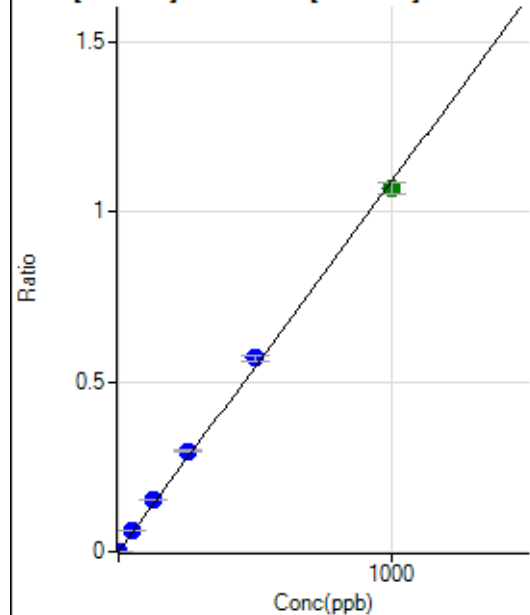


Calibration for 009CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7100724-MS6.b\
 Analysis File: P7100724-MS6.batch.bin
 DA Date-Time: 2024-10-10 20:18:20
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-10-07 17:24:59
2	005CALS.d	S02	2024-10-07 17:28:19
3	006CALS.d	S03	2024-10-07 17:31:39
4	007CALS.d	S04	2024-10-07 17:34:48
5	008CALS.d	S05	2024-10-07 17:37:48
6	009CALS.d	S06	2024-10-07 17:40:41
7	010CALS.d	S07	2024-10-07 17:43:33
8	011CALS.d	S08	2024-10-07 17:46:18

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	93.34	0.0001	P	28.8
2	☐	1.000	1.180	1428.97	0.0014	P	3.5
3	☐	50.000	58.985	65439.33	0.0643	P	1.3
4	☐	125.000	141.387	159571.65	0.1540	P	1.9
5	☐	250.000	272.470	308560.15	0.2968	P	2.1
6	☐	500.000	522.583	590091.58	0.5691	P	2.1
7	☐	1000.000	980.593	1093439.05	1.0678	A	3.0
8	☐			324.45	0.0003	P	10.8

$$y = 0.0011 * x + 8.9457E-005$$

$$R = 0.9993$$

$$DL = 0.07093$$

$$BEC = 0.08216$$

Weight: <None>

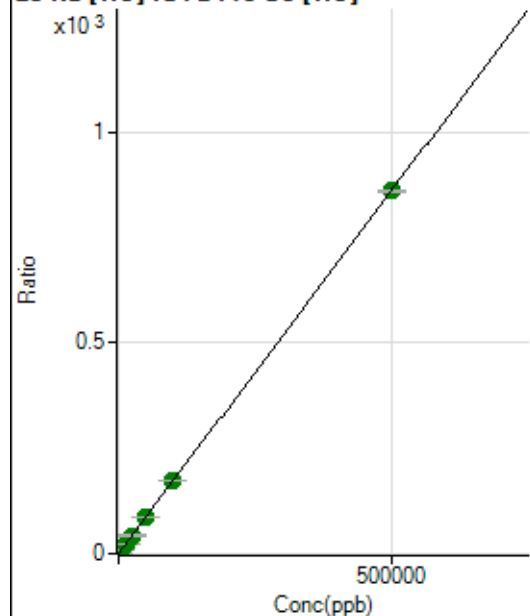
Min Conc: 0

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	10932.85	0.0479	P	0.5
2	☐	500.000	539.656	217170.31	0.9774	P	2.6
3	☐	5000.000	4943.061	1932663.91	8.5618	A	3.7
4	☐	12500.000	12546.142	4615107.29	21.6575	A	8.1
5	☐	25000.000	25116.466	8884883.27	43.3087	A	1.1
6	☐	50000.000	50490.432	16881411.55	87.0130	A	0.5
7	☐	100000.00	100893.47	34237553.66	173.8277	A	0.5
8	☐	500000.00	499765.81	171661150.7	860.8488	A	0.4

$$y = 0.0017 * x + 0.0479$$

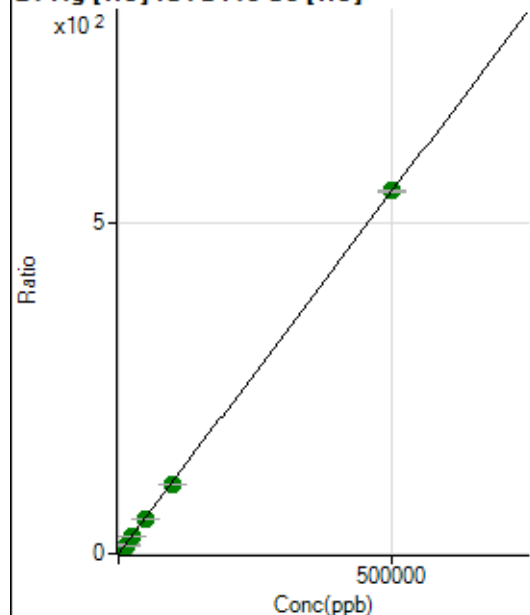
$$R = 1.0000$$

$$DL = 0.4064$$

$$BEC = 27.8$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	726.69	0.0032	P	4.2
2	☐	500.000	540.302	132059.90	0.5944	P	3.1
3	☐	5000.000	4665.610	1153174.71	5.1083	A	3.3
4	☐	12500.000	11915.562	2777733.26	13.0412	A	9.0
5	☐	25000.000	23790.197	5341129.37	26.0344	A	0.2
6	☐	50000.000	47783.073	10144140.82	52.2874	A	1.3
7	☐	100000.00	95045.767	20484218.45	104.0021	A	0.8
8	☐	500000.00	501290.94	109380233.9	548.5150	A	0.2

$$y = 0.0011 * x + 0.0032$$

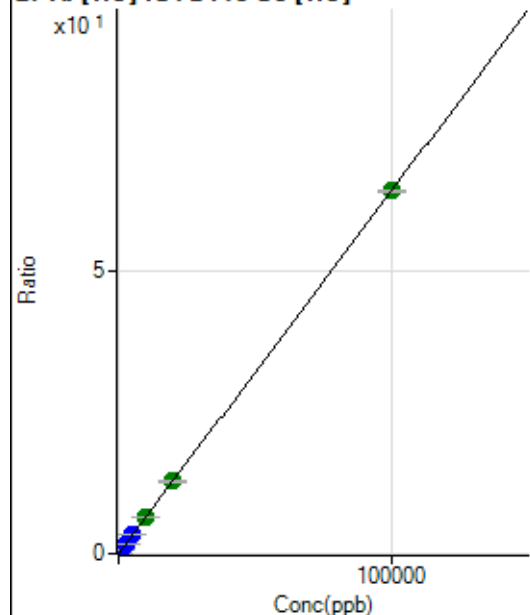
$$R = 0.9999$$

$$DL = 0.3639$$

$$BEC = 2.908$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	81.11	0.0004	P	6.7
2	☐	20.000	20.088	2936.97	0.0132	P	1.8
3	☐	1000.000	1004.600	145262.53	0.6435	P	3.6
4	☐	2500.000	2559.249	349278.50	1.6388	P	7.8
5	☐	5000.000	5086.787	668188.23	3.2569	P	0.4
6	☐	10000.000	10019.578	1244518.19	6.4149	A	1.4
7	☐	20000.000	19977.499	2519125.69	12.7901	A	1.2
8	☐	100000.00	99996.676	12766452.73	64.0188	A	0.5

$$y = 6.4021E-004 * x + 3.5529E-004$$

$$R = 1.0000$$

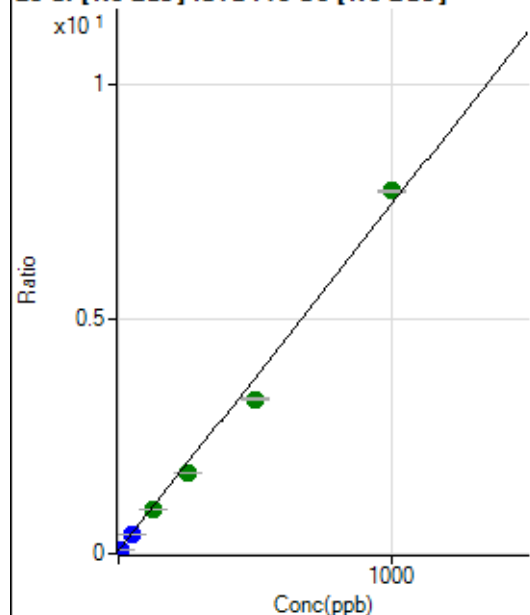
$$DL = 0.1117$$

$$BEC = 0.555$$

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	182293.44	0.0652	P	0.4
2	☐	10.000	0.742	197282.39	0.0707	P	4.0
3	☐	50.000	46.037	1113823.57	0.4053	P	1.1
4	☐	125.000	118.808	2440533.68	0.9430	A	0.6
5	☐	250.000	224.559	4388489.94	1.7242	A	1.5
6	☐	500.000	436.606	7941810.09	3.2908	A	1.1
7	☐	1000.000	1039.122	18680495.83	7.7421	A	0.3
8	☐			200091.37	0.0840	P	2.2

$$y = 0.0074 * x + 0.0652$$

$$R = 0.9969$$

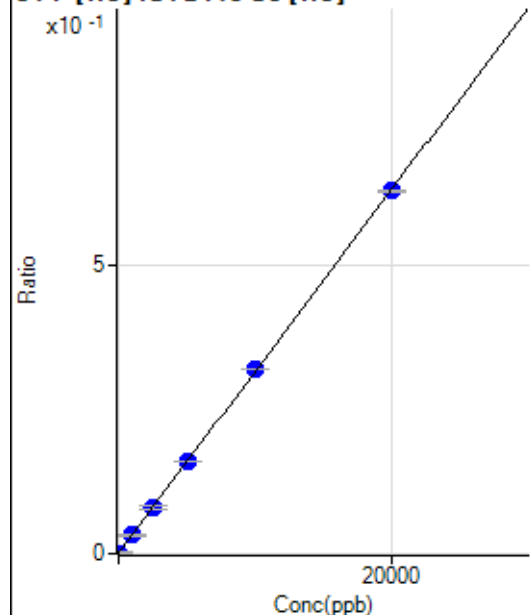
$$DL = 0.1041$$

$$BEC = 8.828$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-15.076	147.78	0.0006	P	8.2
2	☐	0.000	15.076	355.56	0.0016	P	9.1
3	☐	1000.000	975.708	7195.10	0.0319	P	5.0
4	☐	2500.000	2533.127	17250.93	0.0810	P	8.8
5	☐	5000.000	5045.522	32864.10	0.1602	P	1.7
6	☐	10000.000	10106.978	62037.15	0.3198	P	0.6
7	☐	20000.000	19932.204	123991.20	0.6295	P	0.7
8	☐			125.56	0.0006	P	16.9

$$y = 3.1527E-005 * x + 0.0011$$

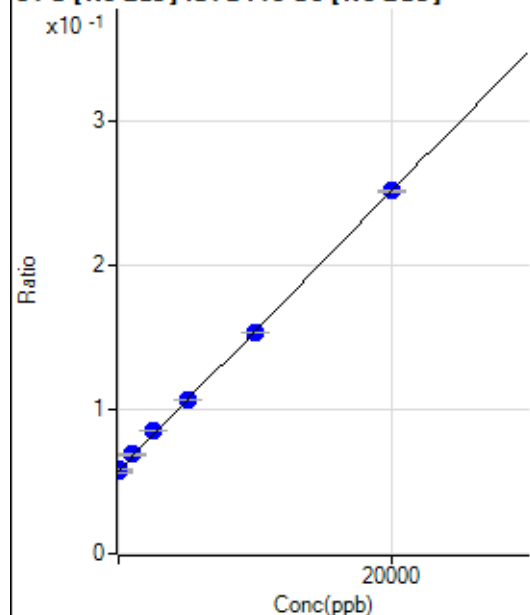
$$R = 1.0000$$

$$DL = 9.41$$

$$BEC = 35.6$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	35.152	162009.15	0.0580	P	1.0
2	☐	0.000	-35.152	159867.34	0.0573	P	3.2
3	☐	1000.000	1175.280	189635.09	0.0690	P	1.3
4	☐	2500.000	2851.796	220622.69	0.0852	P	1.3
5	☐	5000.000	5067.207	271603.55	0.1067	P	0.6
6	☐	10000.000	9868.462	369775.33	0.1532	P	0.4
7	☐	20000.000	19996.229	606392.63	0.2513	P	0.5
8	☐			131991.80	0.0554	P	0.3

$$y = 9.6869\text{E-}006 * x + 0.0576$$

R = 0.9998

DL = 372.2

BEC = 5949

Weight: <None>

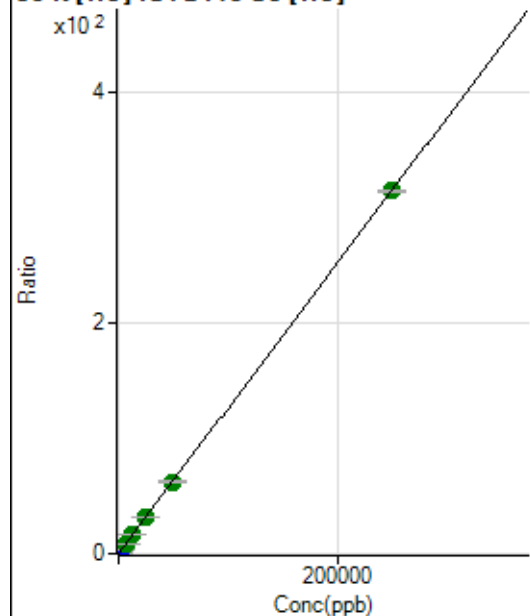
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj 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	38781.47	0.1698	P	0.6
2	☐	500.000	565.224	195419.33	0.8795	P	2.6
3	☐	2500.000	2665.979	793848.49	3.5171	P	4.0
4	☐	6250.000	6348.781	1735265.22	8.1409	A	7.8
5	☐	12500.000	12604.881	3281602.03	15.9957	A	0.3
6	☐	25000.000	24916.529	6102326.58	31.4534	A	0.3
7	☐	50000.000	49512.606	12277527.87	62.3345	A	0.4
8	☐	250000.00	250096.32	62649706.29	314.1739	A	0.6

$$y = 0.0013 * x + 0.1698$$

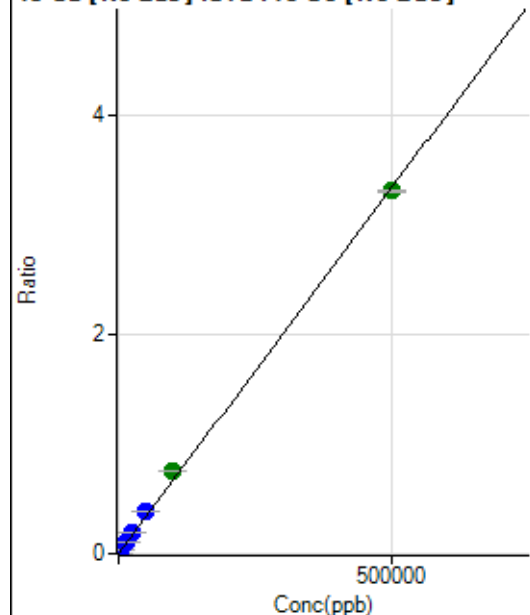
$$R = 1.0000$$

$$DL = 2.495$$

$$BEC = 135.3$$

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	248.90	0.0001	P	13.7
2	☐	500.000	548.923	10464.79	0.0038	P	4.1
3	☐	5000.000	6011.810	110427.82	0.0402	P	1.0
4	☐	12500.000	15447.042	266883.97	0.1031	P	0.2
5	☐	25000.000	29745.177	505179.77	0.1985	P	0.8
6	☐	50000.000	58435.973	940821.15	0.3898	P	0.8
7	☐	100000.00	113404.89	1825241.47	0.7565	A	1.5
8	☐	500000.00	496154.32	7888199.12	3.3093	A	0.4

$$y = 6.6697E-006 * x + 8.8992E-005$$

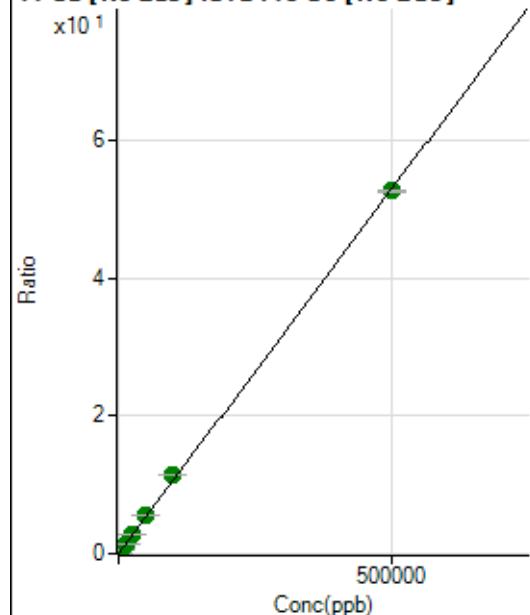
$$R = 0.9995$$

$$DL = 5.501$$

$$BEC = 13.34$$

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	4092.81	0.0015	P	2.9
2	☐	500.000	559.583	169388.37	0.0607	P	4.1
3	☐	5000.000	5561.616	1622005.83	0.5903	A	0.8
4	☐	12500.000	14029.958	3847834.80	1.4868	A	0.8
5	☐	25000.000	27104.913	7307305.52	2.8710	A	0.7
6	☐	50000.000	53654.071	13711736.32	5.6817	A	1.0
7	☐	100000.00	107816.47	27545090.70	11.4157	A	0.7
8	☐	500000.00	497922.12	125659448.1	52.7150	A	0.5

$$y = 1.0587E-004 * x + 0.0015$$

$$R = 0.9999$$

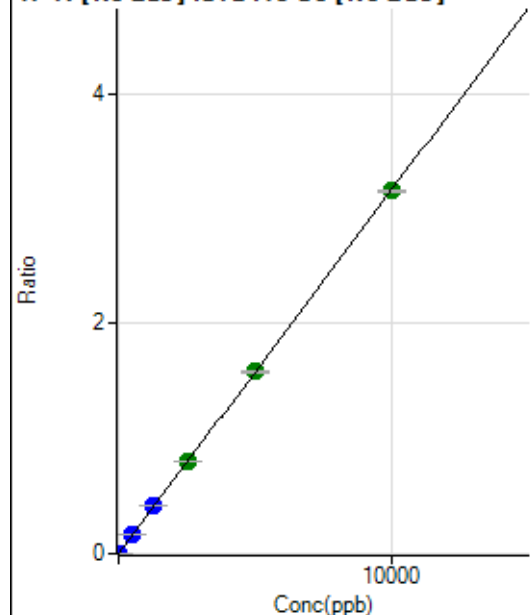
$$DL = 1.215$$

$$BEC = 13.83$$

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	65.55	0.0000	P	10.1
2	☐	5.000	4.904	4394.01	0.0016	P	1.4
3	☐	500.000	520.020	451857.53	0.1644	P	1.7
4	☐	1250.000	1332.227	1090183.92	0.4212	P	0.7
5	☐	2500.000	2525.585	2032479.87	0.7985	A	0.7
6	☐	5000.000	5012.099	3824533.49	1.5847	A	1.3
7	☐	10000.000	9976.275	7610605.58	3.1542	A	0.8
8	☐			1630.10	0.0007	P	5.3

$$y = 3.1617E-004 * x + 2.3446E-005$$

$$R = 1.0000$$

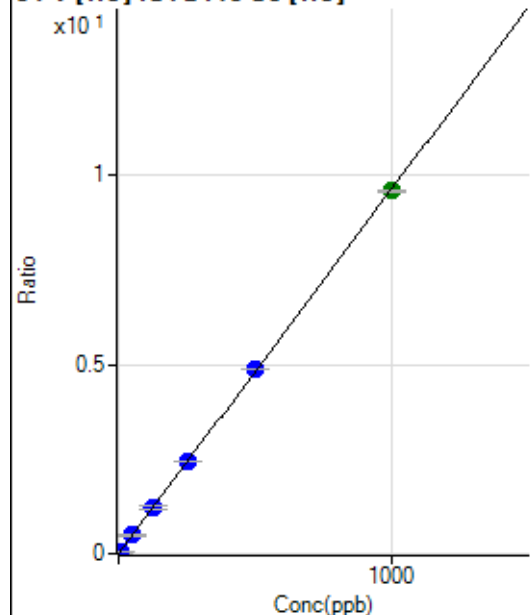
$$DL = 0.02255$$

$$BEC = 0.07416$$

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	4.45	0.0000	P	86.6
2	☐	5.000	5.417	11602.32	0.0522	P	1.5
3	☐	50.000	50.612	110058.42	0.4876	P	4.0
4	☐	125.000	128.579	264000.76	1.2387	P	7.9
5	☐	250.000	254.053	502125.02	2.4475	P	0.3
6	☐	500.000	505.692	945166.56	4.8717	P	0.4
7	☐	1000.000	995.660	1889232.39	9.5920	A	0.8
8	☐			590.02	0.0030	P	1.0

$$y = 0.0096 * x + 1.9470E-005$$

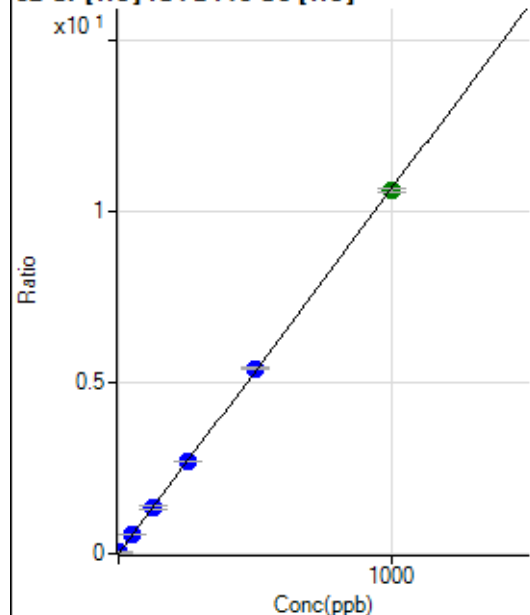
$$R = 1.0000$$

$$DL = 0.005251$$

$$BEC = 0.002021$$

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	365.56	0.0016	P	12.1
2	☐	2.000	2.506	6279.14	0.0283	P	3.2
3	☐	50.000	51.073	123006.61	0.5450	P	4.3
4	☐	125.000	128.698	292091.52	1.3709	P	8.4
5	☐	250.000	255.025	557004.41	2.7150	P	0.1
6	☐	500.000	507.985	1048913.33	5.4065	P	0.4
7	☐	1000.000	994.234	2083848.77	10.5801	A	0.9
8	☐			7726.50	0.0387	P	0.8

$$y = 0.0106 * x + 0.0016$$

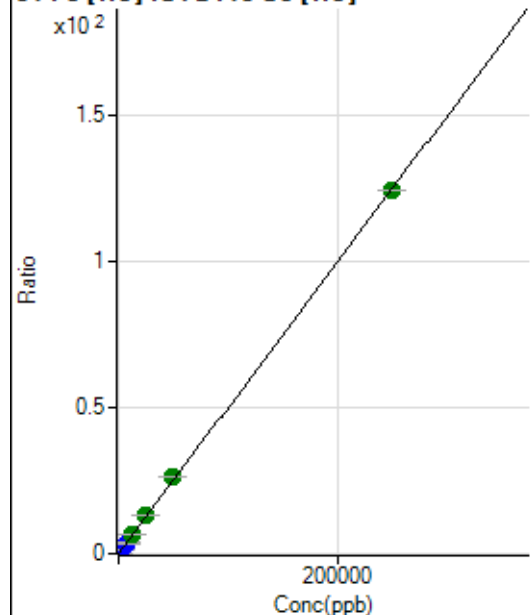
$$R = 0.9999$$

$$DL = 0.0544$$

$$BEC = 0.1504$$

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	1146.72	0.0050	P	3.0
2	☐	50.000	64.706	8266.77	0.0372	P	2.2
3	☐	2500.000	2834.545	319321.59	1.4146	P	3.5
4	☐	6250.000	7149.689	758862.55	3.5604	P	7.8
5	☐	12500.000	13466.141	1374845.69	6.7014	A	1.0
6	☐	25000.000	26802.661	2586782.95	13.3334	A	0.6
7	☐	50000.000	52831.226	5175553.88	26.2768	A	0.3
8	☐	250000.00	249179.34	24710323.80	123.9163	A	0.2

$$y = 4.9728E-004 * x + 0.0050$$

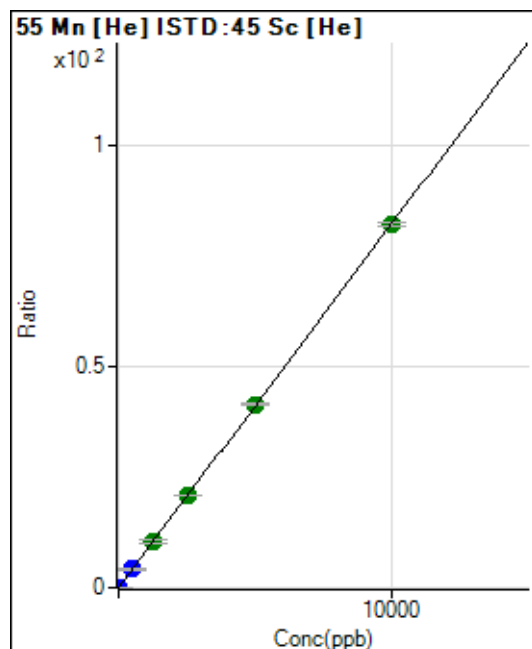
$$R = 0.9999$$

$$DL = 0.9188$$

$$BEC = 10.1$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	193.34	0.0008	P	5.0
2	☐	1.000	1.343	2641.36	0.0119	P	6.6
3	☐	500.000	509.721	946546.25	4.1933	P	3.7
4	☐	1250.000	1274.617	2234223.58	10.4846	A	8.1
5	☐	2500.000	2525.263	4261261.67	20.7711	A	1.1
6	☐	5000.000	5030.076	8026645.44	41.3732	A	0.9
7	☐	10000.000	9975.083	16159571.57	82.0458	A	0.9
8	☐			9598.69	0.0481	P	1.3

$$y = 0.0082 * x + 8.4680E-004$$

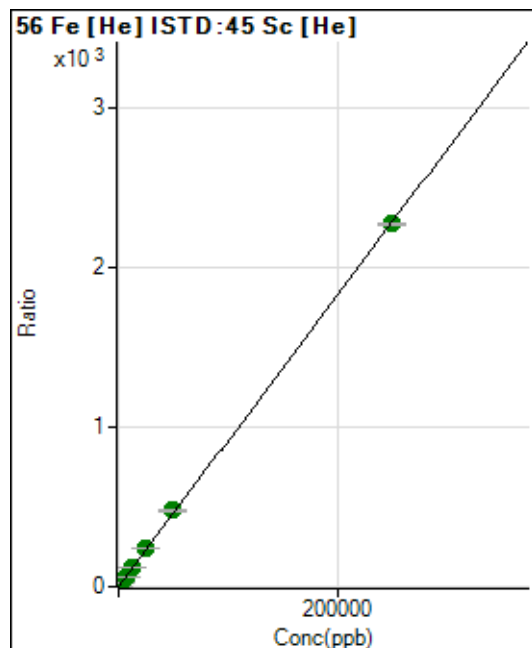
$$R = 1.0000$$

$$DL = 0.01538$$

$$BEC = 0.103$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6774.91	0.0297	P	1.7
2	☐	50.000	61.452	131251.89	0.5908	P	3.1
3	☐	2500.000	2642.342	5452928.74	24.1555	A	3.4
4	☐	6250.000	6713.374	13071994.39	61.3259	A	7.6
5	☐	12500.000	13247.064	24819892.96	120.9816	A	0.6
6	☐	25000.000	26308.098	46607845.97	240.2349	A	0.8
7	☐	50000.000	52290.824	94042294.15	477.4694	A	0.6
8	☐	250000.00	249360.66	454012344.3	2,276.809	A	0.7

$$y = 0.0091 * x + 0.0297$$

$$R = 0.9999$$

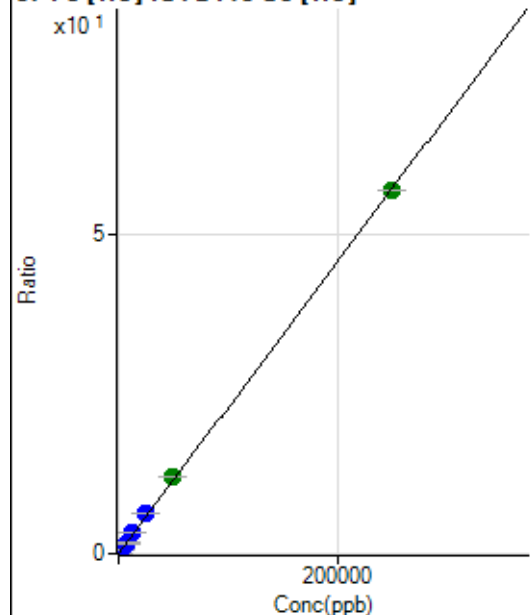
$$DL = 0.1679$$

$$BEC = 3.25$$

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	831.14	0.0036	P	6.1
2	☐	50.000	64.767	4081.71	0.0184	P	5.8
3	☐	2500.000	2779.638	143595.73	0.6361	P	3.6
4	☐	6250.000	7067.131	343425.63	1.6117	P	8.2
5	☐	12500.000	13988.258	653744.66	3.1866	P	0.3
6	☐	25000.000	27712.144	1224075.35	6.3094	P	0.6
7	☐	50000.000	53071.016	2379243.84	12.0796	A	0.5
8	☐	250000.00	249016.94	11299910.66	56.6660	A	0.1

$$y = 2.2754\text{E-}004 * x + 0.0036$$

$$R = 0.9999$$

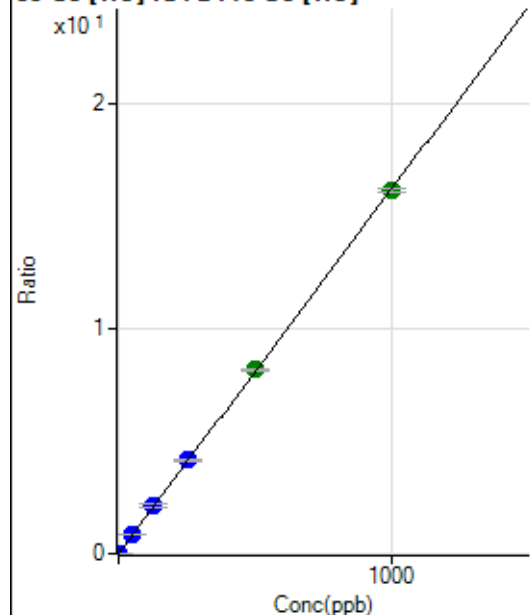
$$DL = 2.926$$

$$BEC = 15.99$$

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	146.67	0.0006	P	2.7
2	☐	1.000	1.156	4299.55	0.0193	P	1.9
3	☐	50.000	51.417	187965.28	0.8326	P	2.9
4	☐	125.000	129.586	446822.62	2.0973	P	8.6
5	☐	250.000	256.023	849968.05	4.1430	P	0.2
6	☐	500.000	505.260	1586180.03	8.1756	A	0.9
7	☐	1000.000	995.220	3171647.07	16.1031	A	1.0
8	☐			8341.26	0.0418	P	1.9

$$y = 0.0162 * x + 6.4237\text{E-}004$$

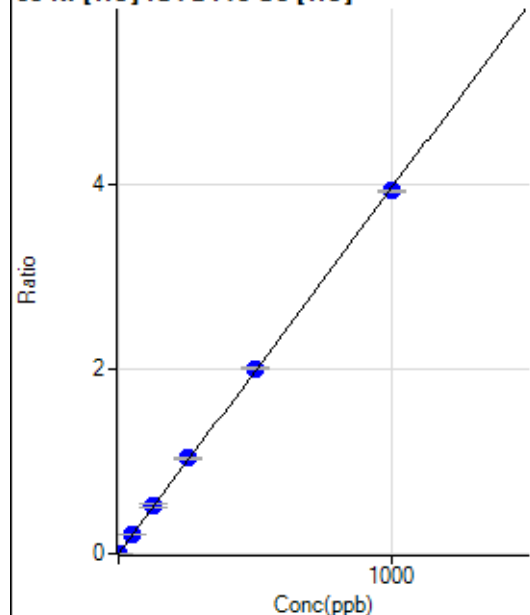
$$R = 1.0000$$

$$DL = 0.003231$$

$$BEC = 0.0397$$

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	90.00	0.0004	P	26.0
2	☐	1.000	1.234	1176.73	0.0053	P	13.9
3	☐	50.000	53.067	47633.12	0.2110	P	3.3
4	☐	125.000	132.490	112174.22	0.5262	P	7.6
5	☐	250.000	260.460	212150.40	1.0341	P	1.0
6	☐	500.000	507.483	390823.87	2.0145	P	0.6
7	☐	1000.000	992.554	775942.92	3.9396	P	0.7
8	☐			3447.10	0.0173	P	5.9

$$y = 0.0040 * x + 3.9440E-004$$

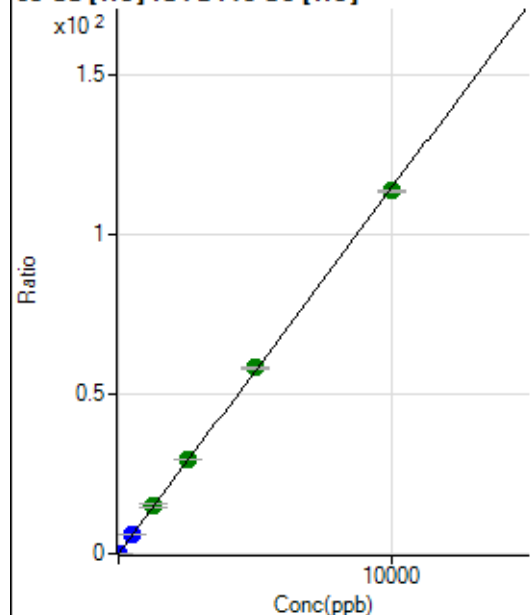
$$R = 0.9999$$

$$DL = 0.07747$$

$$BEC = 0.09938$$

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	520.01	0.0023	P	5.8
2	☐	2.000	2.118	5903.43	0.0266	P	2.4
3	☐	500.000	517.427	1339834.82	5.9353	P	3.5
4	☐	1250.000	1326.665	3243541.48	15.2144	A	7.4
5	☐	2500.000	2585.399	6082410.39	29.6476	A	0.5
6	☐	5000.000	5089.600	11322562.33	58.3619	A	0.8
7	☐	10000.000	9923.396	22412229.11	113.7883	A	0.5
8	☐			4464.04	0.0224	P	3.0

$$y = 0.0115 * x + 0.0023$$

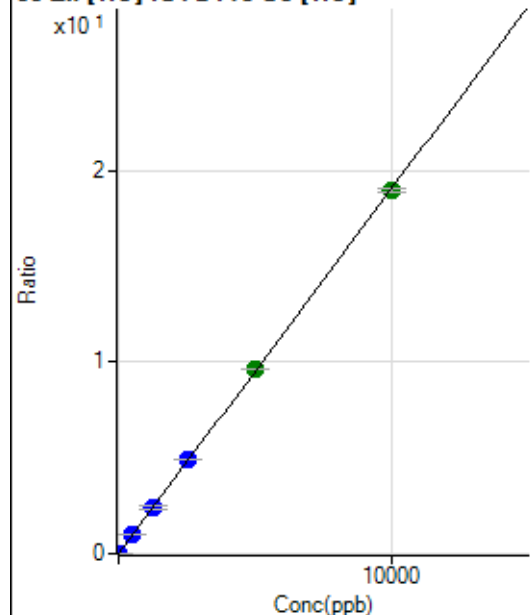
$$R = 0.9999$$

$$DL = 0.03459$$

$$BEC = 0.1986$$

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	130.00	0.0006	P	16.6
2	☐	5.000	5.394	2410.22	0.0108	P	5.4
3	☐	500.000	510.389	219708.99	0.9733	P	3.8
4	☐	1250.000	1285.173	521918.45	2.4500	P	8.7
5	☐	2500.000	2561.120	1001535.77	4.8818	P	0.2
6	☐	5000.000	5076.324	1877170.13	9.6755	A	0.2
7	☐	10000.000	9941.642	3732103.80	18.9483	A	0.9
8	☐			1280.07	0.0064	P	12.1

$$y = 0.0019 * x + 5.6921E-004$$

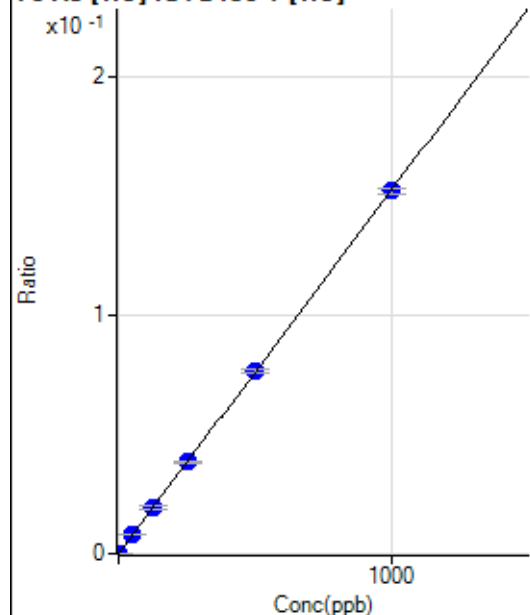
$$R = 0.9999$$

$$DL = 0.1487$$

$$BEC = 0.2987$$

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	1.11	0.0000	P	173.
2	☐	1.000	1.040	315.56	0.0002	P	8.0
3	☐	50.000	51.441	15606.07	0.0078	P	2.3
4	☐	125.000	128.659	37441.51	0.0196	P	8.5
5	☐	250.000	252.414	71122.63	0.0384	P	1.0
6	☐	500.000	501.607	134851.11	0.0764	P	1.5
7	☐	1000.000	998.063	270219.53	0.1519	P	1.5
8	☐			171.12	0.0001	P	13.7

$$y = 1.5224E-004 * x + 5.4966E-007$$

$$R = 1.0000$$

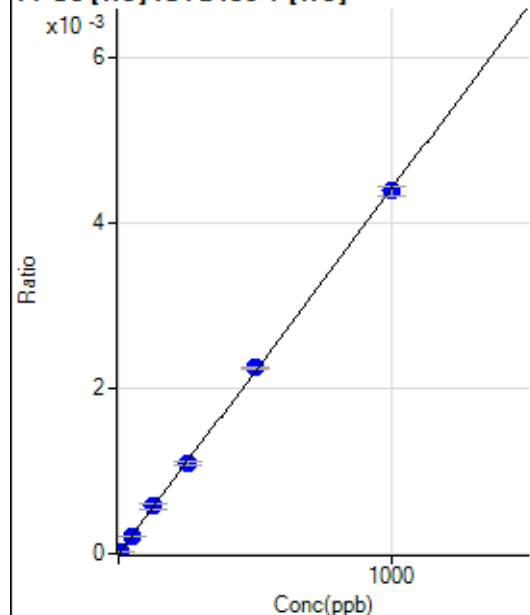
$$DL = 0.01876$$

$$BEC = 0.00361$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	6.718	58.89	0.0000	P	7.6
3	☐	50.000	47.526	418.90	0.0002	P	3.9
4	☐	125.000	129.426	1092.27	0.0006	P	9.3
5	☐	250.000	249.409	2039.05	0.0011	P	3.8
6	☐	500.000	510.339	3980.57	0.0023	P	0.9
7	☐	1000.000	994.540	7812.13	0.0044	P	2.8
8	☐			2.22	0.0000	P	86.6

$$y = 4.4170\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

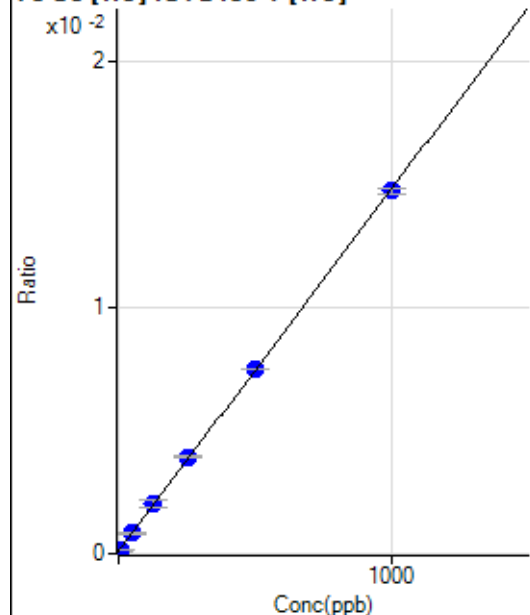
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	191.12	0.0001	P	29.6
2	☐	5.000	3.633	292.23	0.0001	P	18.6
3	☐	50.000	50.742	1672.34	0.0008	P	10.9
4	☐	125.000	131.312	3866.09	0.0020	P	12.0
5	☐	250.000	260.824	7277.42	0.0039	P	0.6
6	☐	500.000	503.576	13251.56	0.0075	P	0.5
7	☐	1000.000	994.687	26194.36	0.0147	P	1.9
8	☐			97.78	0.0001	P	23.4

$$y = 1.4713\text{E-}005 * x + 9.4424\text{E-}005$$

$$R = 0.9999$$

$$DL = 5.695$$

$$BEC = 6.418$$

Weight: <None>

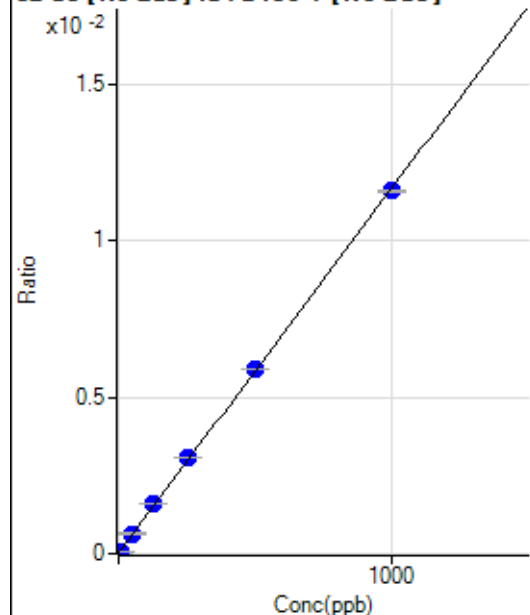
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8711.54		P	0.6
2	☐			8657.06		P	1.6
3	☐			8550.32		P	1.8
4	☐			8063.40		P	0.7
5	☐			7420.82		P	1.7
6	☐			6980.59		P	1.3
7	☐			6823.86		P	1.9
8	☐			7529.77		P	3.1

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	8.3
2	☐			45.56		P	4.2
3	☐			63.33		P	22.9
4	☐			43.33		P	20.4
5	☐			55.56		P	3.5
6	☐			35.56		P	28.6
7	☐			37.78		P	22.2
8	☐			60.00		P	19.2

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	179.31	0.0000	P	14.7
2	☐	5.000	5.443	715.70	0.0001	P	4.3
3	☐	50.000	53.339	5353.61	0.0006	P	1.9
4	☐	125.000	134.534	12788.42	0.0016	P	1.3
5	☐	250.000	260.323	24157.56	0.0031	P	0.5
6	☐	500.000	504.688	44952.47	0.0059	P	0.8
7	☐	1000.000	993.714	88929.14	0.0116	P	0.8
8	☐			241.08	0.0000	P	5.4

$$y = 1.1635E-005 * x + 2.1166E-005$$

R = 0.9999

DL = 0.8042

BEC = 1.819

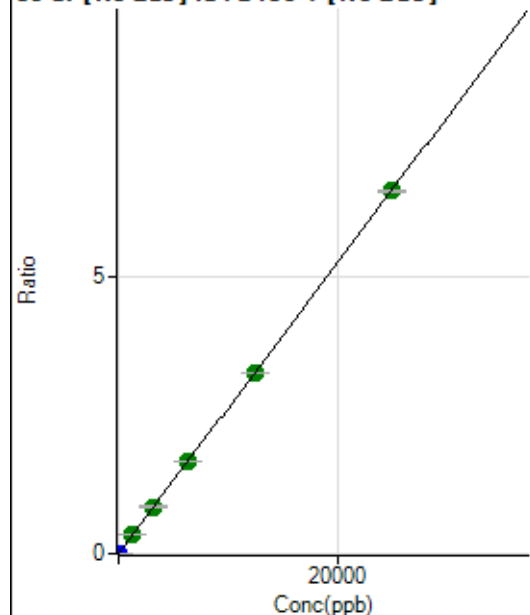
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			110.00		P	23.7
2	☐			107.78		P	23.4
3	☐			106.67		P	14.3
4	☐			115.56		P	13.6
5	☐			121.11		P	30.9
6	☐			78.89		P	13.6
7	☐			102.22		P	13.2
8	☐			117.78		P	3.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	195.56	0.0000	P	12.8
2	☐	1.000	1.082	2602.48	0.0003	P	1.8
3	☐	1250.000	1291.875	2832760.65	0.3396	A	2.0
4	☐	3125.000	3229.342	6841432.05	0.8488	A	1.6
5	☐	6250.000	6324.767	13165422.44	1.6623	A	0.7
6	☐	12500.000	12460.108	24979042.41	3.2749	A	0.6
7	☐	25000.000	24986.118	50420544.25	6.5671	A	0.6
8	☐			8448.05	0.0012	P	0.5

$$y = 2.6283\text{E-}004 * x + 2.3073\text{E-}005$$

$$R = 1.0000$$

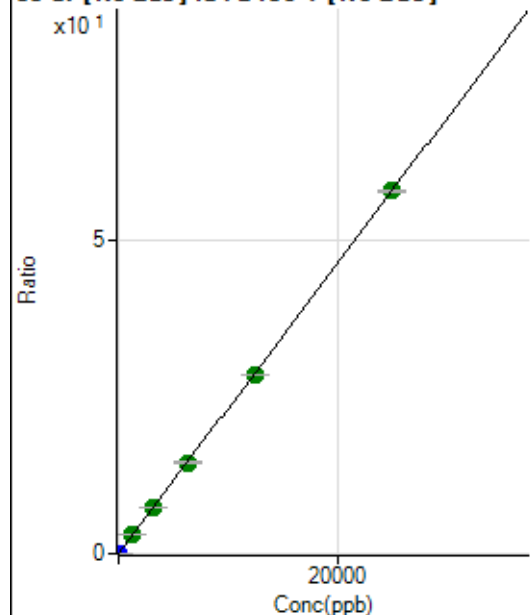
$$DL = 0.03375$$

$$BEC = 0.08779$$

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	136.67	0.0000	P	25.0
2	☐	1.000	1.030	20268.51	0.0024	P	1.6
3	☐	1250.000	1287.491	24812428.24	2.9742	A	0.9
4	☐	3125.000	3211.937	59805334.66	7.4197	A	1.9
5	☐	6250.000	6301.787	115294657.1	14.5574	A	0.2
6	☐	12500.000	12372.015	217995532.3	28.5799	A	0.3
7	☐	25000.000	25038.304	444069811.1	57.8396	A	0.8
8	☐			73289.51	0.0100	P	5.4

$$y = 0.0023 * x + 1.6130\text{E-}005$$

$$R = 1.0000$$

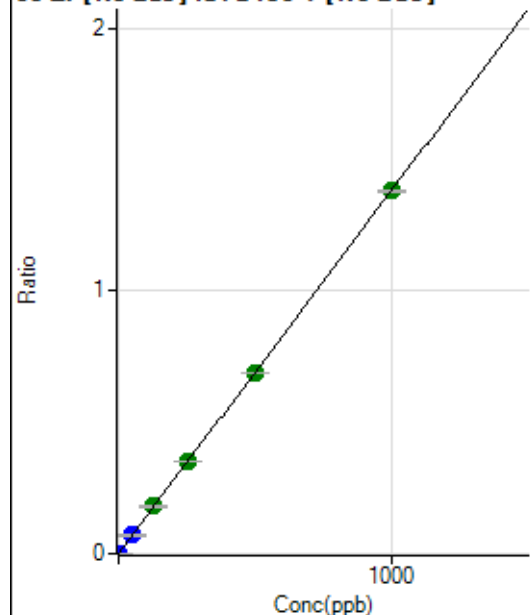
$$DL = 0.005228$$

$$BEC = 0.006983$$

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	536.68	0.0001	P	6.1
2	☐	1.000	1.019	12458.71	0.0015	P	2.6
3	☐	50.000	50.737	585385.47	0.0702	P	2.6
4	☐	125.000	129.777	1446040.78	0.1794	A	1.7
5	☐	250.000	253.146	2771133.19	0.3499	A	0.2
6	☐	500.000	498.812	5258200.76	0.6894	A	0.3
7	☐	1000.000	999.174	10601342.27	1.3808	A	0.7
8	☐			7310.77	0.0010	P	2.2

$$y = 0.0014 * x + 6.3329E-005$$

$$R = 1.0000$$

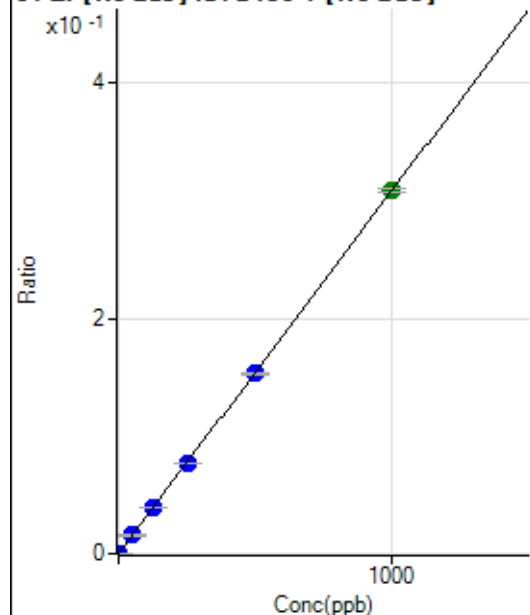
$$DL = 0.008333$$

$$BEC = 0.04583$$

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	123.33	0.0000	P	4.9
2	☐	1.000	1.021	2784.73	0.0003	P	4.4
3	☐	50.000	50.476	129872.73	0.0156	P	2.0
4	☐	125.000	128.519	319319.35	0.0396	P	1.9
5	☐	250.000	250.769	612126.37	0.0773	P	0.6
6	☐	500.000	496.773	1167753.35	0.1531	P	0.4
7	☐	1000.000	1000.957	2368372.53	0.3085	A	1.2
8	☐			1632.33	0.0002	P	1.2

$$y = 3.0815E-004 * x + 1.4554E-005$$

$$R = 1.0000$$

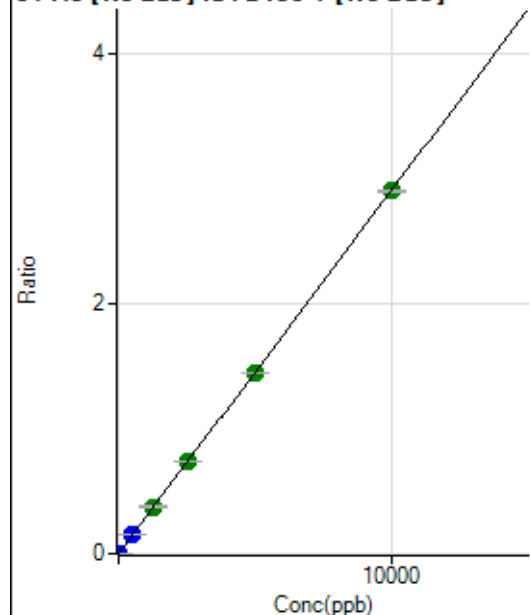
$$DL = 0.006927$$

$$BEC = 0.04723$$

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	206.67	0.0000	P	14.3
2	☐	5.000	5.761	14402.70	0.0017	P	2.9
3	☐	500.000	513.853	1248291.41	0.1496	P	1.4
4	☐	1250.000	1290.665	3029277.28	0.3758	A	1.1
5	☐	2500.000	2545.555	5869843.66	0.7412	A	0.7
6	☐	5000.000	4990.109	11081824.69	1.4529	A	0.4
7	☐	10000.000	9987.781	22326230.78	2.9080	A	0.3
8	☐			7248.52	0.0010	P	2.2

$$y = 2.9115\text{E-}004 * x + 2.4391\text{E-}005$$

$$R = 1.0000$$

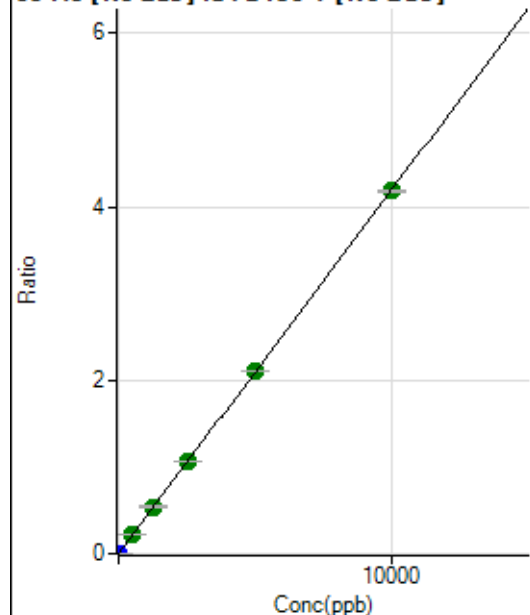
$$DL = 0.03594$$

$$BEC = 0.08378$$

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	53.33	0.0000	P	17.0
2	☐	5.000	4.824	17155.66	0.0020	P	3.9
3	☐	500.000	514.688	1798976.79	0.2157	A	3.0
4	☐	1250.000	1292.845	4366836.78	0.5417	A	1.2
5	☐	2500.000	2534.301	8410036.75	1.0619	A	1.1
6	☐	5000.000	5014.268	16026119.76	2.1011	A	0.3
7	☐	10000.000	9978.201	32100758.97	4.1811	A	0.5
8	☐			8038.92	0.0011	P	4.0

$$y = 4.1902\text{E-}004 * x + 6.2964\text{E-}006$$

$$R = 1.0000$$

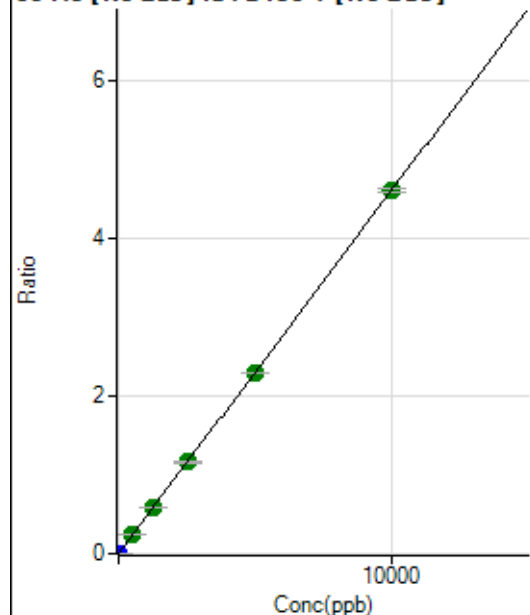
$$DL = 0.007648$$

$$BEC = 0.01503$$

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	100.00	0.0000	P	10.0
2	☐	5.000	4.912	19210.51	0.0023	P	4.4
3	☐	500.000	510.318	1957382.26	0.2346	A	2.4
4	☐	1250.000	1285.097	4762696.66	0.5909	A	1.5
5	☐	2500.000	2531.921	9219418.89	1.1641	A	1.4
6	☐	5000.000	4993.649	17512883.77	2.2960	A	0.2
7	☐	10000.000	9990.292	35265197.53	4.5934	A	1.1
8	☐			13520.78	0.0018	P	2.8

$$y = 4.5978\text{E-}004 * x + 1.1799\text{E-}005$$

$$R = 1.0000$$

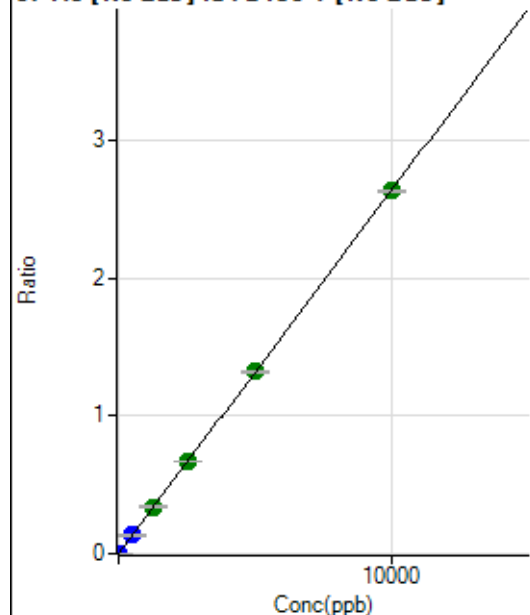
$$DL = 0.007683$$

$$BEC = 0.02566$$

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	13.6
2	☐	5.000	4.891	10964.18	0.0013	P	3.3
3	☐	500.000	508.111	1119939.12	0.1343	P	2.2
4	☐	1250.000	1293.767	2755115.24	0.3418	A	2.4
5	☐	2500.000	2533.971	5302569.29	0.6695	A	0.6
6	☐	5000.000	5002.298	10081475.68	1.3217	A	0.1
7	☐	10000.000	9984.482	20254202.20	2.6381	A	0.8
8	☐			4759.71	0.0006	P	3.2

$$y = 2.6422\text{E-}004 * x + 3.4098\text{E-}006$$

$$R = 1.0000$$

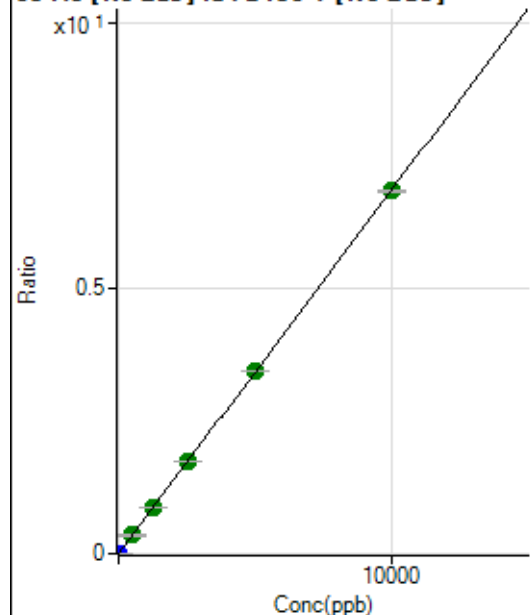
$$DL = 0.005273$$

$$BEC = 0.0129$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	64.44	0.0000	P	55.5
2	☐	5.000	4.846	28149.43	0.0033	P	3.3
3	☐	500.000	506.260	2892208.67	0.3467	A	2.1
4	☐	1250.000	1278.557	7056589.69	0.8756	A	2.7
5	☐	2500.000	2536.871	13759349.79	1.7374	A	0.8
6	☐	5000.000	5012.304	26182638.22	3.4326	A	0.1
7	☐	10000.000	9980.748	52478015.88	6.8352	A	0.3
8	☐			11884.91	0.0016	P	4.0

$$y = 6.8484\text{E-}004 * x + 7.6129\text{E-}006$$

$$R = 1.0000$$

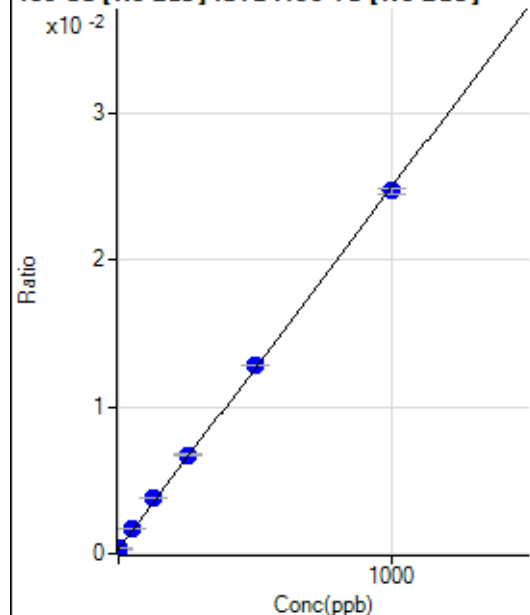
$$DL = 0.01852$$

$$BEC = 0.01112$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2160.18	0.0003	P	1.6
2	☐	1.000	1.450	2420.23	0.0004	P	3.1
3	☐	50.000	55.870	11245.55	0.0017	P	1.2
4	☐	125.000	141.472	25166.28	0.0038	P	2.1
5	☐	250.000	260.868	45376.15	0.0067	P	0.4
6	☐	500.000	508.455	83152.69	0.0128	P	0.2
7	☐	1000.000	990.703	163572.33	0.0247	P	1.3
8	☐			1901.25	0.0003	P	3.9

$$y = 2.4609\text{E-}005 * x + 3.1796\text{E-}004$$

$$R = 0.9998$$

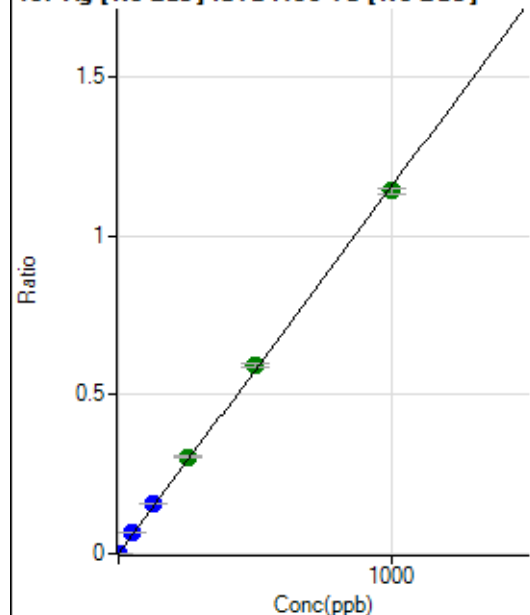
$$DL = 0.6214$$

$$BEC = 12.92$$

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	55.55	0.0000	P	19.1
2	☐	1.000	1.065	8478.11	0.0012	P	7.5
3	☐	50.000	56.027	430636.26	0.0648	P	1.0
4	☐	125.000	135.811	1040732.62	0.1571	P	1.6
5	☐	250.000	263.149	2050058.18	0.3044	A	1.5
6	☐	500.000	513.655	3850978.48	0.5942	A	1.6
7	☐	1000.000	988.233	7571587.74	1.1433	A	1.4
8	☐			1050.05	0.0002	P	15.5

$$y = 0.0012 * x + 8.1750E-006$$

$$R = 0.9997$$

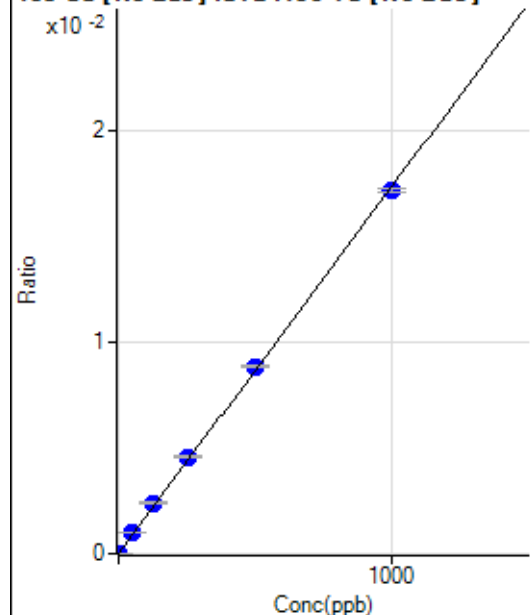
$$DL = 0.004051$$

$$BEC = 0.007067$$

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	13.33	0.0000	P	42.9
2	☐	1.000	0.994	131.11	0.0000	P	9.6
3	☐	50.000	56.205	6479.28	0.0010	P	2.3
4	☐	125.000	138.738	15931.03	0.0024	P	1.4
5	☐	250.000	263.087	30696.95	0.0046	P	1.8
6	☐	500.000	510.590	57321.42	0.0088	P	0.4
7	☐	1000.000	989.406	113498.59	0.0171	P	0.9
8	☐			54.44	0.0000	P	8.6

$$y = 1.7319E-005 * x + 1.9607E-006$$

$$R = 0.9998$$

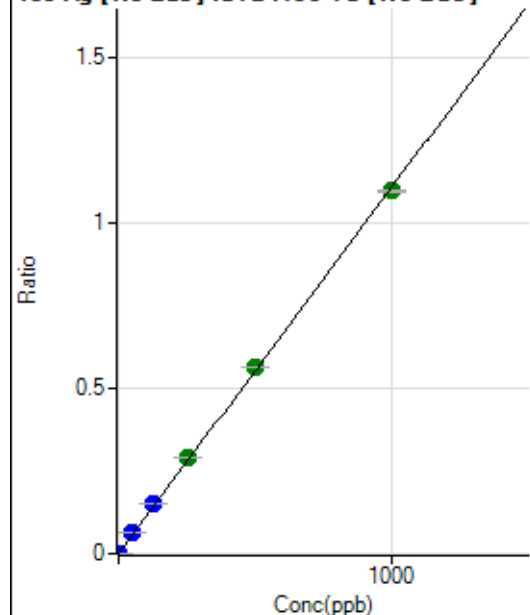
$$DL = 0.1458$$

$$BEC = 0.1132$$

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	35.56	0.0000	P	39.0
2	☐	1.000	1.052	7978.93	0.0012	P	5.2
3	☐	50.000	56.009	411090.16	0.0619	P	2.2
4	☐	125.000	135.756	993519.63	0.1500	P	1.4
5	☐	250.000	262.806	1955218.32	0.2904	A	1.6
6	☐	500.000	508.282	3639444.95	0.5616	A	0.5
7	☐	1000.000	991.013	7251219.34	1.0949	A	0.8
8	☐			1003.38	0.0002	P	14.5

$$y = 0.0011 * x + 5.2321E-006$$

$$R = 0.9998$$

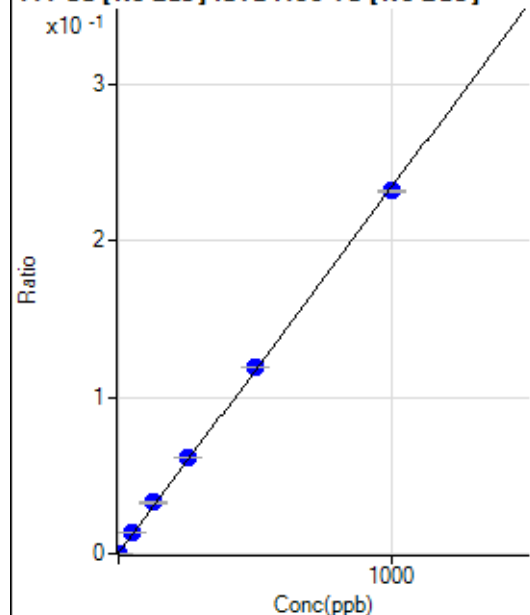
$$DL = 0.005541$$

$$BEC = 0.004736$$

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	1506.13	0.0002	P	1.7
2	☐	1.000	1.182	3408.07	0.0005	P	2.7
3	☐	50.000	56.222	88907.32	0.0134	P	1.2
4	☐	125.000	138.442	216141.26	0.0326	P	1.5
5	☐	250.000	259.869	411205.72	0.0611	P	0.4
6	☐	500.000	509.946	775120.41	0.1196	P	0.5
7	☐	1000.000	990.568	1537239.70	0.2321	P	0.6
8	☐			1609.44	0.0003	P	5.3

$$y = 2.3410E-004 * x + 2.2169E-004$$

$$R = 0.9998$$

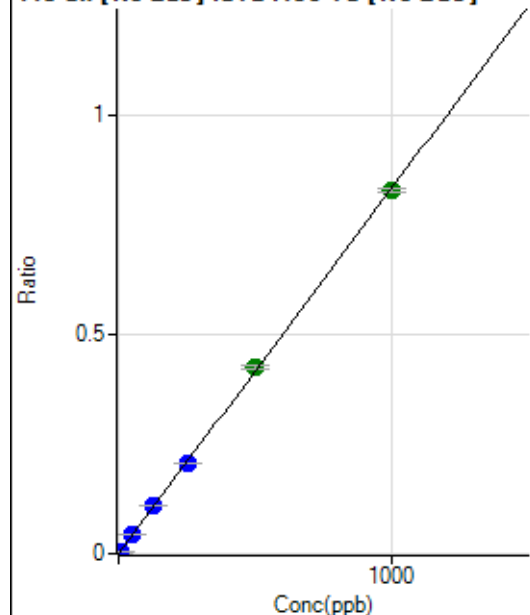
$$DL = 0.04726$$

$$BEC = 0.947$$

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	867.83	0.0001	P	5.9
2	☐	5.000	5.172	30353.07	0.0044	P	4.3
3	☐	50.000	52.357	290843.03	0.0438	P	0.9
4	☐	125.000	130.735	722911.97	0.1091	P	0.8
5	☐	250.000	247.275	1389320.95	0.2063	P	0.9
6	☐	500.000	512.549	2770492.39	0.4275	A	2.1
7	☐	1000.000	993.571	5487209.02	0.8285	A	1.1
8	☐			5927.94	0.0009	P	2.3

$$y = 8.3378\text{E-}004 * x + 1.2772\text{E-}004$$

R = 0.9999

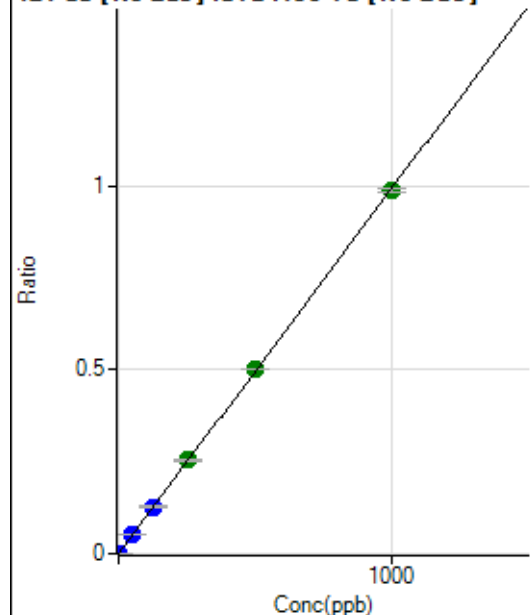
DL = 0.02697

BEC = 0.1532

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	37.78	0.0000	P	51.3
2	☐	2.000	2.102	14288.29	0.0021	P	4.4
3	☐	50.000	52.543	346069.18	0.0521	P	0.9
4	☐	125.000	129.093	847759.15	0.1280	P	1.4
5	☐	250.000	256.472	1712530.29	0.2543	A	0.8
6	☐	500.000	506.920	3256984.36	0.5026	A	0.5
7	☐	1000.000	994.283	6528274.28	0.9857	A	1.2
8	☐			5535.57	0.0009	P	4.2

$$y = 9.9138\text{E-}004 * x + 5.5541\text{E-}006$$

R = 0.9999

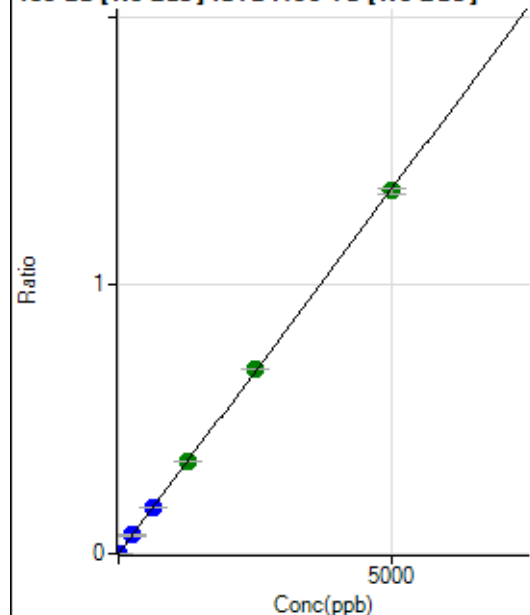
DL = 0.008629

BEC = 0.005602

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	66.67	0.0000	P	18.3
2	☐	10.000	9.939	18515.47	0.0027	P	2.4
3	☐	250.000	251.981	454423.93	0.0684	P	1.6
4	☐	625.000	629.351	1131548.42	0.1708	P	1.7
5	☐	1250.000	1265.211	2312626.11	0.3434	A	1.2
6	☐	2500.000	2534.741	4458720.97	0.6880	A	0.8
7	☐	5000.000	4978.184	8948789.03	1.3512	A	1.3
8	☐			3254.85	0.0005	P	2.6

$$y = 2.7143\text{E-}004 * x + 9.8158\text{E-}006$$

$$R = 1.0000$$

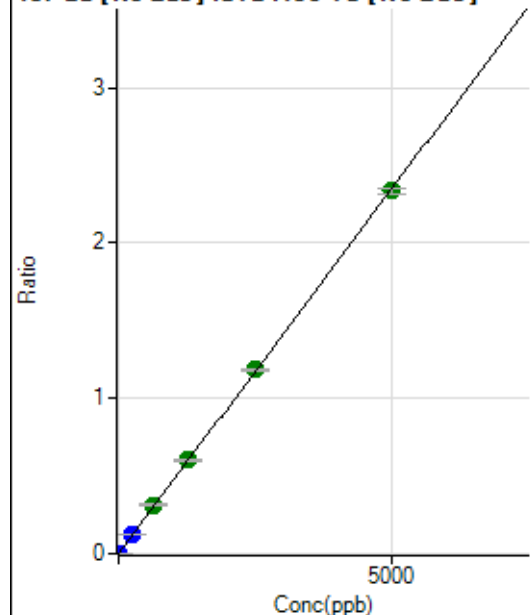
$$DL = 0.01983$$

$$BEC = 0.03616$$

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	130.00	0.0000	P	24.5
2	☐	10.000	9.923	31944.83	0.0047	P	4.4
3	☐	250.000	253.710	790584.40	0.1190	P	1.2
4	☐	625.000	668.775	2077752.95	0.3137	A	2.6
5	☐	1250.000	1279.569	4041517.55	0.6001	A	1.0
6	☐	2500.000	2520.846	7662496.76	1.1823	A	0.7
7	☐	5000.000	4976.527	15457899.08	2.3340	A	1.5
8	☐			5730.09	0.0009	P	3.0

$$y = 4.6901\text{E-}004 * x + 1.9136\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.03001$$

$$BEC = 0.0408$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	78.1
2	☐			4.44		P	43.4
3	☐			32.22		P	48.9
4	☐			91.11		P	24.4
5	☐			150.00		P	24.4
6	☐			276.67		P	4.8
7	☐			490.01		P	1.4
8	☐			134.45		P	3.8

150 Nd [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	☐			7.78		P	65.5
4	☐			15.56		P	32.7
5	☐			35.56		P	23.6
6	☐			44.45		P	43.9
7	☐			96.67		P	23.9
8	☐			91.11		P	17.3

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			410.01		P	8.9
2	☐			416.68		P	13.9
3	☐			353.34		P	8.6
4	☐			337.79		P	6.6
5	☐			355.56		P	12.9
6	☐			346.67		P	5.8
7	☐			407.79		P	6.1
8	☐			474.46		P	12.4

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			187.78		P	16.5
2	☐			167.78		P	7.5
3	☐			163.34		P	4.1
4	☐			174.45		P	6.7
5	☐			195.56		P	14.5
6	☐			251.12		P	9.6
7	☐			458.90		P	12.2
8	☐			262.23		P	7.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18.89		P	27.0
2	☐			20.00		P	33.4
3	☐			20.00		P	116.
4	☐			40.00		P	22.0
5	☐			30.00		P	11.1
6	☐			58.89		P	41.0
7	☐			104.44		P	4.9
8	☐			207.78		P	16.1

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			215.56		P	3.6
2	☐			223.34		P	16.8
3	☐			213.34		P	15.4
4	☐			202.23		P	12.5
5	☐			196.67		P	3.4
6	☐			216.67		P	12.0
7	☐			215.56		P	6.2
8	☐			322.23		P	13.1

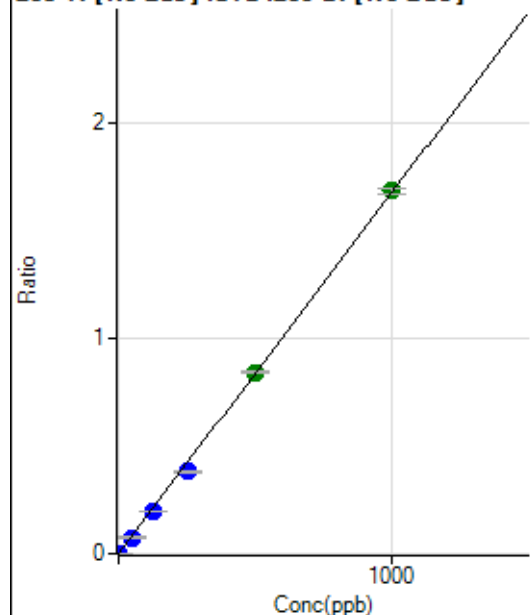
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			31.11		P	60.9
2	☐			28.89		P	26.6
3	☐			18.89		P	27.0
4	☐			35.55		P	19.5
5	☐			41.11		P	36.6
6	☐			55.56		P	15.1
7	☐			118.89		P	32.3
8	☐			248.89		P	10.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	52.9
2	☐			10.00		P	57.7
3	☐			26.66		P	43.3
4	☐			12.22		P	15.7
5	☐			28.89		P	43.7
6	☐			44.44		P	28.4
7	☐			73.33		P	35.5
8	☐			148.89		P	30.4

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	282.23	0.0001	P	12.2
2	☐	1.000	0.927	6709.49	0.0016	P	9.3
3	☐	50.000	45.066	310227.55	0.0756	P	2.7
4	☐	125.000	116.937	789976.49	0.1960	P	0.4
5	☐	250.000	227.281	1558149.94	0.3809	P	1.1
6	☐	500.000	502.666	3328847.97	0.8423	A	0.8
7	☐	1000.000	1005.602	6741605.80	1.6849	A	1.4
8	☐			848.92	0.0002	P	10.4

$$y = 0.0017 * x + 6.8433E-005$$

$$R = 0.9997$$

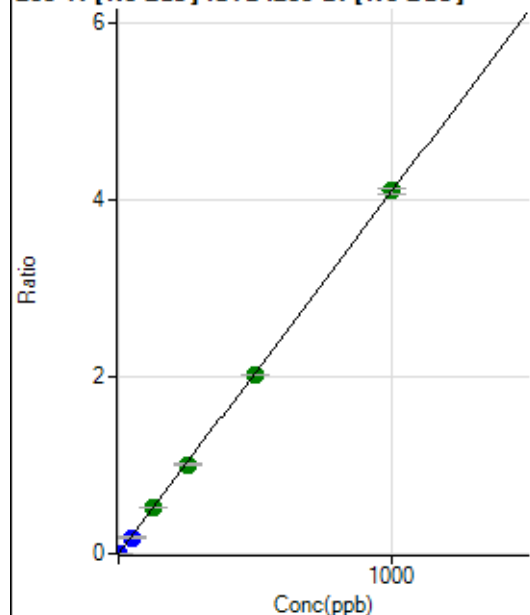
$$DL = 0.015$$

$$BEC = 0.04084$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	692.25	0.0002	P	4.6
2	☐	1.000	0.879	15563.45	0.0038	P	4.0
3	☐	50.000	44.987	754801.20	0.1838	P	1.7
4	☐	125.000	127.238	2094345.54	0.5197	A	1.8
5	☐	250.000	247.024	4127017.33	1.0088	A	0.3
6	☐	500.000	495.594	7997992.52	2.0237	A	0.1
7	☐	1000.000	1002.918	16385001.01	4.0951	A	1.9
8	☐			1963.50	0.0006	P	9.7

$$y = 0.0041 * x + 1.6790E-004$$

$$R = 1.0000$$

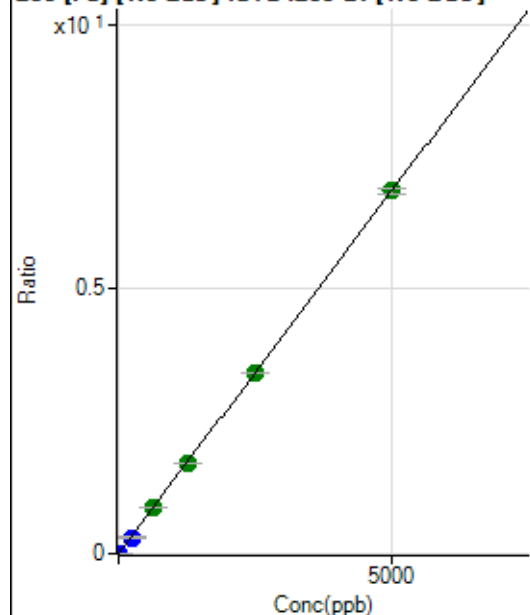
$$DL = 0.005671$$

$$BEC = 0.04112$$

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	320.01	0.0001	P	8.9
2	☐	1.000	0.914	5503.38	0.0013	P	2.1
3	☐	250.000	224.093	1259195.62	0.3068	P	4.1
4	☐	625.000	643.043	3547808.59	0.8803	A	1.2
5	☐	1250.000	1246.505	6980219.41	1.7063	A	0.7
6	☐	2500.000	2493.427	13489357.16	3.4130	A	0.7
7	☐	5000.000	5003.200	27401249.59	6.8483	A	1.4
8	☐			5619.00	0.0016	P	5.6

$$y = 0.0014 * x + 7.7581E-005$$

$$R = 1.0000$$

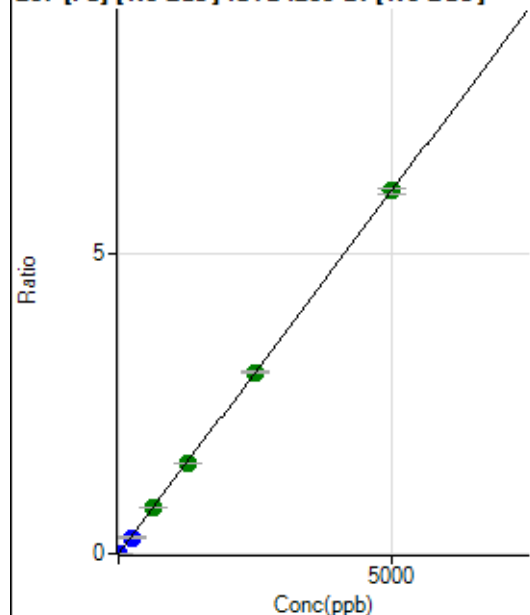
$$DL = 0.01517$$

$$BEC = 0.05668$$

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	333.34	0.0001	P	12.0
2	☐	1.000	0.883	4767.55	0.0012	P	4.4
3	☐	250.000	223.149	1110333.73	0.2704	P	1.9
4	☐	625.000	642.585	3138055.75	0.7786	A	1.3
5	☐	1250.000	1238.470	6139087.75	1.5006	A	0.7
6	☐	2500.000	2502.112	11982203.02	3.0316	A	1.0
7	☐	5000.000	5000.971	24243994.08	6.0593	A	1.6
8	☐			4975.40	0.0014	P	7.3

$$y = 0.0012 * x + 8.0818E-005$$

$$R = 1.0000$$

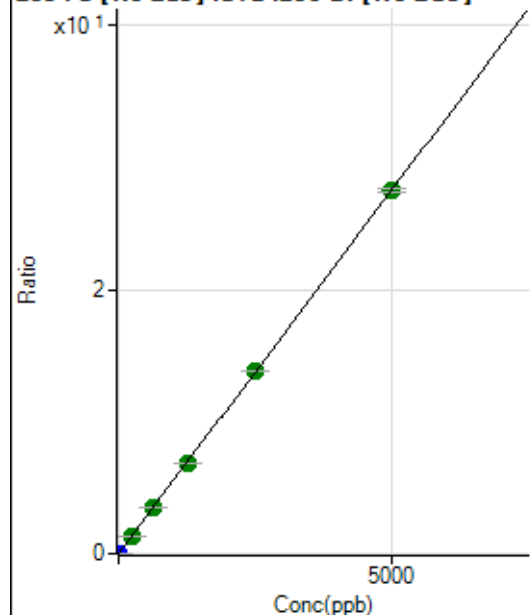
$$DL = 0.02393$$

$$BEC = 0.0667$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1406.71	0.0003	P	11.0
2	☐	1.000	0.893	21762.55	0.0053	P	4.5
3	☐	250.000	239.393	5407395.66	1.3172	A	1.9
4	☐	625.000	642.833	14252653.75	3.5363	A	1.0
5	☐	1250.000	1247.753	28080064.44	6.8638	A	0.4
6	☐	2500.000	2510.448	54579176.41	13.8094	A	0.7
7	☐	5000.000	4993.639	109906119.4	27.4684	A	1.2
8	☐			22211.70	0.0063	P	6.1

$$y = 0.0055 * x + 3.4110E-004$$

$$R = 1.0000$$

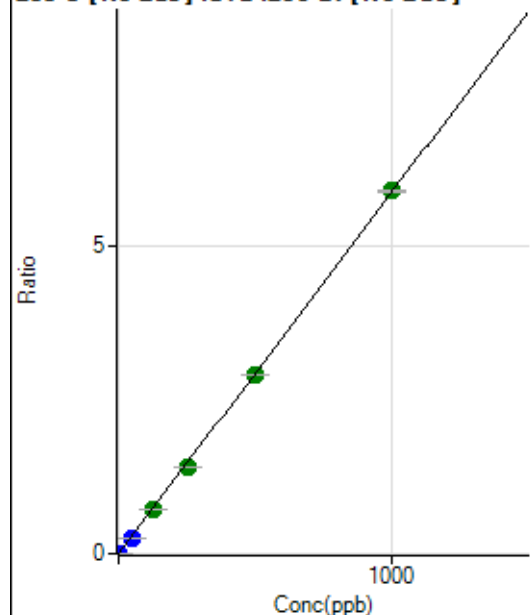
$$DL = 0.02044$$

$$BEC = 0.06201$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	370.01	0.0001	P	4.5
2	☐	1.000	0.819	20282.17	0.0049	P	4.0
3	☐	50.000	41.300	995302.52	0.2425	P	3.7
4	☐	125.000	122.138	2889724.99	0.7170	A	1.6
5	☐	250.000	240.793	5782294.08	1.4134	A	0.9
6	☐	500.000	496.172	11510017.75	2.9123	A	0.7
7	☐	1000.000	1005.008	23602375.48	5.8988	A	0.7
8	☐			1326.75	0.0004	P	19.4

$$y = 0.0059 * x + 8.9726E-005$$

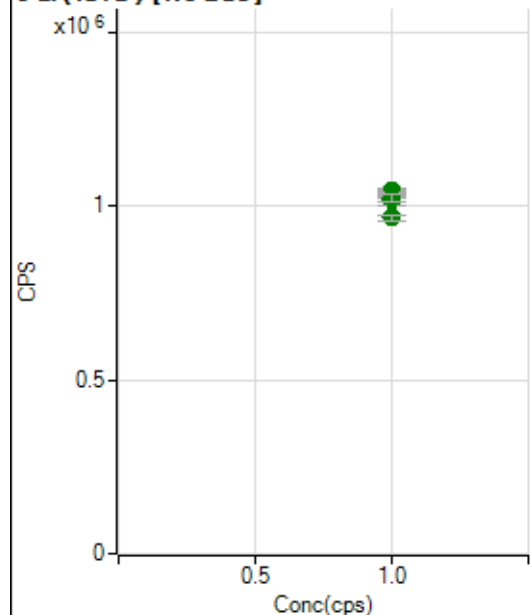
$$R = 0.9999$$

$$DL = 0.002077$$

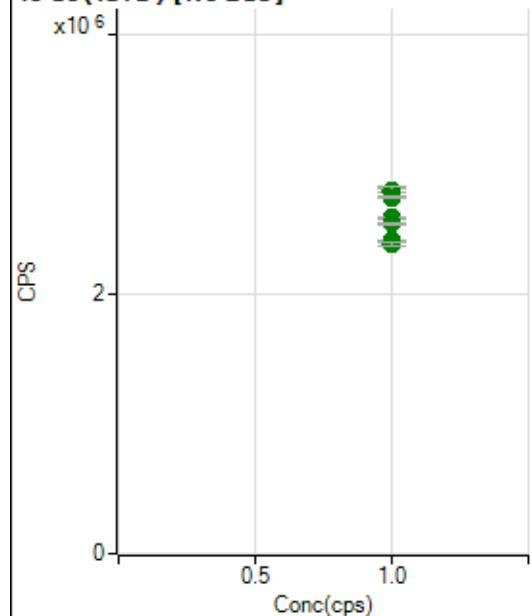
$$BEC = 0.01529$$

Weight: <None>

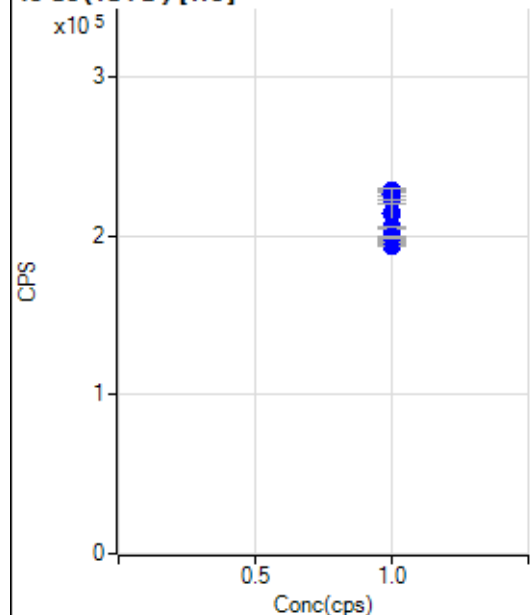
Min Conc: 0

6 Li (ISTD) [No Gas]

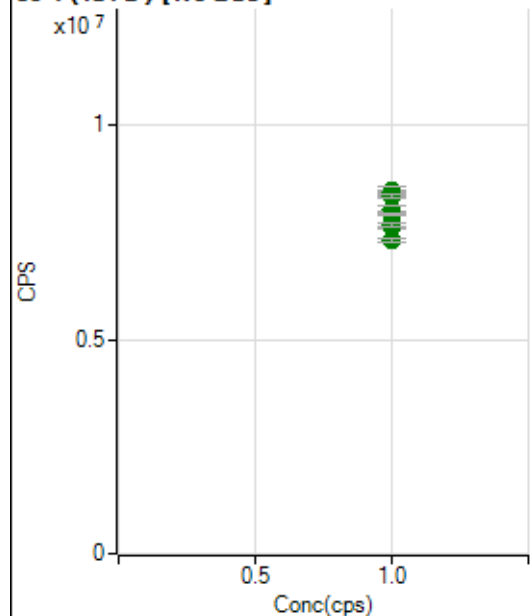
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1045008.79		A	1.0
2	☐	1.000		1040230.46		A	2.2
3	☐	1.000		1017700.33		A	3.0
4	☐	1.000		1036249.95		A	2.7
5	☐	1.000		1039932.11		A	1.5
6	☐	1.000		1037045.93		A	1.3
7	☐	1.000		1024479.26		A	2.5
8	☐	1.000		966780.49		A	1.7

45 Sc (ISTD) [No Gas]

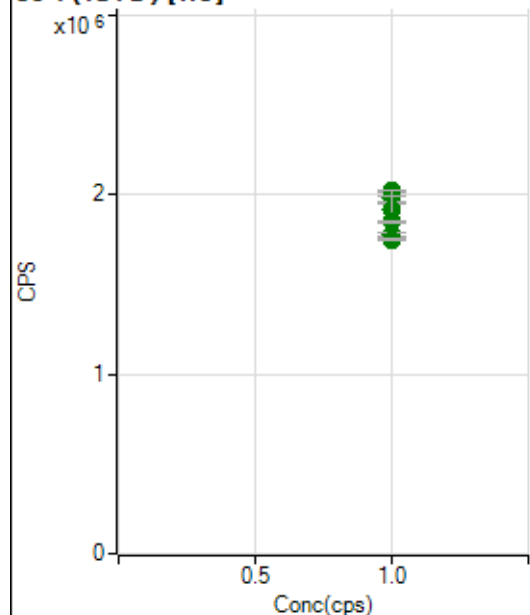
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2795129.61		A	0.9
2	☐	1.000		2792518.40		A	2.9
3	☐	1.000		2747963.22		A	0.3
4	☐	1.000		2588170.86		A	0.9
5	☐	1.000		2545292.72		A	0.5
6	☐	1.000		2413406.94		A	0.5
7	☐	1.000		2412851.08		A	0.8
8	☐	1.000		2383645.90		A	1.4

45 Sc (ISTD) [He]

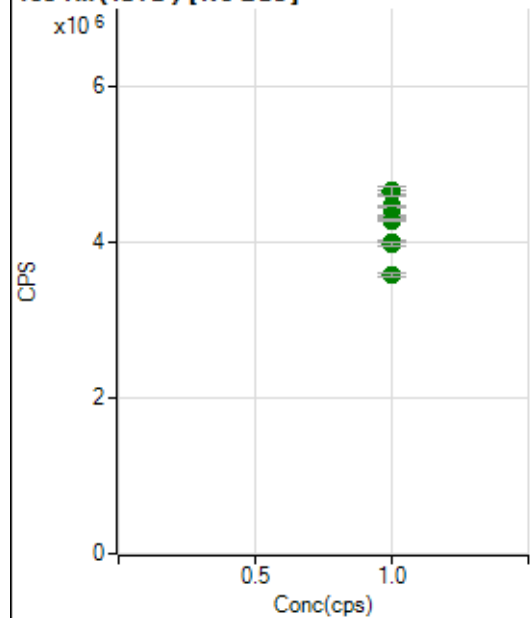
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		228346.40		P	0.4
2	☐	1.000		222283.18		P	2.3
3	☐	1.000		225907.20		P	3.2
4	☐	1.000		214082.01		P	8.5
5	☐	1.000		205156.34		P	0.3
6	☐	1.000		194013.32		P	0.7
7	☐	1.000		196964.08		P	0.5
8	☐	1.000		199413.08		P	0.7

89 Y (ISTD) [No Gas]

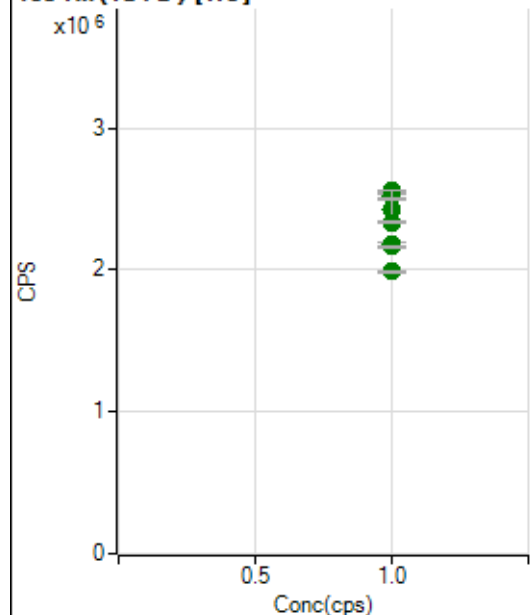
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8475045.64		A	0.5
2	☐	1.000		8467030.36		A	2.5
3	☐	1.000		8342809.11		A	0.9
4	☐	1.000		8062077.94		A	2.1
5	☐	1.000		7920082.10		A	0.9
6	☐	1.000		7627558.98		A	0.5
7	☐	1.000		7677644.19		A	0.7
8	☐	1.000		7324048.29		A	0.7

89 Y(ISTD) [He]

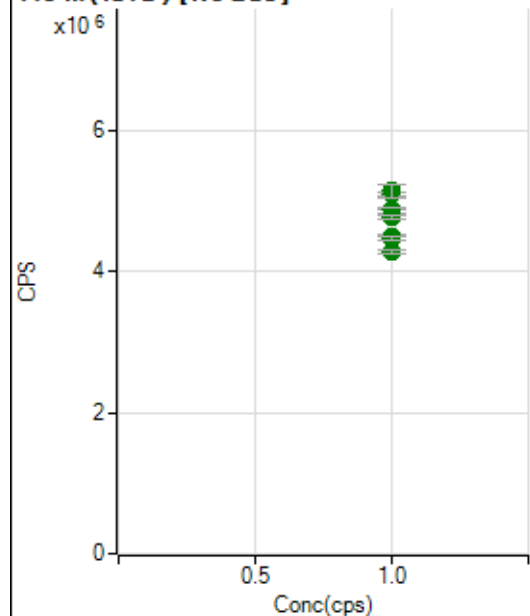
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2023209.27		A	0.7
2	☐	1.000		1984003.43		A	3.2
3	☐	1.000		1993652.71		A	3.6
4	☐	1.000		1920180.11		A	8.1
5	☐	1.000		1850772.63		A	0.4
6	☐	1.000		1765969.63		A	0.9
7	☐	1.000		1778618.32		A	1.3
8	☐	1.000		1753132.00		A	0.8

103 Rh(ISTD) [No Gas]

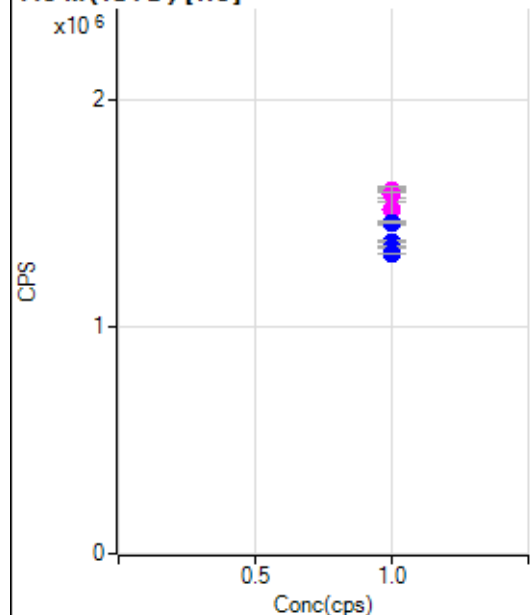
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4641529.65		A	0.7
2	☐	1.000		4659139.03		A	2.7
3	☐	1.000		4458781.01		A	0.4
4	☐	1.000		4335375.28		A	1.1
5	☐	1.000		4279757.61		A	0.8
6	☐	1.000		4005055.60		A	0.8
7	☐	1.000		3971415.98		A	1.3
8	☐	1.000		3585215.40		A	1.3

103 Rh (ISTD) [He]

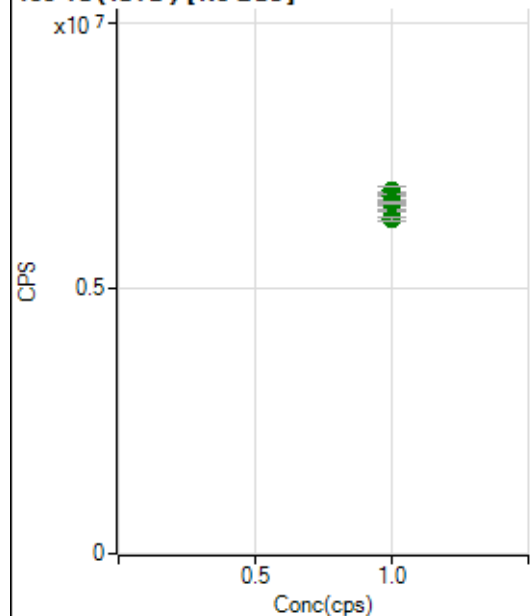
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2557780.24		A	0.7
2	☐	1.000		2515771.66		A	1.8
3	☐	1.000		2527725.67		A	3.1
4	☐	1.000		2424368.07		A	6.8
5	☐	1.000		2338531.72		A	0.5
6	☐	1.000		2178594.15		A	1.4
7	☐	1.000		2166689.60		A	0.4
8	☐	1.000		1988213.58		A	0.8

115 In (ISTD) [No Gas]

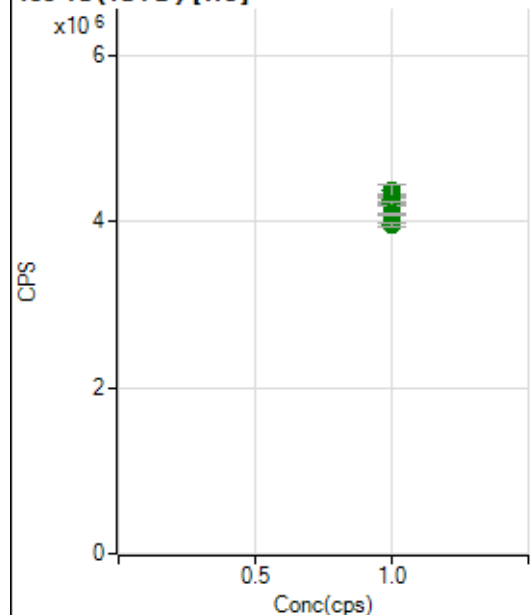
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5100242.49		A	0.7
2	☐	1.000		5144517.41		A	3.5
3	☐	1.000		4892182.69		A	1.0
4	☐	1.000		4870688.87		A	1.3
5	☐	1.000		4776372.57		A	0.9
6	☐	1.000		4511105.63		A	0.2
7	☐	1.000		4479384.97		A	1.1
8	☐	1.000		4291429.62		A	1.3

115 In (ISTD) [He]

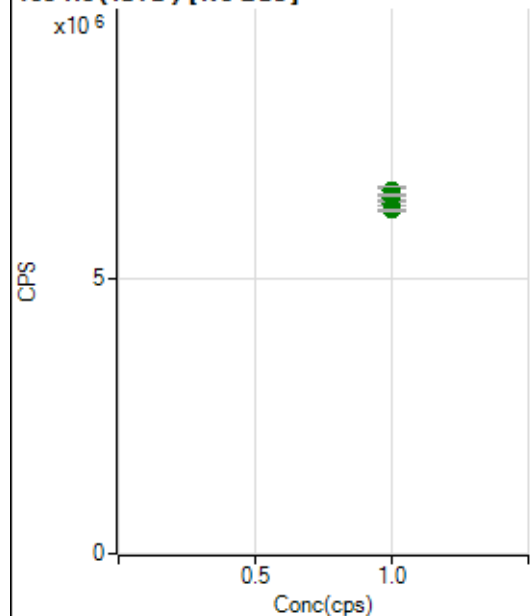
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1601115.55		M	1.0
2	☐	1.000		1587791.83		M	2.6
3	☐	1.000		1584274.36		M	4.2
4	☐	1.000		1523069.96		M	9.0
5	☐	1.000		1463464.54		P	0.6
6	☐	1.000		1378579.41		P	0.4
7	☐	1.000		1352683.47		P	0.2
8	☐	1.000		1326378.99		P	0.1

159 Tb (ISTD) [No Gas]

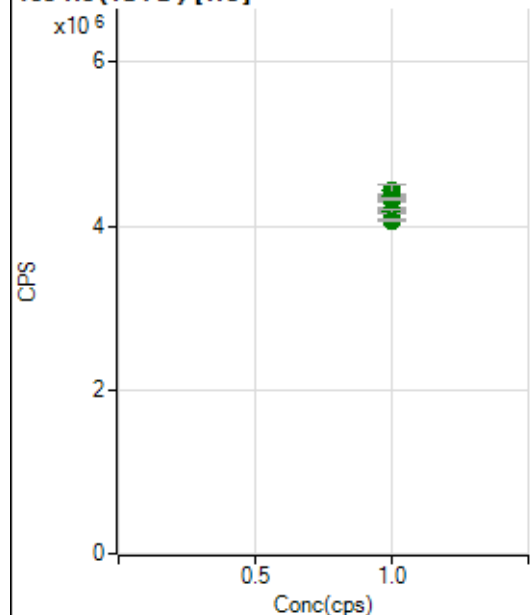
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6793862.82		A	0.3
2	☐	1.000		6841362.33		A	2.8
3	☐	1.000		6642989.62		A	0.3
4	☐	1.000		6624907.26		A	1.8
5	☐	1.000		6734821.63		A	1.4
6	☐	1.000		6480818.93		A	0.5
7	☐	1.000		6622797.89		A	0.2
8	☐	1.000		6313753.66		A	0.9

159 Tb (ISTD) [He]

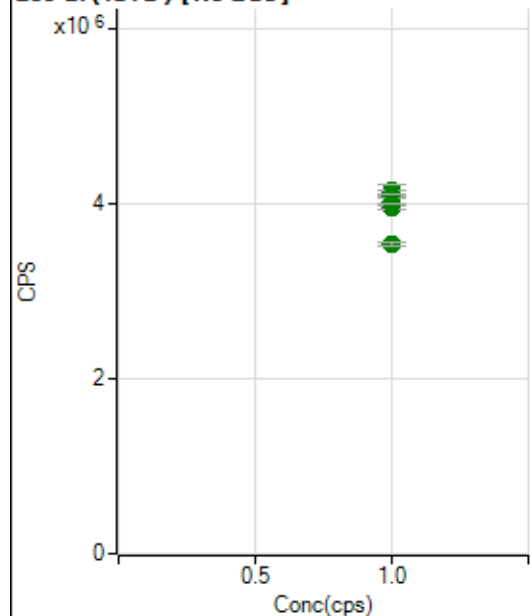
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4336185.04		A	0.1
2	☐	1.000		4258692.40		A	2.0
3	☐	1.000		4372399.59		A	3.4
4	☐	1.000		4268900.84		A	8.1
5	☐	1.000		4215974.69		A	1.1
6	☐	1.000		4092008.97		A	0.5
7	☐	1.000		4089098.52		A	0.4
8	☐	1.000		3962428.87		A	1.5

165 Ho (ISTD) [No Gas]

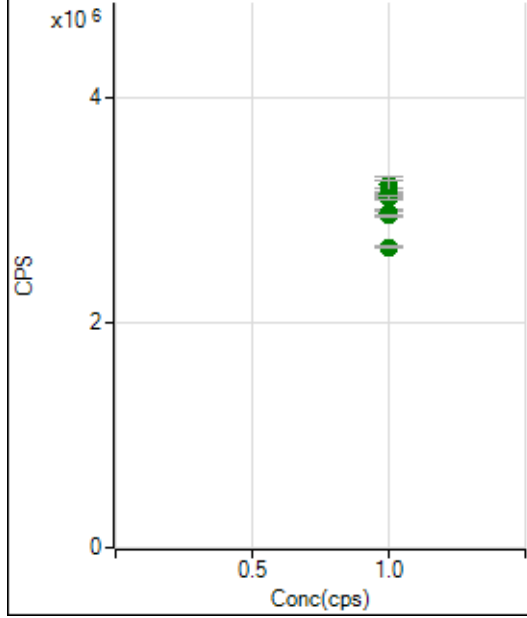
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6611251.64		A	1.2
2	☐	1.000		6616551.15		A	2.6
3	☐	1.000		6478890.81		A	1.5
4	☐	1.000		6493149.97		A	1.9
5	☐	1.000		6513947.68		A	1.4
6	☐	1.000		6375448.72		A	1.3
7	☐	1.000		6536810.67		A	0.8
8	☐	1.000		6272769.07		A	0.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4382825.07		A	0.5
2	☐	1.000		4341814.24		A	2.0
3	☐	1.000		4426587.40		A	3.6
4	☐	1.000		4359873.27		A	6.4
5	☐	1.000		4326709.97		A	0.6
6	☐	1.000		4164490.29		A	0.3
7	☐	1.000		4184137.78		A	1.1
8	☐	1.000		4067465.88		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4123960.18		A	1.1
2	☐	1.000		4145549.14		A	3.3
3	☐	1.000		4106346.26		A	2.2
4	☐	1.000		4030798.69		A	1.7
5	☐	1.000		4091181.26		A	1.2
6	☐	1.000		3952170.98		A	1.0
7	☐	1.000		4001266.40		A	0.3
8	☐	1.000		3545580.82		A	1.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3161821.38		A	0.5
2	☐	1.000		3150721.69		A	2.5
3	☐	1.000		3225651.76		A	4.4
4	☐	1.000		3139753.74		A	8.2
5	☐	1.000		3113058.88		A	0.8
6	☐	1.000		2972820.72		A	0.9
7	☐	1.000		2951384.37		A	0.8
8	☐	1.000		2667530.52		A	0.6

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7100724-MS6.b

Acq. Date-Time 2024-10-07 17:11:59

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		3073	30734.45			0.654	5.000
24		105671	1056709.22			0.320	5.000
25		13577	135770.98			0.627	5.000
26		15395	153950.12			0.573	5.000
59		28150	281503.32			0.561	5.000
113		2334	23343.72			0.565	5.000
115		52714	527140.56			0.788	5.000
206		11793	117929.01			0.714	5.000
207		9888	98876.10			1.057	5.000
208		23761	237609.81			0.735	5.000
220		0	4.60			32.061	

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

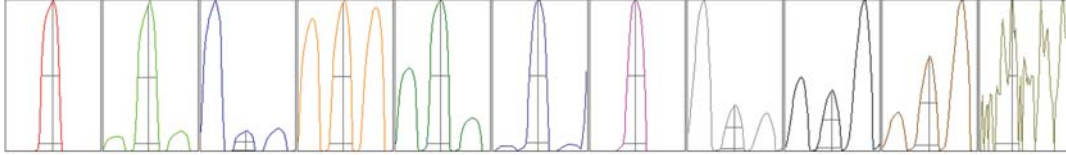
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3088	3080	3085	3039	3075
24	105777	105547	106011	105147	105873
25	13517	13528	13611	13518	13712
26	15360	15371	15396	15306	15541
59	28202	28094	28271	27902	28283
113	2348	2347	2334	2320	2323
115	53037	52942	52831	51995	52765
206	11799	11847	11849	11647	11823
207	9921	9972	9903	9706	9935
208	23709	23949	23756	23501	23889

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5785.22	9.00	8.90 - 9.10	
24	186459.43	23.95	23.90 - 24.10	
25	24464.16	24.95	24.90 - 25.10	
26	27808.72	25.95	25.90 - 26.10	
59	49434.37	58.95	58.90 - 59.10	
113	4483.49	112.95	112.90 - 113.10	
115	101568.72	114.95	114.90 - 115.10	
206	23022.14	206.00	205.90 - 206.10	
207	19141.02	207.00	206.90 - 207.10	
208	47116.74	208.00	207.90 - 208.10	
220	0.80	219.55	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.56	0.727	0.900	
24	0.60	0.778	0.900	
25	0.59	0.707	0.900	
26	0.59	0.737	0.900	
59	0.59	0.732	0.900	
113	0.53	0.733	0.900	
115	0.53	0.738	0.900	
206	0.53	0.741	0.900	
207	0.52	0.767	0.900	
208	0.52	0.766	0.900	
220	0.28	0.740		

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	7.8 V	Deflect	16.4 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	200 V		

QP Parameters

Mass Gain	135	Axis Gain	0.9979	QP Bias	-3.0 V
Mass Offset	131	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	-0.5 mm	Torch V	0.7 mm
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EM

Discriminator	4.9 mV	Analog HV	2385 V	Pulse HV	1685 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		8990	89904.37			0.399	
89		84552	845523.35			0.707	
205		27535	275348.47			0.513	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	9023	9034	8957	8963	8974
89	84855	85352	84361	83745	84449
205	27670	27694	27503	27384	27423

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	8.5 V	Deflect	3.6 V
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US EPA Tune Check Report

Extract 2	-115.0 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	200 V		

QP Parameters

Mass Gain	135	Axis Gain	0.9979	QP Bias	-13.0 V
Mass Offset	131	Axis Offset	0.10		

Hardware Settings

Torch

Torch H	-0.5 mm	Torch V	0.7 mm
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EM

Discriminator	4.9 mV	Analog HV	2385 V	Pulse HV	1685 V
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