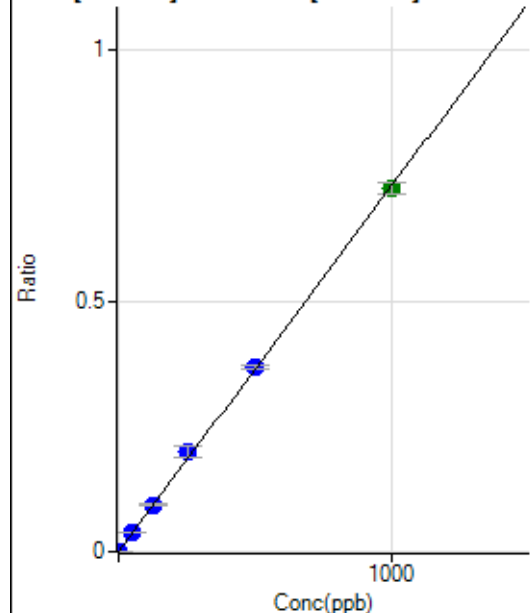


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8101223-MS.b\
Analysis File: P8101223-MS.batch.bin
DA Date-Time: 2023-10-13 10:27:01
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-10-12 09:08:39
2	006CALS.d	S02	2023-10-12 09:15:33
3	007CALS.d	S03	2023-10-12 09:18:58
4	008CALS.d	S04	2023-10-12 09:22:14
5	009CALS.d	S05	2023-10-12 09:25:19
6	010CALS.d	S06	2023-10-12 09:28:22
7	011CALS.d	S07	2023-10-12 09:31:24
8	012CALS.d	S08	2023-10-12 09:34:28

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	36.66	0.0000	P	23.0
2	☐	1.000	0.939	1859.47	0.0007	P	7.3
3	☐	50.000	50.870	94583.80	0.0371	P	2.2
4	☐	125.000	128.594	234437.16	0.0939	P	5.7
5	☐	250.000	271.826	448569.54	0.1984	P	10.9
6	☐	500.000	503.936	847748.61	0.3677	P	2.6
7	☐	1000.000	992.083	1619789.17	0.7240	A	3.3
8	☐			308.31	0.0002	P	51.2

$$y = 7.2972\text{E-}004 * x + 1.4377\text{E-}005$$

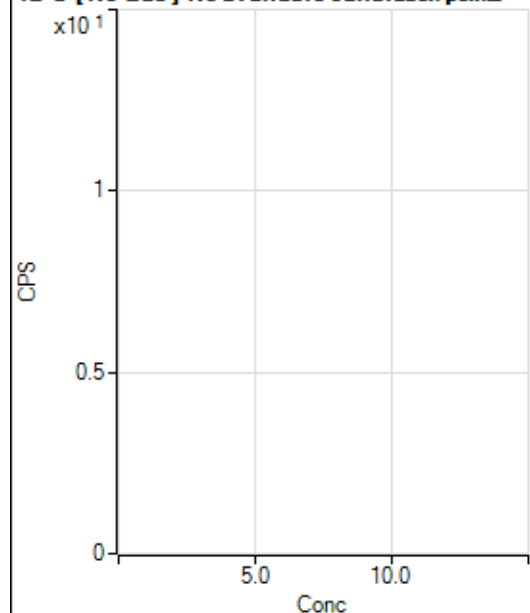
$$R = 0.9997$$

$$DL = 0.01357$$

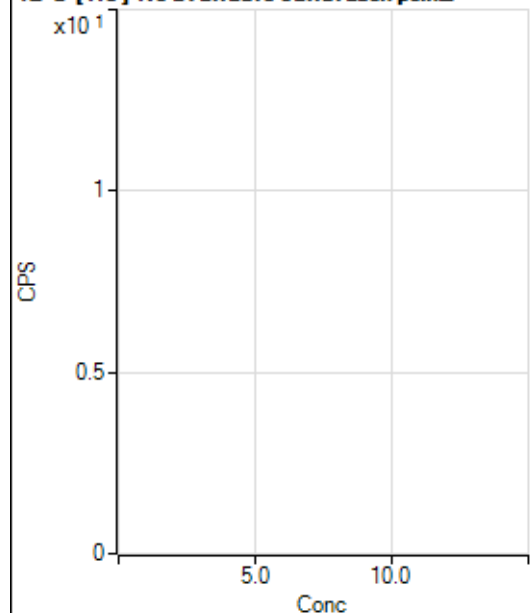
$$BEC = 0.0197$$

Weight: <None>

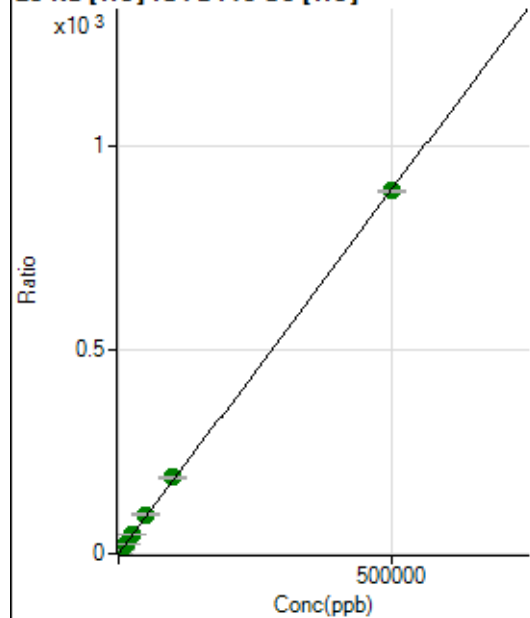
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			2405572.90		A	1.6
2	☐			2294640.61		A	0.5
3	☐			2386262.38		A	1.5
4	☐			2397861.37		A	1.9
5	☐			2445598.09		A	1.9
6	☐			2633486.10		A	4.7
7	☐			2734198.69		A	4.0
8	☐			2333740.73		A	3.1

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			29918.26		P	1.5
2	☐			28467.57		P	1.6
3	☐			29957.24		P	0.9
4	☐			31298.87		P	0.8
5	☐			32213.15		P	1.7
6	☐			36548.72		P	1.8
7	☐			36469.64		P	1.5
8	☐			35999.60		P	0.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	41294.91	0.2141	P	1.1
2	☐	500.000	470.585	204299.50	1.0520	P	0.2
3	☐	5000.000	5297.306	1845765.95	9.6460	A	1.1
4	☐	12500.000	13321.580	4464572.54	23.9333	A	1.4
5	☐	25000.000	26684.464	8529385.57	47.7261	A	1.9
6	☐	50000.000	53321.989	16767503.64	95.1544	A	5.9
7	☐	100000.00	105094.57	33695468.39	187.3360	A	2.1
8	☐	500000.00	498541.18	168039140.8	887.8712	A	0.8

$$y = 0.0018 * x + 0.2141$$

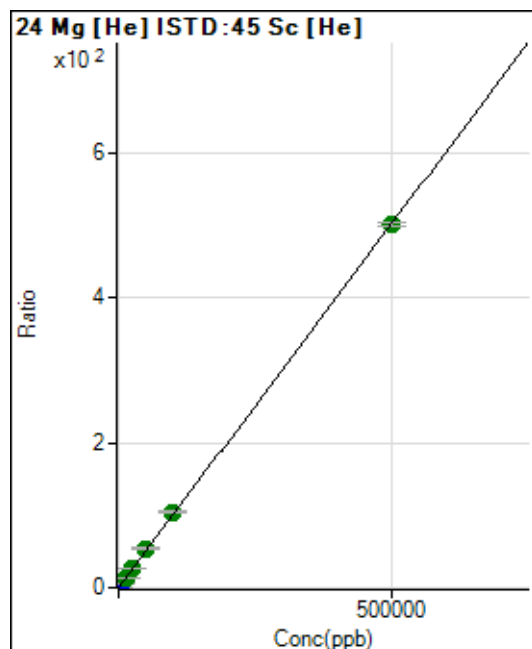
$$R = 0.9999$$

$$DL = 4.065$$

$$BEC = 120.3$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	133.34	0.0007	P	4.6
2	☐	500.000	464.844	90687.72	0.4670	P	0.5
3	☐	5000.000	5266.634	1011013.93	5.2837	P	1.1
4	☐	12500.000	13679.035	2559738.97	13.7223	A	1.9
5	☐	25000.000	26881.572	4819571.91	26.9660	A	1.2
6	☐	50000.000	53267.731	9417042.50	53.4344	A	5.5
7	☐	100000.00	104182.66	18796042.78	104.5079	A	3.2
8	☐	500000.00	498710.50	94680127.48	500.2648	A	1.2

$$y = 0.0010 * x + 6.9143E-004$$

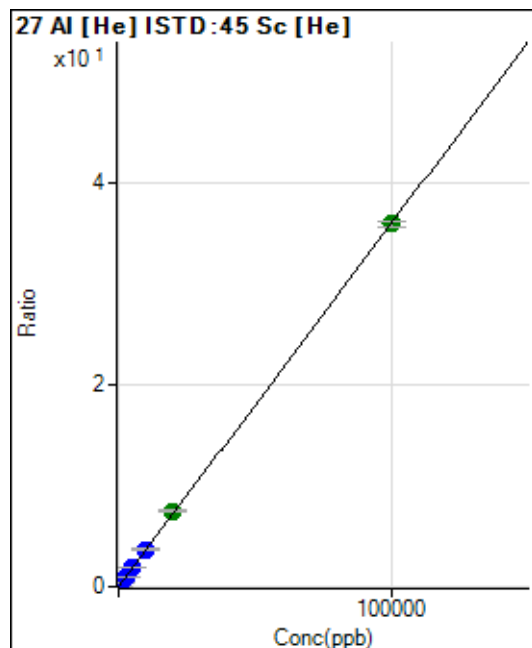
$$R = 0.9999$$

$$DL = 0.09469$$

$$BEC = 0.6893$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	120.00	0.0006	P	8.4
2	☐	20.000	22.284	1677.89	0.0086	P	5.8
3	☐	1000.000	985.069	67930.06	0.3550	P	1.0
4	☐	2500.000	2546.931	171047.70	0.9169	P	0.7
5	☐	5000.000	5084.642	327046.72	1.8298	P	0.8
6	☐	10000.000	10109.751	640979.61	3.6377	P	6.0
7	☐	20000.000	20806.388	1346329.56	7.4858	A	3.0
8	☐	100000.00	99822.491	6796734.21	35.9123	A	1.6

$$y = 3.5975E-004 * x + 6.2224E-004$$

$$R = 1.0000$$

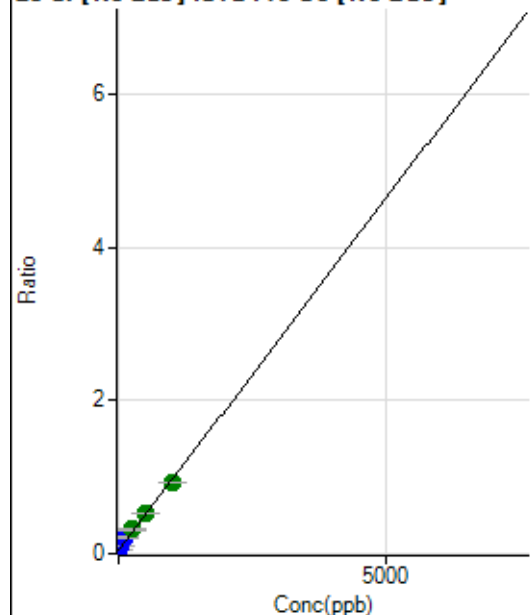
$$DL = 0.4344$$

$$BEC = 1.73$$

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	208560.28	0.0402	P	0.5
2	☐	10.000	16.375	286987.26	0.0553	P	1.0
3	☐	50.000	73.183	556494.25	0.1077	P	3.1
4	☐	125.000	183.893	1073593.34	0.2100	P	7.1
5	☐	250.000	299.544	1493541.54	0.3168	A	11.9
6	☐	500.000	531.539	2620775.12	0.5310	A	2.3
7	☐	1000.000	963.260	4537055.04	0.9296	A	1.0
8	☐			374590.74	0.0800	P	4.8

$$y = 9.2335\text{E-}004 * x + 0.0402$$

$$R = 0.9968$$

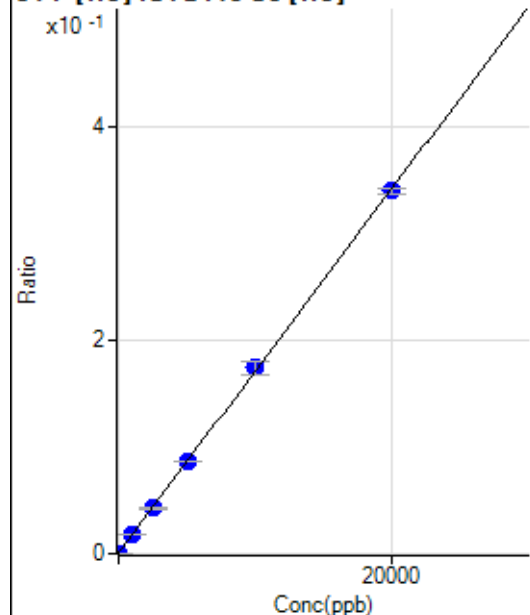
$$DL = 0.5874$$

$$BEC = 43.5$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-8.800	104.45	0.0005	P	7.1
2	☐	0.000	8.800	163.33	0.0008	P	12.9
3	☐	1000.000	1011.922	3428.22	0.0179	P	3.8
4	☐	2500.000	2446.961	7895.54	0.0423	P	3.4
5	☐	5000.000	5003.480	15341.56	0.0858	P	0.8
6	☐	10000.000	10205.369	30708.10	0.1743	P	7.4
7	☐	20000.000	19902.479	61043.24	0.3394	P	1.7
8	☐			107.78	0.0006	P	3.5

$$y = 1.7016\text{E-}005 * x + 6.9141\text{E-}004$$

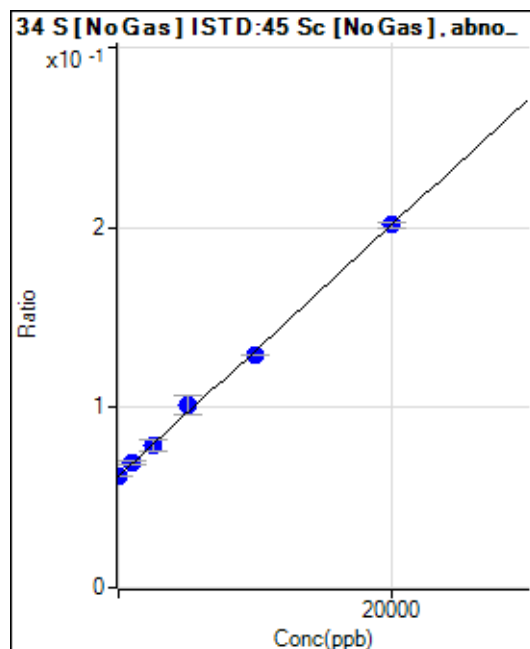
$$R = 0.9999$$

$$DL = 12.91$$

$$BEC = 40.63$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-16.197	320971.71	0.0618	P	0.4
2	☐	0.000	16.197	322059.59	0.0620	P	1.0
3	☐	1000.000	1036.696	357276.56	0.0692	P	3.1
4	☐	2500.000	2516.342	406310.93	0.0795	P	8.1
5	☐	5000.000	5684.231	479468.47	0.1016	P	11.0
6	☐	10000.000	9675.475	639206.02	0.1295	P	0.2
7	☐	20000.000	19987.327	983334.82	0.2015	P	1.3
8	☐			261113.87	0.0557	P	5.3

$$y = 6.9819\text{E-}006 * x + 0.0619$$

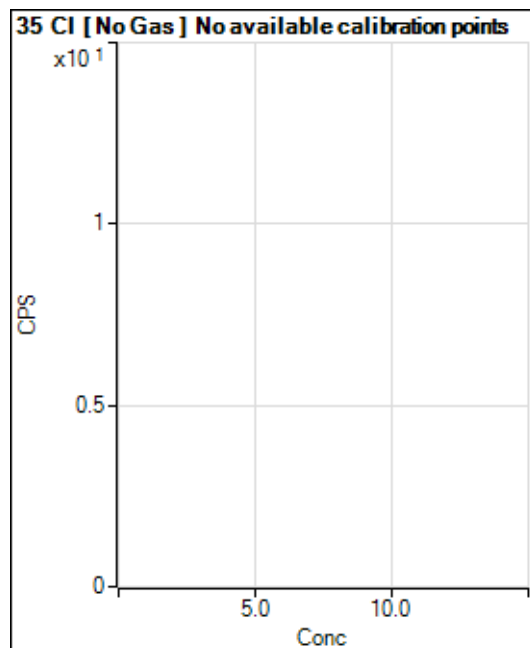
R = 0.9992

DL = 189.6

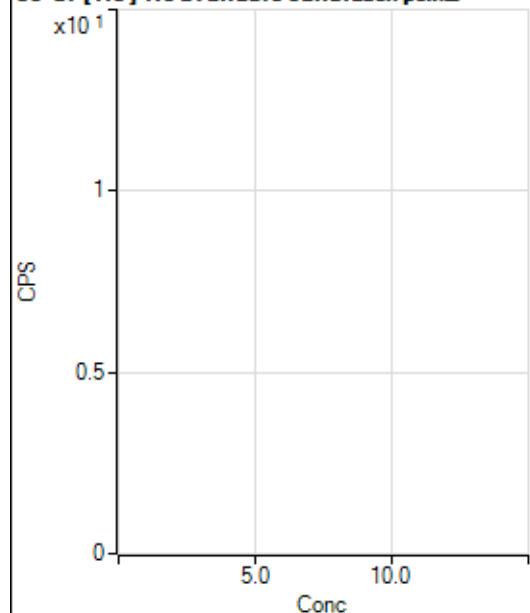
BEC = 8870

Weight: <None>

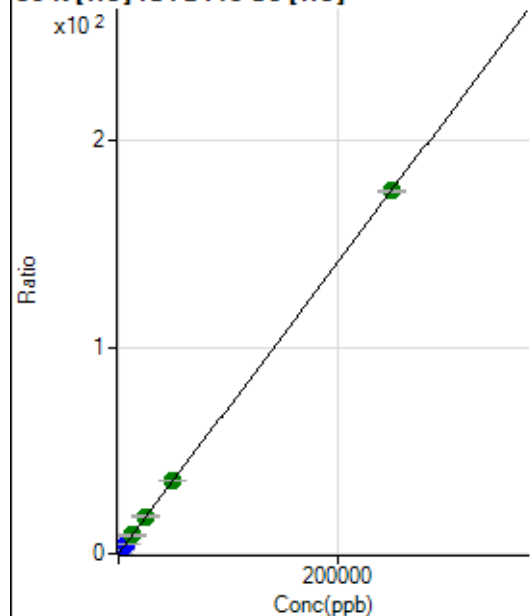
Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			71995.44		P	0.8
2	☐			66259.56		P	0.5
3	☐			70162.14		P	1.2
4	☐			72954.79		P	0.5
5	☐			74728.13		P	0.6
6	☐			76652.58		P	1.1
7	☐			85849.08		P	1.1
8	☐			70127.56		P	0.3

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			588.91		P	9.0
2	☐			570.02		P	10.8
3	☐			608.91		P	6.0
4	☐			572.24		P	6.1
5	☐			610.02		P	9.6
6	☐			591.13		P	2.1
7	☐			718.91		P	13.5
8	☐			606.69		P	7.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	9758.93	0.0506	P	1.3
2	☐	500.000	438.157	69638.16	0.3586	P	1.6
3	☐	2500.000	2436.891	337426.49	1.7635	P	1.9
4	☐	6250.000	6215.609	824461.92	4.4197	P	1.4
5	☐	12500.000	12616.293	1593922.39	8.9189	A	2.8
6	☐	25000.000	25590.806	3178421.97	18.0389	A	6.2
7	☐	50000.000	50411.422	6382847.13	35.4859	A	1.9
8	☐	250000.00	249854.43	33249125.34	175.6786	A	0.7

$$y = 7.0292\text{E-}004 * x + 0.0506$$

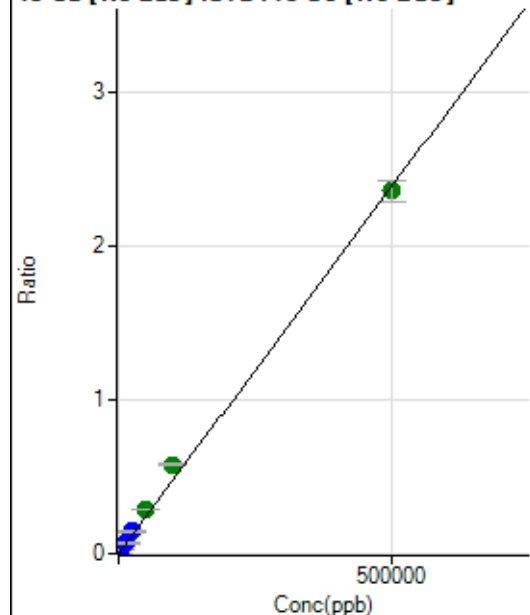
$$R = 1.0000$$

$$DL = 2.856$$

$$BEC = 71.99$$

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	227.78	0.0000	P	7.9
2	☐	500.000	438.257	11082.12	0.0021	P	0.5
3	☐	5000.000	5769.536	142390.83	0.0276	P	3.6
4	☐	12500.000	14500.825	353759.96	0.0692	P	8.4
5	☐	25000.000	30755.475	692347.54	0.1468	P	11.4
6	☐	50000.000	59781.889	1408113.05	0.2853	A	1.4
7	☐	100000.00	120881.16	2814765.30	0.5768	A	2.1
8	☐	500000.00	494500.15	11049186.78	2.3593	A	5.6

$$y = 4.7711\text{E-}006 * x + 4.3881\text{E-}005$$

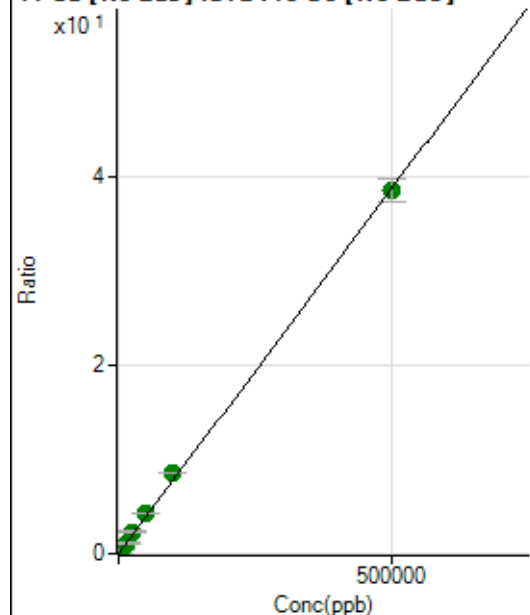
$$R = 0.9989$$

$$DL = 2.189$$

$$BEC = 9.197$$

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	55215.90	0.0106	P	1.3
2	☐	500.000	435.178	229776.98	0.0443	P	0.7
3	☐	5000.000	5606.785	2293728.49	0.4439	A	1.8
4	☐	12500.000	14000.844	5586926.86	1.0926	A	7.1
5	☐	25000.000	29643.004	10846700.67	2.3015	A	12.5
6	☐	50000.000	54651.092	20900306.36	4.2342	A	1.4
7	☐	100000.00	110091.40	41576606.05	8.5187	A	0.9
8	☐	500000.00	497240.93	179958675.1	38.4383	A	6.4

$$y = 7.7282\text{E-}005 * x + 0.0106$$

$$R = 0.9998$$

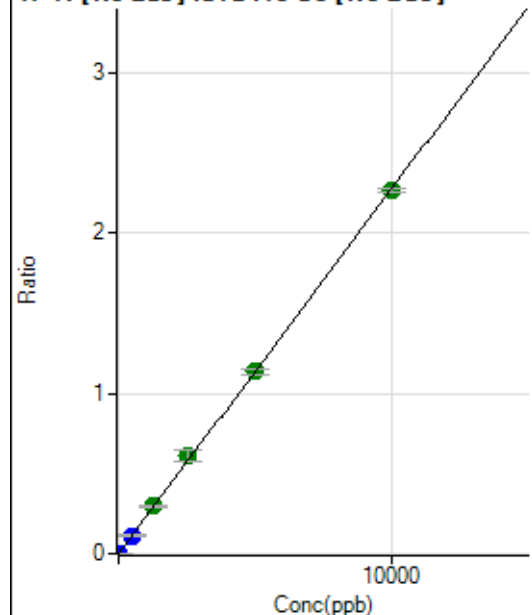
$$DL = 5.377$$

$$BEC = 137.6$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	96.66	0.0000	P	5.3
2	☐	5.000	4.643	5576.70	0.0011	P	1.4
3	☐	500.000	497.375	584398.04	0.1131	P	2.2
4	☐	1250.000	1295.816	1507033.10	0.2947	A	6.8
5	☐	2500.000	2699.723	2895782.63	0.6140	A	11.5
6	☐	5000.000	4990.006	5601011.66	1.1348	A	3.0
7	☐	10000.000	9949.471	11042665.39	2.2626	A	1.1
8	☐			2105.84	0.0005	P	21.8

$$y = 2.2741E-004 * x + 1.8613E-005$$

$$R = 0.9998$$

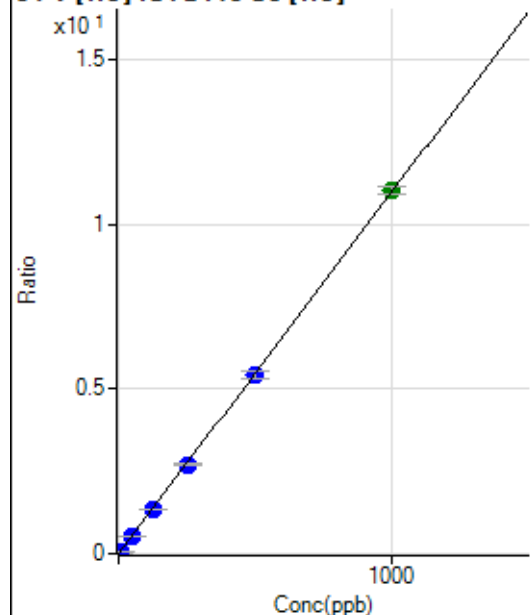
$$DL = 0.01301$$

$$BEC = 0.08185$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16.67	0.0001	P	20.5
2	☐	5.000	4.643	9539.92	0.0491	P	2.0
3	☐	50.000	48.321	101609.64	0.5310	P	0.6
4	☐	125.000	123.236	252607.79	1.3541	P	0.8
5	☐	250.000	246.118	483318.36	2.7043	P	1.4
6	☐	500.000	494.292	957276.79	5.4311	P	5.1
7	☐	1000.000	1004.132	1984418.39	11.0329	A	2.2
8	☐			597.80	0.0032	P	23.8

$$y = 0.0110 * x + 8.6471E-005$$

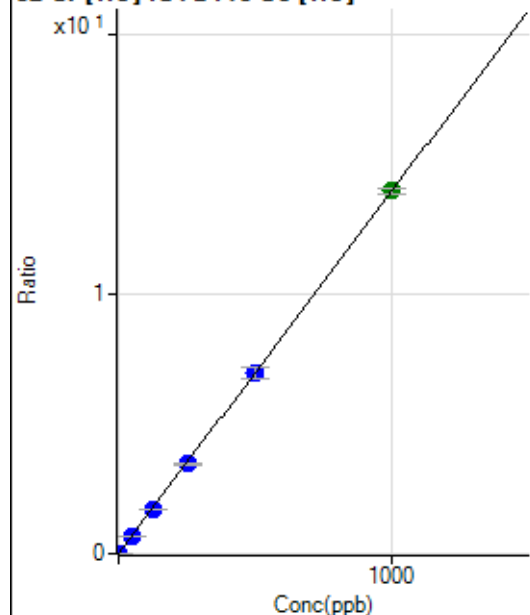
$$R = 1.0000$$

$$DL = 0.004835$$

$$BEC = 0.00787$$

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	1641.22	0.0085	P	3.5
2	☐	2.000	1.915	6836.14	0.0352	P	2.5
3	☐	50.000	48.482	130917.21	0.6842	P	1.1
4	☐	125.000	123.237	322007.47	1.7260	P	1.0
5	☐	250.000	246.750	616163.94	3.4474	P	0.6
6	☐	500.000	498.930	1226809.50	6.9620	P	5.9
7	☐	1000.000	1001.644	2512693.59	13.9683	A	1.9
8	☐			7748.85	0.0409	P	0.8

$$y = 0.0139 * x + 0.0085$$

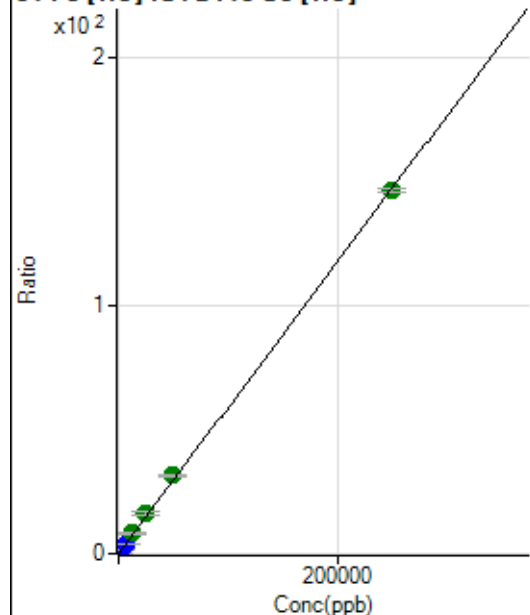
$$R = 1.0000$$

$$DL = 0.06477$$

$$BEC = 0.6106$$

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	450.01	0.0023	P	0.3
2	☐	50.000	48.831	6024.66	0.0310	P	1.4
3	☐	2500.000	2603.992	293200.69	1.5323	P	1.1
4	☐	6250.000	6674.286	731951.37	3.9238	P	1.2
5	☐	12500.000	13966.303	1466926.33	8.2082	A	2.2
6	☐	25000.000	27725.539	2871405.41	16.2925	A	5.4
7	☐	50000.000	53440.349	5647915.68	31.4012	A	2.5
8	☐	250000.00	248954.41	27684565.70	146.2754	A	1.0

$$y = 5.8755E-004 * x + 0.0023$$

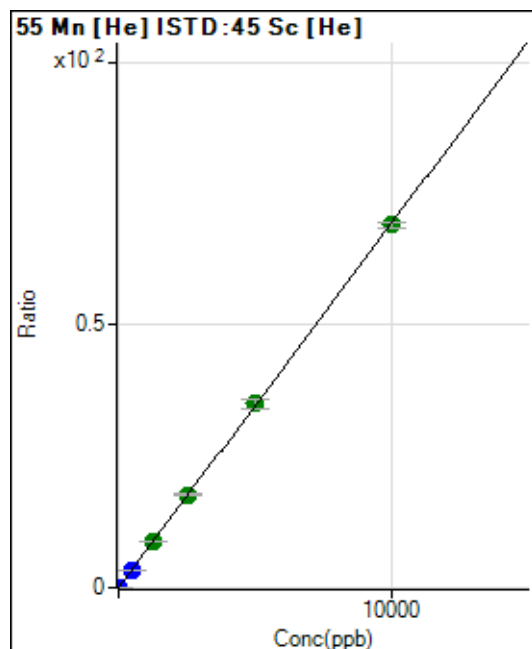
$$R = 0.9999$$

$$DL = 0.04039$$

$$BEC = 3.971$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	97.78	0.0005	P	4.2
2	☐	1.000	0.993	1435.65	0.0074	P	5.7
3	☐	500.000	483.323	641050.88	3.3500	P	0.3
4	☐	1250.000	1253.159	1620117.91	8.6850	A	1.4
5	☐	2500.000	2541.481	3147913.22	17.6132	A	2.0
6	☐	5000.000	5065.804	6187820.95	35.1071	A	5.2
7	☐	10000.000	9957.167	12412079.12	69.0048	A	1.9
8	☐			6730.64	0.0356	P	6.1

$$y = 0.0069 * x + 5.0702E-004$$

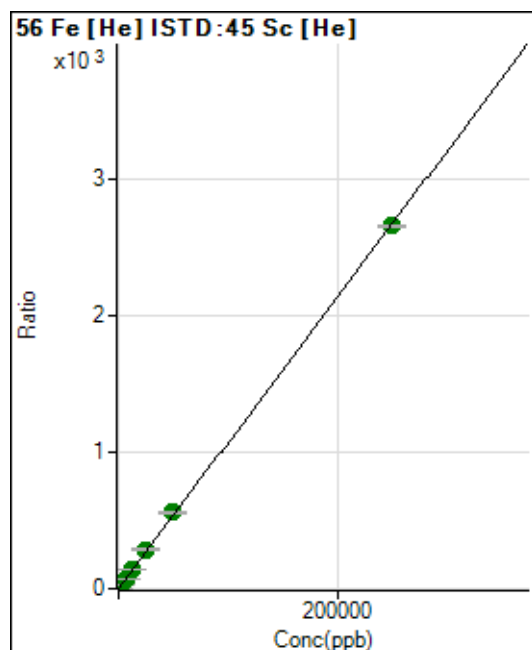
$$R = 1.0000$$

$$DL = 0.009198$$

$$BEC = 0.07316$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4251.80	0.0220	P	1.4
2	☐	50.000	47.682	102794.28	0.5293	P	0.8
3	☐	2500.000	2629.677	5357972.59	27.9989	A	0.5
4	☐	6250.000	6694.787	13291326.89	71.2472	A	0.2
5	☐	12500.000	13386.932	25458439.07	142.4442	A	1.0
6	☐	25000.000	27004.696	50651667.58	287.3222	A	4.5
7	☐	50000.000	52502.564	100479768.5	558.5914	A	1.6
8	☐	250000.00	249242.25	501859192.5	2,651.684	A	0.9

$$y = 0.0106 * x + 0.0220$$

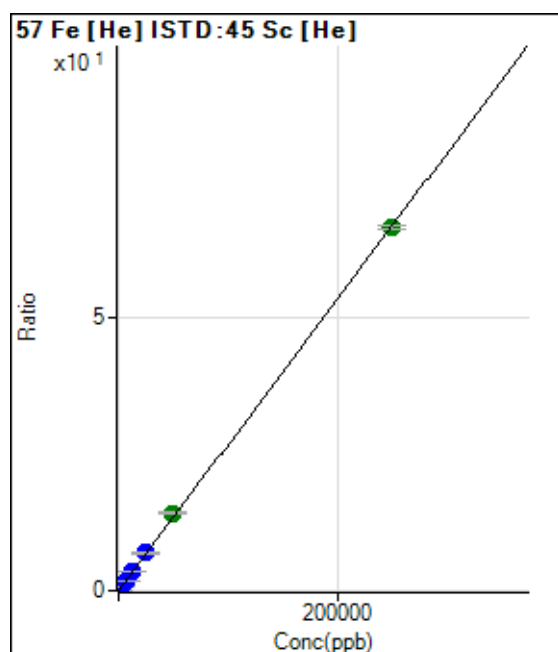
$$R = 0.9999$$

$$DL = 0.09014$$

$$BEC = 2.072$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	148.89	0.0008	P	17.8
2	☐	50.000	48.375	2653.61	0.0137	P	0.8
3	☐	2500.000	2550.000	130185.43	0.6804	P	1.3
4	☐	6250.000	6544.501	325514.65	1.7449	P	1.2
5	☐	12500.000	13141.199	626109.47	3.5030	P	0.8
6	☐	25000.000	26362.697	1238598.67	7.0267	P	4.9
7	☐	50000.000	52953.332	2538531.64	14.1134	A	2.4
8	☐	250000.00	249233.14	12571476.62	66.4239	A	1.1

$$y = 2.6651\text{E-}004 * x + 7.7176\text{E-}004$$

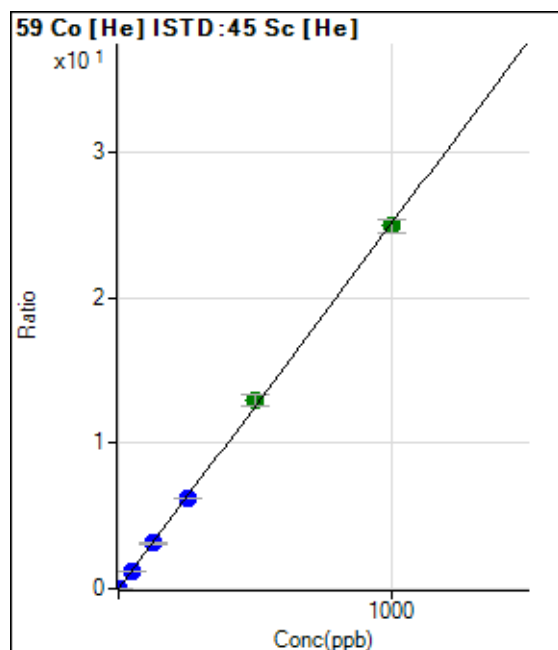
$$R = 0.9999$$

$$DL = 1.543$$

$$BEC = 2.896$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	64.44	0.0003	P	19.8
2	☐	1.000	0.921	4550.77	0.0234	P	1.3
3	☐	50.000	48.871	234670.22	1.2264	P	1.6
4	☐	125.000	124.088	580808.24	3.1134	P	0.8
5	☐	250.000	246.734	1106344.46	6.1903	P	1.4
6	☐	500.000	514.166	2272849.74	12.8996	A	6.2
7	☐	1000.000	993.904	4484355.80	24.9351	A	3.5
8	☐			11352.41	0.0600	P	1.9

$$y = 0.0251 * x + 3.3426\text{E-}004$$

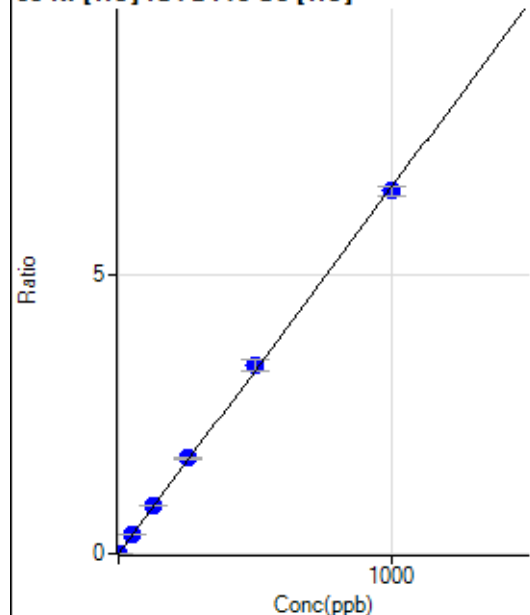
$$R = 0.9998$$

$$DL = 0.007907$$

$$BEC = 0.01332$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	77.78	0.0004	P	19.8
2	☐	1.000	0.996	1348.97	0.0069	P	2.2
3	☐	50.000	51.205	64420.57	0.3367	P	0.9
4	☐	125.000	130.659	160130.29	0.8584	P	1.5
5	☐	250.000	259.998	305225.53	1.7078	P	1.3
6	☐	500.000	513.258	593920.32	3.3709	P	6.3
7	☐	1000.000	990.104	1169507.25	6.5024	P	2.4
8	☐			3612.72	0.0191	P	2.6

$$y = 0.0066 * x + 4.0353E-004$$

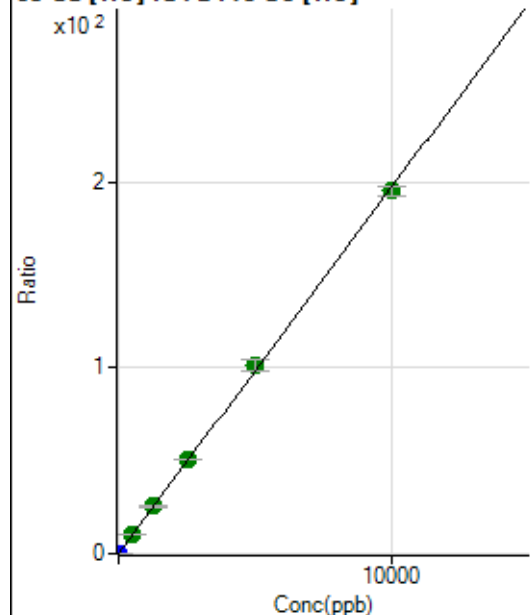
$$R = 0.9998$$

$$DL = 0.03653$$

$$BEC = 0.06145$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	606.69	0.0031	P	2.2
2	☐	2.000	1.859	7731.06	0.0398	P	1.2
3	☐	500.000	513.429	1937907.69	10.1275	A	1.6
4	☐	1250.000	1291.711	4752021.98	25.4744	A	1.4
5	☐	2500.000	2585.005	9111437.02	50.9769	A	0.4
6	☐	5000.000	5141.209	17866686.40	101.3827	A	5.7
7	☐	10000.000	9902.259	35119269.20	195.2658	A	2.7
8	☐			8098.02	0.0428	P	5.5

$$y = 0.0197 * x + 0.0031$$

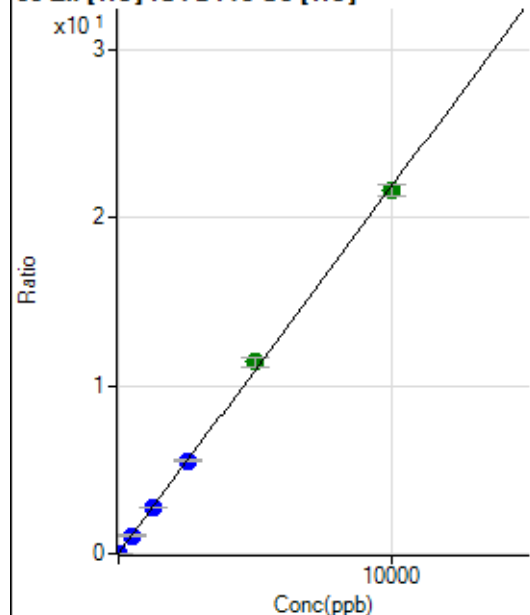
$$R = 0.9998$$

$$DL = 0.01033$$

$$BEC = 0.1595$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2349.11	0.0122	P	5.4
2	☐	2.000	2.054	3235.96	0.0167	P	4.0
3	☐	500.000	492.082	207811.53	1.0860	P	0.7
4	☐	1250.000	1257.677	514257.67	2.7567	P	1.0
5	☐	2500.000	2524.792	986855.38	5.5218	P	1.3
6	☐	5000.000	5227.055	2012662.80	11.4186	A	5.0
7	☐	10000.000	9879.711	3879385.57	21.5716	A	3.3
8	☐			5452.22	0.0288	P	1.4

$$y = 0.0022 * x + 0.0122$$

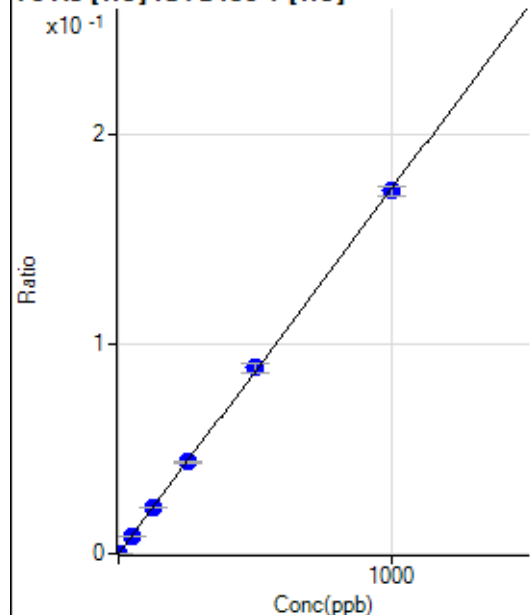
$$R = 0.9996$$

$$DL = 0.9125$$

$$BEC = 5.582$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	1.000	0.979	215.56	0.0002	P	9.8
3	☐	50.000	48.887	10738.63	0.0085	P	2.0
4	☐	125.000	125.751	26598.54	0.0219	P	1.2
5	☐	250.000	251.488	51364.58	0.0438	P	1.6
6	☐	500.000	510.018	101129.13	0.0889	P	5.4
7	☐	1000.000	994.581	201375.49	0.1734	P	2.3
8	☐			84.45	0.0001	P	7.6

$$y = 1.7431E-004 * x + 8.8657E-007$$

$$R = 0.9999$$

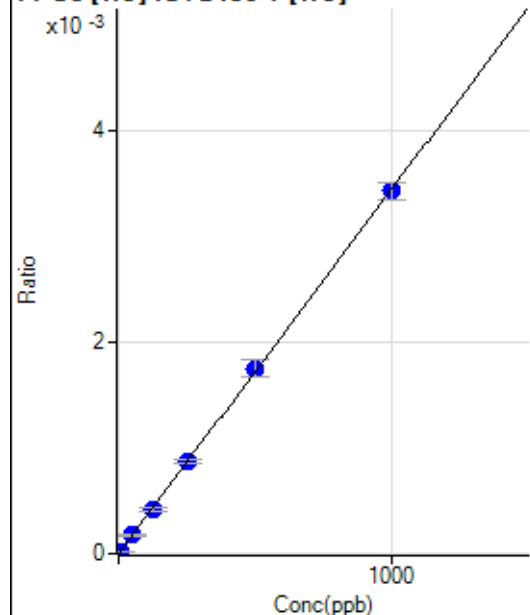
$$DL = 0.02643$$

$$BEC = 0.005086$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.609	20.00	0.0000	P	66.6
3	☐	50.000	50.882	221.12	0.0002	P	14.2
4	☐	125.000	119.916	502.24	0.0004	P	7.9
5	☐	250.000	253.519	1025.61	0.0009	P	5.4
6	☐	500.000	507.722	1991.28	0.0018	P	9.5
7	☐	1000.000	995.853	3992.83	0.0034	P	4.9
8	☐			27.78	0.0000	P	13.3

$$y = 3.4515\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

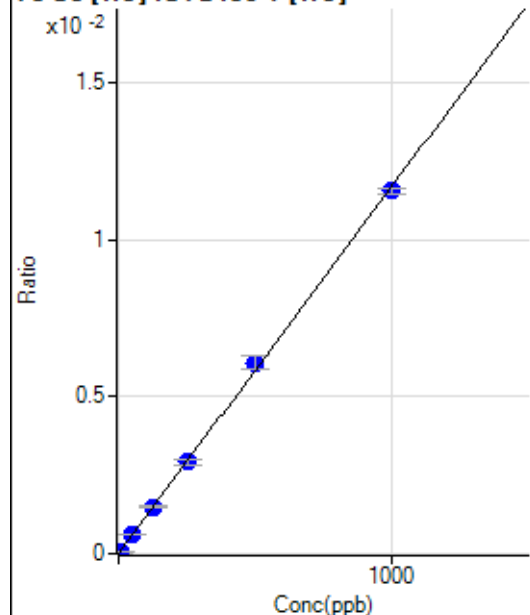
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7.78	0.0000	P	49.4
2	☐	5.000	4.315	71.11	0.0001	P	25.7
3	☐	50.000	53.531	795.59	0.0006	P	1.9
4	☐	125.000	127.760	1817.91	0.0015	P	2.0
5	☐	250.000	249.591	3421.57	0.0029	P	6.3
6	☐	500.000	521.100	6923.98	0.0061	P	7.7
7	☐	1000.000	989.034	13424.30	0.0116	P	1.5
8	☐			97.78	0.0001	P	7.5

$$y = 1.1678\text{E-}005 * x + 6.1972\text{E-}006$$

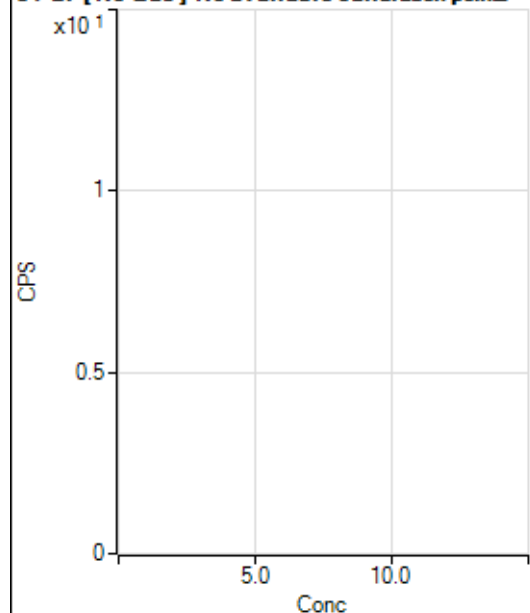
$$R = 0.9997$$

$$DL = 0.7865$$

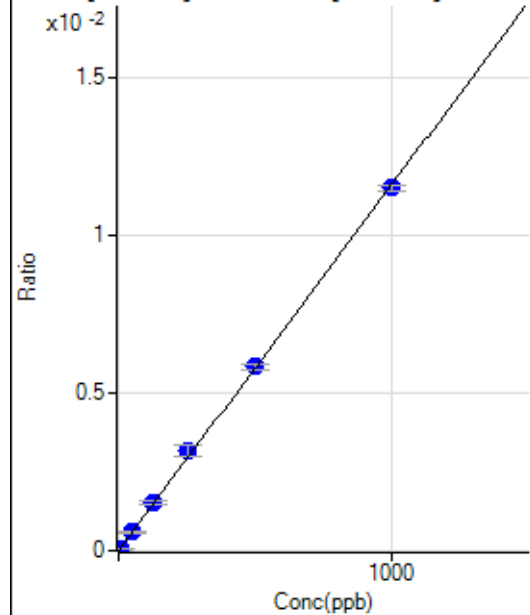
$$BEC = 0.5307$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2004.61		P	4.7
2	☐			2115.74		P	3.3
3	☐			2146.85		P	4.4
4	☐			2024.61		P	7.9
5	☐			2043.51		P	4.8
6	☐			1946.82		P	1.5
7	☐			2243.54		P	3.0
8	☐			4368.51		P	8.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-5.56	0.0000	P	-248.
2	☐	5.000	4.440	525.58	0.0001	P	14.5
3	☐	50.000	50.516	6084.81	0.0006	P	4.3
4	☐	125.000	128.979	15691.33	0.0015	P	8.2
5	☐	250.000	273.792	30544.85	0.0032	P	11.0
6	☐	500.000	503.259	59428.64	0.0058	P	3.2
7	☐	1000.000	991.902	113154.41	0.0115	P	1.7
8	☐			590.03	0.0001	P	2.3

$$y = 1.1582E-005 * x - 5.3787E-007$$

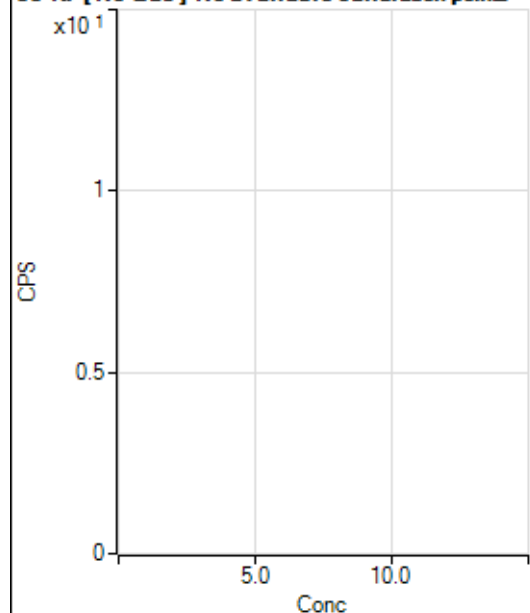
$$R = 0.9997$$

$$DL = 0.3466$$

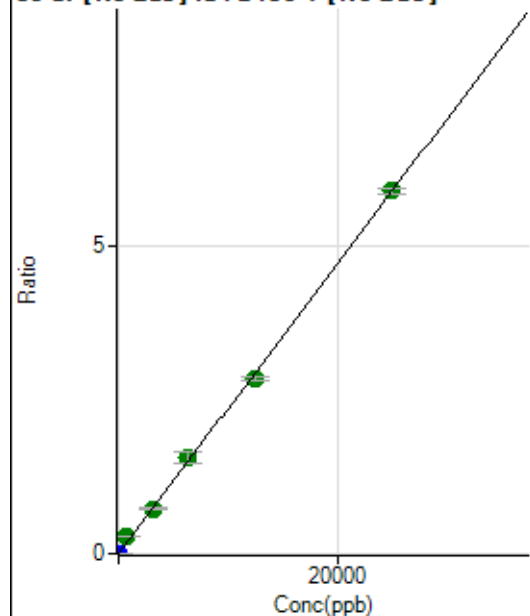
$$BEC = -0.04644$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			185.56		P	1.0
2	☐			210.00		P	7.9
3	☐			185.56		P	15.3
4	☐			172.22		P	11.3
5	☐			191.11		P	11.6
6	☐			204.45		P	17.1
7	☐			176.67		P	19.9
8	☐			183.34		P	16.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	347.79	0.0000	P	14.3
2	☐	1.000	0.861	2436.90	0.0002	P	3.5
3	☐	625.000	1249.481	3055646.69	0.2934	A	1.7
4	☐	3125.000	3109.797	7680987.59	0.7303	A	5.8
5	☐	6250.000	6689.262	15128747.41	1.5708	A	11.4
6	☐	12500.000	12094.695	28960588.18	2.8401	A	3.0
7	☐	25000.000	25079.126	58008013.58	5.8892	A	1.5
8	☐			8479.03	0.0009	P	21.9

$$y = 2.3482E-004 * x + 3.3438E-005$$

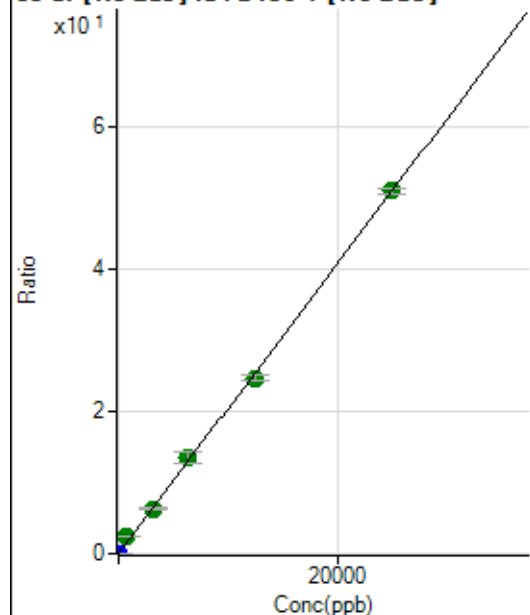
$$R = 0.9994$$

$$DL = 0.06098$$

$$BEC = 0.1424$$

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	736.70	0.0001	P	7.7
2	☐	1.000	0.857	18786.04	0.0018	P	2.2
3	☐	625.000	1236.954	26260889.89	2.5219	A	1.7
4	☐	3125.000	3100.677	66476894.56	6.3215	A	6.3
5	☐	6250.000	6659.208	130702050.2	13.5764	A	11.9
6	☐	12500.000	12148.301	252556978.4	24.7672	A	2.7
7	☐	25000.000	25061.289	503281925.8	51.0932	A	1.4
8	☐			69607.02	0.0073	P	21.0

$$y = 0.0020 * x + 7.0847E-005$$

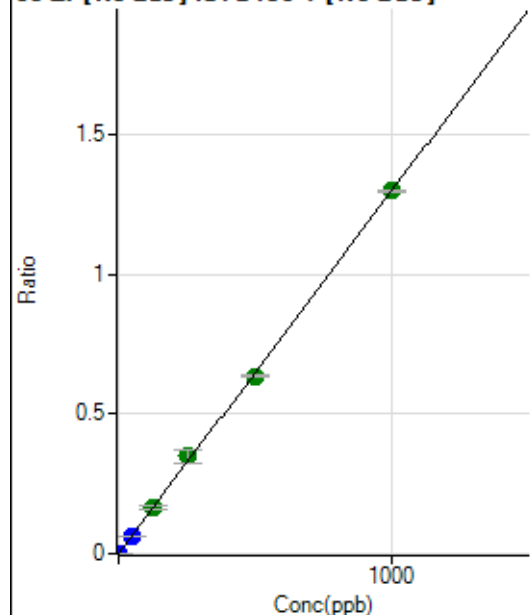
$$R = 0.9994$$

$$DL = 0.008072$$

$$BEC = 0.03475$$

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	474.46	0.0000	P	10.1
2	☐	1.000	0.850	11874.03	0.0011	P	1.3
3	☐	50.000	48.424	654507.58	0.0629	P	2.0
4	☐	125.000	126.792	1729257.16	0.1645	A	7.6
5	☐	250.000	268.472	3349846.93	0.3483	A	13.3
6	☐	500.000	489.310	6474252.40	0.6347	A	0.9
7	☐	1000.000	1000.582	12786583.56	1.2979	A	0.6
8	☐			5831.29	0.0006	P	7.0

$$y = 0.0013 * x + 4.5658E-005$$

$$R = 0.9997$$

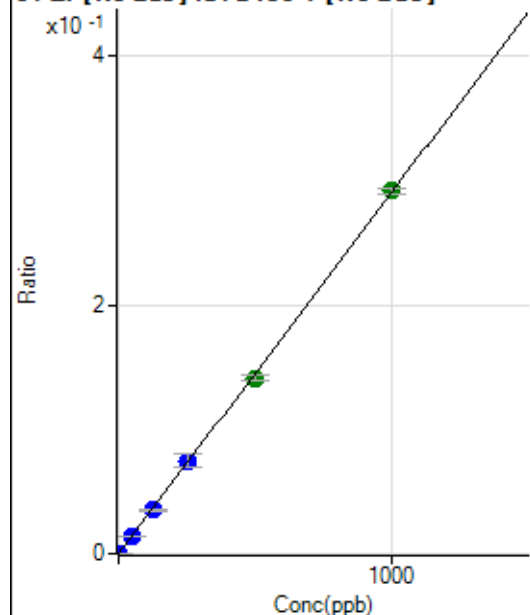
$$DL = 0.01063$$

$$BEC = 0.0352$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	96.67	0.0000	P	20.0
2	☐	1.000	0.843	2623.61	0.0003	P	2.0
3	☐	50.000	47.575	143727.41	0.0138	P	1.3
4	☐	125.000	119.851	365486.29	0.0348	P	6.2
5	☐	250.000	258.096	720025.56	0.0748	P	12.7
6	☐	500.000	487.343	1440695.36	0.1413	A	3.3
7	☐	1000.000	1005.070	2870253.12	0.2914	A	1.6
8	☐			1322.30	0.0001	P	6.9

$$y = 2.8990\text{E-}004 * x + 9.2906\text{E-}006$$

$$R = 0.9998$$

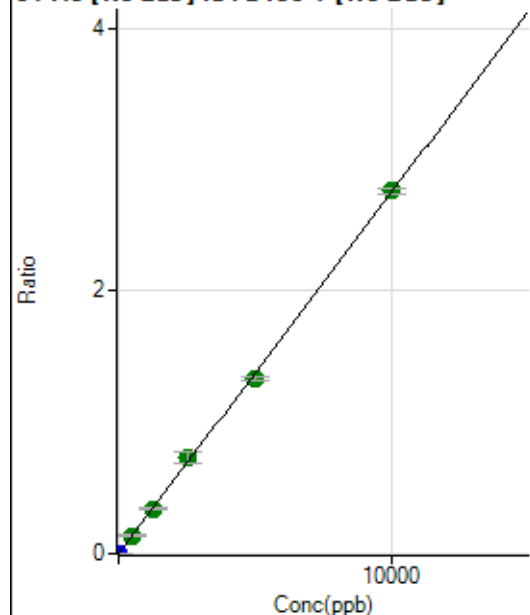
$$DL = 0.01927$$

$$BEC = 0.03205$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	173.33	0.0000	P	8.2
2	☐	5.000	5.112	14712.32	0.0014	P	2.8
3	☐	500.000	504.996	1447035.90	0.1390	A	3.0
4	☐	1250.000	1247.451	3610403.45	0.3433	A	6.1
5	☐	2500.000	2658.346	7047444.06	0.7316	A	11.0
6	☐	5000.000	4846.775	13602599.80	1.3338	A	1.8
7	☐	10000.000	10037.095	27207734.32	2.7621	A	1.4
8	☐			6915.53	0.0007	P	12.1

$$y = 2.7519\text{E-}004 * x + 1.6668\text{E-}005$$

$$R = 0.9997$$

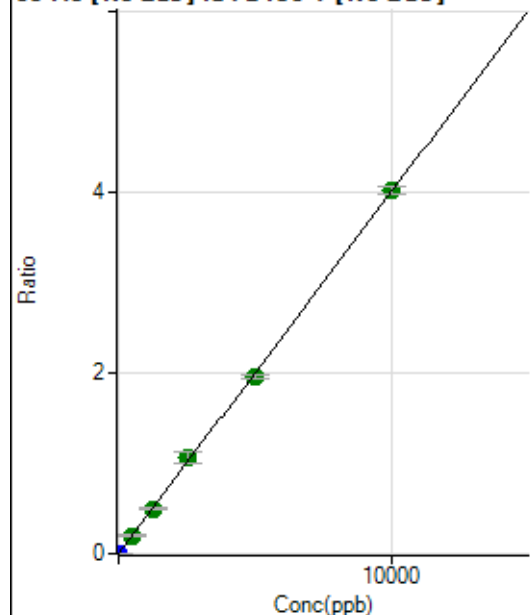
$$DL = 0.01486$$

$$BEC = 0.06057$$

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	35.56	0.0000	P	48.6
2	☐	5.000	4.204	17439.95	0.0017	P	3.6
3	☐	500.000	500.109	2085711.44	0.2003	A	2.6
4	☐	1250.000	1236.286	5208435.20	0.4952	A	5.7
5	☐	2500.000	2648.234	10215399.50	1.0607	A	11.4
6	☐	5000.000	4887.268	19960869.84	1.9575	A	3.1
7	☐	10000.000	10021.017	39533357.19	4.0138	A	2.1
8	☐			7873.53	0.0008	P	17.5

$$y = 4.0053\text{E-}004 * x + 3.4274\text{E-}006$$

$$R = 0.9998$$

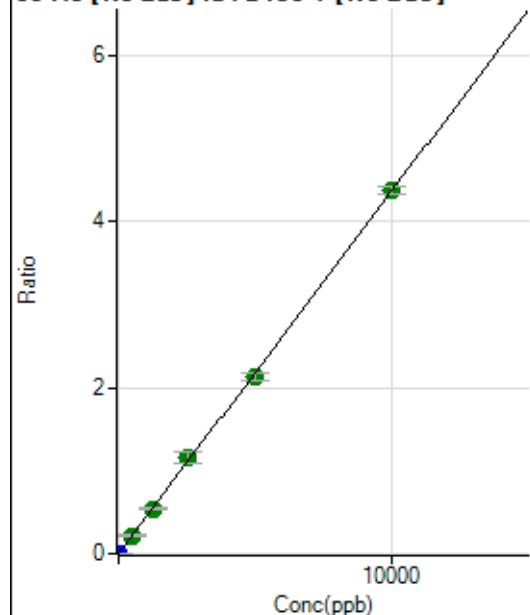
$$DL = 0.01248$$

$$BEC = 0.008557$$

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	322.23	0.0000	P	5.6
2	☐	5.000	4.244	19451.49	0.0019	P	2.1
3	☐	500.000	502.437	2281718.70	0.2191	A	1.9
4	☐	1250.000	1244.018	5701758.11	0.5425	A	7.7
5	☐	2500.000	2659.759	11173733.31	1.1599	A	11.0
6	☐	5000.000	4892.486	21753333.43	2.1335	A	3.6
7	☐	10000.000	10014.443	43013099.08	4.3670	A	2.1
8	☐			9284.39	0.0010	P	15.3

$$y = 4.3607\text{E-}004 * x + 3.1001\text{E-}005$$

$$R = 0.9998$$

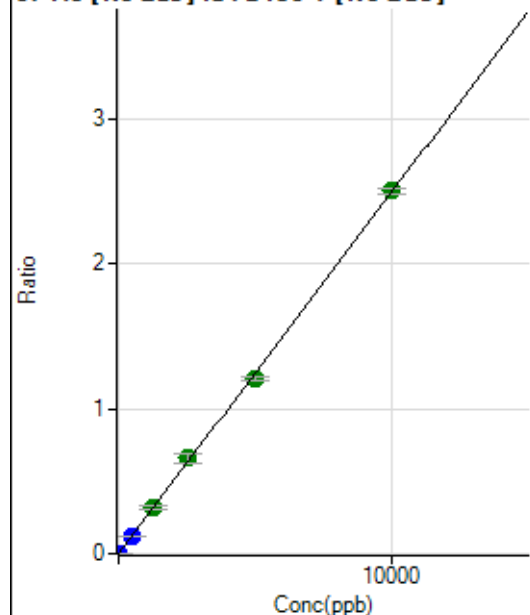
$$DL = 0.01203$$

$$BEC = 0.07109$$

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	20.00	0.0000	P	33.0
2	☐	5.000	4.297	11097.83	0.0011	P	4.5
3	☐	500.000	483.652	1256278.74	0.1207	P	2.1
4	☐	1250.000	1262.629	3309906.86	0.3150	A	8.1
5	☐	2500.000	2633.826	6326416.57	0.6570	A	11.7
6	☐	5000.000	4857.312	12356754.40	1.2117	A	2.5
7	☐	10000.000	10037.127	24661756.30	2.5038	A	1.9
8	☐			4804.29	0.0005	P	18.0

$$y = 2.4946\text{E-}004 * x + 1.9217\text{E-}006$$

$$R = 0.9998$$

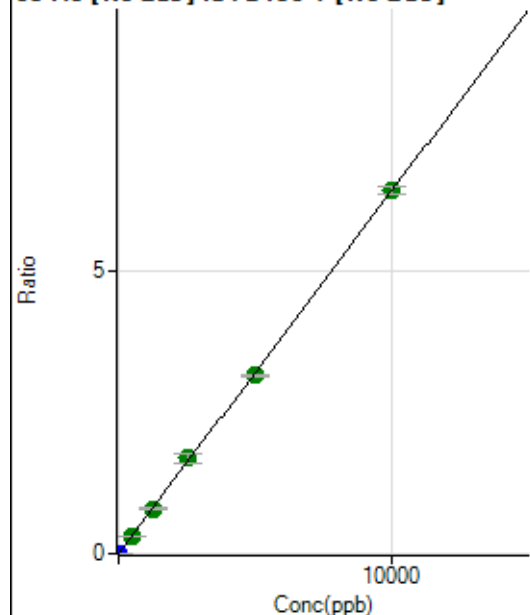
$$DL = 0.007616$$

$$BEC = 0.007704$$

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	118.89	0.0000	P	2.8
2	☐	5.000	4.238	28218.78	0.0027	P	2.4
3	☐	500.000	486.296	3248093.63	0.3119	A	2.6
4	☐	1250.000	1240.624	8365502.72	0.7958	A	7.1
5	☐	2500.000	2630.499	16247110.04	1.6873	A	11.7
6	☐	5000.000	4923.360	32209523.41	3.1580	A	1.4
7	☐	10000.000	10007.553	63229120.17	6.4191	A	2.0
8	☐			12123.38	0.0013	P	15.5

$$y = 6.4143\text{E-}004 * x + 1.1436\text{E-}005$$

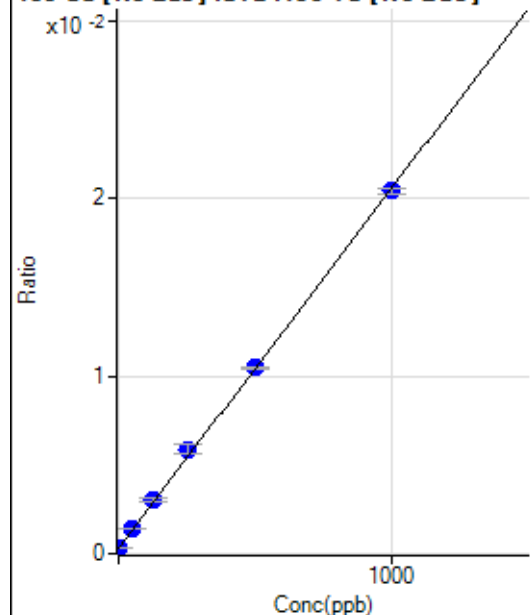
$$R = 0.9999$$

$$DL = 0.00149$$

$$BEC = 0.01783$$

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	2952.57	0.0003	P	0.5
2	☐	1.000	0.476	3119.27	0.0003	P	5.4
3	☐	50.000	51.910	12551.39	0.0014	P	1.1
4	☐	125.000	131.737	27284.82	0.0030	P	6.8
5	☐	250.000	274.702	50724.12	0.0059	P	9.5
6	☐	500.000	499.837	95517.13	0.0104	P	1.2
7	☐	1000.000	992.969	180770.30	0.0204	P	1.9
8	☐			2578.05	0.0003	P	7.3

$$y = 2.0222\text{E-}005 * x + 3.3372\text{E-}004$$

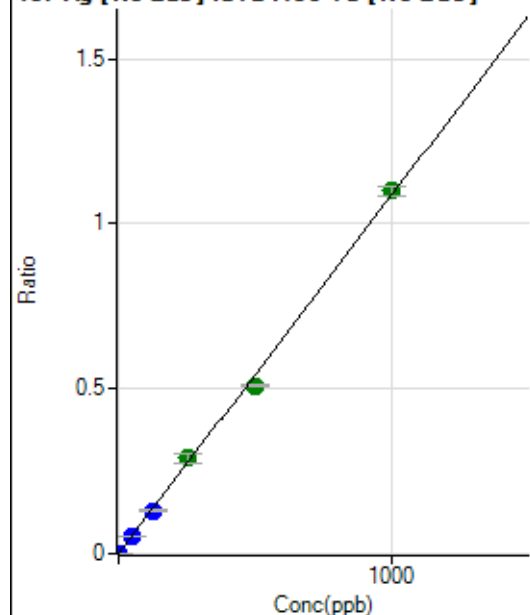
$$R = 0.9996$$

$$DL = 0.2515$$

$$BEC = 16.5$$

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	35.56	0.0000	P	23.9
2	☐	1.000	0.832	8249.20	0.0009	P	2.0
3	☐	50.000	47.462	467493.27	0.0515	P	1.8
4	☐	125.000	119.407	1180689.22	0.1297	P	5.4
5	☐	250.000	266.342	2490296.07	0.2892	A	10.0
6	☐	500.000	468.707	4655981.46	0.5089	A	1.4
7	☐	1000.000	1012.388	9733513.61	1.0993	A	2.4
8	☐			1861.26	0.0002	P	15.4

$$y = 0.0011 * x + 4.0209\text{E-}006$$

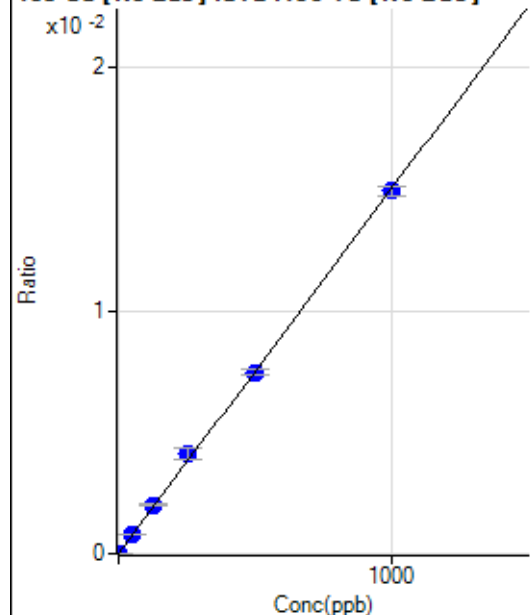
$$R = 0.9991$$

$$DL = 0.002658$$

$$BEC = 0.003703$$

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	8.89	0.0000	P	21.7
2	☐	1.000	0.796	117.78	0.0000	P	15.0
3	☐	50.000	51.487	7021.85	0.0008	P	4.0
4	☐	125.000	133.237	18229.95	0.0020	P	5.9
5	☐	250.000	273.964	35438.85	0.0041	P	10.0
6	☐	500.000	497.521	68355.40	0.0075	P	2.9
7	☐	1000.000	994.145	132199.96	0.0149	P	3.0
8	☐			122.22	0.0000	P	10.2

$$y = 1.5019\text{E-}005 * x + 1.0049\text{E-}006$$

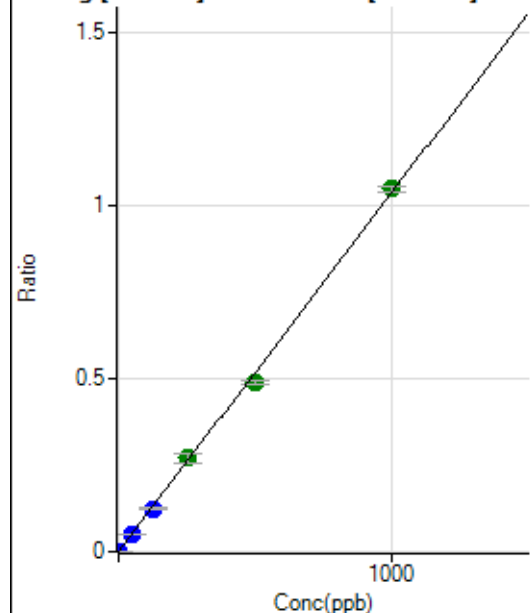
$$R = 0.9997$$

$$DL = 0.04349$$

$$BEC = 0.06691$$

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	28.89	0.0000	P	44.3
2	☐	1.000	0.842	7973.49	0.0009	P	4.3
3	☐	50.000	47.695	449169.48	0.0495	P	0.9
4	☐	125.000	120.540	1139091.80	0.1251	P	6.6
5	☐	250.000	260.034	2323756.06	0.2700	A	10.5
6	☐	500.000	473.751	4498659.55	0.4918	A	2.4
7	☐	1000.000	1011.289	9296017.50	1.0499	A	1.9
8	☐			1721.24	0.0002	P	13.6

$$y = 0.0010 * x + 3.2708\text{E-}006$$

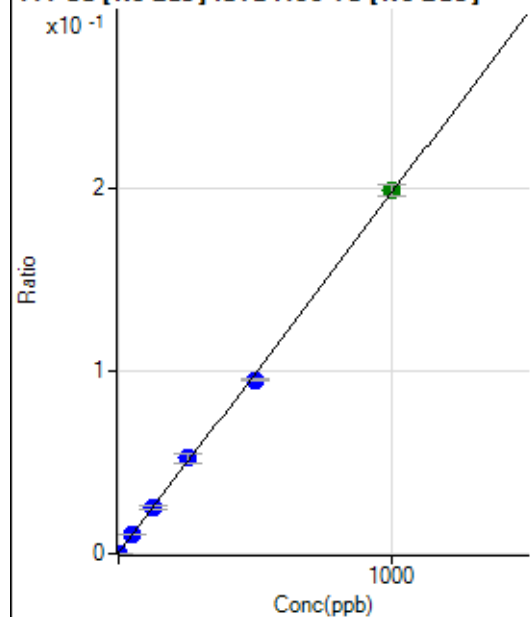
$$R = 0.9994$$

$$DL = 0.004189$$

$$BEC = 0.003151$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2061.69	0.0002	P	0.4
2	☐	1.000	0.915	3757.83	0.0004	P	4.3
3	☐	50.000	50.686	92849.86	0.0102	P	1.3
4	☐	125.000	127.165	230579.05	0.0253	P	6.1
5	☐	250.000	264.165	450698.58	0.0524	P	10.7
6	☐	500.000	480.430	869413.54	0.0950	P	1.4
7	☐	1000.000	1005.939	1759708.55	0.1987	A	3.3
8	☐			2589.12	0.0003	P	3.6

$$y = 1.9734\text{E-}004 * x + 2.3303\text{E-}004$$

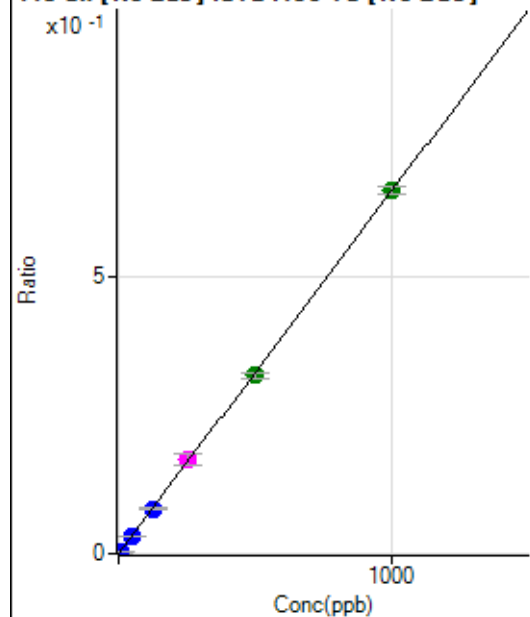
$$R = 0.9996$$

$$DL = 0.01517$$

$$BEC = 1.181$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	387.79	0.0000	P	13.5
2	☐	5.000	4.447	26847.53	0.0030	P	3.6
3	☐	50.000	49.855	296464.73	0.0327	P	1.5
4	☐	125.000	124.104	740299.53	0.0813	P	5.4
5	☐	250.000	261.737	1473673.96	0.1714	M	12.4
6	☐	500.000	492.429	2949174.92	0.3224	A	3.3
7	☐	1000.000	1000.973	5803651.30	0.6554	A	2.0
8	☐			3663.86	0.0004	P	7.2

$$y = 6.5470\text{E-}004 * x + 4.3820\text{E-}005$$

$$R = 0.9999$$

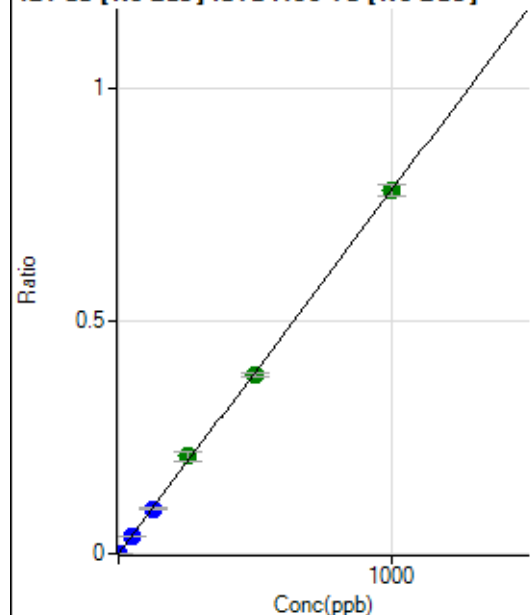
$$DL = 0.02718$$

$$BEC = 0.06693$$

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	24.45	0.0000	P	64.6
2	☐	2.000	1.735	12327.86	0.0014	P	1.6
3	☐	50.000	49.375	349587.21	0.0385	P	1.2
4	☐	125.000	124.304	882981.75	0.0970	P	7.0
5	☐	250.000	268.947	1807372.56	0.2099	A	10.1
6	☐	500.000	493.813	3525606.27	0.3854	A	1.9
7	☐	1000.000	998.476	6899537.33	0.7793	A	3.2
8	☐			3338.24	0.0004	P	16.1

$$y = 7.8050\text{E-}004 * x + 2.7653\text{E-}006$$

$$R = 0.9998$$

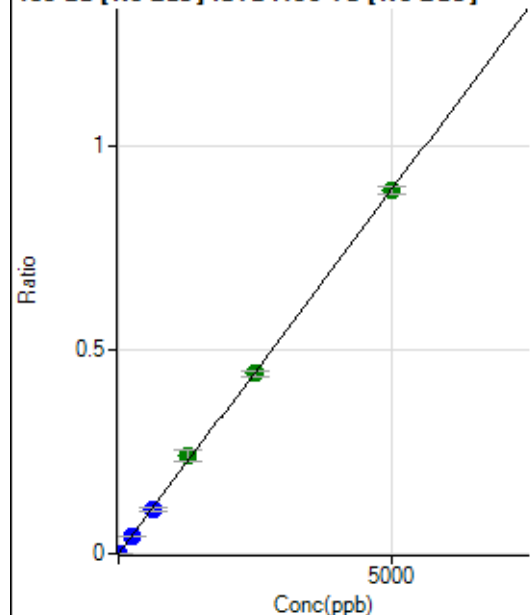
$$DL = 0.006871$$

$$BEC = 0.003543$$

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	43.33	0.0000	P	20.4
2	☐	10.000	8.692	14134.15	0.0016	P	2.4
3	☐	250.000	243.783	394604.73	0.0435	P	1.0
4	☐	625.000	611.888	993864.44	0.1092	P	6.4
5	☐	1250.000	1356.927	2082899.08	0.2421	A	11.5
6	☐	2500.000	2474.190	4038030.88	0.4415	A	2.4
7	☐	5000.000	4988.126	7880395.78	0.8900	A	2.2
8	☐			4211.82	0.0005	P	5.4

$$y = 1.7843\text{E-}004 * x + 4.8987\text{E-}006$$

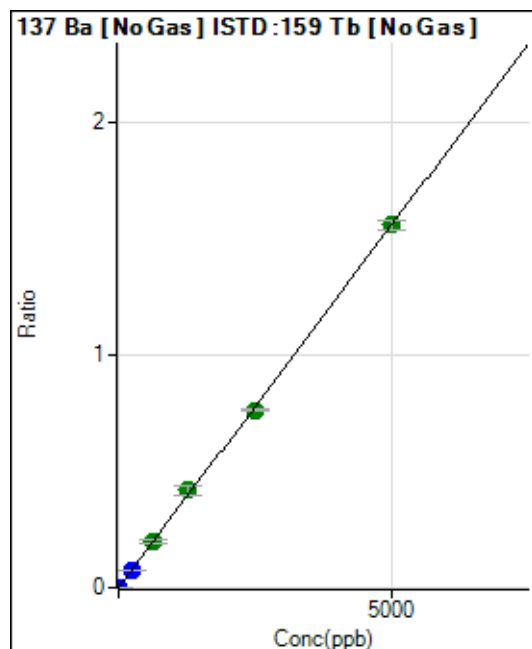
$$R = 0.9997$$

$$DL = 0.01681$$

$$BEC = 0.02745$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	67.78	0.0000	P	25.3
2	☐	10.000	8.702	24700.44	0.0027	P	2.0
3	☐	250.000	248.013	700895.83	0.0773	P	1.6
4	☐	625.000	633.174	1795466.60	0.1973	A	6.6
5	☐	1250.000	1344.111	3606264.53	0.4187	A	9.7
6	☐	2500.000	2445.203	6968393.09	0.7618	A	1.4
7	☐	5000.000	5002.951	13799705.90	1.5586	A	2.5
8	☐			7531.09	0.0009	P	7.5

$$y = 3.1153\text{E-}004 * x + 7.6629\text{E-}006$$

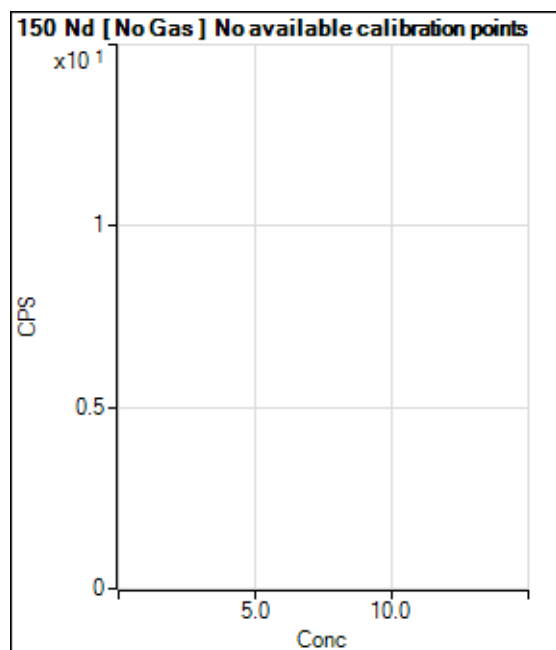
$$R = 0.9997$$

$$DL = 0.0187$$

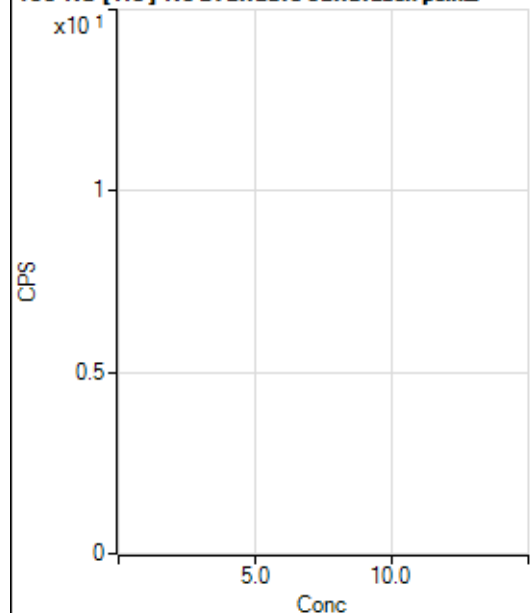
$$BEC = 0.0246$$

Weight: <None>

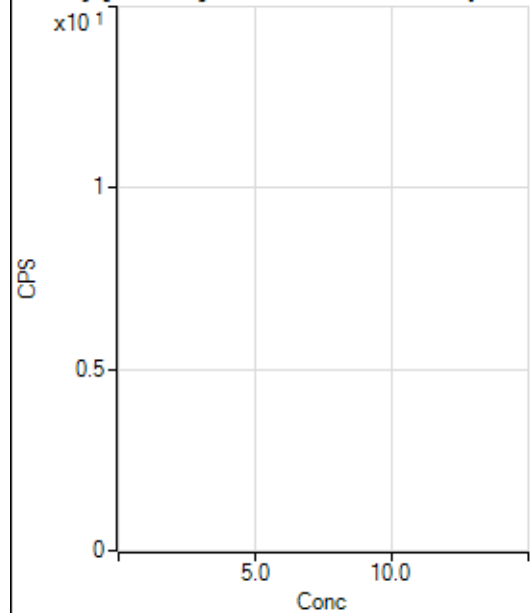
Min Conc: 0



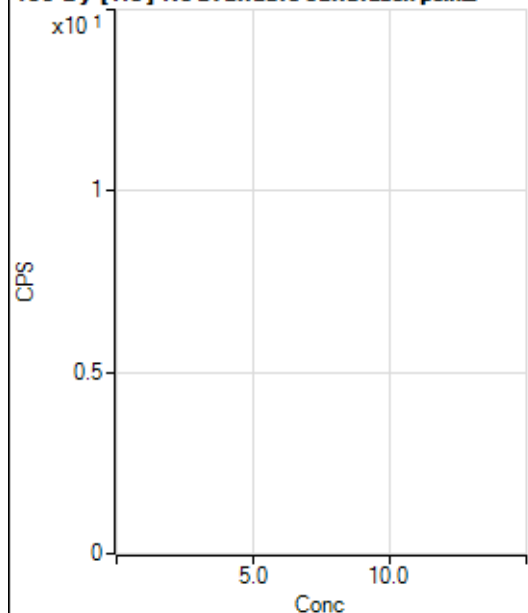
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	99.0
2	☐			20.00		P	33.4
3	☐			20.00		P	60.1
4	☐			48.89		P	35.0
5	☐			95.55		P	11.2
6	☐			178.89		P	13.5
7	☐			326.67		P	2.7
8	☐			285.56		P	6.4

150 Nd [He] No available calibration points

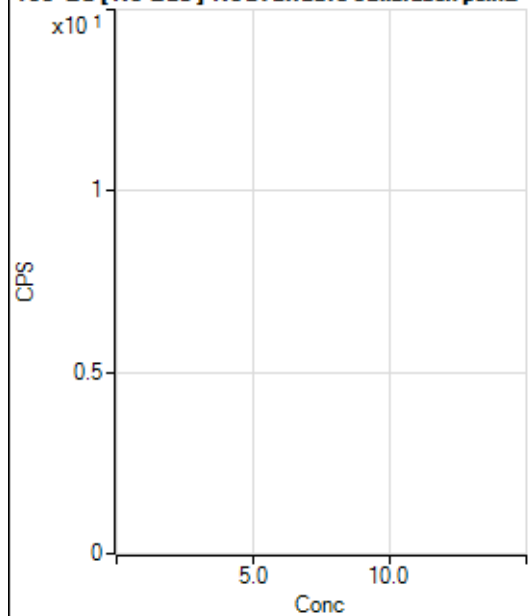
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.1
2	☐			6.67		P	50.0
3	☐			6.67		P	132.3
4	☐			12.22		P	15.7
5	☐			20.00		P	28.9
6	☐			17.78		P	39.0
7	☐			36.67		P	24.0
8	☐			98.89		P	14.0

156 Dy [No Gas] No available calibration points

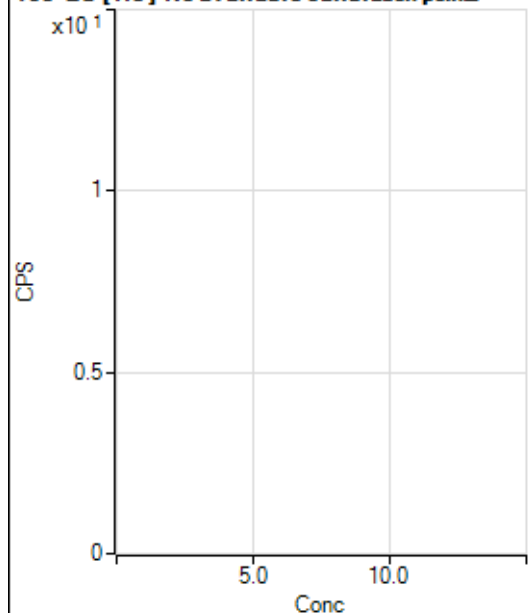
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.1
2	☐			11.11		P	75.5
3	☐			25.56		P	45.8
4	☐			71.11		P	16.5
5	☐			107.78		P	12.5
6	☐			238.89		P	17.1
7	☐			402.23		P	2.7
8	☐			1450.09		P	5.6

156 Dy [He] No available calibration points

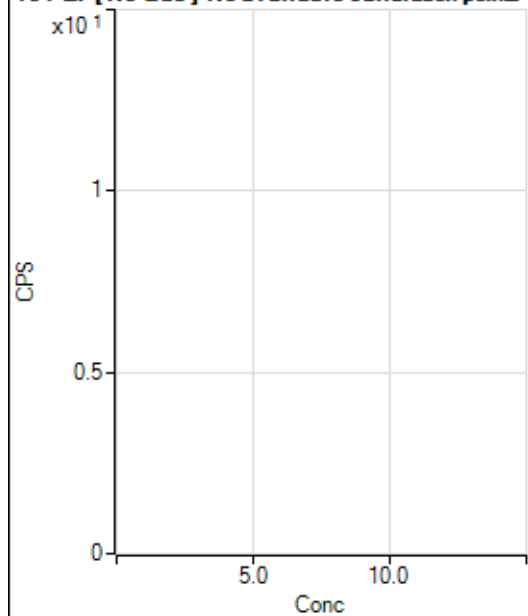
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.1
2	☐			4.44		P	43.4
3	☐			6.67		P	132.3
4	☐			40.00		P	22.0
5	☐			71.11		P	5.4
6	☐			136.67		P	6.5
7	☐			241.11		P	11.8
8	☐			868.93		P	1.3

160 Gd [No Gas] Noavailable calibration poin_

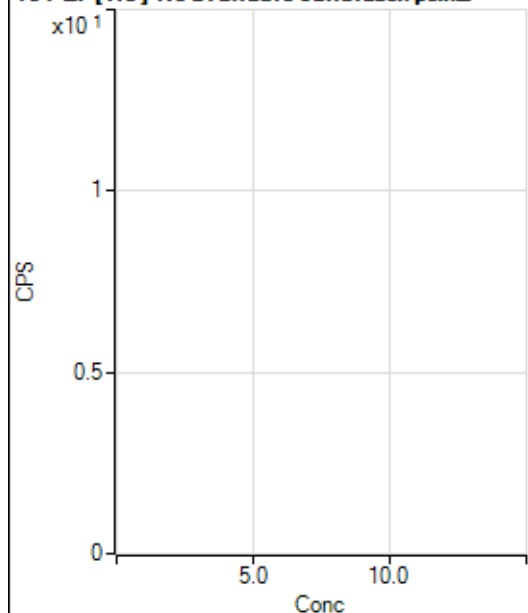
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			87.78		P	15.3
2	☐			88.89		P	30.1
3	☐			110.00		P	18.2
4	☐			128.89		P	26.5
5	☐			174.45		P	14.3
6	☐			274.45		P	12.5
7	☐			423.35		P	7.2
8	☐			1650.12		P	4.8

160 Gd [He] No available calibration points

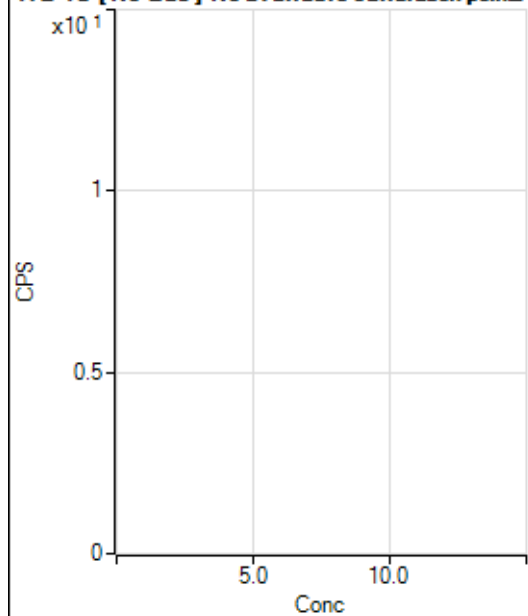
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			106.67		P	30.1
2	☐			125.56		P	1.5
3	☐			126.67		P	19.9
4	☐			118.89		P	20.3
5	☐			157.78		P	15.0
6	☐			205.56		P	1.9
7	☐			305.56		P	4.1
8	☐			1124.50		P	5.5

164 Er [No Gas] No available calibration points

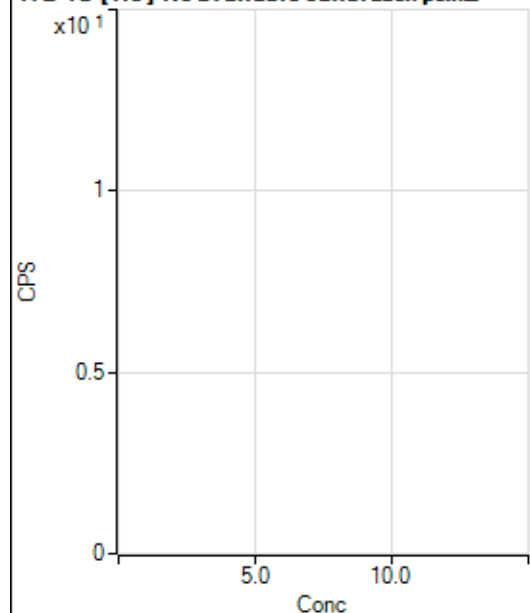
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.67		P	15.0
2	☐			70.00		P	20.8
3	☐			60.00		P	14.7
4	☐			62.22		P	32.3
5	☐			58.89		P	8.6
6	☐			95.56		P	10.1
7	☐			106.67		P	3.1
8	☐			263.34		P	18.9

164 Er [He] No available calibration points

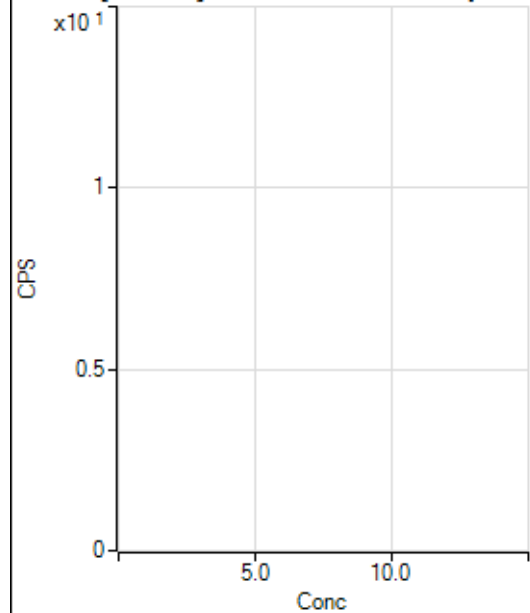
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			37.78		P	13.5
2	☐			32.22		P	41.8
3	☐			25.56		P	30.1
4	☐			30.00		P	29.4
5	☐			40.00		P	16.7
6	☐			42.22		P	27.7
7	☐			53.33		P	25.0
8	☐			137.78		P	12.2

172 Yb [No Gas] No available calibration points

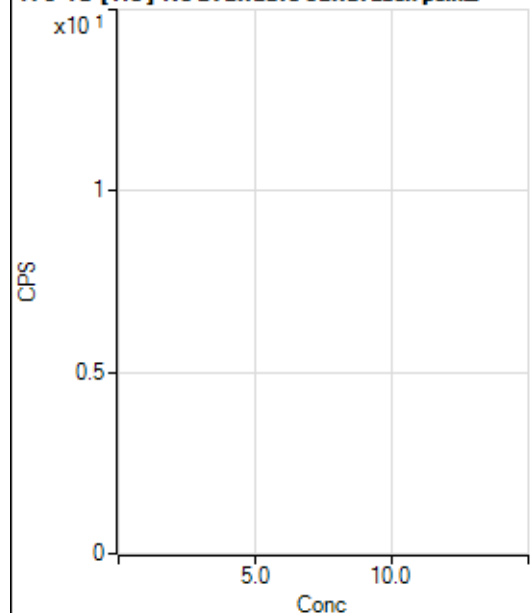
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			58.89		P	22.9
2	☐			58.89		P	16.3
3	☐			62.22		P	15.5
4	☐			80.00		P	19.1
5	☐			81.11		P	2.4
6	☐			122.23		P	1.6
7	☐			195.56		P	21.0
8	☐			191.11		P	15.6

172 Yb [He] No available calibration points

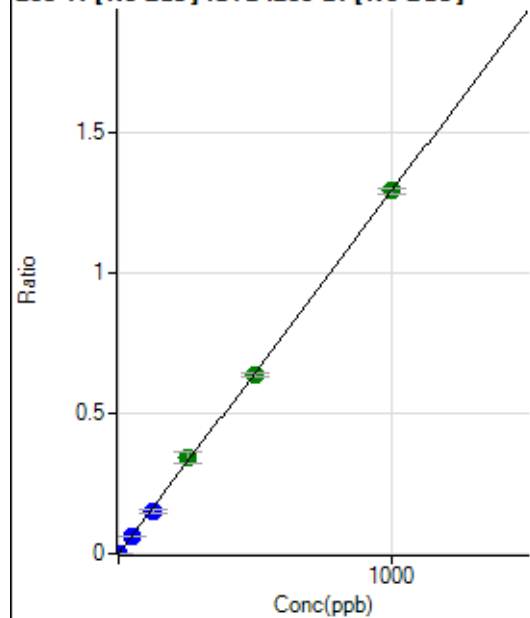
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.00		P	19.2
2	☐			35.56		P	23.6
3	☐			38.89		P	42.3
4	☐			52.22		P	7.4
5	☐			47.78		P	8.1
6	☐			73.33		P	4.5
7	☐			111.11		P	12.5
8	☐			108.89		P	1.8

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1251.19		P	2.2
2	☐			1243.41		P	1.2
3	☐			2609.17		P	6.3
4	☐			4925.42		P	1.0
5	☐			8487.24		P	1.5
6	☐			16301.27		P	0.9
7	☐			30817.11		P	1.3
8	☐			1187.85		P	5.0

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8398.29		P	3.5
2	☐			8488.37		P	4.9
3	☐			9302.26		P	1.6
4	☐			9837.09		P	0.9
5	☐			11627.47		P	2.4
6	☐			15518.15		P	3.5
7	☐			23204.97		P	1.0
8	☐			7886.88		P	3.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	33.33	0.0000	P	20.4
2	☐	1.000	0.829	6406.08	0.0011	P	2.8
3	☐	50.000	45.622	354756.04	0.0589	P	0.4
4	☐	125.000	116.546	893729.91	0.1504	P	6.7
5	☐	250.000	266.082	1905667.16	0.3433	A	10.7
6	☐	500.000	492.886	3779629.08	0.6359	A	2.6
7	☐	1000.000	1000.812	7223986.77	1.2912	A	1.6
8	☐			2482.52	0.0005	P	89.3

$$y = 0.0013 * x + 5.6872E-006$$

$$R = 0.9998$$

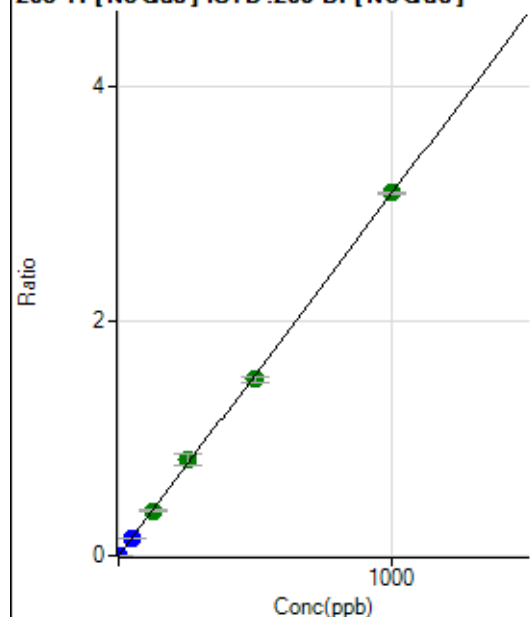
$$DL = 0.002694$$

$$BEC = 0.004408$$

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	96.67	0.0000	P	41.2
2	☐	1.000	0.819	15156.73	0.0025	P	2.3
3	☐	50.000	45.868	853468.75	0.1416	P	0.1
4	☐	125.000	124.353	2282263.37	0.3839	A	6.1
5	☐	250.000	264.735	4534829.48	0.8173	A	11.5
6	☐	500.000	487.465	8944162.02	1.5048	A	3.1
7	☐	1000.000	1002.871	17321813.91	3.0959	A	0.4
8	☐			5956.97	0.0012	P	85.6

$$y = 0.0031 * x + 1.6519E-005$$

$$R = 0.9998$$

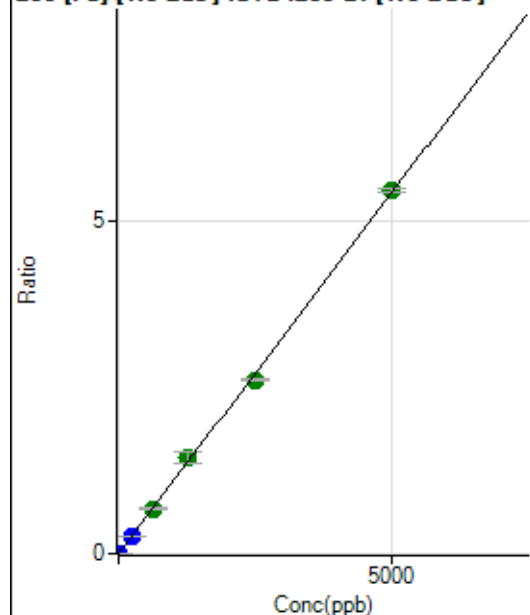
$$DL = 0.006613$$

$$BEC = 0.005351$$

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	115.56	0.0000	P	4.2
2	☐	1.000	0.806	5313.36	0.0009	P	2.8
3	☐	250.000	228.353	1490475.79	0.2473	P	0.7
4	☐	625.000	620.658	3996774.63	0.6722	A	5.6
5	☐	1250.000	1325.257	7963036.75	1.4352	A	11.5
6	☐	2500.000	2409.901	15514178.93	2.6099	A	1.3
7	☐	5000.000	5027.860	30465179.82	5.4451	A	1.1
8	☐			17993.42	0.0036	P	35.7

$$y = 0.0011 * x + 1.9708E-005$$

$$R = 0.9996$$

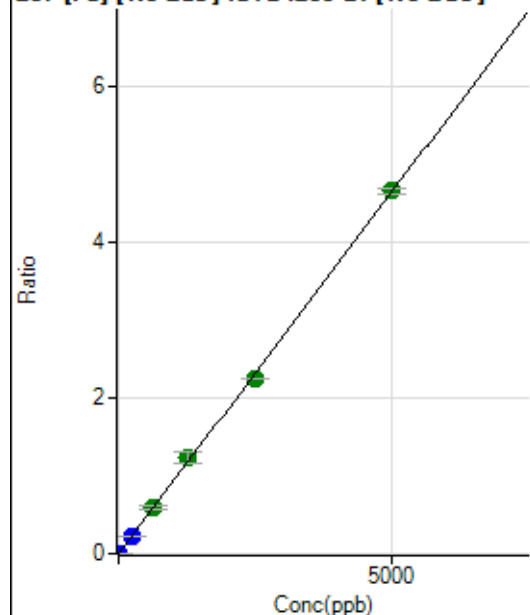
$$DL = 0.002266$$

$$BEC = 0.0182$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	121.11	0.0000	P	14.1
2	☐	1.000	0.842	4782.04	0.0008	P	1.7
3	☐	250.000	232.315	1301092.90	0.2159	P	1.9
4	☐	625.000	636.830	3519484.50	0.5918	A	5.2
5	☐	1250.000	1333.079	6869843.30	1.2388	A	12.2
6	☐	2500.000	2417.383	13355237.72	2.2464	A	0.3
7	☐	5000.000	5019.944	26100808.78	4.6650	A	1.5
8	☐			14927.15	0.0030	P	31.6

$$y = 9.2928\text{E-}004 * x + 2.0667\text{E-}005$$

$$R = 0.9996$$

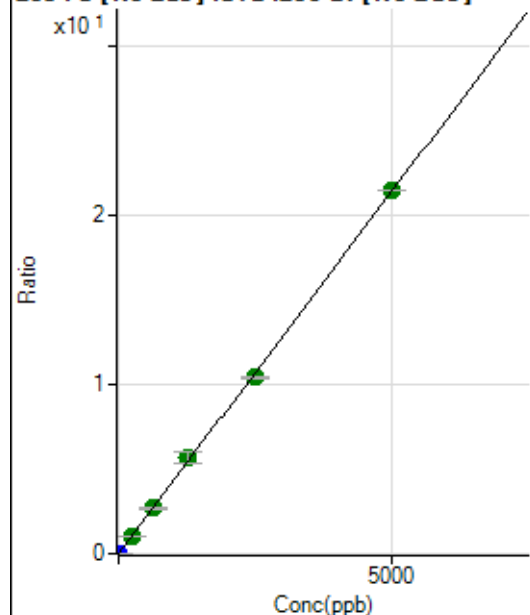
$$DL = 0.009405$$

$$BEC = 0.02224$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	531.12	0.0001	P	0.9
2	☐	1.000	0.819	21432.69	0.0036	P	2.7
3	☐	250.000	240.005	6196632.95	1.0283	A	1.6
4	☐	625.000	628.402	16006428.17	2.6921	A	5.8
5	☐	1250.000	1334.508	31685926.47	5.7170	A	13.0
6	☐	2500.000	2431.444	61923440.05	10.4162	A	0.2
7	☐	5000.000	5013.225	120162688.2	21.4764	A	0.1
8	☐			68459.71	0.0137	P	30.2

$$y = 0.0043 * x + 9.0583\text{E-}005$$

$$R = 0.9997$$

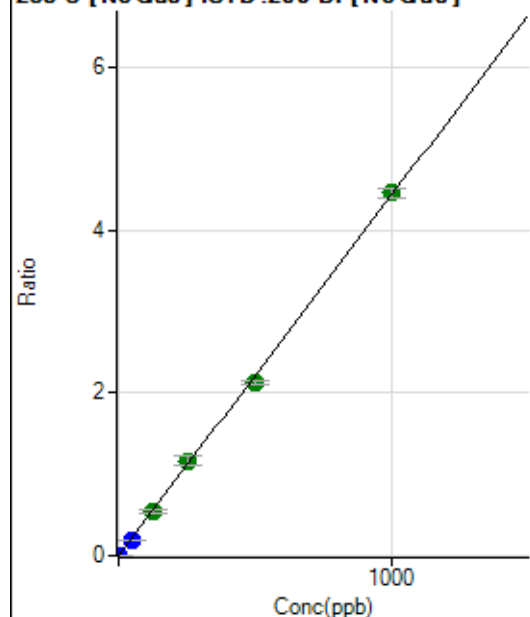
$$DL = 0.0005727$$

$$BEC = 0.02114$$

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	50.00	0.0000	P	7.7
2	☐	1.000	0.809	21386.99	0.0036	P	2.8
3	☐	50.000	45.041	1201716.69	0.1994	P	1.1
4	☐	125.000	123.072	3238950.51	0.5449	A	6.3
5	☐	250.000	262.487	6452859.35	1.1621	A	10.4
6	☐	500.000	481.249	12666997.59	2.1305	A	1.8
7	☐	1000.000	1006.743	24940110.74	4.4569	A	2.8
8	☐			6923.45	0.0014	P	45.7

$$y = 0.0044 * x + 8.5325E-006$$

$$R = 0.9996$$

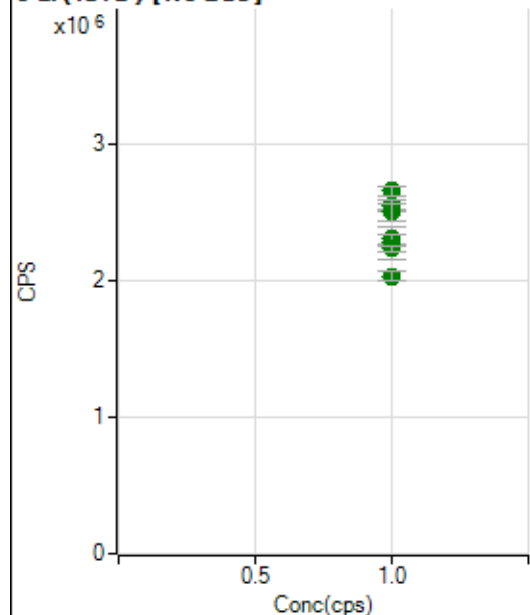
$$DL = 0.000447$$

$$BEC = 0.001927$$

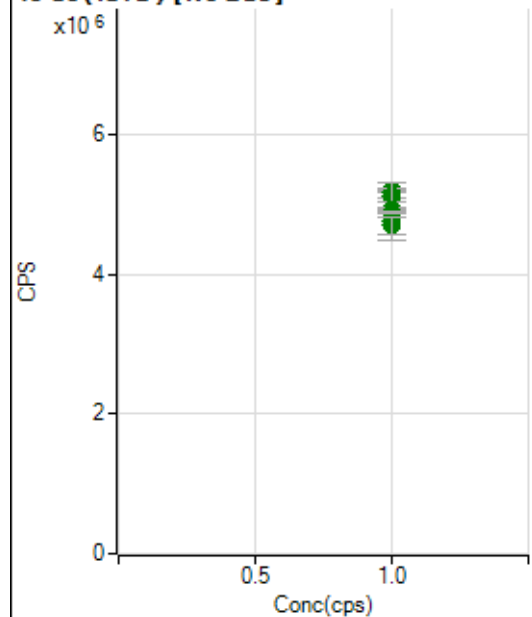
Weight: <None>

Min Conc: 0

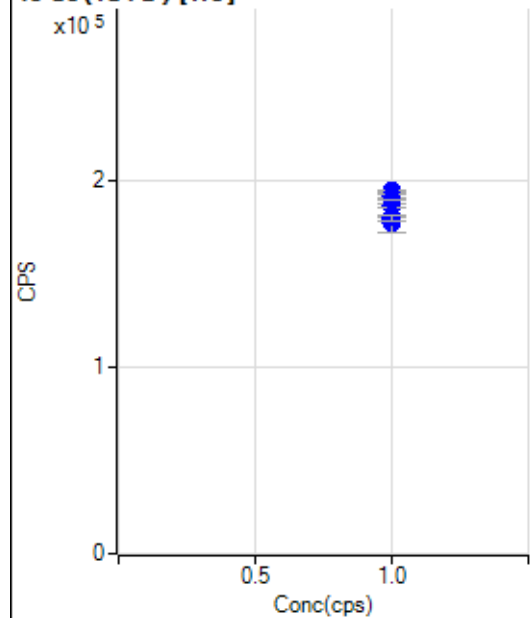
6 Li (ISTD) [No Gas]



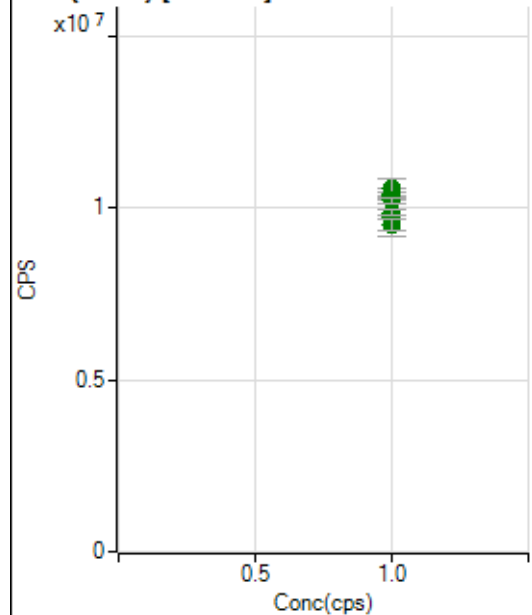
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		2554474.91		A	2.6
2	☐	1.000		2659185.08		A	2.9
3	☐	1.000		2548263.50		A	3.4
4	☐	1.000		2502484.98		A	4.8
5	☐	1.000		2278089.20		A	10.2
6	☐	1.000		2306360.41		A	2.8
7	☐	1.000		2238299.49		A	1.8
8	☐	1.000		2031946.62		A	3.5

45 Sc (ISTD) [No Gas]

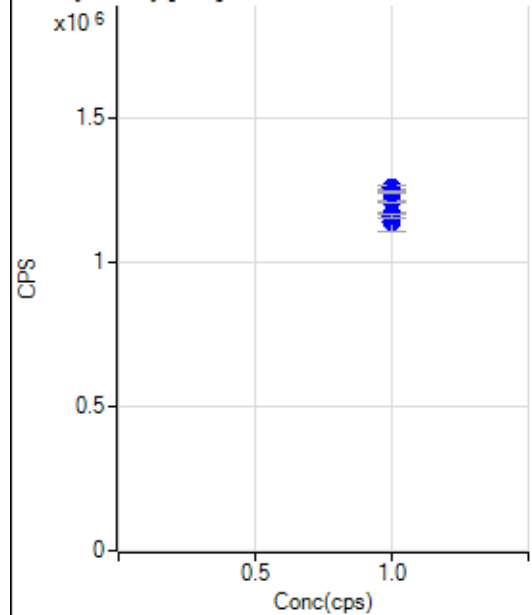
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5192155.31		A	0.7
2	☐	1.000		5190962.36		A	0.8
3	☐	1.000		5167870.52		A	2.7
4	☐	1.000		5130580.38		A	7.2
5	☐	1.000		4757317.85		A	11.2
6	☐	1.000		4936438.19		A	0.8
7	☐	1.000		4880636.21		A	0.7
8	☐	1.000		4692828.40		A	5.5

45 Sc (ISTD) [He]

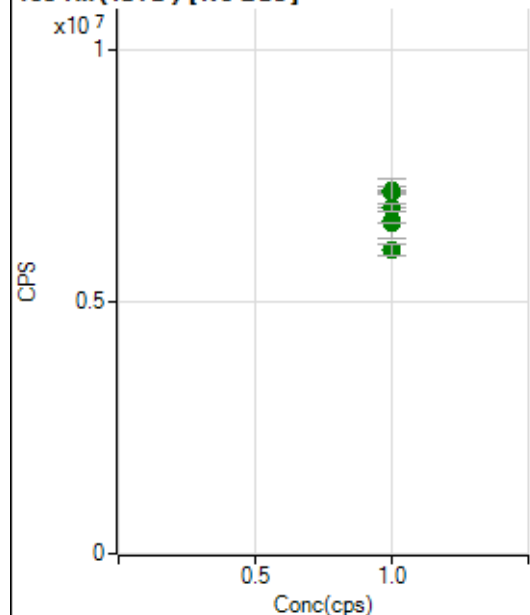
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		192859.28		P	0.5
2	☐	1.000		194199.57		P	0.3
3	☐	1.000		191360.17		P	1.1
4	☐	1.000		186554.20		P	0.9
5	☐	1.000		178740.96		P	1.3
6	☐	1.000		176538.50		P	4.7
7	☐	1.000		179913.05		P	1.9
8	☐	1.000		189261.89		P	0.1

89 Y (ISTD) [No Gas]

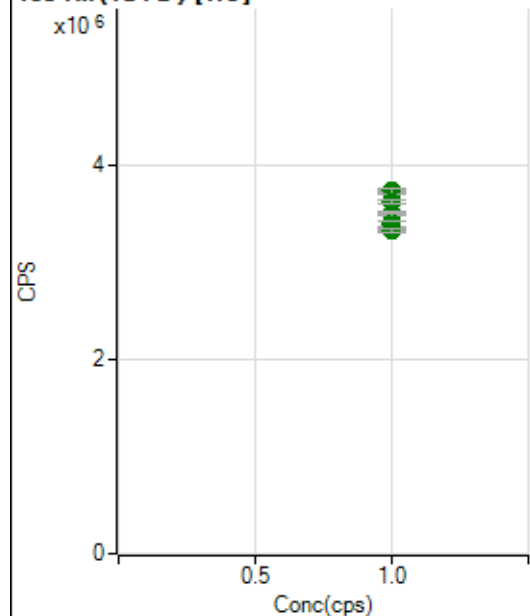
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10395495.54		A	0.7
2	☐	1.000		10341143.60		A	2.3
3	☐	1.000		10415960.89		A	2.5
4	☐	1.000		10541550.54		A	5.9
5	☐	1.000		9710362.15		A	10.8
6	☐	1.000		10200888.81		A	1.9
7	☐	1.000		9851241.73		A	1.4
8	☐	1.000		9515585.55		A	3.7

89 Y (ISTD) [He]

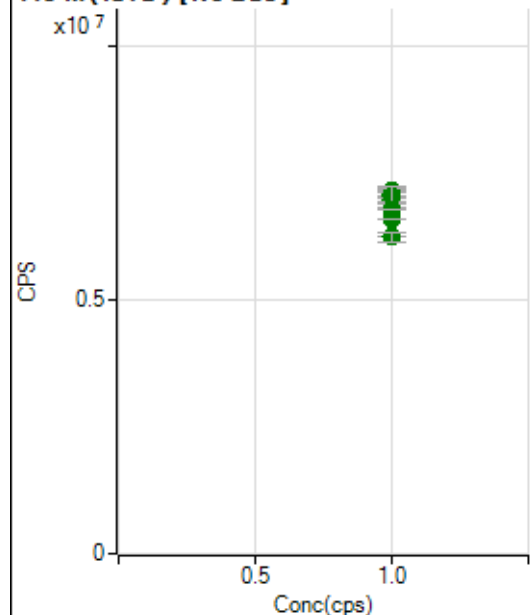
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1253972.25		P	0.4
2	☐	1.000		1256149.49		P	0.2
3	☐	1.000		1260170.34		P	1.2
4	☐	1.000		1213406.58		P	0.4
5	☐	1.000		1171719.82		P	0.9
6	☐	1.000		1139554.85		P	5.0
7	☐	1.000		1161852.02		P	1.6
8	☐	1.000		1243959.24		P	0.6

103 Rh (ISTD) [No Gas]

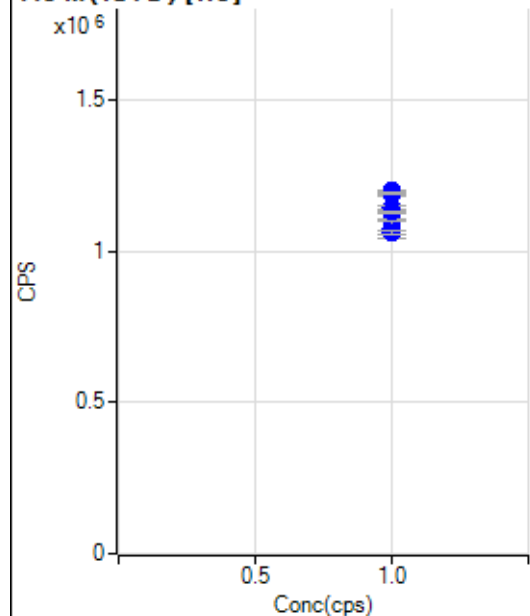
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7193116.63		A	0.2
2	☐	1.000		7169979.41		A	1.0
3	☐	1.000		7204946.00		A	2.0
4	☐	1.000		7163867.60		A	8.1
5	☐	1.000		6610338.86		A	10.4
6	☐	1.000		6867282.47		A	2.0
7	☐	1.000		6572267.12		A	0.1
8	☐	1.000		6043538.45		A	3.8

103 Rh (ISTD) [He]

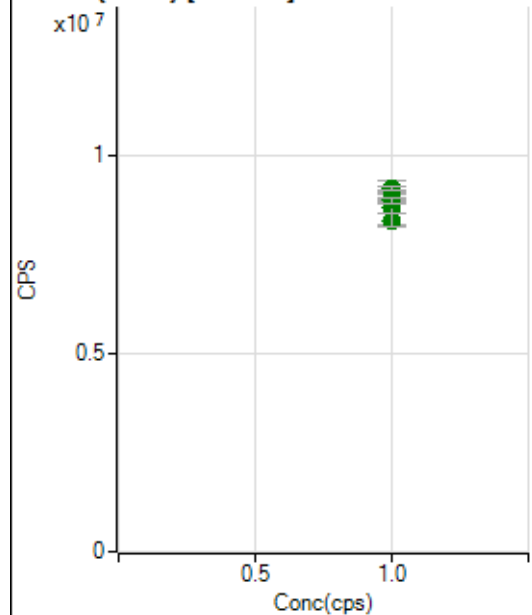
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3713739.28		A	0.5
2	☐	1.000		3733937.62		A	0.7
3	☐	1.000		3735740.33		A	1.4
4	☐	1.000		3627415.47		A	1.0
5	☐	1.000		3499329.95		A	0.9
6	☐	1.000		3413198.63		A	4.8
7	☐	1.000		3392767.07		A	2.1
8	☐	1.000		3324885.37		A	1.0

115 In (ISTD) [No Gas]

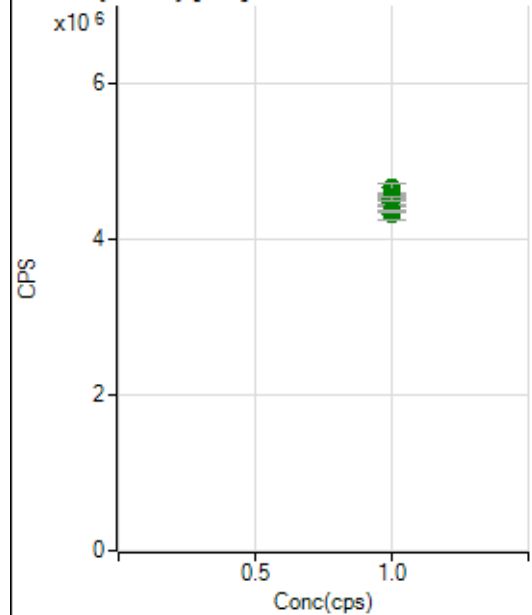
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6977319.42		A	1.4
2	☐	1.000		7146099.79		A	0.8
3	☐	1.000		7097972.73		A	2.6
4	☐	1.000		7028731.03		A	6.1
5	☐	1.000		6577710.27		A	9.5
6	☐	1.000		6784435.87		A	0.1
7	☐	1.000		6591347.00		A	0.2
8	☐	1.000		6245394.02		A	3.1

115 In (ISTD) [He]

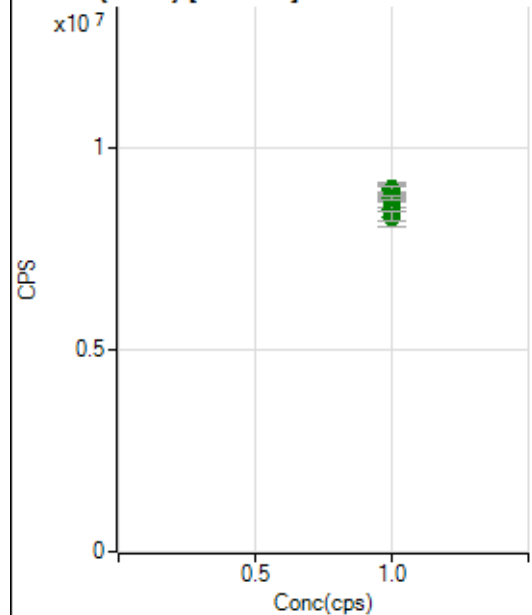
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1188427.42		P	0.8
2	☐	1.000		1198379.24		P	0.3
3	☐	1.000		1189059.45		P	0.6
4	☐	1.000		1144401.55		P	1.1
5	☐	1.000		1105674.76		P	0.1
6	☐	1.000		1070766.93		P	4.8
7	☐	1.000		1060790.74		P	1.2
8	☐	1.000		1128473.88		P	0.3

159 Tb (ISTD) [No Gas]

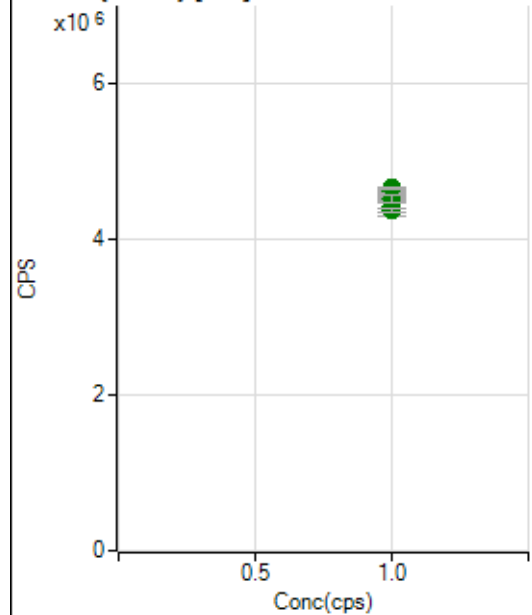
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8847223.27		A	0.6
2	☐	1.000		9086221.32		A	0.8
3	☐	1.000		9071594.59		A	1.2
4	☐	1.000		9124130.35		A	5.5
5	☐	1.000		8665324.52		A	9.5
6	☐	1.000		9148639.31		A	1.2
7	☐	1.000		8856344.04		A	1.6
8	☐	1.000		8345697.44		A	4.2

159 Tb (ISTD) [He]

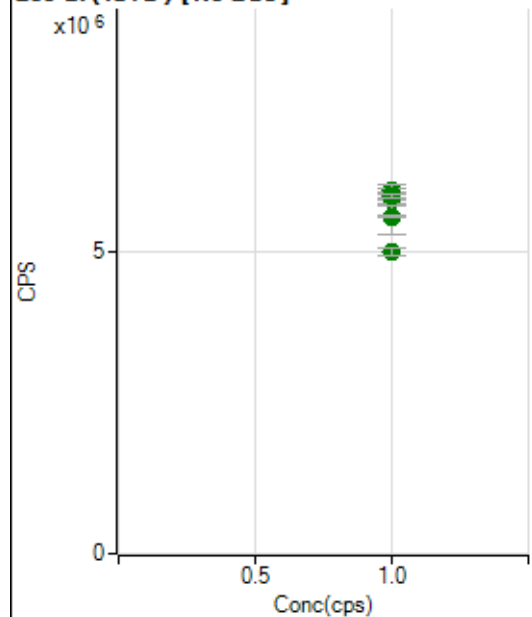
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4567268.58		A	1.5
2	☐	1.000		4661005.31		A	2.4
3	☐	1.000		4555358.30		A	1.0
4	☐	1.000		4533301.95		A	1.1
5	☐	1.000		4471877.26		A	0.6
6	☐	1.000		4331752.64		A	4.3
7	☐	1.000		4371345.91		A	0.6
8	☐	1.000		4526373.54		A	0.9

165 Ho (ISTD) [No Gas]

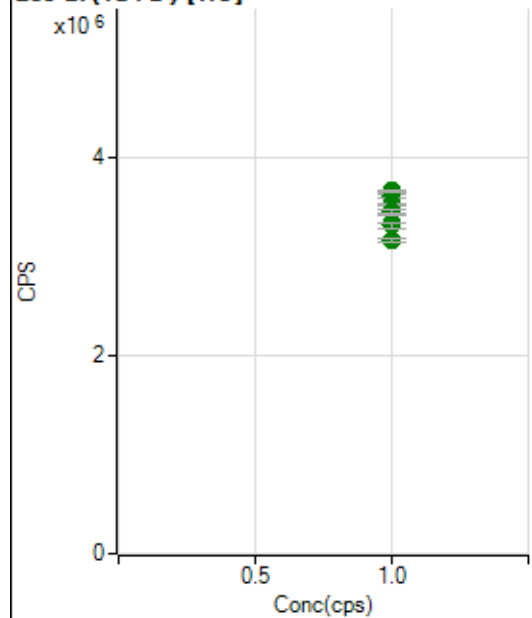
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8681305.70		A	0.8
2	☐	1.000		8736771.19		A	0.5
3	☐	1.000		8964896.25		A	2.2
4	☐	1.000		8814331.19		A	7.1
5	☐	1.000		8471999.60		A	10.1
6	☐	1.000		8920156.67		A	2.0
7	☐	1.000		8747037.93		A	1.3
8	☐	1.000		8281469.81		A	2.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4604910.45		A	0.4
2	☐	1.000		4612102.05		A	0.9
3	☐	1.000		4657653.06		A	0.7
4	☐	1.000		4494887.43		A	1.3
5	☐	1.000		4485984.03		A	0.5
6	☐	1.000		4425588.09		A	5.5
7	☐	1.000		4365499.90		A	1.4
8	☐	1.000		4516062.05		A	1.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5863285.33		A	1.2
2	☐	1.000		5956487.13		A	1.3
3	☐	1.000		6026808.59		A	1.1
4	☐	1.000		5958428.52		A	5.6
5	☐	1.000		5593276.69		A	10.5
6	☐	1.000		5944975.47		A	1.2
7	☐	1.000		5595100.75		A	0.7
8	☐	1.000		5009668.05		A	2.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3614904.22		A	0.9
2	☐	1.000		3653932.79		A	1.4
3	☐	1.000		3666304.91		A	0.3
4	☐	1.000		3521209.32		A	0.8
5	☐	1.000		3459657.38		A	0.8
6	☐	1.000		3351126.41		A	4.6
7	☐	1.000		3314988.91		A	1.9
8	☐	1.000		3164433.29		A	1.0

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8101223-MS.b
Acq. Date-Time 2023-10-12 08:20:34
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		9834	98342.59			2.006	5.000
24		87193	871931.05			2.826	5.000
25		11248	112482.29			2.008	5.000
26		13437	134365.68			1.927	5.000
59		94102	941016.67			1.701	5.000
113		9364	93644.80			1.716	5.000
115		118045	1180452.12			3.081	5.000
206		28596	285956.62			1.762	5.000
207		26125	261246.68			1.589	5.000
208		62287	622873.47			1.578	5.000
220		0	1.80			57.601	

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

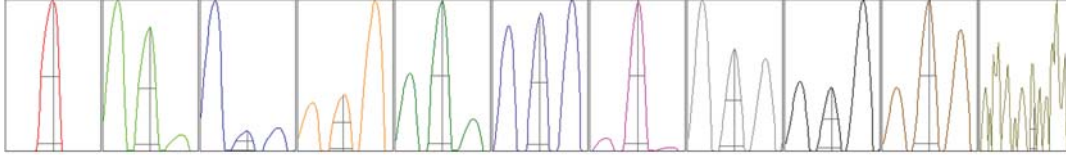
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	9980	9919	9499	9817	9955
24	90279	88053	83452	87174	87009
25	11519	11295	10892	11291	11245
26	13706	13551	13020	13390	13516
59	96660	93324	92635	93275	94615
113	9479	9458	9089	9359	9437
115	120226	120698	111959	117389	119955
206	28709	29011	27731	28648	28879
207	26162	26383	25434	26142	26504
208	62362	63285	60722	62152	62916

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	18135.60	9.05	8.90 - 9.10	
24	165830.06	24.00	23.90 - 24.10	
25	21589.30	25.00	24.90 - 25.10	
26	24961.37	25.95	25.90 - 26.10	
59	186169.15	59.00	58.90 - 59.10	
113	19471.59	113.00	112.90 - 113.10	
115	252015.33	115.05	114.90 - 115.10	
206	58871.97	206.00	205.90 - 206.10	
207	53116.72	207.00	206.90 - 207.10	
208	127014.90	208.00	207.90 - 208.10	
220	0.20	220.25	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.768	0.900	
24	0.56	0.774	0.900	
25	0.55	0.741	0.900	
26	0.56	0.737	0.900	
59	0.53	0.735	0.900	
113	0.49	0.688	0.900	
115	0.48	0.752	0.900	
206	0.49	0.771	0.900	
207	0.50	0.770	0.900	
208	0.50	0.794	0.900	
220	0.16	0.196		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.85 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.1 V	Deflect	14.0 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 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	120 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	-0.7 mm
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EM

Discriminator	4.5 mV	Analog HV	2303 V	Pulse HV	1628 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		22446	224461.53			1.890	
89		13984	139842.90			1.903	
205		26286	262859.96			2.118	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	22505	23161	22125	22205	22235
89	13976	14445	13852	13860	13789
205	26814	26967	25949	25888	25812

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.85 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.1 V	Deflect	4.0 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	-120 V	Cell Exit	-70 V		

Cell Parameters

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

QP Parameters

Mass Gain	124	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	-0.7 mm
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EM

Discriminator	4.5 mV	Analog HV	2303 V	Pulse HV	1628 V
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