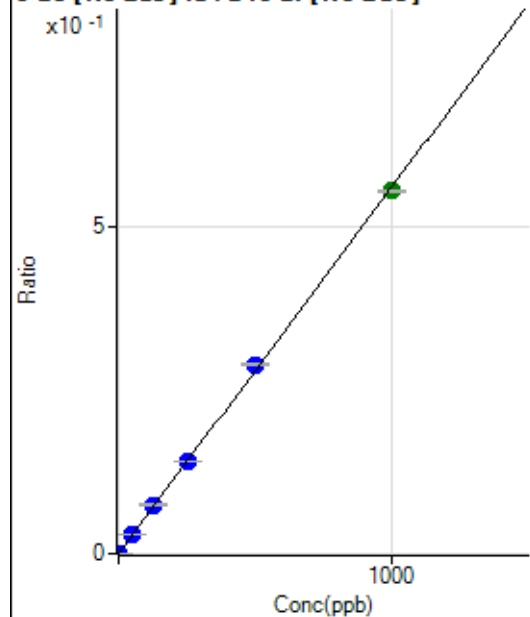


Calibration for 003CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8012022MS1.b\
 Analysis File: P8012022MS1.batch.bin
 DA Date-Time: 2022-01-25 17:21:29
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2022-01-20 16:27:34
2	005CALS.d	S02	2022-01-20 16:33:44
3	006CALS.d	S03	2022-01-20 16:36:51
4	007CALS.d	S04	2022-01-20 16:39:54
5	008CALS.d	S05	2022-01-20 16:43:00
6	009CALS.d	S06	2022-01-20 16:46:03
7	010CALS.d	S07	2022-01-20 16:49:08
8	011CALS.d	S08	2022-01-20 16:52:12

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	85.98	0.0001	P	16.0
2	☐	1.000	1.139	1142.49	0.0007	P	5.9
3	☐	50.000	53.172	50267.28	0.0299	P	1.6
4	☐	125.000	131.593	126631.77	0.0740	P	3.7
5	☐	250.000	252.970	251666.84	0.1421	P	0.9
6	☐	500.000	515.214	504619.52	0.2894	P	1.3
7	☐	1000.000	990.668	1027267.77	0.5565	A	0.8
8	☐			757.88	0.0004	P	12.1

$$y = 5.6167\text{E-}004 * x + 5.0588\text{E-}005$$

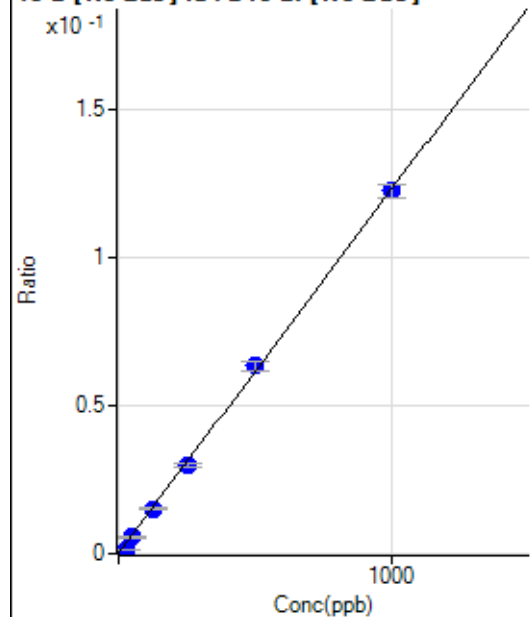
$$R = 0.9998$$

$$DL = 0.04316$$

$$BEC = 0.09007$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	312.61	0.0002	P	5.1
2	☐	25.000	9.856	2299.73	0.0014	P	10.9
3	☐	50.000	44.771	9541.25	0.0057	P	5.8
4	☐	125.000	121.289	25797.54	0.0151	P	5.4
5	☐	250.000	242.443	52998.05	0.0299	P	5.7
6	☐	500.000	514.075	110282.77	0.0632	P	4.2
7	☐	1000.000	995.956	225880.87	0.1224	P	3.8
8	☐			25792.18	0.0149	P	7.7

$$y = 1.2268\text{E-}004 * x + 1.8400\text{E-}004$$

$$R = 0.9997$$

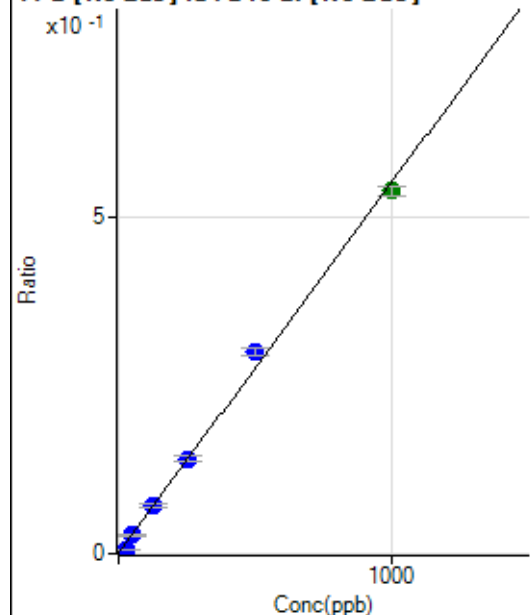
$$DL = 0.2306$$

$$BEC = 1.5$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1453.79	0.0009	P	4.0
2	☐	25.000	10.577	11029.33	0.0067	P	8.8
3	☐	50.000	47.779	45654.36	0.0272	P	3.7
4	☐	125.000	127.591	121753.02	0.0711	P	6.2
5	☐	250.000	255.235	250397.06	0.1414	P	6.1
6	☐	500.000	542.061	521905.53	0.2993	P	4.1
7	☐	1000.000	977.809	995409.18	0.5393	A	2.6
8	☐			121969.15	0.0704	P	6.5

$$y = 5.5062\text{E-}004 * x + 8.5562\text{E-}004$$

$$R = 0.9984$$

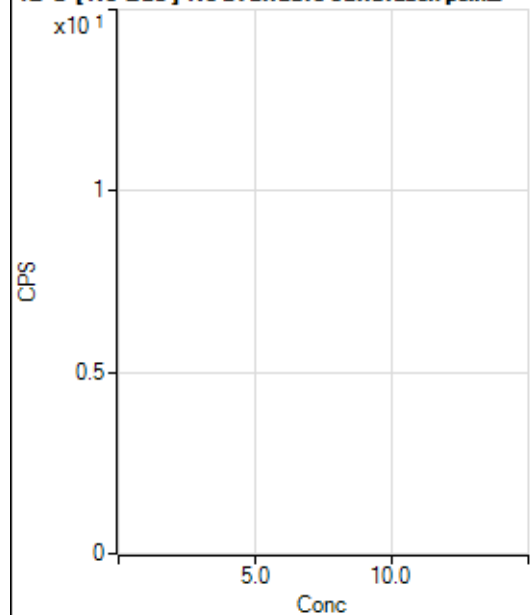
$$DL = 0.1864$$

$$BEC = 1.554$$

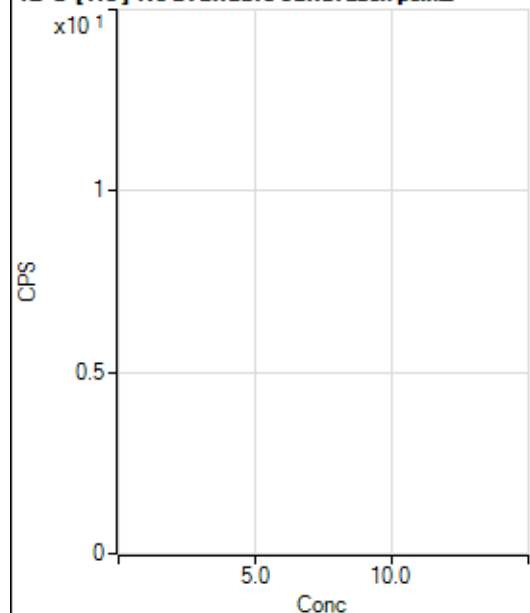
Weight: <None>

Min Conc: 0

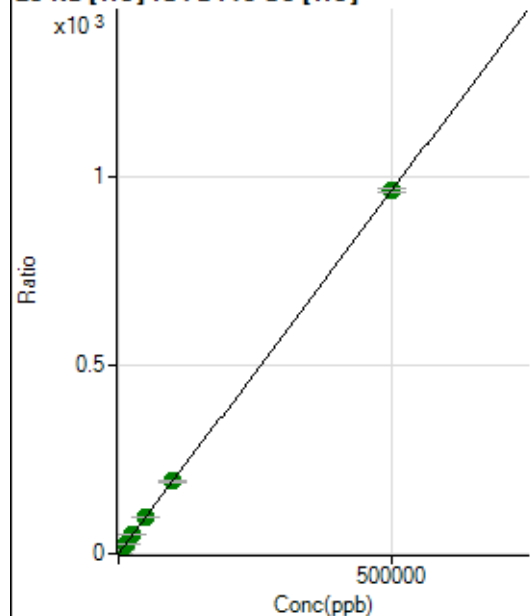
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			4669263.04		A	2.0
2	☐			4541712.12		A	1.1
3	☐			4916751.15		A	1.1
4	☐			5010791.61		A	0.7
5	☐			5096193.39		A	1.8
6	☐			5429704.25		A	1.0
7	☐			6004586.20		A	1.7
8	☐			5543266.83		A	1.1

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			48358.01		P	1.9
2	☐			47399.25		P	2.4
3	☐			53110.47		P	2.1
4	☐			51619.18		P	2.3
5	☐			53779.65		P	0.5
6	☐			56380.81		P	2.0
7	☐			63060.57		P	1.2
8	☐			62474.90		P	1.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16523.61	0.1511	P	1.7
2	☐	500.000	451.301	111328.79	1.0193	P	0.4
3	☐	5000.000	5163.423	1096323.68	10.0843	A	0.5
4	☐	12500.000	12544.618	2631170.74	24.2839	A	1.9
5	☐	25000.000	25405.736	5163121.38	49.0256	A	1.0
6	☐	50000.000	49634.869	10206061.26	95.6365	A	0.7
7	☐	100000.00	99618.122	19994942.63	191.7921	A	4.3
8	☐	500000.00	500089.90	98155907.75	962.2021	A	0.9

$$y = 0.0019 * x + 0.1511$$

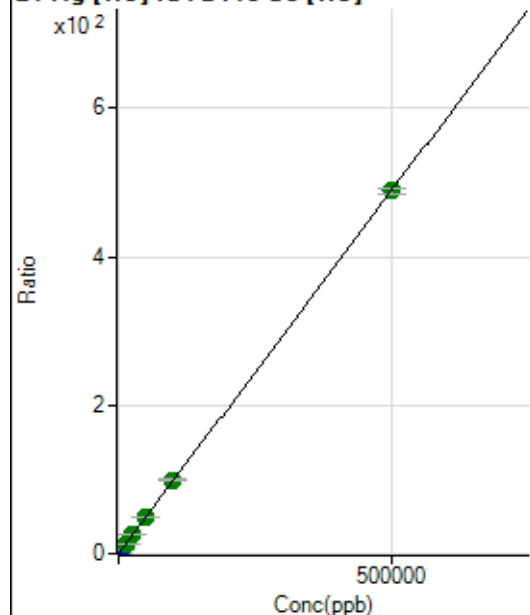
$$R = 1.0000$$

$$DL = 4.052$$

$$BEC = 78.57$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	372.24	0.0034	P	15.8
2	☐	500.000	468.392	50379.64	0.4613	P	1.6
3	☐	5000.000	5079.285	540198.31	4.9687	P	0.2
4	☐	12500.000	12981.591	1375447.57	12.6937	A	1.1
5	☐	25000.000	26465.232	2725094.13	25.8748	A	1.3
6	☐	50000.000	49857.765	5201579.98	48.7424	A	1.3
7	☐	100000.00	101098.63	10306631.74	98.8336	A	3.3
8	☐	500000.00	499708.43	49832168.13	488.4992	A	1.6

$$y = 9.7756\text{E-}004 * x + 0.0034$$

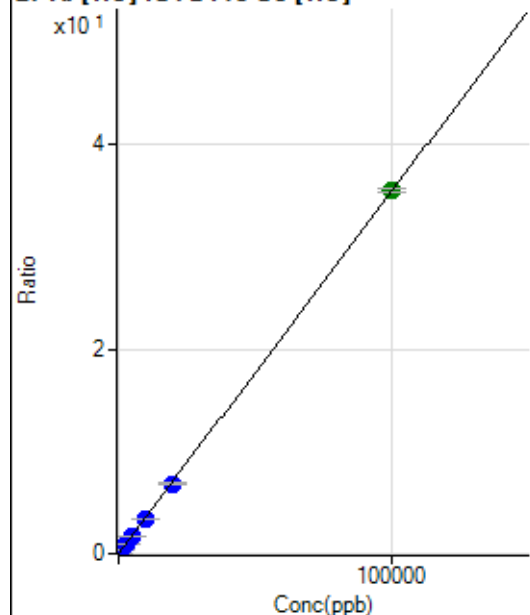
$$R = 1.0000$$

$$DL = 1.651$$

$$BEC = 3.485$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	109.57	0.0010	P	10.6
2	☐	20.000	16.996	767.01	0.0070	P	2.6
3	☐	1000.000	993.151	38359.16	0.3528	P	0.6
4	☐	2500.000	2443.628	93919.27	0.8667	P	0.3
5	☐	5000.000	4955.580	184968.31	1.7565	P	0.9
6	☐	10000.000	9614.956	363596.87	3.4072	P	1.3
7	☐	20000.000	19276.785	712189.33	6.8299	P	3.6
8	☐	100000.00	100186.84	3620667.40	35.4927	A	1.1

$$y = 3.5426\text{E-}004 * x + 0.0010$$

$$R = 1.0000$$

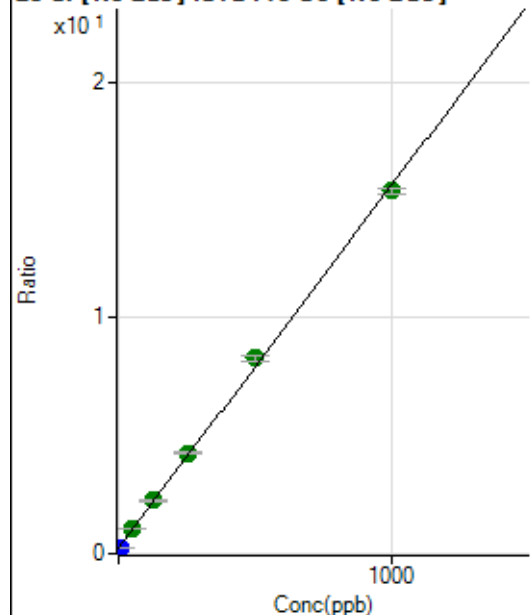
$$DL = 0.9024$$

$$BEC = 2.829$$

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	666484.84	0.2489	P	3.3
2	☐	10.000	0.513	698525.80	0.2568	P	1.7
3	☐	50.000	51.502	2769688.89	1.0398	A	0.2
4	☐	125.000	130.307	6132470.06	2.2499	A	1.5
5	☐	250.000	262.107	11662757.21	4.2739	A	0.2
6	☐	500.000	522.852	22626460.40	8.2780	A	2.8
7	☐	1000.000	984.903	44192362.79	15.3734	A	1.7
8	☐			1866611.04	0.6883	A	3.1

$$y = 0.0154 * x + 0.2489$$

$$R = 0.9994$$

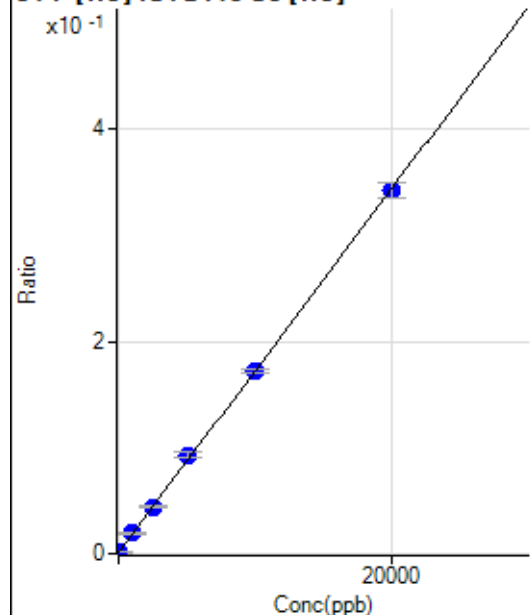
$$DL = 1.596$$

$$BEC = 16.21$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-1.562	113.89	0.0010	P	39.5
2	☐	0.000	1.562	119.45	0.0011	P	28.0
3	☐	1000.000	1083.997	2136.33	0.0197	P	9.6
4	☐	2500.000	2488.528	4739.79	0.0437	P	4.1
5	☐	5000.000	5377.281	9820.31	0.0933	P	5.3
6	☐	10000.000	10019.740	18445.48	0.1728	P	2.3
7	☐	20000.000	19893.044	35669.40	0.3421	P	4.1
8	☐			152.78	0.0015	P	17.0

$$y = 1.7144E-005 * x + 0.0011$$

$$R = 0.9998$$

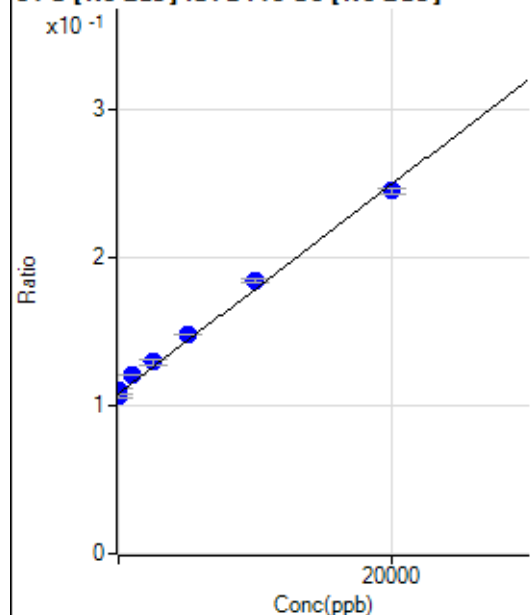
$$DL = 62.74$$

$$BEC = 62.21$$

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	222.716	293654.54	0.1097	P	3.1
2	☐	0.000	-222.716	289768.23	0.1065	P	1.5
3	☐	1000.000	1746.523	320741.28	0.1204	P	0.4
4	☐	2500.000	2975.448	351796.86	0.1291	P	2.5
5	☐	5000.000	5585.558	402494.84	0.1475	P	0.1
6	☐	10000.000	10785.023	503476.65	0.1842	P	1.5
7	☐	20000.000	19364.342	703414.52	0.2447	P	1.4
8	☐			269635.75	0.0994	P	1.8

$$y = 7.0556\text{E-}006 * x + 0.1081$$

$$R = 0.9978$$

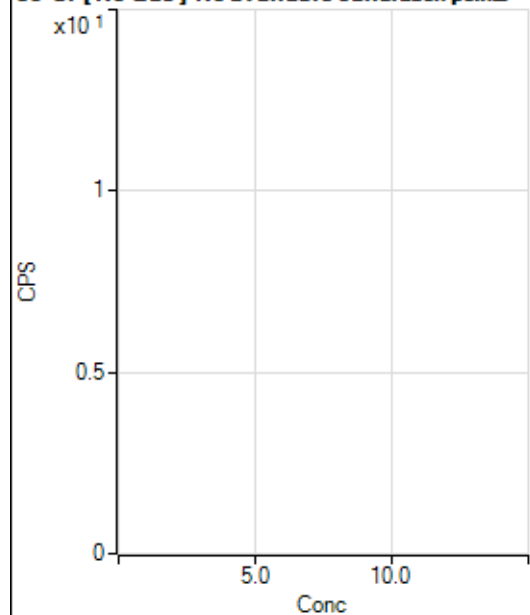
$$DL = 1069$$

$$BEC = 1.532\text{E}+04$$

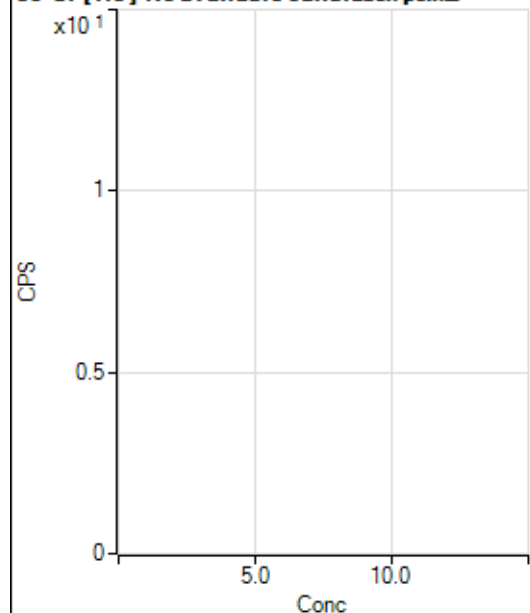
Weight: <None>

Min Conc: 0

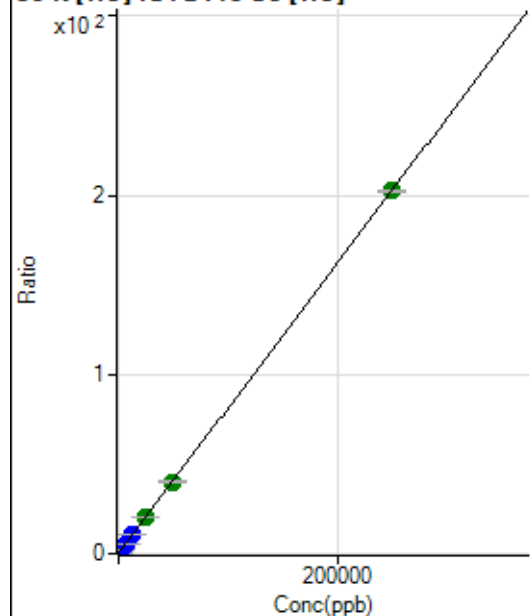
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			319289.42		P	0.2
2	☐			290276.93		P	1.8
3	☐			278267.46		P	0.9
4	☐			249817.02		P	0.5
5	☐			243277.52		P	1.1
6	☐			229066.87		P	1.6
7	☐			218968.19		P	0.5
8	☐			221995.22		P	0.5

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2844.79		P	5.4
2	☐			2416.94		P	8.1
3	☐			2258.58		P	6.8
4	☐			2061.32		P	2.0
5	☐			1939.07		P	12.7
6	☐			1977.97		P	4.4
7	☐			1850.17		P	3.0
8	☐			1702.92		P	8.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	20172.83	0.1845	P	1.6
2	☐	500.000	450.804	59947.06	0.5489	P	1.6
3	☐	2500.000	2519.373	241446.96	2.2208	P	0.7
4	☐	6250.000	6167.711	560200.76	5.1696	P	0.7
5	☐	12500.000	12473.260	1081138.31	10.2660	P	0.7
6	☐	25000.000	24825.274	2160926.87	20.2496	A	2.6
7	☐	50000.000	49425.564	4185151.61	40.1328	A	3.3
8	☐	250000.00	250135.65	20643190.91	202.3569	A	0.5

$$y = 8.0825E-004 * x + 0.1845$$

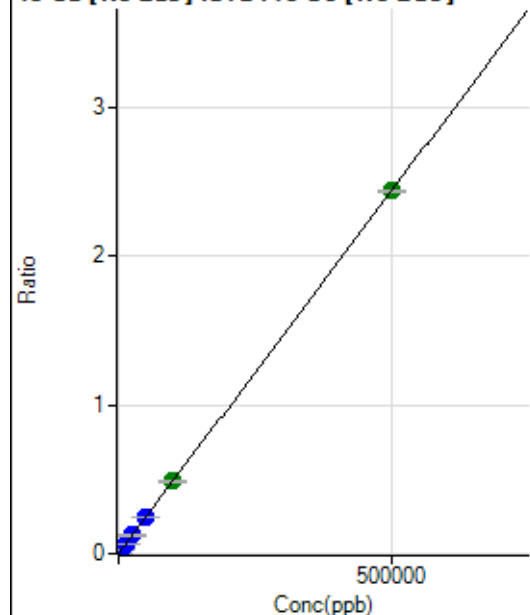
$$R = 1.0000$$

$$DL = 10.9$$

$$BEC = 228.3$$

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	291.22	0.0001	P	10.3
2	☐	500.000	433.295	6045.53	0.0022	P	1.8
3	☐	5000.000	5081.031	66309.28	0.0249	P	1.3
4	☐	12500.000	12549.543	167136.57	0.0613	P	1.7
5	☐	25000.000	25263.367	336567.71	0.1233	P	1.1
6	☐	50000.000	50028.246	667336.35	0.2441	P	2.1
7	☐	100000.00	99862.074	1400509.00	0.4872	A	1.0
8	☐	500000.00	500009.61	6614477.78	2.4390	A	0.6

$$y = 4.8778\text{E-}006 * x + 1.0885\text{E-}004$$

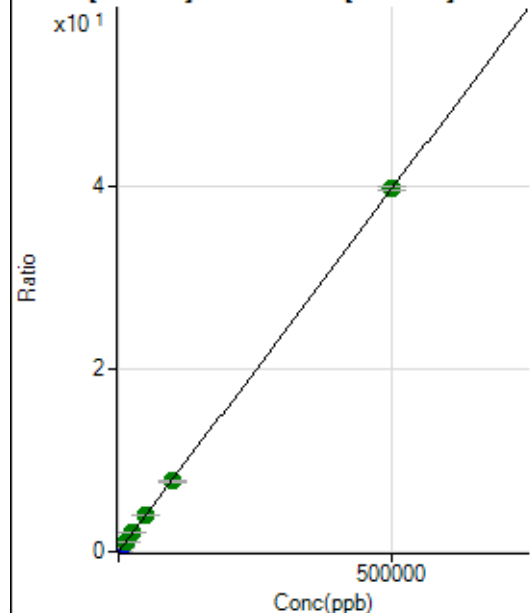
$$R = 1.0000$$

$$DL = 6.893$$

$$BEC = 22.32$$

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	20123.20	0.0075	P	2.3
2	☐	500.000	433.982	114308.04	0.0420	P	1.8
3	☐	5000.000	4990.084	1076862.16	0.4043	P	0.7
4	☐	12500.000	12607.063	2752640.72	1.0099	A	1.9
5	☐	25000.000	25429.833	5538153.83	2.0295	A	1.5
6	☐	50000.000	49217.268	10720234.36	3.9209	A	0.8
7	☐	100000.00	96925.982	22174144.93	7.7143	A	1.3
8	☐	500000.00	500669.07	107982681.5	39.8167	A	1.2

$$y = 7.9512\text{E-}005 * x + 0.0075$$

$$R = 1.0000$$

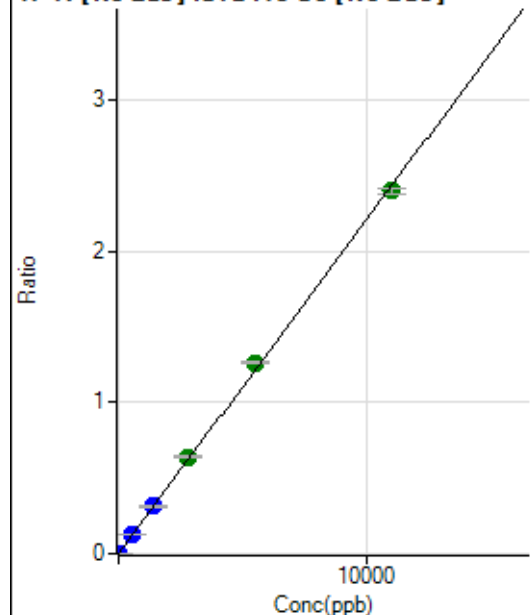
$$DL = 6.39$$

$$BEC = 94.49$$

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	183.34	0.0001	P	21.1
2	☐	5.000	5.071	3236.58	0.0012	P	8.5
3	☐	550.000	579.560	341690.87	0.1283	P	1.9
4	☐	1375.000	1413.346	852602.94	0.3128	P	1.6
5	☐	2750.000	2899.999	1751041.27	0.6417	A	1.1
6	☐	5500.000	5705.595	3451033.06	1.2624	A	0.9
7	☐	11000.000	10853.431	6902386.79	2.4013	A	1.6
8	☐			1719.59	0.0006	P	16.6

$$y = 2.2124\text{E-}004 * x + 6.8715\text{E-}005$$

$$R = 0.9996$$

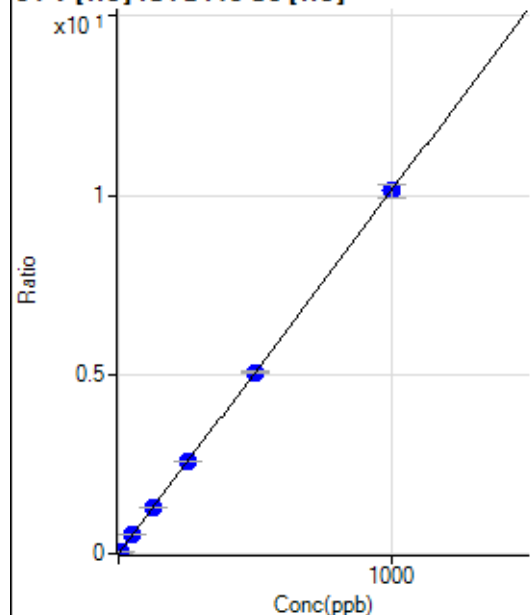
$$DL = 0.1963$$

$$BEC = 0.3106$$

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	7.78	0.0001	P	24.7
2	☐	5.000	4.771	5284.35	0.0484	P	1.2
3	☐	50.000	51.084	56243.30	0.5173	P	0.5
4	☐	125.000	125.679	137905.21	1.2727	P	1.0
5	☐	250.000	255.279	272217.94	2.5850	P	0.7
6	☐	500.000	498.423	538602.12	5.0470	P	1.2
7	☐	1000.000	999.331	1055107.99	10.1192	P	3.8
8	☐			376.67	0.0037	P	23.0

$$y = 0.0101 * x + 7.1161\text{E-}005$$

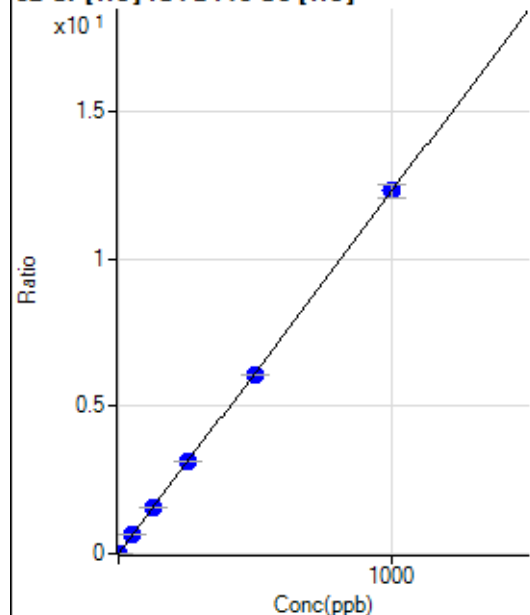
$$R = 1.0000$$

$$DL = 0.005208$$

$$BEC = 0.007028$$

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	488.90	0.0045	P	5.6
2	☐	2.000	1.939	3092.59	0.0283	P	5.3
3	☐	50.000	50.831	68448.43	0.6296	P	0.9
4	☐	125.000	125.613	167892.02	1.5492	P	0.7
5	☐	250.000	254.249	329735.58	3.1310	P	0.4
6	☐	500.000	494.475	649393.04	6.0852	P	0.5
7	☐	1000.000	1001.582	1284650.49	12.3212	P	4.0
8	☐			3576.04	0.0351	P	0.8

$$y = 0.0123 * x + 0.0045$$

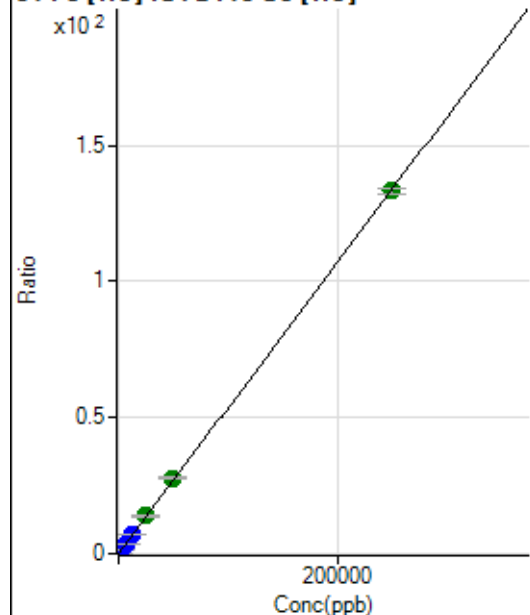
$$R = 1.0000$$

$$DL = 0.06101$$

$$BEC = 0.3637$$

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	559.28	0.0051	P	9.0
2	☐	50.000	46.834	3291.18	0.0301	P	3.4
3	☐	2500.000	2537.558	147935.42	1.3607	P	1.3
4	☐	6250.000	6255.651	362684.63	3.3470	P	0.7
5	☐	12500.000	12749.382	717719.96	6.8161	P	1.6
6	☐	25000.000	25797.217	1471287.07	13.7865	A	1.1
7	☐	50000.000	52071.929	2901311.32	27.8229	A	3.5
8	☐	250000.00	249492.90	13596907.71	133.2887	A	1.8

$$y = 5.3422E-004 * x + 0.0051$$

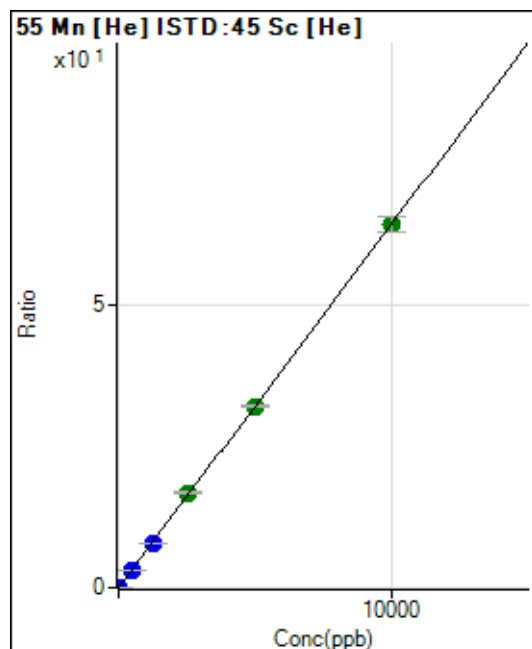
$$R = 1.0000$$

$$DL = 2.584$$

$$BEC = 9.573$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.66	0.0006	P	17.4
2	☐	1.000	0.890	691.13	0.0063	P	6.7
3	☐	500.000	493.187	344714.35	3.1708	P	1.7
4	☐	1250.000	1220.058	849860.60	7.8430	P	1.0
5	☐	2500.000	2605.278	1763390.62	16.7471	A	1.9
6	☐	5000.000	4994.592	3426313.73	32.1054	A	1.7
7	☐	10000.000	9980.468	6688757.47	64.1541	A	4.2
8	☐			4400.73	0.0431	P	5.8

$$y = 0.0064 * x + 6.0978E-004$$

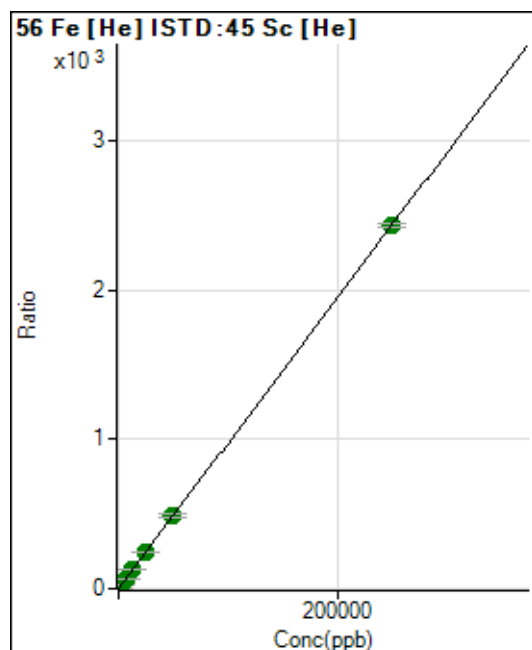
$$R = 0.9999$$

$$DL = 0.04942$$

$$BEC = 0.09486$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3380.09	0.0309	P	4.5
2	☐	50.000	46.056	52377.82	0.4796	P	1.0
3	☐	2500.000	2584.210	2740215.37	25.2059	A	1.6
4	☐	6250.000	6324.505	6679945.46	61.6432	A	0.6
5	☐	12500.000	12945.291	13283062.22	126.1418	A	1.2
6	☐	25000.000	25227.243	26229793.18	245.7905	A	1.2
7	☐	50000.000	50511.380	51302181.70	492.1043	A	4.4
8	☐	250000.00	249850.03	248304487.0	2.434028	A	1.2

$$y = 0.0097 * x + 0.0309$$

$$R = 1.0000$$

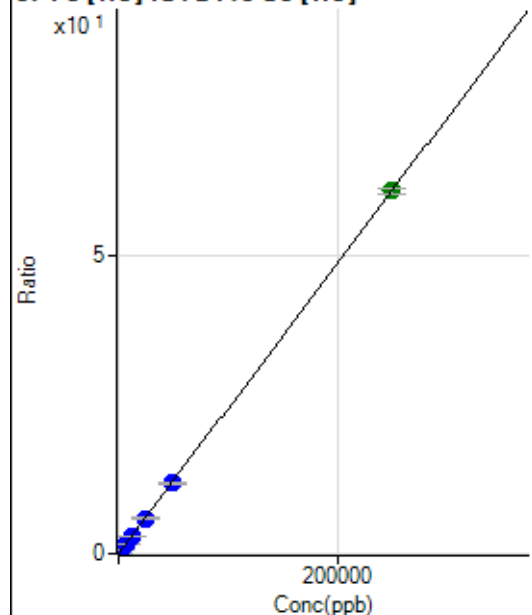
$$DL = 0.4237$$

$$BEC = 3.173$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	298.16	0.0027	P	7.0
2	☐	50.000	44.820	1489.00	0.0136	P	3.7
3	☐	2500.000	2447.988	65068.59	0.5985	P	1.0
4	☐	6250.000	6125.701	161831.74	1.4935	P	1.1
5	☐	12500.000	12358.578	317000.05	3.0103	P	0.9
6	☐	25000.000	24446.751	635187.54	5.9522	P	1.4
7	☐	50000.000	48447.055	1229744.23	11.7929	P	3.5
8	☐	250000.00	250376.61	6216156.27	60.9350	A	1.3

$$y = 2.4336E-004 * x + 0.0027$$

$$R = 1.0000$$

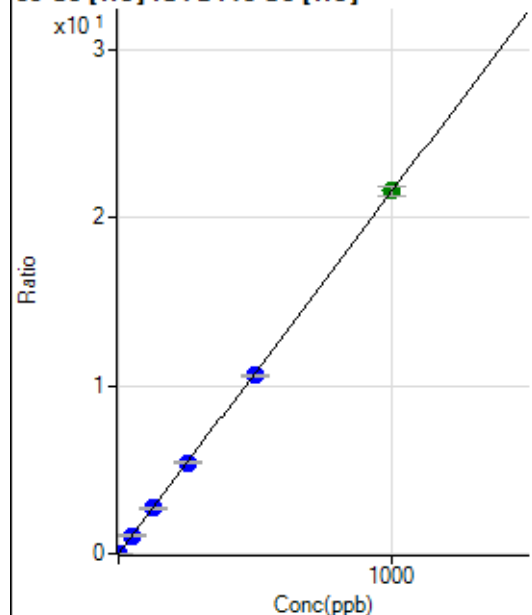
$$DL = 2.355$$

$$BEC = 11.2$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	66.66	0.0006	P	22.3
2	☐	1.000	0.889	2154.63	0.0197	P	4.8
3	☐	50.000	50.403	117844.89	1.0840	P	0.6
4	☐	125.000	125.136	291525.00	2.6903	P	0.7
5	☐	250.000	252.287	571130.57	5.4233	P	0.5
6	☐	500.000	492.530	1129829.71	10.5872	P	1.0
7	☐	1000.000	1003.127	2248991.72	21.5622	A	2.8
8	☐			5339.95	0.0524	P	3.9

$$y = 0.0215 * x + 6.0924E-004$$

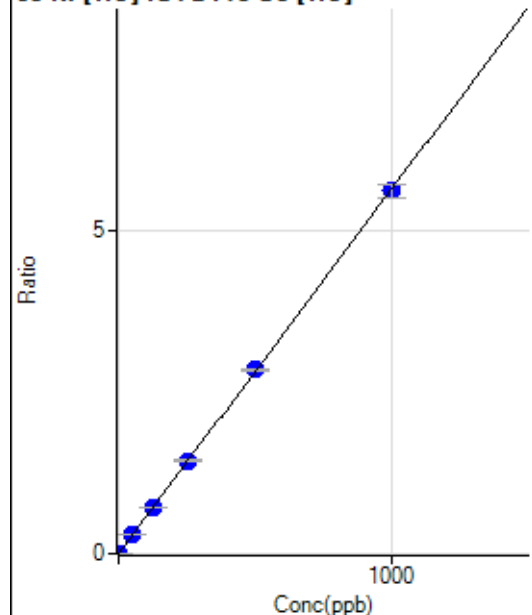
$$R = 1.0000$$

$$DL = 0.01894$$

$$BEC = 0.02834$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	190.00	0.0017	P	20.0
2	☐	1.000	0.890	737.81	0.0068	P	5.5
3	☐	50.000	51.522	31761.02	0.2922	P	2.3
4	☐	125.000	126.443	77429.61	0.7145	P	0.3
5	☐	250.000	255.458	151838.05	1.4418	P	0.2
6	☐	500.000	505.471	304268.23	2.8512	P	1.1
7	☐	1000.000	995.644	585384.10	5.6144	P	3.9
8	☐			1850.14	0.0181	P	5.1

$$y = 0.0056 * x + 0.0017$$

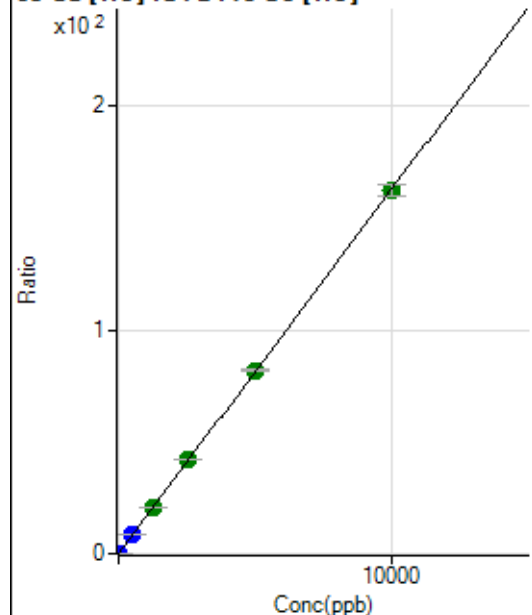
$$R = 1.0000$$

$$DL = 0.1853$$

$$BEC = 0.3082$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	491.13	0.0045	P	8.7
2	☐	2.000	1.869	3813.89	0.0349	P	3.5
3	☐	500.000	505.006	894507.49	8.2281	P	0.8
4	☐	1250.000	1262.034	2227426.65	20.5557	A	1.3
5	☐	2500.000	2590.191	4442609.31	42.1836	A	1.0
6	☐	5000.000	5029.531	8740706.05	81.9063	A	1.2
7	☐	10000.000	9960.932	16916259.89	162.2101	A	3.3
8	☐			8457.05	0.0829	P	5.6

$$y = 0.0163 * x + 0.0045$$

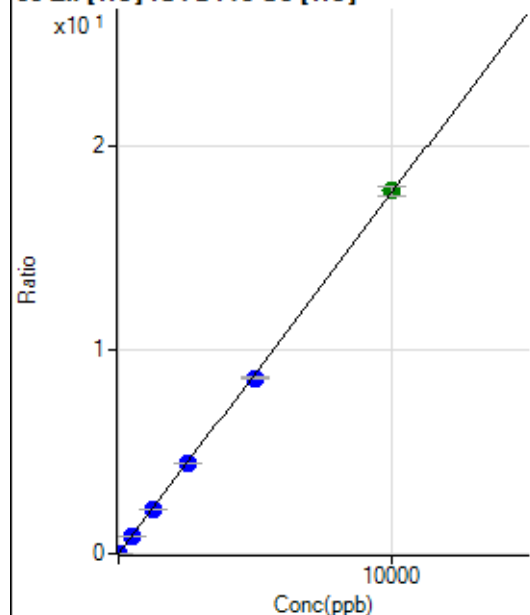
$$R = 0.9999$$

$$DL = 0.07186$$

$$BEC = 0.2758$$

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	172.23	0.0016	P	4.0
2	☐	2.000	1.833	525.57	0.0048	P	2.0
3	☐	500.000	500.138	96207.62	0.8849	P	0.7
4	☐	1250.000	1239.660	237435.26	2.1911	P	1.4
5	☐	2500.000	2505.851	466242.75	4.4274	P	0.3
6	☐	5000.000	4876.399	919305.83	8.6143	P	0.8
7	☐	10000.000	10061.623	1854189.95	17.7726	A	2.8
8	☐			5093.20	0.0499	P	3.4

$$y = 0.0018 * x + 0.0016$$

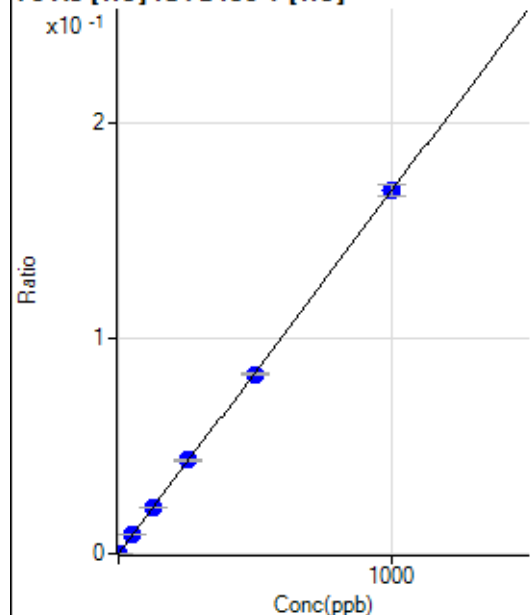
$$R = 0.9999$$

$$DL = 0.1072$$

$$BEC = 0.8917$$

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	86.9
2	☐	1.000	1.001	123.35	0.0002	P	11.9
3	☐	50.000	50.983	6059.58	0.0086	P	2.0
4	☐	125.000	126.662	15061.19	0.0214	P	1.1
5	☐	250.000	257.656	29809.27	0.0435	P	0.9
6	☐	500.000	495.502	59136.77	0.0836	P	0.4
7	☐	1000.000	1000.078	116287.46	0.1688	P	3.3
8	☐			57.68	0.0001	P	11.9

$$y = 1.6879E-004 * x + 6.5739E-006$$

$$R = 1.0000$$

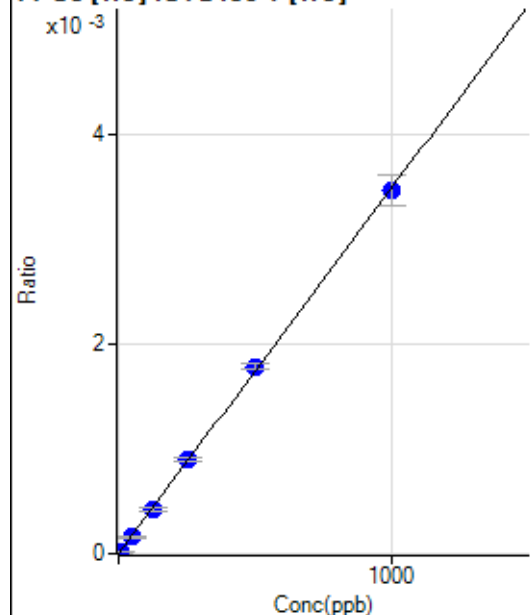
$$DL = 0.1015$$

$$BEC = 0.03895$$

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	1.11	0.0000	P	173.
2	☐	5.000	4.514	12.22	0.0000	P	77.9
3	☐	50.000	44.316	110.00	0.0002	P	10.9
4	☐	125.000	120.257	296.67	0.0004	P	10.1
5	☐	250.000	258.153	618.91	0.0009	P	2.8
6	☐	500.000	512.111	1265.63	0.0018	P	3.8
7	☐	1000.000	992.786	2388.01	0.0035	P	8.5
8	☐			1.11	0.0000	P	173.

$$y = 3.4924\text{E-}006 * x + 1.5643\text{E-}006$$

$$R = 0.9998$$

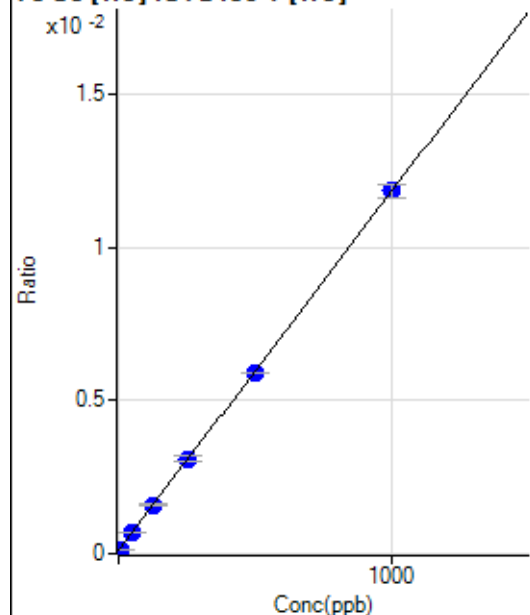
$$DL = 2.327$$

$$BEC = 0.4479$$

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	77.68	0.0001	P	12.9
2	☐	5.000	3.030	101.68	0.0001	P	8.0
3	☐	50.000	48.477	476.72	0.0007	P	4.9
4	☐	125.000	125.577	1113.50	0.0016	P	3.1
5	☐	250.000	255.678	2128.71	0.0031	P	7.3
6	☐	500.000	493.794	4169.71	0.0059	P	0.7
7	☐	1000.000	1001.697	8163.19	0.0119	P	3.7
8	☐			70.68	0.0001	P	16.9

$$y = 1.1722\text{E-}005 * x + 1.0930\text{E-}004$$

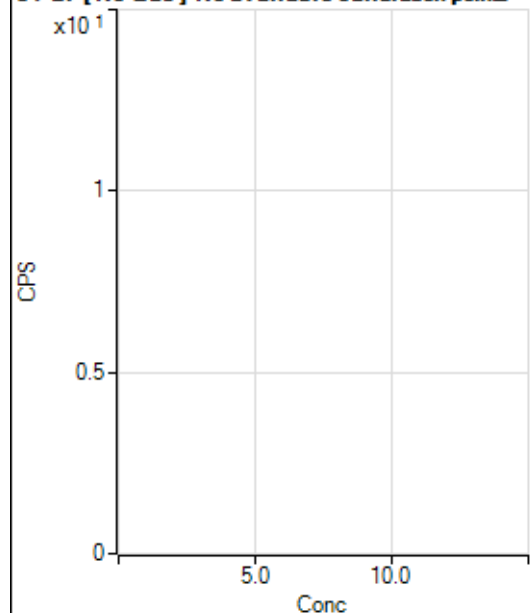
$$R = 1.0000$$

$$DL = 3.599$$

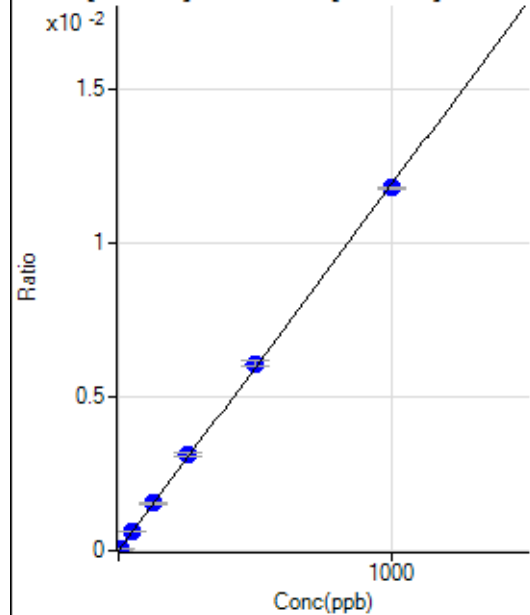
$$BEC = 9.325$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14736.38		P	4.6
2	☐			15284.19		P	3.2
3	☐			14799.88		P	3.8
4	☐			15257.46		P	1.0
5	☐			15287.54		P	7.1
6	☐			14889.92		P	2.0
7	☐			14382.34		P	4.3
8	☐			15975.70		P	0.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	21.06	0.0000	P	85.6
2	☐	5.000	4.783	329.22	0.0001	P	27.5
3	☐	50.000	51.674	3272.47	0.0006	P	3.4
4	☐	125.000	128.505	8308.64	0.0015	P	0.5
5	☐	250.000	261.653	16654.95	0.0031	P	2.8
6	☐	500.000	511.579	33537.03	0.0061	P	3.4
7	☐	1000.000	990.776	66929.91	0.0118	P	0.6
8	☐			92.98	0.0000	P	13.2

$$y = 1.1916E-005 * x + 3.9619E-006$$

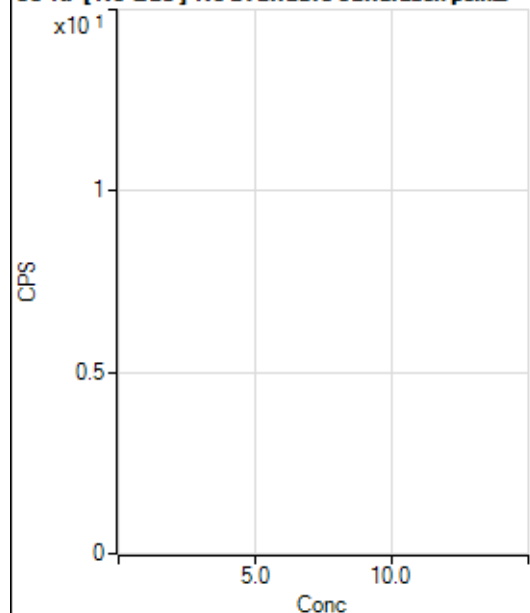
$$R = 0.9998$$

$$DL = 0.8541$$

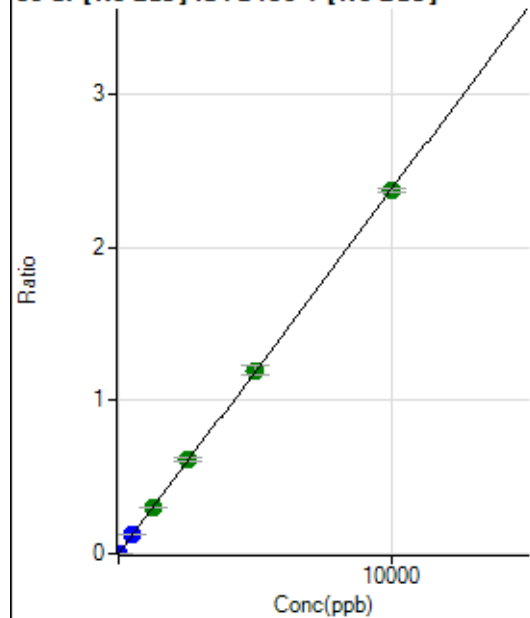
$$BEC = 0.3325$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			637.80		P	3.2
2	☐			644.47		P	13.7
3	☐			701.14		P	11.5
4	☐			712.25		P	6.1
5	☐			683.36		P	5.6
6	☐			665.58		P	2.3
7	☐			661.13		P	3.6
8	☐			704.47		P	5.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1000.06	0.0002	P	21.3
2	☐	1.000	0.991	2300.26	0.0004	P	9.9
3	☐	500.000	507.174	638566.30	0.1209	P	1.1
4	☐	1250.000	1268.282	1634176.74	0.3020	A	1.9
5	☐	2500.000	2588.396	3288040.33	0.6162	A	2.6
6	☐	5000.000	5029.224	6578381.48	1.1971	A	5.7
7	☐	10000.000	9960.645	13435721.65	2.3708	A	1.1
8	☐			11496.74	0.0021	P	5.2

$$y = 2.3799E-004 * x + 1.9045E-004$$

$$R = 0.9999$$

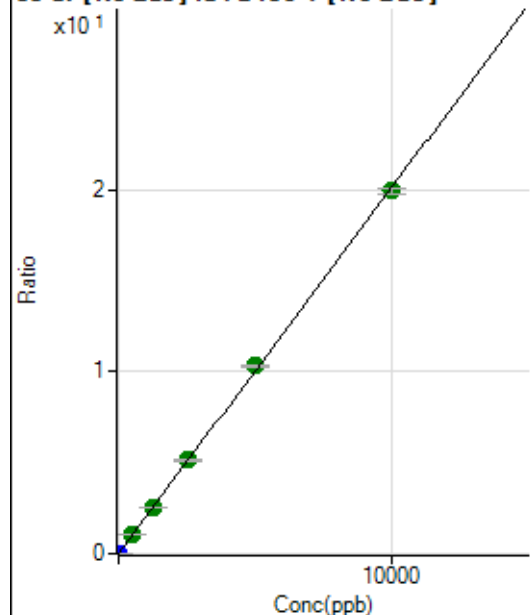
$$DL = 0.5123$$

$$BEC = 0.8003$$

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	180.56	0.0000	P	32.1
2	☐	1.000	0.952	10515.36	0.0019	P	0.9
3	☐	500.000	512.205	5440667.66	1.0301	A	1.8
4	☐	1250.000	1262.759	13742238.85	2.5394	A	0.8
5	☐	2500.000	2553.609	27404878.05	5.1353	A	1.2
6	☐	5000.000	5135.186	56807209.60	10.3268	A	1.4
7	☐	10000.000	9916.800	113016053.9	19.9425	A	1.7
8	☐			98062.90	0.0181	P	9.6

$$y = 0.0020 * x + 3.4412E-005$$

$$R = 0.9998$$

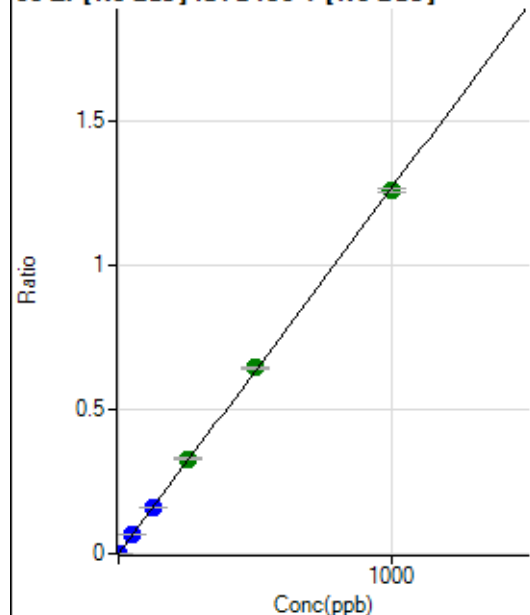
$$DL = 0.01649$$

$$BEC = 0.01711$$

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	344.46	0.0001	P	28.1
2	☐	1.000	0.884	6404.44	0.0012	P	2.8
3	☐	50.000	51.244	343943.03	0.0651	P	2.1
4	☐	125.000	127.526	876526.20	0.1620	P	0.7
5	☐	250.000	260.289	1763598.41	0.3305	A	1.5
6	☐	500.000	508.296	3549978.73	0.6453	A	1.7
7	☐	1000.000	992.902	7144313.18	1.2605	A	1.1
8	☐			5067.86	0.0009	P	6.0

$$y = 0.0013 * x + 6.5648E-005$$

$$R = 0.9999$$

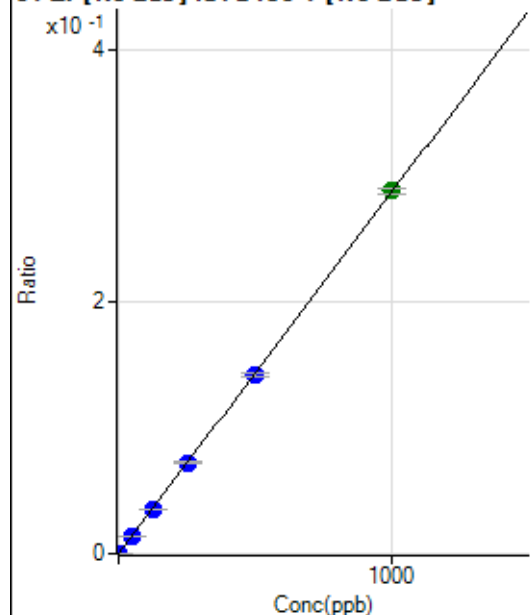
$$DL = 0.04365$$

$$BEC = 0.05171$$

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	58.33	0.0000	P	26.0
2	☐	1.000	0.891	1439.01	0.0003	P	2.2
3	☐	50.000	49.221	74664.94	0.0141	P	1.8
4	☐	125.000	122.795	190695.49	0.0353	P	3.0
5	☐	250.000	251.442	385123.63	0.0722	P	1.3
6	☐	500.000	492.190	776931.67	0.1413	P	2.2
7	☐	1000.000	1003.859	1632845.53	0.2881	A	1.3
8	☐			1069.52	0.0002	P	6.2

$$y = 2.8699\text{E-}004 * x + 1.1103\text{E-}005$$

$$R = 1.0000$$

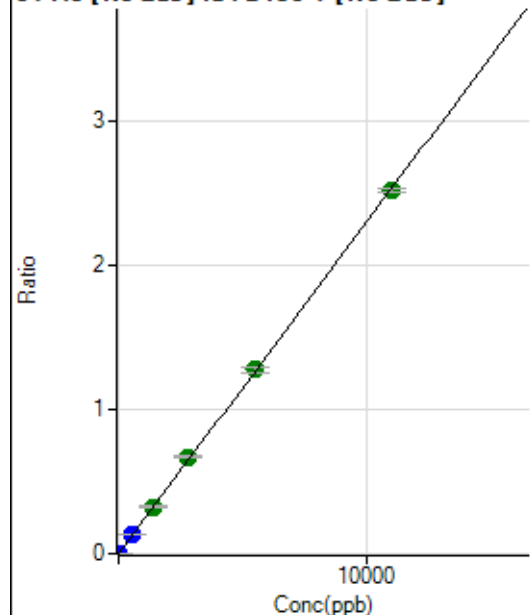
$$DL = 0.03014$$

$$BEC = 0.03869$$

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	136.11	0.0000	P	12.7
2	☐	5.000	5.595	7090.87	0.0013	P	6.0
3	☐	550.000	568.702	692130.25	0.1310	P	0.6
4	☐	1375.000	1415.079	1763754.56	0.3260	A	2.5
5	☐	2750.000	2905.569	3571694.52	0.6694	A	1.8
6	☐	5500.000	5546.413	7025658.58	1.2777	A	3.0
7	☐	11000.000	10931.956	14272483.48	2.5183	A	1.2
8	☐			6401.70	0.0012	P	12.9

$$y = 2.3036\text{E-}004 * x + 2.5856\text{E-}005$$

$$R = 0.9999$$

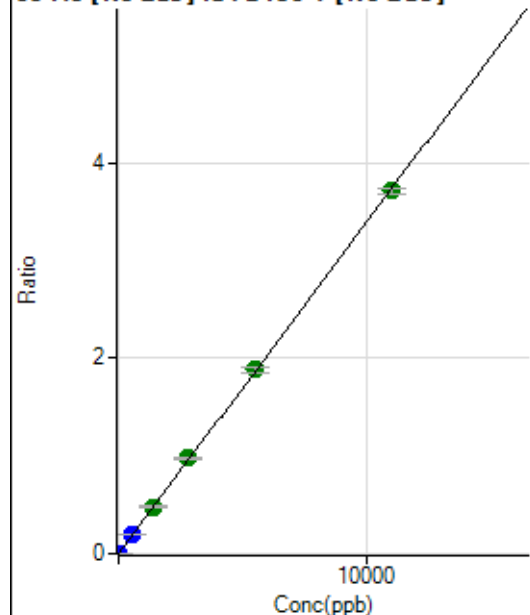
$$DL = 0.04272$$

$$BEC = 0.1122$$

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	38.89	0.0000	P	32.6
2	☐	5.000	4.735	8702.89	0.0016	P	2.9
3	☐	550.000	562.064	1007097.75	0.1907	P	0.7
4	☐	1375.000	1400.984	2570795.96	0.4752	A	2.9
5	☐	2750.000	2875.747	5205626.20	0.9755	A	1.2
6	☐	5500.000	5550.268	10351675.40	1.8827	A	3.2
7	☐	11000.000	10939.578	21029032.07	3.7108	A	1.7
8	☐			7408.05	0.0014	P	14.4

$$y = 3.3920\text{E-}004 * x + 7.3805\text{E-}006$$

$$R = 0.9999$$

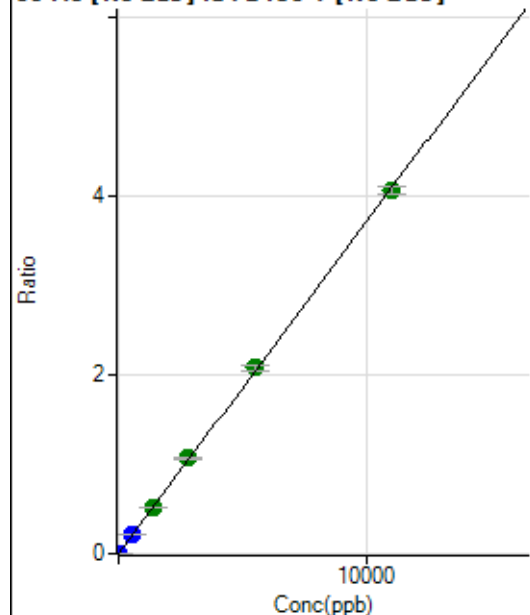
$$DL = 0.02129$$

$$BEC = 0.02176$$

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	125.01	0.0000	P	18.7
2	☐	5.000	4.894	9953.84	0.0018	P	3.1
3	☐	550.000	566.661	1114153.16	0.2110	P	1.7
4	☐	1375.000	1401.506	2822736.72	0.5217	A	2.0
5	☐	2750.000	2864.337	5689198.00	1.0663	A	2.1
6	☐	5500.000	5600.914	11464910.58	2.0849	A	2.9
7	☐	11000.000	10916.813	23028859.02	4.0637	A	2.0
8	☐			12981.67	0.0024	P	11.2

$$y = 3.7224\text{E-}004 * x + 2.3781\text{E-}005$$

$$R = 0.9999$$

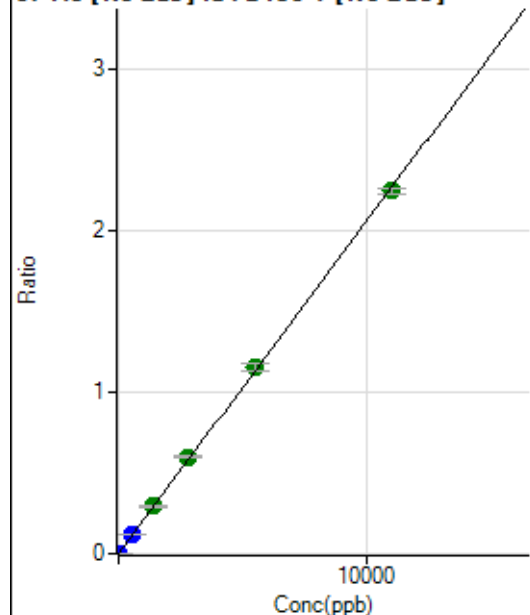
$$DL = 0.03584$$

$$BEC = 0.06389$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.33	0.0000	P	98.9
2	☐	5.000	4.928	5479.03	0.0010	P	1.4
3	☐	550.000	581.161	631743.62	0.1196	P	1.3
4	☐	1375.000	1423.415	1585361.31	0.2930	A	2.3
5	☐	2750.000	2912.819	3198897.64	0.5995	A	1.8
6	☐	5500.000	5603.502	6340601.44	1.1533	A	4.0
7	☐	11000.000	10899.934	12713385.18	2.2434	A	1.9
8	☐			4703.74	0.0009	P	12.5

$$y = 2.0582\text{E-}004 * x + 1.5679\text{E-}006$$

$$R = 0.9998$$

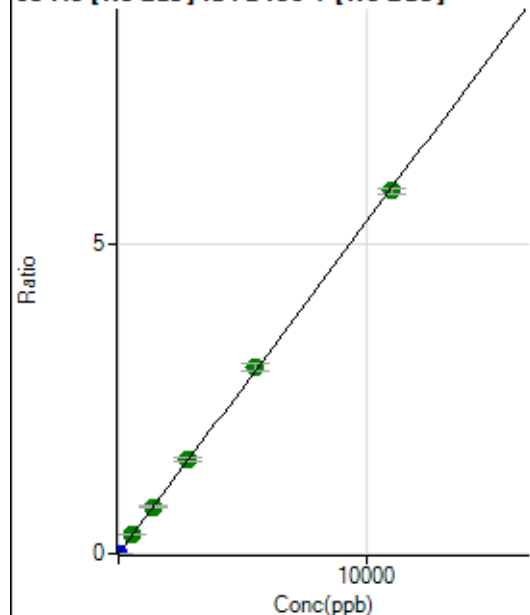
$$DL = 0.0226$$

$$BEC = 0.007618$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	75.00	0.0000	P	20.5
2	☐	5.000	4.707	13671.01	0.0025	P	4.3
3	☐	550.000	581.647	1645289.12	0.3115	A	2.5
4	☐	1375.000	1405.223	4071329.17	0.7527	A	3.7
5	☐	2750.000	2827.156	8078932.73	1.5142	A	3.0
6	☐	5500.000	5613.159	16530288.56	3.0064	A	3.3
7	☐	11000.000	10918.771	33142761.51	5.8481	A	1.3
8	☐			12274.38	0.0023	P	12.0

$$y = 5.3560\text{E-}004 * x + 1.4216\text{E-}005$$

$$R = 0.9999$$

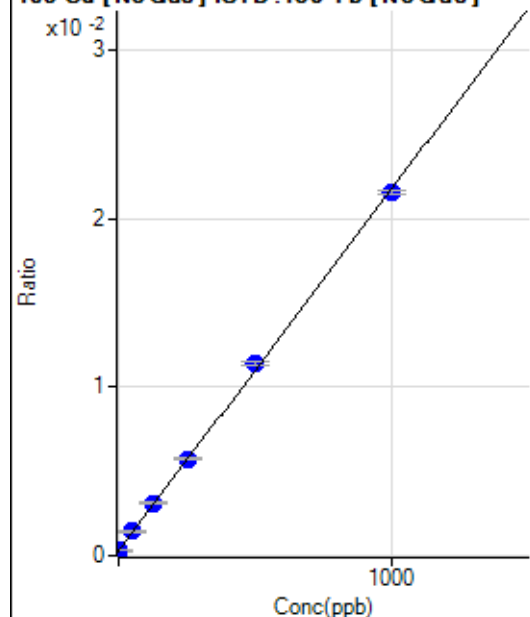
$$DL = 0.01634$$

$$BEC = 0.02654$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1058.41	0.0003	P	2.9
2	☐	1.000	1.586	1186.20	0.0003	P	17.2
3	☐	50.000	54.027	5284.53	0.0014	P	4.5
4	☐	125.000	132.469	12052.75	0.0031	P	4.5
5	☐	250.000	253.975	22146.15	0.0057	P	2.5
6	☐	500.000	516.873	44760.01	0.0114	P	2.3
7	☐	1000.000	989.434	88822.66	0.0216	P	1.1
8	☐			1269.54	0.0003	P	9.3

$$y = 2.1505E-005 * x + 2.8375E-004$$

$$R = 0.9998$$

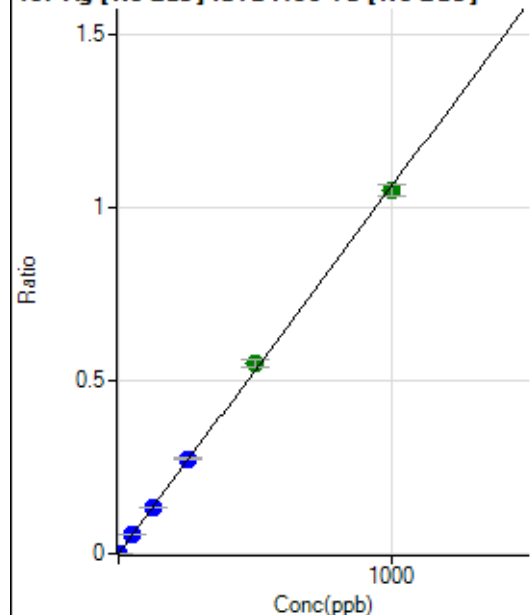
$$DL = 1.143$$

$$BEC = 13.19$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	47.22	0.0000	P	54.6
2	☐	1.000	0.976	3917.34	0.0010	P	3.7
3	☐	50.000	53.316	206744.63	0.0566	P	3.2
4	☐	125.000	127.208	519222.91	0.1349	P	1.0
5	☐	250.000	257.710	1053647.68	0.2733	P	2.1
6	☐	500.000	518.836	2160395.08	0.5503	A	3.7
7	☐	1000.000	988.213	4317383.25	1.0481	A	3.0
8	☐			1447.35	0.0004	P	10.0

$$y = 0.0011 * x + 1.2678E-005$$

$$R = 0.9997$$

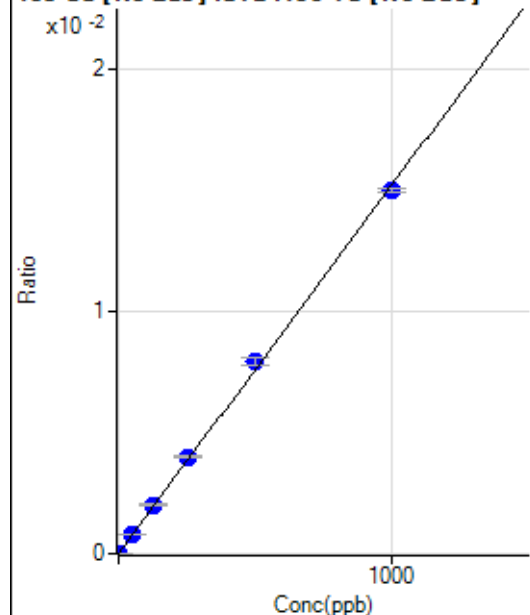
$$DL = 0.01958$$

$$BEC = 0.01195$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	50.5
2	☐	1.000	1.569	105.56	0.0000	P	19.7
3	☐	50.000	52.457	2929.51	0.0008	P	2.6
4	☐	125.000	131.306	7692.53	0.0020	P	2.6
5	☐	250.000	262.102	15364.36	0.0040	P	1.5
6	☐	500.000	521.125	31097.78	0.0079	P	3.7
7	☐	1000.000	985.500	61689.40	0.0150	P	1.2
8	☐			76.39	0.0000	P	35.9

$$y = 1.5190\text{E-}005 * x + 4.4706\text{E-}006$$

$$R = 0.9996$$

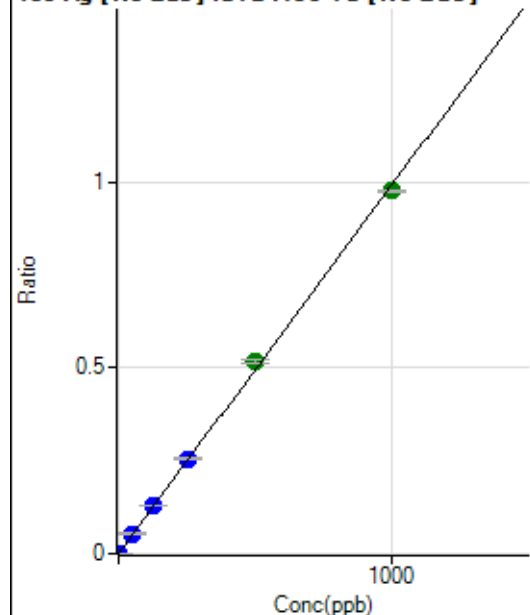
$$DL = 0.446$$

$$BEC = 0.2943$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0000	P	50.5
2	☐	1.000	0.988	3692.26	0.0010	P	4.7
3	☐	50.000	54.693	198193.29	0.0542	P	2.0
4	☐	125.000	130.698	498415.00	0.1295	P	0.4
5	☐	250.000	257.899	985194.76	0.2556	P	1.5
6	☐	500.000	523.629	2037844.58	0.5189	A	1.6
7	☐	1000.000	985.264	4022247.96	0.9764	A	0.9
8	☐			1425.11	0.0004	P	12.4

$$y = 9.9097\text{E-}004 * x + 8.9412\text{E-}006$$

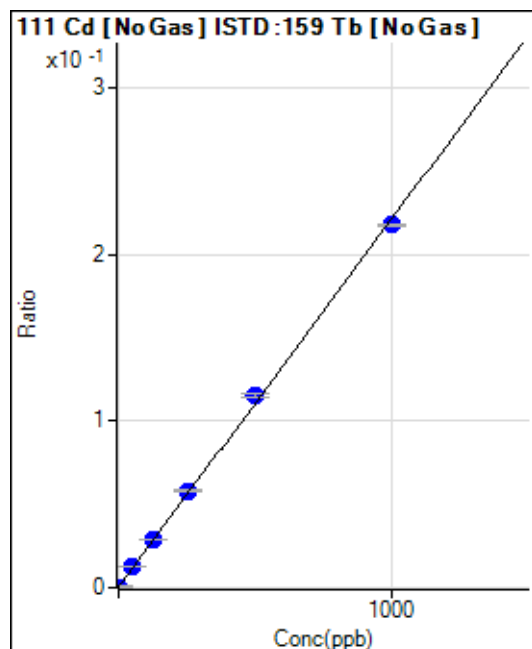
$$R = 0.9995$$

$$DL = 0.01367$$

$$BEC = 0.009023$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1110.91	0.0003	P	2.3
2	☐	1.000	1.142	2053.46	0.0006	P	12.3
3	☐	50.000	55.152	45602.36	0.0125	P	2.2
4	☐	125.000	131.322	112698.98	0.0293	P	0.7
5	☐	250.000	262.367	224413.25	0.0582	P	1.9
6	☐	500.000	522.112	453811.33	0.1156	P	1.5
7	☐	1000.000	984.804	896867.76	0.2177	P	0.6
8	☐			1665.38	0.0004	P	8.9

$$y = 2.2076\text{E-}004 * x + 2.9782\text{E-}004$$

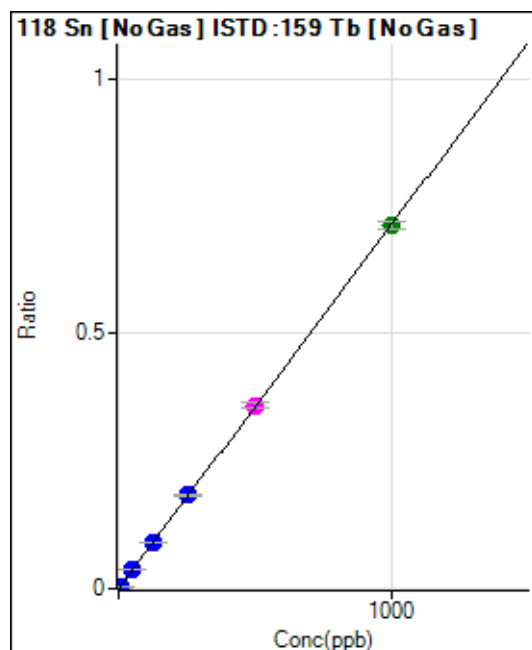
$$R = 0.9995$$

$$DL = 0.09291$$

$$BEC = 1.349$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	361.13	0.0001	P	20.8
2	☐	5.000	4.916	13476.47	0.0036	P	4.0
3	☐	50.000	52.369	137030.77	0.0375	P	2.4
4	☐	125.000	126.562	348036.10	0.0904	P	1.9
5	☐	250.000	256.066	704995.25	0.1829	P	2.1
6	☐	500.000	503.626	1412010.51	0.3596	M	3.6
7	☐	1000.000	996.357	2930824.50	0.7114	A	2.2
8	☐			2747.60	0.0007	P	5.9

$$y = 7.1388\text{E-}004 * x + 9.6776\text{E-}005$$

$$R = 1.0000$$

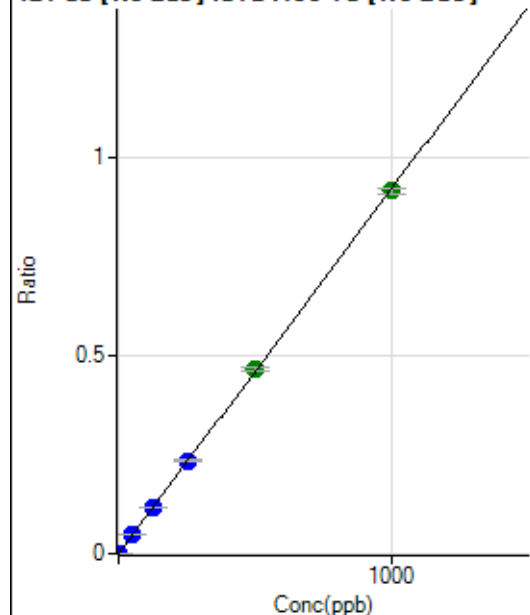
$$DL = 0.08476$$

$$BEC = 0.1356$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	40.11	0.0000	P	23.5
2	☐	2.000	1.776	6143.97	0.0016	P	2.3
3	☐	50.000	52.307	175915.25	0.0481	P	1.4
4	☐	125.000	125.470	443955.27	0.1154	P	1.2
5	☐	250.000	255.365	905078.53	0.2348	P	1.4
6	☐	500.000	507.871	1833700.61	0.4670	A	1.9
7	☐	1000.000	994.550	3766923.23	0.9144	A	1.8
8	☐			2962.74	0.0007	P	2.5

$$y = 9.1941\text{E-}004 * x + 1.0734\text{E-}005$$

$$R = 0.9999$$

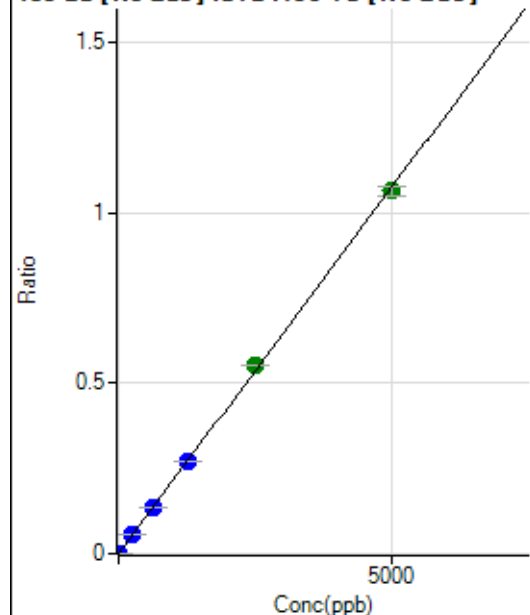
$$DL = 0.008232$$

$$BEC = 0.01168$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25.00	0.0000	P	58.3
2	☐	10.000	9.345	7524.50	0.0020	P	4.7
3	☐	250.000	263.193	206567.63	0.0565	P	2.1
4	☐	625.000	637.052	526208.11	0.1367	P	0.8
5	☐	1250.000	1263.208	1045257.97	0.2712	P	0.7
6	☐	2500.000	2578.818	2174164.98	0.5535	A	0.5
7	☐	5000.000	4955.124	4381560.38	1.0636	A	2.4
8	☐			2208.61	0.0006	P	23.3

$$y = 2.1465\text{E-}004 * x + 6.7311\text{E-}006$$

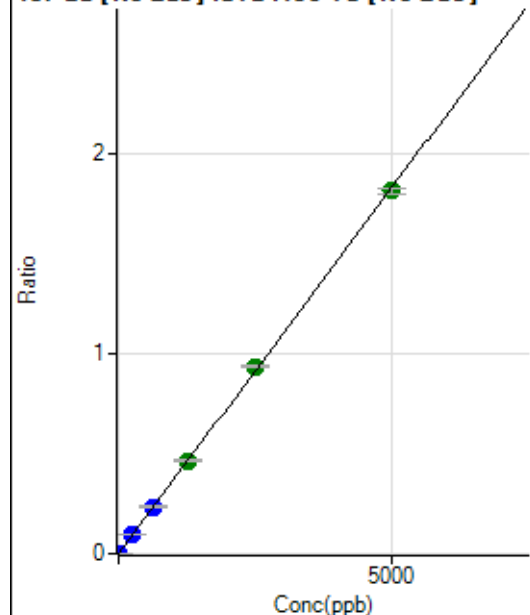
$$R = 0.9998$$

$$DL = 0.05481$$

$$BEC = 0.03136$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16.67	0.0000	P	50.6
2	☐	10.000	9.541	13056.66	0.0035	P	2.1
3	☐	250.000	265.911	355312.40	0.0972	P	2.7
4	☐	625.000	643.243	904742.82	0.2351	P	1.1
5	☐	1250.000	1271.768	1791697.37	0.4648	A	2.9
6	☐	2500.000	2560.510	3675542.62	0.9359	A	1.3
7	☐	5000.000	4961.228	7470181.16	1.8134	A	1.5
8	☐			3903.52	0.0010	P	20.8

$$y = 3.6550E-004 * x + 4.4816E-006$$

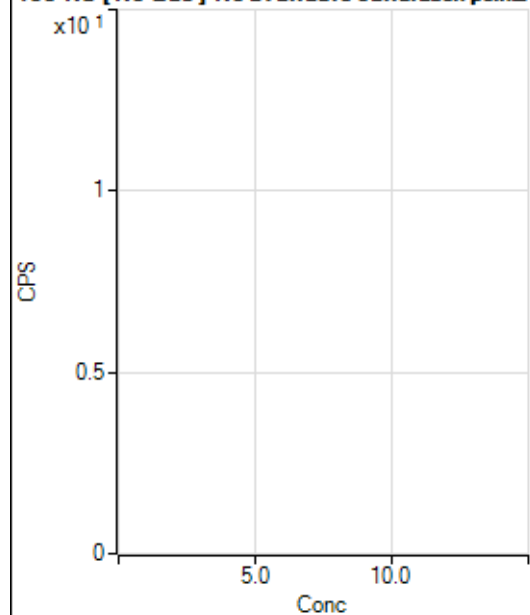
$$R = 0.9999$$

$$DL = 0.0186$$

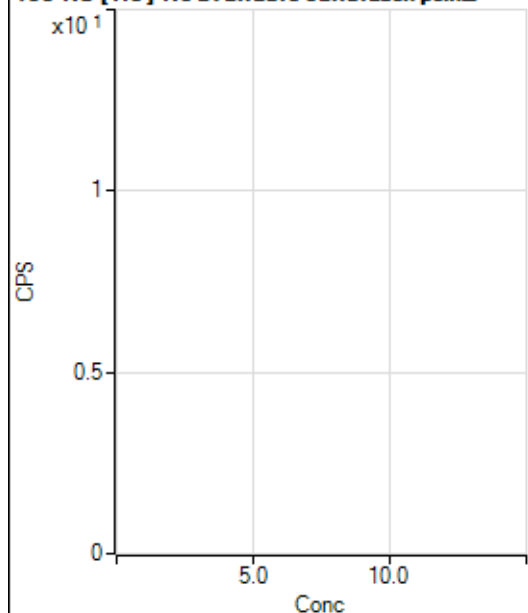
$$BEC = 0.01226$$

Weight: <None>

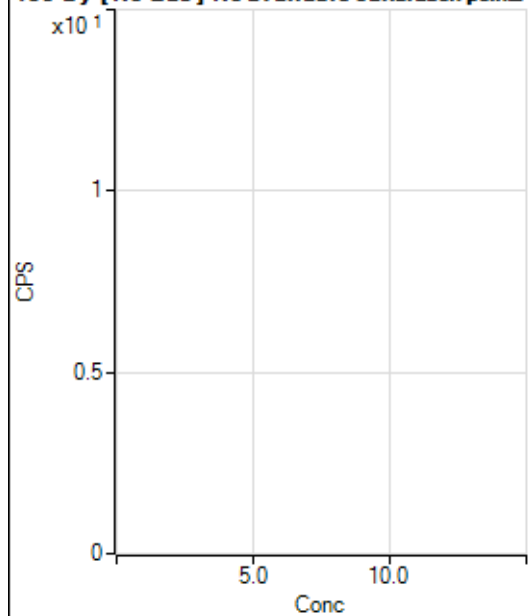
Min Conc: 0

150 Nd [No Gas] No available calibration points

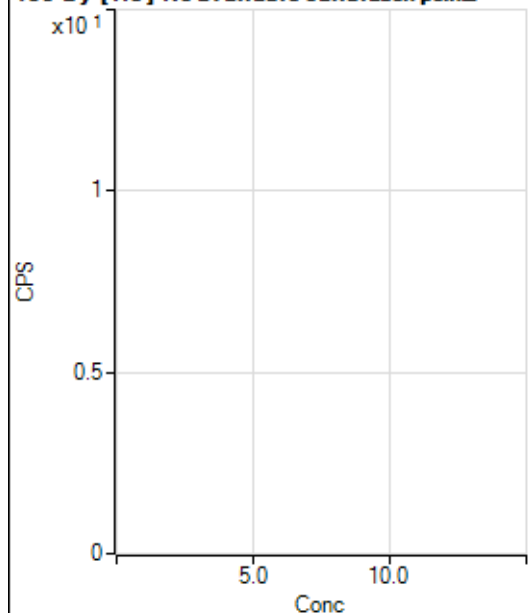
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			8.89		P	86.6
3	☐			26.67		P	90.1
4	☐			48.89		P	28.4
5	☐			68.89		P	29.6
6	☐			146.67		P	22.7
7	☐			280.01		P	10.4
8	☐			44.44		P	31.2

150 Nd [He] No available calibration points

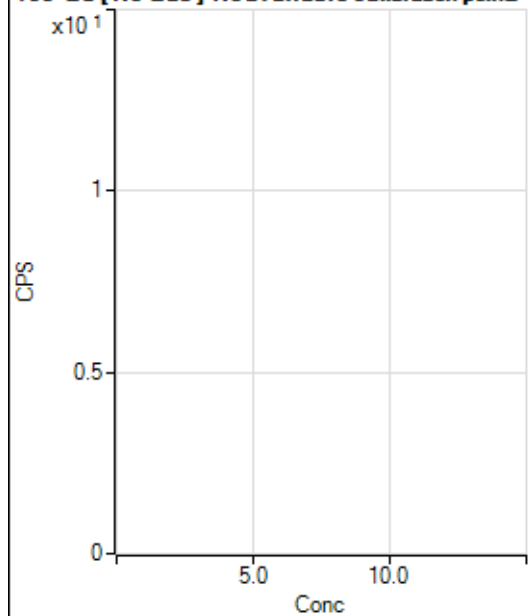
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.
3	☐			2.22		P	86.6
4	☐			5.56		P	34.7
5	☐			11.11		P	91.7
6	☐			20.00		P	57.7
7	☐			35.56		P	53.3
8	☐			14.45		P	48.0

156 Dy [No Gas] No available calibration points

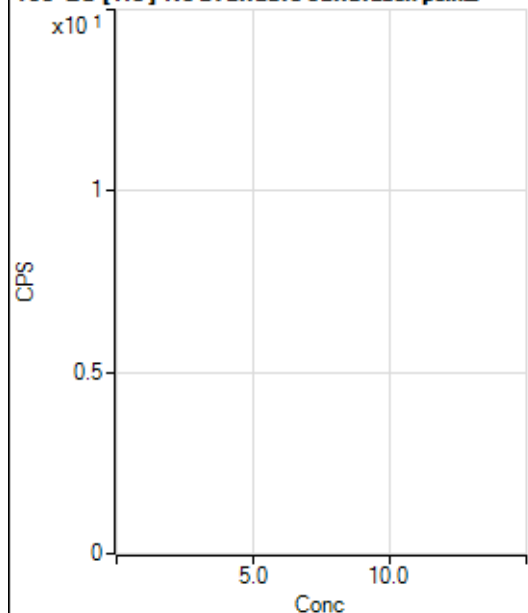
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.45		P	24.7
2	☐			25.00		P	33.3
3	☐			33.34		P	66.1
4	☐			13.89		P	34.7
5	☐			75.00		P	19.3
6	☐			83.34		P	70.0
7	☐			180.56		P	22.8
8	☐			616.70		P	14.6

156 Dy [He] No available calibration points

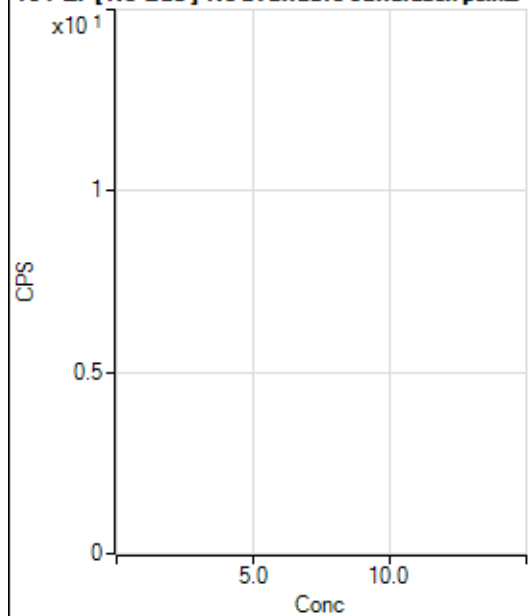
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			0.00		P	
3	☐			10.00		P	88.2
4	☐			10.00		P	33.3
5	☐			26.67		P	54.5
6	☐			53.33		P	22.5
7	☐			80.00		P	11.0
8	☐			321.12		P	8.9

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

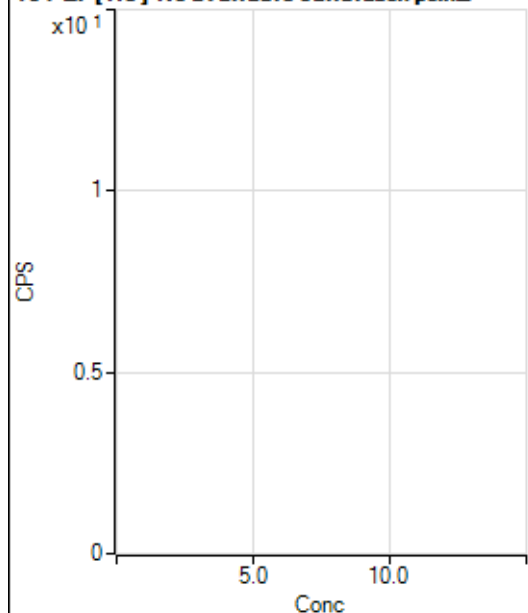
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.00		P	66.7
2	☐			30.55		P	15.7
3	☐			30.56		P	31.5
4	☐			41.67		P	87.2
5	☐			58.34		P	51.5
6	☐			69.45		P	30.2
7	☐			172.23		P	30.7
8	☐			530.58		P	18.4

160 Gd [He] No available calibration points

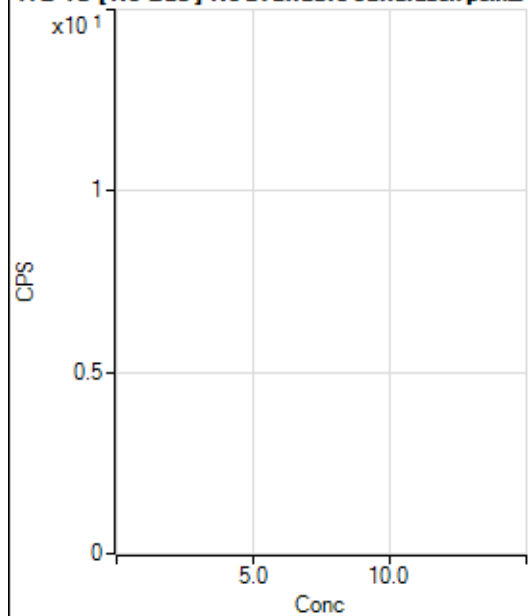
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.00		P	29.4
2	☐			32.22		P	26.0
3	☐			27.78		P	48.5
4	☐			42.22		P	19.9
5	☐			64.45		P	24.4
6	☐			70.00		P	19.0
7	☐			115.56		P	26.8
8	☐			351.12		P	12.6

164 Er [No Gas] No available calibration points

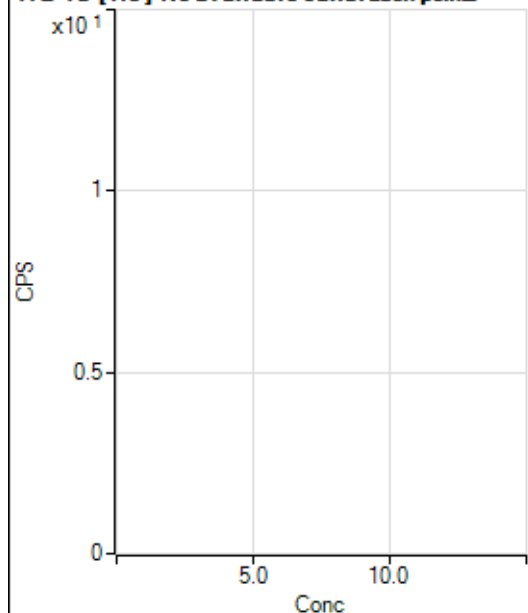
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.67		P	25.0
2	☐			22.22		P	43.3
3	☐			36.11		P	58.1
4	☐			52.78		P	39.7
5	☐			52.78		P	45.6
6	☐			58.33		P	37.8
7	☐			100.00		P	36.3
8	☐			136.11		P	7.1

164 Er [He] No available calibration points

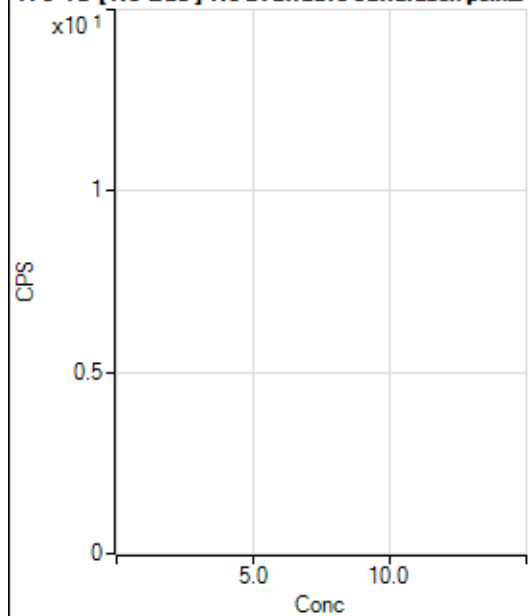
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.66		P	34.6
2	☐			16.67		P	69.3
3	☐			20.00		P	44.1
4	☐			14.44		P	113.
5	☐			22.22		P	37.8
6	☐			23.33		P	62.3
7	☐			50.00		P	24.0
8	☐			44.45		P	15.6

172 Yb [No Gas] No available calibration points

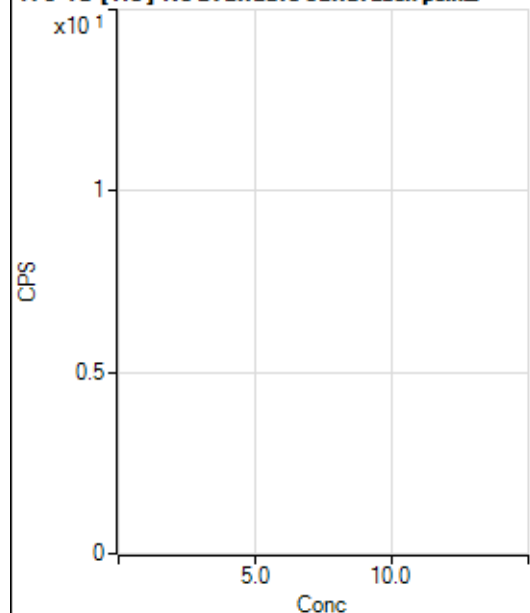
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.44		P	89.2
2	☐			13.89		P	34.7
3	☐			13.89		P	34.7
4	☐			38.89		P	65.5
5	☐			47.22		P	20.4
6	☐			36.11		P	58.1
7	☐			52.78		P	9.1
8	☐			63.89		P	27.2

172 Yb [He] No available calibration points

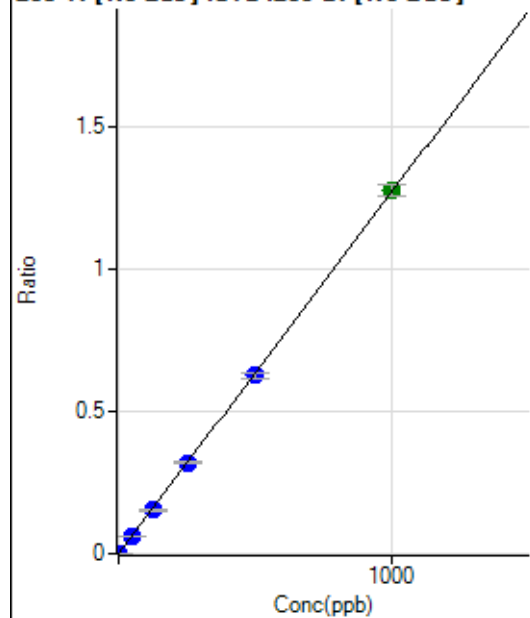
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			9.26		P	34.6
2	☐			7.41		P	43.2
3	☐			7.41		P	43.2
4	☐			9.26		P	34.6
5	☐			9.26		P	91.7
6	☐			20.37		P	41.7
7	☐			42.59		P	15.1
8	☐			31.48		P	27.0

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			355.57		P	18.8
2	☐			369.46		P	3.4
3	☐			872.28		P	2.0
4	☐			1766.84		P	7.5
5	☐			3456.12		P	4.8
6	☐			6276.67		P	2.5
7	☐			12422.81		P	1.1
8	☐			436.13		P	10.5

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2452.13		P	3.7
2	☐			2340.99		P	5.1
3	☐			2683.66		P	2.2
4	☐			3241.19		P	2.6
5	☐			3795.07		P	5.7
6	☐			5529.03		P	6.0
7	☐			8788.24		P	2.1
8	☐			2459.53		P	5.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	247.23	0.0001	P	14.4
2	☐	1.000	0.904	2653.13	0.0013	P	3.6
3	☐	50.000	49.464	131219.62	0.0629	P	0.6
4	☐	125.000	120.650	329003.58	0.1533	P	4.0
5	☐	250.000	251.592	676663.86	0.3195	P	1.4
6	☐	500.000	492.676	1357973.09	0.6256	P	3.3
7	☐	1000.000	1003.835	2864322.37	1.2746	A	3.1
8	☐			1047.30	0.0005	P	23.2

$$y = 0.0013 * x + 1.1786E-004$$

$$R = 1.0000$$

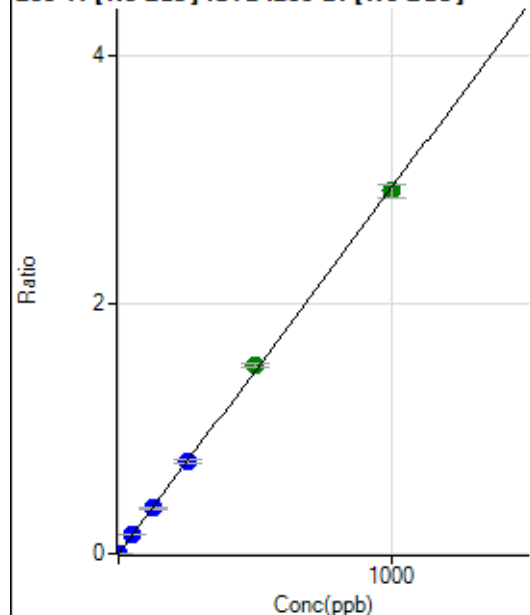
$$DL = 0.04004$$

$$BEC = 0.09283$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	686.15	0.0003	P	3.8
2	☐	1.000	0.899	6215.56	0.0030	P	5.7
3	☐	50.000	50.975	312722.01	0.1500	P	2.8
4	☐	125.000	124.352	784143.03	0.3654	P	3.7
5	☐	250.000	252.364	1569178.69	0.7411	P	3.5
6	☐	500.000	514.878	3281626.29	1.5117	A	2.5
7	☐	1000.000	992.003	6545076.88	2.9123	A	3.7
8	☐			2597.58	0.0012	P	8.9

$$y = 0.0029 * x + 3.2690E-004$$

$$R = 0.9998$$

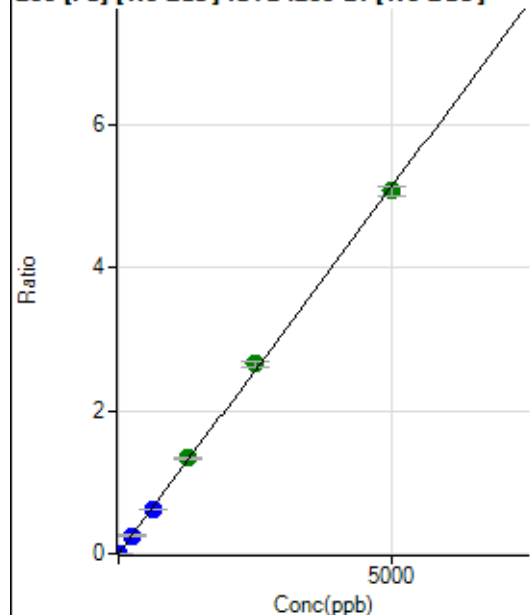
$$DL = 0.01266$$

$$BEC = 0.1114$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	412.98	0.0002	P	13.9
2	☐	1.000	0.889	2326.18	0.0011	P	6.8
3	☐	250.000	247.442	530612.21	0.2544	P	2.8
4	☐	625.000	600.202	1324193.56	0.6169	P	1.7
5	☐	1250.000	1306.262	2842208.89	1.3423	A	2.0
6	☐	2500.000	2588.415	5773826.17	2.6597	A	3.0
7	☐	5000.000	4944.955	11419183.12	5.0810	A	2.4
8	☐			7735.81	0.0037	P	7.7

$$y = 0.0010 * x + 1.9691E-004$$

$$R = 0.9997$$

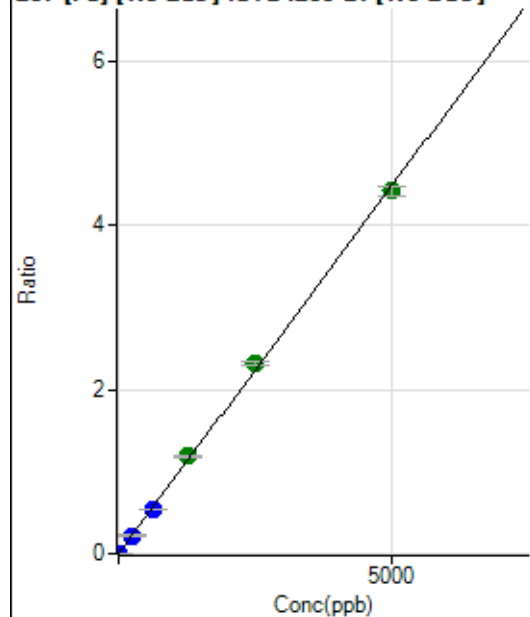
$$DL = 0.07971$$

$$BEC = 0.1916$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	372.23	0.0002	P	9.9
2	☐	1.000	0.883	2029.82	0.0010	P	6.7
3	☐	250.000	247.221	461979.06	0.2215	P	1.9
4	☐	625.000	606.219	1165347.47	0.5429	P	1.7
5	☐	1250.000	1326.406	2514728.18	1.1876	A	1.6
6	☐	2500.000	2593.146	5040047.45	2.3217	A	2.2
7	☐	5000.000	4936.812	9934868.97	4.4198	A	2.4
8	☐			6777.92	0.0033	P	10.9

$$y = 8.9524\text{E-}004 * x + 1.7747\text{E-}004$$

$$R = 0.9996$$

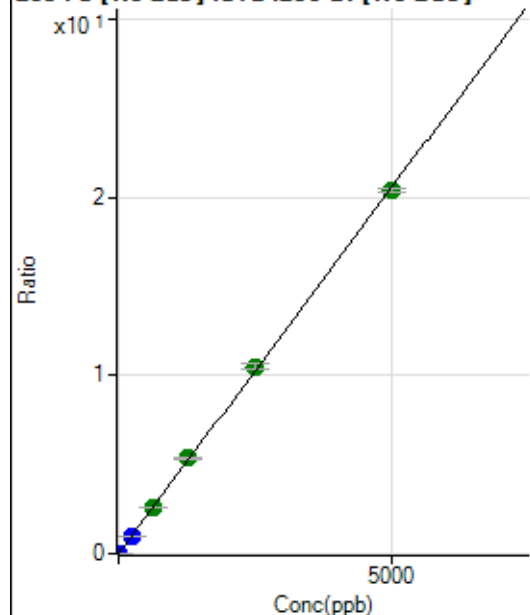
$$DL = 0.05898$$

$$BEC = 0.1982$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1559.33	0.0007	P	2.4
2	☐	1.000	0.922	9490.45	0.0045	P	1.3
3	☐	250.000	246.634	2112361.45	1.0128	P	0.6
4	☐	625.000	621.701	5478088.06	2.5519	A	1.3
5	☐	1250.000	1302.989	11322731.07	5.3476	A	2.0
6	☐	2500.000	2560.166	22808575.40	10.5065	A	2.2
7	☐	5000.000	4957.250	45723940.37	20.3431	A	1.1
8	☐			31210.55	0.0150	P	8.9

$$y = 0.0041 * x + 7.4300\text{E-}004$$

$$R = 0.9998$$

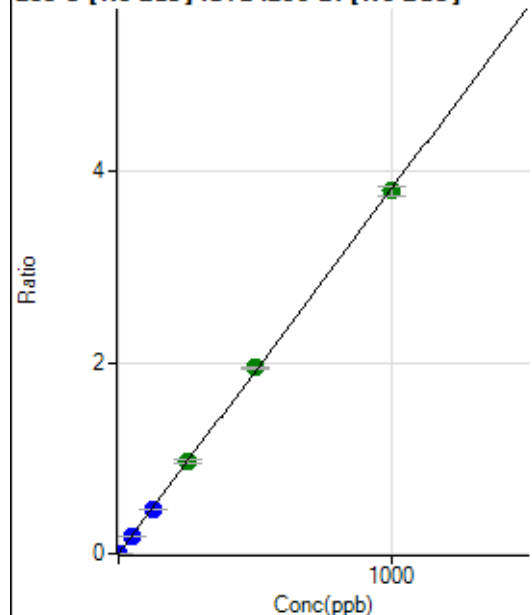
$$DL = 0.01299$$

$$BEC = 0.1811$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13.89	0.0000	P	34.9
2	☐	1.000	0.949	7610.84	0.0036	P	0.7
3	☐	50.000	49.201	391808.67	0.1879	P	1.0
4	☐	125.000	120.946	991325.44	0.4618	P	1.4
5	☐	250.000	255.506	2065159.75	0.9756	A	4.1
6	☐	500.000	508.865	4219045.71	1.9430	A	0.9
7	☐	1000.000	994.738	8535511.83	3.7982	A	2.9
8	☐			2450.44	0.0012	P	17.1

$$y = 0.0038 * x + 6.6231E-006$$

$$R = 0.9999$$

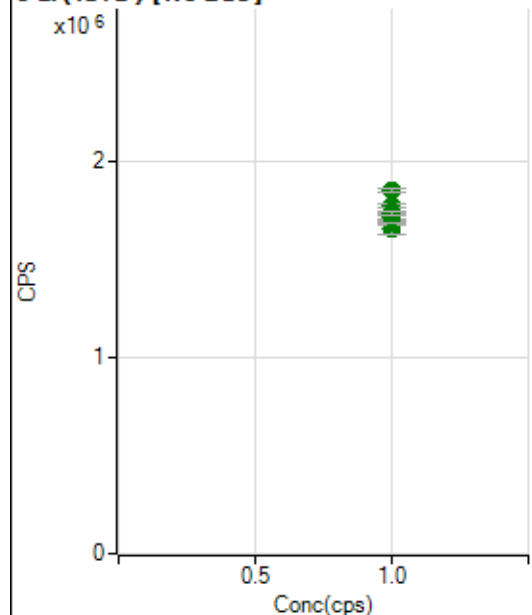
$$DL = 0.001814$$

$$BEC = 0.001735$$

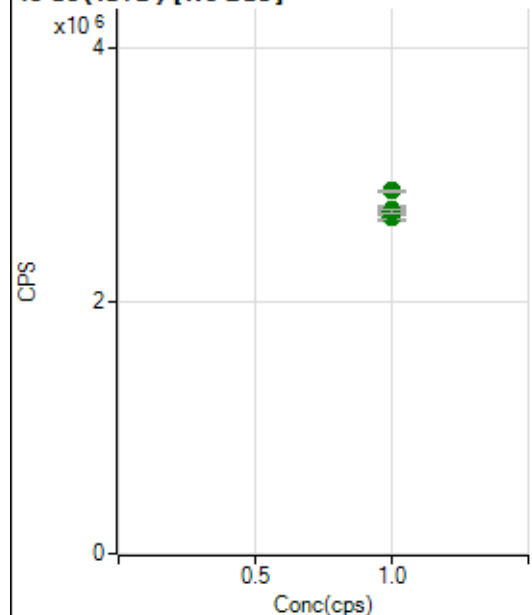
Weight: <None>

Min Conc: 0

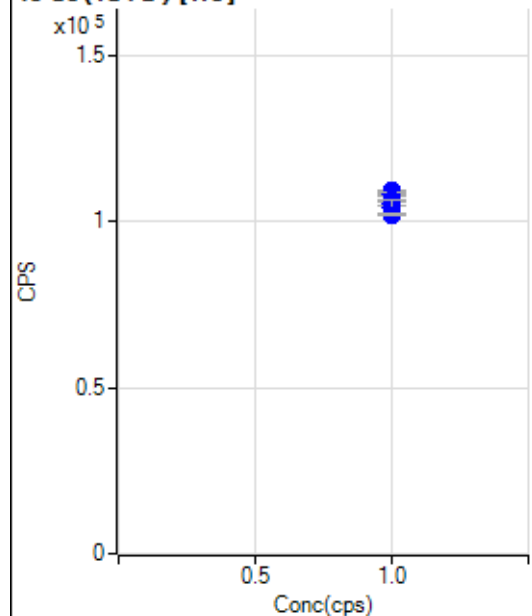
6 Li (ISTD) [No Gas]



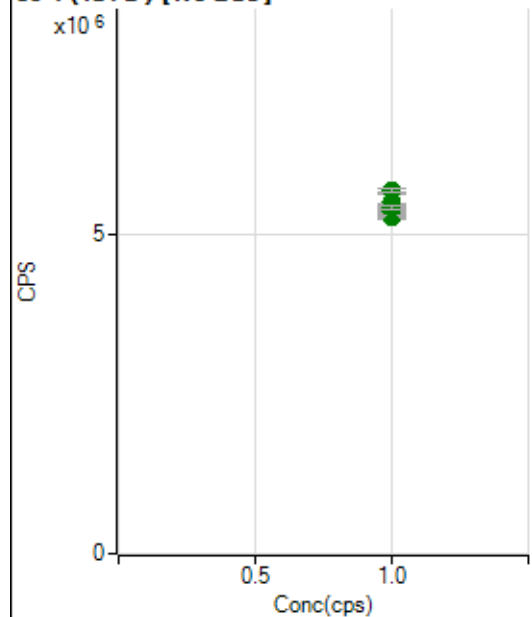
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1699102.03		A	0.4
2	☐	1.000		1653768.67		A	3.1
3	☐	1.000		1680440.06		A	0.7
4	☐	1.000		1713543.57		A	3.6
5	☐	1.000		1770696.39		A	1.0
6	☐	1.000		1743718.97		A	1.5
7	☐	1.000		1846057.23		A	1.1
8	☐	1.000		1732311.69		A	1.6

45 Sc (ISTD) [No Gas]

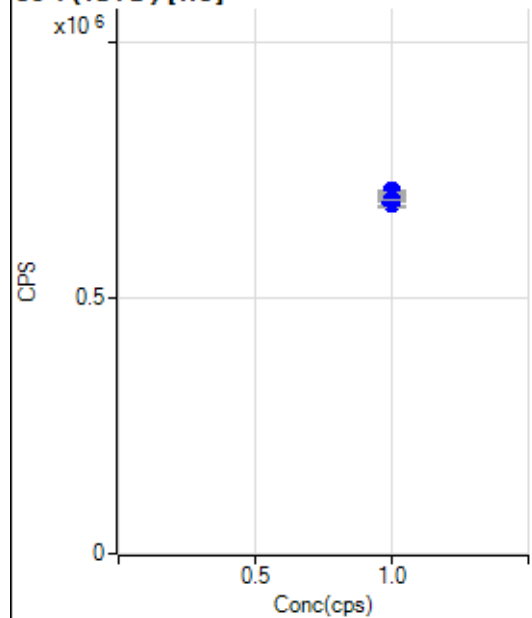
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2679511.66		A	3.1
2	☐	1.000		2720867.25		A	1.7
3	☐	1.000		2663778.73		A	1.2
4	☐	1.000		2726214.54		A	2.2
5	☐	1.000		2728815.67		A	0.4
6	☐	1.000		2733947.60		A	1.5
7	☐	1.000		2874594.09		A	0.7
8	☐	1.000		2711903.81		A	1.0

45 Sc (ISTD) [He]

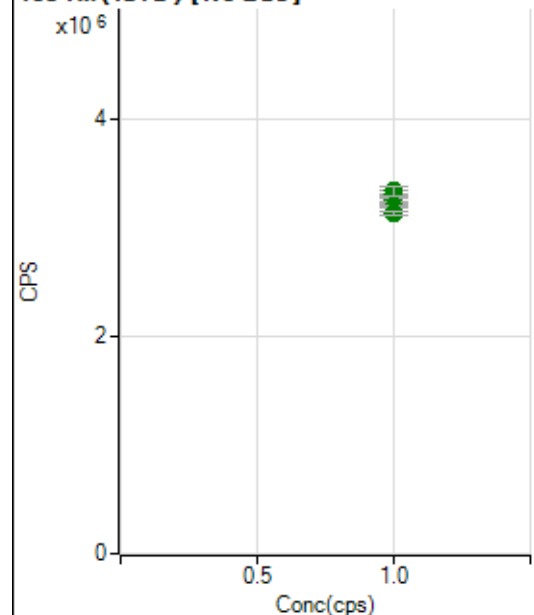
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		109332.22		P	0.9
2	☐	1.000		109216.74		P	0.2
3	☐	1.000		108718.62		P	0.9
4	☐	1.000		108368.19		P	1.5
5	☐	1.000		105309.03		P	1.1
6	☐	1.000		106717.98		P	0.3
7	☐	1.000		104382.13		P	4.3
8	☐	1.000		102015.46		P	0.6

89 Y (ISTD) [No Gas]

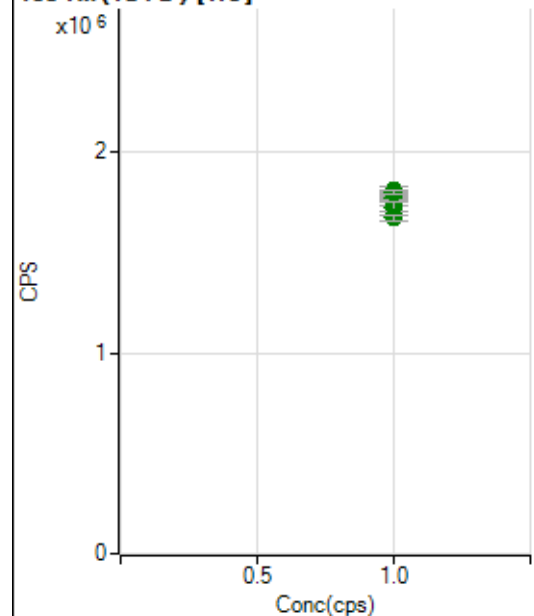
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5264190.93		A	1.8
2	☐	1.000		5393409.64		A	0.8
3	☐	1.000		5281970.17		A	1.0
4	☐	1.000		5412115.44		A	2.4
5	☐	1.000		5336777.07		A	1.7
6	☐	1.000		5502776.93		A	3.7
7	☐	1.000		5667625.40		A	0.9
8	☐	1.000		5415585.69		A	1.1

89 Y (ISTD) [He]

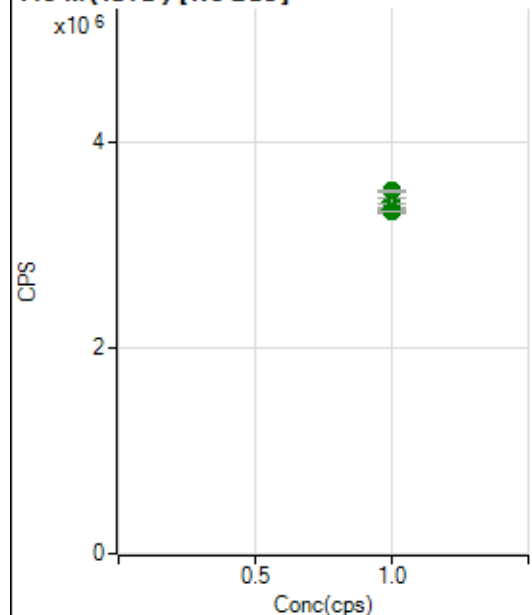
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		710475.71		P	0.4
2	☐	1.000		702499.62		P	1.1
3	☐	1.000		703616.55		P	0.1
4	☐	1.000		704205.77		P	0.9
5	☐	1.000		685353.49		P	0.8
6	☐	1.000		707024.72		P	0.7
7	☐	1.000		689365.77		P	3.3
8	☐	1.000		692829.50		P	0.5

103 Rh (ISTD) [No Gas]

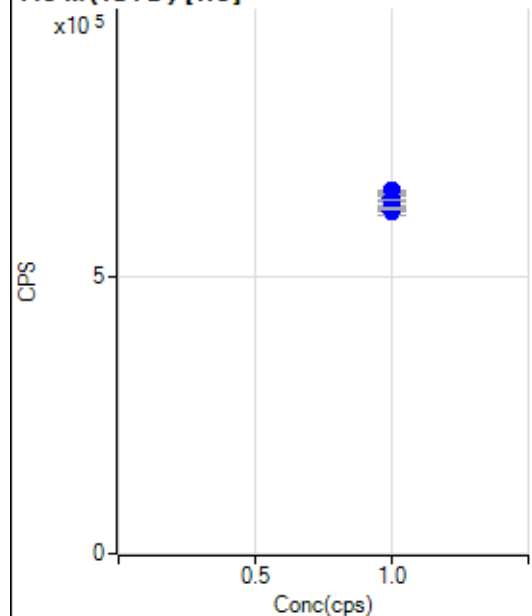
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3293131.04		A	1.6
2	☐	1.000		3207677.80		A	1.3
3	☐	1.000		3252389.81		A	1.2
4	☐	1.000		3268039.31		A	1.6
5	☐	1.000		3192741.43		A	0.6
6	☐	1.000		3307650.79		A	1.9
7	☐	1.000		3340621.45		A	2.9
8	☐	1.000		3135540.65		A	0.9

103 Rh (ISTD) [He]

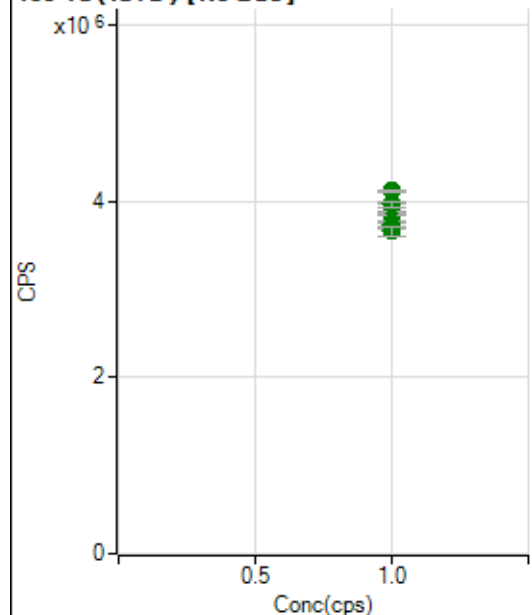
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1799073.71		A	1.6
2	☐	1.000		1773493.10		A	0.1
3	☐	1.000		1806381.78		A	2.2
4	☐	1.000		1773788.36		A	2.7
5	☐	1.000		1747792.98		A	1.9
6	☐	1.000		1798422.59		A	0.8
7	☐	1.000		1727906.43		A	2.3
8	☐	1.000		1672033.59		A	1.5

115 In (ISTD) [No Gas]

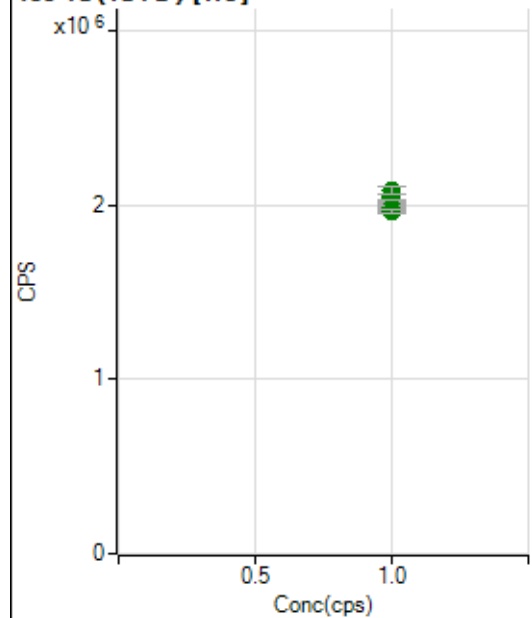
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3356568.96		A	2.4
2	☐	1.000		3317849.40		A	1.1
3	☐	1.000		3326428.38		A	1.2
4	☐	1.000		3411229.92		A	2.6
5	☐	1.000		3333692.44		A	1.8
6	☐	1.000		3422871.35		A	1.7
7	☐	1.000		3521443.59		A	0.7
8	☐	1.000		3320081.89		A	0.4

115 In (ISTD) [He]

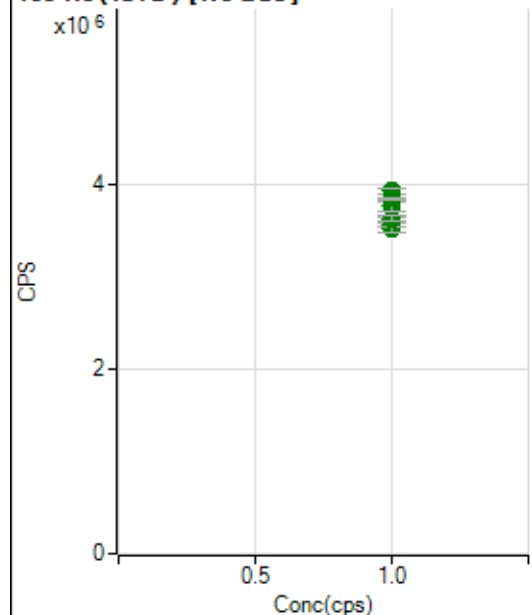
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		654887.48		P	0.4
2	☐	1.000		643080.91		P	1.2
3	☐	1.000		647448.43		P	0.8
4	☐	1.000		636459.61		P	0.9
5	☐	1.000		622514.19		P	1.3
6	☐	1.000		639052.83		P	0.4
7	☐	1.000		617351.89		P	2.5
8	☐	1.000		623006.65		P	0.4

159 Tb (ISTD) [No Gas]

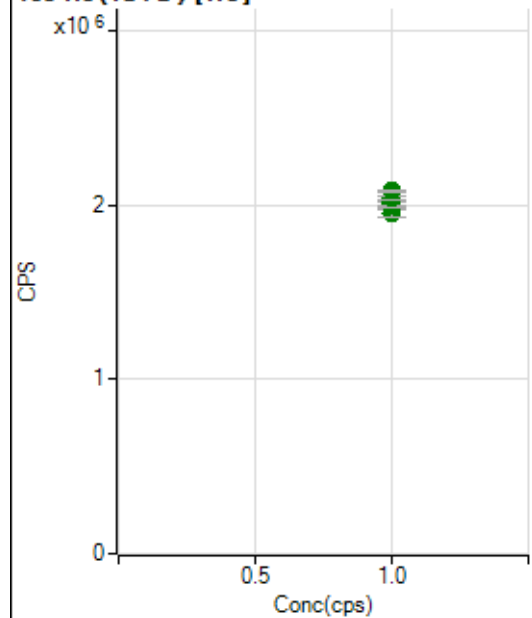
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3730718.76		A	1.2
2	☐	1.000		3738763.52		A	2.3
3	☐	1.000		3657524.08		A	2.9
4	☐	1.000		3847939.11		A	0.7
5	☐	1.000		3855004.73		A	0.8
6	☐	1.000		3927770.32		A	1.9
7	☐	1.000		4119642.02		A	0.5
8	☐	1.000		3966954.59		A	1.3

159 Tb (ISTD) [He]

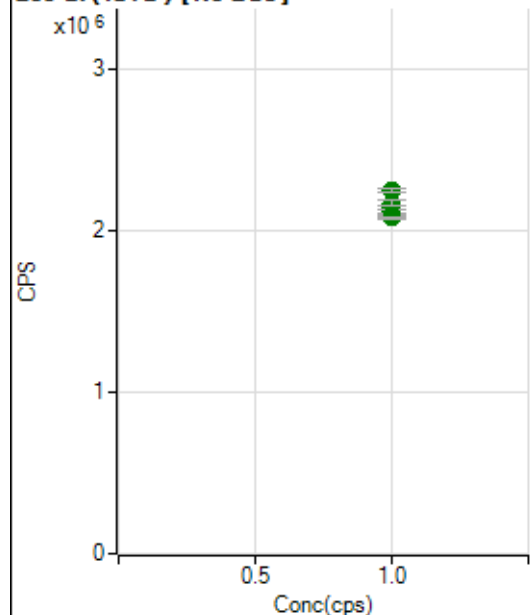
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1987685.46		A	1.6
2	☐	1.000		1981445.39		A	0.6
3	☐	1.000		2026585.30		A	3.5
4	☐	1.000		1980534.24		A	1.9
5	☐	1.000		1966193.45		A	1.0
6	☐	1.000		2042959.24		A	2.1
7	☐	1.000		2044680.53		A	1.4
8	☐	1.000		2079370.84		A	2.0

165 Ho (ISTD) [No Gas]

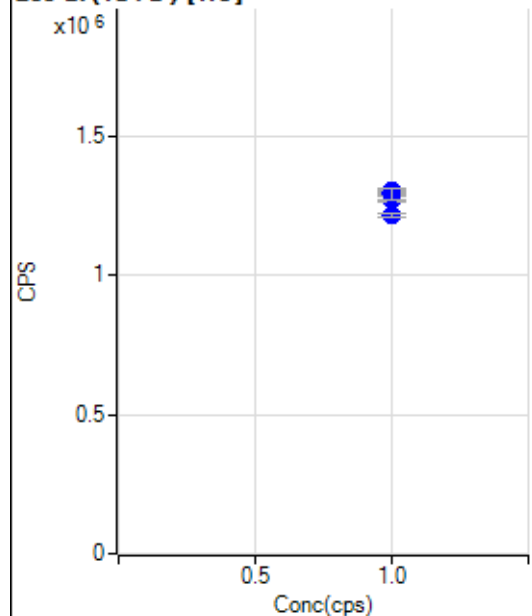
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3558252.46		A	1.3
2	☐	1.000		3607318.57		A	1.9
3	☐	1.000		3510934.71		A	1.7
4	☐	1.000		3623404.68		A	1.3
5	☐	1.000		3628185.97		A	2.0
6	☐	1.000		3758580.99		A	2.5
7	☐	1.000		3925260.20		A	1.5
8	☐	1.000		3842604.90		A	0.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2003370.23		A	1.3
2	☐	1.000		1954054.76		A	2.2
3	☐	1.000		1993928.81		A	2.1
4	☐	1.000		2012942.23		A	1.2
5	☐	1.000		1992727.42		A	0.2
6	☐	1.000		2078255.25		A	0.8
7	☐	1.000		2042075.16		A	1.1
8	☐	1.000		2080612.88		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2098550.25		A	0.8
2	☐	1.000		2096126.51		A	1.2
3	☐	1.000		2085636.58		A	0.7
4	☐	1.000		2146900.06		A	1.4
5	☐	1.000		2117840.00		A	1.8
6	☐	1.000		2171380.18		A	1.7
7	☐	1.000		2247644.03		A	0.9
8	☐	1.000		2083245.04		A	0.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1301282.48		P	1.5
2	☐	1.000		1292553.04		P	0.7
3	☐	1.000		1301340.84		P	1.2
4	☐	1.000		1289778.63		P	1.5
5	☐	1.000		1266027.41		P	1.0
6	☐	1.000		1295696.58		P	1.2
7	☐	1.000		1289650.62		P	2.8
8	☐	1.000		1213233.76		P	0.9

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8012022MS1.b
Acq. Date-Time 2022-01-20 15:54:28
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		4523	45226.94			0.491	5.000
24		40899	408991.79			1.047	5.000
25		5526	55264.22			0.502	5.000
26		6173	61727.62			0.938	5.000
59		9334	93339.38			0.974	5.000
113		3693	36928.01			0.766	5.000
115		13074	130736.64			1.994	5.000
206		4714	47138.72			1.164	5.000
207		3955	39545.59			1.228	5.000
208		9726	97259.81			1.559	5.000
220		1	13.00			27.868	

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

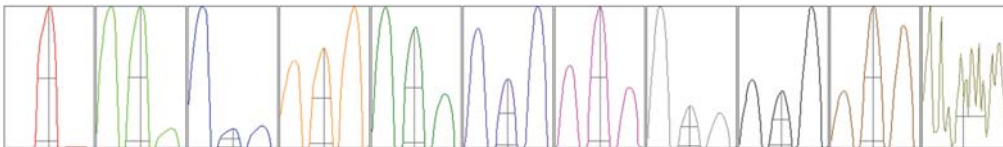
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	4508	4501	4520	4558	4527
24	40549	40350	41092	41146	41359
25	5514	5491	5518	5547	5561
26	6130	6140	6123	6236	6236
59	9276	9216	9343	9447	9388
113	3662	3668	3721	3692	3722
115	13403	13276	13031	12802	12856
206	4641	4778	4757	4687	4707
207	3895	3978	3998	3909	3993
208	9539	9846	9803	9585	9856

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	7767.20	9.00	8.90 - 9.10	
24	69886.68	24.00	23.90 - 24.10	
25	9337.13	25.05	24.90 - 25.10	
26	10716.40	26.00	25.90 - 26.10	
59	16781.76	58.95	58.90 - 59.10	
113	7204.23	113.00	112.90 - 113.10	
115	25278.92	115.05	114.90 - 115.10	
206	8918.77	205.95	205.90 - 206.10	
207	7419.11	206.95	206.90 - 207.10	
208	18394.61	207.95	207.90 - 208.10	
220	1.20	219.90	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.741	0.900	
24	0.62	0.785	0.900	
25	0.64	0.786	0.900	
26	0.62	0.785	0.900	
59	0.59	0.737	0.900	
113	0.54	0.699	0.900	
115	0.54	0.731	0.900	
206	0.56	0.745	0.900	
207	0.56	0.778	0.900	
208	0.56	0.779	0.900	
220	0.97			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.73 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	10.8 V	Deflect	15.4 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	160 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.8 mm
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EM

Discriminator	4.1 mV	Analog HV	2291 V	Pulse HV	1613 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		2560	25596.30			0.886	
89		9728	97279.48			0.438	
205		10162	101619.22			1.341	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	2540	2557	2597	2562	2543
89	9789	9683	9753	9707	9707
205	10366	10051	10192	10178	10023

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	10.8 V	Deflect	4.4 V
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US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 V	Cell Exit	-70 V		

Cell Parameters

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

QP Parameters

Mass Gain	123	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.8 mm
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EM

Discriminator	4.1 mV	Analog HV	2291 V	Pulse HV	1613 V
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