 0.01672$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	141.67	0.0000	P	20.7
2	☐	5.000	4.915	31138.36	0.0020	P	3.1
3	☐	500.000	506.153	3254451.33	0.2030	A	1.2
4	☐	1250.000	1211.819	7767619.96	0.4860	A	5.6
5	☐	2500.000	2545.647	15907630.56	1.0209	A	1.8
6	☐	5000.000	5056.314	32242156.28	2.0278	A	3.6
7	☐	10000.000	9964.896	64691035.47	3.9963	A	1.1
8	☐			18679.87	0.0012	P	9.6

$$y = 4.0104\text{E-}004 * x + 9.2716\text{E-}006$$

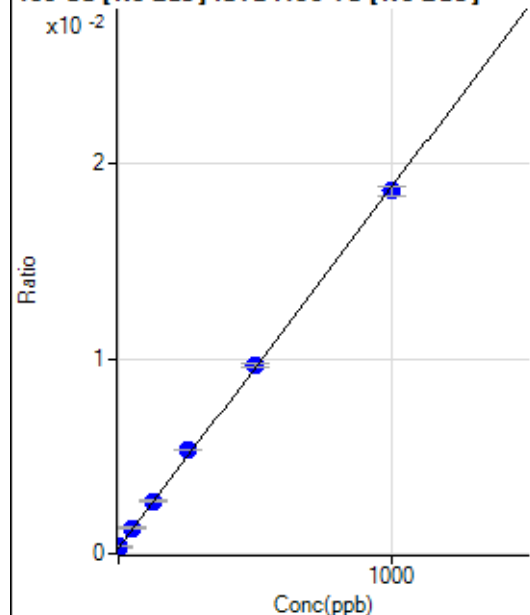
$$R = 1.0000$$

$$DL = 0.01437$$

$$BEC = 0.02312$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3103.21	0.0003	P	5.7
2	☐	1.000	3.872	3931.21	0.0004	P	4.4
3	☐	50.000	56.388	14911.16	0.0013	P	3.0
4	☐	125.000	129.651	30178.10	0.0027	P	3.3
5	☐	250.000	272.459	59158.72	0.0053	P	0.4
6	☐	500.000	506.631	112001.09	0.0097	P	1.6
7	☐	1000.000	990.166	214444.78	0.0186	P	2.7
8	☐			3911.78	0.0003	P	5.9

$$y = 1.8501\text{E-}005 * x + 2.8656\text{E-}004$$

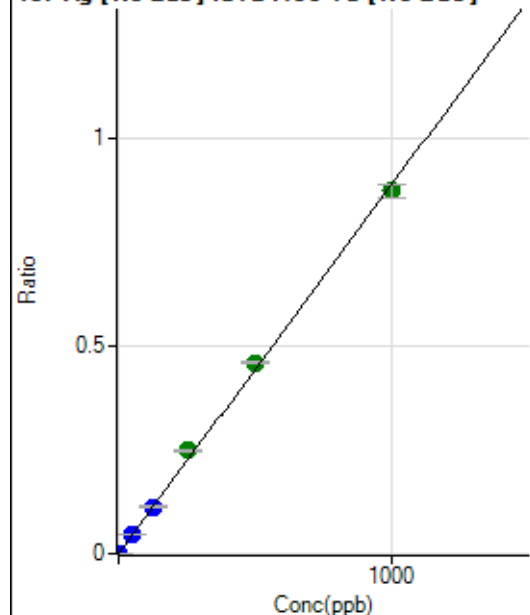
$$R = 0.9997$$

$$DL = 2.632$$

$$BEC = 15.49$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	111.12	0.0000	P	30.1
2	☐	1.000	0.988	9764.80	0.0009	P	4.6
3	☐	50.000	52.283	521740.06	0.0465	P	3.6
4	☐	125.000	125.807	1257322.19	0.1120	P	4.9
5	☐	250.000	279.453	2762106.92	0.2487	A	2.6
6	☐	500.000	518.069	5346759.71	0.4611	A	0.6
7	☐	1000.000	983.387	10087239.11	0.8752	A	3.4
8	☐			3658.93	0.0003	P	3.7

$$y = 8.8998\text{E-}004 * x + 1.0342\text{E-}005$$

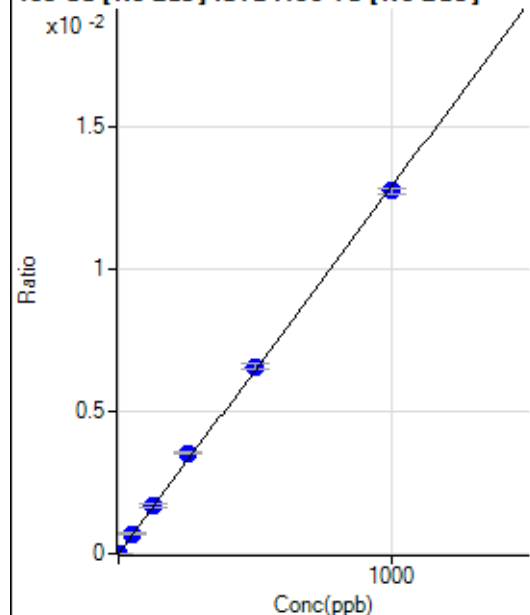
$$R = 0.9992$$

$$DL = 0.01051$$

$$BEC = 0.01162$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	47.22	0.0000	P	25.3
2	☐	1.000	1.313	233.34	0.0000	P	8.1
3	☐	50.000	53.967	7862.06	0.0007	P	2.7
4	☐	125.000	129.971	18883.93	0.0017	P	6.7
5	☐	250.000	274.542	39417.50	0.0035	P	0.9
6	☐	500.000	509.141	76288.19	0.0066	P	2.8
7	☐	1000.000	988.474	147189.10	0.0128	P	1.7
8	☐			113.89	0.0000	P	16.2

$$y = 1.2913\text{E-}005 * x + 4.3428\text{E-}006$$

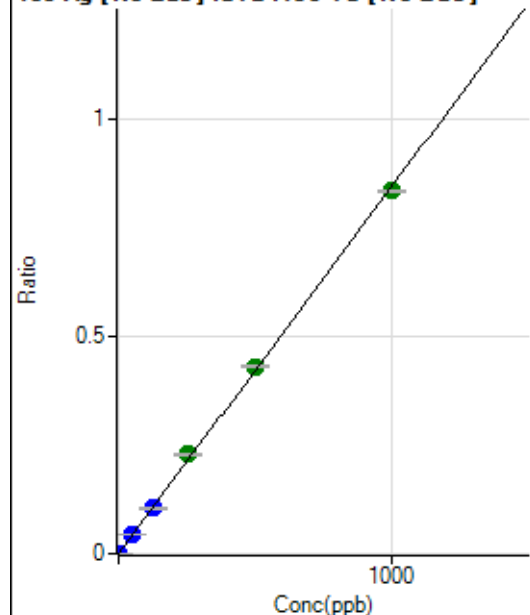
$$R = 0.9996$$

$$DL = 0.255$$

$$BEC = 0.3363$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	55.56	0.0000	P	42.3
2	☐	1.000	1.003	9328.41	0.0009	P	2.4
3	☐	50.000	52.054	492173.35	0.0439	P	1.7
4	☐	125.000	125.026	1183689.95	0.1054	P	4.9
5	☐	250.000	271.968	2546390.33	0.2293	A	1.5
6	☐	500.000	510.633	4992852.63	0.4305	A	1.7
7	☐	1000.000	989.086	9614199.60	0.8339	A	0.2
8	☐			3753.40	0.0003	P	7.0

$$y = 8.4311\text{E-}004 * x + 5.0778\text{E-}006$$

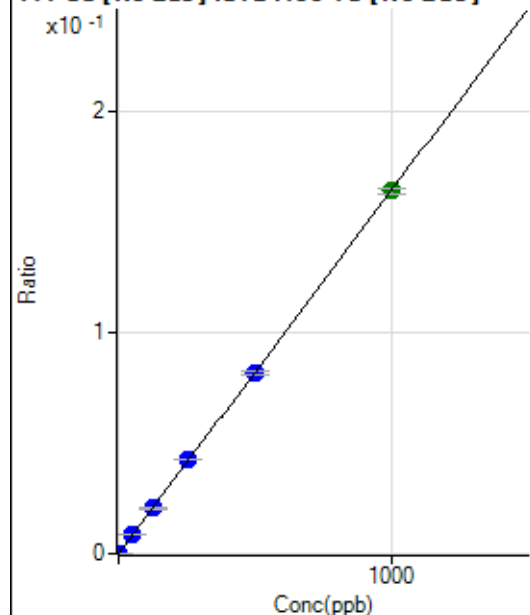
$$R = 0.9996$$

$$DL = 0.007649$$

$$BEC = 0.006023$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	39.64	0.0000	P	37.6
2	☐	1.000	1.099	2017.84	0.0002	P	2.6
3	☐	50.000	53.057	97612.06	0.0087	P	3.3
4	☐	125.000	125.884	231861.21	0.0207	P	5.4
5	☐	250.000	259.273	472307.26	0.0425	P	1.0
6	☐	500.000	498.110	947288.66	0.0817	P	2.2
7	☐	1000.000	998.363	1888000.03	0.1638	A	1.4
8	☐			658.03	0.0001	P	9.7

$$y = 1.6404\text{E-}004 * x + 3.6561\text{E-}006$$

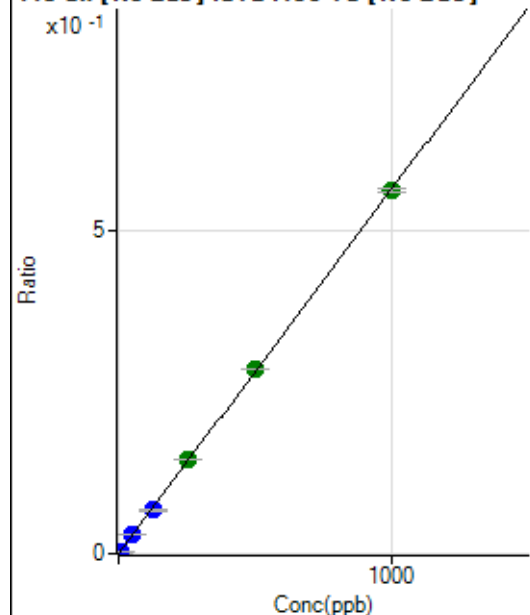
$$R = 0.9999$$

$$DL = 0.02512$$

$$BEC = 0.02229$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	730.60	0.0001	P	6.0
2	☐	5.000	4.796	30353.78	0.0028	P	2.2
3	☐	50.000	50.962	322572.47	0.0288	P	1.4
4	☐	125.000	119.414	755821.84	0.0673	P	5.0
5	☐	250.000	258.052	1614337.70	0.1454	A	1.4
6	☐	500.000	505.508	3301607.58	0.2847	A	0.3
7	☐	1000.000	995.884	6466430.66	0.5609	A	1.1
8	☐			7138.15	0.0006	P	1.7

$$y = 5.6313\text{E-}004 * x + 6.7479\text{E-}005$$

$$R = 0.9999$$

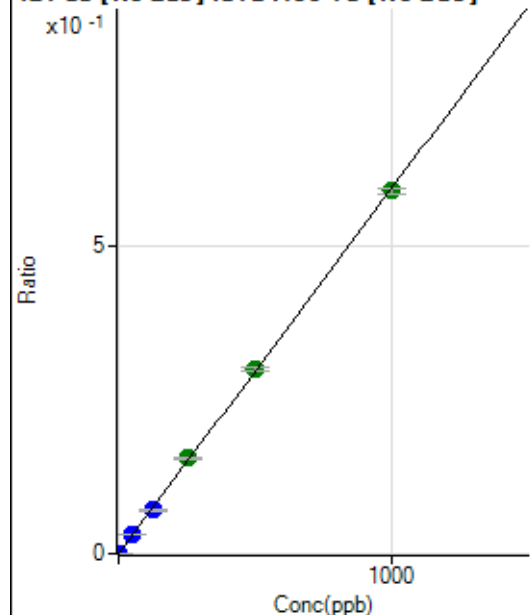
$$DL = 0.02153$$

$$BEC = 0.1198$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	29.3
2	☐	2.000	1.882	12291.94	0.0011	P	3.6
3	☐	50.000	51.004	339734.01	0.0303	P	2.2
4	☐	125.000	120.447	803576.09	0.0716	P	4.3
5	☐	250.000	262.625	1732289.40	0.1560	A	1.5
6	☐	500.000	506.794	3490902.59	0.3010	A	1.5
7	☐	1000.000	993.966	6805972.20	0.5904	A	1.6
8	☐			5631.87	0.0005	P	6.5

$$y = 5.9402\text{E-}004 * x + 3.3570\text{E-}006$$

$$R = 0.9998$$

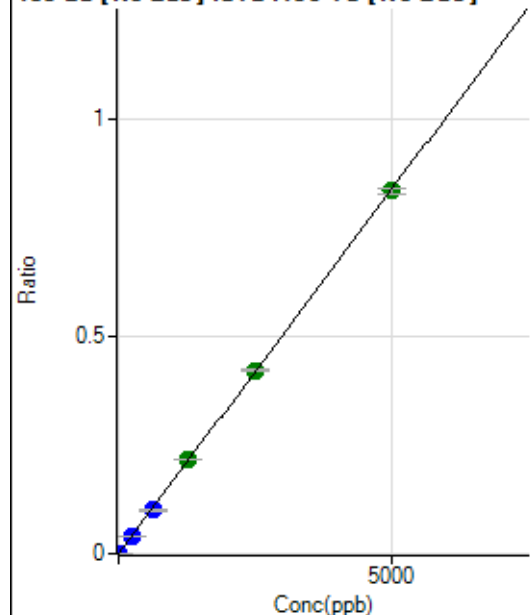
$$DL = 0.00496$$

$$BEC = 0.005651$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	59.2
2	☐	10.000	9.228	17016.60	0.0016	P	4.6
3	☐	250.000	246.169	463472.17	0.0413	P	1.9
4	☐	625.000	597.374	1125688.16	0.1003	P	6.4
5	☐	1250.000	1296.891	2418020.00	0.2178	A	1.4
6	☐	2500.000	2520.451	4907263.52	0.4232	A	0.4
7	☐	5000.000	4981.698	9641864.62	0.8365	A	1.7
8	☐			3797.86	0.0003	P	1.7

$$y = 1.6791\text{E-}004 * x + 2.3386\text{E-}006$$

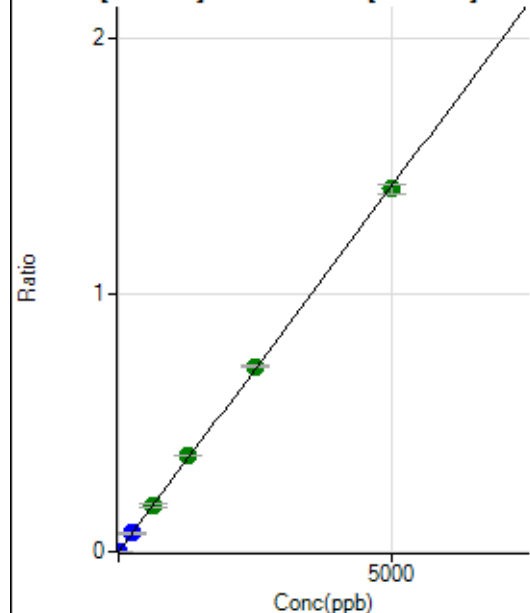
$$R = 0.9999$$

$$DL = 0.02473$$

$$BEC = 0.01393$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	52.9
2	☐	10.000	9.489	29622.07	0.0027	P	5.3
3	☐	250.000	252.880	806604.74	0.0719	P	3.0
4	☐	625.000	622.714	1987648.29	0.1772	A	7.4
5	☐	1250.000	1315.376	4155419.32	0.3742	A	1.9
6	☐	2500.000	2537.577	8370858.96	0.7219	A	1.3
7	☐	5000.000	4965.010	16280856.61	1.4126	A	2.7
8	☐			6546.20	0.0006	P	6.8

$$y = 2.8450E-004 * x + 3.3336E-006$$

$$R = 0.9999$$

$$DL = 0.01861$$

$$BEC = 0.01172$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			17.78		P	21.7
2	☐			15.56		P	49.5
3	☐			42.22		P	24.1
4	☐			106.67		P	21.7
5	☐			140.01		P	9.5
6	☐			328.90		P	11.5
7	☐			604.47		P	7.1
8	☐			113.34		P	17.6

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.45		P	86.6
2	☐			2.22		P	86.6
3	☐			4.45		P	86.6
4	☐			6.66		P	86.6
5	☐			15.56		P	53.9
6	☐			26.67		P	12.5
7	☐			52.22		P	13.3
8	☐			37.78		P	13.5

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5.55		P	86.6
2	☐			8.33		P	100.0
3	☐			25.00		P	33.3
4	☐			72.22		P	33.3
5	☐			113.89		P	15.2
6	☐			216.67		P	10.2
7	☐			405.57		P	19.4
8	☐			844.50		P	9.9

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	86.6
2	☐			3.33		P	100.1
3	☐			11.11		P	62.5
4	☐			24.44		P	51.6
5	☐			35.56		P	35.5
6	☐			92.22		P	11.0
7	☐			138.89		P	11.3
8	☐			245.56		P	6.7

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			66.67		P	37.5
2	☐			61.11		P	41.7
3	☐			61.11		P	20.8
4	☐			113.90		P	29.6
5	☐			125.00		P	6.7
6	☐			258.34		P	8.5
7	☐			380.57		P	27.4
8	☐			588.92		P	16.4

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			60.00		P	19.2
2	☐			65.56		P	25.1
3	☐			62.22		P	22.3
4	☐			70.00		P	39.0
5	☐			94.45		P	14.3
6	☐			141.11		P	7.2
7	☐			185.56		P	22.8
8	☐			296.67		P	11.2

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			58.34		P	28.6
2	☐			63.89		P	32.8
3	☐			127.78		P	19.9
4	☐			75.00		P	29.4
5	☐			100.01		P	28.9
6	☐			175.01		P	37.8
7	☐			186.12		P	6.8
8	☐			108.34		P	20.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			26.67		P	37.5
2	☐			22.22		P	31.2
3	☐			41.11		P	28.5
4	☐			32.22		P	21.5
5	☐			38.89		P	19.8
6	☐			56.67		P	27.0
7	☐			67.78		P	11.4
8	☐			27.78		P	60.4

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			66.67		P	37.5
2	☐			80.56		P	21.5
3	☐			77.78		P	44.6
4	☐			83.34		P	10.0
5	☐			102.78		P	20.4
6	☐			105.56		P	25.4
7	☐			147.23		P	6.5
8	☐			180.56		P	5.3

172 Yb [He] No available calibration points

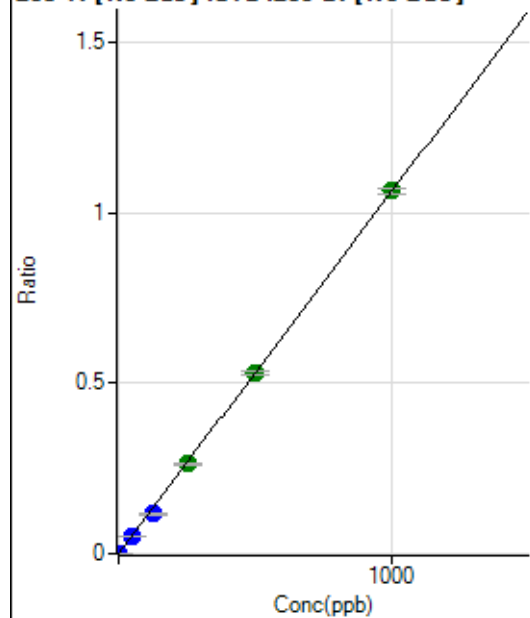
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			24.07		P	13.3
2	☐			25.92		P	24.7
3	☐			27.78		P	20.0
4	☐			29.63		P	10.8
5	☐			37.04		P	17.3
6	☐			40.74		P	20.8
7	☐			70.37		P	22.8
8	☐			100.00		P	14.7

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1075.08		P	11.3
2	☐			1272.32		P	3.1
3	☐			2539.20		P	4.4
4	☐			4542.57		P	4.4
5	☐			8297.30		P	4.4
6	☐			15239.76		P	2.2
7	☐			29366.61		P	2.0
8	☐			1452.90		P	10.1

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4508.26		P	4.8
2	☐			4339.69		P	7.0
3	☐			4817.63		P	7.2
4	☐			5651.32		P	8.1
5	☐			7074.25		P	0.8
6	☐			9646.28		P	4.8
7	☐			15125.55		P	4.4
8	☐			4499.01		P	2.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	647.26	0.0001	P	20.4
2	☐	1.000	0.880	6535.18	0.0010	P	3.8
3	☐	50.000	46.203	318566.95	0.0491	P	0.8
4	☐	125.000	109.676	770578.83	0.1164	P	6.2
5	☐	250.000	247.642	1713244.25	0.2628	A	2.8
6	☐	500.000	499.689	3521689.49	0.5301	A	1.9
7	☐	1000.000	1002.850	6900301.89	1.0638	A	1.9
8	☐			3506.14	0.0006	P	6.9

$$y = 0.0011 * x + 1.0550E-004$$

$$R = 0.9999$$

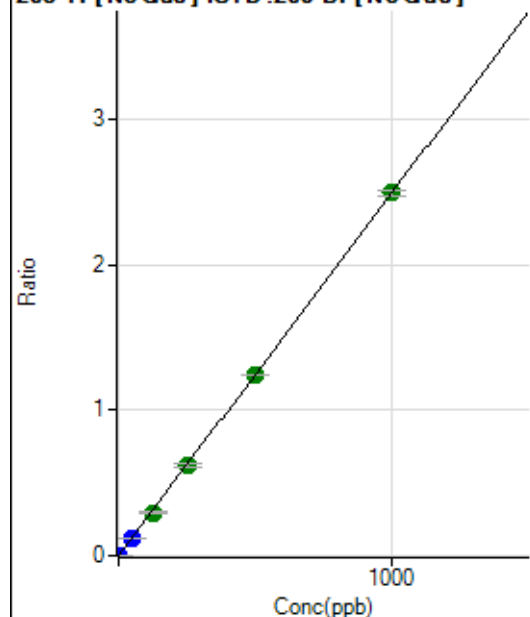
$$DL = 0.06088$$

$$BEC = 0.09947$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1644.59	0.0003	P	5.6
2	☐	1.000	0.859	15159.25	0.0024	P	2.6
3	☐	50.000	47.612	772030.43	0.1190	P	2.6
4	☐	125.000	119.159	1969418.66	0.2975	A	5.8
5	☐	250.000	249.913	4066958.86	0.6237	A	2.8
6	☐	500.000	498.765	8267750.62	1.2446	A	0.8
7	☐	1000.000	1001.489	16208052.44	2.4988	A	1.6
8	☐			8166.71	0.0014	P	9.0

$$y = 0.0025 * x + 2.6763E-004$$

$$R = 1.0000$$

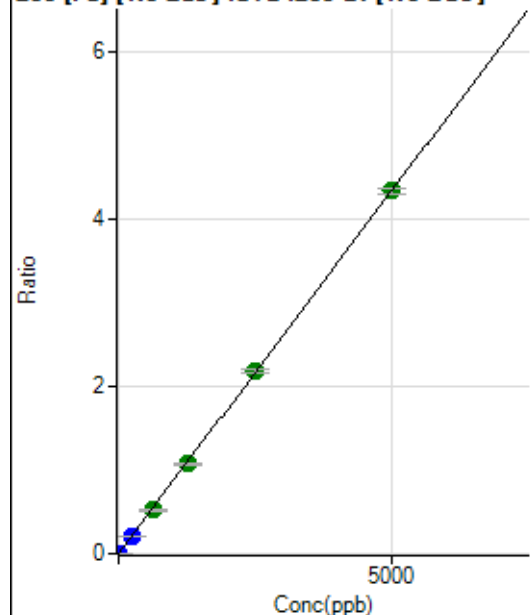
$$DL = 0.01814$$

$$BEC = 0.1073$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	751.89	0.0001	P	7.1
2	☐	1.000	0.880	5579.07	0.0009	P	3.2
3	☐	250.000	232.195	1308933.32	0.2018	P	2.7
4	☐	625.000	599.658	3447897.71	0.5211	A	6.6
5	☐	1250.000	1237.605	7012513.76	1.0753	A	1.1
6	☐	2500.000	2510.745	14494292.45	2.1813	A	1.7
7	☐	5000.000	5001.784	28184465.91	4.3453	A	1.9
8	☐			6531.42	0.0011	P	1.8

$$y = 8.6872E-004 * x + 1.2248E-004$$

$$R = 1.0000$$

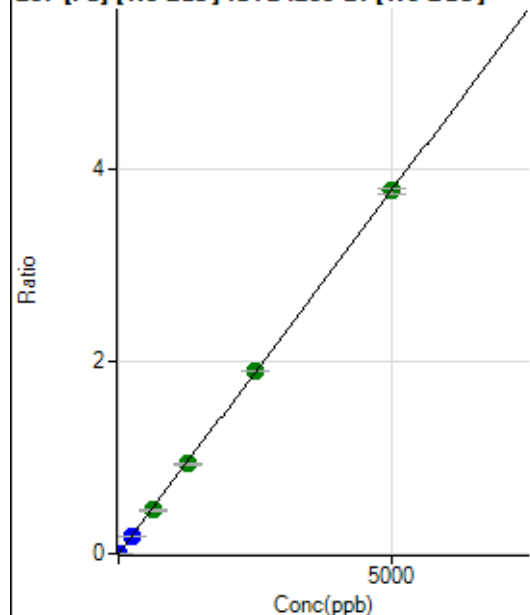
$$DL = 0.03023$$

$$BEC = 0.141$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	670.40	0.0001	P	8.1
2	☐	1.000	0.880	4862.11	0.0008	P	1.5
3	☐	250.000	229.383	1122217.56	0.1730	P	2.0
4	☐	625.000	601.059	2999536.44	0.4532	A	6.2
5	☐	1250.000	1237.296	6083061.94	0.9329	A	2.5
6	☐	2500.000	2518.554	12616439.75	1.8988	A	0.9
7	☐	5000.000	4997.923	24441629.48	3.7680	A	1.4
8	☐			5884.78	0.0010	P	1.6

$$y = 7.5389E-004 * x + 1.0914E-004$$

$$R = 1.0000$$

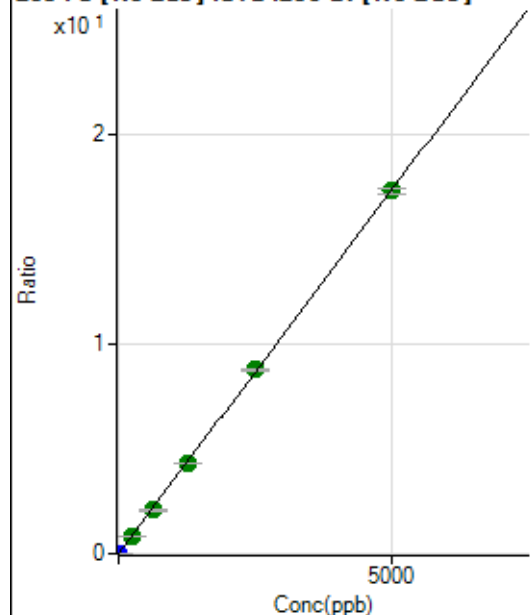
$$DL = 0.03496$$

$$BEC = 0.1448$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3187.26	0.0005	P	3.6
2	☐	1.000	0.867	22198.55	0.0035	P	1.1
3	☐	250.000	240.334	5413209.63	0.8346	A	1.8
4	☐	625.000	595.559	13685035.64	2.0675	A	5.9
5	☐	1250.000	1240.964	28089431.47	4.3075	A	1.5
6	☐	2500.000	2528.800	58321909.29	8.7772	A	1.4
7	☐	5000.000	4992.023	112392679.1	17.3263	A	1.6
8	☐			26386.98	0.0045	P	3.9

$$y = 0.0035 * x + 5.1903E-004$$

$$R = 1.0000$$

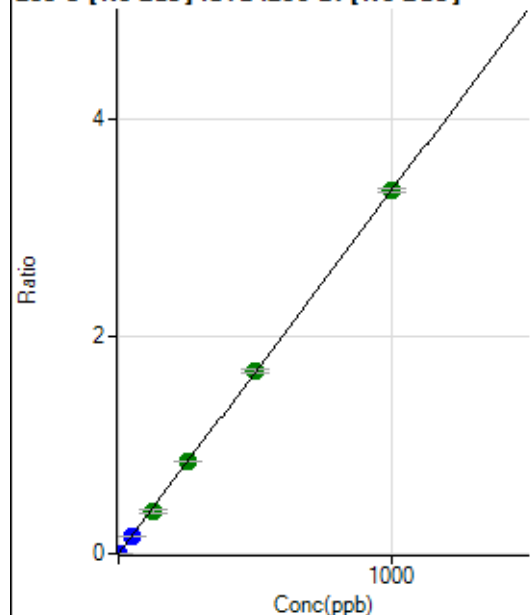
$$DL = 0.01632$$

$$BEC = 0.1495$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	56.3
2	☐	1.000	0.868	18316.54	0.0029	P	4.8
3	☐	50.000	45.956	997805.56	0.1538	P	2.4
4	☐	125.000	116.174	2573784.20	0.3889	A	6.2
5	☐	250.000	253.981	5545346.74	0.8502	A	1.3
6	☐	500.000	501.642	11153861.10	1.6793	A	1.9
7	☐	1000.000	999.489	21705104.65	3.3459	A	0.9
8	☐			1608.49	0.0003	P	12.8

$$y = 0.0033 * x + 4.0513E-006$$

$$R = 0.9999$$

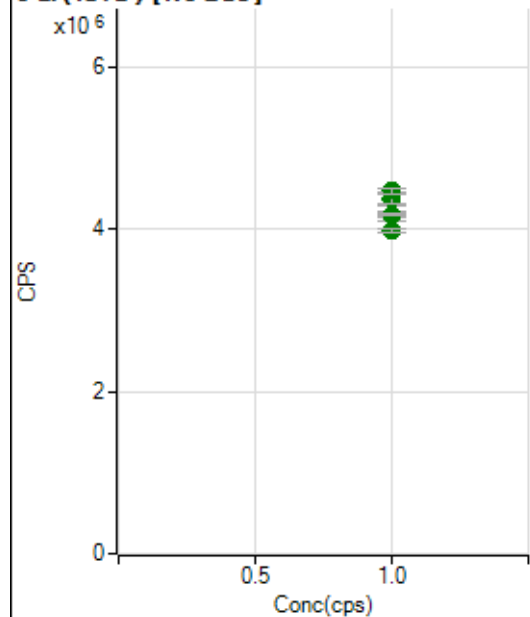
$$DL = 0.002044$$

$$BEC = 0.00121$$

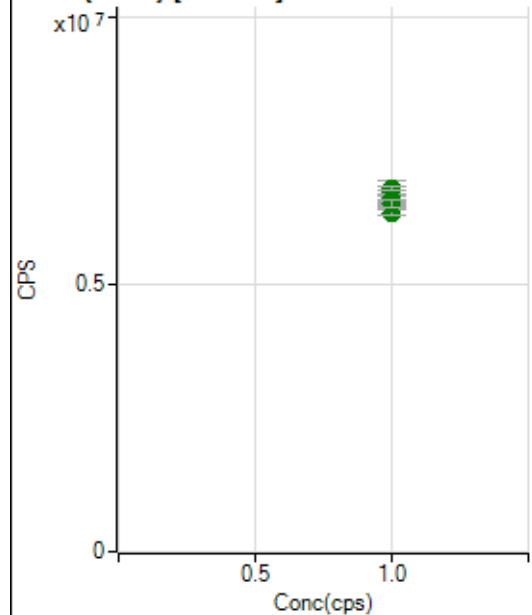
Weight: <None>

Min Conc: 0

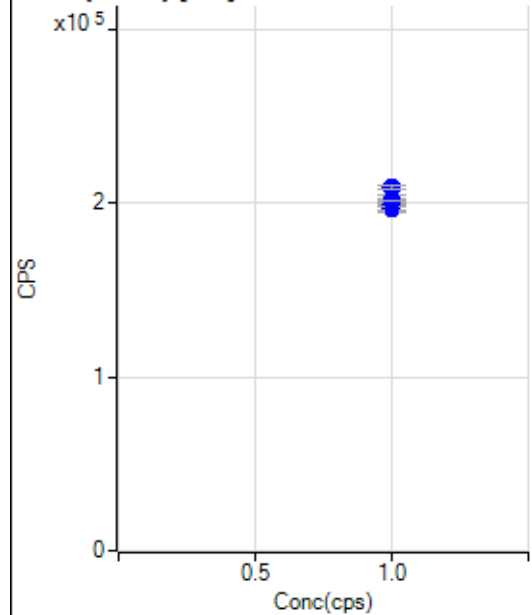
6 Li (ISTD) [No Gas]



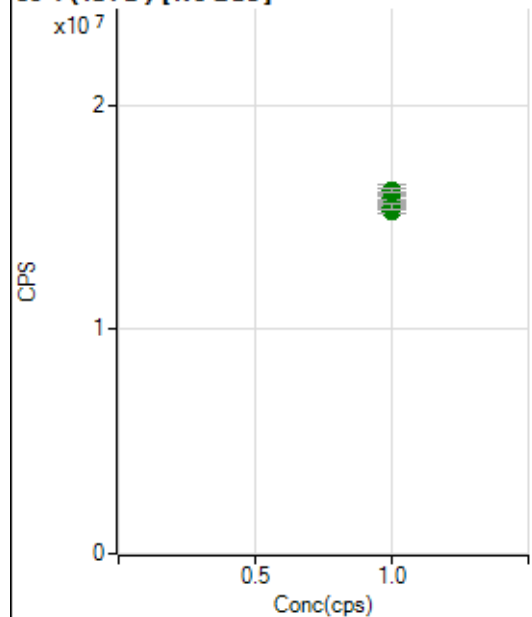
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3987541.22		A	0.6
2	☐	1.000		4170923.04		A	3.1
3	☐	1.000		4179506.32		A	1.3
4	☐	1.000		4377561.14		A	4.0
5	☐	1.000		4400970.41		A	3.2
6	☐	1.000		4474567.98		A	1.3
7	☐	1.000		4477878.76		A	1.7
8	☐	1.000		4184879.55		A	0.9

45 Sc (ISTD) [No Gas]

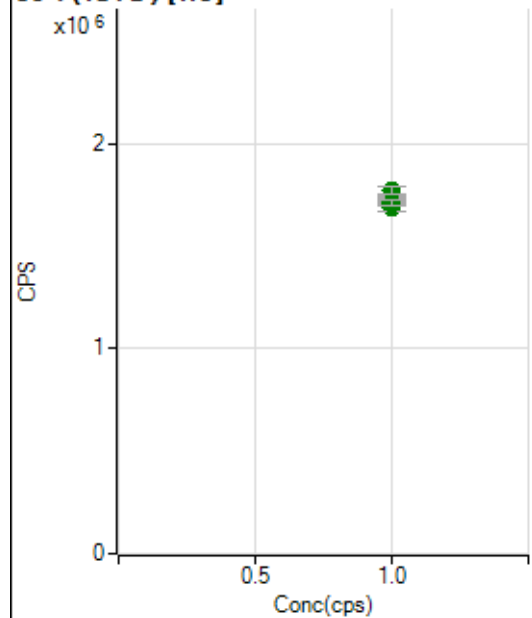
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6341668.31		A	1.3
2	☐	1.000		6564595.67		A	2.2
3	☐	1.000		6735889.20		A	2.6
4	☐	1.000		6760627.81		A	5.5
5	☐	1.000		6492943.86		A	0.6
6	☐	1.000		6596421.71		A	2.2
7	☐	1.000		6778999.28		A	1.0
8	☐	1.000		6511553.72		A	2.2

45 Sc (ISTD) [He]

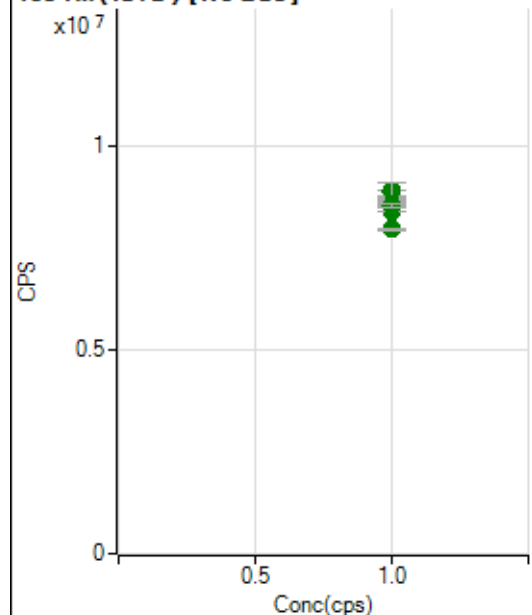
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		197006.44		P	2.3
2	☐	1.000		200862.13		P	1.7
3	☐	1.000		202449.79		P	1.6
4	☐	1.000		197869.37		P	2.1
5	☐	1.000		198941.82		P	0.9
6	☐	1.000		201386.21		P	1.0
7	☐	1.000		208508.82		P	1.0
8	☐	1.000		200875.00		P	0.2

89 Y (ISTD) [No Gas]

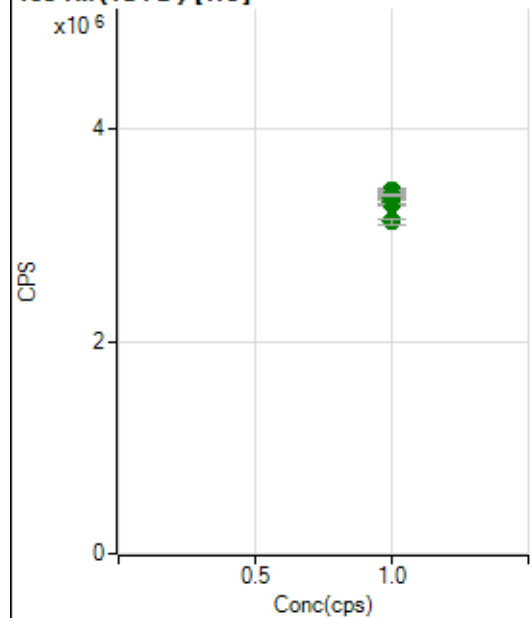
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		15269075.33		A	1.1
2	☐	1.000		15722086.57		A	0.6
3	☐	1.000		16033806.57		A	1.5
4	☐	1.000		16016246.57		A	5.6
5	☐	1.000		15582824.21		A	1.2
6	☐	1.000		15904790.73		A	1.3
7	☐	1.000		16188123.65		A	0.9
8	☐	1.000		15456702.96		A	1.8

89 Y (ISTD) [He]

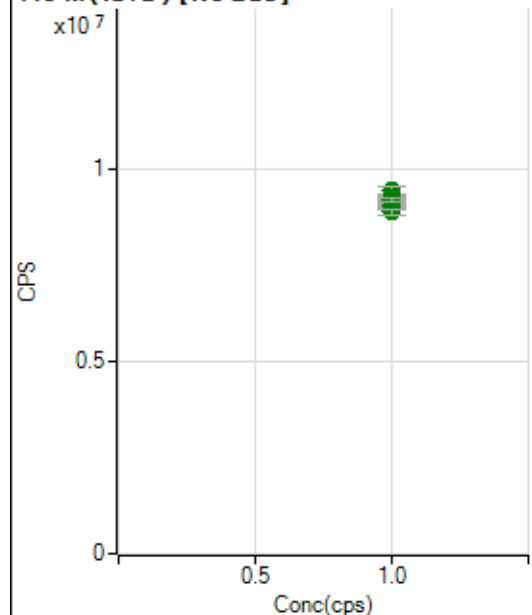
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1747832.22		A	0.4
2	☐	1.000		1723589.71		A	0.6
3	☐	1.000		1726242.60		A	1.7
4	☐	1.000		1684493.33		A	1.5
5	☐	1.000		1717507.94		A	1.2
6	☐	1.000		1714239.00		A	2.3
7	☐	1.000		1767691.19		A	2.3
8	☐	1.000		1709242.26		A	1.3

103 Rh (ISTD) [No Gas]

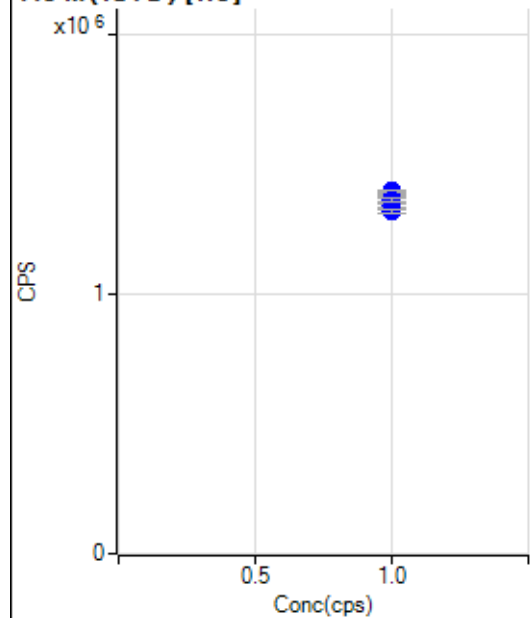
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8627222.59		A	1.4
2	☐	1.000		8687258.96		A	1.0
3	☐	1.000		8865051.41		A	1.5
4	☐	1.000		8912319.56		A	4.5
5	☐	1.000		8397866.07		A	0.3
6	☐	1.000		8589168.77		A	2.3
7	☐	1.000		8552695.16		A	0.7
8	☐	1.000		7962070.84		A	1.0

103 Rh (ISTD) [He]

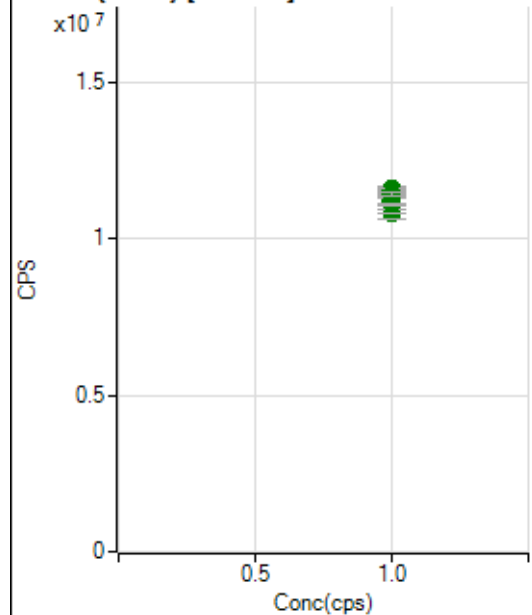
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3417708.53		A	1.7
2	☐	1.000		3418571.96		A	0.3
3	☐	1.000		3376296.93		A	2.0
4	☐	1.000		3302190.09		A	1.6
5	☐	1.000		3319803.70		A	1.4
6	☐	1.000		3351787.14		A	1.1
7	☐	1.000		3377551.27		A	0.4
8	☐	1.000		3125744.22		A	1.4

115 In (ISTD) [No Gas]

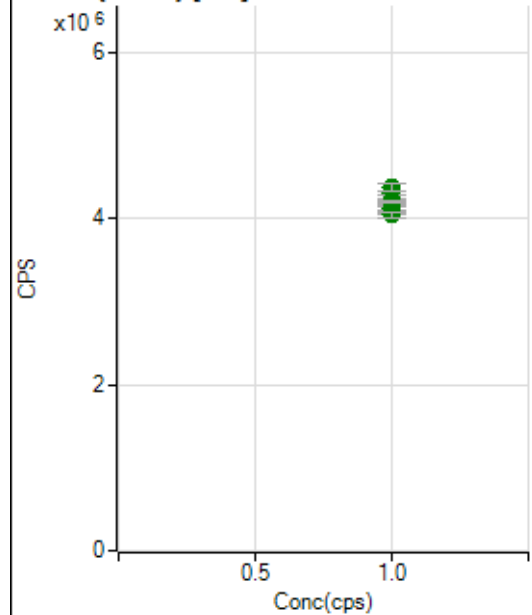
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9117327.64		A	1.7
2	☐	1.000		9333842.94		A	0.7
3	☐	1.000		9439665.35		A	2.5
4	☐	1.000		9294181.02		A	5.8
5	☐	1.000		9058453.30		A	0.6
6	☐	1.000		9268539.37		A	0.9
7	☐	1.000		9214204.82		A	0.7
8	☐	1.000		8881522.24		A	1.3

115 In (ISTD) [He]

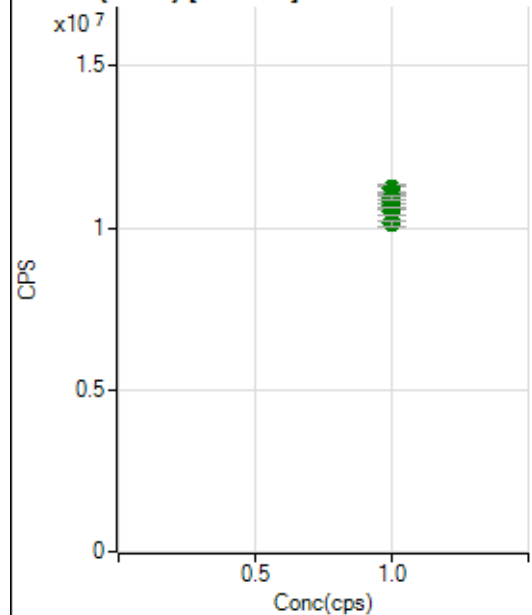
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1380426.93		P	0.8
2	☐	1.000		1390497.53		P	1.7
3	☐	1.000		1398980.42		P	0.3
4	☐	1.000		1343885.34		P	1.1
5	☐	1.000		1354044.13		P	0.3
6	☐	1.000		1352435.30		P	0.4
7	☐	1.000		1364073.74		P	0.8
8	☐	1.000		1320560.00		P	1.1

159 Tb (ISTD) [No Gas]

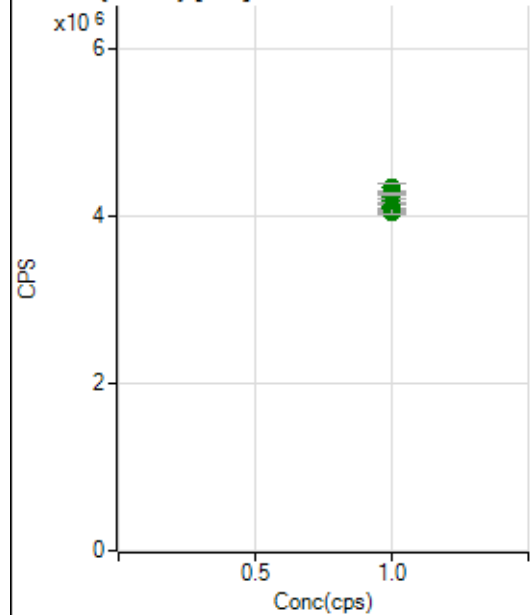
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10828134.77		A	3.8
2	☐	1.000		10969000.11		A	2.8
3	☐	1.000		11214556.09		A	1.6
4	☐	1.000		11248294.27		A	5.4
5	☐	1.000		11104522.06		A	0.5
6	☐	1.000		11595488.72		A	1.4
7	☐	1.000		11528743.44		A	1.5
8	☐	1.000		11427793.72		A	1.5

159 Tb (ISTD) [He]

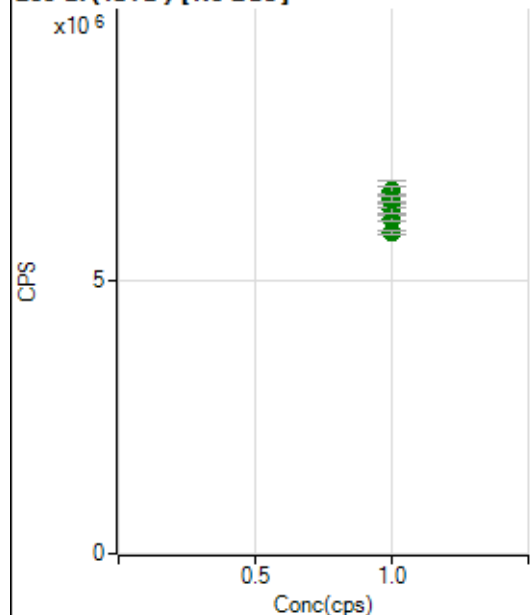
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4112149.38		A	2.4
2	☐	1.000		4130264.11		A	1.2
3	☐	1.000		4179231.15		A	1.5
4	☐	1.000		4043881.57		A	1.7
5	☐	1.000		4204274.24		A	1.8
6	☐	1.000		4307968.65		A	0.8
7	☐	1.000		4371199.90		A	2.0
8	☐	1.000		4208057.75		A	0.2

165 Ho (ISTD) [No Gas]

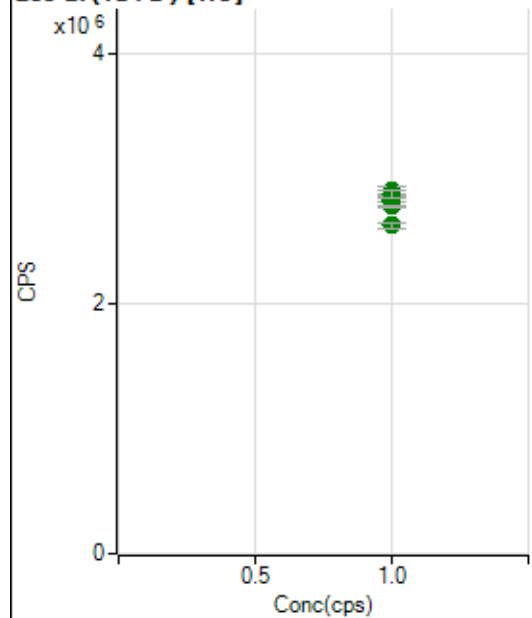
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10140588.16		A	1.8
2	☐	1.000		10490689.73		A	1.7
3	☐	1.000		10675474.72		A	1.2
4	☐	1.000		10934058.06		A	6.1
5	☐	1.000		10796753.54		A	3.0
6	☐	1.000		11197501.21		A	2.5
7	☐	1.000		11091916.48		A	0.3
8	☐	1.000		10919310.57		A	1.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4050762.23		A	0.6
2	☐	1.000		4120523.31		A	1.8
3	☐	1.000		4141667.20		A	0.4
4	☐	1.000		4081080.29		A	3.2
5	☐	1.000		4186897.99		A	1.1
6	☐	1.000		4225762.26		A	1.1
7	☐	1.000		4332491.19		A	2.2
8	☐	1.000		4262619.27		A	0.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6141952.48		A	1.3
2	☐	1.000		6291683.73		A	1.8
3	☐	1.000		6487142.82		A	2.0
4	☐	1.000		6634001.01		A	5.9
5	☐	1.000		6522166.85		A	2.0
6	☐	1.000		6643577.96		A	2.1
7	☐	1.000		6487436.08		A	1.8
8	☐	1.000		5885794.36		A	1.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2787505.55		A	1.9
2	☐	1.000		2822880.93		A	3.7
3	☐	1.000		2844294.05		A	2.3
4	☐	1.000		2812433.95		A	2.9
5	☐	1.000		2779896.94		A	0.6
6	☐	1.000		2899374.26		A	2.6
7	☐	1.000		2874570.75		A	2.4
8	☐	1.000		2623573.52		A	1.5

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8051122MS.b

Acq. Date-Time 2022-05-11 14:41:22

Report Comment ---

Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		11985	119848.75			1.650	5.000
24		83972	839722.59			1.639	5.000
25		11040	110400.90			1.820	5.000
26		12809	128093.46			2.086	5.000
59		19490	194897.82			1.924	5.000
113		9842	98417.55			2.535	5.000
115		29468	294675.92			2.295	5.000
206		12249	122485.78			2.643	5.000
207		10305	103051.71			2.911	5.000
208		25144	251444.92			3.249	5.000
220		0	4.50			36.851	

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

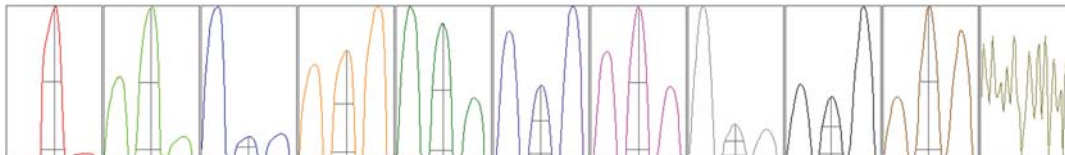
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	11804	11915	11848	12290	12068
24	82746	83752	83025	86233	84106
25	10878	11126	10827	11327	11043
26	12612	12765	12617	13264	12789
59	19208	19519	19178	20108	19436
113	9560	9954	9688	10205	9802
115	28809	29853	28870	30409	29397
206	11841	12193	12146	12732	12331
207	9969	10262	10150	10770	10375
208	24423	25016	24467	26411	25405

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	21823.11	9.05	8.90 - 9.10	
24	143048.54	24.00	23.90 - 24.10	
25	18813.48	25.00	24.90 - 25.10	
26	21776.31	26.05	25.90 - 26.10	
59	35338.88	59.00	58.90 - 59.10	
113	19173.46	113.00	112.90 - 113.10	
115	56571.47	115.05	114.90 - 115.10	
206	23114.00	206.00	205.90 - 206.10	
207	19205.67	206.95	206.90 - 207.10	
208	47937.97	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.734	0.900	
24	0.62	0.777	0.900	
25	0.63	0.740	0.900	
26	0.62	0.742	0.900	
59	0.58	0.734	0.900	
113	0.53	0.726	0.900	
115	0.55	0.726	0.900	
206	0.57	0.778	0.900	
207	0.57	0.749	0.900	
208	0.56	0.801	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.5 V	Deflect	15.6 V
Extract 2	-160.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-80 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	0.2 mm	Torch V	-0.2 mm
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EM

Discriminator	4.3 mV	Analog HV	2336 V	Pulse HV	1702 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		3654	36539.25			3.410	
89		15452	154522.59			4.022	
205		23563	235634.05			3.634	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	3749	3674	3695	3715	3437
89	15867	15656	15758	15627	14353
205	24243	23614	24233	23584	22143

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.5 V	Deflect	3.8 V
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Extract 2	-160.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-80 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	0.2 mm	Torch V	-0.2 mm
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EM

Discriminator	4.3 mV	Analog HV	2336 V	Pulse HV	1702 V
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