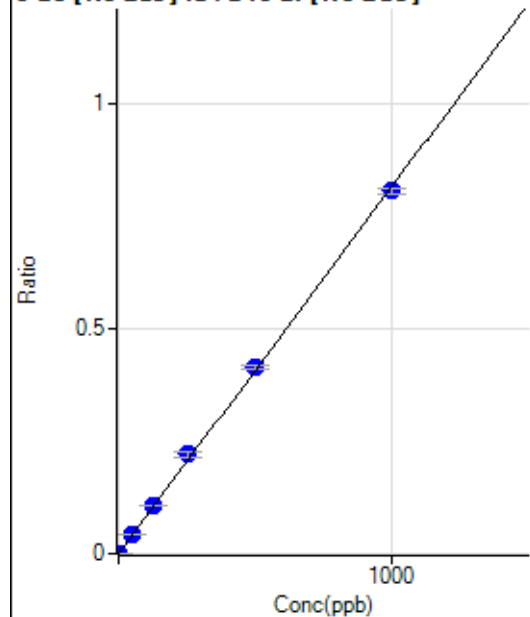


Calibration for 004CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7061924-MS.b\
 Analysis File: P7061924-MS.batch.bin
 DA Date-Time: 2024-06-19 18:40:44
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-06-19 13:48:47
2	005CALS.d	S02	2024-06-19 13:52:06
3	006CALS.d	S03	2024-06-19 13:55:27
4	007CALS.d	S04	2024-06-19 13:58:42
5	008CALS.d	S05	2024-06-19 14:01:51
6	009CALS.d	S06	2024-06-19 14:04:52
7	010CALS.d	S07	2024-06-19 14:07:48
8	011CALS.d	S08	2024-06-19 14:10:41

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	42.22	0.0001	P	16.0
2	☐	1.000	1.054	712.25	0.0009	P	1.9
3	☐	50.000	54.084	34437.02	0.0440	P	1.0
4	☐	125.000	131.307	82111.80	0.1068	P	1.4
5	☐	250.000	271.074	157895.33	0.2204	P	5.2
6	☐	500.000	508.013	301842.94	0.4130	P	1.9
7	☐	1000.000	989.732	581382.32	0.8046	P	1.4
8	☐			777.81	0.0011	P	17.5

$$y = 8.1291\text{E-}004 * x + 5.4051\text{E-}005$$

$$R = 0.9997$$

$$DL = 0.03194$$

$$BEC = 0.06649$$

Weight: <None>

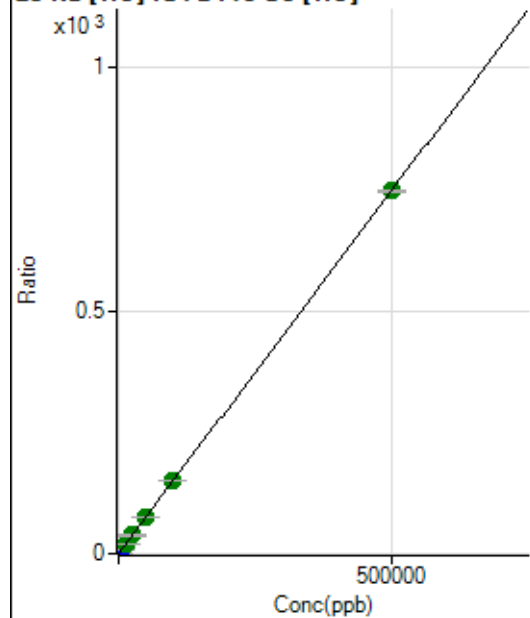
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5927.85	0.0463	P	2.1
2	☐	500.000	496.340	100451.37	0.7872	P	0.7
3	☐	5000.000	5239.253	982125.85	7.8668	P	1.4
4	☐	12500.000	12539.334	2281116.95	18.7635	A	0.8
5	☐	25000.000	25173.888	4398737.92	37.6228	A	0.9
6	☐	50000.000	50352.798	8591684.38	75.2068	A	1.9
7	☐	100000.00	100315.31	16941252.66	149.7848	A	0.5
8	☐	500000.00	499889.59	86577498.71	746.2208	A	0.8

$$y = 0.0015 * x + 0.0463$$

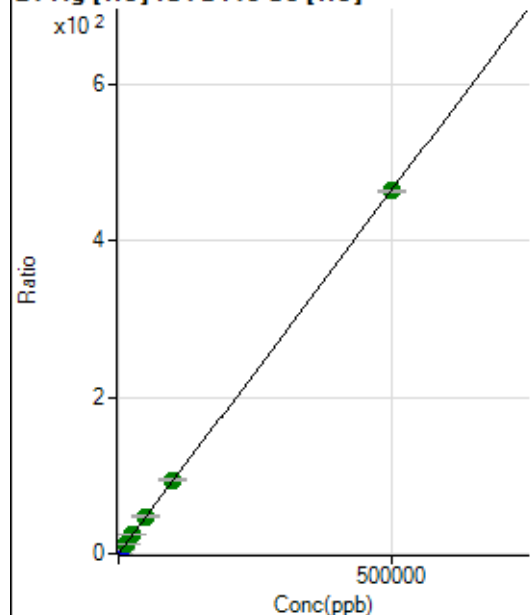
$$R = 1.0000$$

$$DL = 1.948$$

$$BEC = 31.01$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	737.80	0.0058	P	1.8
2	☐	500.000	503.783	60494.90	0.4741	P	0.7
3	☐	5000.000	5387.161	625898.24	5.0134	P	1.1
4	☐	12500.000	12894.836	1457904.86	11.9921	A	1.3
5	☐	25000.000	26043.457	2831073.53	24.2144	A	1.7
6	☐	50000.000	51490.545	5469355.13	47.8687	A	0.8
7	☐	100000.00	101790.57	10702394.28	94.6249	A	0.4
8	☐	500000.00	499426.91	53862721.97	464.2466	A	0.4

$$y = 9.2955\text{E-}004 * x + 0.0058$$

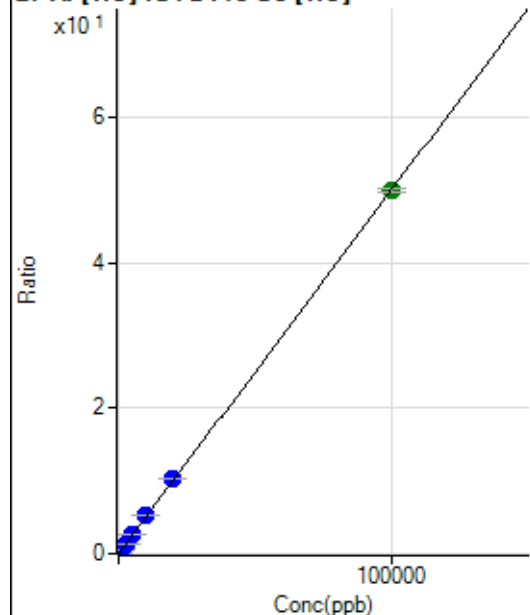
$$R = 1.0000$$

$$DL = 0.3264$$

$$BEC = 6.197$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	128.89	0.0010	P	6.5
2	☐	20.000	18.146	1284.51	0.0101	P	6.4
3	☐	1000.000	1078.280	67342.22	0.5394	P	1.3
4	☐	2500.000	2632.672	159935.24	1.3155	P	0.9
5	☐	5000.000	5290.503	308967.82	2.6426	P	0.7
6	☐	10000.000	10483.450	598192.74	5.2356	P	0.9
7	☐	20000.000	20825.255	1176203.16	10.3994	P	0.3
8	☐	100000.00	99767.980	5779819.57	49.8167	A	0.9

$$y = 4.9932\text{E-}004 * x + 0.0010$$

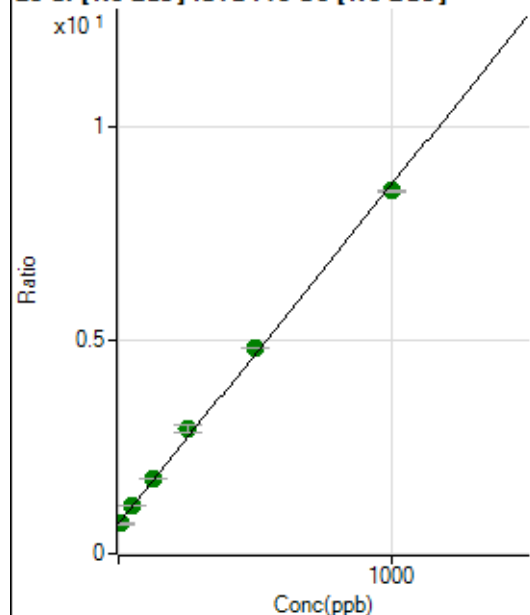
$$R = 1.0000$$

$$DL = 0.3938$$

$$BEC = 2.015$$

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	1339659.38	0.7025	A	2.3
2	☐	10.000	-0.509	1331046.40	0.6985	A	1.4
3	☐	50.000	53.935	2172080.50	1.1299	A	2.2
4	☐	125.000	132.796	3266068.91	1.7548	A	1.6
5	☐	250.000	282.181	5046166.38	2.9386	A	6.3
6	☐	500.000	518.682	8353164.46	4.8127	A	0.7
7	☐	1000.000	981.548	14541065.48	8.4807	A	0.8
8	☐			1924611.95	1.1111	A	2.0

$$y = 0.0079 * x + 0.7025$$

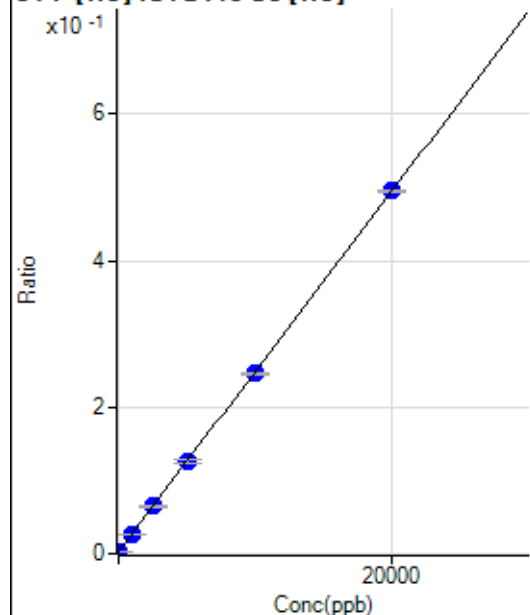
$$R = 0.9989$$

$$DL = 6.158$$

$$BEC = 88.65$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-3.914	333.34	0.0026	P	10.8
2	☐	0.000	3.914	356.68	0.0028	P	9.7
3	☐	1000.000	985.643	3360.40	0.0269	P	3.1
4	☐	2500.000	2507.893	7819.85	0.0643	P	1.9
5	☐	5000.000	5056.123	14840.65	0.1269	P	3.7
6	☐	10000.000	9902.219	28111.42	0.2460	P	0.7
7	☐	20000.000	20034.591	55983.01	0.4950	P	0.7
8	☐			324.45	0.0028	P	10.3

$$y = 2.4571E-005 * x + 0.0027$$

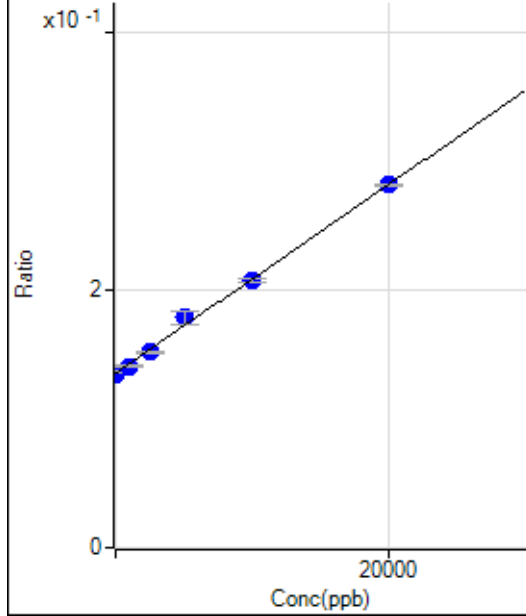
$$R = 1.0000$$

$$DL = 33.6$$

$$BEC = 109.8$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-93.305	257334.32	0.1349	P	0.9
2	☐	0.000	93.305	259721.79	0.1363	P	1.4
3	☐	1000.000	751.984	271315.53	0.1411	P	0.8
4	☐	2500.000	2212.776	282595.84	0.1518	P	0.8
5	☐	5000.000	5878.421	306827.59	0.1787	P	6.3
6	☐	10000.000	9748.434	359291.67	0.2070	P	1.4
7	☐	20000.000	19954.482	483160.57	0.2818	P	0.6
8	☐			244359.19	0.1411	P	1.0

$$y = 7.3251\text{E-}006 * x + 0.1356$$

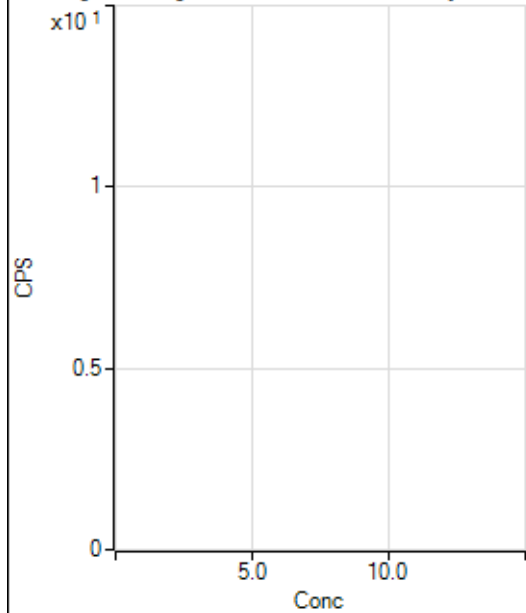
$$R = 0.9984$$

$$DL = 646.1$$

$$BEC = 1.851\text{E}+04$$

Weight: <None>

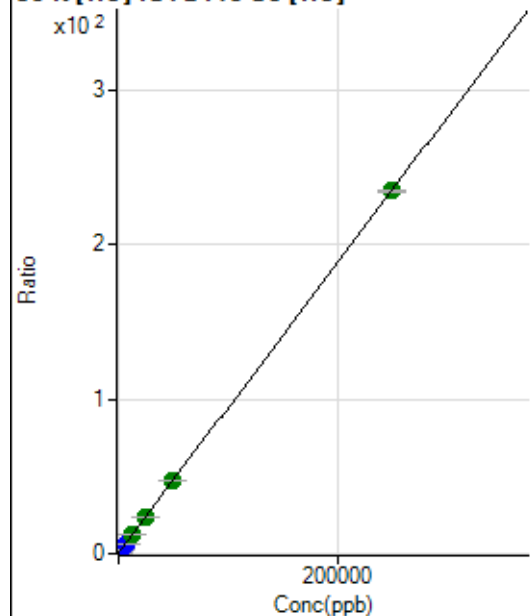
Min Conc: 0

35 Cl [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	59712.14	0.4662	P	1.5
2	☐	500.000	500.781	119310.73	0.9349	P	0.7
3	☐	2500.000	2703.087	374062.09	2.9962	P	0.5
4	☐	6250.000	6682.143	817003.33	6.7203	P	0.8
5	☐	12500.000	12691.187	1443273.57	12.3445	A	1.5
6	☐	25000.000	25039.546	2730600.51	23.9018	A	2.1
7	☐	50000.000	49919.421	5337114.02	47.1880	A	0.3
8	☐	250000.00	249989.76	27200518.76	234.4426	A	0.7

$$y = 9.3594\text{E-}004 * x + 0.4662$$

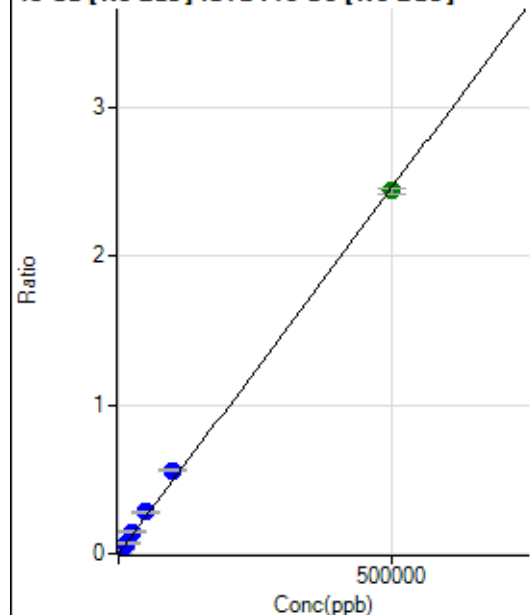
$$R = 1.0000$$

$$DL = 21.73$$

$$BEC = 498.1$$

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	207.78	0.0001	P	21.9
2	☐	500.000	505.868	4943.07	0.0026	P	2.8
3	☐	5000.000	5749.089	54500.69	0.0284	P	2.0
4	☐	12500.000	14342.590	131342.06	0.0706	P	1.6
5	☐	25000.000	29896.115	252407.38	0.1470	P	6.1
6	☐	50000.000	56967.427	485818.11	0.2800	P	2.6
7	☐	100000.00	113708.40	957973.54	0.5587	P	1.4
8	☐	500000.00	496263.20	4222983.44	2.4381	A	1.2

$$y = 4.9127\text{E-}006 * x + 1.0897\text{E-}004$$

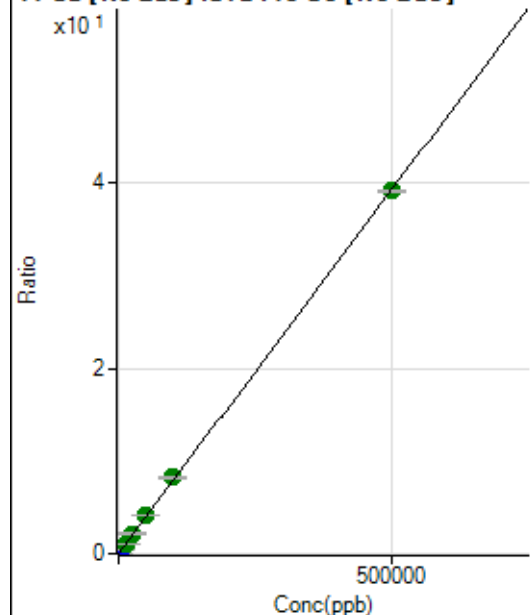
$$R = 0.9995$$

$$DL = 14.58$$

$$BEC = 22.18$$

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	29206.02	0.0153	P	2.2
2	☐	500.000	504.933	104657.71	0.0549	P	0.5
3	☐	5000.000	5566.291	868679.42	0.4519	P	1.8
4	☐	12500.000	13160.024	1949614.10	1.0475	A	1.4
5	☐	25000.000	27391.106	3714677.44	2.1637	A	6.8
6	☐	50000.000	52244.664	7137550.59	4.1130	A	1.9
7	☐	100000.00	104327.42	14055316.87	8.1980	A	2.2
8	☐	500000.00	498768.32	67783081.21	39.1349	A	0.7

$$y = 7.8432\text{E-}005 * x + 0.0153$$

$$R = 1.0000$$

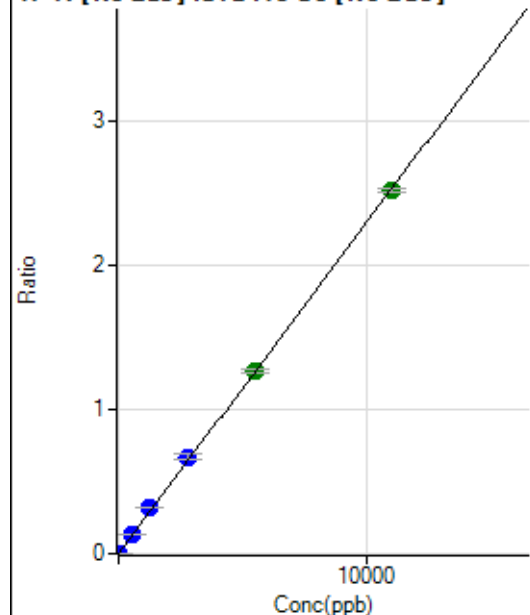
$$DL = 12.83$$

$$BEC = 195.3$$

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	93.33	0.0000	P	15.3
2	☐	5.000	4.953	2262.41	0.0012	P	7.2
3	☐	550.000	558.106	246788.12	0.1284	P	1.7
4	☐	1250.000	1394.119	596717.02	0.3206	P	1.6
5	☐	2750.000	2920.907	1153401.92	0.6717	P	6.3
6	☐	5500.000	5490.405	2191118.96	1.2625	A	2.3
7	☐	11000.000	10945.288	4315275.21	2.5168	A	1.1
8	☐			1525.65	0.0009	P	3.5

$$y = 2.2994\text{E-}004 * x + 4.8927\text{E-}005$$

$$R = 0.9998$$

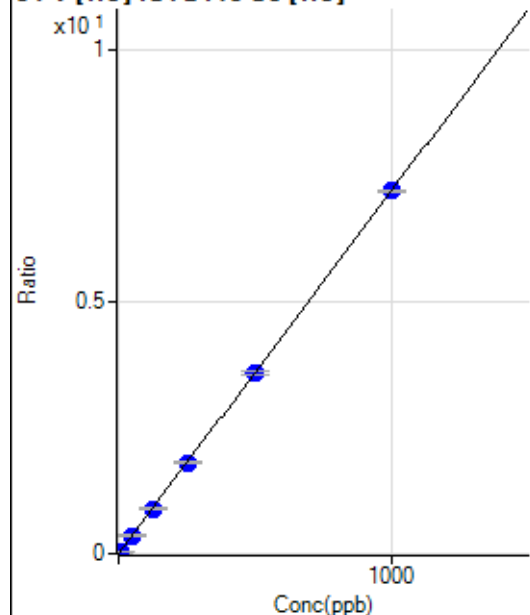
$$DL = 0.09793$$

$$BEC = 0.2128$$

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	18.89	0.0001	P	10.1
2	☐	5.000	4.922	4539.61	0.0356	P	2.2
3	☐	50.000	50.004	44952.28	0.3601	P	1.9
4	☐	125.000	124.290	108776.07	0.8948	P	1.2
5	☐	250.000	251.106	211332.58	1.8076	P	1.0
6	☐	500.000	499.978	411145.06	3.5989	P	1.8
7	☐	1000.000	999.823	813966.22	7.1966	P	0.2
8	☐			471.13	0.0041	P	3.0

$$y = 0.0072 * x + 1.4748\text{E-}004$$

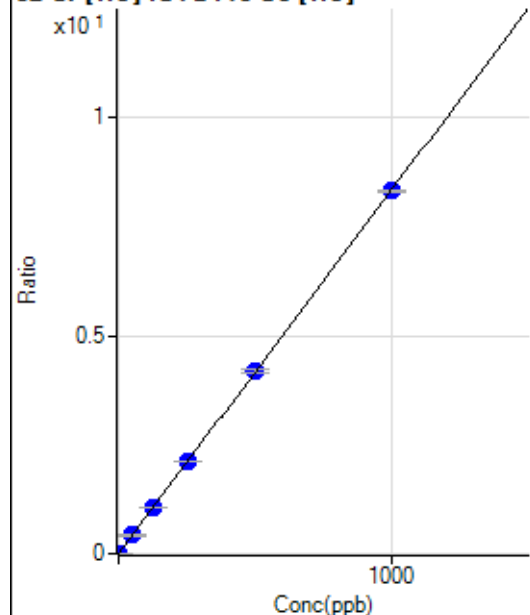
$$R = 1.0000$$

$$DL = 0.006212$$

$$BEC = 0.02049$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	180.00	0.0014	P	16.4
2	☐	2.000	1.954	2256.86	0.0177	P	6.1
3	☐	50.000	50.544	52759.63	0.4226	P	2.1
4	☐	125.000	126.052	127879.62	1.0519	P	0.6
5	☐	250.000	252.379	246063.40	2.1046	P	0.6
6	☐	500.000	502.683	478768.49	4.1905	P	1.4
7	☐	1000.000	997.905	940727.69	8.3175	P	0.2
8	☐			8926.05	0.0769	P	3.3

$$y = 0.0083 * x + 0.0014$$

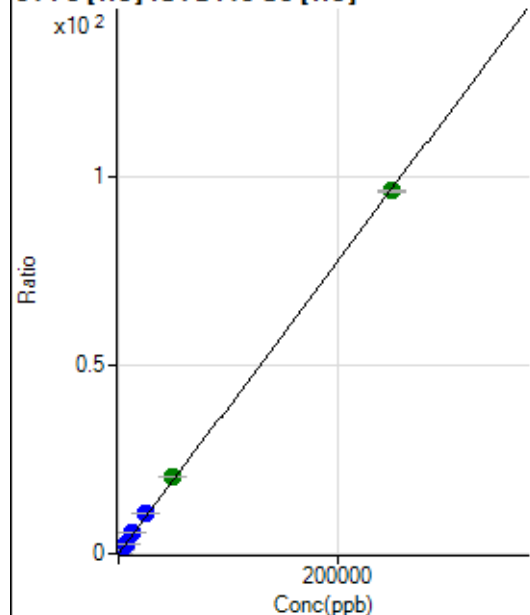
$$R = 1.0000$$

$$DL = 0.08302$$

$$BEC = 0.1686$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	858.92	0.0067	P	5.2
2	☐	50.000	55.227	3587.13	0.0281	P	0.4
3	☐	2500.000	2866.296	139517.60	1.1175	P	1.0
4	☐	6250.000	7086.222	334691.60	2.7529	P	0.2
5	☐	12500.000	14186.858	643593.56	5.5047	P	0.6
6	☐	25000.000	28097.309	1244812.44	10.8956	P	1.4
7	☐	50000.000	53049.341	2326016.95	20.5656	A	0.7
8	☐	250000.00	248971.48	11195393.44	96.4940	A	0.4

$$y = 3.8754E-004 * x + 0.0067$$

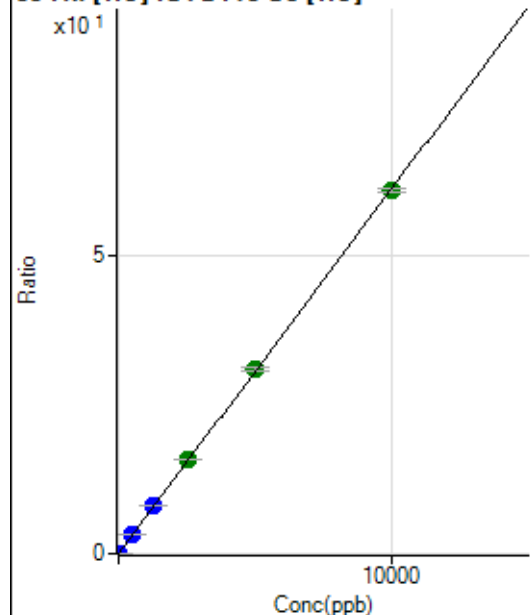
$$R = 0.9999$$

$$DL = 2.722$$

$$BEC = 17.3$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	133.33	0.0010	P	26.5
2	☐	1.000	0.936	863.37	0.0068	P	4.1
3	☐	500.000	521.269	397919.14	3.1873	P	1.4
4	☐	1250.000	1296.512	963616.47	7.9260	P	0.3
5	☐	2500.000	2573.280	1839135.34	15.7303	A	0.5
6	☐	5000.000	5053.021	3528528.94	30.8879	A	2.2
7	☐	10000.000	9948.292	6877777.47	60.8104	A	0.9
8	☐			4986.43	0.0430	P	3.9

$$y = 0.0061 * x + 0.0010$$

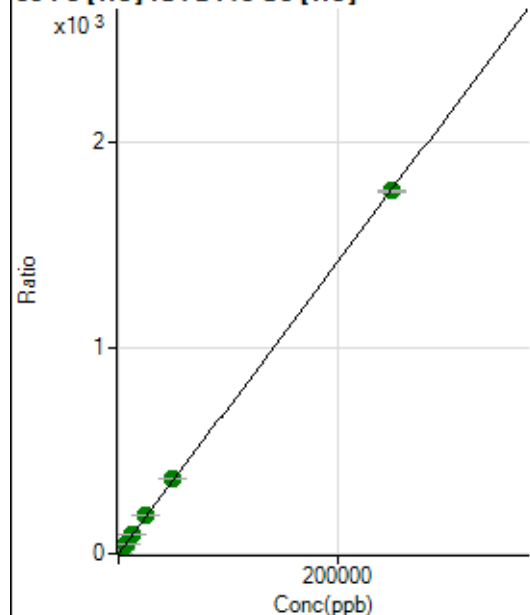
$$R = 0.9999$$

$$DL = 0.1354$$

$$BEC = 0.1703$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4901.96	0.0383	P	1.0
2	☐	50.000	53.797	53355.32	0.4181	P	0.3
3	☐	2500.000	2658.516	2348177.17	18.8084	A	0.6
4	☐	6250.000	6592.182	5663505.47	46.5816	A	0.6
5	☐	12500.000	13245.744	10938503.73	93.5582	A	0.6
6	☐	25000.000	26200.309	21137192.74	185.0223	A	2.0
7	☐	50000.000	51943.040	41483759.94	366.7756	A	0.6
8	☐	250000.00	249443.93	204337614.7	1,761.206	A	0.3

$$y = 0.0071 * x + 0.0383$$

$$R = 1.0000$$

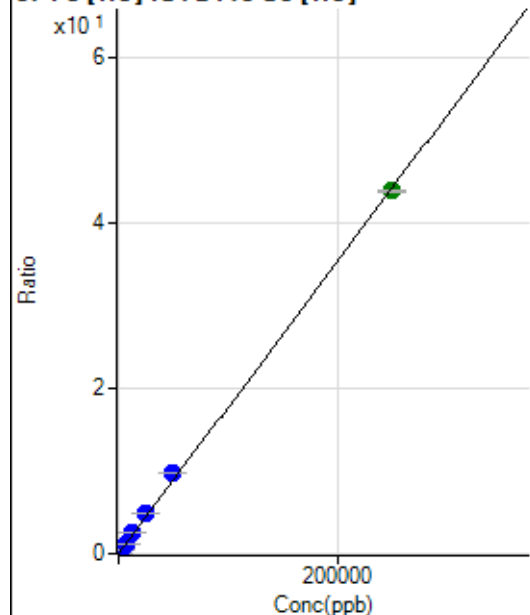
$$DL = 0.1551$$

$$BEC = 5.421$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	221.11	0.0017	P	12.9
2	☐	50.000	53.718	1431.20	0.0112	P	4.4
3	☐	2500.000	2807.711	62134.47	0.4977	P	1.0
4	☐	6250.000	6976.232	150030.86	1.2340	P	0.8
5	☐	12500.000	13982.156	288969.82	2.4716	P	0.7
6	☐	25000.000	27720.131	559652.58	4.8983	P	1.0
7	☐	50000.000	54821.958	1095480.47	9.6857	P	0.1
8	☐	250000.00	248668.25	5096535.93	43.9274	A	0.9

$$y = 1.7664\text{E-}004 * x + 0.0017$$

R = 0.9998

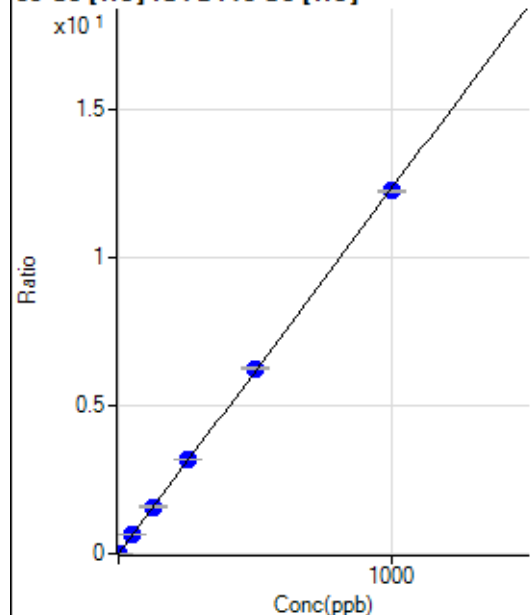
DL = 3.791

BEC = 9.773

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.33	0.0004	P	27.2
2	☐	1.000	1.068	1735.67	0.0136	P	5.6
3	☐	50.000	52.492	80947.86	0.6484	P	2.0
4	☐	125.000	128.746	193268.25	1.5897	P	0.5
5	☐	250.000	256.865	370774.31	3.1713	P	0.5
6	☐	500.000	507.488	715792.29	6.2651	P	1.2
7	☐	1000.000	993.947	1387791.73	12.2701	P	0.2
8	☐			4133.94	0.0356	P	3.6

$$y = 0.0123 * x + 4.1640\text{E-}004$$

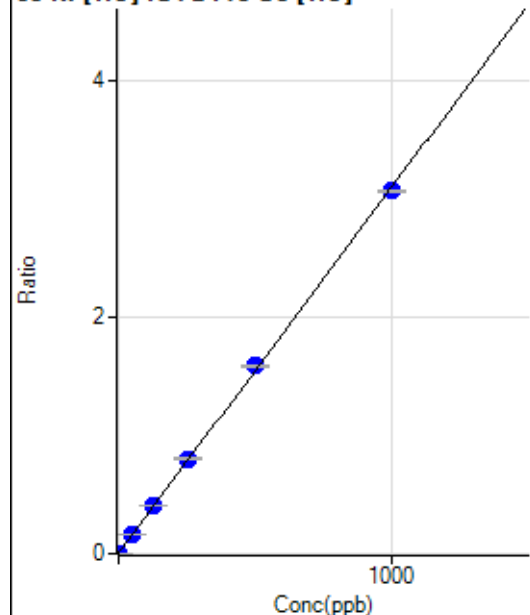
R = 0.9999

DL = 0.02753

BEC = 0.03373

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	343.34	0.0027	P	6.8
2	☐	1.000	1.023	746.69	0.0059	P	2.7
3	☐	50.000	53.066	20865.72	0.1671	P	0.9
4	☐	125.000	130.862	49630.70	0.4082	P	0.2
5	☐	250.000	259.069	94179.96	0.8055	P	1.0
6	☐	500.000	512.162	181635.33	1.5899	P	1.6
7	☐	1000.000	990.766	347571.53	3.0731	P	0.2
8	☐			3205.93	0.0276	P	2.0

$$y = 0.0031 * x + 0.0027$$

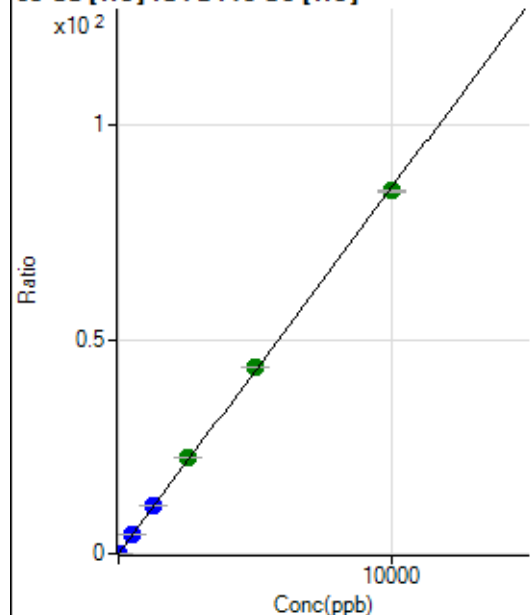
$$R = 0.9998$$

$$DL = 0.1755$$

$$BEC = 0.865$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	621.07	0.0048	P	3.7
2	☐	2.000	1.995	2792.11	0.0219	P	2.3
3	☐	500.000	534.228	570106.30	4.5665	P	1.1
4	☐	1250.000	1313.199	1363809.28	11.2180	P	0.6
5	☐	2500.000	2616.923	2613103.72	22.3502	A	0.6
6	☐	5000.000	5097.057	4973643.99	43.5276	A	0.4
7	☐	10000.000	9912.629	9573850.31	84.6468	A	0.2
8	☐			4798.79	0.0414	P	5.1

$$y = 0.0085 * x + 0.0048$$

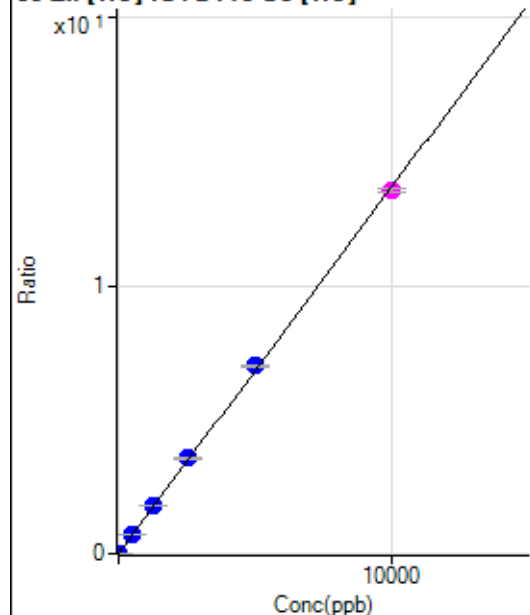
$$R = 0.9998$$

$$DL = 0.06225$$

$$BEC = 0.5679$$

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	217.78	0.0017	P	18.9
2	☐	5.000	4.815	1056.71	0.0083	P	8.0
3	☐	500.000	528.697	90414.64	0.7242	P	1.6
4	☐	1250.000	1303.094	216713.62	1.7825	P	0.4
5	☐	2500.000	2597.249	415186.12	3.5511	P	0.8
6	☐	5000.000	5131.976	801478.58	7.0151	P	1.3
7	☐	10000.000	9901.628	1530670.71	13.5334	M	1.0
8	☐			795.58	0.0069	P	9.9

$$y = 0.0014 * x + 0.0017$$

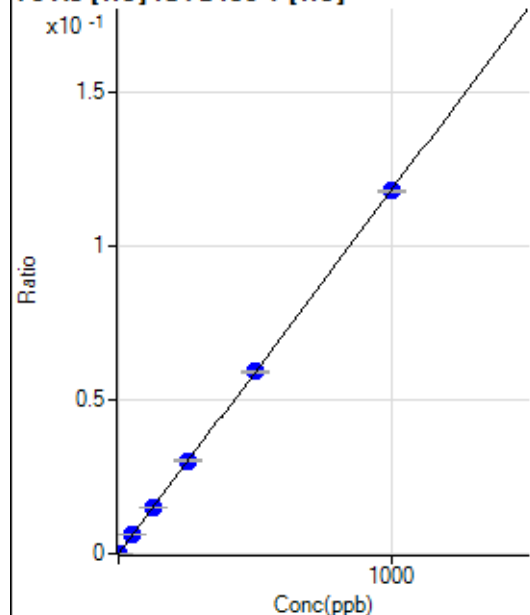
$$R = 0.9998$$

$$DL = 0.7073$$

$$BEC = 1.244$$

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	0.00	0.0000	P	
2	☐	1.000	0.946	108.89	0.0001	P	38.1
3	☐	50.000	51.515	5802.30	0.0061	P	1.7
4	☐	125.000	127.836	14005.61	0.0151	P	0.9
5	☐	250.000	255.418	27104.73	0.0302	P	1.9
6	☐	500.000	500.458	52303.94	0.0592	P	1.0
7	☐	1000.000	997.986	103164.07	0.1181	P	0.4
8	☐			96.67	0.0001	P	25.7

$$y = 1.1838E-004 * x + 0.0000E+000$$

$$R = 1.0000$$

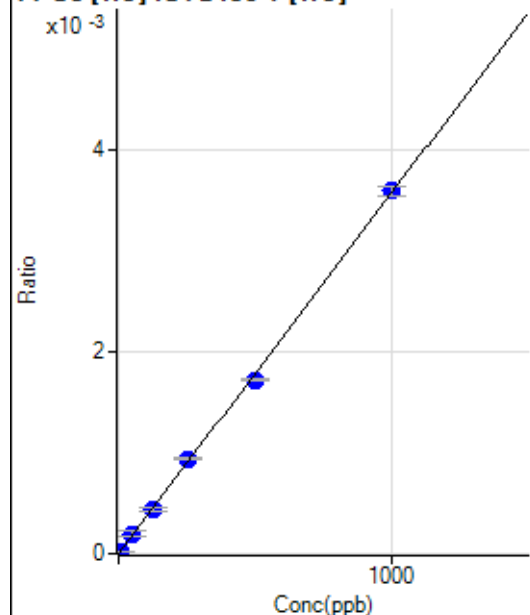
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.155	14.44	0.0000	P	35.4
3	☐	50.000	54.622	185.56	0.0002	P	25.2
4	☐	125.000	121.857	403.35	0.0004	P	6.5
5	☐	250.000	261.679	838.92	0.0009	P	2.3
6	☐	500.000	482.538	1523.43	0.0017	P	1.6
7	☐	1000.000	1005.977	3141.48	0.0036	P	2.8
8	☐			1.11	0.0000	P	173.

$$y = 3.5762\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9997$$

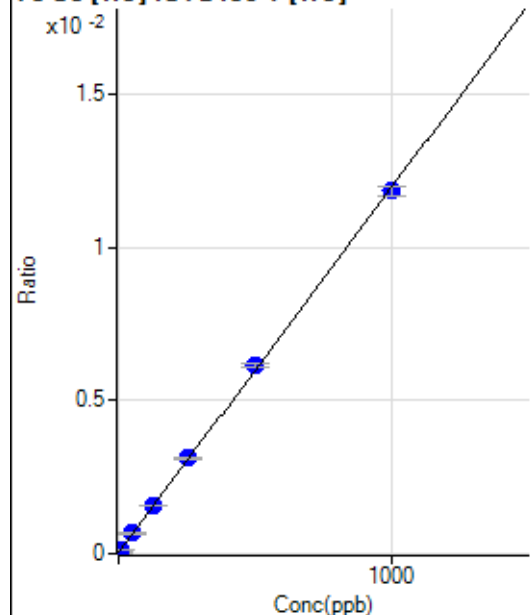
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	32.22	0.0000	P	21.6
2	☐	5.000	7.477	118.89	0.0001	P	26.2
3	☐	50.000	54.409	648.91	0.0007	P	6.8
4	☐	125.000	129.499	1460.09	0.0016	P	0.7
5	☐	250.000	258.297	2791.40	0.0031	P	2.3
6	☐	500.000	513.009	5431.04	0.0062	P	2.0
7	☐	1000.000	990.626	10345.91	0.0118	P	2.7
8	☐			45.55	0.0001	P	23.9

$$y = 1.1927\text{E-}005 * x + 3.3125\text{E-}005$$

$$R = 0.9998$$

$$DL = 1.804$$

$$BEC = 2.777$$

Weight: <None>

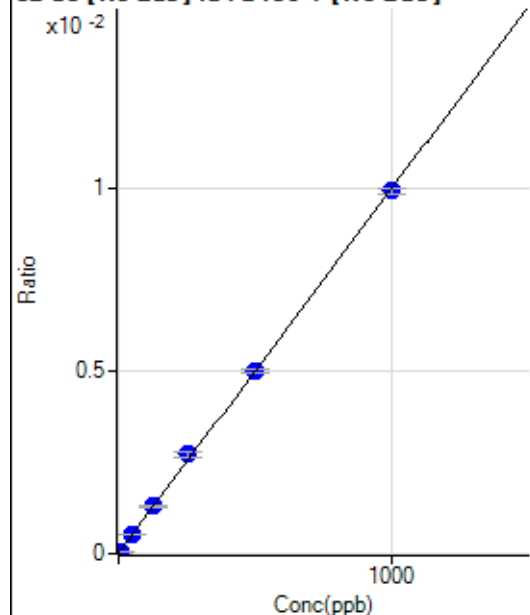
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17081.09		P	0.6
2	☐			17274.64		P	0.6
3	☐			17130.04		P	2.0
4	☐			16490.39		P	2.6
5	☐			15592.78		P	1.4
6	☐			15236.86		P	3.0
7	☐			15326.96		P	3.7
8	☐			15782.99		P	1.2

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.11		P	12.4
2	☐			28.89		P	6.7
3	☐			34.44		P	22.3
4	☐			28.89		P	6.7
5	☐			26.67		P	21.7
6	☐			42.22		P	31.9
7	☐			38.89		P	51.7
8	☐			31.11		P	22.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	87.53	0.0000	P	16.6
2	☐	5.000	4.996	321.57	0.0001	P	4.6
3	☐	50.000	52.086	2524.43	0.0005	P	1.0
4	☐	125.000	128.667	5940.56	0.0013	P	2.0
5	☐	250.000	271.257	11534.56	0.0027	P	5.5
6	☐	500.000	499.989	21873.47	0.0050	P	1.5
7	☐	1000.000	994.129	42724.95	0.0099	P	1.3
8	☐			126.95	0.0000	P	12.4

$$y = 9.9622E-006 * x + 1.8757E-005$$

$$R = 0.9997$$

$$DL = 0.9369$$

$$BEC = 1.883$$

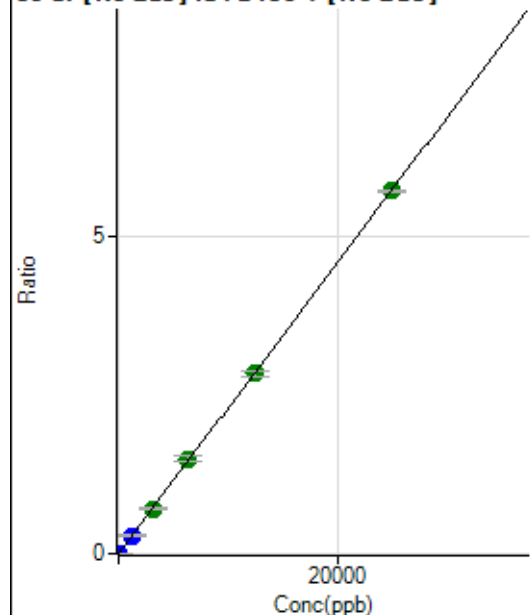
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			43.33		P	7.7
2	☐			53.33		P	21.7
3	☐			51.11		P	18.8
4	☐			46.67		P	31.1
5	☐			58.89		P	36.4
6	☐			60.00		P	28.9
7	☐			82.22		P	10.2
8	☐			50.00		P	11.5

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	78.89	0.0000	P	8.8
2	☐	1.000	0.941	1092.27	0.0002	P	4.6
3	☐	1250.000	1253.379	1350385.97	0.2876	P	1.0
4	☐	3125.000	3097.353	3246197.31	0.7107	A	1.2
5	☐	6250.000	6527.614	6348258.17	1.4978	A	5.9
6	☐	12500.000	12404.508	12450572.59	2.8462	A	3.0
7	☐	25000.000	24981.629	24681437.13	5.7320	A	0.9
8	☐			7963.33	0.0019	P	1.5

$$y = 2.2945\text{E-}004 * x + 1.6908\text{E-}005$$

$$R = 0.9999$$

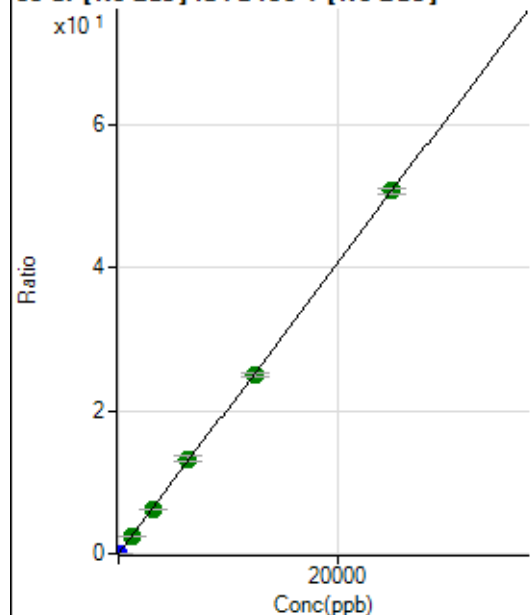
$$DL = 0.0194$$

$$BEC = 0.07369$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	118.89	0.0000	P	29.1
2	☐	1.000	0.978	9418.65	0.0020	P	2.8
3	☐	1250.000	1250.789	11897517.46	2.5339	A	1.2
4	☐	3125.000	3084.068	28536634.30	6.2479	A	1.8
5	☐	6250.000	6556.879	56292856.38	13.2833	A	6.1
6	☐	12500.000	12290.869	108928666.1	24.8996	A	2.3
7	☐	25000.000	25032.923	218363276.7	50.7132	A	1.6
8	☐			67873.29	0.0162	P	1.0

$$y = 0.0020 * x + 2.5494\text{E-}005$$

$$R = 0.9999$$

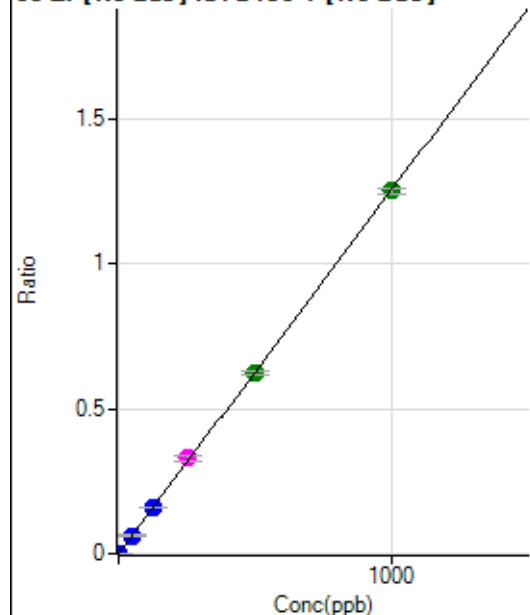
$$DL = 0.01099$$

$$BEC = 0.01258$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	300.01	0.0001	P	6.9
2	☐	1.000	0.904	5625.58	0.0012	P	0.2
3	☐	50.000	50.068	295406.49	0.0629	P	1.1
4	☐	125.000	125.398	719313.48	0.1575	P	0.9
5	☐	250.000	263.151	1400321.66	0.3304	M	5.9
6	☐	500.000	498.163	2736018.12	0.6254	A	2.2
7	☐	1000.000	997.578	5392329.29	1.2523	A	1.9
8	☐			3644.93	0.0009	P	5.0

$$y = 0.0013 * x + 6.4308E-005$$

$$R = 0.9999$$

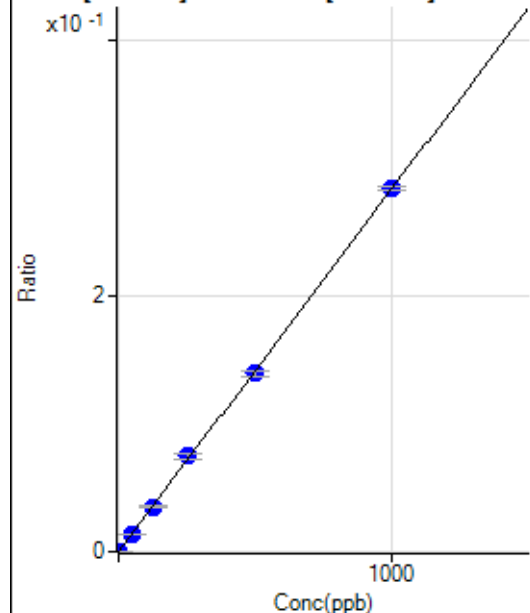
$$DL = 0.01067$$

$$BEC = 0.05123$$

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	54.45	0.0000	P	24.3
2	☐	1.000	0.857	1193.39	0.0003	P	7.2
3	☐	50.000	49.628	66028.71	0.0141	P	1.5
4	☐	125.000	123.946	160349.29	0.0351	P	1.2
5	☐	250.000	263.290	315897.35	0.0746	P	6.7
6	☐	500.000	491.352	608636.73	0.1391	P	2.6
7	☐	1000.000	1001.152	1220606.05	0.2835	P	1.0
8	☐			811.14	0.0002	P	4.2

$$y = 2.8314E-004 * x + 1.1661E-005$$

$$R = 0.9998$$

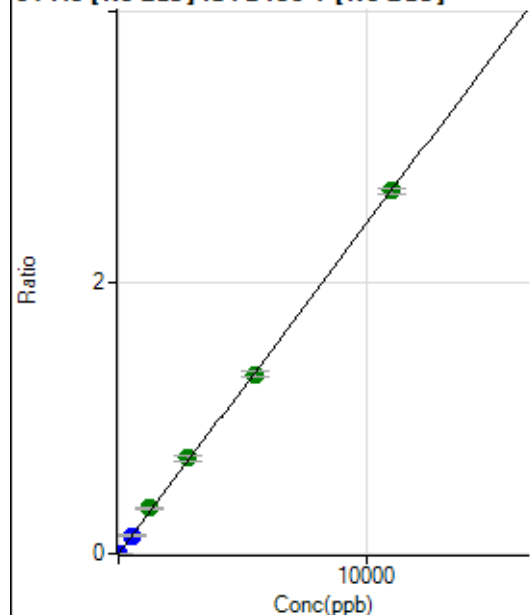
$$DL = 0.03006$$

$$BEC = 0.04118$$

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	165.56	0.0000	P	14.9
2	☐	5.000	5.577	6543.74	0.0014	P	3.1
3	☐	550.000	552.615	632385.48	0.1347	P	1.0
4	☐	1250.000	1372.974	1528222.67	0.3346	A	1.4
5	☐	2750.000	2890.365	2984593.08	0.7043	A	6.2
6	☐	5500.000	5435.151	5793387.55	1.3243	A	2.8
7	☐	11000.000	10983.228	11523274.55	2.6762	A	1.3
8	☐			6887.25	0.0016	P	0.4

$$y = 2.4366\text{E-}004 * x + 3.5467\text{E-}005$$

$$R = 0.9998$$

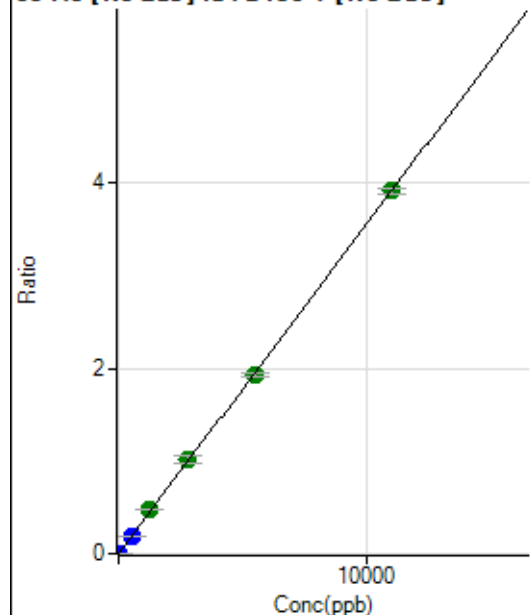
$$DL = 0.06509$$

$$BEC = 0.1456$$

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	184.45	0.0000	P	11.4
2	☐	5.000	4.703	8045.62	0.0017	P	3.5
3	☐	550.000	550.432	920524.59	0.1961	P	1.1
4	☐	1250.000	1359.584	2211753.98	0.4842	A	0.4
5	☐	2750.000	2858.235	4312421.99	1.0179	A	6.8
6	☐	5500.000	5416.159	8437790.36	1.9288	A	2.3
7	☐	11000.000	11002.387	16870745.72	3.9181	A	1.3
8	☐			9593.21	0.0023	P	2.5

$$y = 3.5611\text{E-}004 * x + 3.9530\text{E-}005$$

$$R = 0.9999$$

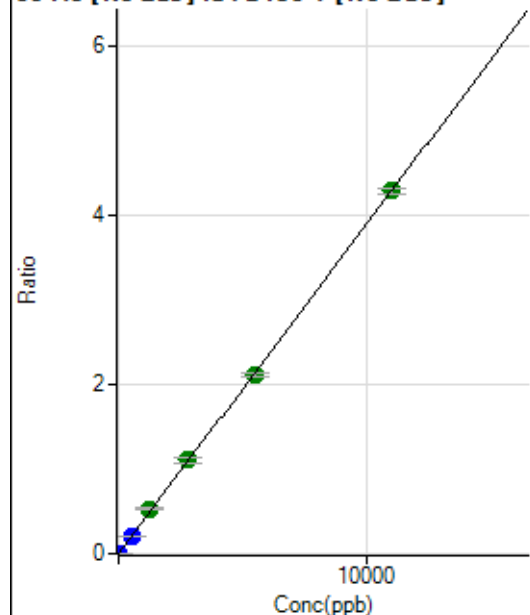
$$DL = 0.03806$$

$$BEC = 0.111$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	64.45	0.0000	P	16.6
2	☐	5.000	4.854	8929.48	0.0019	P	1.8
3	☐	550.000	551.465	1007628.24	0.2146	P	0.6
4	☐	1250.000	1363.773	2423839.01	0.5307	A	1.7
5	☐	2750.000	2852.028	4703050.00	1.1098	A	6.1
6	☐	5500.000	5418.744	9224769.24	2.1085	A	1.3
7	☐	11000.000	11002.119	18433826.67	4.2811	A	1.3
8	☐			11642.50	0.0028	P	2.2

$$y = 3.8911\text{E-}004 * x + 1.3812\text{E-}005$$

$$R = 0.9999$$

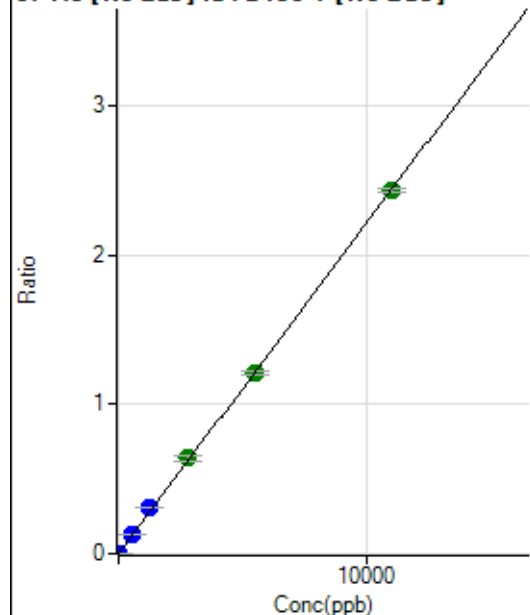
$$DL = 0.01773$$

$$BEC = 0.0355$$

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	67.78	0.0000	P	10.1
2	☐	5.000	4.688	4946.45	0.0011	P	4.0
3	☐	550.000	556.716	579591.21	0.1234	P	0.7
4	☐	1250.000	1389.542	1407190.57	0.3081	P	1.1
5	☐	2750.000	2882.981	2707925.24	0.6392	A	6.8
6	☐	5500.000	5468.845	5304248.88	1.2125	A	1.9
7	☐	11000.000	10966.140	10468464.98	2.4312	A	1.2
8	☐			5911.25	0.0014	P	5.5

$$y = 2.2170\text{E-}004 * x + 1.4525\text{E-}005$$

$$R = 0.9999$$

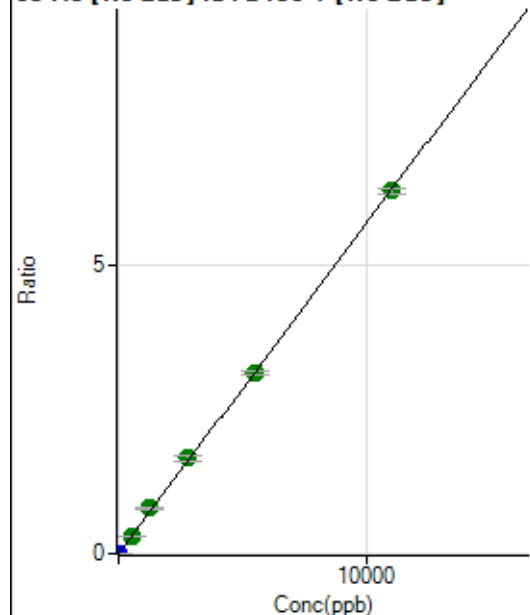
$$DL = 0.01979$$

$$BEC = 0.06551$$

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	55.56	0.0000	P	17.9
2	☐	5.000	4.752	12810.15	0.0027	P	3.0
3	☐	550.000	543.196	1458942.13	0.3107	A	0.9
4	☐	1250.000	1371.372	3582984.36	0.7844	A	1.3
5	☐	2750.000	2894.570	7016463.44	1.6557	A	6.2
6	☐	5500.000	5463.472	13671143.13	3.1251	A	2.5
7	☐	11000.000	10968.670	27015353.76	6.2741	A	1.8
8	☐			15105.65	0.0036	P	2.0

$$y = 5.7200\text{E-}004 * x + 1.1901\text{E-}005$$

$$R = 0.9998$$

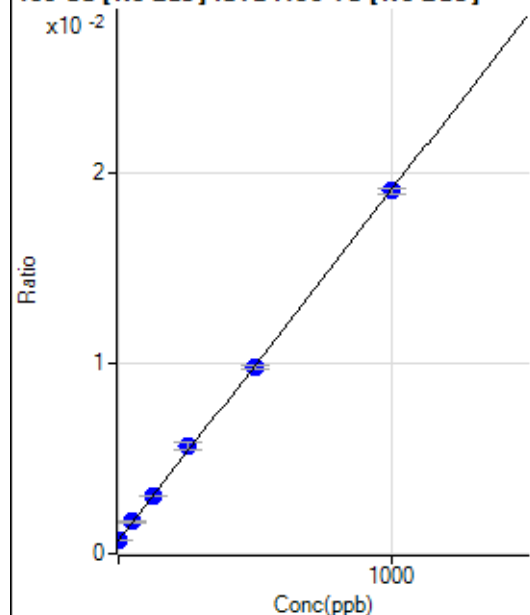
$$DL = 0.01115$$

$$BEC = 0.02081$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3731.63	0.0007	P	4.4
2	☐	1.000	1.042	3908.34	0.0007	P	1.3
3	☐	50.000	52.788	9170.74	0.0017	P	3.0
4	☐	125.000	127.522	16360.41	0.0030	P	1.0
5	☐	250.000	269.078	28964.51	0.0057	P	7.6
6	☐	500.000	495.629	52463.27	0.0098	P	1.6
7	☐	1000.000	996.961	100428.27	0.0191	P	1.3
8	☐			3350.42	0.0007	P	4.4

$$y = 1.8423\text{E-}005 * x + 6.9941\text{E-}004$$

$$R = 0.9998$$

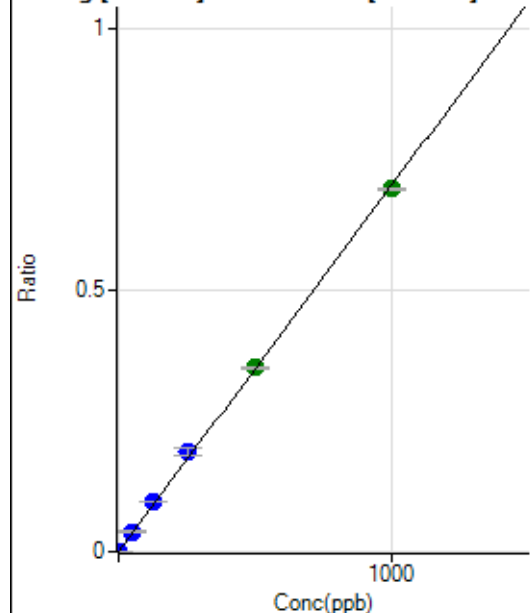
$$DL = 5.056$$

$$BEC = 37.96$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	45.56	0.0000	P	37.6
2	☐	1.000	1.028	3953.90	0.0007	P	3.4
3	☐	50.000	54.774	210150.66	0.0383	P	1.7
4	☐	125.000	135.967	510206.07	0.0951	P	1.7
5	☐	250.000	274.524	983296.52	0.1920	P	6.8
6	☐	500.000	503.272	1878170.41	0.3519	A	1.2
7	☐	1000.000	990.624	3648788.66	0.6927	A	0.3
8	☐			1186.73	0.0002	P	11.4

$$y = 6.9923\text{E-}004 * x + 8.5409\text{E-}006$$

$$R = 0.9996$$

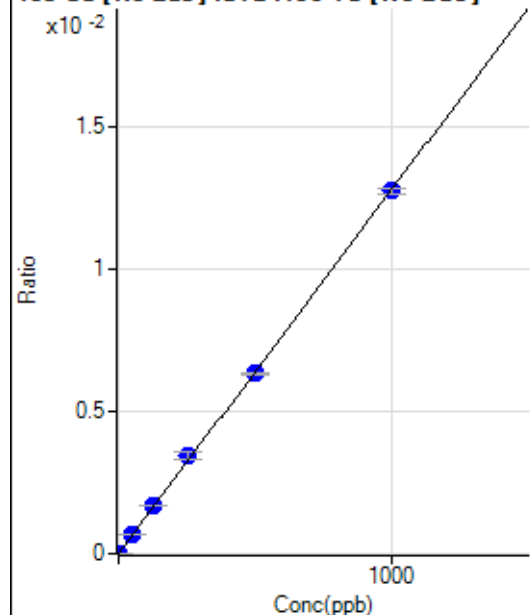
$$DL = 0.01377$$

$$BEC = 0.01221$$

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	7.78	0.0000	P	49.4
2	☐	1.000	0.816	64.44	0.0000	P	29.7
3	☐	50.000	53.311	3737.19	0.0007	P	7.0
4	☐	125.000	132.471	9076.25	0.0017	P	2.1
5	☐	250.000	267.676	17492.88	0.0034	P	7.7
6	☐	500.000	494.538	33677.98	0.0063	P	1.7
7	☐	1000.000	997.213	67020.27	0.0127	P	1.3
8	☐			125.56	0.0000	P	11.0

$$y = 1.2757\text{E-}005 * x + 1.4566\text{E-}006$$

$$R = 0.9998$$

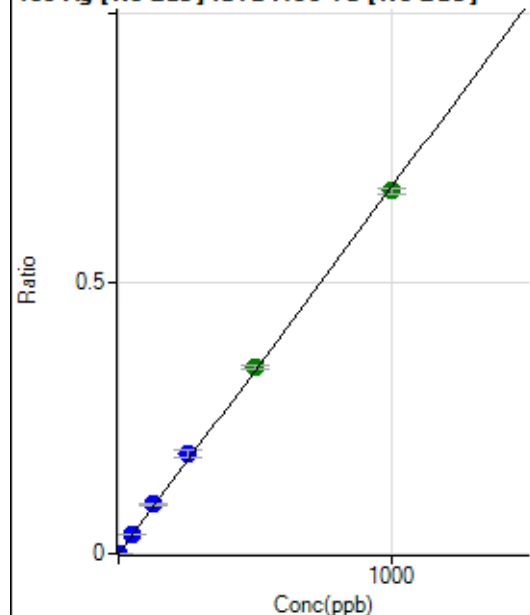
$$DL = 0.1692$$

$$BEC = 0.1142$$

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	8.89	0.0000	P	77.9
2	☐	1.000	1.011	3737.19	0.0007	P	3.4
3	☐	50.000	54.234	201699.74	0.0368	P	2.1
4	☐	125.000	134.294	488540.05	0.0910	P	1.8
5	☐	250.000	272.012	944654.43	0.1844	P	6.7
6	☐	500.000	507.176	1835035.04	0.3438	A	1.9
7	☐	1000.000	989.536	3533825.64	0.6708	A	1.6
8	☐			1072.27	0.0002	P	13.3

$$y = 6.7794\text{E-}004 * x + 1.6654\text{E-}006$$

$$R = 0.9997$$

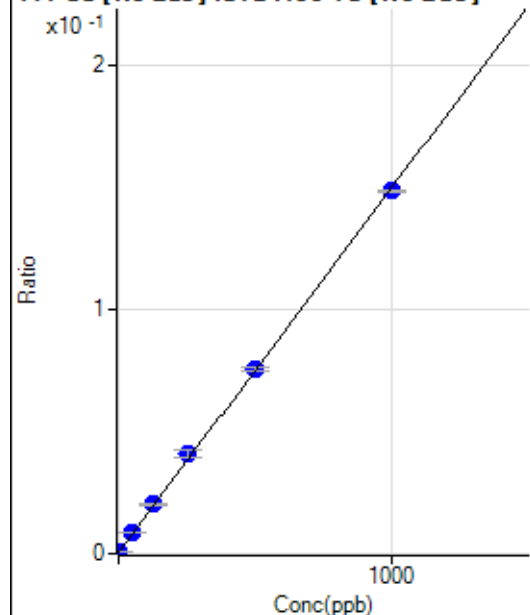
$$DL = 0.005743$$

$$BEC = 0.002457$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2613.36	0.0005	P	4.3
2	☐	1.000	1.099	3555.21	0.0007	P	2.2
3	☐	50.000	53.426	46400.40	0.0085	P	2.6
4	☐	125.000	132.192	108431.68	0.0202	P	2.0
5	☐	250.000	272.179	210461.08	0.0411	P	6.9
6	☐	500.000	502.234	402421.22	0.0754	P	2.0
7	☐	1000.000	992.268	782207.81	0.1485	P	0.7
8	☐			2551.86	0.0005	P	4.3

$$y = 1.4916\text{E-}004 * x + 4.8982\text{E-}004$$

$$R = 0.9997$$

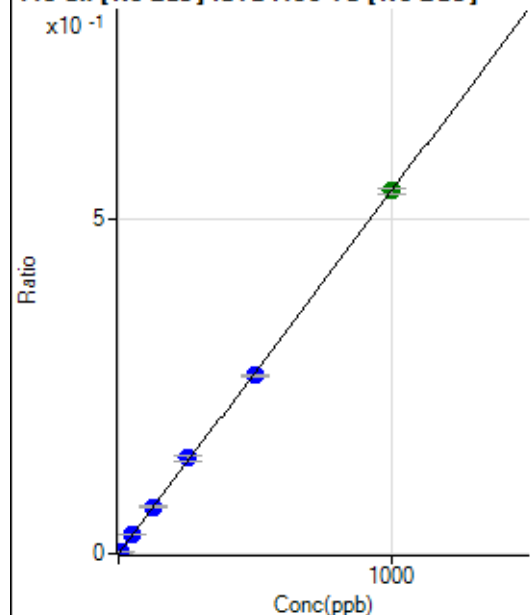
$$DL = 0.4211$$

$$BEC = 3.284$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	677.80	0.0001	P	8.4
2	☐	5.000	4.872	15062.44	0.0028	P	1.4
3	☐	50.000	51.287	153304.25	0.0279	P	1.2
4	☐	125.000	128.680	375182.46	0.0699	P	2.2
5	☐	250.000	263.812	733650.76	0.1432	P	6.7
6	☐	500.000	492.227	1425555.19	0.2671	P	1.1
7	☐	1000.000	999.910	2857464.79	0.5425	A	1.3
8	☐			2653.60	0.0005	P	4.5

$$y = 5.4239\text{E-}004 * x + 1.2706\text{E-}004$$

$$R = 0.9998$$

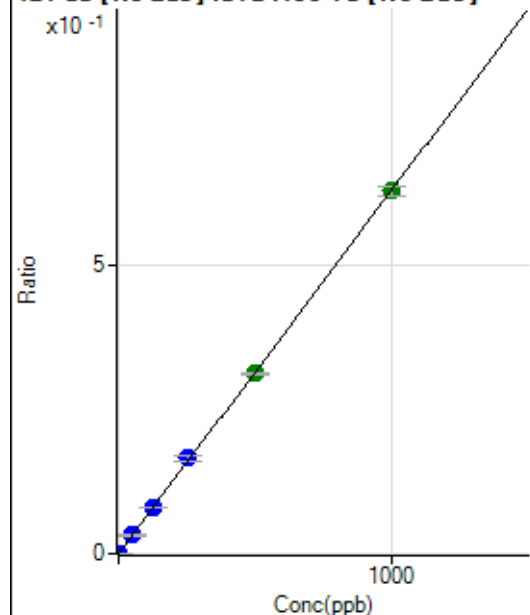
$$DL = 0.05893$$

$$BEC = 0.2343$$

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	12.22	0.0000	P	63.0
2	☐	2.000	1.985	6813.89	0.0013	P	2.0
3	☐	50.000	50.564	174759.43	0.0319	P	1.5
4	☐	125.000	127.074	429576.85	0.0801	P	1.9
5	☐	250.000	262.376	846529.15	0.1653	P	7.2
6	☐	500.000	495.327	1665380.10	0.3120	A	1.7
7	☐	1000.000	998.955	3314965.82	0.6293	A	2.4
8	☐			2750.29	0.0005	P	4.0

$$y = 6.2997\text{E-}004 * x + 2.2916\text{E-}006$$

$$R = 0.9999$$

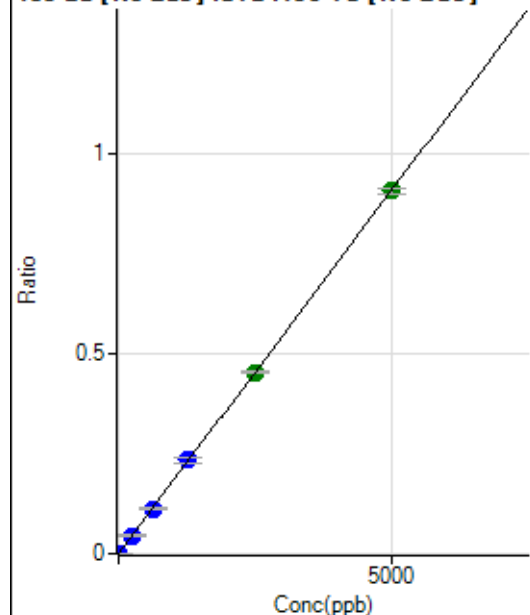
$$DL = 0.006878$$

$$BEC = 0.003638$$

Weight: <None>

Min Conc: 0

135 Ba [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	43.1
2	☐	10.000	9.376	9277.55	0.0017	P	1.0
3	☐	250.000	249.401	248682.33	0.0453	P	1.9
4	☐	625.000	619.087	603836.56	0.1125	P	1.3
5	☐	1250.000	1284.222	1195365.82	0.2334	P	7.3
6	☐	2500.000	2496.691	2421930.12	0.4538	A	1.4
7	☐	5000.000	4993.869	4781090.90	0.9077	A	1.6
8	☐			2119.07	0.0004	P	3.4

$$y = 1.8176E-004 * x + 1.6656E-006$$

$$R = 1.0000$$

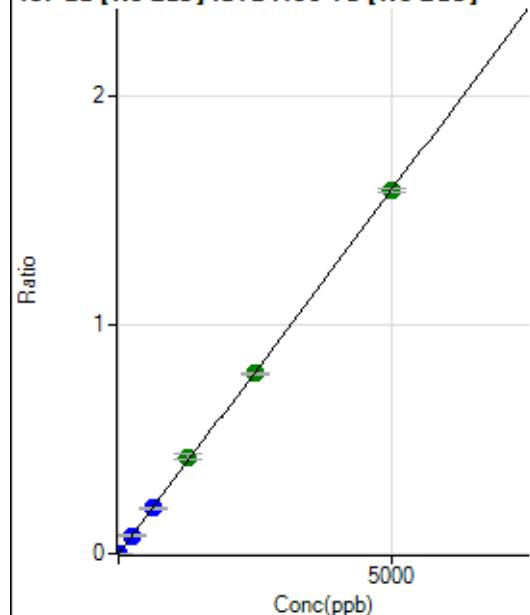
$$DL = 0.01185$$

$$BEC = 0.009164$$

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	35.56	0.0000	P	46.1
2	☐	10.000	9.542	16530.82	0.0030	P	1.4
3	☐	250.000	249.691	435427.69	0.0794	P	1.7
4	☐	625.000	622.766	1062255.86	0.1980	P	1.7
5	☐	1250.000	1331.436	2167785.52	0.4232	A	6.9
6	☐	2500.000	2480.870	4208699.83	0.7886	A	1.1
7	☐	5000.000	4989.502	8354189.74	1.5860	A	1.1
8	☐			3767.20	0.0007	P	2.5

$$y = 3.1786E-004 * x + 6.6603E-006$$

$$R = 0.9998$$

$$DL = 0.02899$$

$$BEC = 0.02095$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			7.78		P	107.
3	☐			85.56		P	6.0
4	☐			176.67		P	25.4
5	☐			330.01		P	5.6
6	☐			643.35		P	8.8
7	☐			1265.63		P	2.2
8	☐			90.00		P	32.9

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			2.22		P	86.6
3	☐			13.33		P	25.0
4	☐			42.22		P	31.9
5	☐			62.22		P	18.8
6	☐			87.78		P	24.7
7	☐			191.11		P	5.3
8	☐			51.11		P	16.4

156 Dy [No Gas] No available calibration points

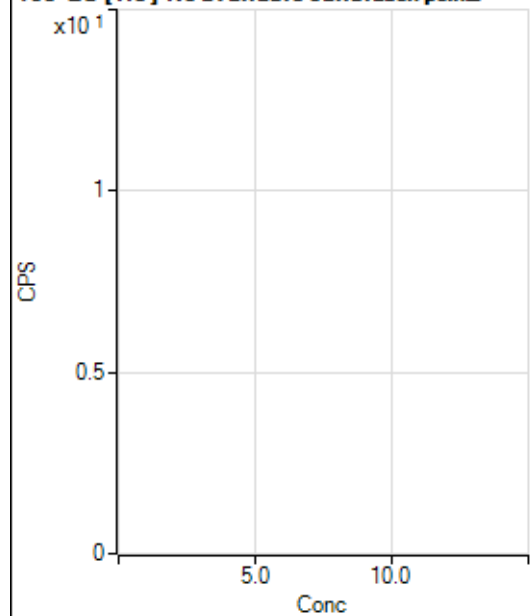
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	173.
2	☐			4.44		P	43.4
3	☐			17.78		P	28.6
4	☐			45.56		P	22.4
5	☐			45.56		P	33.0
6	☐			110.00		P	10.5
7	☐			216.67		P	6.2
8	☐			177.78		P	6.0

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			2.22		P	86.6
3	☐			8.89		P	21.6
4	☐			22.22		P	8.7
5	☐			40.00		P	16.7
6	☐			106.67		P	25.6
7	☐			187.78		P	3.7
8	☐			97.78		P	17.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			32.22		P	21.5
2	☐			41.11		P	9.4
3	☐			43.33		P	40.7
4	☐			46.67		P	25.8
5	☐			62.22		P	25.3
6	☐			53.33		P	18.8
7	☐			116.67		P	4.9
8	☐			154.45		P	23.7

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			201.11		P	19.6
2	☐			180.00		P	11.3
3	☐			178.89		P	6.5
4	☐			162.22		P	8.3
5	☐			168.89		P	21.1
6	☐			195.56		P	9.4
7	☐			212.23		P	5.5
8	☐			218.89		P	14.1

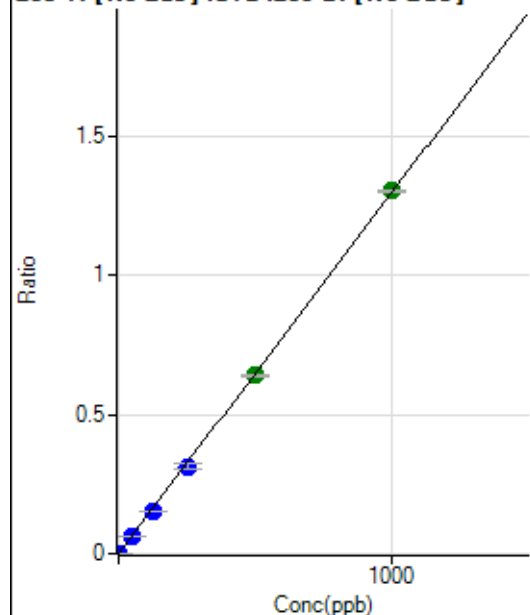
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			42.22		P	22.8
2	☐			42.22		P	29.9
3	☐			42.22		P	4.6
4	☐			44.44		P	18.9
5	☐			46.67		P	42.9
6	☐			76.67		P	0.0
7	☐			91.11		P	11.8
8	☐			186.67		P	10.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			28.89		P	35.2
2	☐			14.45		P	26.7
3	☐			25.55		P	27.1
4	☐			34.45		P	48.7
5	☐			42.22		P	9.1
6	☐			46.67		P	25.8
7	☐			53.34		P	21.6
8	☐			98.89		P	10.8

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	106.67	0.0000	P	27.6
2	☐	1.000	0.835	4159.57	0.0011	P	1.5
3	☐	50.000	45.974	226254.44	0.0596	P	1.4
4	☐	125.000	115.307	557542.42	0.1494	P	0.2
5	☐	250.000	242.567	1106612.10	0.3143	P	7.3
6	☐	500.000	494.397	2351685.66	0.6406	A	1.0
7	☐	1000.000	1006.073	4647304.83	1.3036	A	0.7
8	☐			1201.18	0.0004	P	8.3

$$y = 0.0013 * x + 2.8330E-005$$

$$R = 0.9999$$

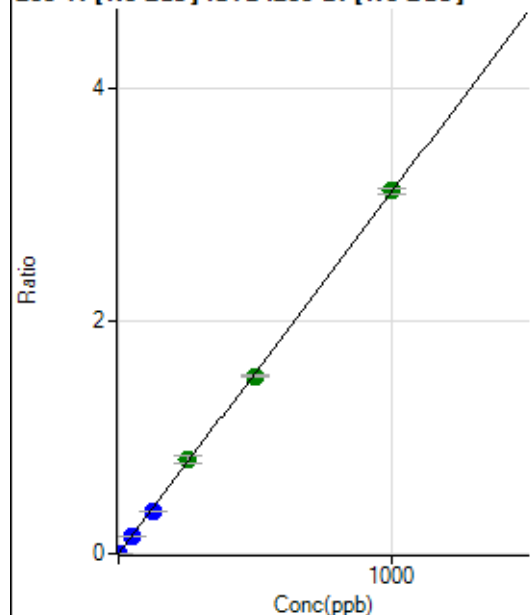
$$DL = 0.01811$$

$$BEC = 0.02186$$

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	312.23	0.0001	P	22.6
2	☐	1.000	0.856	10295.10	0.0027	P	0.4
3	☐	50.000	45.970	543304.97	0.1431	P	1.2
4	☐	125.000	115.605	1342269.37	0.3597	P	0.4
5	☐	250.000	260.462	2853742.67	0.8104	A	6.9
6	☐	500.000	490.786	5605644.08	1.5270	A	1.1
7	☐	1000.000	1003.367	11129256.22	3.1217	A	1.6
8	☐			2941.47	0.0009	P	12.3

$$y = 0.0031 * x + 8.2889E-005$$

$$R = 0.9998$$

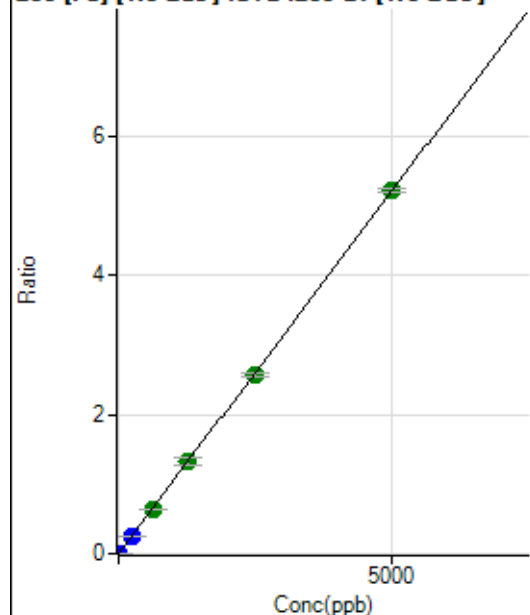
$$DL = 0.01806$$

$$BEC = 0.02664$$

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	227.78	0.0001	P	8.3
2	☐	1.000	0.854	3563.84	0.0010	P	2.4
3	☐	250.000	232.992	922025.70	0.2429	P	1.4
4	☐	625.000	616.842	2398630.04	0.6429	A	0.8
5	☐	1250.000	1281.516	4701814.48	1.3355	A	7.4
6	☐	2500.000	2469.477	9447057.15	2.5735	A	2.5
7	☐	5000.000	5009.253	18610239.72	5.2202	A	1.2
8	☐			9457.82	0.0030	P	3.5

$$y = 0.0010 * x + 6.0425E-005$$

$$R = 0.9999$$

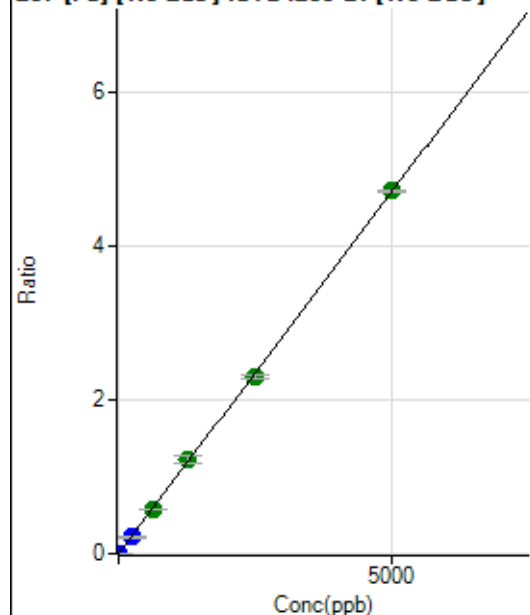
$$DL = 0.01443$$

$$BEC = 0.05798$$

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	162.23	0.0000	P	20.7
2	☐	1.000	0.854	3169.29	0.0008	P	1.3
3	☐	250.000	227.535	811974.73	0.2139	P	1.4
4	☐	625.000	618.445	2168657.78	0.5812	A	1.0
5	☐	1250.000	1298.177	4295159.10	1.2200	A	7.4
6	☐	2500.000	2443.935	8431222.30	2.2968	A	1.8
7	☐	5000.000	5017.931	16811744.47	4.7157	A	0.3
8	☐			8409.34	0.0027	P	2.8

$$y = 9.3976E-004 * x + 4.3067E-005$$

$$R = 0.9998$$

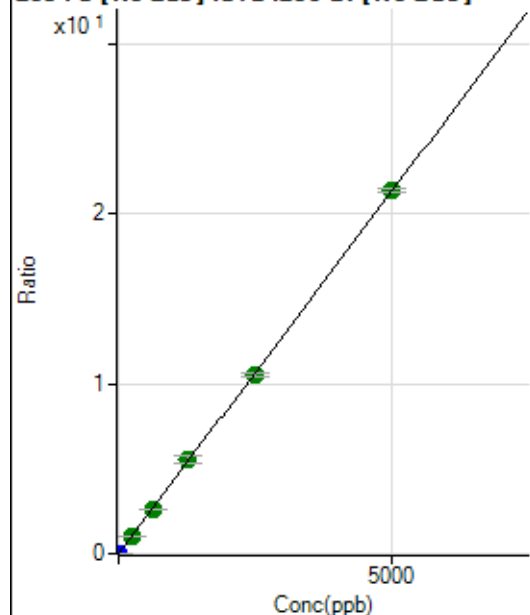
$$DL = 0.02842$$

$$BEC = 0.04583$$

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	803.36	0.0002	P	8.3
2	☐	1.000	0.858	14520.99	0.0039	P	1.1
3	☐	250.000	238.948	3869775.93	1.0193	A	1.0
4	☐	625.000	616.766	9815105.90	2.6306	A	0.4
5	☐	1250.000	1296.780	19472013.15	5.5307	A	7.3
6	☐	2500.000	2458.048	38482708.18	10.4833	A	2.2
7	☐	5000.000	5010.863	76186698.59	21.3705	A	0.9
8	☐			38468.44	0.0123	P	1.3

$$y = 0.0043 * x + 2.1311E-004$$

$$R = 0.9999$$

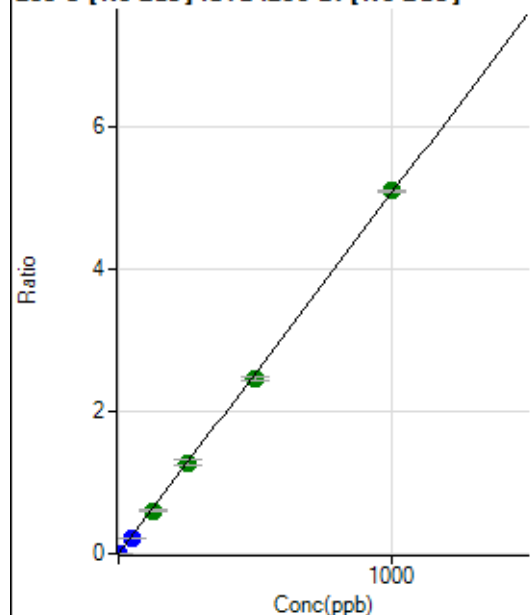
$$DL = 0.0124$$

$$BEC = 0.04997$$

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	11.11	0.0000	P	62.0
2	☐	1.000	0.818	15529.11	0.0041	P	2.6
3	☐	50.000	43.195	830009.31	0.2186	P	1.7
4	☐	125.000	119.694	2260377.50	0.6058	A	0.7
5	☐	250.000	253.097	4509691.98	1.2810	A	7.5
6	☐	500.000	486.921	9047049.52	2.4645	A	1.9
7	☐	1000.000	1006.769	18166391.12	5.0957	A	0.8
8	☐			3093.72	0.0010	P	1.8

$$y = 0.0051 * x + 2.9349E-006$$

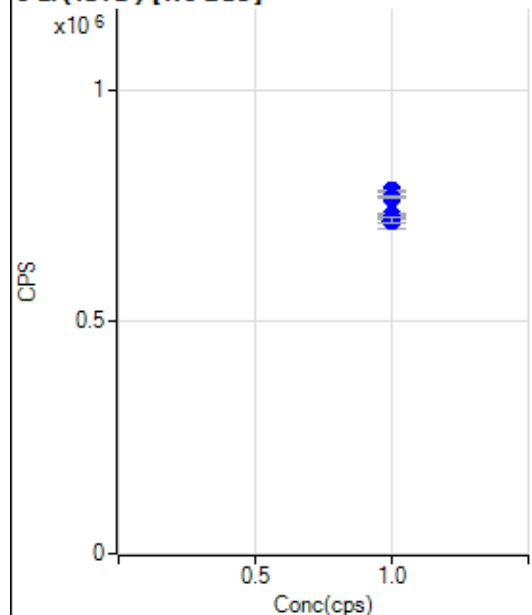
$$R = 0.9998$$

$$DL = 0.001078$$

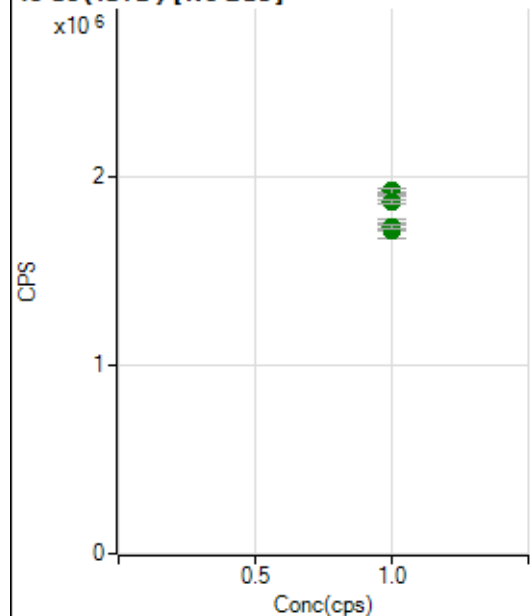
$$BEC = 0.0005799$$

Weight: <None>

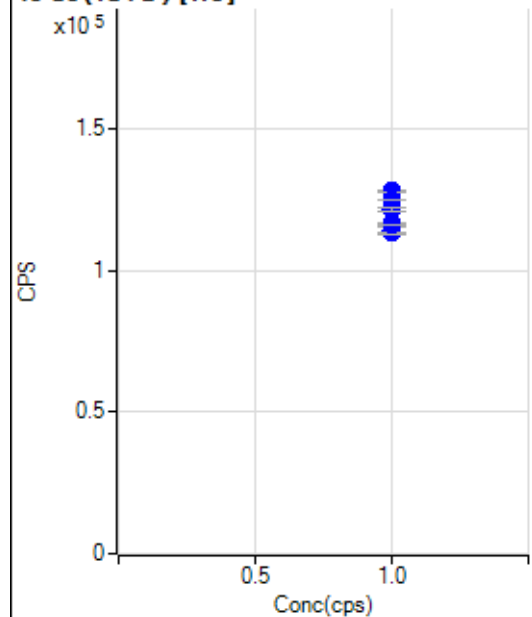
Min Conc: 0

6 Li (ISTD) [No Gas]

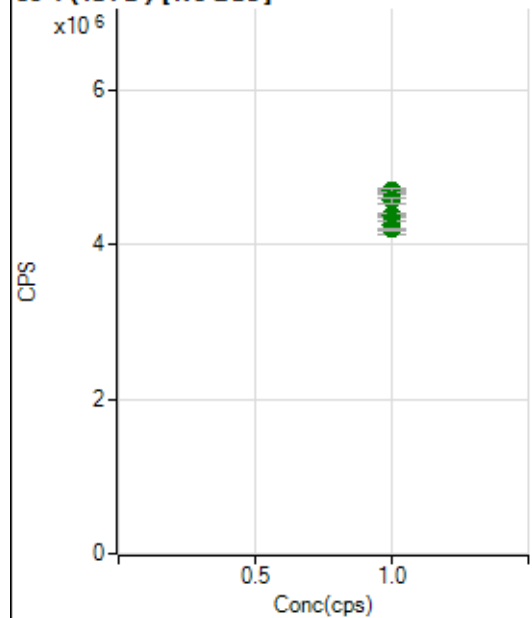
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		780857.57		P	0.5
2	☐	1.000		781988.96		P	0.5
3	☐	1.000		782347.12		P	0.5
4	☐	1.000		768912.05		P	0.7
5	☐	1.000		717489.54		P	4.6
6	☐	1.000		730863.96		P	0.5
7	☐	1.000		722569.25		P	0.2
8	☐	1.000		719175.82		P	1.5

45 Sc (ISTD) [No Gas]

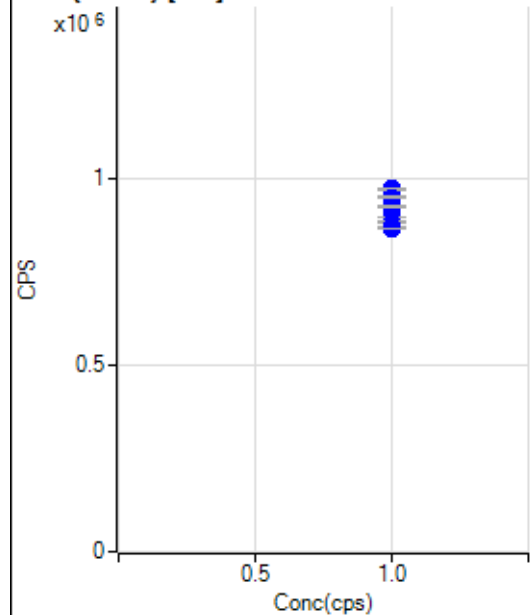
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1907263.32		A	1.3
2	☐	1.000		1905740.49		A	1.3
3	☐	1.000		1922669.41		A	1.6
4	☐	1.000		1861419.85		A	1.3
5	☐	1.000		1721356.30		A	5.7
6	☐	1.000		1735784.76		A	1.9
7	☐	1.000		1714690.72		A	0.9
8	☐	1.000		1731987.11		A	0.8

45 Sc (ISTD) [He]

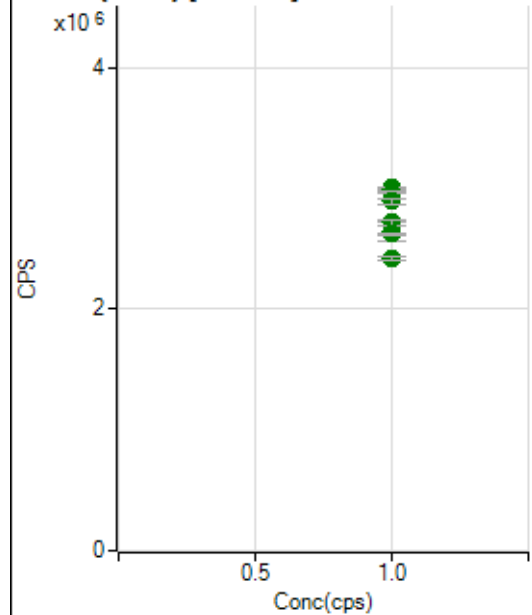
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		128075.35		P	0.1
2	☐	1.000		127613.39		P	0.3
3	☐	1.000		124848.50		P	0.4
4	☐	1.000		121578.02		P	0.9
5	☐	1.000		116916.40		P	0.1
6	☐	1.000		114268.78		P	1.9
7	☐	1.000		113103.18		P	0.2
8	☐	1.000		116021.69		P	0.1

89 Y (ISTD) [No Gas]

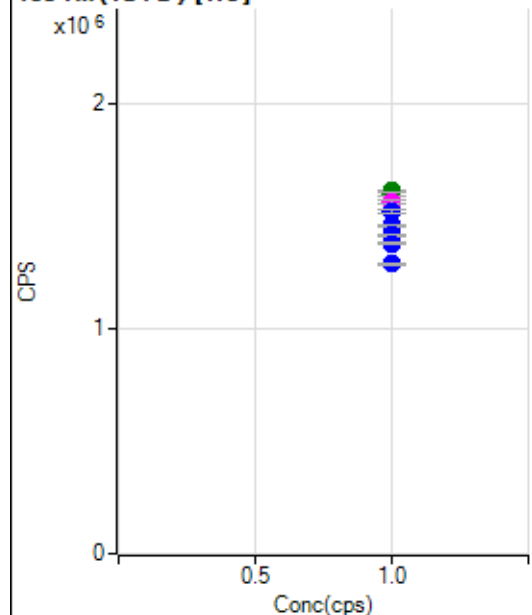
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4665855.14		A	0.5
2	☐	1.000		4693177.26		A	0.5
3	☐	1.000		4695606.32		A	0.9
4	☐	1.000		4568010.52		A	1.1
5	☐	1.000		4248051.22		A	5.9
6	☐	1.000		4375391.53		A	1.1
7	☐	1.000		4305939.55		A	0.2
8	☐	1.000		4195672.82		A	0.2

89 Y (ISTD) [He]

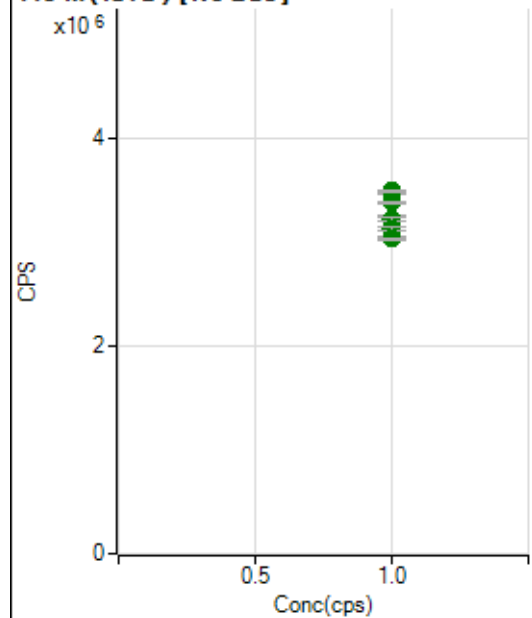
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		972899.99		P	0.4
2	☐	1.000		972245.73		P	0.1
3	☐	1.000		951354.96		P	0.9
4	☐	1.000		925471.72		P	0.3
5	☐	1.000		896443.42		P	0.3
6	☐	1.000		882842.13		P	0.5
7	☐	1.000		873208.51		P	0.1
8	☐	1.000		866828.01		P	0.4

103 Rh (ISTD) [No Gas]

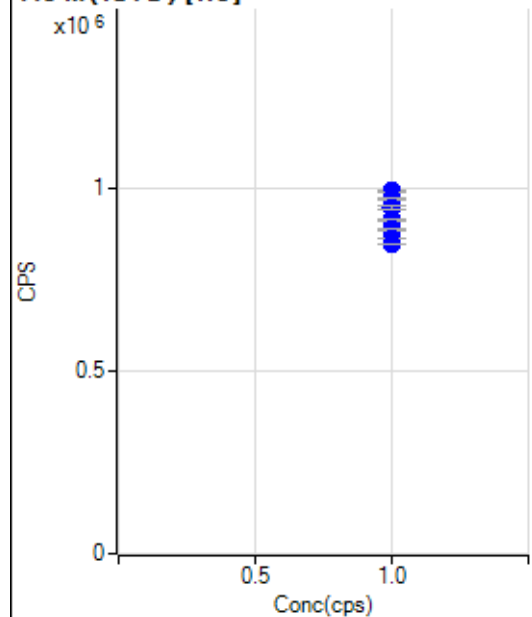
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3003148.36		A	0.6
2	☐	1.000		2990100.76		A	1.0
3	☐	1.000		2965245.30		A	0.3
4	☐	1.000		2889538.64		A	1.5
5	☐	1.000		2636808.24		A	6.0
6	☐	1.000		2717088.85		A	1.8
7	☐	1.000		2624509.75		A	0.8
8	☐	1.000		2421578.40		A	1.0

103 Rh (ISTD) [He]

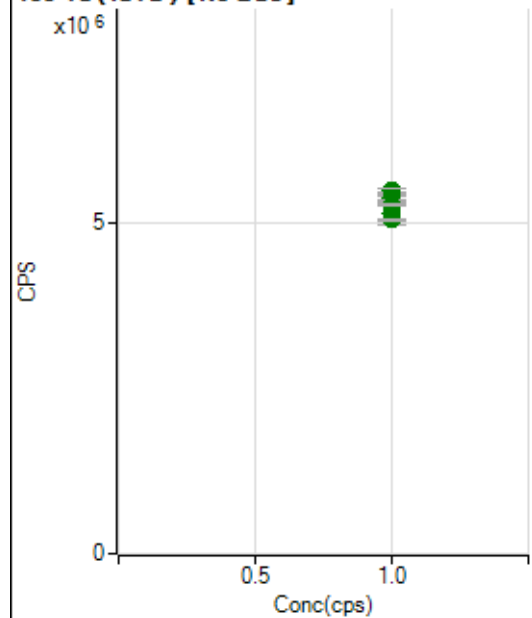
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1613577.44		A	0.3
2	☐	1.000		1597421.71		A	0.9
3	☐	1.000		1561402.63		M	1.1
4	☐	1.000		1520063.22		P	1.0
5	☐	1.000		1459181.04		P	0.2
6	☐	1.000		1418135.50		P	0.8
7	☐	1.000		1380567.18		P	0.3
8	☐	1.000		1289251.22		P	0.5

115 In (ISTD) [No Gas]

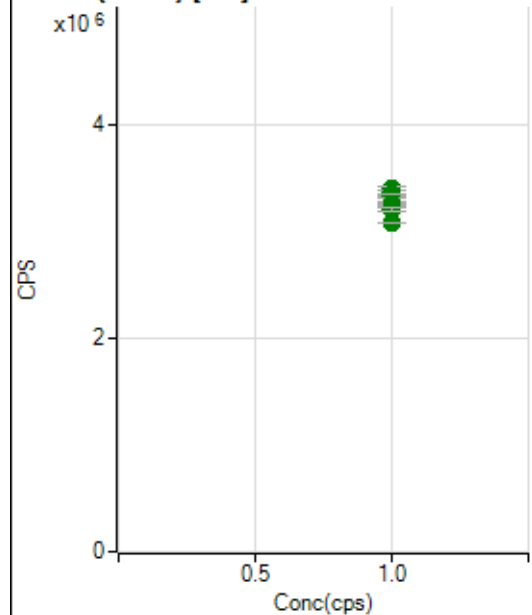
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3471141.84		A	0.9
2	☐	1.000		3494060.61		A	0.6
3	☐	1.000		3482830.51		A	0.5
4	☐	1.000		3382482.13		A	0.2
5	☐	1.000		3152415.38		A	6.6
6	☐	1.000		3218871.39		A	1.2
7	☐	1.000		3128216.54		A	0.8
8	☐	1.000		3030472.10		A	0.9

115 In (ISTD) [He]

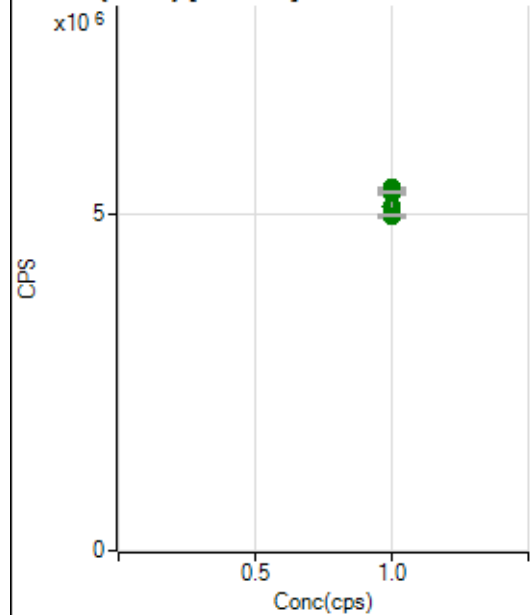
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		990444.49		P	0.5
2	☐	1.000		986812.39		P	0.2
3	☐	1.000		970690.47		P	0.5
4	☐	1.000		944981.06		P	0.6
5	☐	1.000		912302.49		P	0.5
6	☐	1.000		886111.20		P	0.6
7	☐	1.000		861802.68		P	0.3
8	☐	1.000		846721.24		P	0.1

159 Tb (ISTD) [No Gas]

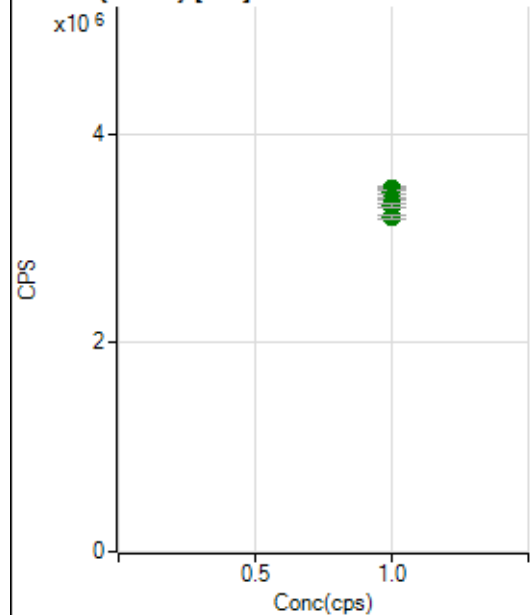
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5335227.91		A	0.2
2	☐	1.000		5438445.06		A	0.7
3	☐	1.000		5486539.08		A	1.2
4	☐	1.000		5366873.36		A	1.5
5	☐	1.000		5137843.95		A	6.7
6	☐	1.000		5337130.61		A	0.3
7	☐	1.000		5267561.76		A	0.4
8	☐	1.000		5051037.98		A	0.5

159 Tb (ISTD) [He]

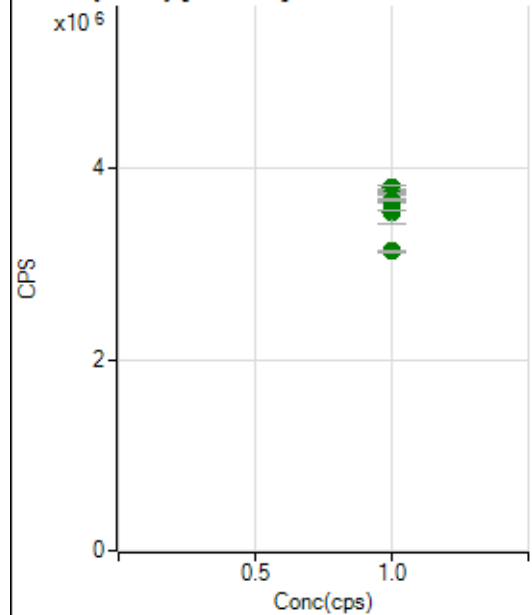
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3372599.50		A	1.0
2	☐	1.000		3405515.61		A	1.0
3	☐	1.000		3348658.80		A	0.7
4	☐	1.000		3343050.75		A	1.2
5	☐	1.000		3274039.05		A	0.7
6	☐	1.000		3243701.65		A	0.2
7	☐	1.000		3217232.38		A	0.8
8	☐	1.000		3081030.30		A	0.1

165 Ho (ISTD) [No Gas]

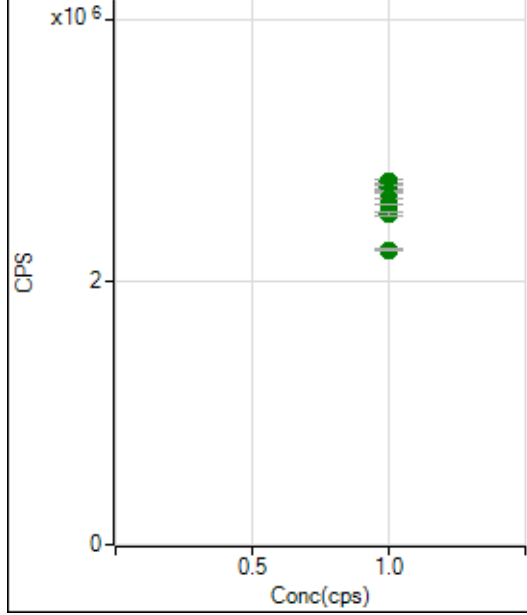
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5373389.43		A	0.9
2	☐	1.000		5354485.41		A	0.6
3	☐	1.000		5389167.21		A	0.9
4	☐	1.000		5350208.67		A	0.4
5	☐	1.000		5117455.96		A	6.6
6	☐	1.000		5305925.47		A	0.3
7	☐	1.000		5325331.66		A	0.9
8	☐	1.000		4973816.18		A	0.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3474663.80		A	0.9
2	☐	1.000		3474968.77		A	0.3
3	☐	1.000		3444576.09		A	1.2
4	☐	1.000		3397909.78		A	1.4
5	☐	1.000		3374500.43		A	0.5
6	☐	1.000		3329677.03		A	0.2
7	☐	1.000		3316834.88		A	1.0
8	☐	1.000		3200372.59		A	1.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3771668.52		A	0.9
2	☐	1.000		3748012.17		A	0.5
3	☐	1.000		3796830.19		A	0.9
4	☐	1.000		3731175.29		A	0.6
5	☐	1.000		3532303.21		A	6.8
6	☐	1.000		3671201.99		A	0.6
7	☐	1.000		3565060.89		A	0.3
8	☐	1.000		3134953.11		A	0.9

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2763169.68		A	1.9
2	☐	1.000		2749771.59		A	0.2
3	☐	1.000		2723069.75		A	1.1
4	☐	1.000		2684821.35		A	0.7
5	☐	1.000		2636433.19		A	0.4
6	☐	1.000		2593463.59		A	0.4
7	☐	1.000		2524261.35		A	1.1
8	☐	1.000		2244398.19		A	0.7

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7061924-MS.b

Acq. Date-Time 2024-06-19 12:45:28

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		3996	39960.43			0.393	5.000
24		37489	374885.88			0.278	5.000
25		4912	49124.78			0.603	5.000
26		5593	55931.04			0.300	5.000
59		34602	346019.38			0.406	5.000
113		5100	50999.96			0.873	5.000
115		63847	638469.75			0.749	5.000
206		19920	199200.99			0.609	5.000
207		18221	182209.88			0.746	5.000
208		42759	427593.07			0.552	5.000
220		0	0.40			55.902	

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

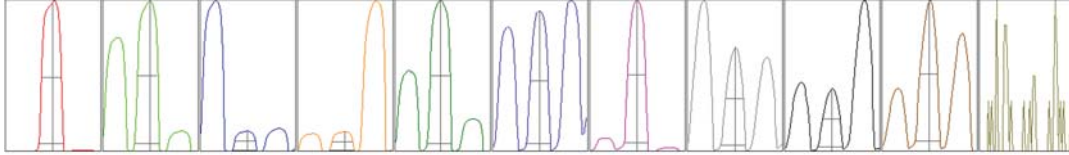
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3984	4004	3981	3992	4019
24	37643	37442	37516	37359	37482
25	4894	4879	4916	4917	4957
26	5597	5593	5609	5565	5602
59	34749	34663	34396	34676	34526
113	5154	5138	5087	5072	5049
115	64584	63887	63885	63574	63305
206	20068	19953	19962	19876	19741
207	18428	18163	18261	18191	18062
208	43068	42872	42782	42627	42448

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	6578.42	9.00	8.90 - 9.10	
24	59690.96	24.00	23.90 - 24.10	
25	7813.20	25.00	24.90 - 25.10	
26	8778.52	26.00	25.90 - 26.10	
59	56449.75	58.95	58.90 - 59.10	
113	9321.32	113.00	112.90 - 113.10	
115	117316.16	115.00	114.90 - 115.10	
206	36935.83	206.05	205.90 - 206.10	
207	33329.70	207.00	206.90 - 207.10	
208	80047.55	208.00	207.90 - 208.10	
220	0.00	220.15	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.777	0.900	
24	0.65	0.785	0.900	
25	0.66	0.762	0.900	
26	0.66	0.784	0.900	
59	0.63	0.782	0.900	
113	0.56	0.763	0.900	
115	0.56	0.752	0.900	
206	0.55	0.785	0.900	
207	0.55	0.798	0.900	
208	0.56	0.794	0.900	
220	0.25	0.250		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 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	0.0 V	Omega Lens	8.8 V	Deflect	14.6 V
Extract 2	-115.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	134	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.15		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.5 mm
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EM

Discriminator	4.7 mV	Analog HV	2311 V	Pulse HV	1401 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		9247	92466.85			0.400	
89		12158	121580.04			0.302	
205		20361	203606.31			0.217	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	9301	9217	9215	9268	9232
89	12167	12148	12100	12183	12193
205	20439	20333	20353	20340	20339

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 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	0.0 V	Omega Lens	9.1 V	Deflect	4.0 V
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US EPA Tune Check Report

Extract 2	-110.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-65 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	134	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.15		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.5 mm
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EM

Discriminator	4.7 mV	Analog HV	2311 V	Pulse HV	1401 V
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