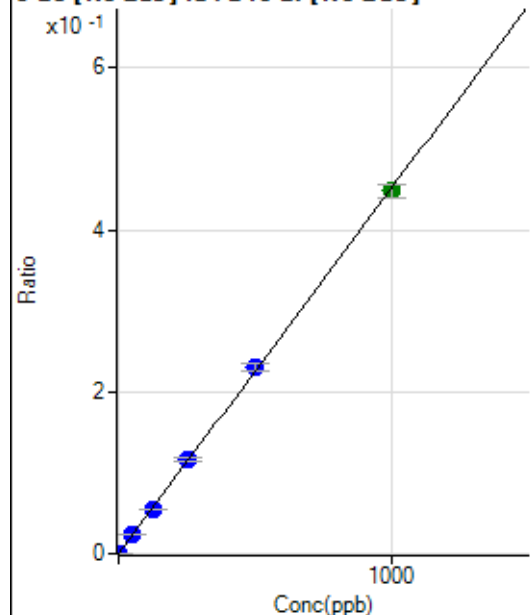


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8051223-MS.b\
Analysis File: P8051223-MS.batch.bin
DA Date-Time: 2023-05-12 20:30:46
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-05-12 09:39:20
2	005CALS.d	S02	2023-05-12 09:42:22
3	006CALS.d	S03	2023-05-12 09:45:26
4	007CALS.d	S04	2023-05-12 09:48:27
5	008CALS.d	S05	2023-05-12 09:51:27
6	009CALS.d	S06	2023-05-12 09:54:26
7	010CALS.d	S07	2023-05-12 09:57:28
8	011CALS.d	S08	2023-05-12 10:00:27

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	95.82	0.0000	P	9.3
2	☐	1.000	1.073	1245.73	0.0005	P	2.9
3	☐	50.000	50.921	56219.98	0.0230	P	2.0
4	☐	125.000	120.749	136634.30	0.0545	P	2.4
5	☐	250.000	258.117	276898.75	0.1165	P	2.9
6	☐	500.000	511.008	551960.57	0.2305	P	4.2
7	☐	1000.000	992.952	1059260.20	0.4479	A	3.5
8	☐			718.68	0.0003	P	7.1

$$y = 4.5102\text{E-}004 * x + 4.0229\text{E-}005$$

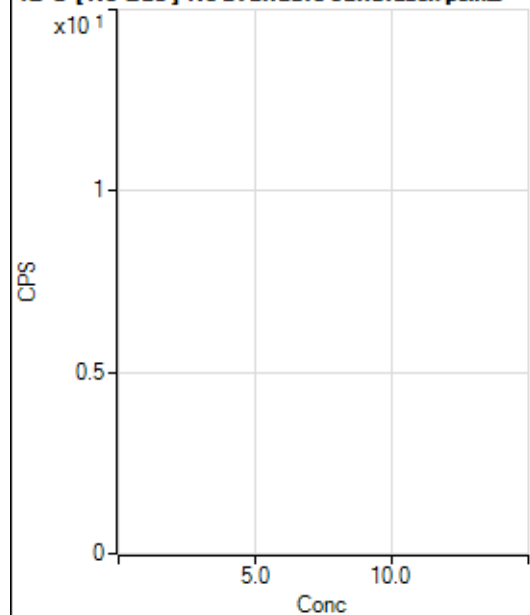
$$R = 0.9999$$

$$DL = 0.02477$$

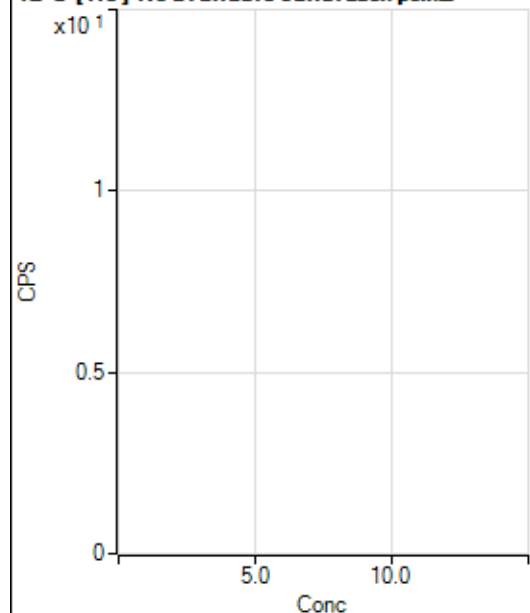
$$BEC = 0.0892$$

Weight: <None>

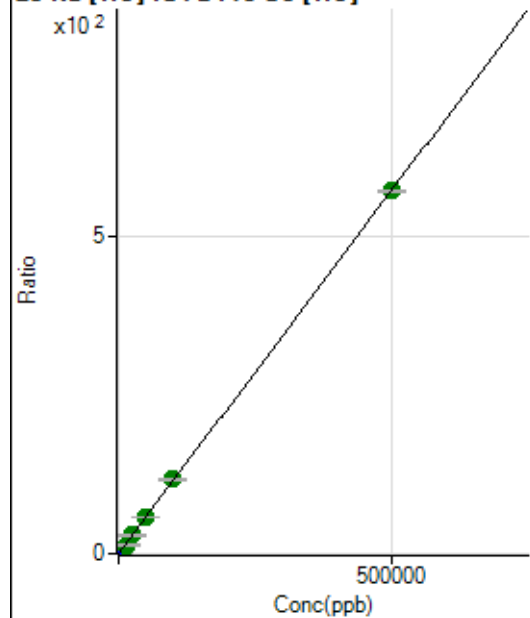
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			2470564.81		A	2.9
2	☐			2472479.07		A	1.9
3	☐			2616797.43		A	0.8
4	☐			2559274.56		A	0.7
5	☐			2765860.81		A	2.8
6	☐			2990168.92		A	2.6
7	☐			3104420.34		A	3.6
8	☐			2925666.84		A	3.3

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			29972.81		P	1.6
2	☐			30312.33		P	2.7
3	☐			32082.96		P	2.1
4	☐			31231.07		P	1.5
5	☐			34271.01		P	0.6
6	☐			39035.88		P	0.8
7	☐			40774.00		P	1.7
8	☐			41567.68		P	1.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	18367.49	0.1329	P	2.5
2	☐	500.000	475.267	93278.52	0.6783	P	2.1
3	☐	5000.000	5097.212	809884.86	5.9821	P	1.2
4	☐	12500.000	11673.211	1911317.99	13.5281	A	3.9
5	☐	25000.000	25109.129	3852611.93	28.9460	A	1.2
6	☐	50000.000	50704.555	7671753.04	58.3171	A	0.6
7	☐	100000.00	101950.69	15265140.44	117.1227	A	2.8
8	☐	500000.00	499553.67	74090523.18	573.3773	A	0.7

$$y = 0.0011 * x + 0.1329$$

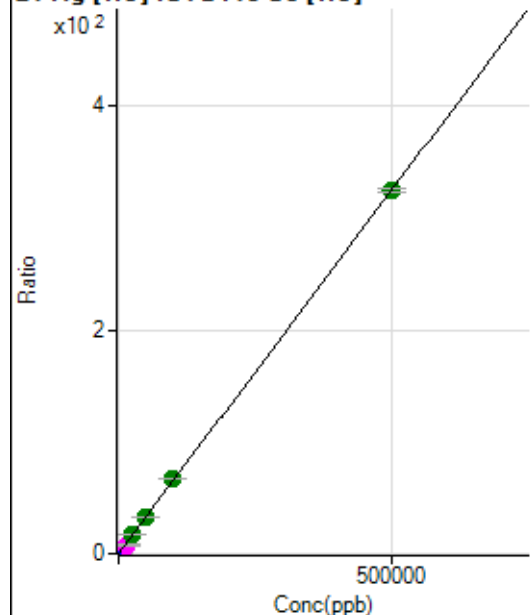
$$R = 1.0000$$

$$DL = 8.539$$

$$BEC = 115.9$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	319.46	0.0023	P	13.9
2	☐	500.000	470.938	42328.90	0.3078	P	2.0
3	☐	5000.000	5140.726	451780.98	3.3370	P	2.0
4	☐	12500.000	11845.854	1086065.50	7.6864	M	3.0
5	☐	25000.000	25463.959	2198758.38	16.5202	A	0.5
6	☐	50000.000	50492.625	4309239.03	32.7556	A	0.8
7	☐	100000.00	103007.21	8708006.62	66.8206	A	0.3
8	☐	500000.00	499341.07	41855319.34	323.9127	A	1.1

$$y = 6.4868\text{E-}004 * x + 0.0023$$

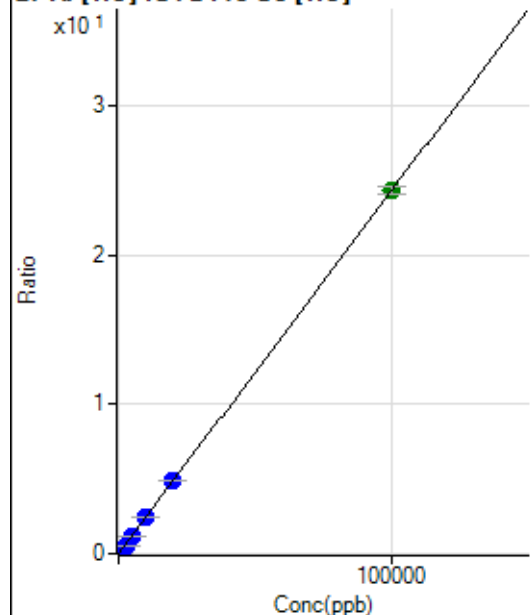
$$R = 1.0000$$

$$DL = 1.487$$

$$BEC = 3.563$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	42.50	0.0003	P	35.9
2	☐	20.000	20.162	715.76	0.0052	P	1.4
3	☐	1000.000	1009.937	33251.51	0.2456	P	1.5
4	☐	2500.000	2318.037	79604.87	0.5633	P	1.4
5	☐	5000.000	4957.682	160314.48	1.2045	P	0.2
6	☐	10000.000	10046.696	321059.98	2.4406	P	0.1
7	☐	20000.000	20077.478	635538.44	4.8769	P	0.4
8	☐	100000.00	99986.400	3138049.23	24.2861	A	2.3

$$y = 2.4289\text{E-}004 * x + 3.0778\text{E-}004$$

$$R = 1.0000$$

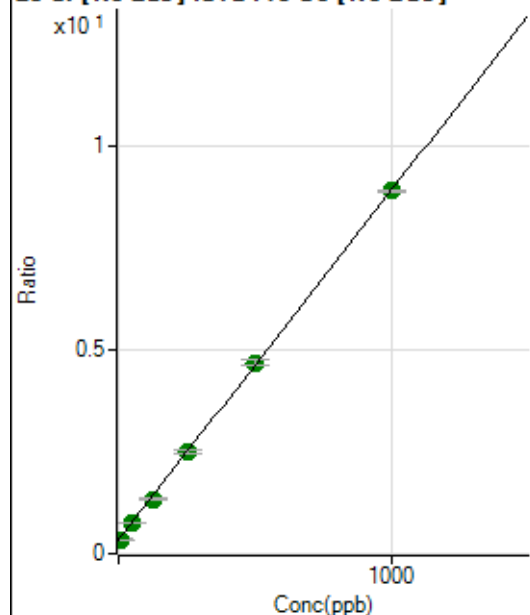
$$DL = 1.365$$

$$BEC = 1.267$$

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	1279616.91	0.3440	A	8.0
2	☐	10.000	-2.337	1258253.49	0.3239	A	1.2
3	☐	50.000	48.075	2900026.28	0.7565	A	5.0
4	☐	125.000	114.542	5340895.91	1.3268	A	3.3
5	☐	250.000	251.529	9747714.11	2.5022	A	2.0
6	☐	500.000	506.795	18235496.94	4.6925	A	3.1
7	☐	1000.000	997.747	33434921.58	8.9050	A	0.6
8	☐			2388003.72	0.6433	A	4.5

$$y = 0.0086 * x + 0.3440$$

$$R = 0.9999$$

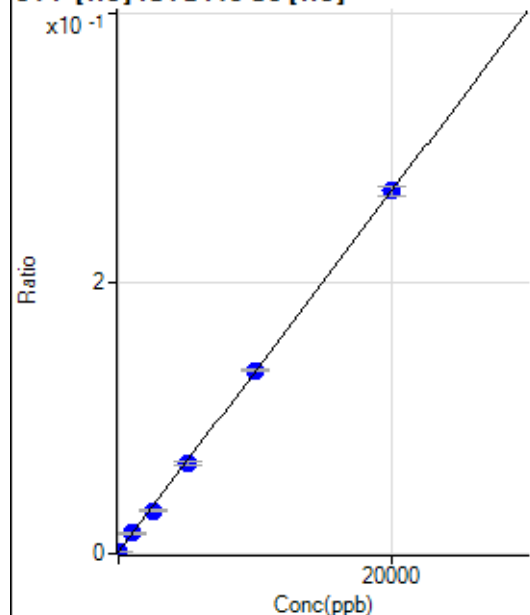
$$DL = 9.661$$

$$BEC = 40.09$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-1.724	161.12	0.0012	P	34.5
2	☐	0.000	1.724	166.67	0.0012	P	10.3
3	☐	1000.000	1050.566	2061.32	0.0152	P	6.8
4	☐	2500.000	2274.434	4461.91	0.0316	P	3.8
5	☐	5000.000	4961.445	8980.85	0.0675	P	4.3
6	☐	10000.000	10065.325	17850.30	0.1357	P	1.5
7	☐	20000.000	20002.644	34981.78	0.2685	P	2.9
8	☐			227.79	0.0018	P	26.8

$$y = 1.3362E-005 * x + 0.0012$$

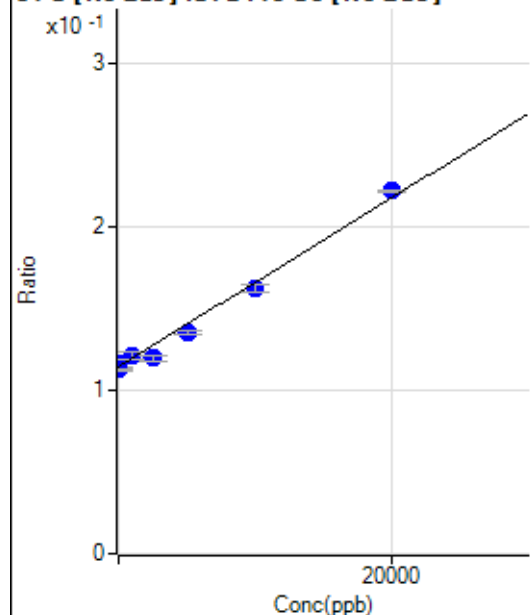
$$R = 0.9999$$

$$DL = 59.25$$

$$BEC = 89$$

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	396.374	434822.31	0.1168	P	4.6
2	☐	0.000	-396.374	437651.37	0.1127	P	1.1
3	☐	1000.000	1214.065	463920.58	0.1210	P	4.1
4	☐	2500.000	961.103	481826.40	0.1197	P	2.5
5	☐	5000.000	4014.652	527661.85	0.1355	P	1.6
6	☐	10000.000	9218.230	630992.37	0.1624	P	3.1
7	☐	20000.000	20818.881	834797.16	0.2223	P	0.4
8	☐			396394.20	0.1068	P	1.6

$$y = 5.1694\text{E-}006 * x + 0.1147$$

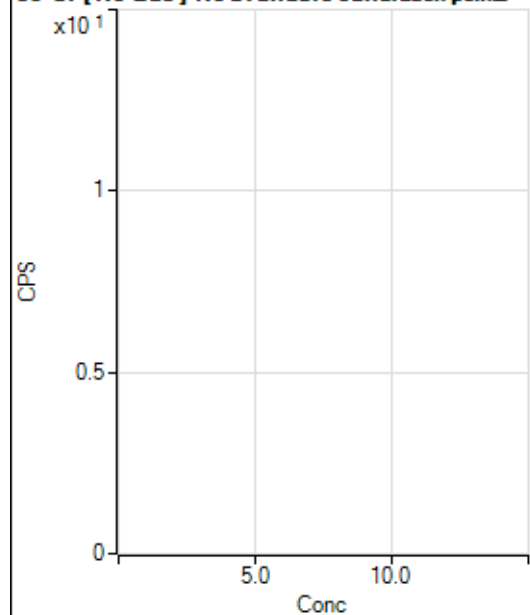
$$R = 0.9946$$

$$DL = 1927$$

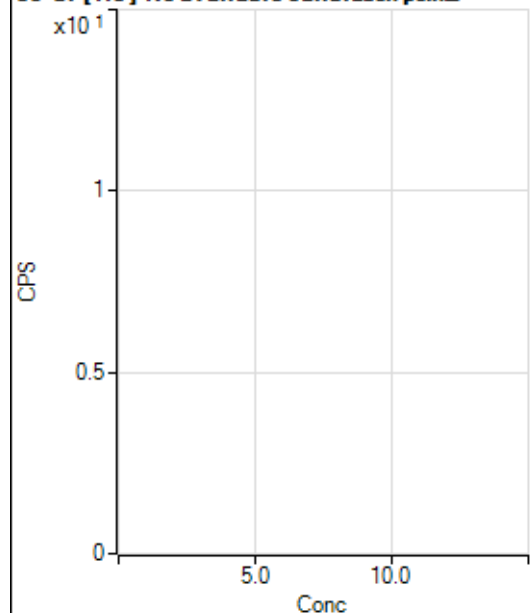
$$BEC = 2.219\text{E}+04$$

Weight: <None>

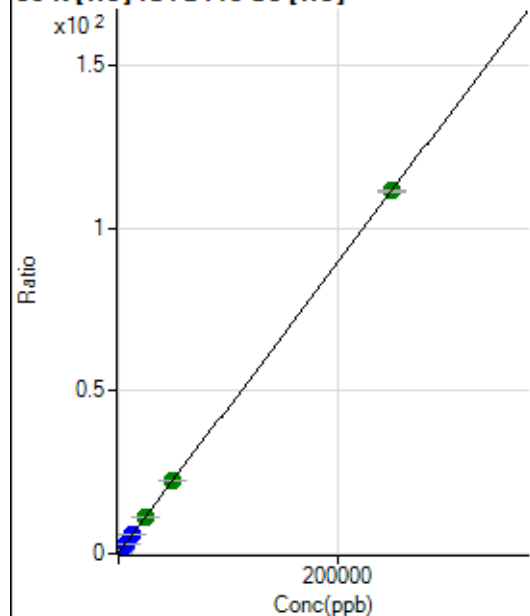
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			99063.12		P	0.5
2	☐			95710.46		P	0.7
3	☐			104693.72		P	1.0
4	☐			102036.45		P	1.5
5	☐			105852.30		P	1.6
6	☐			109140.00		P	1.2
7	☐			109677.96		P	1.3
8	☐			112650.34		P	1.2

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			669.48		P	16.9
2	☐			552.81		P	7.7
3	☐			644.47		P	18.5
4	☐			508.36		P	14.8
5	☐			627.81		P	15.3
6	☐			636.14		P	11.1
7	☐			622.25		P	4.7
8	☐			736.15		P	9.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	30802.81	0.2230	P	3.8
2	☐	500.000	467.932	59291.59	0.4312	P	0.7
3	☐	2500.000	2487.031	179981.63	1.3294	P	0.7
4	☐	6250.000	5736.939	392142.49	2.7752	P	2.7
5	☐	12500.000	12383.304	762947.67	5.7321	P	0.8
6	☐	25000.000	25075.860	1496803.89	11.3788	A	1.1
7	☐	50000.000	50024.307	2929510.50	22.4779	A	1.9
8	☐	250000.00	250006.40	14401057.96	111.4463	A	0.7

$$y = 4.4488\text{E-}004 * x + 0.2230$$

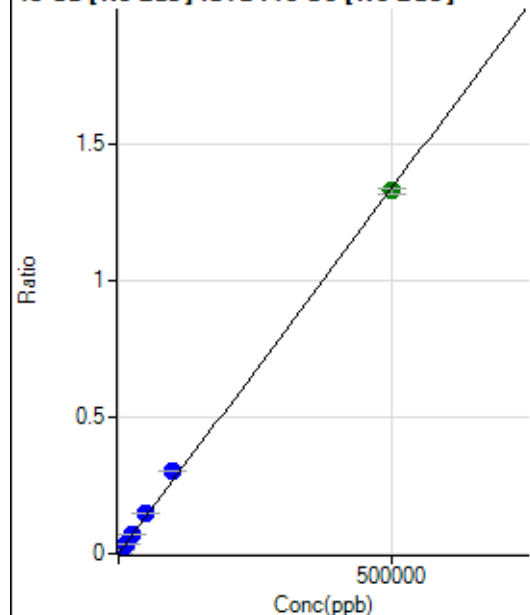
$$R = 1.0000$$

$$DL = 57.17$$

$$BEC = 501.2$$

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	133.73	0.0000	P	2.1
2	☐	500.000	487.010	5196.97	0.0013	P	1.0
3	☐	5000.000	5639.069	57924.97	0.0151	P	5.0
4	☐	12500.000	13036.120	140417.39	0.0349	P	3.2
5	☐	25000.000	27375.005	285193.95	0.0732	P	1.1
6	☐	50000.000	55309.543	574662.02	0.1479	P	3.2
7	☐	100000.00	113485.68	1139083.96	0.3034	P	0.9
8	☐	500000.00	496633.37	4928434.99	1.3275	A	1.7

$$y = 2.6730\text{E-}006 * x + 3.5882\text{E-}005$$

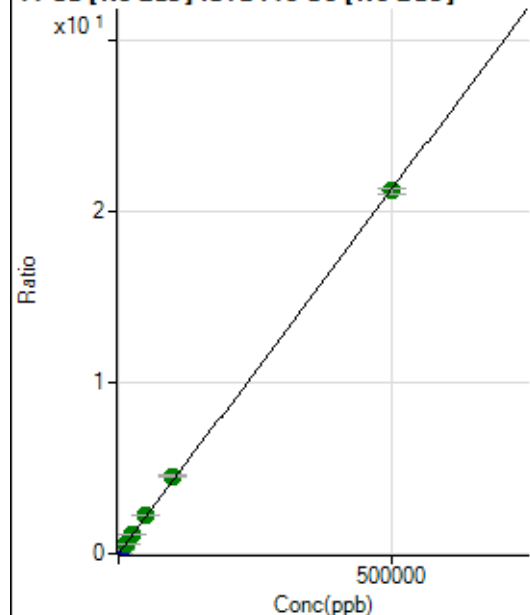
$$R = 0.9996$$

$$DL = 0.8334$$

$$BEC = 13.42$$

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	13768.62	0.0037	P	6.2
2	☐	500.000	479.862	93794.93	0.0241	P	1.0
3	☐	5000.000	5446.398	904089.20	0.2358	P	3.9
4	☐	12500.000	12697.568	2193705.76	0.5447	A	1.1
5	☐	25000.000	26475.089	4409448.67	1.1318	A	2.1
6	☐	50000.000	52596.133	8722968.60	2.2447	A	3.3
7	☐	100000.00	106726.60	17087997.98	4.5511	A	0.8
8	☐	500000.00	498311.92	78838458.65	21.2359	A	1.7

$$y = 4.2608\text{E-}005 * x + 0.0037$$

$$R = 0.9999$$

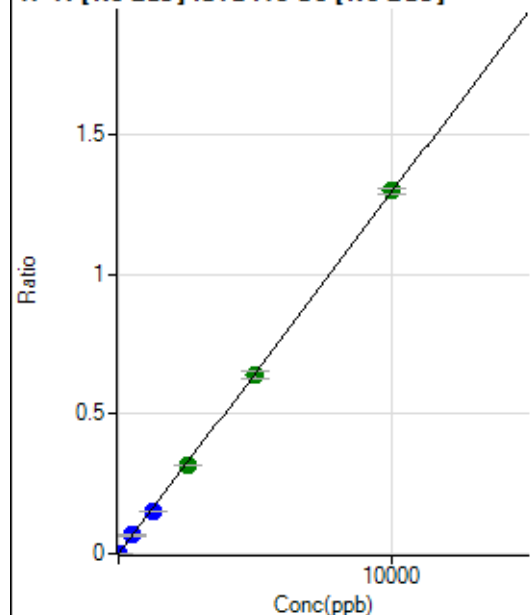
$$DL = 16.11$$

$$BEC = 86.81$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	150.01	0.0000	P	35.4
2	☐	5.000	4.440	2389.16	0.0006	P	7.8
3	☐	500.000	512.288	254451.63	0.0663	P	3.2
4	☐	1250.000	1172.978	611347.49	0.1518	P	2.8
5	☐	2500.000	2437.502	1229058.40	0.3155	A	0.7
6	☐	5000.000	4965.031	2496935.77	0.6426	A	4.0
7	☐	10000.000	10042.123	4879438.48	1.2997	A	1.8
8	☐			963.96	0.0003	P	17.9

$$y = 1.2942\text{E-}004 * x + 4.0604\text{E-}005$$

$$R = 0.9999$$

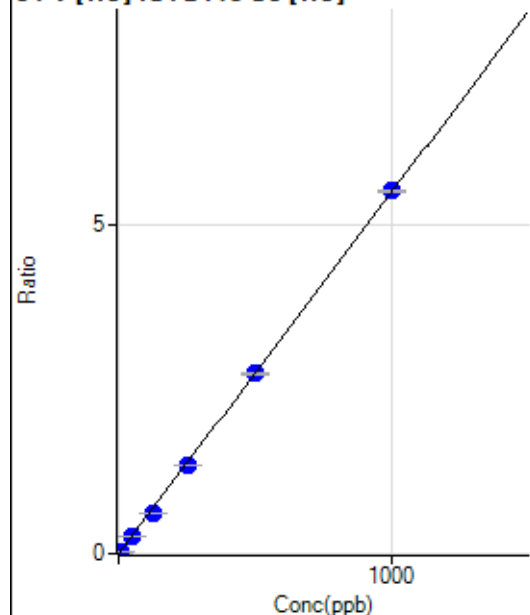
$$DL = 0.3329$$

$$BEC = 0.3137$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	0.7
2	☐	5.000	4.874	3686.07	0.0268	P	3.3
3	☐	50.000	48.741	36234.74	0.2676	P	1.3
4	☐	125.000	112.888	87581.55	0.6198	P	1.9
5	☐	250.000	243.818	178166.35	1.3386	P	0.1
6	☐	500.000	498.360	359908.64	2.7361	P	1.0
7	☐	1000.000	1003.943	718257.90	5.5117	P	0.5
8	☐			232.23	0.0018	P	8.5

$$y = 0.0055 * x + 4.8282\text{E-}005$$

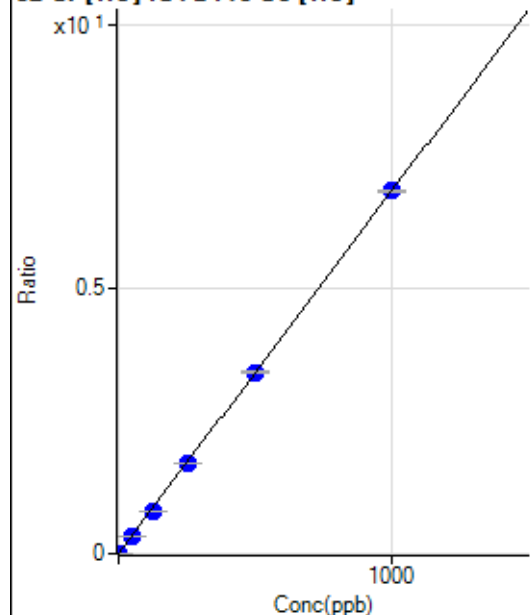
$$R = 0.9999$$

$$DL = 0.0001845$$

$$BEC = 0.008794$$

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	468.90	0.0034	P	7.5
2	☐	2.000	1.879	2234.64	0.0163	P	3.9
3	☐	50.000	49.363	46183.27	0.3411	P	1.5
4	☐	125.000	115.509	112155.19	0.7937	P	1.6
5	☐	250.000	248.763	226979.66	1.7054	P	0.7
6	☐	500.000	500.837	451185.72	3.4301	P	1.6
7	☐	1000.000	1001.109	893042.55	6.8529	P	0.3
8	☐			7273.03	0.0563	P	2.6

$$y = 0.0068 * x + 0.0034$$

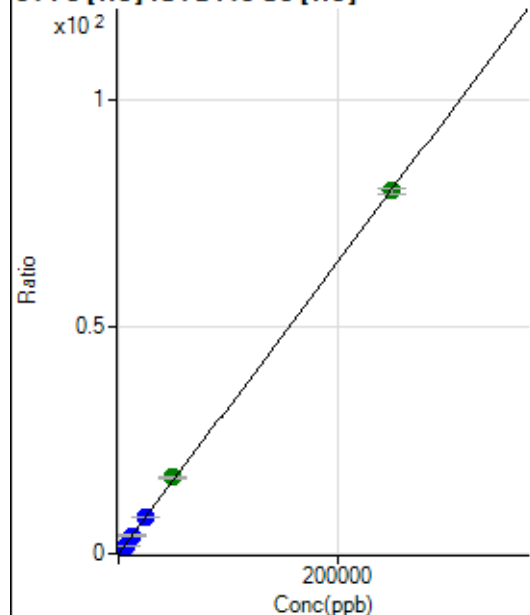
$$R = 1.0000$$

$$DL = 0.1112$$

$$BEC = 0.4962$$

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	483.35	0.0035	P	5.8
2	☐	50.000	49.349	2657.70	0.0193	P	5.6
3	☐	2500.000	2547.792	111103.37	0.8207	P	1.7
4	☐	6250.000	5888.232	267392.13	1.8921	P	0.8
5	☐	12500.000	12537.082	535631.34	4.0246	P	1.6
6	☐	25000.000	25332.185	1069299.70	8.1285	P	0.3
7	☐	50000.000	52493.079	2194425.58	16.8401	A	2.1
8	☐	250000.00	249474.87	10340195.37	80.0198	A	1.4

$$y = 3.2074E-004 * x + 0.0035$$

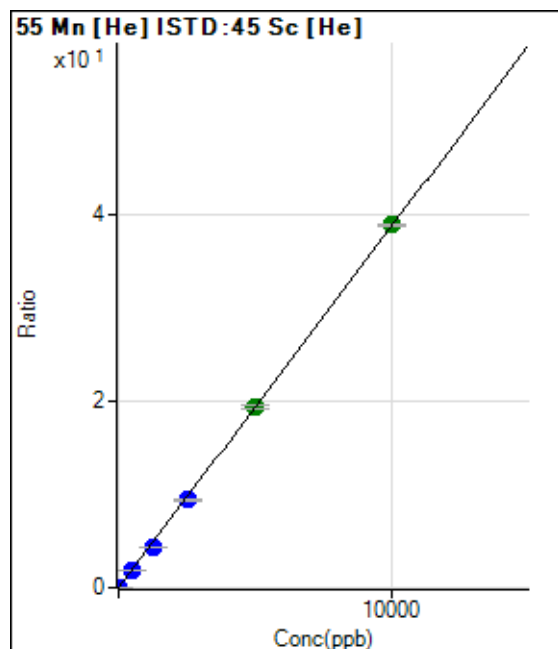
$$R = 0.9999$$

$$DL = 1.894$$

$$BEC = 10.91$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	26.67	0.0002	P	50.3
2	☐	1.000	0.955	534.46	0.0039	P	9.0
3	☐	500.000	488.864	255855.98	1.8899	P	1.5
4	☐	1250.000	1120.055	611877.13	4.3298	P	0.8
5	☐	2500.000	2426.639	1248431.51	9.3804	P	1.3
6	☐	5000.000	4993.790	2539029.11	19.3037	A	2.5
7	☐	10000.000	10038.245	5056529.75	38.8030	A	0.7
8	☐			2439.12	0.0189	P	3.6

$$y = 0.0039 * x + 1.9337E-004$$

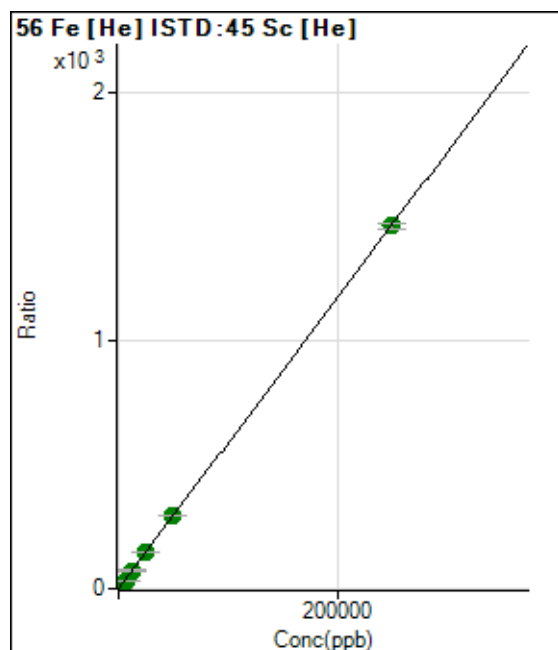
$$R = 0.9999$$

$$DL = 0.07551$$

$$BEC = 0.05002$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2355.79	0.0171	P	5.0
2	☐	50.000	47.676	40680.33	0.2958	P	0.5
3	☐	2500.000	2568.116	2035278.93	15.0335	A	0.8
4	☐	6250.000	5875.637	4857212.20	34.3734	A	1.6
5	☐	12500.000	12520.641	9745886.68	73.2284	A	1.4
6	☐	25000.000	25041.641	19262922.19	146.4418	A	1.4
7	☐	50000.000	50887.468	38778915.68	297.5689	A	0.3
8	☐	250000.00	249825.98	188767576.4	1,460.812	A	1.3

$$y = 0.0058 * x + 0.0171$$

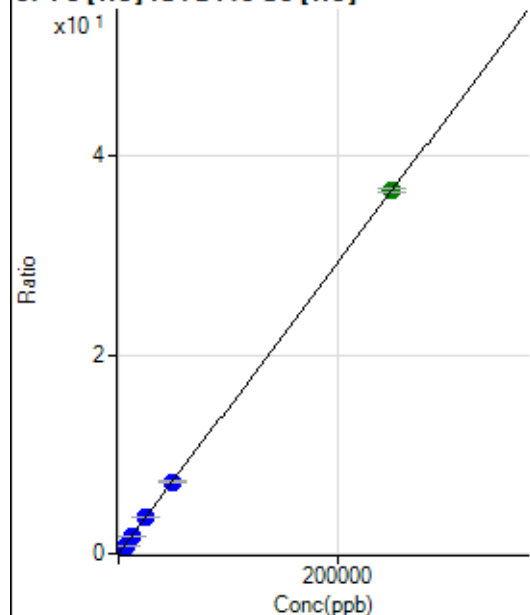
$$R = 1.0000$$

$$DL = 0.437$$

$$BEC = 2.916$$

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	146.30	0.0011	P	32.4
2	☐	50.000	46.806	1085.24	0.0079	P	6.6
3	☐	2500.000	2483.066	49207.16	0.3635	P	0.7
4	☐	6250.000	5723.764	118186.48	0.8364	P	2.8
5	☐	12500.000	12311.014	239282.17	1.7979	P	0.8
6	☐	25000.000	24916.521	478514.14	3.6376	P	0.7
7	☐	50000.000	49591.102	943377.99	7.2389	P	0.6
8	☐	250000.00	250112.90	4717121.46	36.5050	A	1.0

$$y = 1.4595\text{E-}004 * x + 0.0011$$

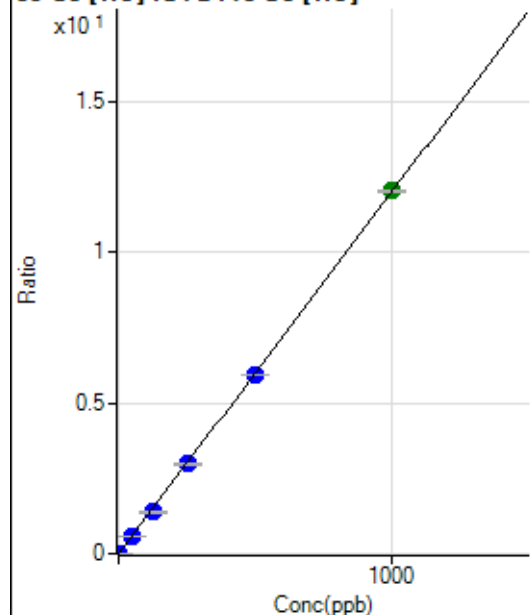
$$R = 1.0000$$

$$DL = 7.054$$

$$BEC = 7.264$$

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	40.00	0.0003	P	24.3
2	☐	1.000	0.980	1654.56	0.0120	P	4.2
3	☐	50.000	50.370	81708.44	0.6035	P	0.3
4	☐	125.000	114.998	194645.54	1.3775	P	2.1
5	☐	250.000	247.561	394638.79	2.9651	P	0.5
6	☐	500.000	495.645	780925.51	5.9362	P	0.4
7	☐	1000.000	1004.019	1567036.24	12.0245	A	0.7
8	☐			1476.76	0.0114	P	5.1

$$y = 0.0120 * x + 2.8923\text{E-}004$$

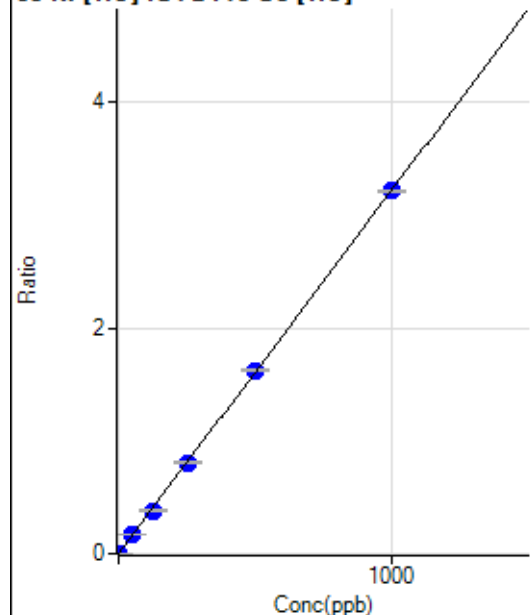
$$R = 0.9999$$

$$DL = 0.01763$$

$$BEC = 0.02415$$

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	112.22	0.0008	P	16.5
2	☐	1.000	0.931	523.35	0.0038	P	4.6
3	☐	50.000	50.949	22286.48	0.1646	P	1.0
4	☐	125.000	117.823	53637.55	0.3796	P	3.4
5	☐	250.000	250.862	107450.22	0.8074	P	1.5
6	☐	500.000	503.057	212862.02	1.6182	P	1.1
7	☐	1000.000	999.106	418710.82	3.2130	P	0.9
8	☐			1396.75	0.0108	P	4.8

$$y = 0.0032 * x + 8.1243E-004$$

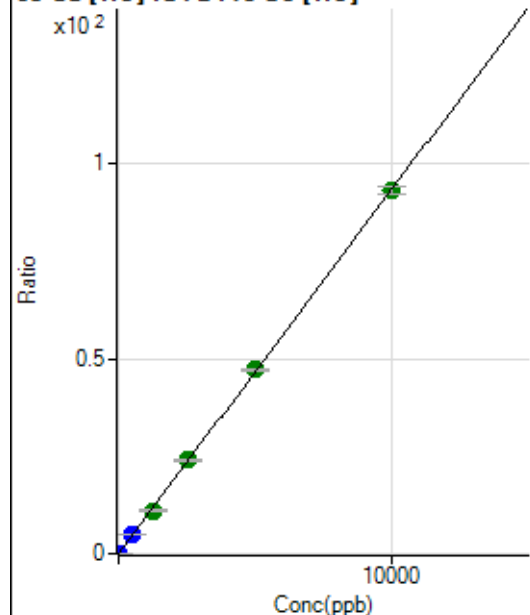
$$R = 1.0000$$

$$DL = 0.1253$$

$$BEC = 0.2527$$

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	521.13	0.0038	P	5.2
2	☐	2.000	1.922	2983.68	0.0217	P	4.3
3	☐	500.000	511.338	646159.13	4.7728	P	1.2
4	☐	1250.000	1178.806	1554069.21	10.9980	A	2.6
5	☐	2500.000	2563.660	3182741.37	23.9139	A	1.7
6	☐	5000.000	5049.818	6196157.89	47.1012	A	0.9
7	☐	10000.000	9967.509	12114196.49	92.9664	A	1.9
8	☐			2753.64	0.0213	P	5.7

$$y = 0.0093 * x + 0.0038$$

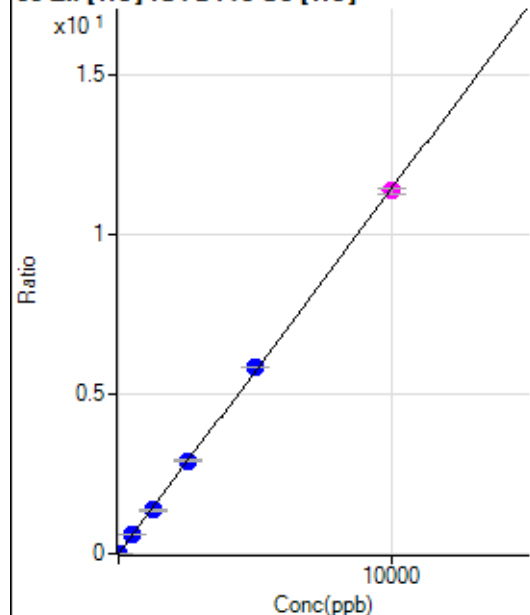
$$R = 0.9999$$

$$DL = 0.06312$$

$$BEC = 0.4045$$

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	71.11	0.0005	P	26.1
2	☐	2.000	2.019	387.79	0.0028	P	16.5
3	☐	500.000	521.541	80718.50	0.5962	P	1.0
4	☐	1250.000	1188.921	191953.72	1.3585	P	2.4
5	☐	2500.000	2539.528	386109.80	2.9011	P	2.0
6	☐	5000.000	5104.991	767112.66	5.8313	P	0.3
7	☐	10000.000	9944.180	1480136.69	11.3585	M	1.4
8	☐			4259.58	0.0330	P	5.9

$$y = 0.0011 * x + 5.1489E-004$$

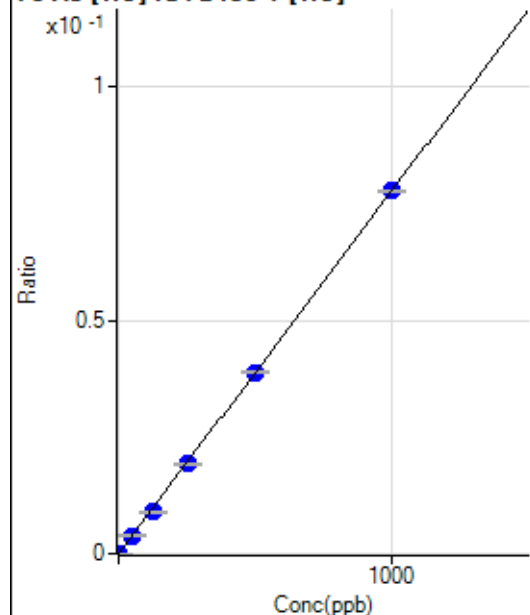
$$R = 0.9999$$

$$DL = 0.3529$$

$$BEC = 0.4508$$

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	4.67	0.0000	P	49.7
2	☐	1.000	0.892	86.34	0.0001	P	13.3
3	☐	50.000	50.246	4569.54	0.0039	P	2.6
4	☐	125.000	114.723	10893.96	0.0089	P	3.3
5	☐	250.000	247.579	22125.83	0.0192	P	1.4
6	☐	500.000	501.392	44538.92	0.0389	P	1.0
7	☐	1000.000	1001.182	88040.32	0.0778	P	0.5
8	☐			17.67	0.0000	P	42.8

$$y = 7.7671E-005 * x + 3.9713E-006$$

$$R = 0.9999$$

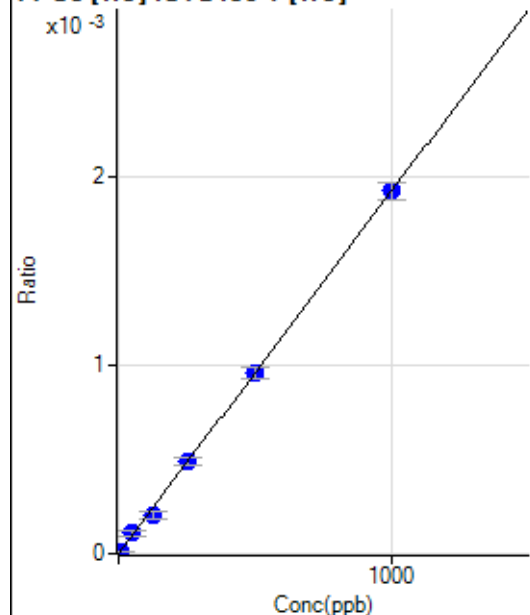
$$DL = 0.0763$$

$$BEC = 0.05113$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.875	13.34	0.0000	P	43.0
3	☐	50.000	55.714	125.56	0.0001	P	28.3
4	☐	125.000	105.214	247.78	0.0002	P	17.1
5	☐	250.000	256.457	567.79	0.0005	P	8.1
6	☐	500.000	499.656	1100.05	0.0010	P	5.8
7	☐	1000.000	1000.741	2181.30	0.0019	P	4.4
8	☐			4.45	0.0000	P	86.6

$$y = 1.9254\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9997$$

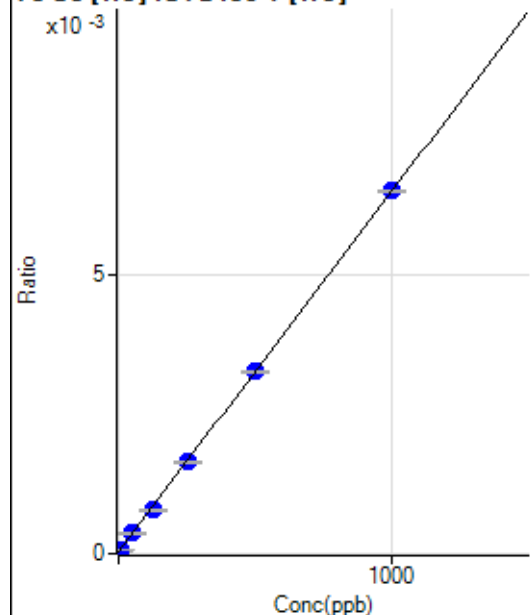
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	42.33	0.0000	P	11.5
2	☐	5.000	4.654	77.68	0.0001	P	8.6
3	☐	50.000	50.705	424.38	0.0004	P	7.1
4	☐	125.000	115.076	950.13	0.0008	P	4.5
5	☐	250.000	249.039	1887.65	0.0016	P	2.7
6	☐	500.000	499.250	3720.88	0.0033	P	1.0
7	☐	1000.000	1001.822	7350.67	0.0065	P	0.2
8	☐			43.00	0.0000	P	18.8

$$y = 6.4451\text{E-}006 * x + 3.5960\text{E-}005$$

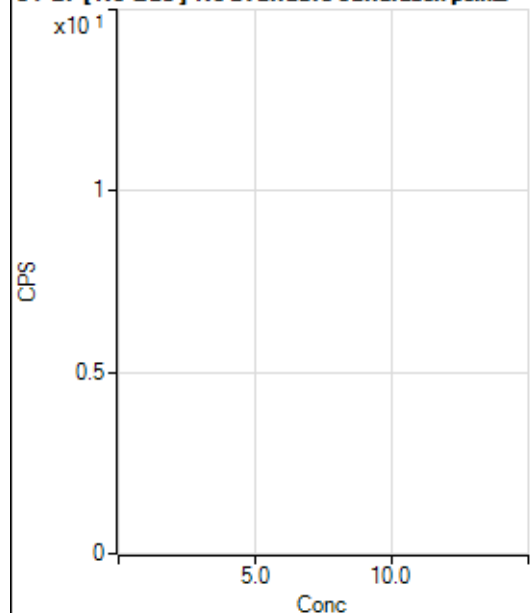
$$R = 0.9999$$

$$DL = 1.931$$

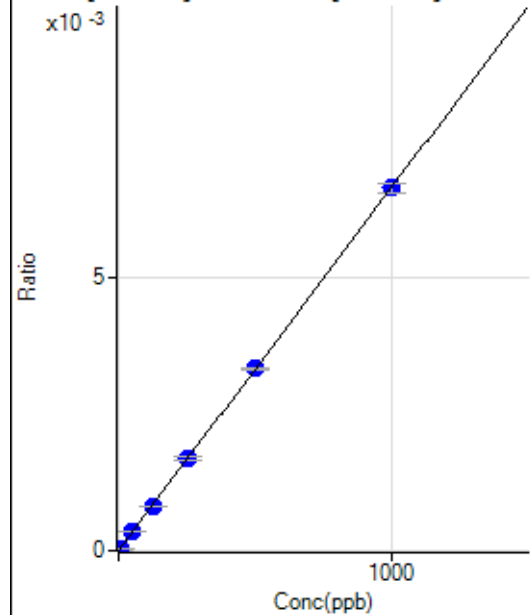
$$BEC = 5.579$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			26336.60		P	2.6
2	☐			26514.47		P	1.3
3	☐			26406.19		P	2.6
4	☐			25198.49		P	2.9
5	☐			25028.66		P	2.0
6	☐			24675.24		P	3.8
7	☐			24781.05		P	3.1
8	☐			25401.45		P	1.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	24.17	0.0000	P	102.
2	☐	5.000	4.683	330.80	0.0000	P	8.2
3	☐	50.000	50.382	3325.87	0.0003	P	1.1
4	☐	125.000	120.424	8113.97	0.0008	P	1.5
5	☐	250.000	252.881	16397.76	0.0017	P	4.2
6	☐	500.000	500.936	32953.22	0.0033	P	0.4
7	☐	1000.000	999.366	64727.61	0.0066	P	2.4
8	☐			77.07	0.0000	P	34.8

$$y = 6.6274E-006 * x + 2.6403E-006$$

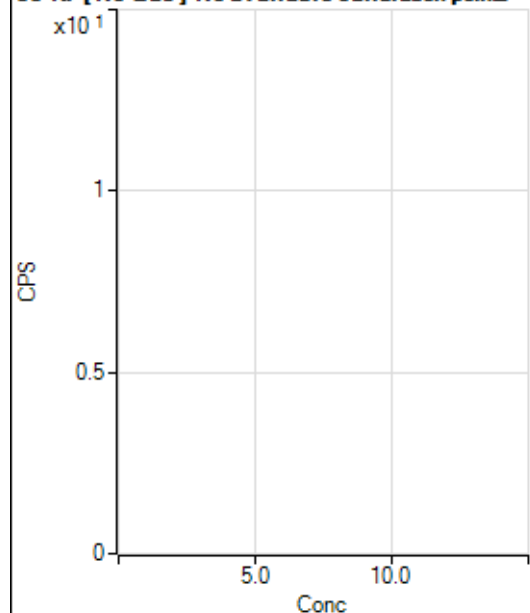
$$R = 1.0000$$

$$DL = 1.226$$

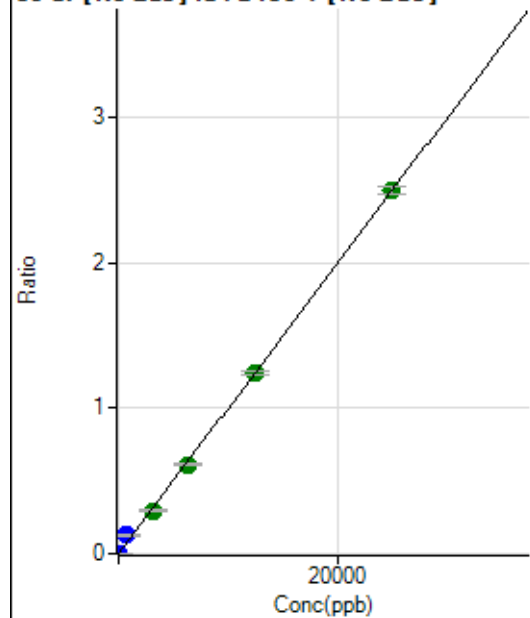
$$BEC = 0.3984$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			241.64		P	8.0
2	☐			217.89		P	6.3
3	☐			216.64		P	6.4
4	☐			218.73		P	7.4
5	☐			202.06		P	8.2
6	☐			233.72		P	9.3
7	☐			220.39		P	3.6
8	☐			206.23		P	5.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	363.90	0.0000	P	20.0
2	☐	1.000	1.018	1375.11	0.0001	P	6.3
3	☐	625.000	1265.977	1246968.11	0.1262	P	2.5
4	☐	3125.000	2948.474	2977067.69	0.2939	A	4.0
5	☐	6250.000	6148.447	5987796.14	0.6129	A	3.3
6	☐	12500.000	12494.956	12352485.52	1.2454	A	1.7
7	☐	25000.000	25033.952	24375679.54	2.4952	A	2.1
8	☐			6929.67	0.0007	P	5.0

$$y = 9.9669\text{E-}005 * x + 3.8655\text{E-}005$$

$$R = 0.9996$$

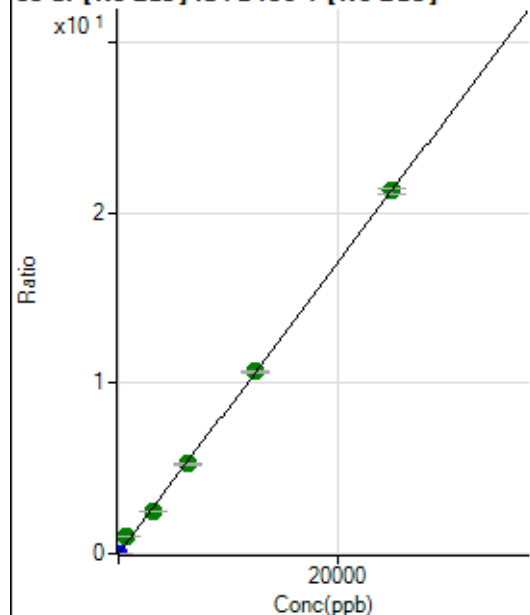
$$DL = 0.2331$$

$$BEC = 0.3878$$

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	88.89	0.0000	P	17.8
2	☐	1.000	1.014	8558.44	0.0009	P	4.4
3	☐	625.000	1233.798	10377318.55	1.0503	A	2.0
4	☐	3125.000	2900.155	25011911.67	2.4688	A	2.8
5	☐	6250.000	6172.739	51344726.15	5.2546	A	2.9
6	☐	12500.000	12531.844	105811721.8	10.6679	A	0.6
7	☐	25000.000	25016.279	208048343.5	21.2954	A	1.7
8	☐			58417.67	0.0062	P	7.2

$$y = 8.5126E-004 * x + 9.4202E-006$$

$$R = 0.9996$$

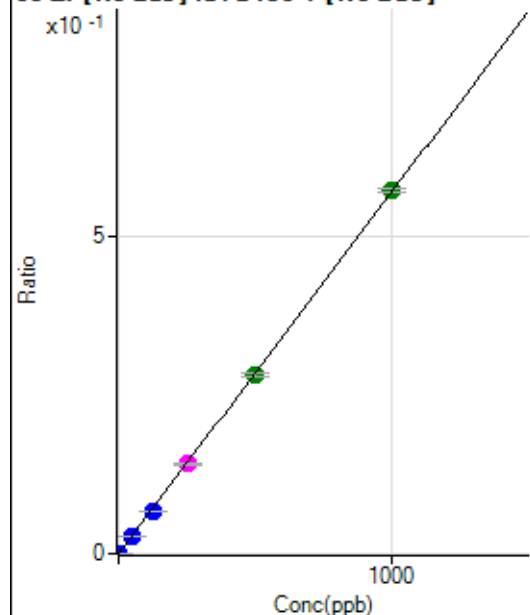
$$DL = 0.005915$$

$$BEC = 0.01107$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	313.90	0.0000	P	13.4
2	☐	1.000	0.945	5606.83	0.0006	P	3.0
3	☐	50.000	49.452	278599.51	0.0282	P	3.2
4	☐	125.000	117.293	677231.88	0.0668	P	3.1
5	☐	250.000	247.543	1377943.32	0.1410	M	4.0
6	☐	500.000	495.477	2799756.83	0.2823	A	1.4
7	☐	1000.000	1003.867	5587424.43	0.5719	A	0.9
8	☐			1375.10	0.0001	P	8.8

$$y = 5.6964E-004 * x + 3.3097E-005$$

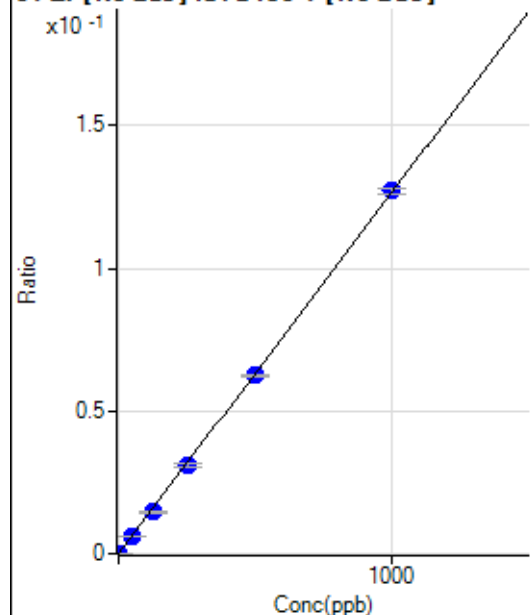
$$R = 1.0000$$

$$DL = 0.02341$$

$$BEC = 0.0581$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	52.78	0.0000	P	51.7
2	☐	1.000	1.035	1336.22	0.0001	P	10.0
3	☐	50.000	48.529	60674.43	0.0061	P	1.0
4	☐	125.000	116.143	148790.09	0.0147	P	3.1
5	☐	250.000	244.300	301762.66	0.0309	P	3.3
6	☐	500.000	494.944	620524.93	0.0626	P	1.1
7	☐	1000.000	1005.134	1241259.90	0.1271	P	1.8
8	☐			297.23	0.0000	P	21.2

$$y = 1.2640\text{E-}004 * x + 5.4789\text{E-}006$$

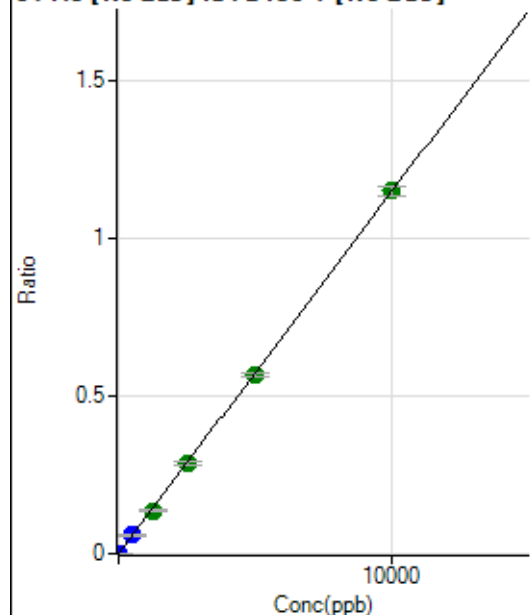
$$R = 0.9999$$

$$DL = 0.06717$$

$$BEC = 0.04335$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94.45	0.0000	P	33.0
2	☐	5.000	5.434	6198.78	0.0006	P	3.1
3	☐	500.000	507.328	573984.15	0.0581	P	2.6
4	☐	1250.000	1180.569	1369066.80	0.1351	A	3.1
5	☐	2500.000	2501.769	2797416.14	0.2864	A	4.7
6	☐	5000.000	4954.134	5624483.98	0.5671	A	1.7
7	☐	10000.000	10030.803	11216586.71	1.1482	A	2.8
8	☐			2311.39	0.0002	P	16.3

$$y = 1.1447\text{E-}004 * x + 9.8880\text{E-}006$$

$$R = 1.0000$$

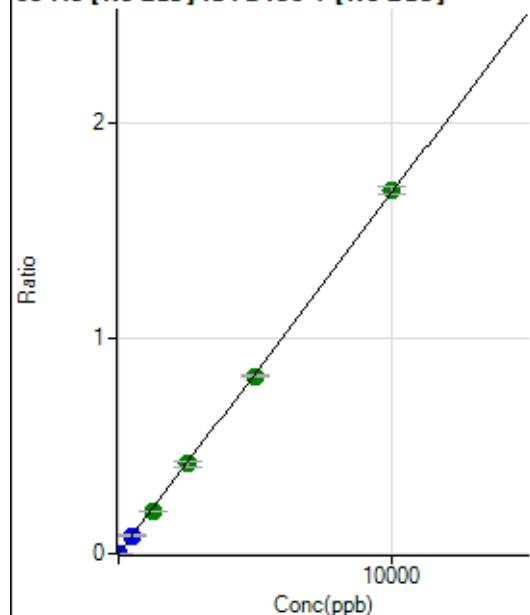
$$DL = 0.08556$$

$$BEC = 0.08638$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22.22	0.0000	P	48.7
2	☐	5.000	4.789	7908.01	0.0008	P	3.1
3	☐	500.000	502.441	833191.22	0.0843	P	3.2
4	☐	1250.000	1171.875	1992488.06	0.1967	A	2.9
5	☐	2500.000	2489.319	4080375.74	0.4178	A	5.2
6	☐	5000.000	4912.094	8176029.70	0.8244	A	1.4
7	☐	10000.000	10056.267	16488661.13	1.6878	A	2.1
8	☐			3158.80	0.0003	P	20.8

$$y = 1.6783\text{E-}004 * x + 2.3821\text{E-}006$$

$$R = 0.9999$$

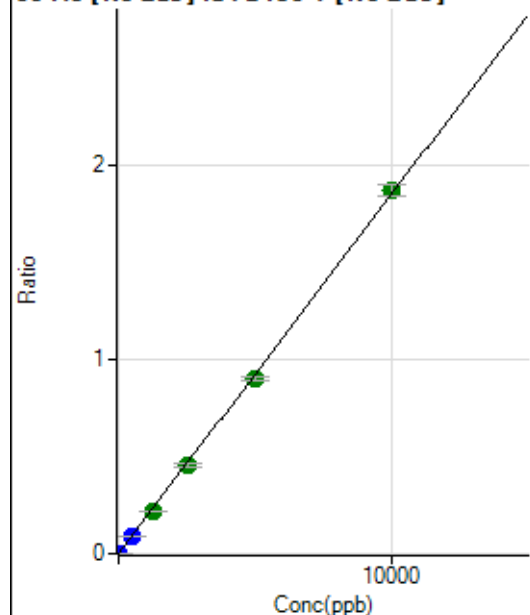
$$DL = 0.02074$$

$$BEC = 0.01419$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.89	0.0000	P	27.0
2	☐	5.000	4.625	8450.02	0.0009	P	1.3
3	☐	500.000	495.464	904310.58	0.0915	P	2.7
4	☐	1250.000	1174.404	2197682.54	0.2169	A	2.4
5	☐	2500.000	2452.524	4424287.95	0.4530	A	5.0
6	☐	5000.000	4862.019	8905087.79	0.8980	A	2.8
7	☐	10000.000	10090.536	18205229.40	1.8637	A	3.1
8	☐			5051.11	0.0005	P	14.4

$$y = 1.8470\text{E-}004 * x + 6.7535\text{E-}006$$

$$R = 0.9998$$

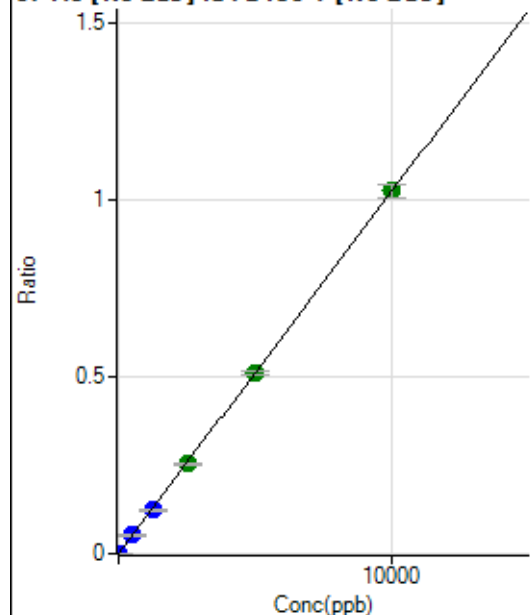
$$DL = 0.02966$$

$$BEC = 0.03657$$

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	22.22	0.0000	P	42.1
2	☐	5.000	4.725	4762.06	0.0005	P	5.6
3	☐	500.000	504.950	510249.03	0.0516	P	2.6
4	☐	1250.000	1199.058	1242537.71	0.1226	P	2.1
5	☐	2500.000	2471.552	2469387.79	0.2528	A	4.1
6	☐	5000.000	4985.609	5056636.53	0.5099	A	2.2
7	☐	10000.000	10020.428	10010649.62	1.0248	A	3.5
8	☐			2019.65	0.0002	P	21.1

$$y = 1.0228\text{E-}004 * x + 2.3409\text{E-}006$$

$$R = 1.0000$$

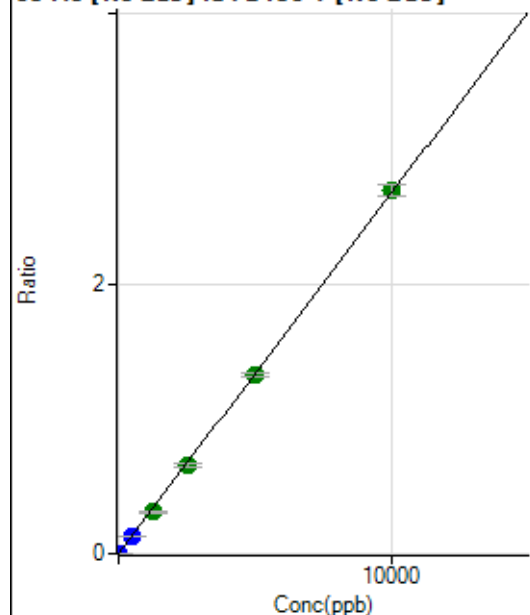
$$DL = 0.02891$$

$$BEC = 0.02289$$

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	19.45	0.0000	P	20.9
2	☐	5.000	4.706	12361.31	0.0013	P	2.1
3	☐	500.000	497.478	1313502.95	0.1329	P	2.0
4	☐	1250.000	1164.097	3150212.90	0.3111	A	5.7
5	☐	2500.000	2432.110	6347891.03	0.6499	A	5.0
6	☐	5000.000	4951.763	13122866.61	1.3232	A	1.6
7	☐	10000.000	10051.955	26238282.70	2.6861	A	3.3
8	☐			5202.00	0.0005	P	16.8

$$y = 2.6723\text{E-}004 * x + 2.0430\text{E-}006$$

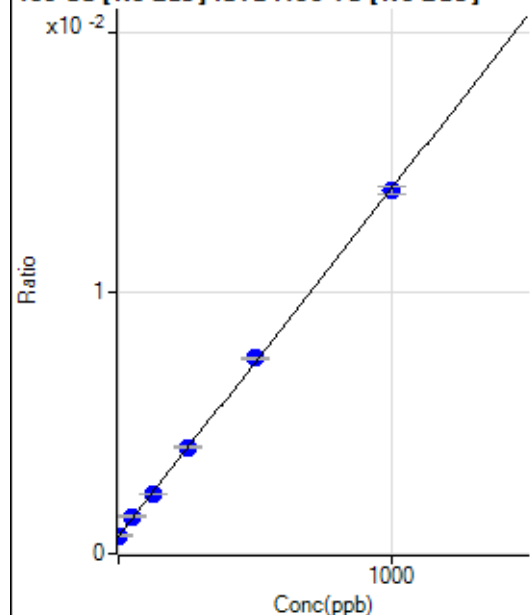
$$R = 0.9999$$

$$DL = 0.004782$$

$$BEC = 0.007645$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4345.25	0.0007	P	4.0
2	☐	1.000	1.693	4628.70	0.0007	P	2.9
3	☐	50.000	56.195	9395.13	0.0014	P	3.9
4	☐	125.000	121.567	15881.84	0.0023	P	1.2
5	☐	250.000	255.442	27519.77	0.0041	P	2.2
6	☐	500.000	511.197	51243.50	0.0075	P	0.6
7	☐	1000.000	993.159	94239.90	0.0139	P	2.1
8	☐			4717.59	0.0007	P	10.7

$$y = 1.3325\text{E-}005 * x + 6.7297\text{E-}004$$

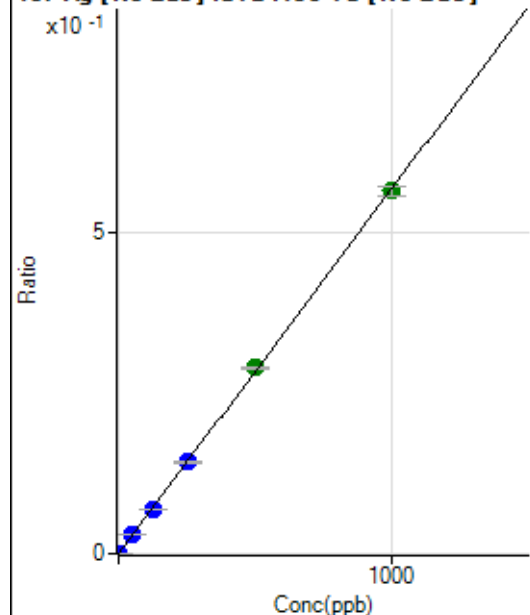
$$R = 0.9999$$

$$DL = 6.092$$

$$BEC = 50.51$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	75.00	0.0000	P	15.5
2	☐	1.000	0.961	3700.60	0.0006	P	7.2
3	☐	50.000	52.066	195110.10	0.0295	P	1.0
4	☐	125.000	120.975	474906.98	0.0686	P	3.1
5	☐	250.000	250.893	960102.41	0.1422	P	1.8
6	☐	500.000	510.222	1980169.25	0.2892	A	0.8
7	☐	1000.000	995.065	3822199.09	0.5640	A	2.7
8	☐			1805.88	0.0003	P	10.4

$$y = 5.6682\text{E-}004 * x + 1.1680\text{E-}005$$

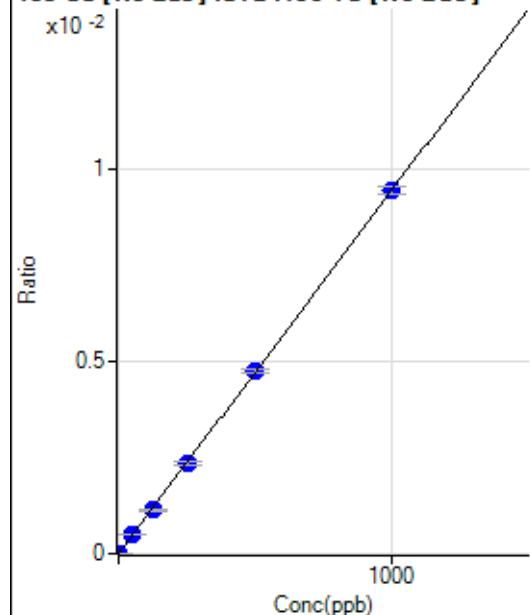
$$R = 0.9999$$

$$DL = 0.009581$$

$$BEC = 0.02061$$

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	18.06	0.0000	P	33.6
2	☐	1.000	0.988	80.56	0.0000	P	3.5
3	☐	50.000	54.466	3410.20	0.0005	P	2.3
4	☐	125.000	119.276	7799.53	0.0011	P	5.3
5	☐	250.000	249.065	15857.87	0.0023	P	2.6
6	☐	500.000	502.077	32397.88	0.0047	P	1.8
7	☐	1000.000	999.687	63837.84	0.0094	P	2.1
8	☐			70.83	0.0000	P	2.2

$$y = 9.4208\text{E-}006 * x + 2.7963\text{E-}006$$

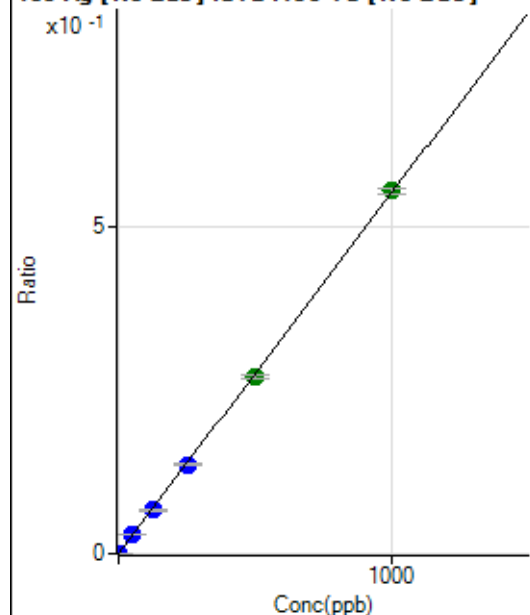
$$R = 1.0000$$

$$DL = 0.2996$$

$$BEC = 0.2968$$

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	16.67	0.0000	P	97.5
2	☐	1.000	1.037	3817.29	0.0006	P	0.8
3	☐	50.000	51.662	188025.04	0.0285	P	2.3
4	☐	125.000	120.243	458583.03	0.0662	P	3.4
5	☐	250.000	246.732	917330.48	0.1359	P	1.8
6	☐	500.000	491.029	1851153.51	0.2704	A	2.8
7	☐	1000.000	1005.814	3754353.03	0.5540	A	1.5
8	☐			1508.45	0.0002	P	5.9

$$y = 5.5076\text{E-}004 * x + 2.5907\text{E-}006$$

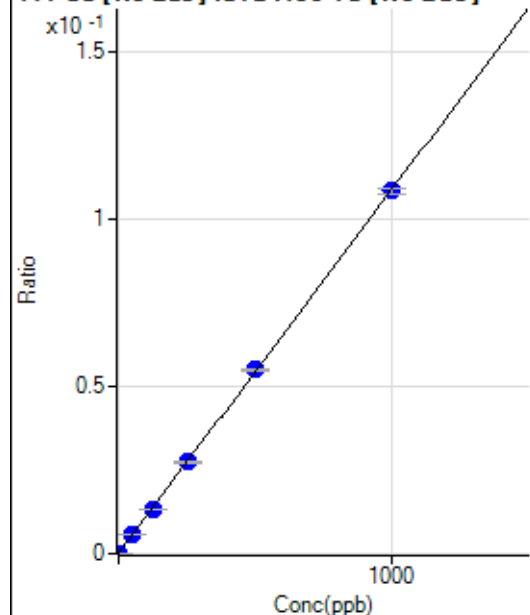
$$R = 0.9999$$

$$DL = 0.01376$$

$$BEC = 0.004704$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	867.52	0.0001	P	3.4
2	☐	1.000	1.039	1645.77	0.0002	P	4.6
3	☐	50.000	52.420	38520.75	0.0058	P	4.8
4	☐	125.000	120.983	91970.57	0.0133	P	3.2
5	☐	250.000	251.941	185719.09	0.0275	P	2.5
6	☐	500.000	504.693	376365.52	0.0550	P	1.9
7	☐	1000.000	997.550	735495.95	0.1085	P	1.9
8	☐			1234.23	0.0002	P	8.6

$$y = 1.0867\text{E-}004 * x + 1.3437\text{E-}004$$

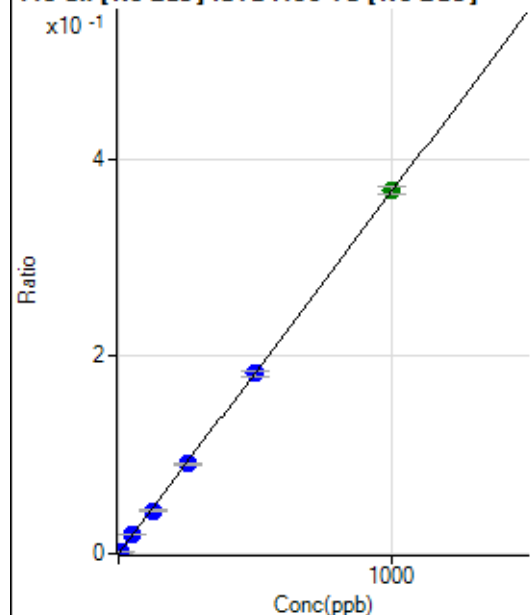
$$R = 1.0000$$

$$DL = 0.1278$$

$$BEC = 1.236$$

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	430.57	0.0001	P	15.8
2	☐	5.000	4.856	12283.63	0.0018	P	0.9
3	☐	50.000	51.226	124429.38	0.0188	P	2.0
4	☐	125.000	118.210	300308.83	0.0434	P	3.4
5	☐	250.000	248.243	614252.37	0.0910	P	2.3
6	☐	500.000	496.874	1246333.76	0.1821	P	2.5
7	☐	1000.000	1002.790	2489382.80	0.3674	A	2.1
8	☐			1536.24	0.0002	P	11.0

$$y = 3.6629\text{E-}004 * x + 6.6988\text{E-}005$$

$$R = 1.0000$$

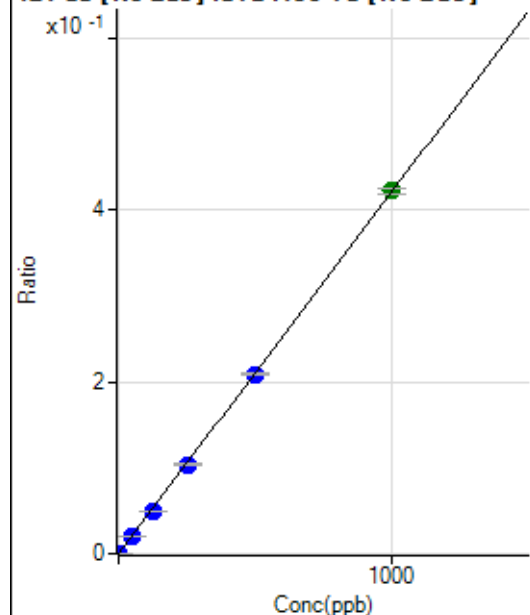
$$DL = 0.08661$$

$$BEC = 0.1829$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	48.7
2	☐	2.000	1.909	5362.30	0.0008	P	0.5
3	☐	50.000	50.260	139772.66	0.0211	P	0.5
4	☐	125.000	117.677	342896.09	0.0495	P	2.5
5	☐	250.000	245.480	697225.66	0.1033	P	1.6
6	☐	500.000	497.017	1431584.30	0.2091	P	1.4
7	☐	1000.000	1003.524	2861250.30	0.4222	A	1.4
8	☐			1461.23	0.0002	P	2.2

$$y = 4.2074\text{E-}004 * x + 2.5859\text{E-}006$$

$$R = 1.0000$$

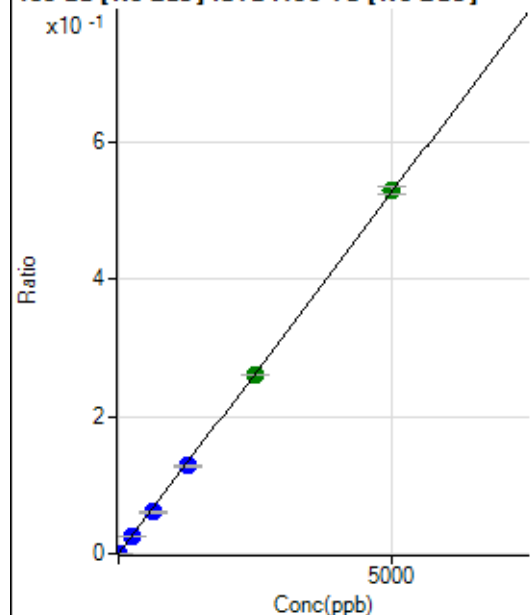
$$DL = 0.008988$$

$$BEC = 0.006146$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.89	0.0000	P	36.5
2	☐	10.000	9.067	6360.03	0.0010	P	2.6
3	☐	250.000	248.613	172779.05	0.0261	P	1.3
4	☐	625.000	578.091	421015.32	0.0608	P	3.2
5	☐	1250.000	1214.626	862207.99	0.1277	P	1.8
6	☐	2500.000	2479.458	1785152.49	0.2607	A	0.5
7	☐	5000.000	5025.049	3580617.49	0.5284	A	2.0
8	☐			2244.69	0.0003	P	4.6

$$y = 1.0516\text{E-}004 * x + 2.1672\text{E-}006$$

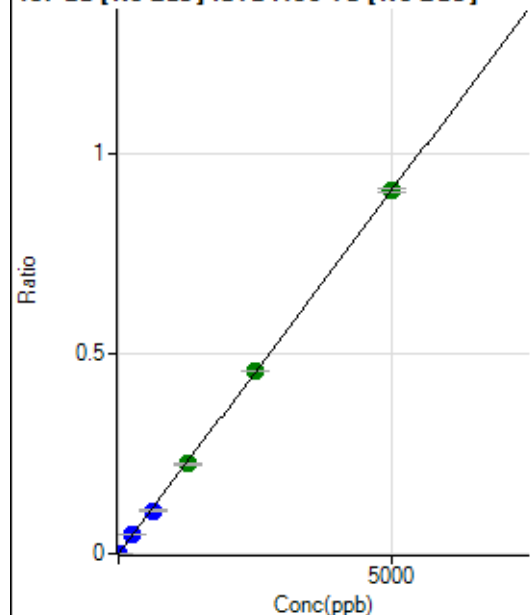
$$R = 0.9999$$

$$DL = 0.02259$$

$$BEC = 0.02061$$

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	8.33	0.0000	P	4.6
2	☐	10.000	9.701	11738.75	0.0018	P	0.8
3	☐	250.000	255.216	306399.61	0.0464	P	1.5
4	☐	625.000	587.883	739529.49	0.1068	P	3.6
5	☐	1250.000	1236.922	1516965.95	0.2247	A	1.5
6	☐	2500.000	2520.058	3134432.69	0.4578	A	0.6
7	☐	5000.000	4997.620	6152644.23	0.9079	A	1.0
8	☐			3989.59	0.0006	P	4.9

$$y = 1.8167E-004 * x + 1.2932E-006$$

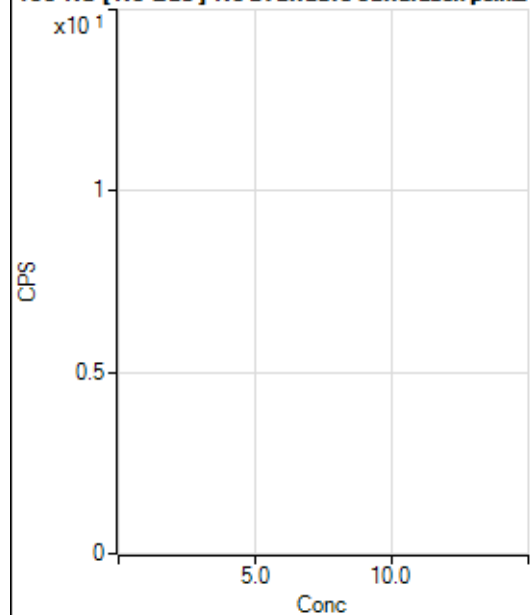
$$R = 1.0000$$

$$DL = 0.0009905$$

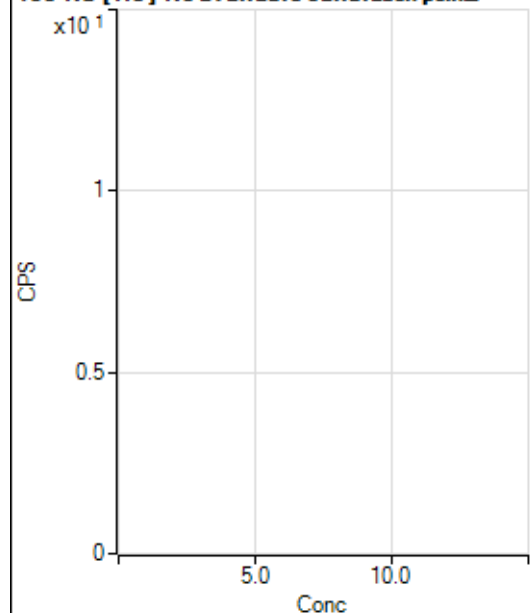
$$BEC = 0.007118$$

Weight: <None>

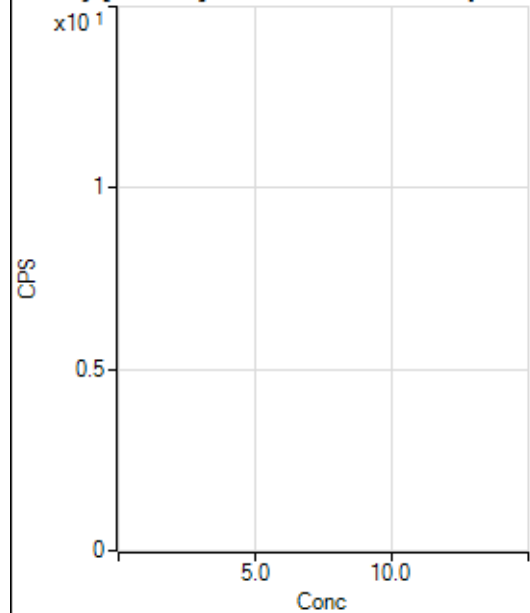
Min Conc: 0

150 Nd [No Gas] No available calibration points

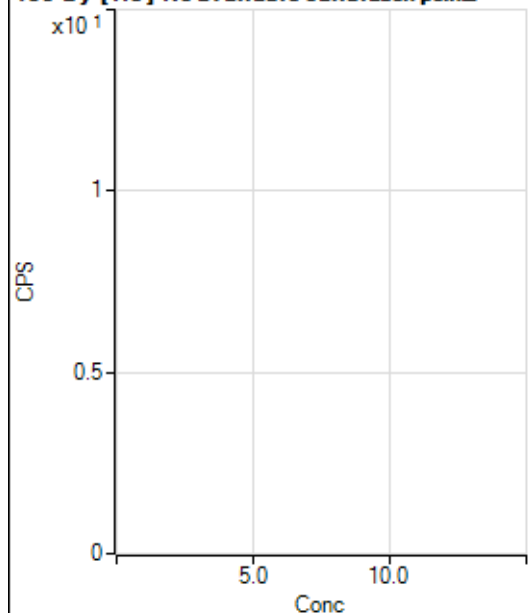
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			6.67		P	100.
2	☐			4.44		P	173.
3	☐			44.45		P	37.7
4	☐			68.89		P	11.2
5	☐			164.45		P	11.7
6	☐			342.24		P	11.7
7	☐			577.81		P	8.7
8	☐			24.45		P	68.6

150 Nd [He] No available calibration points

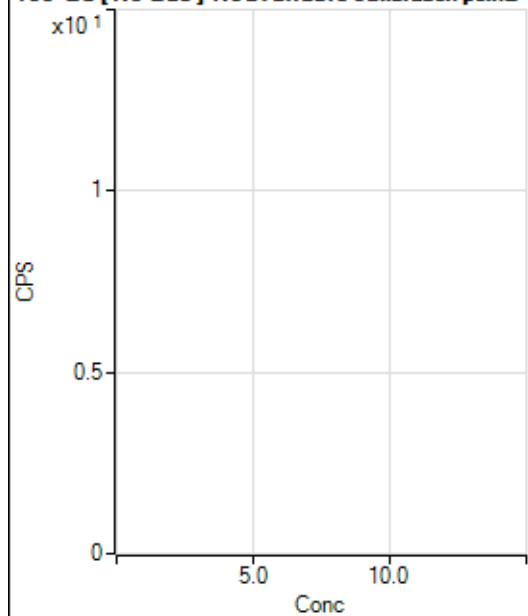
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			1.11		P	173.
3	☐			2.22		P	173.
4	☐			10.00		P	57.7
5	☐			16.66		P	34.6
6	☐			26.67		P	12.5
7	☐			51.11		P	29.4
8	☐			13.34		P	43.3

156 Dy [No Gas] No available calibration points

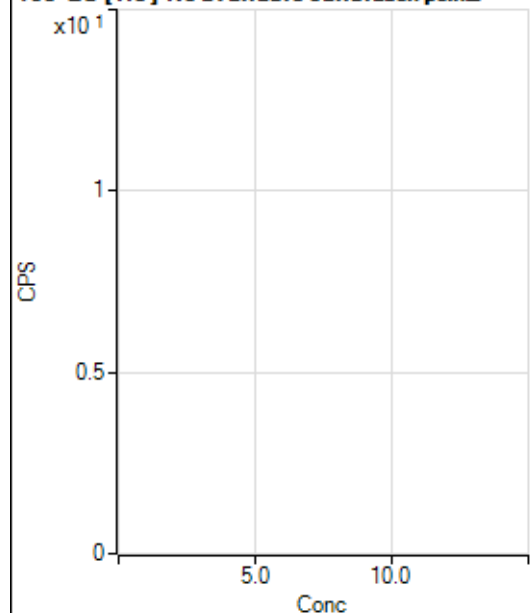
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.
2	☐			2.78		P	173.
3	☐			22.22		P	114.
4	☐			36.11		P	58.1
5	☐			86.11		P	31.1
6	☐			113.89		P	34.6
7	☐			258.35		P	17.1
8	☐			608.37		P	11.7

156 Dy [He] No available calibration points

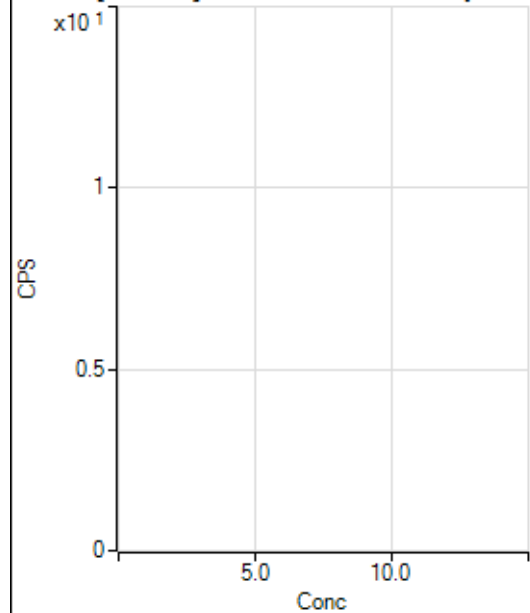
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			2.22		P	173.
3	☐			11.11		P	34.6
4	☐			12.22		P	78.7
5	☐			33.33		P	26.5
6	☐			67.78		P	18.6
7	☐			112.22		P	12.4
8	☐			343.34		P	2.6

160 Gd [No Gas] Noavailable calibration poin_

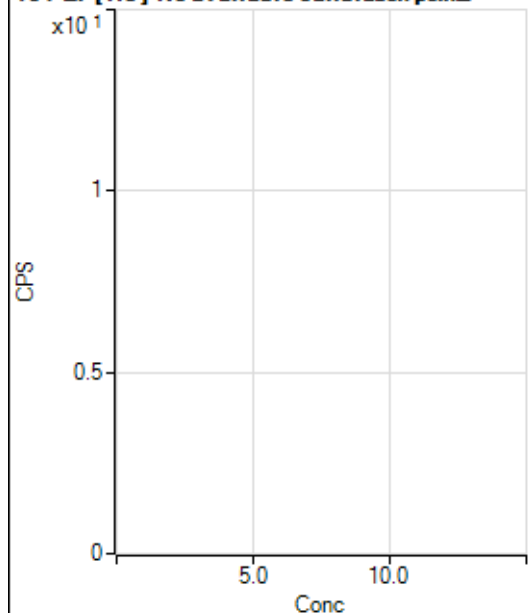
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			58.33		P	37.8
2	☐			47.22		P	36.7
3	☐			58.33		P	57.1
4	☐			80.56		P	26.0
5	☐			100.00		P	8.3
6	☐			147.23		P	26.8
7	☐			194.45		P	20.3
8	☐			622.25		P	13.7

160 Gd [He] No available calibration points

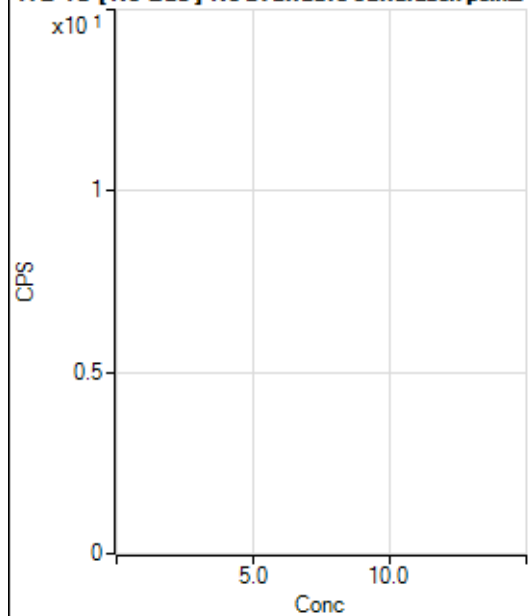
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			110.00		P	8.0
2	☐			94.45		P	27.4
3	☐			101.11		P	24.3
4	☐			113.33		P	8.8
5	☐			111.12		P	9.6
6	☐			128.89		P	30.2
7	☐			170.00		P	10.2
8	☐			493.35		P	1.4

164 Er [No Gas] No available calibration points

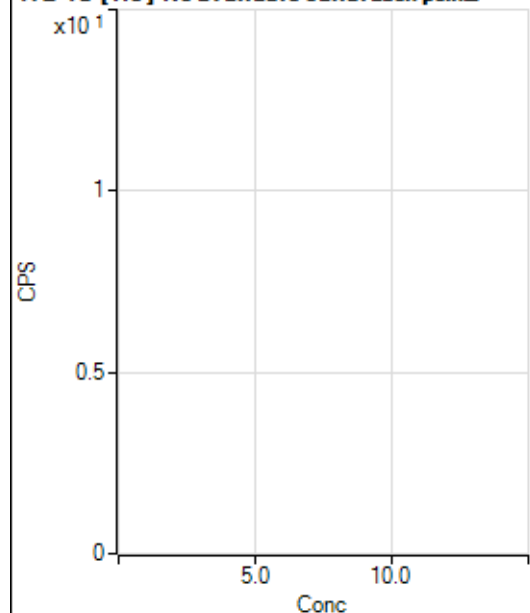
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	16.7
2	☐			69.45		P	42.1
3	☐			44.45		P	65.8
4	☐			66.67		P	0.0
5	☐			69.45		P	45.4
6	☐			80.56		P	21.5
7	☐			94.45		P	27.0
8	☐			72.22		P	63.6

164 Er [He] No available calibration points

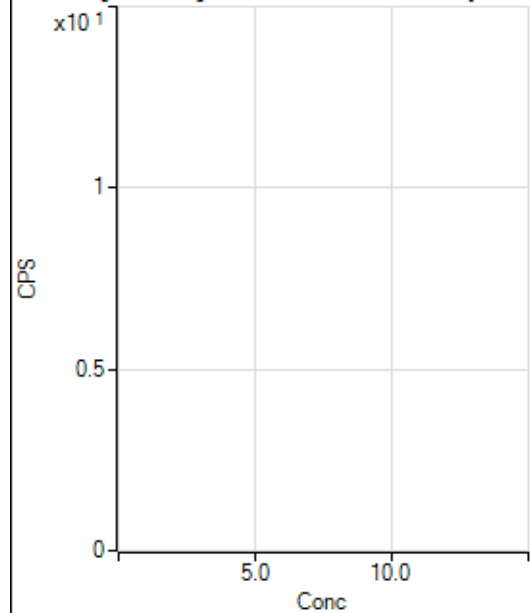
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23.33		P	79.5
2	☐			25.56		P	45.8
3	☐			23.33		P	37.8
4	☐			18.89		P	10.2
5	☐			20.00		P	33.4
6	☐			31.11		P	22.3
7	☐			33.33		P	30.0
8	☐			32.22		P	23.9

172 Yb [No Gas] No available calibration points

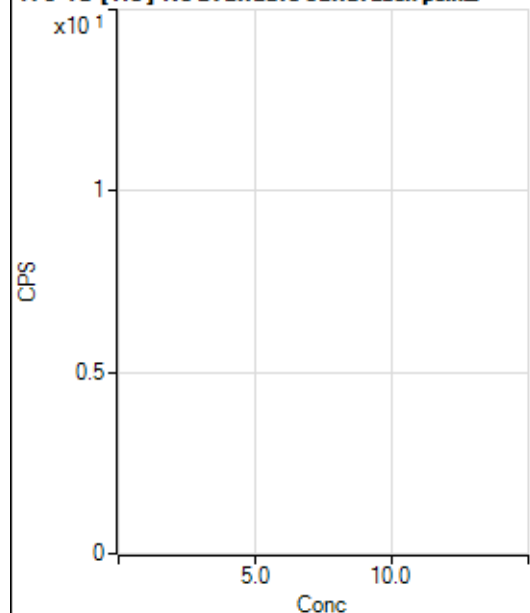
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.22		P	27.0
2	☐			50.00		P	44.1
3	☐			52.78		P	71.2
4	☐			61.11		P	28.4
5	☐			50.00		P	28.9
6	☐			94.45		P	13.5
7	☐			175.00		P	12.6
8	☐			291.68		P	15.1

172 Yb [He] No available calibration points

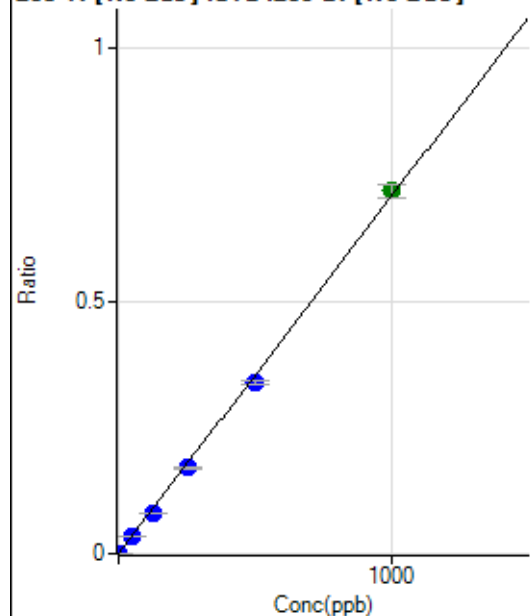
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24.07		P	48.0
2	☐			25.93		P	65.5
3	☐			25.93		P	53.9
4	☐			33.33		P	28.9
5	☐			31.48		P	53.9
6	☐			55.56		P	17.3
7	☐			55.56		P	17.3
8	☐			151.86		P	7.6

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1269.55		P	11.4
2	☐			1372.33		P	2.5
3	☐			1911.30		P	8.1
4	☐			2908.75		P	3.0
5	☐			4011.84		P	2.1
6	☐			7708.04		P	4.7
7	☐			13790.98		P	2.2
8	☐			1452.90		P	3.5

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6649.94		P	4.9
2	☐			6825.94		P	3.7
3	☐			6977.90		P	1.3
4	☐			7667.17		P	5.0
5	☐			8171.18		P	1.3
6	☐			9987.28		P	1.7
7	☐			12580.22		P	3.7
8	☐			6666.62		P	2.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	150.00	0.0000	P	10.3
2	☐	1.000	0.914	2858.74	0.0007	P	4.2
3	☐	50.000	48.075	142276.40	0.0340	P	2.6
4	☐	125.000	112.008	343668.55	0.0792	P	2.5
5	☐	250.000	241.722	718027.87	0.1709	P	2.3
6	☐	500.000	477.276	1452866.18	0.3374	P	2.3
7	☐	1000.000	1015.152	2960571.23	0.7176	A	3.4
8	☐			658.37	0.0002	P	17.3

$$y = 7.0687\text{E-}004 * x + 3.7021\text{E-}005$$

$$R = 0.9995$$

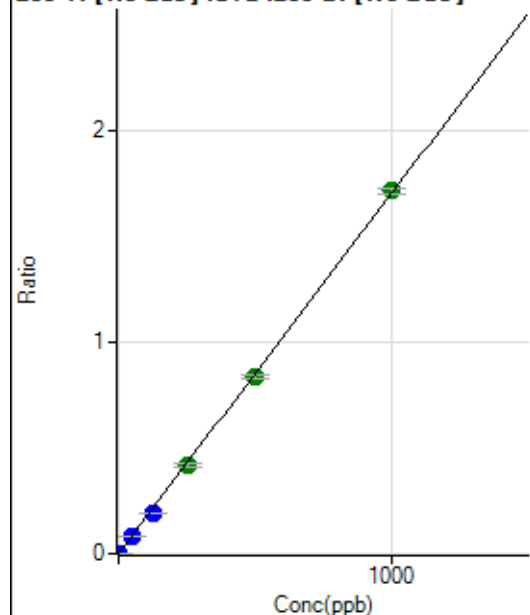
$$DL = 0.01617$$

$$BEC = 0.05237$$

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	319.46	0.0001	P	9.9
2	☐	1.000	0.889	6663.00	0.0016	P	5.2
3	☐	50.000	48.015	342055.89	0.0818	P	2.3
4	☐	125.000	113.031	834960.26	0.1924	P	2.3
5	☐	250.000	244.976	1751853.53	0.4170	A	3.7
6	☐	500.000	491.867	3604866.23	0.8372	A	1.9
7	☐	1000.000	1006.918	7070190.35	1.7137	A	1.4
8	☐			1600.15	0.0004	P	4.1

$$y = 0.0017 * x + 7.8965E-005$$

$$R = 0.9999$$

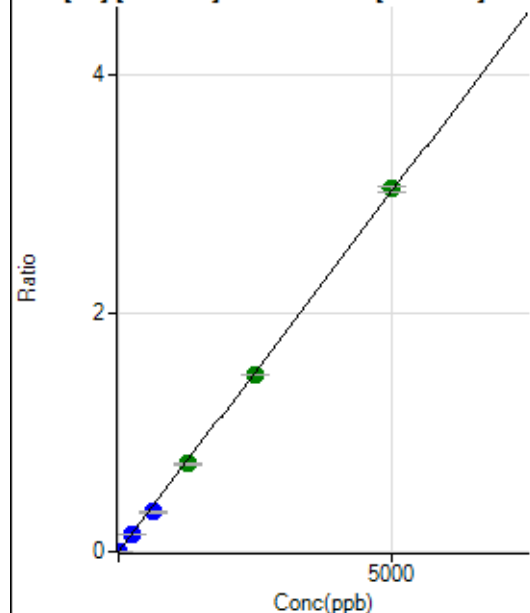
$$DL = 0.01379$$

$$BEC = 0.0464$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	294.45	0.0001	P	20.4
2	☐	1.000	0.878	2520.66	0.0006	P	5.3
3	☐	250.000	233.748	589210.90	0.1409	P	2.6
4	☐	625.000	548.583	1434141.61	0.3306	P	3.3
5	☐	1250.000	1216.989	3080707.85	0.7333	A	3.1
6	☐	2500.000	2452.962	6363677.40	1.4779	A	0.3
7	☐	5000.000	5042.136	12533660.81	3.0378	A	1.8
8	☐			2746.64	0.0007	P	9.5

$$y = 6.0247E-004 * x + 7.2887E-005$$

$$R = 0.9998$$

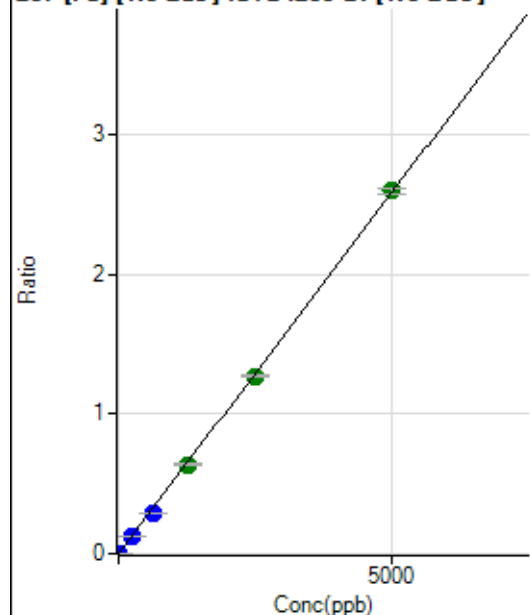
$$DL = 0.07413$$

$$BEC = 0.121$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	253.71	0.0001	P	17.8
2	☐	1.000	0.912	2233.57	0.0005	P	9.7
3	☐	250.000	237.627	513493.12	0.1228	P	1.8
4	☐	625.000	563.010	1261838.66	0.2908	P	2.0
5	☐	1250.000	1233.397	2676496.85	0.6370	A	2.2
6	☐	2500.000	2462.680	5476517.66	1.2719	A	0.7
7	☐	5000.000	5031.178	10719739.82	2.5984	A	1.9
8	☐			2231.72	0.0006	P	6.9

$$y = 5.1644\text{E-}004 * x + 6.2979\text{E-}005$$

$$R = 0.9999$$

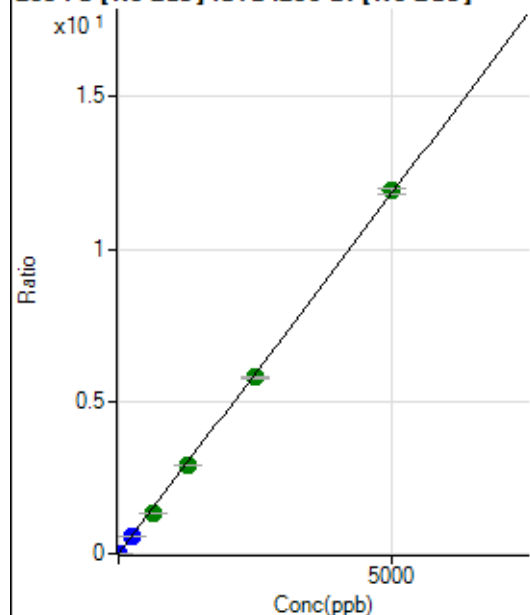
$$DL = 0.06508$$

$$BEC = 0.1219$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1168.56	0.0003	P	5.7
2	☐	1.000	0.893	10051.69	0.0024	P	3.6
3	☐	250.000	237.530	2351075.66	0.5621	P	1.3
4	☐	625.000	566.173	5811764.80	1.3395	A	2.2
5	☐	1250.000	1225.796	12183547.38	2.8998	A	1.7
6	☐	2500.000	2453.418	24989809.94	5.8036	A	1.2
7	☐	5000.000	5037.319	49157425.98	11.9156	A	1.6
8	☐			10533.37	0.0028	P	6.8

$$y = 0.0024 * x + 2.8867\text{E-}004$$

$$R = 0.9999$$

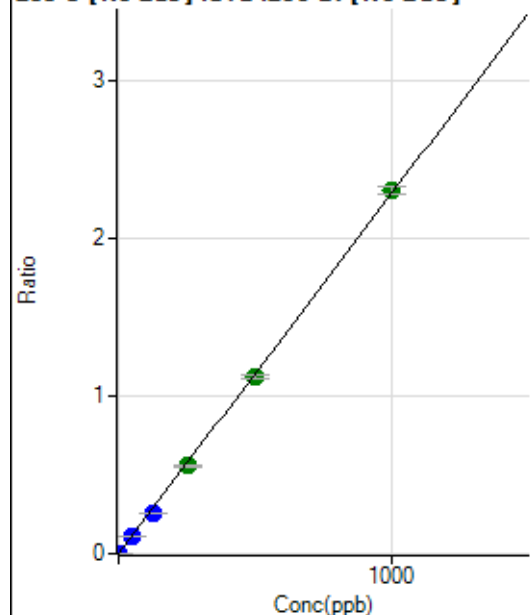
$$DL = 0.02102$$

$$BEC = 0.122$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.66	0.0000	P	91.8
2	☐	1.000	0.892	8558.68	0.0020	P	1.4
3	☐	50.000	46.976	449494.76	0.1075	P	2.6
4	☐	125.000	111.040	1102514.11	0.2541	P	0.5
5	☐	250.000	243.097	2336991.87	0.5562	A	2.1
6	☐	500.000	492.210	4849393.34	1.1262	A	1.9
7	☐	1000.000	1007.517	9509751.78	2.3052	A	1.9
8	☐			752.83	0.0002	P	40.2

$$y = 0.0023 * x + 4.2451E-006$$

$$R = 0.9999$$

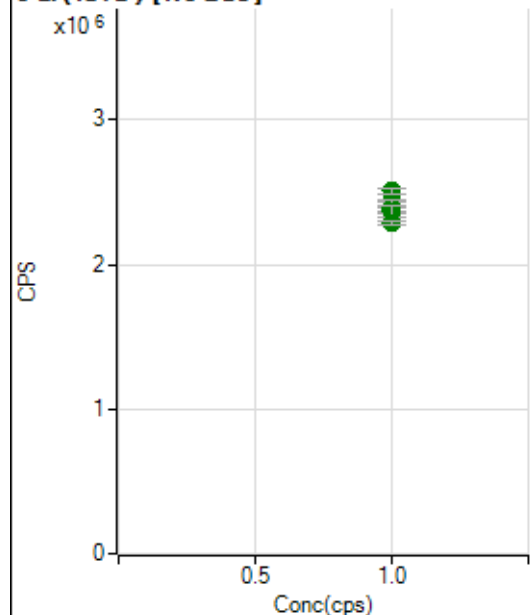
$$DL = 0.005108$$

$$BEC = 0.001855$$

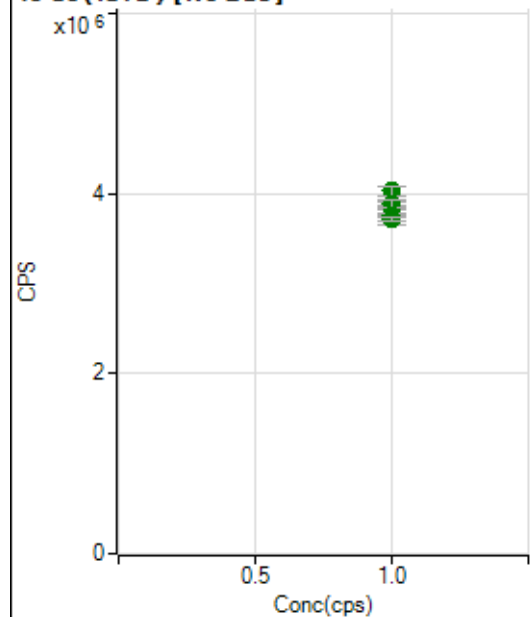
Weight: <None>

Min Conc: 0

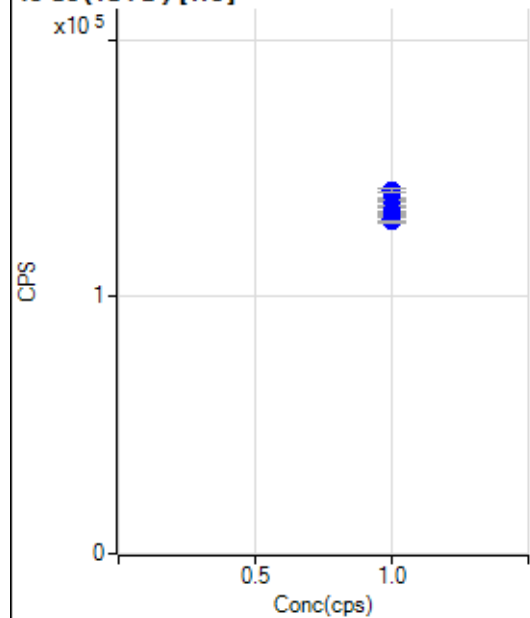
6 Li (ISTD) [No Gas]



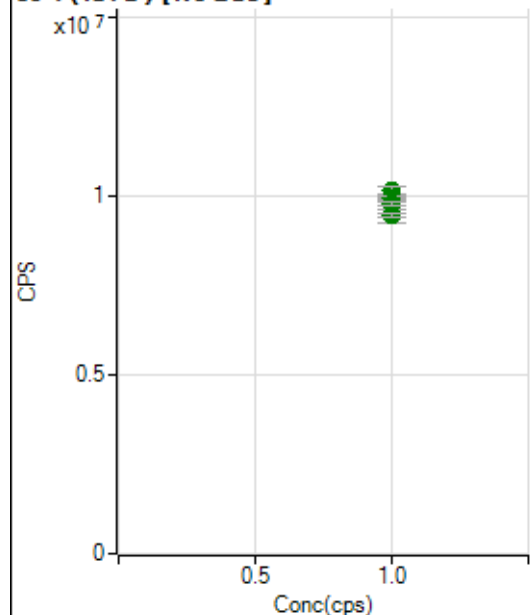
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2380104.06		A	4.2
2	☐	1.000		2375235.08		A	2.0
3	☐	1.000		2443737.74		A	0.7
4	☐	1.000		2507826.89		A	1.9
5	☐	1.000		2378372.11		A	1.5
6	☐	1.000		2396961.04		A	3.8
7	☐	1.000		2366109.32		A	2.8
8	☐	1.000		2286314.21		A	1.0

45 Sc (ISTD) [No Gas]

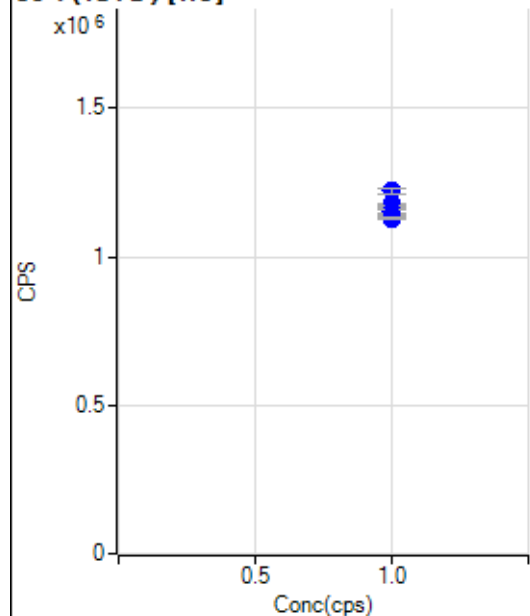
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3729251.92		A	4.5
2	☐	1.000		3884864.11		A	1.0
3	☐	1.000		3838717.97		A	4.1
4	☐	1.000		4027882.51		A	2.8
5	☐	1.000		3895792.48		A	1.4
6	☐	1.000		3888045.32		A	2.4
7	☐	1.000		3754757.65		A	1.1
8	☐	1.000		3712938.97		A	1.1

45 Sc (ISTD) [He]

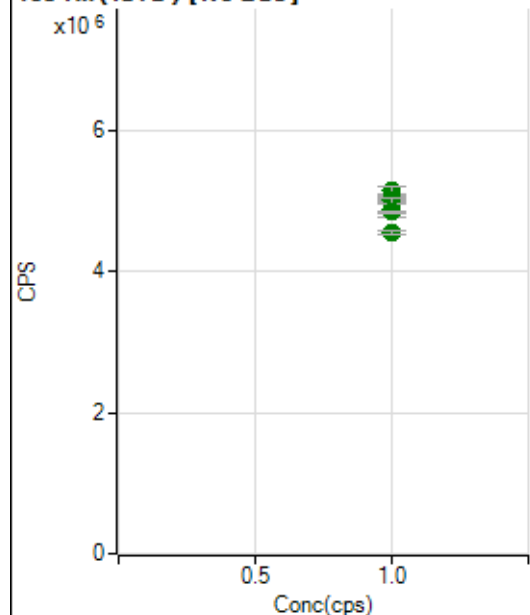
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		138152.25		P	0.7
2	☐	1.000		137515.68		P	0.3
3	☐	1.000		135385.02		P	0.3
4	☐	1.000		141322.68		P	1.0
5	☐	1.000		133097.76		P	0.7
6	☐	1.000		131550.89		P	0.9
7	☐	1.000		130317.38		P	0.7
8	☐	1.000		129220.80		P	0.5

89 Y (ISTD) [No Gas]

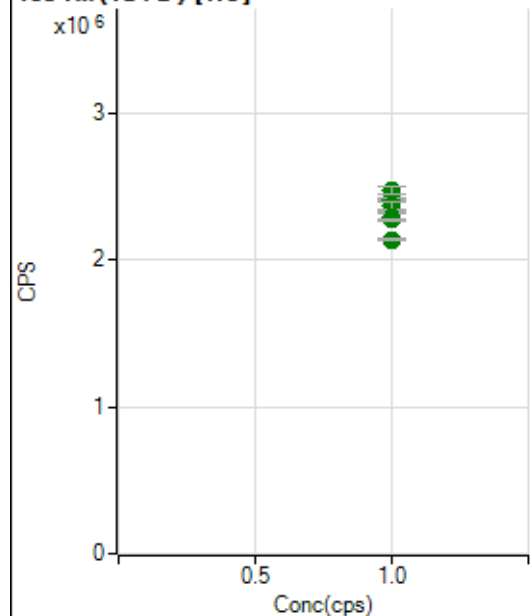
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9476984.44		A	5.0
2	☐	1.000		9813726.17		A	1.8
3	☐	1.000		9884239.99		A	2.9
4	☐	1.000		10135435.27		A	2.5
5	☐	1.000		9776939.72		A	3.1
6	☐	1.000		9918318.19		A	1.0
7	☐	1.000		9771210.62		A	1.5
8	☐	1.000		9456118.61		A	1.5

89 Y (ISTD) [He]

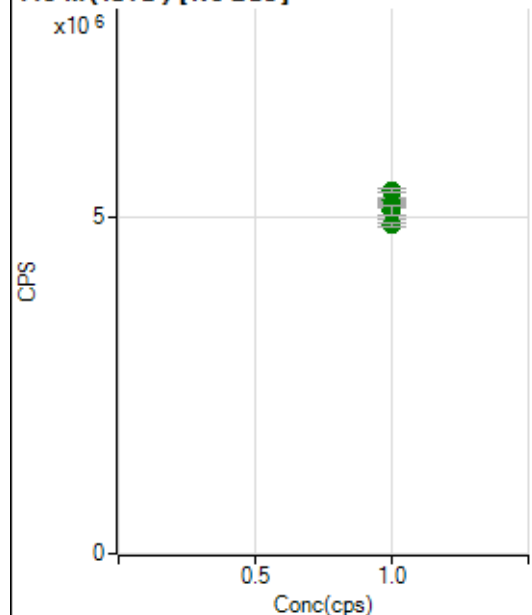
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1176932.94		P	0.5
2	☐	1.000		1177674.14		P	0.8
3	☐	1.000		1169719.29		P	0.4
4	☐	1.000		1222460.89		P	1.8
5	☐	1.000		1150475.86		P	1.1
6	☐	1.000		1143570.60		P	0.4
7	☐	1.000		1132118.16		P	0.3
8	☐	1.000		1129232.03		P	0.6

103 Rh (ISTD) [No Gas]

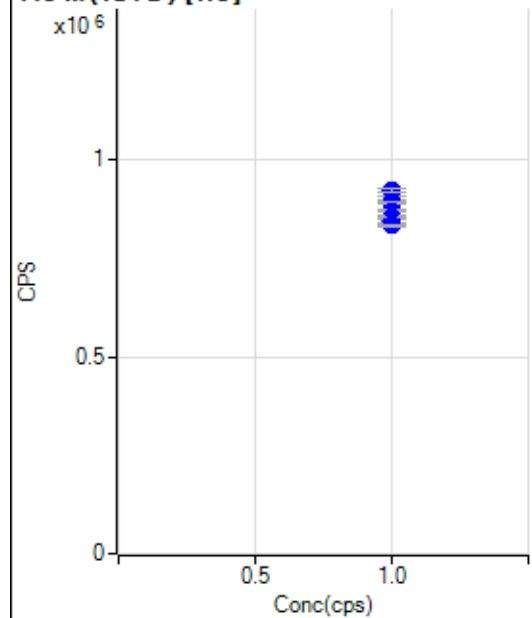
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4887850.02		A	5.0
2	☐	1.000		5038645.38		A	2.1
3	☐	1.000		5032152.85		A	0.8
4	☐	1.000		5146811.14		A	2.3
5	☐	1.000		4966154.58		A	0.5
6	☐	1.000		5014780.41		A	1.6
7	☐	1.000		4851188.17		A	0.5
8	☐	1.000		4548918.42		A	1.0

103 Rh (ISTD) [He]

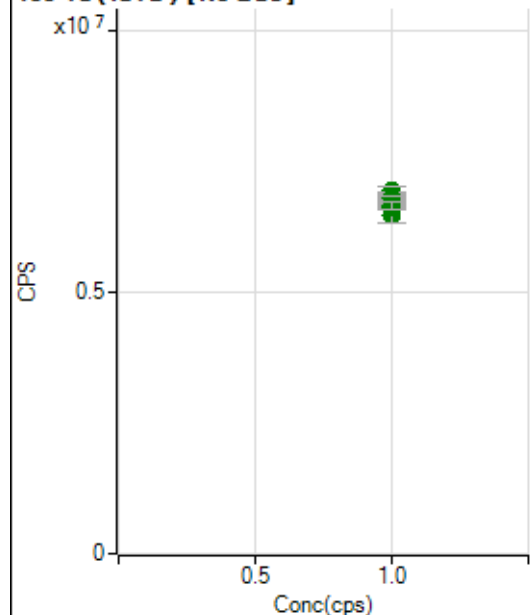
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2410789.13		A	0.5
2	☐	1.000		2399523.70		A	1.1
3	☐	1.000		2362586.98		A	2.1
4	☐	1.000		2466658.66		A	2.1
5	☐	1.000		2291657.81		A	2.7
6	☐	1.000		2293094.98		A	1.3
7	☐	1.000		2269545.21		A	0.9
8	☐	1.000		2135464.92		A	0.5

115 In (ISTD) [No Gas]

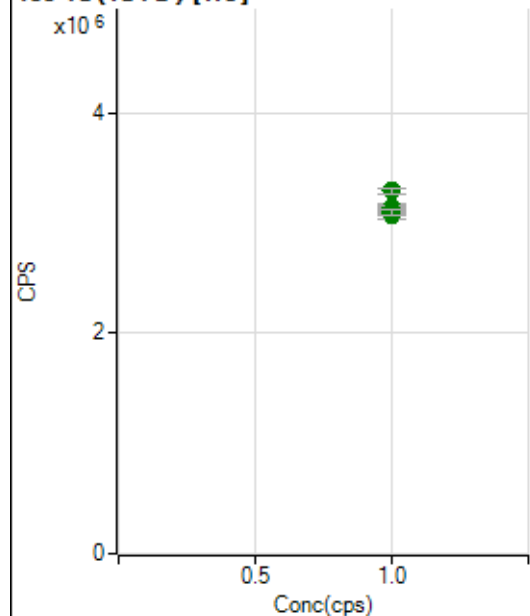
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5135357.82		A	5.4
2	☐	1.000		5232239.44		A	0.4
3	☐	1.000		5274657.62		A	1.1
4	☐	1.000		5404121.91		A	1.1
5	☐	1.000		5207754.81		A	0.3
6	☐	1.000		5168571.54		A	0.6
7	☐	1.000		5105714.70		A	2.5
8	☐	1.000		4896369.69		A	1.0

115 In (ISTD) [He]

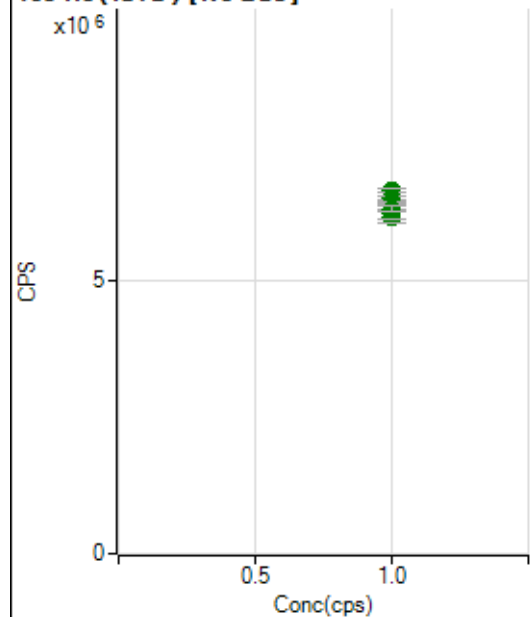
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		900903.87		P	1.2
2	☐	1.000		894287.41		P	0.7
3	☐	1.000		891505.99		P	0.6
4	☐	1.000		921660.10		P	1.1
5	☐	1.000		870426.62		P	0.5
6	☐	1.000		853605.89		P	1.3
7	☐	1.000		846894.94		P	2.1
8	☐	1.000		834297.19		P	0.4

159 Tb (ISTD) [No Gas]

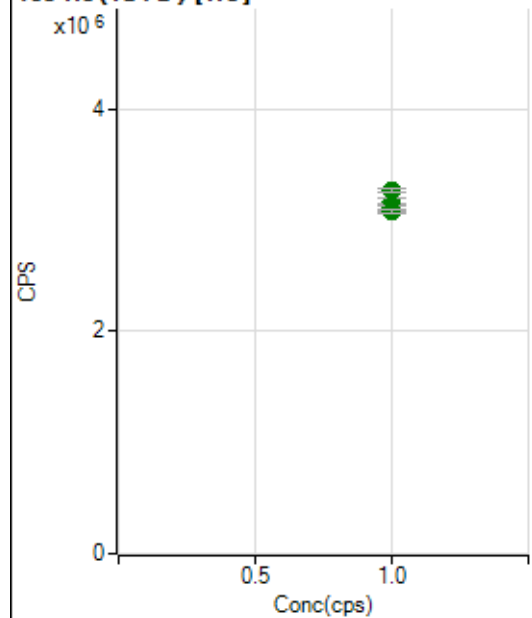
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6450262.40		A	4.5
2	☐	1.000		6655328.51		A	0.5
3	☐	1.000		6609024.21		A	1.4
4	☐	1.000		6927659.96		A	2.2
5	☐	1.000		6750681.15		A	0.4
6	☐	1.000		6846619.97		A	1.4
7	☐	1.000		6777166.57		A	1.5
8	☐	1.000		6642672.05		A	2.2

159 Tb (ISTD) [He]

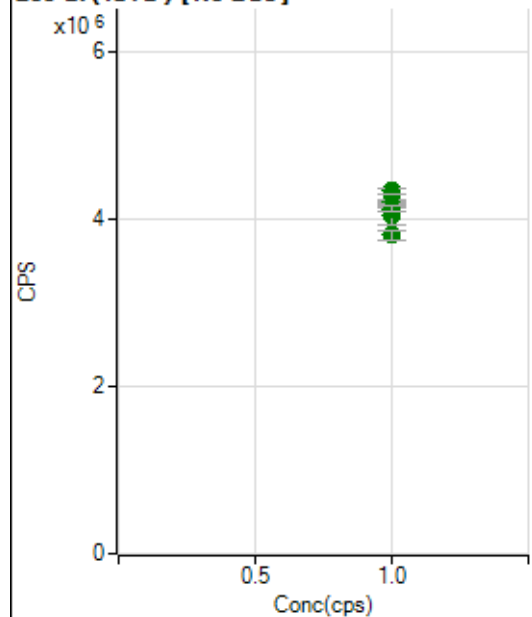
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3129738.08		A	0.4
2	☐	1.000		3140097.18		A	2.1
3	☐	1.000		3136581.21		A	0.9
4	☐	1.000		3290732.97		A	1.6
5	☐	1.000		3134598.18		A	0.9
6	☐	1.000		3108308.18		A	1.2
7	☐	1.000		3076914.54		A	2.4
8	☐	1.000		3090819.92		A	1.9

165 Ho (ISTD) [No Gas]

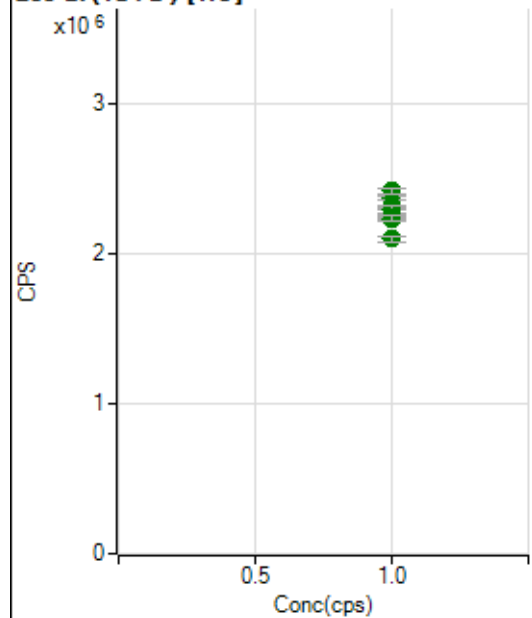
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6173231.48		A	3.1
2	☐	1.000		6393414.38		A	0.6
3	☐	1.000		6230238.25		A	2.3
4	☐	1.000		6659214.86		A	1.1
5	☐	1.000		6443511.64		A	1.3
6	☐	1.000		6529458.91		A	0.9
7	☐	1.000		6442094.76		A	0.4
8	☐	1.000		6332566.98		A	1.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3166864.89		A	1.8
2	☐	1.000		3103728.94		A	2.1
3	☐	1.000		3135795.68		A	0.9
4	☐	1.000		3261704.33		A	1.1
5	☐	1.000		3096278.77		A	0.3
6	☐	1.000		3108543.91		A	1.6
7	☐	1.000		3127391.17		A	0.2
8	☐	1.000		3074266.73		A	0.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4054262.34		A	5.6
2	☐	1.000		4186800.88		A	2.1
3	☐	1.000		4182800.70		A	1.5
4	☐	1.000		4339613.69		A	1.4
5	☐	1.000		4201928.34		A	0.9
6	☐	1.000		4305827.54		A	0.3
7	☐	1.000		4125854.28		A	1.4
8	☐	1.000		3810443.31		A	3.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2372869.95		A	1.3
2	☐	1.000		2293447.61		A	0.6
3	☐	1.000		2314375.54		A	0.5
4	☐	1.000		2416095.64		A	1.4
5	☐	1.000		2290933.32		A	2.0
6	☐	1.000		2235826.63		A	0.5
7	☐	1.000		2234672.64		A	1.4
8	☐	1.000		2094267.82		A	1.6

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8051223-MS.b
Acq. Date-Time 2023-05-12 07:30:09
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		7577	75766.28			0.615	5.000
24		61831	618313.32			0.825	5.000
25		8266	82664.19			0.927	5.000
26		9781	97806.02			0.426	5.000
59		46202	462017.18			0.357	5.000
113		5056	50563.65			0.483	5.000
115		61339	613393.40			0.713	5.000
206		14379	143791.67			0.425	5.000
207		12963	129627.28			0.691	5.000
208		30811	308112.93			1.174	5.000
220		0	3.80			35.551	

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

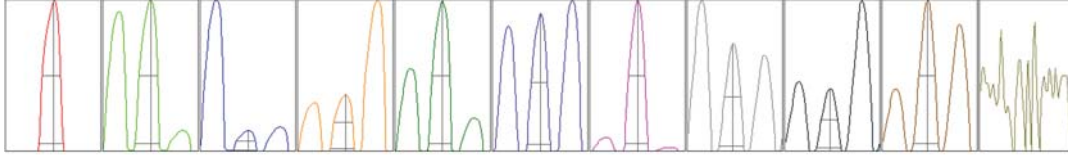
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7611	7563	7567	7631	7511
24	62499	61351	61467	62248	61591
25	8293	8224	8270	8375	8170
26	9772	9814	9723	9827	9767
59	46108	46495	46157	46127	46121
113	5071	5027	5038	5059	5087
115	62004	61244	60789	61403	61256
206	14384	14417	14377	14279	14438
207	13072	12831	12950	12949	13012
208	31134	30997	30577	30292	31056

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	14267.68	9.05	8.90 - 9.10	
24	111186.21	24.05	23.90 - 24.10	
25	15052.42	25.05	24.90 - 25.10	
26	17440.27	26.05	25.90 - 26.10	
59	88265.91	59.00	58.90 - 59.10	
113	10378.85	113.05	112.90 - 113.10	
115	125914.33	115.05	114.90 - 115.10	
206	28634.58	205.95	205.90 - 206.10	
207	25661.71	206.95	206.90 - 207.10	
208	61960.07	207.95	207.90 - 208.10	
220	0.00	220.15	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.767	0.900	
24	0.58	0.771	0.900	
25	0.59	0.736	0.900	
26	0.59	0.757	0.900	
59	0.55	0.732	0.900	
113	0.50	0.729	0.900	
115	0.51	0.728	0.900	
206	0.52	0.780	0.900	
207	0.51	0.778	0.900	
208	0.51	0.797	0.900	
220	0.45	0.450		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.84 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	9.8 V	Deflect	15.2 V
Extract 2	-170.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-95 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	160 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9989	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	-1.1 mm
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EM

Discriminator	4.4 mV	Analog HV	2326 V	Pulse HV	1725 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		9862	98620.52			0.488	
89		8221	82209.93			1.008	
205		11077	110770.36			1.080	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	9799	9852	9902	9840	9918
89	8187	8241	8350	8199	8128
205	11057	11109	11260	11022	10937

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.84 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	9.8 V	Deflect	4.0 V
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US EPA Tune Check Report

Extract 2	-170.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-95 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	123	Axis Gain	0.9989	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	-1.1 mm
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EM

Discriminator	4.4 mV	Analog HV	2326 V	Pulse HV	1725 V
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