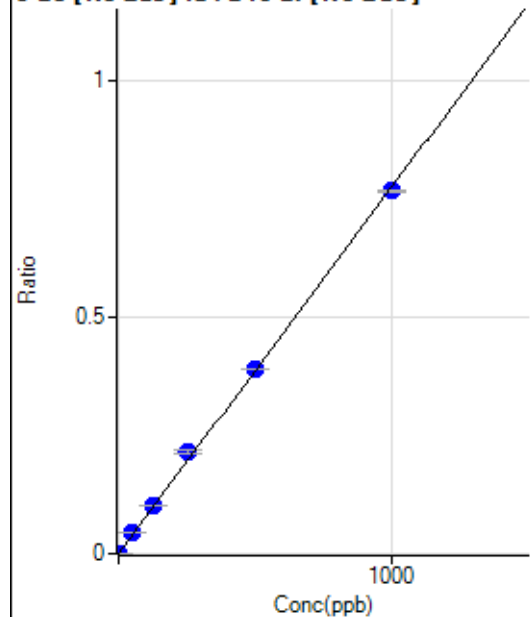


Calibration for 004CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7110423-MS.b\
 Analysis File: P7110423-MS.batch.bin
 DA Date-Time: 2023-11-04 23:49:30
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-11-04 17:34:47
2	006CALS.d	S02	2023-11-04 17:41:25
3	007CALS.d	S03	2023-11-04 17:44:43
4	008CALS.d	S04	2023-11-04 17:47:57
5	009CALS.d	S05	2023-11-04 17:51:01
6	010CALS.d	S06	2023-11-04 17:53:59
7	011CALS.d	S07	2023-11-04 17:56:52
8	012CALS.d	S08	2023-11-04 17:59:39

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	20.00	0.0000	P	77.1
2	☐	1.000	1.013	767.80	0.0008	P	9.9
3	☐	50.000	55.998	39376.33	0.0434	P	0.6
4	☐	125.000	129.878	96331.10	0.1006	P	0.5
5	☐	250.000	278.587	186123.18	0.2158	P	5.0
6	☐	500.000	502.934	350429.96	0.3896	P	0.4
7	☐	1000.000	990.476	673576.11	0.7672	P	0.2
8	☐			415.57	0.0005	P	10.6

$$y = 7.7457E-004 * x + 2.1905E-005$$

$$R = 0.9995$$

$$DL = 0.06541$$

$$BEC = 0.02828$$

Weight: <None>

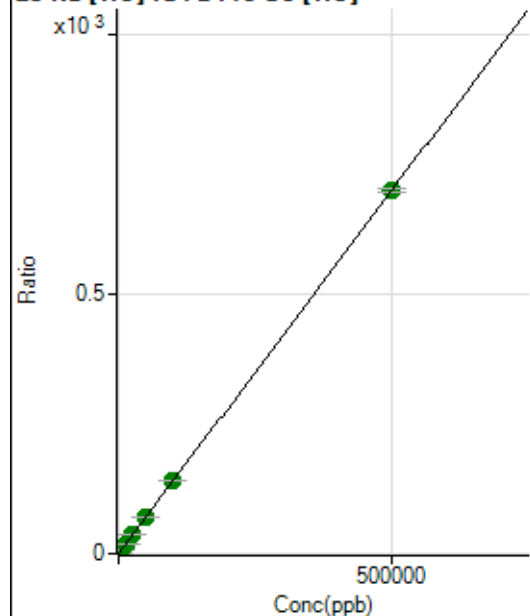
Min Conc: 0

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	3185.92	0.0180	P	2.6
2	☐	500.000	493.359	123374.51	0.7065	P	5.3
3	☐	5000.000	4997.117	1237914.41	6.9918	A	0.4
4	☐	12500.000	12576.713	3049007.87	17.5698	A	0.3
5	☐	25000.000	25520.258	5863278.66	35.6335	A	1.9
6	☐	50000.000	50674.151	11483980.94	70.7378	A	1.1
7	☐	100000.00	100109.29	22404070.50	139.7285	A	1.2
8	☐	500000.00	499882.83	105231070.6	697.6443	A	1.1

$$y = 0.0014 * x + 0.0180$$

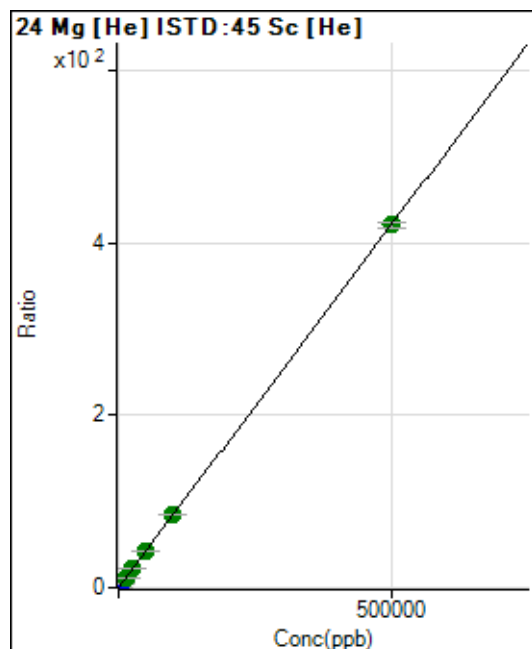
$$R = 1.0000$$

$$DL = 0.9873$$

$$BEC = 12.88$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	315.56	0.0018	P	12.0
2	☐	500.000	503.082	74418.72	0.4261	P	5.1
3	☐	5000.000	5347.089	798888.98	4.5122	P	0.2
4	☐	12500.000	13056.887	1911583.65	11.0156	A	1.9
5	☐	25000.000	26059.474	3617145.50	21.9837	A	2.1
6	☐	50000.000	51007.201	6985612.53	43.0278	A	1.3
7	☐	100000.00	100891.90	13646481.32	85.1070	A	0.5
8	☐	500000.00	499650.52	63572756.28	421.4711	A	1.4

$$y = 8.4353\text{E-}004 * x + 0.0018$$

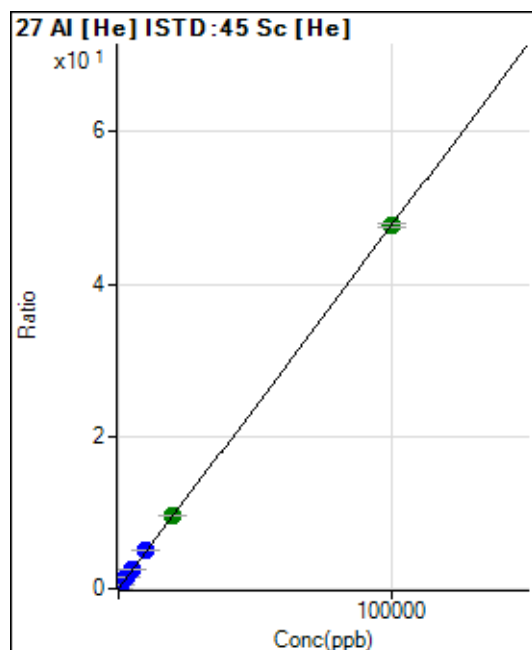
$$R = 1.0000$$

$$DL = 0.758$$

$$BEC = 2.109$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	222.23	0.0013	P	14.9
2	☐	20.000	18.204	1737.89	0.0099	P	7.1
3	☐	1000.000	1050.742	88926.41	0.5023	P	0.7
4	☐	2500.000	3026.913	250685.97	1.4446	P	0.3
5	☐	5000.000	5216.740	409476.96	2.4887	P	2.4
6	☐	10000.000	10526.106	815048.49	5.0204	P	0.8
7	☐	20000.000	20160.081	1541531.02	9.6141	A	1.0
8	☐	100000.00	99890.856	7184479.96	47.6317	A	1.1

$$y = 4.7682\text{E-}004 * x + 0.0013$$

$$R = 1.0000$$

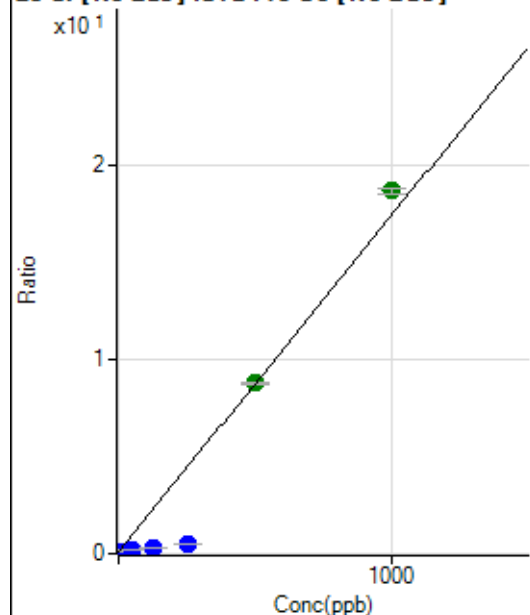
$$DL = 1.179$$

$$BEC = 2.631$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	205373.40	0.0916	P	0.5
2	☐	10.000	0.361	217582.12	0.0978	P	1.1
3	☐	50.000	4.426	373613.39	0.1681	P	1.6
4	☐	125.000	11.307	631715.59	0.2872	P	3.2
5	☐	250.000	24.287	1042714.56	0.5117	P	9.0
6	☐	500.000	500.603	18190158.34	8.7503	A	0.5
7	☐	1000.000	1072.713	37882606.94	18.6460	A	1.6
8	☐			274543.96	0.1414	P	0.9

$$y = 0.0173 * x + 0.0916$$

$$R = 0.9771$$

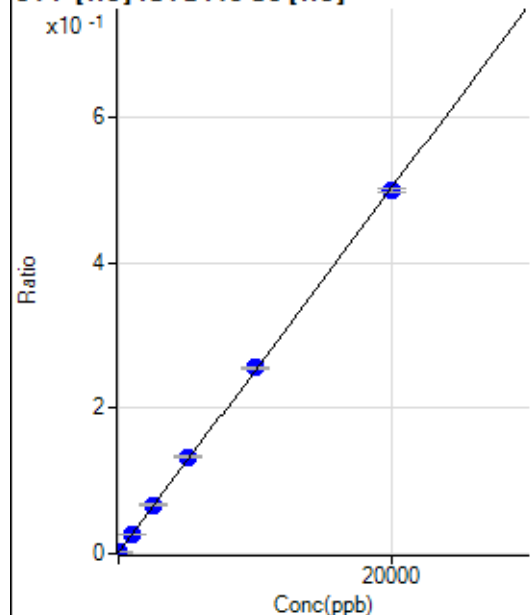
$$DL = 0.08647$$

$$BEC = 5.295$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-18.663	170.00	0.0010	P	10.4
2	☐	0.000	18.663	331.12	0.0019	P	6.1
3	☐	1000.000	1019.786	4770.79	0.0269	P	2.8
4	☐	2500.000	2619.379	11623.37	0.0670	P	1.5
5	☐	5000.000	5265.376	21919.08	0.1332	P	0.9
6	☐	10000.000	10139.087	41423.66	0.2552	P	1.7
7	☐	20000.000	19848.201	79872.42	0.4981	P	1.2
8	☐			193.34	0.0013	P	12.3

$$y = 2.5026E-005 * x + 0.0014$$

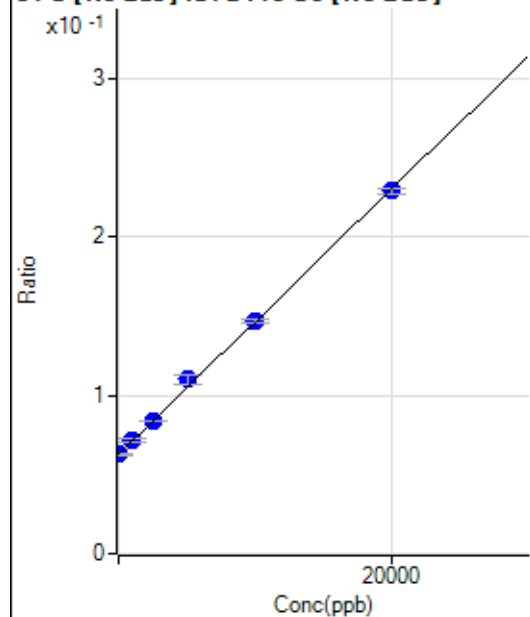
$$R = 0.9999$$

$$DL = 12.87$$

$$BEC = 56.99$$

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	-0.200	140853.28	0.0628	P	0.3
2	☐	0.000	0.200	139695.88	0.0628	P	0.9
3	☐	1000.000	1079.402	159661.67	0.0719	P	2.3
4	☐	2500.000	2510.331	184531.35	0.0839	P	1.2
5	☐	5000.000	5650.225	224990.17	0.1103	P	5.3
6	☐	10000.000	10011.061	305298.39	0.1469	P	1.4
7	☐	20000.000	19826.652	465848.54	0.2293	P	1.8
8	☐			117074.19	0.0603	P	1.8

$$y = 8.3970\text{E-}006 * x + 0.0628$$

$$R = 0.9994$$

$$DL = 132.9$$

$$BEC = 7480$$

Weight: <None>

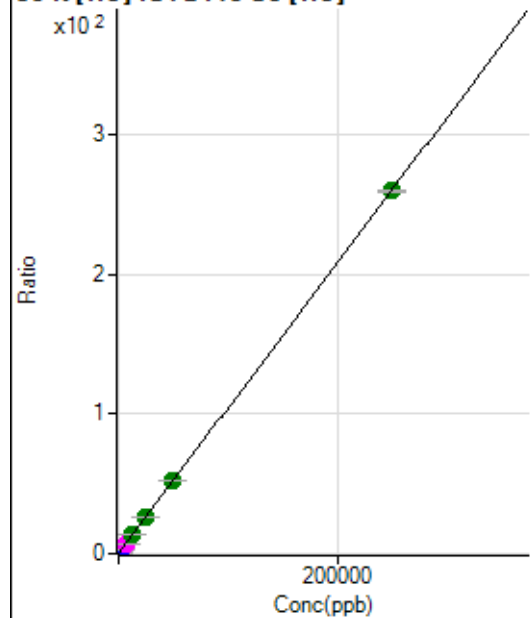
Min Conc: 0

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	38733.65	0.2185	P	0.4
2	☐	500.000	494.545	127911.70	0.7323	P	4.4
3	☐	2500.000	2709.332	537085.55	3.0335	P	0.3
4	☐	6250.000	6503.676	1210576.14	6.9759	M	3.9
5	☐	12500.000	12812.534	2226195.12	13.5310	A	3.1
6	☐	25000.000	25353.093	4312053.03	26.5609	A	1.4
7	☐	50000.000	50134.671	8387440.57	52.3095	A	1.3
8	☐	250000.00	249913.70	39199673.86	259.8842	A	0.5

$$y = 0.0010 * x + 0.2185$$

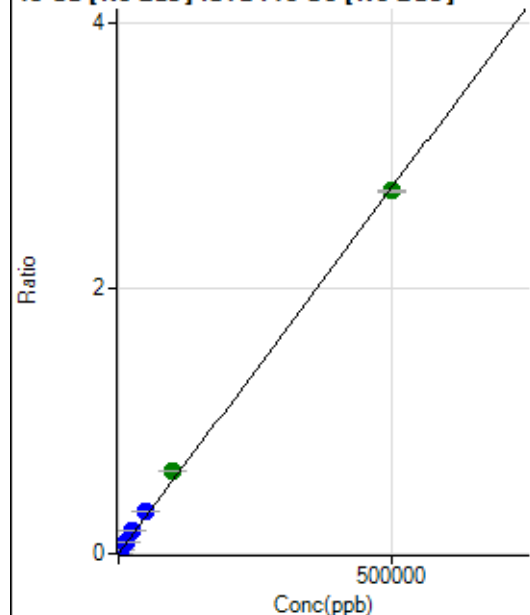
$$R = 1.0000$$

$$DL = 2.693$$

$$BEC = 210.3$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	442.23	0.0002	P	15.8
2	☐	500.000	490.326	6449.20	0.0029	P	2.1
3	☐	5000.000	6014.960	74076.08	0.0333	P	2.3
4	☐	12500.000	14990.488	182159.81	0.0828	P	0.6
5	☐	25000.000	31349.536	352879.55	0.1730	P	5.8
6	☐	50000.000	58720.853	673117.15	0.3238	P	0.6
7	☐	100000.00	112674.17	1261973.84	0.6211	A	1.4
8	☐	500000.00	496203.20	5310971.80	2.7347	A	0.6

$$y = 5.5109\text{E-}006 * x + 1.9715\text{E-}004$$

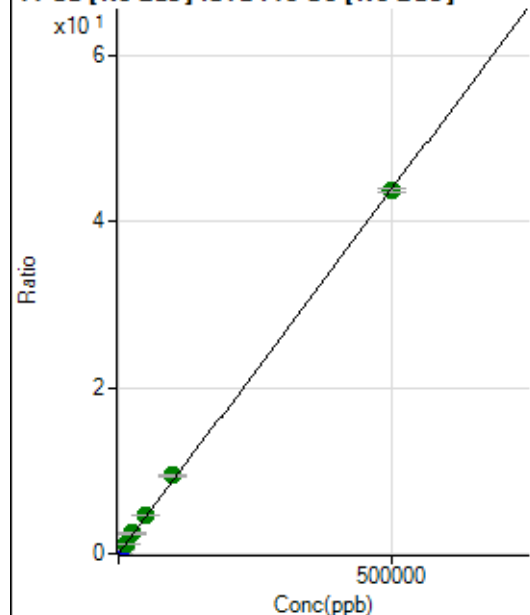
$$R = 0.9996$$

$$DL = 16.93$$

$$BEC = 35.78$$

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	5866.83	0.0026	P	0.8
2	☐	500.000	498.092	102998.65	0.0463	P	1.1
3	☐	5000.000	5732.271	1122957.29	0.5055	P	1.5
4	☐	12500.000	13600.309	2630282.22	1.1957	A	0.6
5	☐	25000.000	28422.231	5092155.72	2.4959	A	6.0
6	☐	50000.000	53410.124	9744634.86	4.6879	A	1.9
7	☐	100000.00	107208.96	19113441.38	9.4073	A	1.5
8	☐	500000.00	498011.25	84845982.07	43.6894	A	1.2

$$y = 8.7722\text{E-}005 * x + 0.0026$$

$$R = 0.9999$$

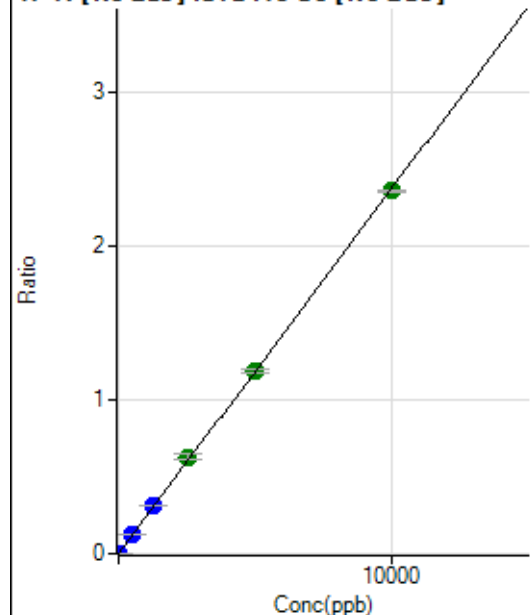
$$DL = 0.7509$$

$$BEC = 29.82$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	67.78	0.0000	P	13.6
2	☐	5.000	4.866	2636.93	0.0012	P	0.8
3	☐	500.000	517.930	273282.37	0.1230	P	1.5
4	☐	1250.000	1305.113	681731.74	0.3099	P	1.0
5	☐	2500.000	2659.292	1288031.61	0.6315	A	6.5
6	☐	5000.000	5014.508	2474970.12	1.1907	A	1.8
7	☐	10000.000	9945.138	4797964.83	2.3614	A	0.6
8	☐			1272.29	0.0007	P	11.1

$$y = 2.3744\text{E-}004 * x + 3.0206\text{E-}005$$

$$R = 0.9999$$

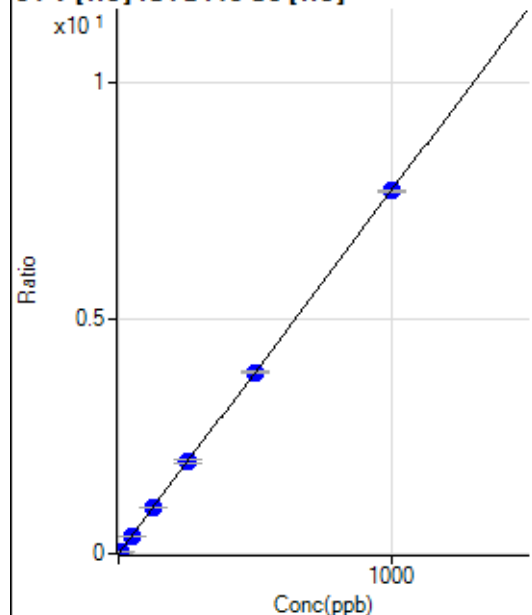
$$DL = 0.05206$$

$$BEC = 0.1272$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	4.733	6382.52	0.0365	P	2.7
3	☐	50.000	49.872	68081.39	0.3845	P	0.5
4	☐	125.000	125.439	167837.30	0.9672	P	0.3
5	☐	250.000	254.319	322624.44	1.9608	P	2.3
6	☐	500.000	499.945	625789.10	3.8546	P	0.8
7	☐	1000.000	998.901	1234905.49	7.7017	P	0.8
8	☐			401.12	0.0027	P	14.0

$$y = 0.0077 * x + 6.2027\text{E-}006$$

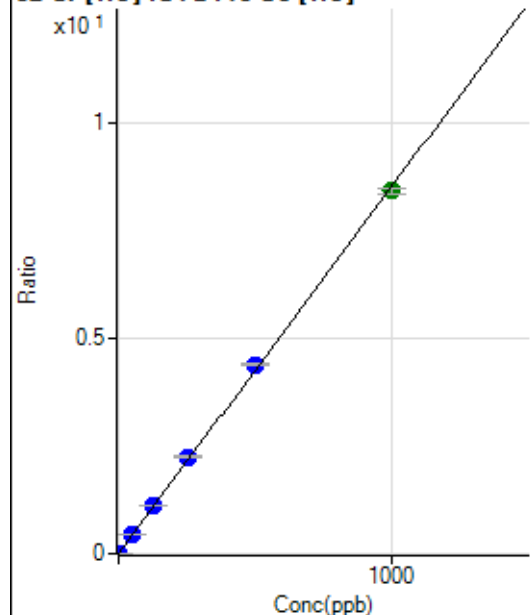
$$R = 1.0000$$

$$DL = 0.00418$$

$$BEC = 0.0008045$$

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	502.24	0.0028	P	6.0
2	☐	2.000	1.922	3355.96	0.0192	P	2.7
3	☐	50.000	51.851	78697.01	0.4445	P	0.6
4	☐	125.000	130.208	192962.79	1.1119	P	0.3
5	☐	250.000	262.833	368829.06	2.2416	P	2.2
6	☐	500.000	514.441	711855.36	4.3848	P	0.7
7	☐	1000.000	988.828	1350907.24	8.4256	A	1.9
8	☐			3398.19	0.0225	P	5.8

$$y = 0.0085 * x + 0.0028$$

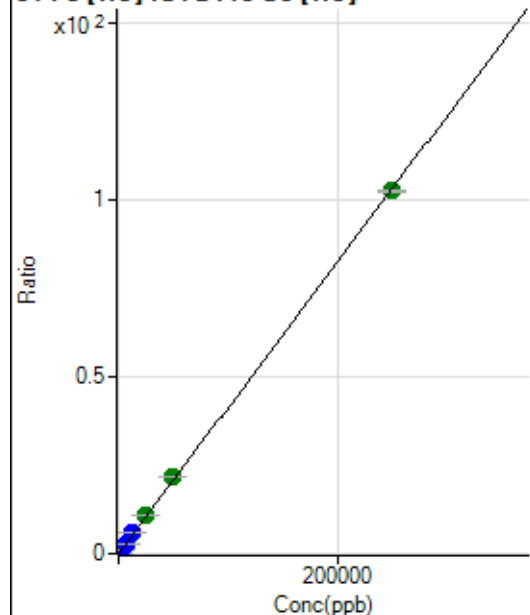
$$R = 0.9997$$

$$DL = 0.05945$$

$$BEC = 0.3327$$

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	1323.40	0.0075	P	7.5
2	☐	50.000	53.636	5154.26	0.0295	P	4.9
3	☐	2500.000	2845.329	208373.28	1.1769	P	0.4
4	☐	6250.000	7092.290	507147.65	2.9224	P	0.6
5	☐	12500.000	14371.637	973124.25	5.9143	P	2.1
6	☐	25000.000	26878.438	1794693.72	11.0546	A	1.1
7	☐	50000.000	52752.959	3477925.02	21.6892	A	0.8
8	☐	250000.00	249143.47	15446478.66	102.4066	A	0.8

$$y = 4.1100E-004 * x + 0.0075$$

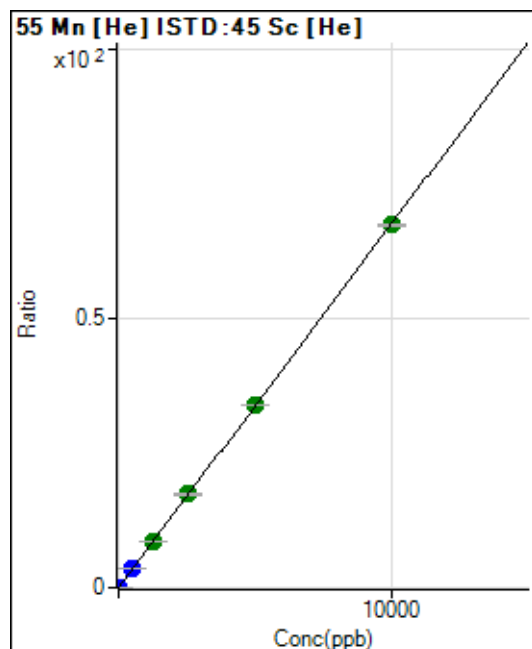
$$R = 0.9999$$

$$DL = 4.107$$

$$BEC = 18.17$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	98.89	0.0006	P	15.1
2	☐	1.000	0.956	1222.29	0.0070	P	14.6
3	☐	500.000	514.176	614944.17	3.4733	P	0.3
4	☐	1250.000	1260.918	1477983.00	8.5167	A	0.6
5	☐	2500.000	2573.444	2860005.16	17.3815	A	1.9
6	☐	5000.000	5017.549	5501825.82	33.8889	A	0.5
7	☐	10000.000	9970.791	10798241.02	67.3428	A	0.7
8	☐			5320.99	0.0353	P	4.5

$$y = 0.0068 * x + 5.5762E-004$$

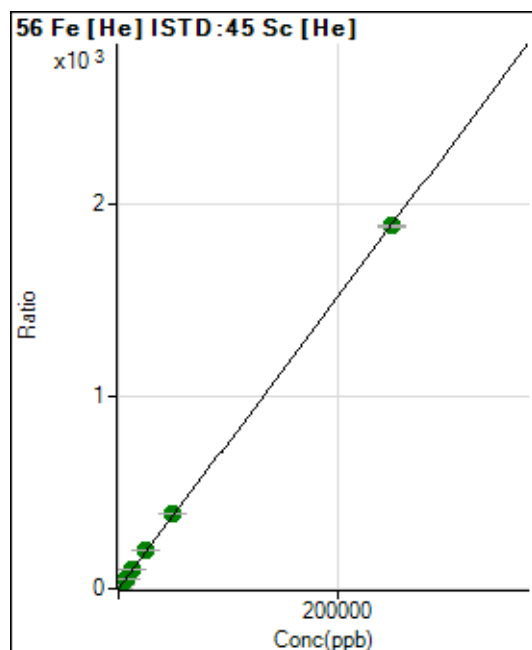
$$R = 1.0000$$

$$DL = 0.03731$$

$$BEC = 0.08256$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10839.54	0.0611	P	2.7
2	☐	50.000	51.411	78685.42	0.4505	P	4.9
3	☐	2500.000	2624.225	3530040.12	19.9378	A	0.3
4	☐	6250.000	6565.492	8640402.16	49.7900	A	0.2
5	☐	12500.000	13421.194	16736007.81	101.7171	A	2.3
6	☐	25000.000	26323.174	32377981.46	199.4403	A	1.1
7	☐	50000.000	51854.024	62985726.84	392.8182	A	1.0
8	☐	250000.00	249441.68	284989380.2	1,889.403	A	0.4

$$y = 0.0076 * x + 0.0611$$

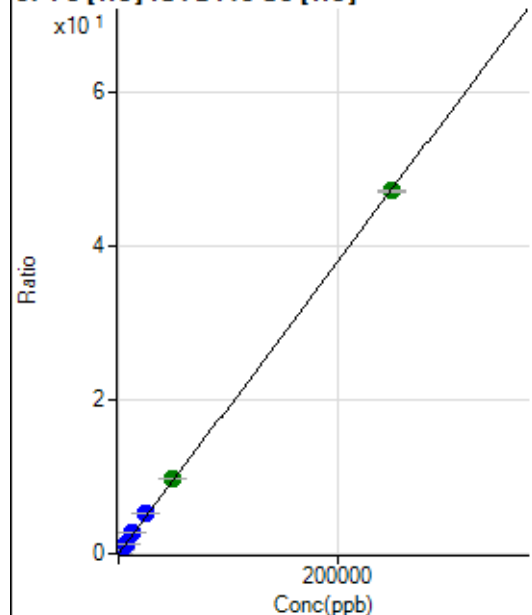
$$R = 1.0000$$

$$DL = 0.6527$$

$$BEC = 8.072$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	450.01	0.0025	P	4.5
2	☐	50.000	54.280	2237.97	0.0128	P	6.1
3	☐	2500.000	2785.942	93848.18	0.5301	P	1.3
4	☐	6250.000	6996.622	230351.69	1.3274	P	0.8
5	☐	12500.000	14073.044	438878.11	2.6674	P	2.3
6	☐	25000.000	27722.928	852661.14	5.2521	P	0.8
7	☐	50000.000	51638.779	1568255.23	9.7808	A	1.1
8	☐	250000.00	249299.77	7120843.78	47.2095	A	0.8

$$y = 1.8936E-004 * x + 0.0025$$

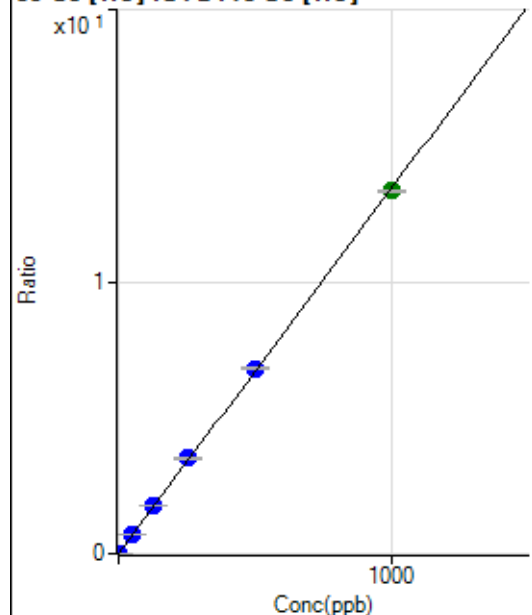
$$R = 0.9999$$

$$DL = 1.794$$

$$BEC = 13.41$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25.56	0.0001	P	19.4
2	☐	1.000	0.985	2337.98	0.0134	P	4.9
3	☐	50.000	51.701	123021.01	0.6949	P	0.8
4	☐	125.000	129.640	302321.40	1.7421	P	0.3
5	☐	250.000	261.675	578570.43	3.5163	P	1.9
6	☐	500.000	506.635	1105237.45	6.8078	P	0.6
7	☐	1000.000	993.099	2139678.91	13.3444	A	0.8
8	☐			5715.57	0.0379	P	3.8

$$y = 0.0134 * x + 1.4405E-004$$

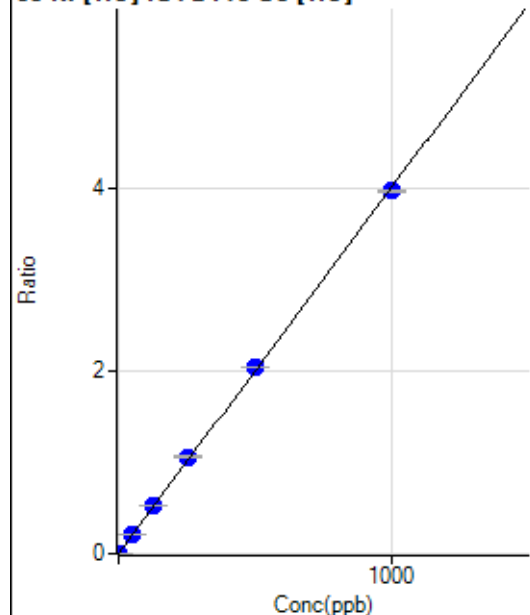
$$R = 0.9999$$

$$DL = 0.006251$$

$$BEC = 0.01072$$

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	153.50	0.0009	P	3.1
2	☐	1.000	1.006	854.70	0.0049	P	5.1
3	☐	50.000	52.820	37596.24	0.2123	P	0.3
4	☐	125.000	131.195	91306.10	0.5261	P	0.3
5	☐	250.000	263.252	173570.30	1.0549	P	1.9
6	☐	500.000	509.295	331188.85	2.0400	P	0.7
7	☐	1000.000	991.124	636427.71	3.9691	P	0.6
8	☐			1913.67	0.0127	P	3.6

$$y = 0.0040 * x + 8.6584E-004$$

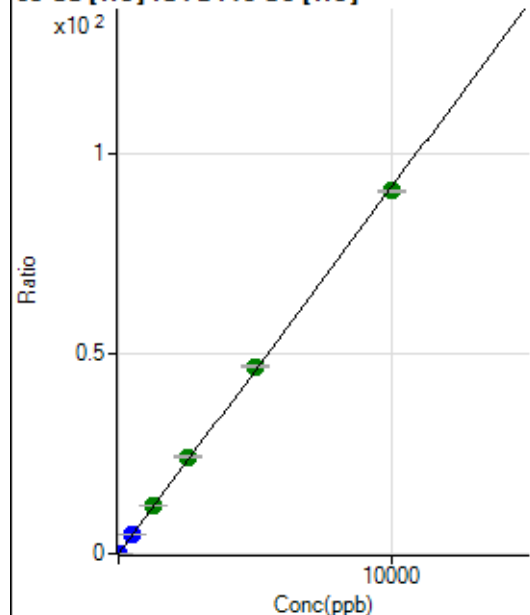
$$R = 0.9998$$

$$DL = 0.02036$$

$$BEC = 0.2163$$

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	519.25	0.0029	P	9.8
2	☐	2.000	1.793	3383.63	0.0194	P	4.7
3	☐	500.000	525.430	853637.54	4.8215	P	0.4
4	☐	1250.000	1311.660	2088008.56	12.0317	A	2.1
5	☐	2500.000	2637.199	3979801.37	24.1877	A	2.1
6	☐	5000.000	5115.035	7615914.78	46.9110	A	1.4
7	☐	10000.000	9899.204	14556880.25	90.7849	A	0.5
8	☐			4368.16	0.0290	P	7.9

$$y = 0.0092 * x + 0.0029$$

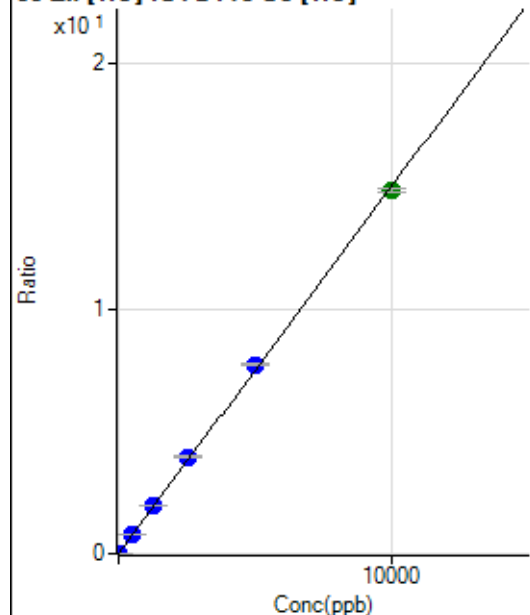
$$R = 0.9998$$

$$DL = 0.0942$$

$$BEC = 0.3195$$

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	361.12	0.0020	P	6.8
2	☐	2.000	1.678	796.70	0.0046	P	3.1
3	☐	500.000	522.534	139144.41	0.7859	P	1.6
4	☐	1250.000	1306.989	340615.32	1.9628	P	0.1
5	☐	2500.000	2636.412	651122.97	3.9572	P	1.8
6	☐	5000.000	5155.371	1255940.38	7.7361	P	0.7
7	☐	10000.000	9879.961	2376898.85	14.8239	A	0.9
8	☐			2000.16	0.0133	P	2.0

$$y = 0.0015 * x + 0.0020$$

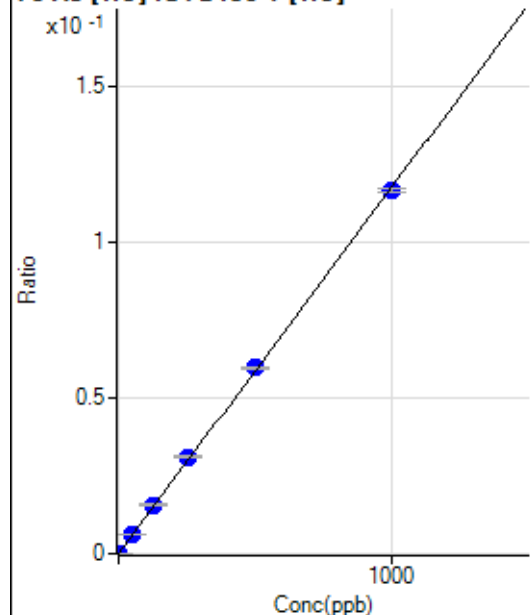
$$R = 0.9997$$

$$DL = 0.2786$$

$$BEC = 1.358$$

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	☐	1.000	1.207	212.23	0.0001	P	8.7
3	☐	50.000	52.916	9483.14	0.0062	P	2.4
4	☐	125.000	133.659	23387.38	0.0157	P	1.4
5	☐	250.000	264.063	44717.15	0.0311	P	1.9
6	☐	500.000	508.228	87199.69	0.0598	P	0.6
7	☐	1000.000	991.142	169491.97	0.1166	P	1.0
8	☐			72.22	0.0001	P	22.1

$$y = 1.1769E-004 * x + 7.3911E-007$$

$$R = 0.9998$$

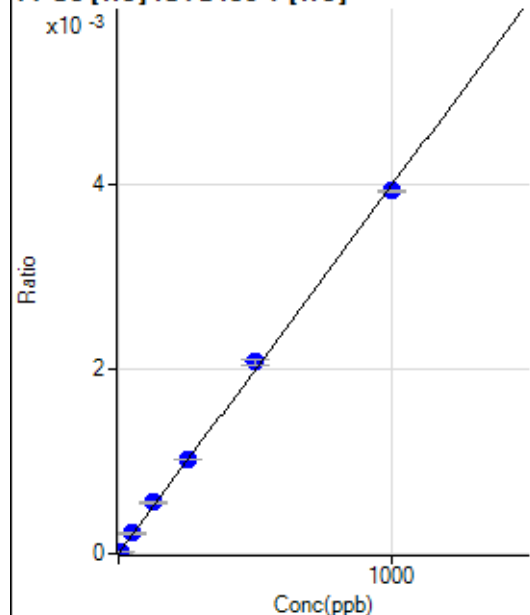
$$DL = 0.03263$$

$$BEC = 0.00628$$

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	2.22	0.0000	P	173.
2	☐	5.000	3.592	23.33	0.0000	P	19.0
3	☐	50.000	54.844	334.45	0.0002	P	3.2
4	☐	125.000	138.229	820.03	0.0006	P	2.5
5	☐	250.000	257.140	1474.53	0.0010	P	0.9
6	☐	500.000	520.538	3021.45	0.0021	P	3.0
7	☐	1000.000	986.057	5703.37	0.0039	P	0.7
8	☐			35.56	0.0000	P	14.2

$$y = 3.9790\text{E-}006 * x + 1.4474\text{E-}006$$

$$R = 0.9996$$

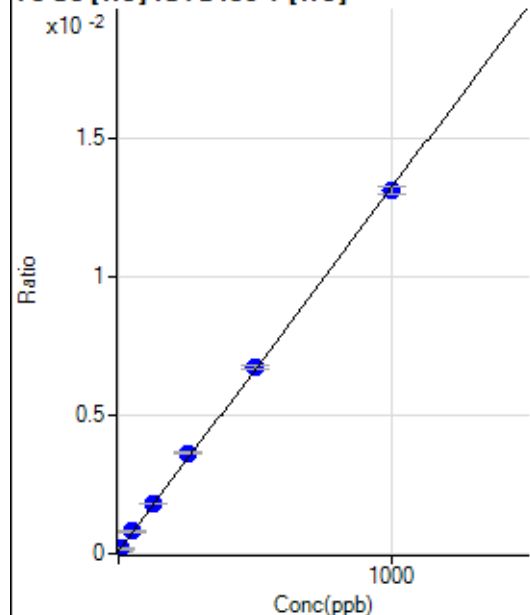
$$DL = 1.89$$

$$BEC = 0.3638$$

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	135.56	0.0001	P	8.4
2	☐	5.000	6.839	266.67	0.0002	P	11.4
3	☐	50.000	55.362	1241.17	0.0008	P	9.5
4	☐	125.000	130.701	2681.38	0.0018	P	3.0
5	☐	250.000	270.662	5236.53	0.0036	P	1.4
6	☐	500.000	504.899	9783.31	0.0067	P	1.8
7	☐	1000.000	991.395	19022.35	0.0131	P	2.2
8	☐			202.23	0.0002	P	12.4

$$y = 1.3114\text{E-}005 * x + 8.9121\text{E-}005$$

$$R = 0.9998$$

$$DL = 1.712$$

$$BEC = 6.796$$

Weight: <None>

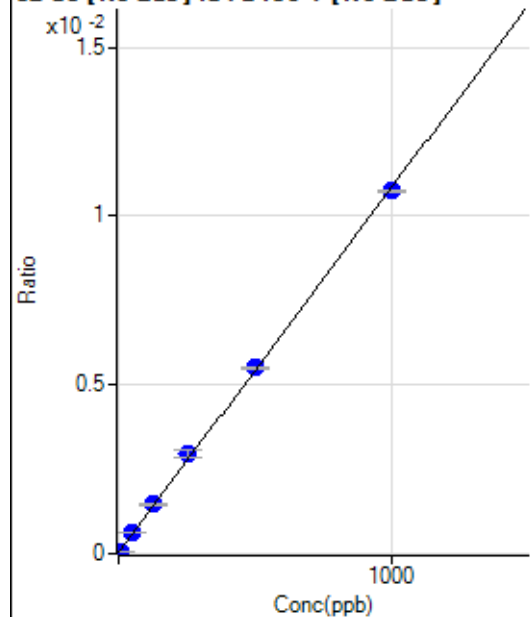
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			26886.76		P	1.7
2	☐			26129.91		P	0.5
3	☐			25719.17		P	0.3
4	☐			24781.98		P	1.4
5	☐			24835.48		P	1.0
6	☐			23386.39		P	0.4
7	☐			23322.97		P	1.3
8	☐			22639.69		P	1.9

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			85.56		P	17.6
2	☐			107.78		P	12.5
3	☐			100.00		P	29.1
4	☐			92.22		P	11.0
5	☐			81.11		P	33.2
6	☐			67.78		P	36.9
7	☐			83.33		P	31.2
8	☐			175.56		P	19.5

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	228.39	0.0000	P	10.0
2	☐	5.000	3.987	511.37	0.0001	P	4.5
3	☐	50.000	53.147	3980.99	0.0006	P	1.2
4	☐	125.000	131.512	9403.28	0.0015	P	1.4
5	☐	250.000	270.460	18249.68	0.0030	P	7.1
6	☐	500.000	505.560	34233.47	0.0055	P	1.1
7	☐	1000.000	991.139	66372.65	0.0107	P	0.8
8	☐			588.00	0.0001	P	2.7

$$y = 1.0809E-005 * x + 3.4879E-005$$

$$R = 0.9997$$

$$DL = 0.9721$$

$$BEC = 3.227$$

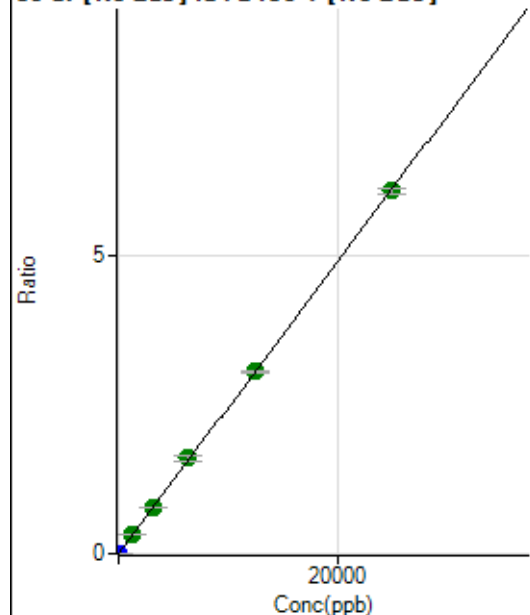
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			111.12		P	12.1
2	☐			113.33		P	12.8
3	☐			97.78		P	13.8
4	☐			116.67		P	22.7
5	☐			118.89		P	19.9
6	☐			107.78		P	23.4
7	☐			106.67		P	25.0
8	☐			151.11		P	5.1

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	233.34	0.0000	P	10.7
2	☐	1.000	0.843	1583.44	0.0002	P	0.9
3	☐	1250.000	1264.393	2016460.04	0.3086	A	0.6
4	☐	3125.000	3171.019	4997434.58	0.7740	A	0.7
5	☐	6250.000	6560.160	9877785.27	1.6011	A	7.1
6	☐	12500.000	12503.141	18996842.91	3.0516	A	0.9
7	☐	25000.000	24914.418	37547029.72	6.0808	A	1.7
8	☐			9320.82	0.0016	P	9.9

$$y = 2.4407E-004 * x + 3.5639E-005$$

$$R = 0.9999$$

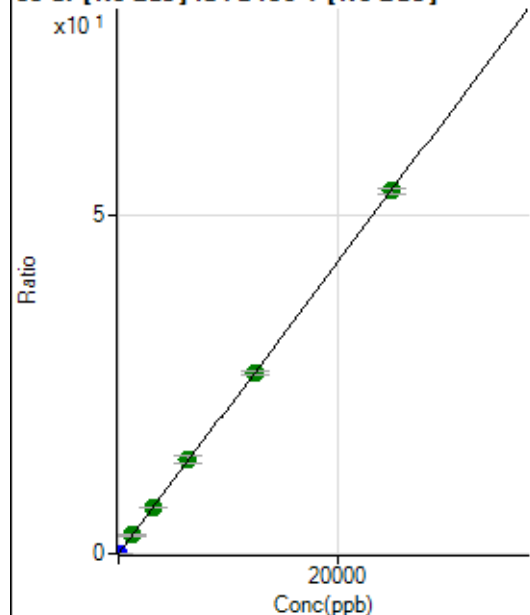
$$DL = 0.04675$$

$$BEC = 0.146$$

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	402.23	0.0001	P	10.8
2	☐	1.000	0.889	12940.23	0.0020	P	1.7
3	☐	1250.000	1256.686	17662089.60	2.7033	A	0.7
4	☐	3125.000	3167.398	43991542.68	6.8134	A	1.2
5	☐	6250.000	6506.590	86339960.93	13.9962	A	7.2
6	☐	12500.000	12449.945	166701929.7	26.7808	A	1.5
7	☐	25000.000	24955.246	331469701.7	53.6807	A	1.7
8	☐			81372.06	0.0140	P	11.0

$$y = 0.0022 * x + 6.1428E-005$$

$$R = 0.9999$$

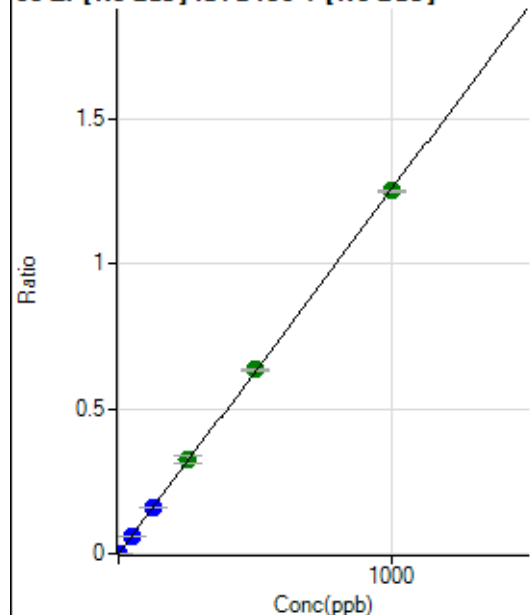
$$DL = 0.009265$$

$$BEC = 0.02856$$

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	245.56	0.0000	P	9.7
2	☐	1.000	0.866	7374.14	0.0011	P	2.7
3	☐	50.000	48.989	402073.10	0.0615	P	0.7
4	☐	125.000	124.536	1009766.60	0.1564	P	0.8
5	☐	250.000	257.020	1989545.59	0.3227	A	8.6
6	☐	500.000	504.532	3943459.04	0.6335	A	0.6
7	☐	1000.000	996.088	7723101.13	1.2506	A	0.3
8	☐			4491.84	0.0008	P	7.2

$$y = 0.0013 * x + 3.7510E-005$$

$$R = 1.0000$$

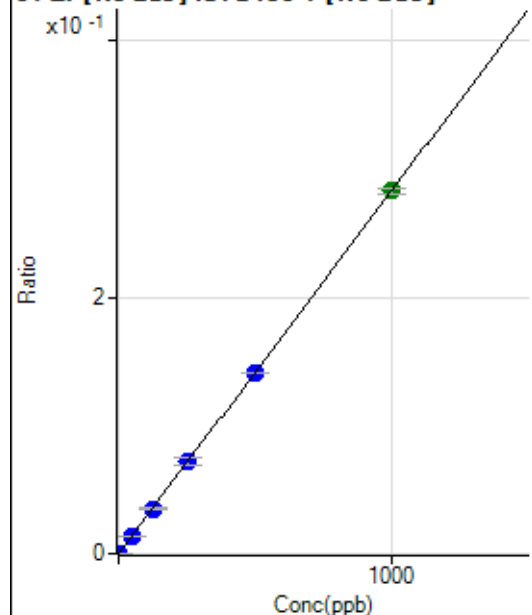
$$DL = 0.00866$$

$$BEC = 0.02988$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	47.78	0.0000	P	16.9
2	☐	1.000	0.862	1646.78	0.0003	P	2.8
3	☐	50.000	48.857	90365.79	0.0138	P	0.4
4	☐	125.000	124.401	227318.85	0.0352	P	0.6
5	☐	250.000	254.262	443689.74	0.0719	P	8.0
6	☐	500.000	497.762	876795.17	0.1408	P	0.4
7	☐	1000.000	1000.186	1747456.45	0.2830	A	1.7
8	☐			1052.27	0.0002	P	7.1

$$y = 2.8294E-004 * x + 7.2900E-006$$

$$R = 1.0000$$

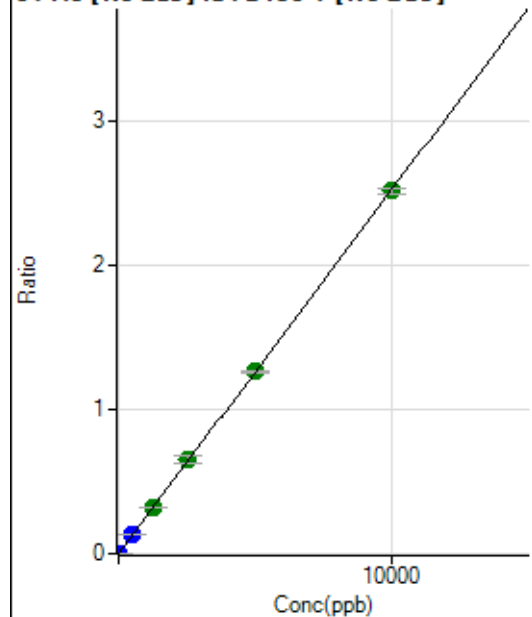
$$DL = 0.0131$$

$$BEC = 0.02577$$

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	107.78	0.0000	P	15.9
2	☐	5.000	5.165	8658.18	0.0013	P	3.4
3	☐	500.000	505.457	833632.75	0.1276	P	0.9
4	☐	1250.000	1262.616	2057830.28	0.3187	A	0.7
5	☐	2500.000	2582.917	4020671.92	0.6520	A	8.0
6	☐	5000.000	4999.713	7856071.90	1.2620	A	0.5
7	☐	10000.000	9977.565	15550802.27	2.5184	A	1.7
8	☐			5568.89	0.0010	P	6.7

$$y = 2.5240\text{E-}004 * x + 1.6460\text{E-}005$$

$$R = 1.0000$$

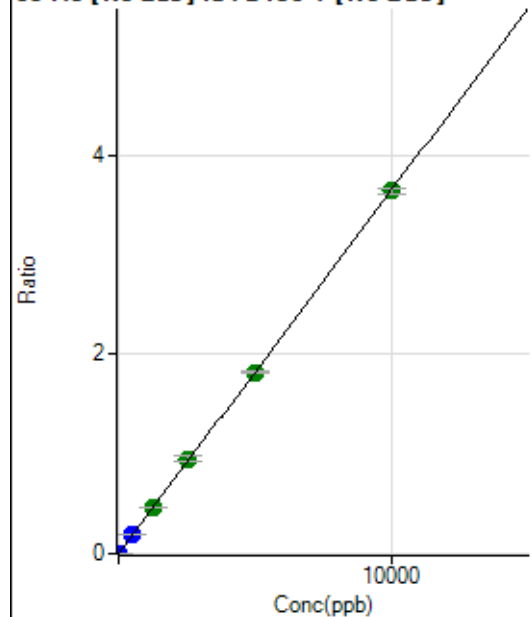
$$DL = 0.03114$$

$$BEC = 0.06521$$

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	27.9
2	☐	5.000	4.410	10582.81	0.0016	P	2.9
3	☐	500.000	504.187	1201141.69	0.1838	P	0.6
4	☐	1250.000	1263.243	2974003.67	0.4606	A	1.6
5	☐	2500.000	2615.412	5882747.90	0.9536	A	7.3
6	☐	5000.000	4981.369	11306674.14	1.8163	A	0.8
7	☐	10000.000	9978.598	22468318.55	3.6384	A	1.3
8	☐			6269.17	0.0011	P	7.6

$$y = 3.6462\text{E-}004 * x + 5.4223\text{E-}006$$

$$R = 0.9999$$

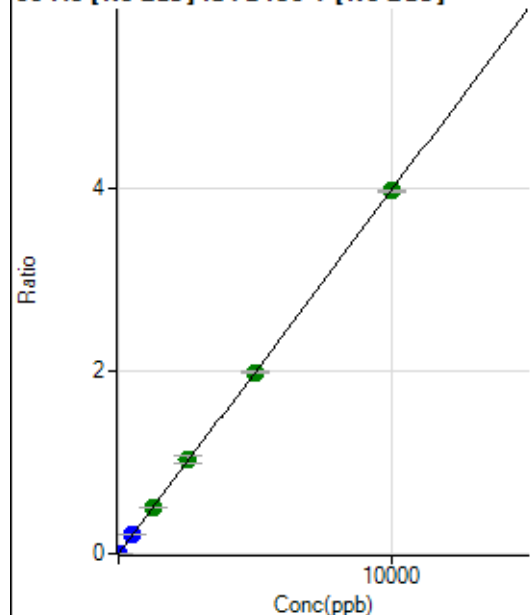
$$DL = 0.01247$$

$$BEC = 0.01487$$

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	74.44	0.0000	P	14.2
2	☐	5.000	4.498	11799.28	0.0018	P	2.6
3	☐	500.000	507.106	1316612.08	0.2015	P	0.7
4	☐	1250.000	1266.107	3248656.83	0.5031	A	0.1
5	☐	2500.000	2608.483	6393584.49	1.0365	A	7.5
6	☐	5000.000	4977.654	12312708.84	1.9780	A	0.9
7	☐	10000.000	9981.684	24493574.91	3.9664	A	0.8
8	☐			14977.79	0.0026	P	2.2

$$y = 3.9737E-004 * x + 1.1372E-005$$

R = 0.9999

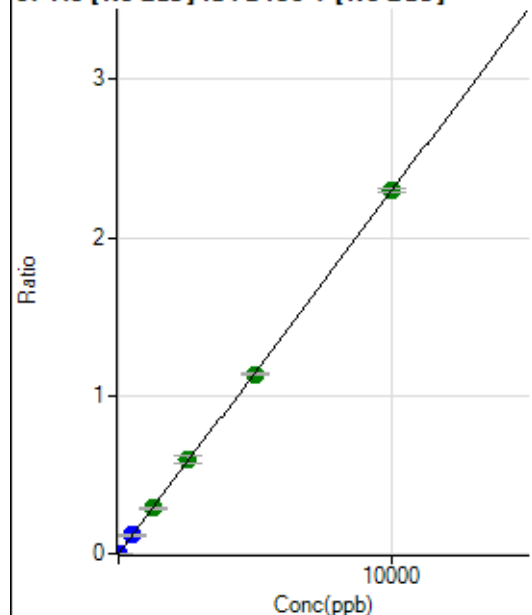
DL = 0.01221

BEC = 0.02862

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	28.89	0.0000	P	13.4
2	☐	5.000	4.312	6520.39	0.0010	P	3.3
3	☐	500.000	505.239	757733.79	0.1160	P	0.8
4	☐	1250.000	1255.043	1860050.53	0.2881	A	1.7
5	☐	2500.000	2582.833	3655800.29	0.5929	A	8.3
6	☐	5000.000	4954.344	7079622.39	1.1372	A	1.1
7	☐	10000.000	10001.228	14176521.31	2.2957	A	0.9
8	☐			4012.82	0.0007	P	9.7

$$y = 2.2954E-004 * x + 4.4111E-006$$

R = 0.9999

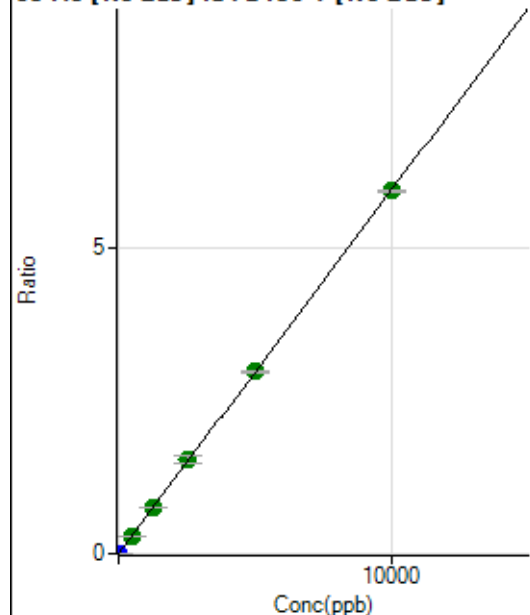
DL = 0.00773

BEC = 0.01922

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	52.22	0.0000	P	37.4
2	☐	5.000	4.314	16905.43	0.0026	P	1.6
3	☐	500.000	495.934	1929721.76	0.2954	A	0.9
4	☐	1250.000	1253.856	4821472.60	0.7467	A	1.3
5	☐	2500.000	2573.433	9451751.94	1.5326	A	7.8
6	☐	5000.000	5007.246	18564673.20	2.9821	A	0.4
7	☐	10000.000	9977.740	36696496.95	5.9423	A	0.7
8	☐			10109.18	0.0017	P	13.7

$$y = 5.9556\text{E-}004 * x + 7.9877\text{E-}006$$

$$R = 1.0000$$

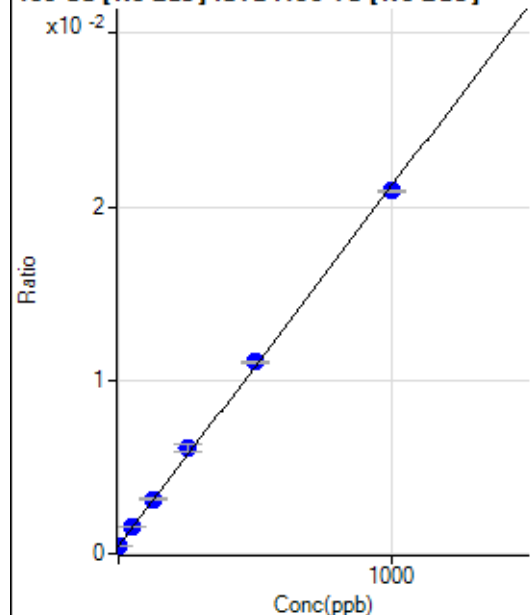
$$DL = 0.01504$$

$$BEC = 0.01341$$

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	2621.38	0.0004	P	3.5
2	☐	1.000	1.666	2832.52	0.0005	P	1.5
3	☐	50.000	53.520	9317.52	0.0015	P	1.8
4	☐	125.000	130.744	18985.85	0.0031	P	1.5
5	☐	250.000	272.413	35006.58	0.0061	P	6.3
6	☐	500.000	512.892	65034.67	0.0111	P	1.0
7	☐	1000.000	987.056	123884.78	0.0209	P	0.6
8	☐			2415.78	0.0004	P	0.7

$$y = 2.0754\text{E-}005 * x + 4.3119\text{E-}004$$

$$R = 0.9996$$

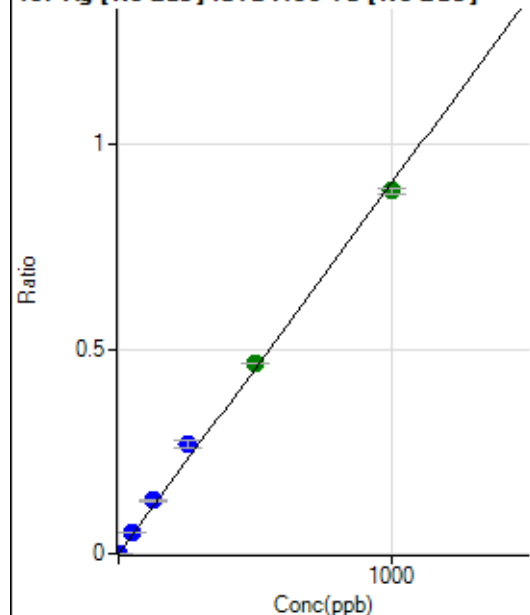
$$DL = 2.199$$

$$BEC = 20.78$$

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	43.33	0.0000	P	16.5
2	☐	1.000	0.948	5263.22	0.0009	P	3.2
3	☐	50.000	57.955	317231.23	0.0525	P	0.5
4	☐	125.000	143.360	783911.70	0.1298	P	0.8
5	☐	250.000	294.169	1532399.04	0.2664	P	6.7
6	☐	500.000	513.268	2729559.34	0.4648	A	0.7
7	☐	1000.000	979.631	5254392.25	0.8872	A	1.6
8	☐			1632.33	0.0003	P	13.0

$$y = 9.0563\text{E-}004 * x + 7.1345\text{E-}006$$

$$R = 0.9987$$

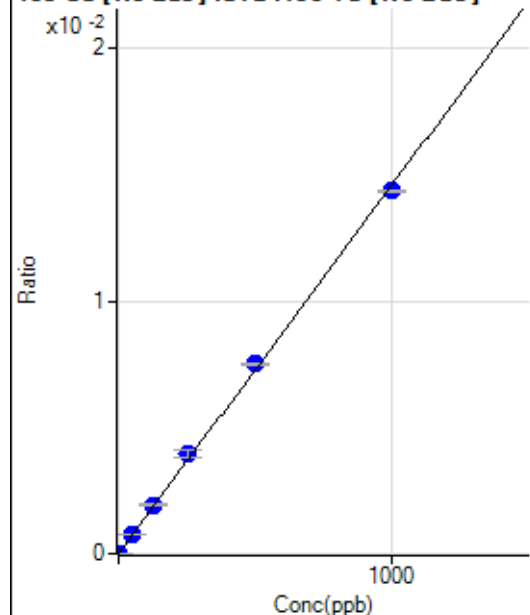
$$DL = 0.003896$$

$$BEC = 0.007878$$

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	6.67	0.0000	P	50.0
2	☐	1.000	0.991	94.44	0.0000	P	10.5
3	☐	50.000	54.204	4777.49	0.0008	P	1.9
4	☐	125.000	132.420	11650.30	0.0019	P	2.0
5	☐	250.000	272.395	22829.15	0.0040	P	6.6
6	☐	500.000	514.854	44034.40	0.0075	P	1.8
7	☐	1000.000	985.837	85043.95	0.0144	P	0.9
8	☐			72.22	0.0000	P	20.4

$$y = 1.4564\text{E-}005 * x + 1.0983\text{E-}006$$

$$R = 0.9995$$

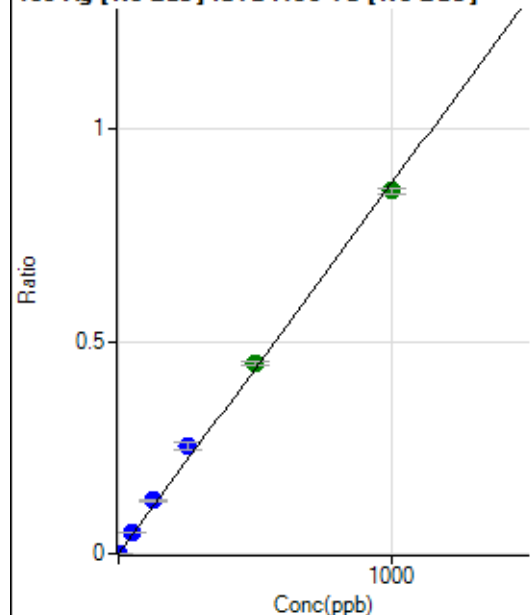
$$DL = 0.1132$$

$$BEC = 0.07541$$

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	13.33	0.0000	P	51.1
2	☐	1.000	0.966	5132.07	0.0008	P	2.2
3	☐	50.000	57.562	303115.56	0.0502	P	0.6
4	☐	125.000	142.832	751428.98	0.1245	P	0.7
5	☐	250.000	290.734	1457441.00	0.2533	P	6.1
6	☐	500.000	514.649	2633227.49	0.4484	A	1.5
7	☐	1000.000	979.885	5056577.56	0.8538	A	1.3
8	☐			1535.66	0.0003	P	12.8

$$y = 8.7132\text{E-}004 * x + 2.2002\text{E-}006$$

$$R = 0.9988$$

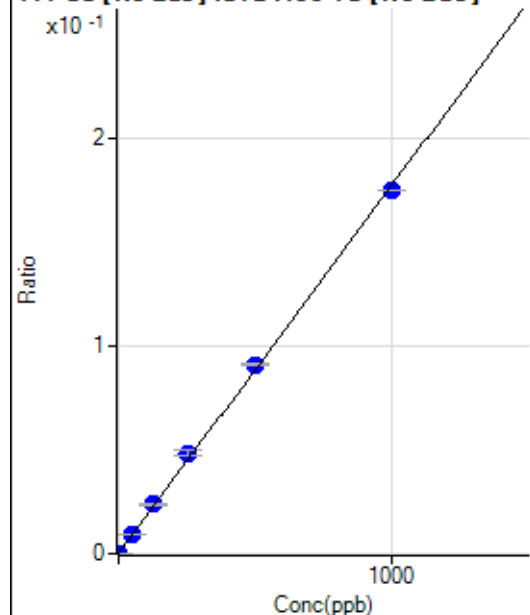
$$DL = 0.003874$$

$$BEC = 0.002525$$

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	522.94	0.0001	P	4.2
2	☐	1.000	1.078	1686.01	0.0003	P	2.2
3	☐	50.000	53.995	58422.43	0.0097	P	0.9
4	☐	125.000	133.220	143253.45	0.0237	P	0.6
5	☐	250.000	273.746	279972.11	0.0487	P	6.1
6	☐	500.000	513.726	535794.57	0.0912	P	1.5
7	☐	1000.000	985.973	1036855.92	0.1751	P	0.1
8	☐			1072.62	0.0002	P	4.1

$$y = 1.7745\text{E-}004 * x + 8.6016\text{E-}005$$

$$R = 0.9995$$

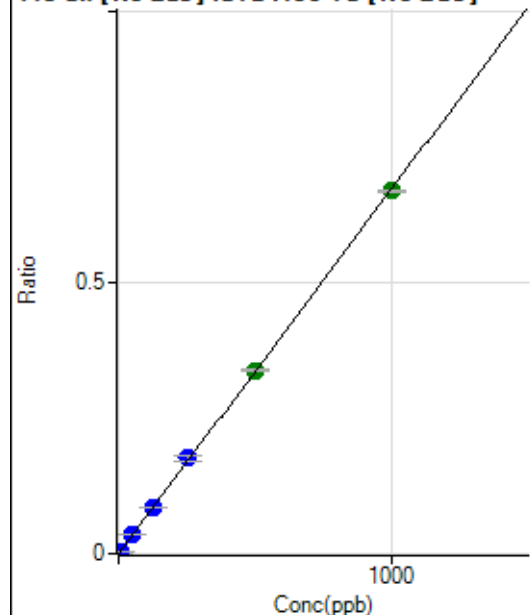
$$DL = 0.06083$$

$$BEC = 0.4847$$

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	353.34	0.0001	P	9.0
2	☐	5.000	4.616	19198.41	0.0032	P	2.6
3	☐	50.000	51.143	207841.38	0.0344	P	0.8
4	☐	125.000	127.624	517668.61	0.0857	P	0.3
5	☐	250.000	262.581	1014303.38	0.1763	P	6.7
6	☐	500.000	502.766	1982204.85	0.3376	A	1.7
7	☐	1000.000	995.089	3957221.95	0.6681	A	0.8
8	☐			2220.20	0.0004	P	7.2

$$y = 6.7134\text{E-}004 * x + 5.8099\text{E-}005$$

$$R = 0.9999$$

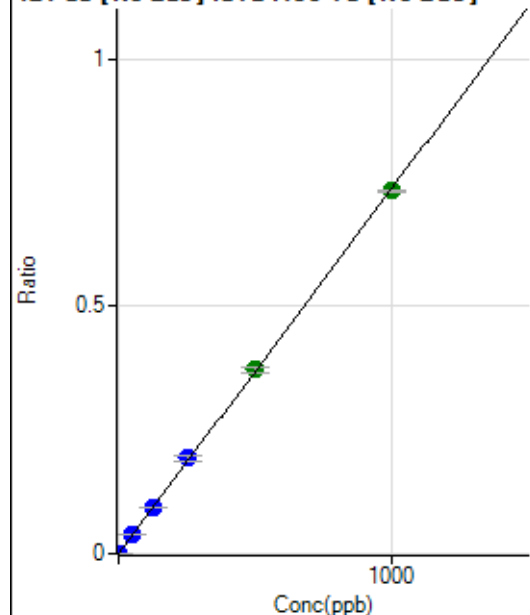
$$DL = 0.02331$$

$$BEC = 0.08654$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	15.56	0.0000	P	12.7
2	☐	2.000	1.824	8186.84	0.0013	P	2.1
3	☐	50.000	50.576	225162.59	0.0373	P	1.1
4	☐	125.000	127.764	568278.36	0.0941	P	0.5
5	☐	250.000	262.331	1111692.35	0.1933	P	6.4
6	☐	500.000	503.733	2178644.43	0.3711	A	2.4
7	☐	1000.000	994.677	4340101.60	0.7327	A	0.2
8	☐			2824.75	0.0005	P	4.4

$$y = 7.3666\text{E-}004 * x + 2.5593\text{E-}006$$

$$R = 0.9999$$

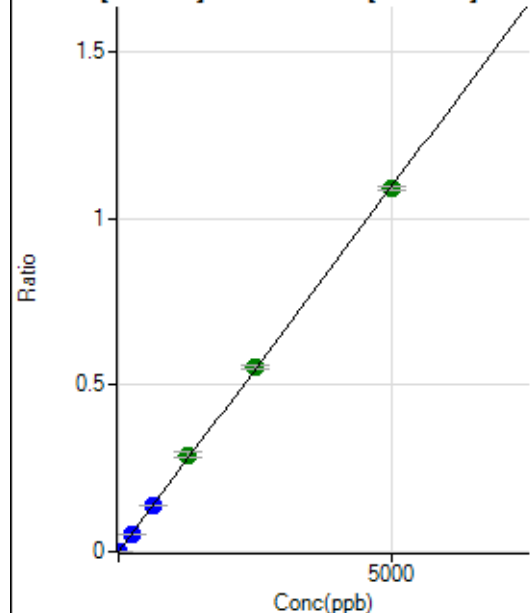
$$DL = 0.001328$$

$$BEC = 0.003474$$

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	23.33	0.0000	P	44.0
2	☐	10.000	8.952	11942.87	0.0020	P	1.6
3	☐	250.000	248.348	328591.41	0.0544	P	1.0
4	☐	625.000	624.853	825981.51	0.1368	P	0.7
5	☐	1250.000	1330.030	1675009.49	0.2912	A	6.6
6	☐	2500.000	2521.864	3241663.74	0.5521	A	2.0
7	☐	5000.000	4969.164	6443124.14	1.0879	A	1.2
8	☐			4026.17	0.0007	P	4.6

$$y = 2.1893\text{E-}004 * x + 3.8479\text{E-}006$$

$$R = 0.9998$$

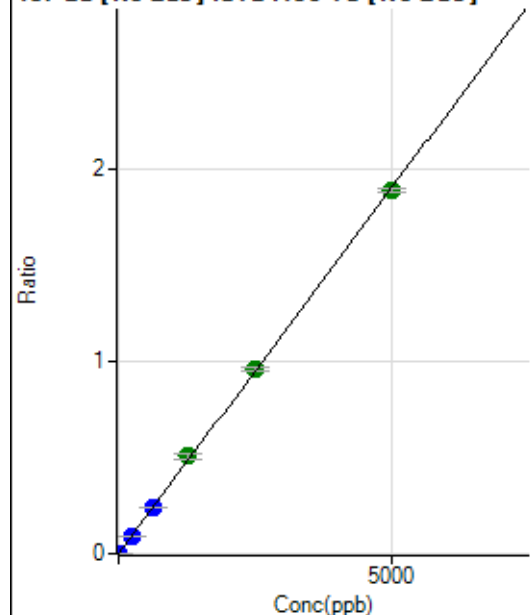
$$DL = 0.02321$$

$$BEC = 0.01758$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.67	0.0000	P	24.7
2	☐	10.000	9.034	20913.23	0.0034	P	1.8
3	☐	250.000	247.766	569027.31	0.0942	P	0.6
4	☐	625.000	625.770	1435775.38	0.2378	P	0.8
5	☐	1250.000	1338.708	2926602.35	0.5087	A	6.2
6	☐	2500.000	2531.633	5649117.21	0.9621	A	1.7
7	☐	5000.000	4962.024	11167852.89	1.8856	A	1.0
8	☐			7052.92	0.0013	P	5.0

$$y = 3.8001\text{E-}004 * x + 6.0361\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.01175$$

$$BEC = 0.01588$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			4.44		P	114.
3	☐			53.33		P	31.2
4	☐			152.23		P	13.2
5	☐			252.23		P	35.5
6	☐			508.90		P	3.2
7	☐			953.37		P	4.7
8	☐			201.12		P	17.3

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			3.33		P	100.
3	☐			11.11		P	69.3
4	☐			22.22		P	17.3
5	☐			51.11		P	13.6
6	☐			96.67		P	15.8
7	☐			200.00		P	16.9
8	☐			108.89		P	6.4

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐			3.33		P	100.
3	☐			26.67		P	33.1
4	☐			56.67		P	21.2
5	☐			106.67		P	24.8
6	☐			188.89		P	10.8
7	☐			390.01		P	16.3
8	☐			1075.61		P	8.0

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			2.22		P	86.6
3	☐			17.78		P	21.7
4	☐			43.33		P	53.8
5	☐			95.56		P	34.9
6	☐			198.89		P	20.1
7	☐			386.68		P	2.3
8	☐			685.58		P	10.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			28.89		P	17.6
2	☐			18.89		P	10.2
3	☐			25.55		P	27.1
4	☐			51.11		P	7.5
5	☐			103.34		P	14.8
6	☐			183.34		P	6.6
7	☐			306.67		P	8.7
8	☐			1167.84		P	8.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			144.45		P	10.9
2	☐			144.45		P	3.5
3	☐			148.89		P	20.2
4	☐			152.23		P	6.3
5	☐			178.89		P	20.6
6	☐			202.23		P	15.3
7	☐			296.67		P	13.2
8	☐			862.26		P	4.3

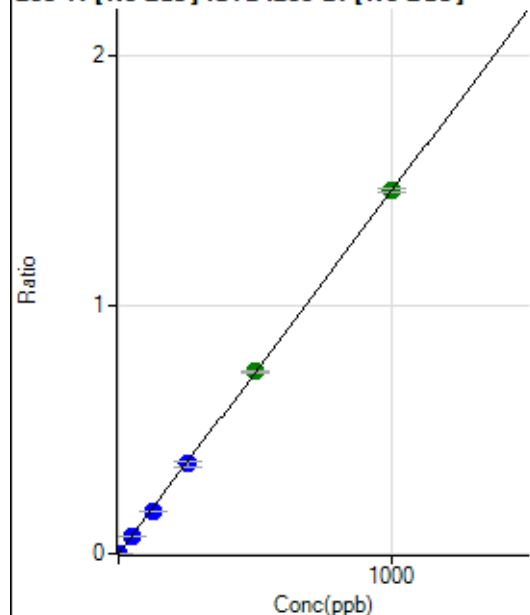
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			46.67		P	25.8
2	☐			36.67		P	48.1
3	☐			35.55		P	30.1
4	☐			48.89		P	27.5
5	☐			58.89		P	18.2
6	☐			83.33		P	12.0
7	☐			146.67		P	25.6
8	☐			142.23		P	1.4

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	39.0
2	☐			35.55		P	47.2
3	☐			26.67		P	43.3
4	☐			36.67		P	32.8
5	☐			31.11		P	16.4
6	☐			55.55		P	6.9
7	☐			96.67		P	30.6
8	☐			107.78		P	20.1

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0000	P	32.7
2	☐	1.000	0.844	4161.79	0.0012	P	2.6
3	☐	50.000	46.764	227389.92	0.00682	P	0.8
4	☐	125.000	118.091	575745.36	0.01721	P	0.8
5	☐	250.000	247.268	1139542.13	0.3604	P	6.3
6	☐	500.000	502.660	2415536.33	0.7327	A	1.2
7	☐	1000.000	1000.378	4693844.20	1.4582	A	0.9
8	☐			968.93	0.0004	P	22.9

$$y = 0.0015 * x + 7.8318E-006$$

$$R = 1.0000$$

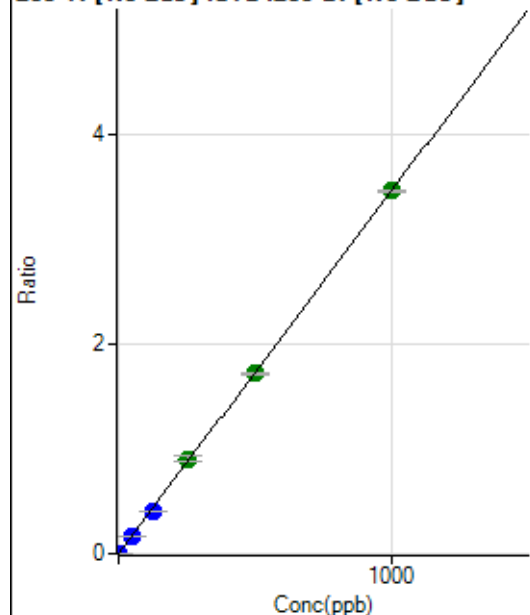
$$DL = 0.005274$$

$$BEC = 0.005373$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	70.00	0.0000	P	29.8
2	☐	1.000	0.827	9706.88	0.0029	P	2.7
3	☐	50.000	46.507	537436.81	0.01611	P	0.6
4	☐	125.000	117.197	1357905.69	0.04060	P	0.9
5	☐	250.000	261.796	2866273.78	0.9069	A	7.2
6	☐	500.000	496.506	5670143.53	1.7200	A	1.1
7	☐	1000.000	999.948	11150190.39	3.4640	A	0.7
8	☐			2164.64	0.0008	P	13.2

$$y = 0.0035 * x + 2.0587E-005$$

$$R = 0.9999$$

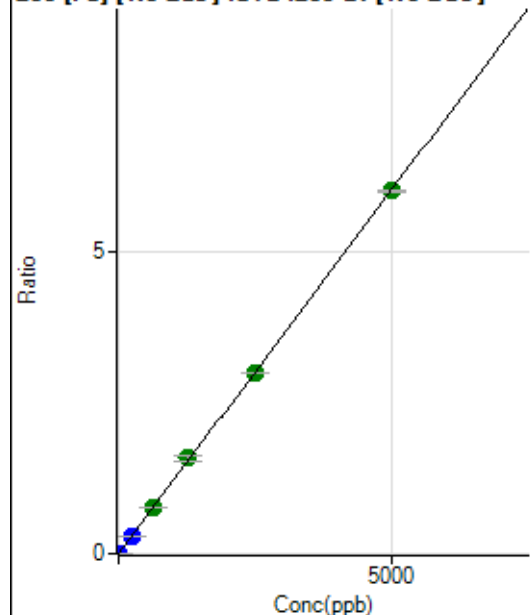
$$DL = 0.005309$$

$$BEC = 0.005943$$

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	92.23	0.0000	P	22.9
2	☐	1.000	0.826	3429.36	0.0010	P	4.5
3	☐	250.000	234.378	940415.74	0.2819	P	0.7
4	☐	625.000	629.493	2532469.23	0.7572	A	1.1
5	☐	1250.000	1319.709	5019689.34	1.5874	A	5.8
6	☐	2500.000	2489.243	9871257.00	2.9942	A	0.6
7	☐	5000.000	4988.171	19312931.66	6.0000	A	0.4
8	☐			8831.83	0.0033	P	5.9

$$y = 0.0012 * x + 2.7093E-005$$

$$R = 0.9999$$

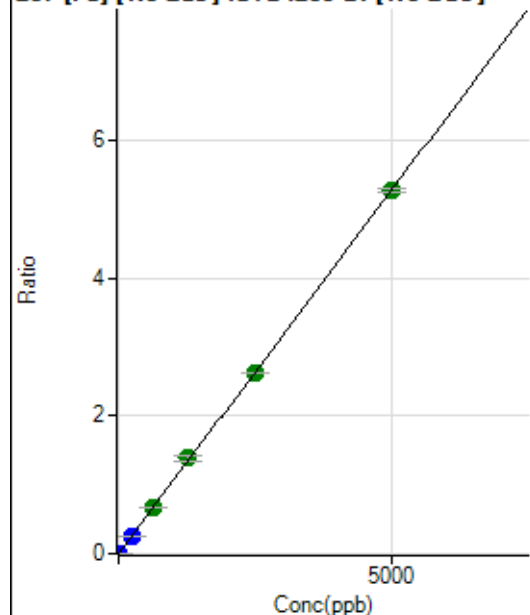
$$DL = 0.01545$$

$$BEC = 0.02252$$

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	85.56	0.0000	P	9.4
2	☐	1.000	0.778	2849.21	0.0008	P	3.6
3	☐	250.000	232.778	820323.80	0.2459	P	0.8
4	☐	625.000	628.131	2219512.80	0.6636	A	0.9
5	☐	1250.000	1319.987	4409089.03	1.3945	A	6.2
6	☐	2500.000	2481.694	8643389.87	2.6218	A	0.3
7	☐	5000.000	4992.126	16976325.30	5.2740	A	1.1
8	☐			7746.72	0.0029	P	8.0

$$y = 0.0011 * x + 2.5149E-005$$

$$R = 0.9999$$

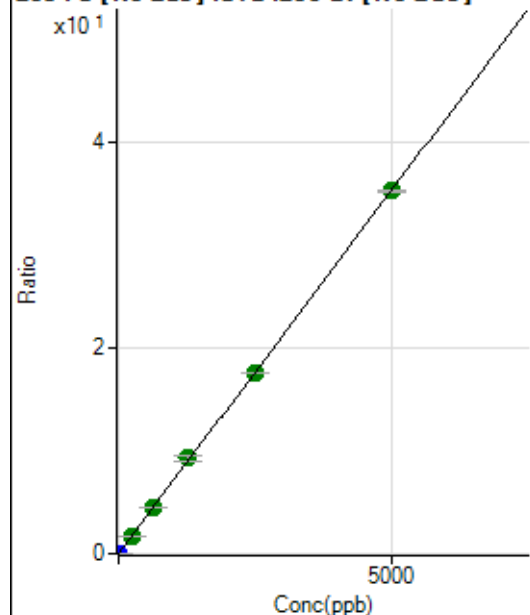
$$DL = 0.006738$$

$$BEC = 0.0238$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	575.56	0.0002	P	12.3
2	☐	1.000	0.807	19716.87	0.0059	P	3.3
3	☐	250.000	238.877	5625284.30	1.6865	A	0.4
4	☐	625.000	627.651	14819448.53	4.4310	A	0.8
5	☐	1250.000	1315.941	29372786.71	9.2898	A	6.0
6	☐	2500.000	2481.199	57742992.75	17.5158	A	0.5
7	☐	5000.000	4993.140	113458640.8	35.2484	A	0.6
8	☐			51664.30	0.0192	P	6.5

$$y = 0.0071 * x + 1.6912E-004$$

$$R = 0.9999$$

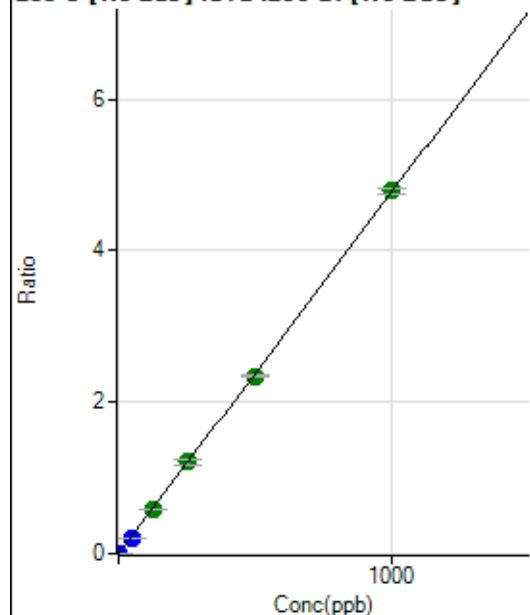
$$DL = 0.00887$$

$$BEC = 0.02396$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	57.1
2	☐	1.000	0.788	12637.18	0.0038	P	4.1
3	☐	50.000	43.756	696082.13	0.2087	P	0.7
4	☐	125.000	120.866	1927977.53	0.5765	A	1.6
5	☐	250.000	254.858	3843189.70	1.2155	A	6.1
6	☐	500.000	490.425	7710365.02	2.3390	A	1.3
7	☐	1000.000	1004.402	15419742.96	4.7904	A	1.3
8	☐			3927.29	0.0015	P	8.1

$$y = 0.0048 * x + 2.9227E-006$$

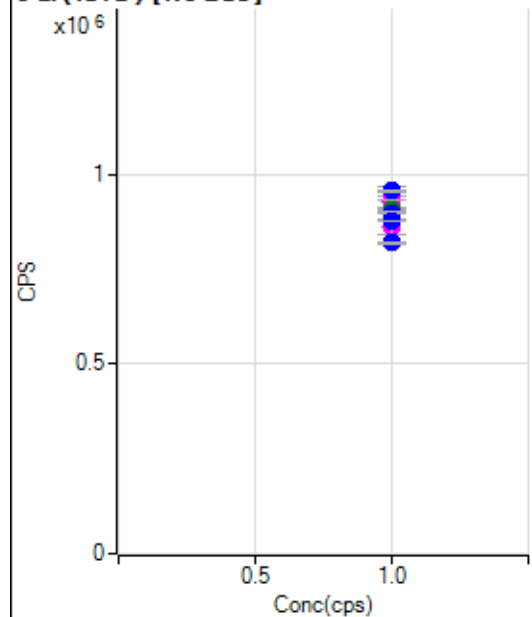
$$R = 0.9999$$

$$DL = 0.00105$$

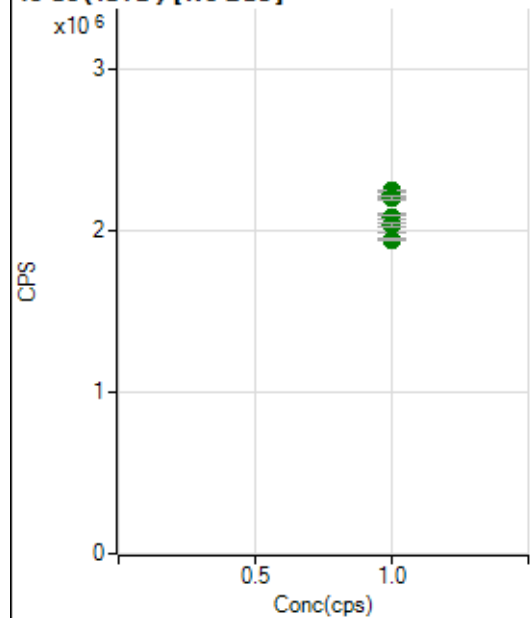
$$BEC = 0.0006128$$

Weight: <None>

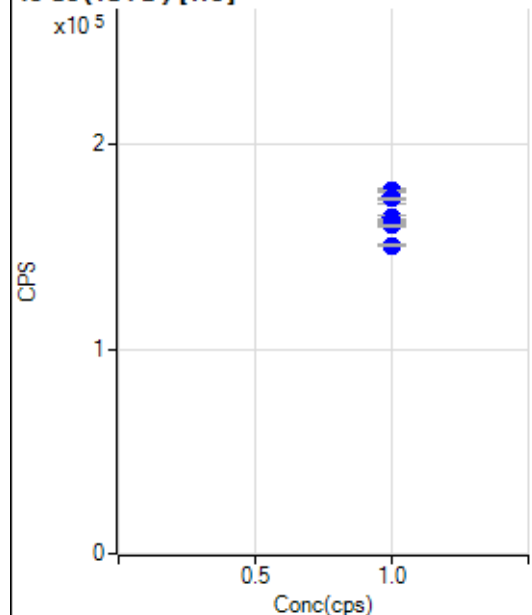
Min Conc: 0

6 Li (ISTD) [No Gas]

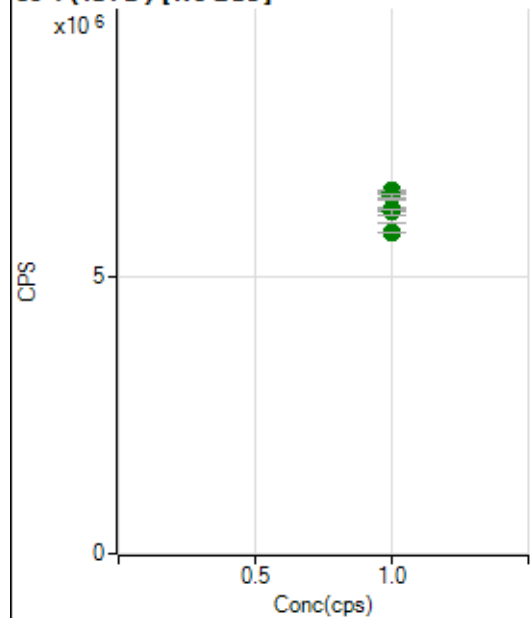
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		928557.91		M	3.5
2	☐	1.000		953095.15		M	3.7
3	☐	1.000		907345.70		A	0.5
4	☐	1.000		957376.99		P	0.7
5	☐	1.000		863846.82		M	5.0
6	☐	1.000		899516.64		P	0.5
7	☐	1.000		877947.83		P	0.3
8	☐	1.000		820498.63		P	0.4

45 Sc (ISTD) [No Gas]

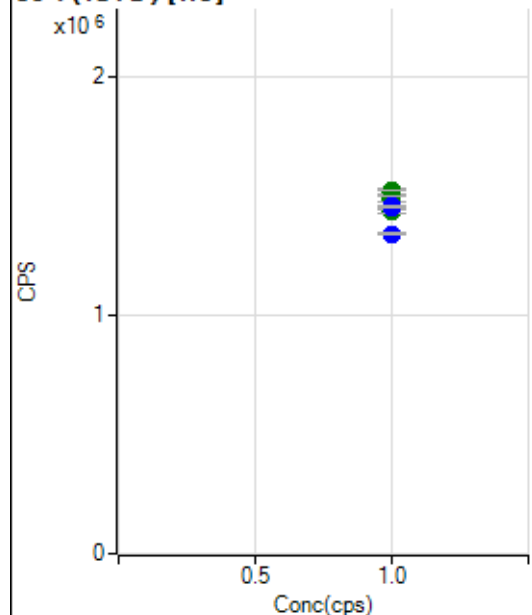
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2242576.27		A	0.6
2	☐	1.000		2224152.59		A	0.9
3	☐	1.000		2222073.82		A	2.0
4	☐	1.000		2199847.63		A	1.0
5	☐	1.000		2044613.11		A	5.6
6	☐	1.000		2078855.44		A	1.1
7	☐	1.000		2031829.08		A	0.7
8	☐	1.000		1942100.56		A	0.6

45 Sc (ISTD) [He]

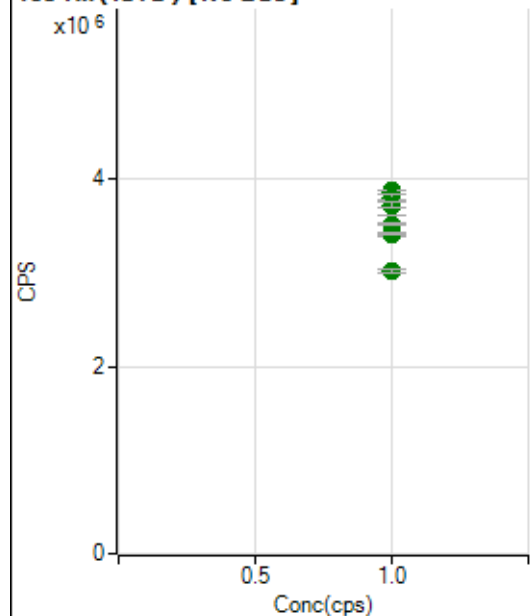
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		177308.33		P	0.8
2	☐	1.000		174897.57		P	4.4
3	☐	1.000		177052.73		P	0.7
4	☐	1.000		173537.05		P	0.3
5	☐	1.000		164572.71		P	1.5
6	☐	1.000		162352.17		P	0.7
7	☐	1.000		160348.71		P	0.7
8	☐	1.000		150835.15		P	0.2

89 Y (ISTD) [No Gas]

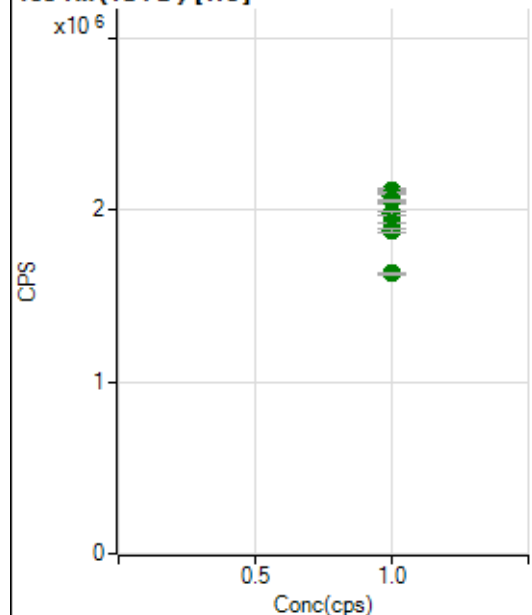
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6550165.18		A	0.8
2	☐	1.000		6559283.51		A	0.7
3	☐	1.000		6533651.15		A	0.7
4	☐	1.000		6457086.29		A	0.9
5	☐	1.000		6189494.35		A	7.0
6	☐	1.000		6225385.88		A	1.2
7	☐	1.000		6175789.77		A	1.6
8	☐	1.000		5805066.02		A	0.2

89 Y (ISTD) [He]

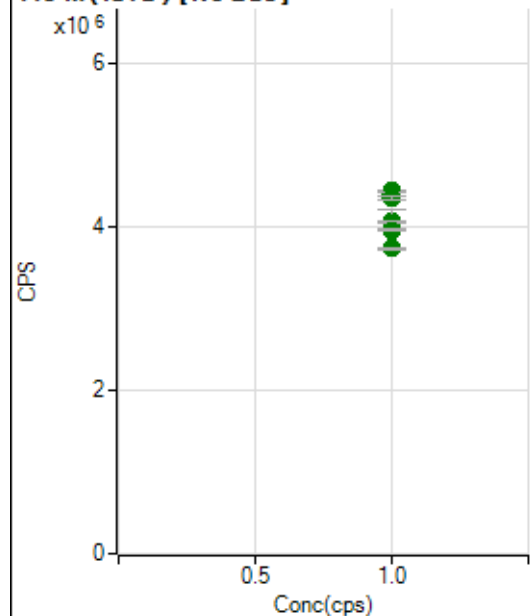
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1520973.76		A	1.1
2	☐	1.000		1490969.72		A	4.9
3	☐	1.000		1522554.60		A	0.1
4	☐	1.000		1486619.21		A	1.6
5	☐	1.000		1439110.90		A	1.3
6	☐	1.000		1457907.76		P	0.6
7	☐	1.000		1453096.23		P	0.5
8	☐	1.000		1340313.78		P	0.6

103 Rh (ISTD) [No Gas]

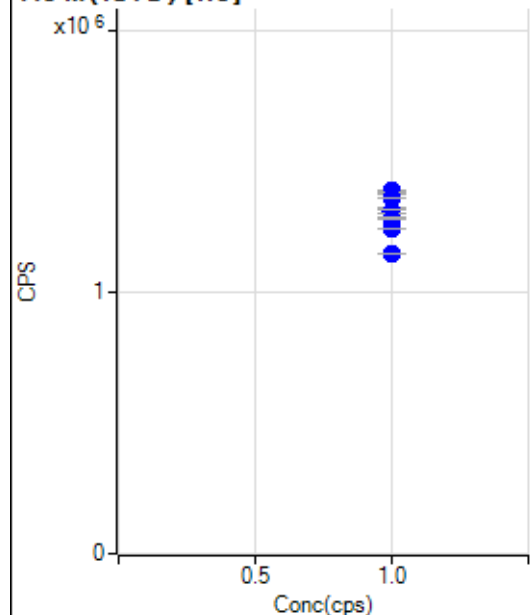
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3854876.23		A	0.9
2	☐	1.000		3873474.00		A	0.1
3	☐	1.000		3801276.23		A	1.6
4	☐	1.000		3720259.25		A	1.5
5	☐	1.000		3501133.87		A	6.2
6	☐	1.000		3512538.25		A	0.5
7	☐	1.000		3415830.19		A	0.7
8	☐	1.000		3022623.25		A	1.1

103 Rh (ISTD) [He]

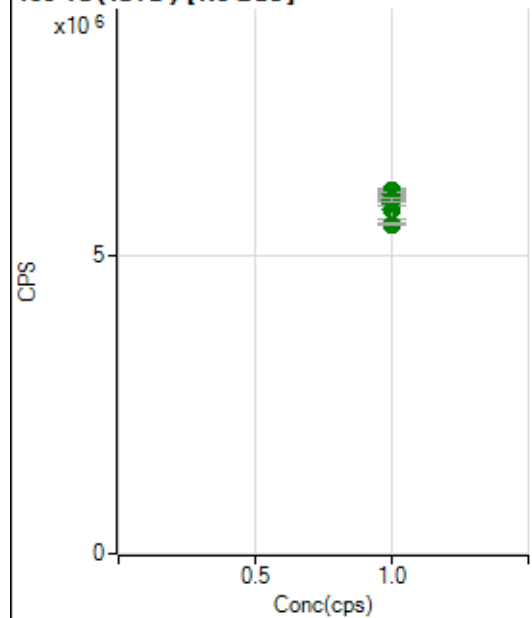
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2109264.64		A	0.8
2	☐	1.000		2082494.02		A	4.5
3	☐	1.000		2092991.04		A	0.3
4	☐	1.000		2051987.52		A	1.0
5	☐	1.000		1978542.54		A	1.5
6	☐	1.000		1923393.27		A	0.2
7	☐	1.000		1881102.58		A	1.2
8	☐	1.000		1628240.32		A	0.9

115 In (ISTD) [No Gas]

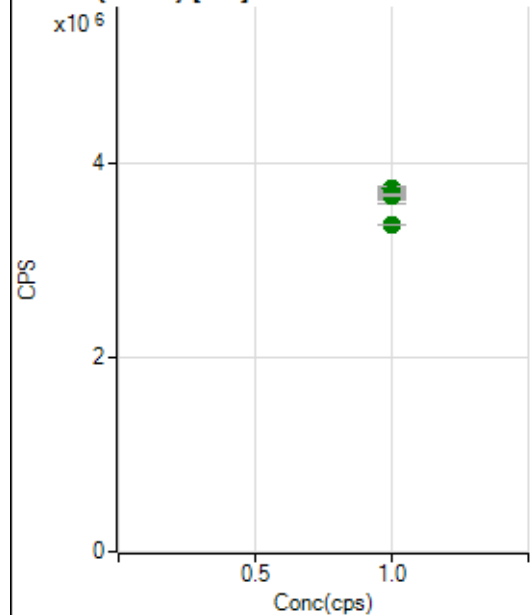
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4412579.88		A	0.3
2	☐	1.000		4432884.72		A	0.6
3	☐	1.000		4390562.56		A	1.1
4	☐	1.000		4343177.85		A	0.8
5	☐	1.000		4068963.94		A	6.5
6	☐	1.000		4052367.87		A	1.1
7	☐	1.000		3955310.00		A	1.0
8	☐	1.000		3725067.60		A	0.9

115 In (ISTD) [He]

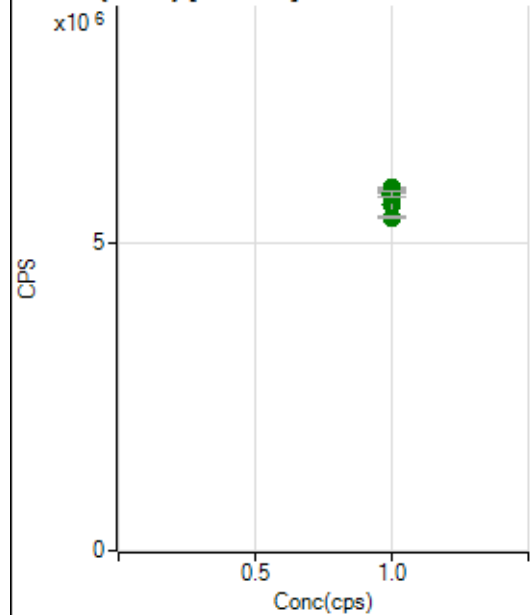
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1388346.58		P	0.7
2	☐	1.000		1359211.23		P	4.8
3	☐	1.000		1380757.24		P	0.2
4	☐	1.000		1360529.31		P	0.2
5	☐	1.000		1310325.48		P	1.4
6	☐	1.000		1283631.50		P	0.2
7	☐	1.000		1243058.62		P	0.4
8	☐	1.000		1147788.08		P	0.6

159 Tb (ISTD) [No Gas]

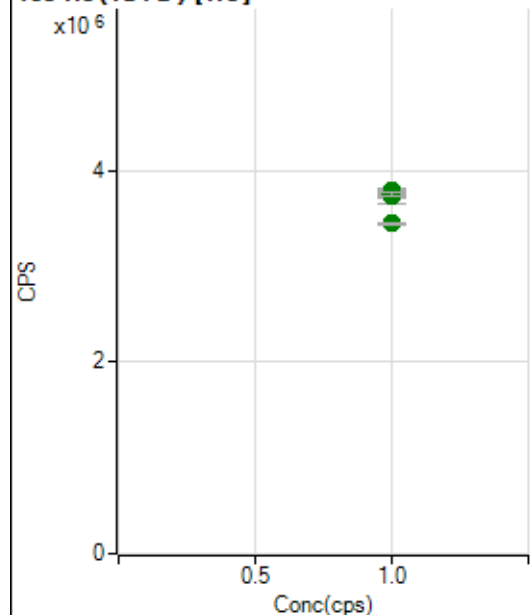
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6080768.73		A	1.5
2	☐	1.000		6081619.70		A	0.5
3	☐	1.000		6043483.80		A	1.0
4	☐	1.000		6037913.31		A	0.9
5	☐	1.000		5766178.80		A	5.6
6	☐	1.000		5872437.83		A	1.5
7	☐	1.000		5923123.18		A	1.3
8	☐	1.000		5522484.64		A	0.7

159 Tb (ISTD) [He]

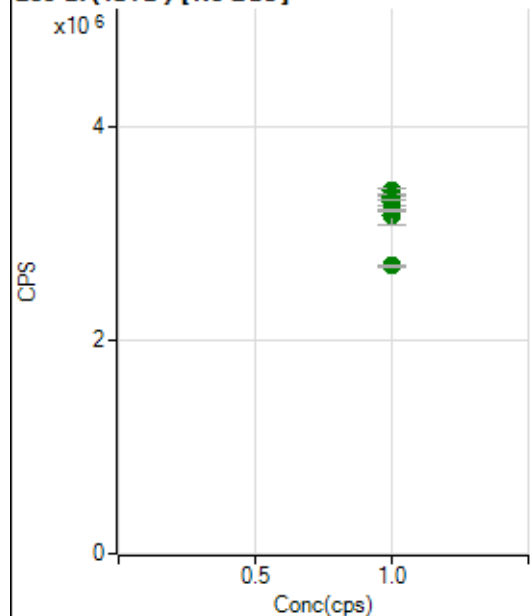
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3712669.77		A	0.3
2	☐	1.000		3673194.18		A	4.4
3	☐	1.000		3731002.38		A	0.5
4	☐	1.000		3738644.60		A	1.0
5	☐	1.000		3660106.65		A	1.6
6	☐	1.000		3672324.18		A	1.0
7	☐	1.000		3678796.02		A	0.7
8	☐	1.000		3370045.82		A	0.3

165 Ho (ISTD) [No Gas]

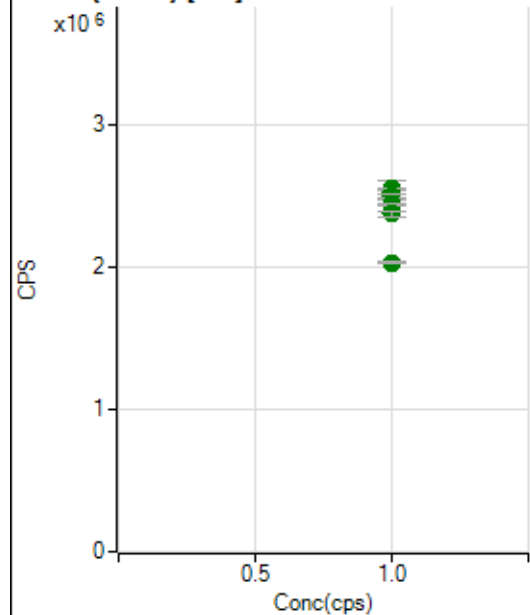
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5874326.93		A	1.1
2	☐	1.000		5899756.93		A	0.0
3	☐	1.000		5857004.98		A	0.5
4	☐	1.000		5821668.53		A	2.2
5	☐	1.000		5617313.14		A	6.7
6	☐	1.000		5787888.94		A	1.1
7	☐	1.000		5803704.84		A	1.5
8	☐	1.000		5425062.83		A	0.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3792126.33		A	0.5
2	☐	1.000		3745752.34		A	4.2
3	☐	1.000		3786057.93		A	0.7
4	☐	1.000		3788053.17		A	0.3
5	☐	1.000		3742657.76		A	1.0
6	☐	1.000		3757037.69		A	0.6
7	☐	1.000		3760875.71		A	0.7
8	☐	1.000		3453662.69		A	0.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3401763.01		A	1.6
2	☐	1.000		3362261.79		A	0.5
3	☐	1.000		3335594.71		A	1.1
4	☐	1.000		3344724.22		A	1.2
5	☐	1.000		3168942.56		A	5.6
6	☐	1.000		3296801.17		A	1.6
7	☐	1.000		3218804.71		A	0.4
8	☐	1.000		2696423.48		A	0.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2542142.03		A	0.3
2	☐	1.000		2538817.77		A	5.2
3	☐	1.000		2546870.99		A	0.6
4	☐	1.000		2527029.17		A	1.5
5	☐	1.000		2499297.06		A	1.4
6	☐	1.000		2440146.84		A	0.8
7	☐	1.000		2374525.14		A	1.6
8	☐	1.000		2028949.85		A	0.6

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7110423-MS.b

Acq. Date-Time 2023-11-04 14:11:53

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		5345	53448.25			1.127	5.000
24		30911	309106.58			1.693	5.000
25		3971	39713.16			1.676	5.000
26		4538	45376.67			1.832	5.000
59		38192	381915.68			1.227	5.000
113		6060	60604.56			1.114	5.000
115		75027	750267.37			1.360	5.000
206		16216	162162.54			1.190	5.000
207		14331	143314.48			0.996	5.000
208		34271	342705.92			1.325	5.000
220		0	1.70			76.696	

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

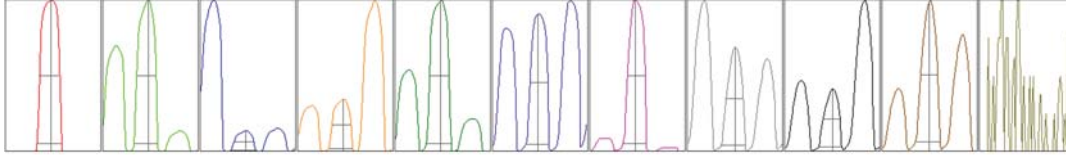
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	5239	5387	5362	5364	5372
24	30032	30880	31061	31216	31364
25	3857	3974	4012	3993	4021
26	4399	4552	4541	4580	4617
59	37378	38214	38407	38436	38523
113	5942	6068	6108	6094	6089
115	73244	75655	75174	75353	75708
206	15888	16208	16302	16309	16374
207	14091	14360	14364	14367	14475
208	33468	34397	34487	34427	34574

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	8543.54	8.95	8.90 - 9.10	
24	51816.48	23.95	23.90 - 24.10	
25	6747.22	24.95	24.90 - 25.10	
26	7639.91	25.95	25.90 - 26.10	
59	63977.14	58.95	58.90 - 59.10	
113	11096.82	112.95	112.90 - 113.10	
115	138723.51	114.95	114.90 - 115.10	
206	31329.60	206.05	205.90 - 206.10	
207	27579.88	207.05	206.90 - 207.10	
208	66320.88	208.00	207.90 - 208.10	
220	0.00	219.65	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.782	0.900	
24	0.63	0.744	0.900	
25	0.62	0.758	0.900	
26	0.62	0.747	0.900	
59	0.62	0.787	0.900	
113	0.55	0.736	0.900	
115	0.55	0.745	0.900	
206	0.53	0.764	0.900	
207	0.53	0.727	0.900	
208	0.53	0.782	0.900	
220	0.35	0.350		

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	8.1 V	Deflect	15.4 V
Extract 2	-100.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 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	190 V		

QP Parameters

Mass Gain	132	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	0.8 mm
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EM

Discriminator	4.6 mV	Analog HV	2296 V	Pulse HV	1351 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		11997	119974.50			0.251	
89		18157	181565.39			0.544	
205		17484	174844.20			0.453	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	11992	12023	11992	11953	12027
89	18066	18210	18126	18080	18301
205	17545	17529	17551	17406	17391

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	8.8 V	Deflect	2.2 V
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US EPA Tune Check Report

Extract 2	-100.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-55 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	200 V		

QP Parameters

Mass Gain	132	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	0.8 mm
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EM

Discriminator	4.6 mV	Analog HV	2296 V	Pulse HV	1351 V
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