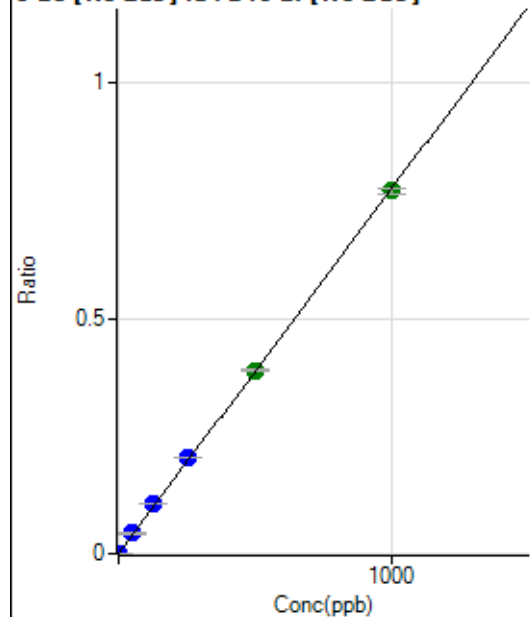


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7120623 MS.b\
Analysis File: P7120623 MS.batch.bin
DA Date-Time: 2023-12-06 18:50:25
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-12-06 14:12:20
2	006CALS.d	S02	2023-12-06 14:18:51
3	007CALS.d	S03	2023-12-06 14:22:05
4	008CALS.d	S04	2023-12-06 14:25:10
5	009CALS.d	S05	2023-12-06 14:28:03
6	010CALS.d	S06	2023-12-06 14:30:52
7	011CALS.d	S07	2023-12-06 14:33:39
8	012CALS.d	S08	2023-12-06 14:36:26

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	131.11	0.0000	P	12.8
2	☐	1.000	1.086	2582.46	0.0009	P	2.2
3	☐	50.000	55.755	128866.39	0.0432	P	1.9
4	☐	125.000	135.716	314173.64	0.1052	P	0.8
5	☐	250.000	263.194	598001.24	0.2039	P	0.9
6	☐	500.000	501.513	1135308.79	0.3886	A	1.4
7	☐	1000.000	994.318	2206498.47	0.7703	A	1.8
8	☐			855.59	0.0003	P	20.4

$$y = 7.7469\text{E-}004 * x + 4.4357\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.02201$$

$$BEC = 0.05726$$

Weight: <None>

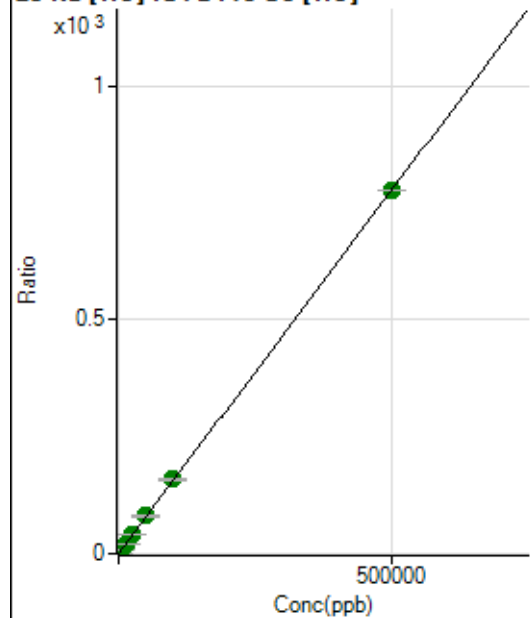
Min Conc: 0

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	18750.37	0.0472	P	0.8
2	☐	500.000	515.312	343116.72	0.8484	P	0.5
3	☐	5000.000	5269.338	3218946.62	8.2402	A	1.2
4	☐	12500.000	13145.096	7556076.97	20.4859	A	1.3
5	☐	25000.000	26137.396	14801059.64	40.6870	A	0.3
6	☐	50000.000	51627.740	29864577.05	80.3208	A	0.3
7	☐	100000.00	102264.23	58960495.23	159.0532	A	1.5
8	☐	500000.00	499308.67	271873362.6	776.3995	A	0.1

$$y = 0.0016 * x + 0.0472$$

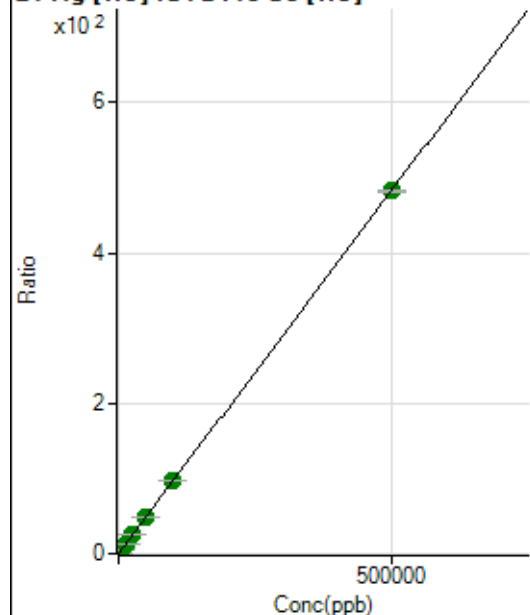
$$R = 1.0000$$

$$DL = 0.7087$$

$$BEC = 30.34$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	168.89	0.0004	P	13.1
2	☐	500.000	518.290	202610.35	0.5010	P	0.7
3	☐	5000.000	5314.033	2005073.35	5.1327	A	0.7
4	☐	12500.000	13103.869	4668196.81	12.6561	A	1.5
5	☐	25000.000	25862.160	9086431.25	24.9780	A	0.6
6	☐	50000.000	51259.379	18407352.50	49.5066	A	0.7
7	☐	100000.00	100612.89	36021693.35	97.1721	A	1.3
8	☐	500000.00	499690.11	168991283.0	482.5999	A	0.4

$$y = 9.6580E-004 * x + 4.2474E-004$$

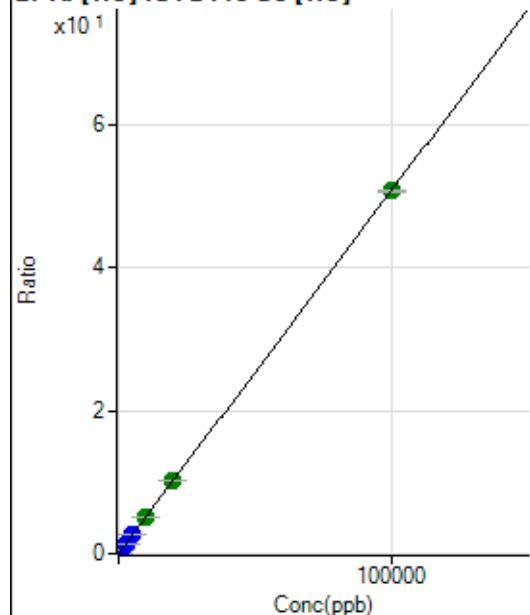
$$R = 1.0000$$

$$DL = 0.1726$$

$$BEC = 0.4398$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	190.00	0.0005	P	15.3
2	☐	20.000	20.024	4305.10	0.0106	P	3.6
3	☐	1000.000	1117.165	221757.24	0.5677	P	0.6
4	☐	2500.000	2696.874	505226.09	1.3697	P	0.9
5	☐	5000.000	5351.094	988461.38	2.7172	P	0.2
6	☐	10000.000	10255.636	1936143.67	5.2073	A	0.6
7	☐	20000.000	20259.003	3813139.80	10.2860	A	0.4
8	☐	100000.00	99898.988	17760109.46	50.7191	A	0.6

$$y = 5.0770E-004 * x + 4.7800E-004$$

$$R = 1.0000$$

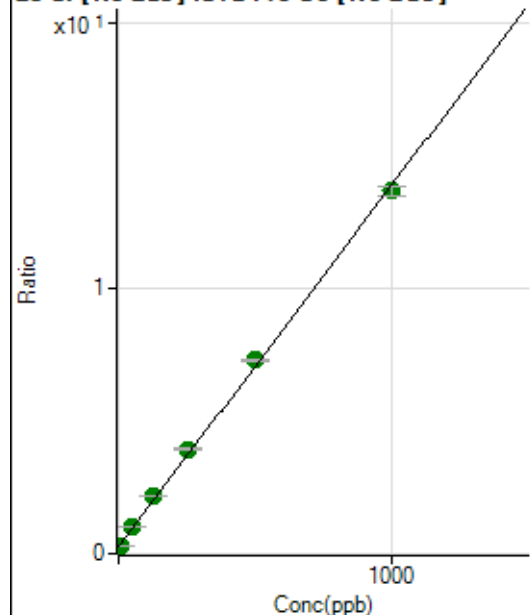
$$DL = 0.4319$$

$$BEC = 0.9415$$

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	1440225.64	0.2741	A	2.6
2	☐	10.000	-0.105	1444974.81	0.2727	A	2.5
3	☐	50.000	56.485	5439957.98	1.0422	A	0.6
4	☐	125.000	138.341	10747969.28	2.1552	A	0.5
5	☐	250.000	269.424	19196208.88	3.9376	A	0.8
6	☐	500.000	515.603	36148961.69	7.2851	A	1.2
7	☐	1000.000	985.452	67136071.22	13.6739	A	3.0
8	☐			1419874.13	0.3097	A	0.9

$$y = 0.0136 * x + 0.2741$$

$$R = 0.9994$$

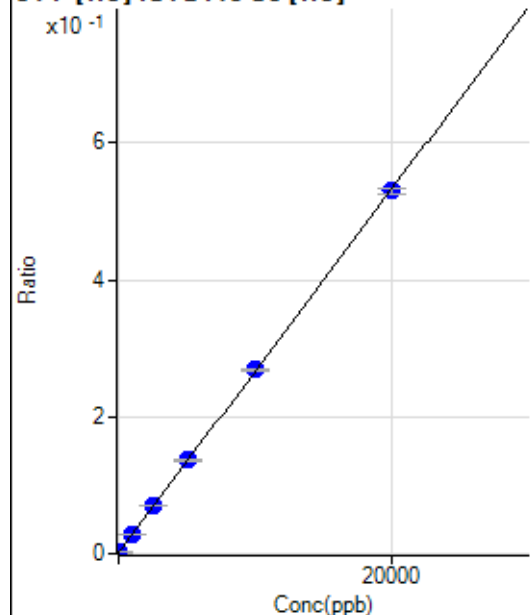
$$DL = 1.546$$

$$BEC = 20.16$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-13.215	354.45	0.0009	P	9.3
2	☐	0.000	13.215	644.47	0.0016	P	5.4
3	☐	1000.000	1048.134	11359.85	0.0291	P	1.2
4	☐	2500.000	2576.885	25699.45	0.0697	P	1.9
5	☐	5000.000	5108.907	49810.67	0.1369	P	1.2
6	☐	10000.000	10087.448	100070.99	0.2691	P	0.8
7	☐	20000.000	19917.032	196539.56	0.5302	P	1.4
8	☐			367.79	0.0011	P	12.9

$$y = 2.6558E-005 * x + 0.0012$$

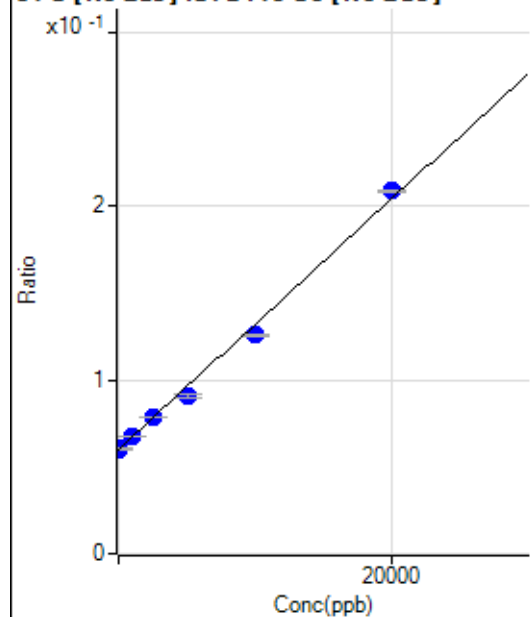
$$R = 1.0000$$

$$DL = 9.576$$

$$BEC = 46.79$$

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	-38.704	313828.41	0.0597	P	0.7
2	☐	0.000	38.704	319515.66	0.0603	P	1.3
3	☐	1000.000	1024.807	351789.57	0.0674	P	0.5
4	☐	2500.000	2569.160	391615.67	0.0785	P	1.0
5	☐	5000.000	4291.991	443303.87	0.0909	P	2.0
6	☐	10000.000	9088.458	622681.23	0.1255	P	1.3
7	☐	20000.000	20622.888	1024294.59	0.2086	P	0.9
8	☐			250852.33	0.0547	P	3.1

$$y = 7.2047\text{E-}006 * x + 0.0600$$

$$R = 0.9977$$

$$DL = 250.5$$

$$BEC = 8329$$

Weight: <None>

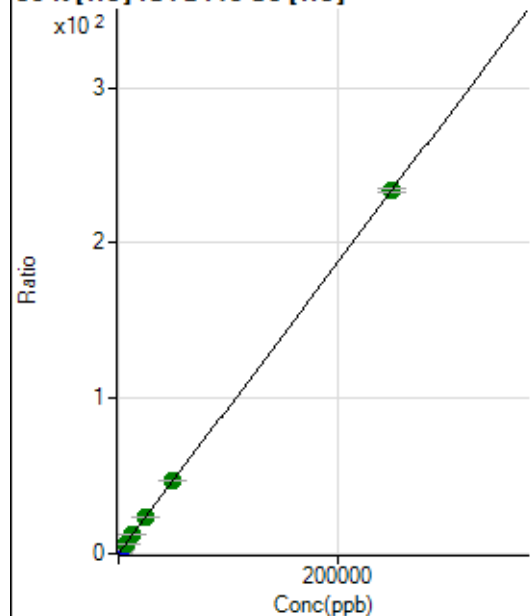
Min Conc: 0

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	56949.24	0.1433	P	0.7
2	☐	500.000	521.360	254789.75	0.6300	P	0.8
3	☐	2500.000	2747.299	1057948.73	2.7082	P	0.2
4	☐	6250.000	6431.863	2267653.42	6.1481	A	1.4
5	☐	12500.000	12756.942	4384617.37	12.0532	A	0.7
6	☐	25000.000	25116.373	8771902.65	23.5921	A	0.8
7	☐	50000.000	50122.486	17399765.30	46.9379	A	1.3
8	☐	250000.00	249943.95	81759778.78	233.4923	A	1.0

$$y = 9.3361\text{E-}004 * x + 0.1433$$

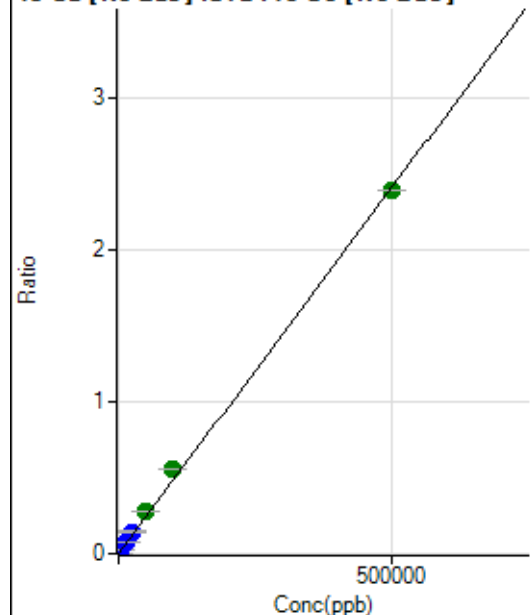
$$R = 1.0000$$

$$DL = 3.132$$

$$BEC = 153.5$$

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	647.80	0.0001	P	6.3
2	☐	500.000	520.516	13949.85	0.0026	P	3.4
3	☐	5000.000	6181.797	156206.89	0.0299	P	0.8
4	☐	12500.000	15339.735	369408.86	0.0741	P	0.7
5	☐	25000.000	29994.112	705498.17	0.1447	P	1.8
6	☐	50000.000	57621.322	1379113.44	0.2779	A	0.4
7	☐	100000.00	114435.62	2709839.84	0.5518	A	0.1
8	☐	500000.00	496018.20	10963853.73	2.3914	A	0.1

$$y = 4.8210E-006 * x + 1.2330E-004$$

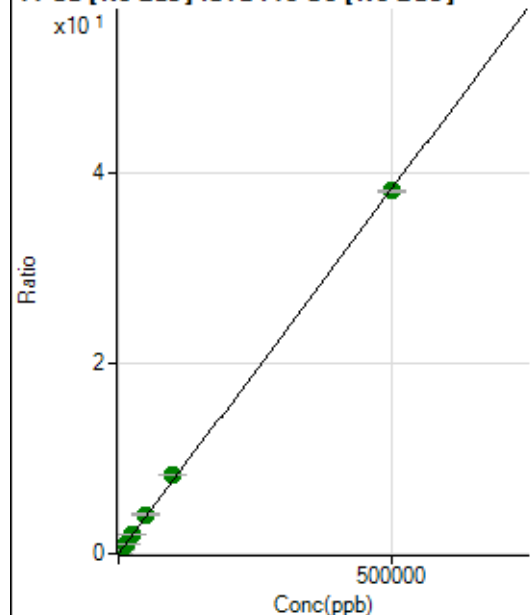
$$R = 0.9995$$

$$DL = 4.846$$

$$BEC = 25.58$$

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	17900.69	0.0034	P	1.1
2	☐	500.000	526.080	231211.02	0.0436	P	1.8
3	☐	5000.000	5662.172	2277547.85	0.4363	A	0.5
4	☐	12500.000	13875.691	5307734.40	1.0643	A	0.5
5	☐	25000.000	27155.435	10138316.73	2.0797	A	1.0
6	☐	50000.000	53832.786	20439899.97	4.1194	A	1.4
7	☐	100000.00	107904.64	40530135.78	8.2536	A	0.9
8	☐	500000.00	497886.98	174534444.0	38.0710	A	0.6

$$y = 7.6458E-005 * x + 0.0034$$

$$R = 0.9999$$

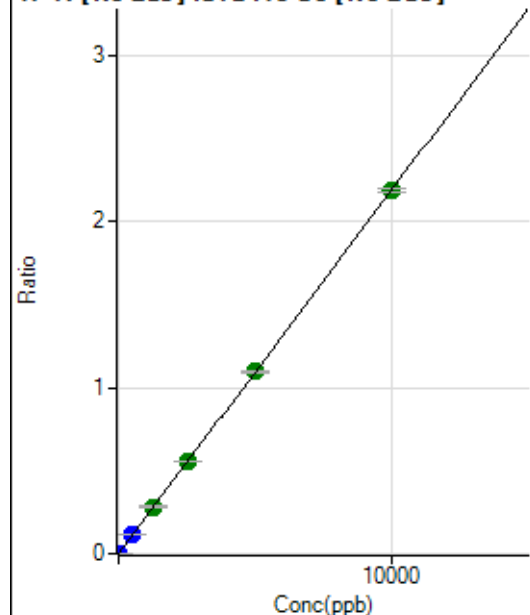
$$DL = 1.52$$

$$BEC = 44.56$$

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	104.44	0.0000	P	14.4
2	☐	5.000	5.130	6052.38	0.0011	P	2.2
3	☐	500.000	526.459	601259.42	0.1152	P	0.4
4	☐	1250.000	1283.092	1399829.43	0.2807	A	2.0
5	☐	2500.000	2546.760	2716000.83	0.5571	A	1.4
6	☐	5000.000	5002.437	5429904.85	1.0943	A	1.8
7	☐	10000.000	9981.632	10722601.93	2.1836	A	1.1
8	☐			3212.60	0.0007	P	11.6

$$y = 2.1876E-004 * x + 1.9879E-005$$

$$R = 1.0000$$

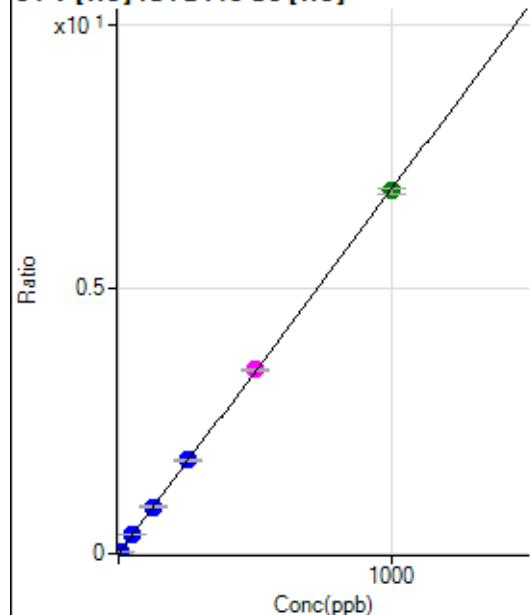
$$DL = 0.03932$$

$$BEC = 0.09087$$

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	13.33	0.0000	P	24.6
2	☐	5.000	5.062	14105.58	0.0349	P	1.1
3	☐	50.000	51.869	139498.33	0.3571	P	0.8
4	☐	125.000	128.854	327197.19	0.8871	P	0.9
5	☐	250.000	256.150	641479.92	1.7634	P	0.3
6	☐	500.000	504.675	1291786.53	3.4743	M	1.2
7	☐	1000.000	995.550	2540559.08	6.8535	A	1.4
8	☐			706.69	0.0020	P	13.2

$$y = 0.0069 * x + 3.3516E-005$$

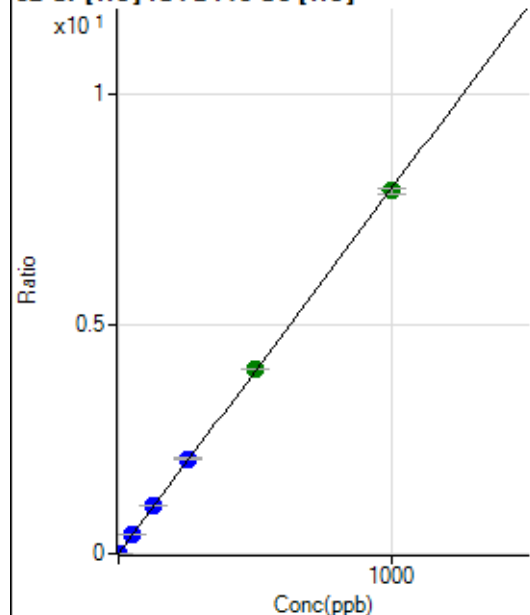
$$R = 1.0000$$

$$DL = 0.003587$$

$$BEC = 0.004869$$

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	1125.61	0.0028	P	2.1
2	☐	2.000	2.042	7705.36	0.0191	P	1.5
3	☐	50.000	52.947	165426.98	0.4235	P	0.4
4	☐	125.000	130.838	384436.84	1.0423	P	1.2
5	☐	250.000	260.285	753267.53	2.0707	P	0.3
6	☐	500.000	505.493	1494236.73	4.0187	A	0.7
7	☐	1000.000	993.805	2927837.11	7.8982	A	1.3
8	☐			8399.08	0.0240	P	0.7

$$y = 0.0079 * x + 0.0028$$

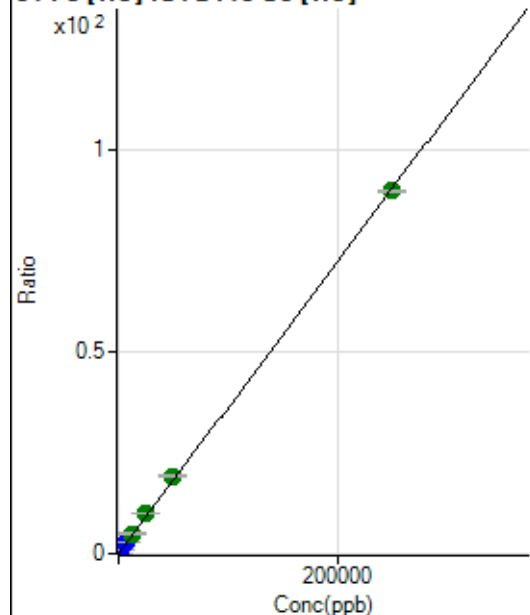
$$R = 0.9999$$

$$DL = 0.02221$$

$$BEC = 0.3565$$

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	1030.05	0.0026	P	2.3
2	☐	50.000	57.338	9423.02	0.0233	P	0.8
3	☐	2500.000	2975.726	420858.00	1.0773	P	0.6
4	☐	6250.000	7381.436	984321.23	2.6685	P	0.8
5	☐	12500.000	13769.351	1809946.21	4.9756	A	1.4
6	☐	25000.000	27271.891	3663219.29	9.8522	A	1.4
7	☐	50000.000	53254.636	7130966.84	19.2363	A	1.0
8	☐	250000.00	249025.37	31494419.53	89.9418	A	0.7

$$y = 3.6116E-004 * x + 0.0026$$

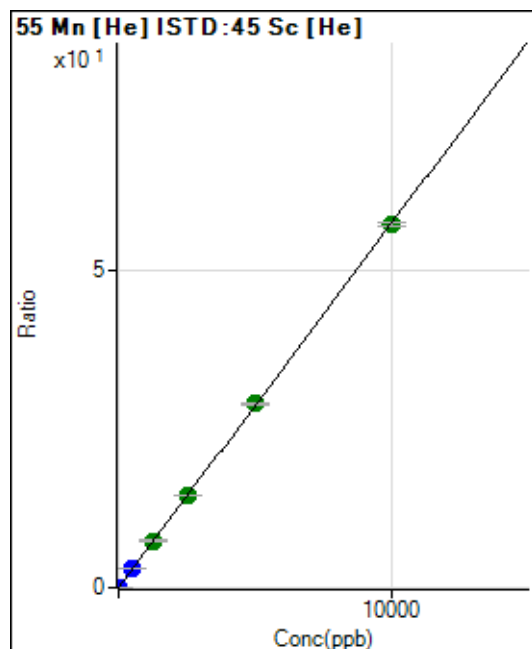
$$R = 0.9999$$

$$DL = 0.493$$

$$BEC = 7.174$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	114.45	0.0003	P	16.5
2	☐	1.000	1.000	2438.00	0.0060	P	1.8
3	☐	500.000	530.668	1189933.60	3.0461	P	0.8
4	☐	1250.000	1290.192	2731592.42	7.4055	A	0.5
5	☐	2500.000	2540.606	5304581.76	14.5823	A	0.9
6	☐	5000.000	5051.484	10780323.73	28.9937	A	1.0
7	☐	10000.000	9957.549	21186433.71	57.1525	A	1.2
8	☐			11124.50	0.0318	P	3.3

$$y = 0.0057 * x + 2.8807E-004$$

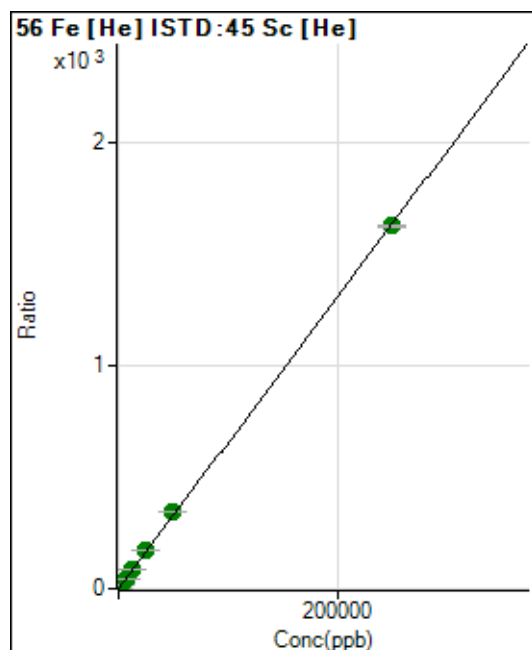
$$R = 1.0000$$

$$DL = 0.02489$$

$$BEC = 0.05019$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6319.16	0.0159	P	2.2
2	☐	50.000	56.243	155160.86	0.3837	P	0.8
3	☐	2500.000	2759.530	7055173.37	18.0604	A	0.9
4	☐	6250.000	6881.345	16603782.67	45.0129	A	0.8
5	☐	12500.000	13576.963	32301280.91	88.7955	A	0.5
6	☐	25000.000	26872.682	65341469.03	175.7360	A	0.6
7	☐	50000.000	52785.994	127958333.6	345.1828	A	1.3
8	☐	250000.00	249183.30	570567582.6	1,629.422	A	0.9

$$y = 0.0065 * x + 0.0159$$

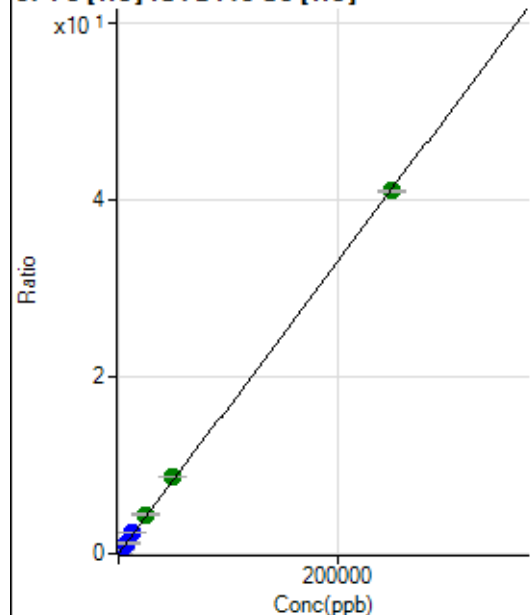
$$R = 0.9999$$

$$DL = 0.1597$$

$$BEC = 2.431$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	796.70	0.0020	P	9.6
2	☐	50.000	55.182	4487.38	0.0111	P	2.9
3	☐	2500.000	2909.675	188063.30	0.4814	P	0.5
4	☐	6250.000	7215.567	439247.94	1.1909	P	1.1
5	☐	12500.000	14300.034	857839.33	2.3582	P	0.0
6	☐	25000.000	26982.056	1653728.64	4.4477	A	1.2
7	☐	50000.000	53057.439	3241449.05	8.7440	A	0.9
8	☐	250000.00	249072.06	14370999.23	41.0404	A	0.6

$$y = 1.6477\text{E-}004 * x + 0.0020$$

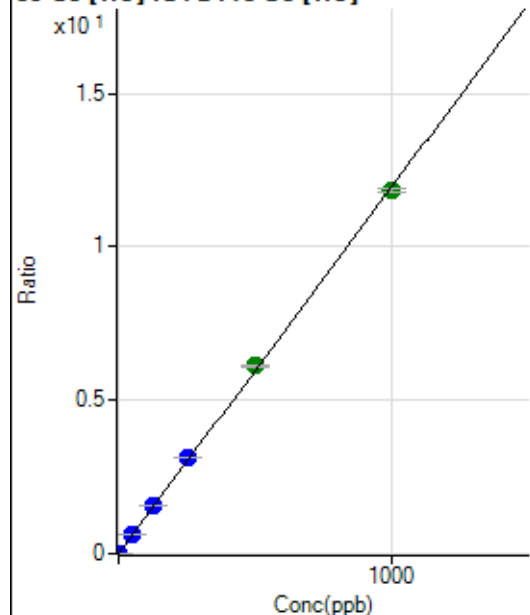
$$R = 0.9999$$

$$DL = 3.49$$

$$BEC = 12.16$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	104.45	0.0003	P	13.4
2	☐	1.000	1.070	5274.31	0.0130	P	6.0
3	☐	50.000	53.792	251013.56	0.6425	P	0.6
4	☐	125.000	131.996	581420.18	1.5763	P	0.8
5	☐	250.000	261.547	1136108.39	3.1231	P	0.7
6	☐	500.000	511.857	2272482.80	6.1118	A	0.9
7	☐	1000.000	990.121	4382545.42	11.8223	A	1.1
8	☐			12685.47	0.0362	P	1.7

$$y = 0.0119 * x + 2.6286\text{E-}004$$

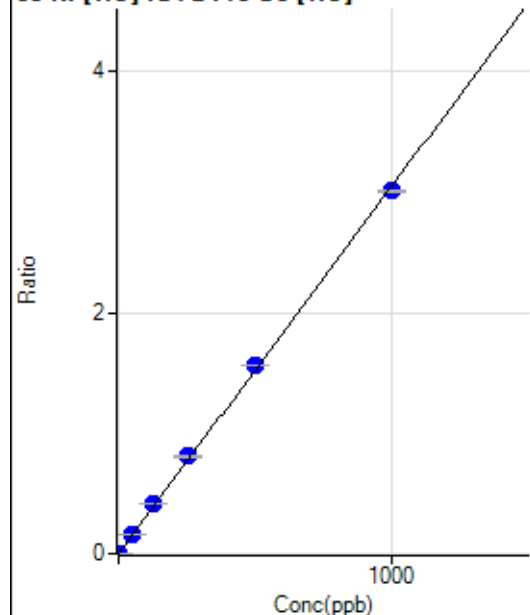
$$R = 0.9998$$

$$DL = 0.008833$$

$$BEC = 0.02202$$

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	118.89	0.0003	P	18.5
2	☐	1.000	1.070	1437.86	0.0036	P	6.2
3	☐	50.000	54.394	64804.74	0.1659	P	0.6
4	☐	125.000	134.052	150637.35	0.4084	P	0.6
5	☐	250.000	264.814	293366.62	0.8065	P	0.7
6	☐	500.000	513.247	581056.01	1.5628	P	0.4
7	☐	1000.000	988.322	1115461.03	3.0090	P	0.7
8	☐			3688.27	0.0105	P	4.3

$$y = 0.0030 * x + 2.9925E-004$$

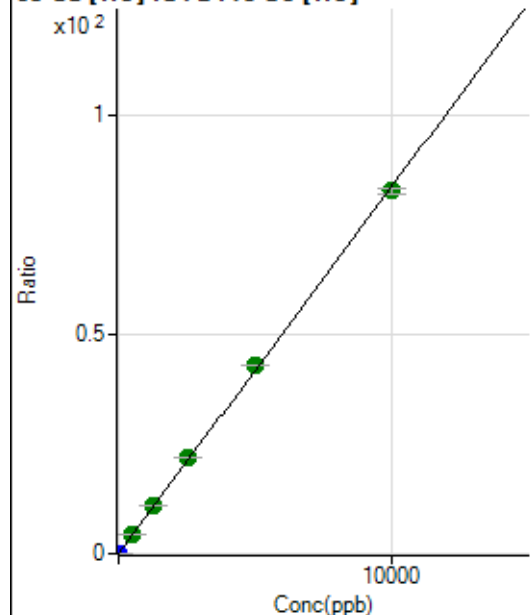
$$R = 0.9997$$

$$DL = 0.0545$$

$$BEC = 0.0983$$

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	3372.63	0.0085	P	1.2
2	☐	2.000	2.095	10527.13	0.0260	P	0.9
3	☐	500.000	543.112	1780276.55	4.5572	A	1.3
4	☐	1250.000	1325.578	4098055.04	11.1105	A	1.2
5	☐	2500.000	2625.924	8003394.74	22.0012	A	0.6
6	☐	5000.000	5133.218	15988209.76	43.0003	A	0.4
7	☐	10000.000	9890.307	30709084.82	82.8420	A	1.4
8	☐			9371.90	0.0268	P	6.4

$$y = 0.0084 * x + 0.0085$$

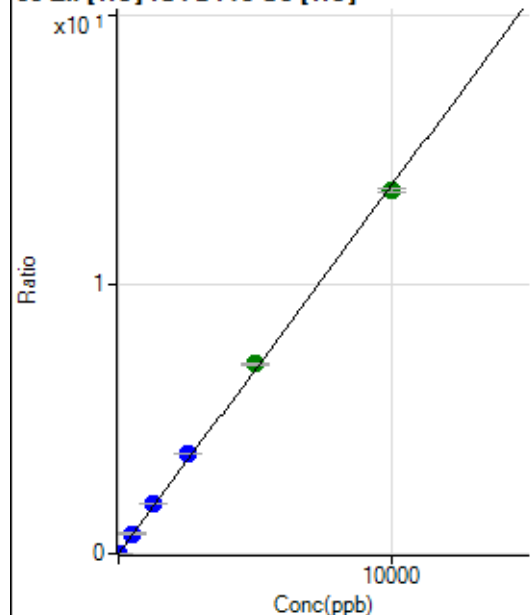
$$R = 0.9998$$

$$DL = 0.03729$$

$$BEC = 1.013$$

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	371.12	0.0009	P	18.3
2	☐	2.000	5.163	3234.83	0.0080	P	1.6
3	☐	500.000	547.098	292824.58	0.7496	P	0.7
4	☐	1250.000	1353.837	683658.68	1.8535	P	1.2
5	☐	2500.000	2701.887	1345315.92	3.6982	P	0.2
6	☐	5000.000	5154.262	2622807.13	7.0540	A	0.4
7	☐	10000.000	9857.062	5000583.33	13.4894	A	1.2
8	☐			4938.63	0.0141	P	3.8

$$y = 0.0014 * x + 9.3341E-004$$

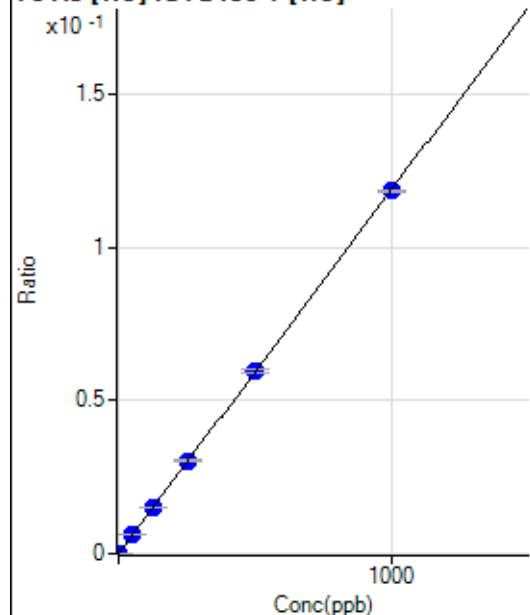
$$R = 0.9996$$

$$DL = 0.3739$$

$$BEC = 0.6821$$

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	1.047	380.01	0.0001	P	13.7
3	☐	50.000	52.588	18344.74	0.0062	P	1.7
4	☐	125.000	128.803	42667.78	0.0153	P	0.8
5	☐	250.000	255.920	84421.35	0.0304	P	0.8
6	☐	500.000	502.574	170012.22	0.0597	P	1.6
7	☐	1000.000	996.628	333884.23	0.1184	P	0.3
8	☐			133.33	0.0000	P	19.8

$$y = 1.1880E-004 * x + 3.6965E-007$$

$$R = 1.0000$$

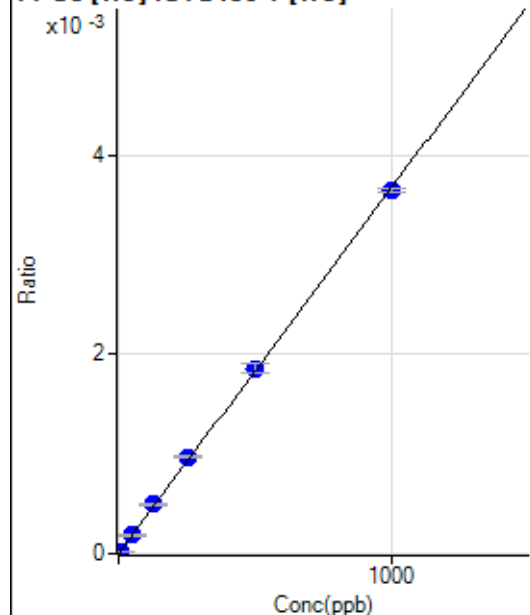
$$DL = 0.01617$$

$$BEC = 0.003111$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.269	58.89	0.0000	P	39.7
3	☐	50.000	51.898	560.02	0.0002	P	7.6
4	☐	125.000	134.870	1381.19	0.0005	P	3.3
5	☐	250.000	264.495	2696.94	0.0010	P	2.7
6	☐	500.000	506.984	5302.11	0.0019	P	5.0
7	☐	1000.000	991.554	10269.18	0.0036	P	0.9
8	☐			56.67	0.0000	P	23.6

$$y = 3.6727\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

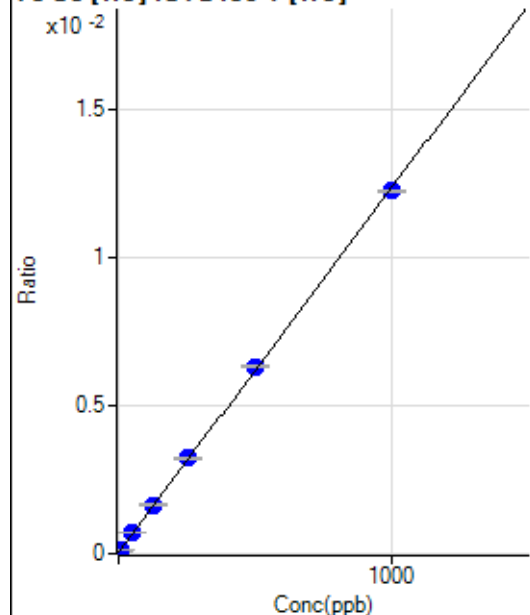
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	120.00	0.0000	P	5.4
2	☐	5.000	5.657	334.45	0.0001	P	1.3
3	☐	50.000	54.118	2075.72	0.0007	P	1.0
4	☐	125.000	129.284	4552.96	0.0016	P	3.3
5	☐	250.000	260.079	9008.38	0.0032	P	2.1
6	☐	500.000	509.327	17980.99	0.0063	P	1.2
7	☐	1000.000	992.072	34576.98	0.0123	P	0.8
8	☐			307.79	0.0001	P	10.6

$$y = 1.2319\text{E-}005 * x + 4.0181\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.5304$$

$$BEC = 3.262$$

Weight: <None>

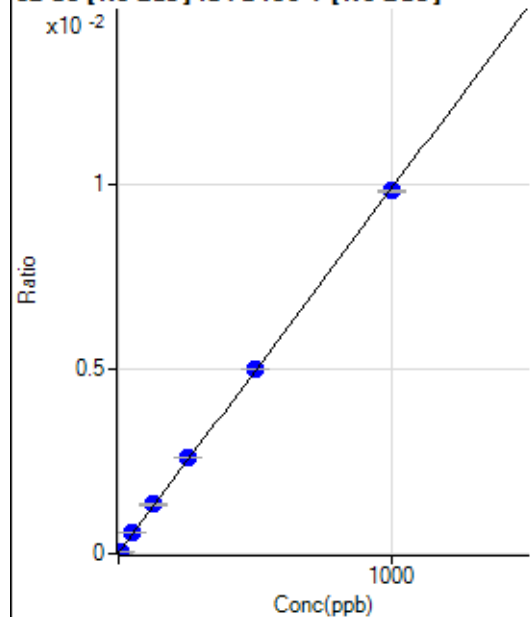
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8234.59		P	1.1
2	☐			8326.86		P	0.9
3	☐			7643.17		P	3.6
4	☐			6999.50		P	4.7
5	☐			6789.41		P	1.8
6	☐			7095.10		P	1.0
7	☐			7339.66		P	3.1
8	☐			12338.61		P	13.0

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			93.33		P	16.4
2	☐			116.67		P	9.9
3	☐			42.22		P	50.1
4	☐			48.89		P	28.4
5	☐			60.00		P	40.1
6	☐			85.56		P	9.0
7	☐			72.22		P	9.6
8	☐			568.90		P	12.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	284.86	0.0000	P	4.3
2	☐	5.000	5.041	971.04	0.0001	P	6.9
3	☐	50.000	55.153	7640.02	0.0006	P	1.8
4	☐	125.000	132.785	17464.78	0.0013	P	0.5
5	☐	250.000	261.733	33152.96	0.0026	P	0.2
6	☐	500.000	504.492	66223.46	0.0050	P	1.0
7	☐	1000.000	993.590	126955.45	0.0098	P	0.3
8	☐			936.72	0.0001	P	4.6

$$y = 9.8682\text{E-}006 * x + 2.0860\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.2721$$

$$BEC = 2.114$$

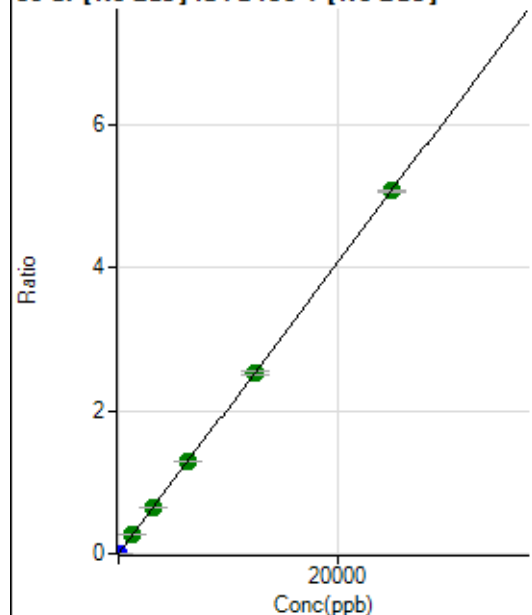
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			182.23		P	16.4
2	☐			194.45		P	13.1
3	☐			171.11		P	15.7
4	☐			181.11		P	16.5
5	☐			152.22		P	15.8
6	☐			156.67		P	17.0
7	☐			184.45		P	9.1
8	☐			218.89		P	19.4

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	294.45	0.0000	P	13.3
2	☐	1.000	0.987	3049.24	0.0002	P	2.6
3	☐	1250.000	1294.951	3548460.40	0.2625	A	0.7
4	☐	3125.000	3148.775	8372408.07	0.6382	A	0.9
5	☐	6250.000	6349.289	16385076.15	1.2868	A	0.7
6	☐	12500.000	12455.510	33439006.17	2.5244	A	1.3
7	☐	25000.000	24992.204	65445077.36	5.0652	A	0.4
8	☐			16753.22	0.0014	P	19.0

$$y = 2.0267\text{E-}004 * x + 2.1606\text{E-}005$$

$$R = 1.0000$$

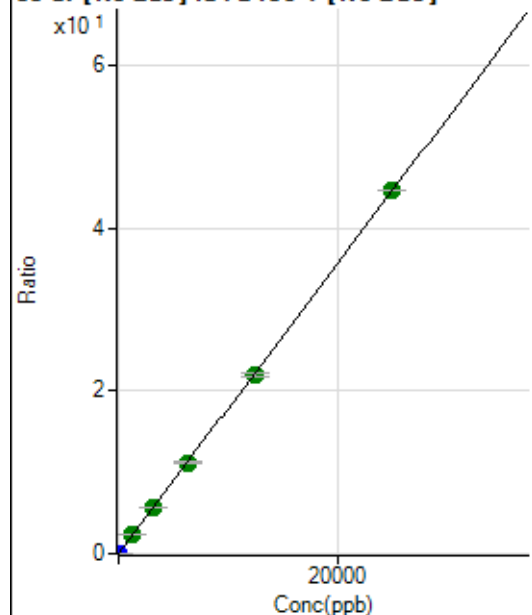
$$DL = 0.0426$$

$$BEC = 0.1066$$

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	208.89	0.0000	P	26.3
2	☐	1.000	0.957	23663.54	0.0017	P	3.6
3	☐	1250.000	1277.980	30767121.49	2.2758	A	0.4
4	☐	3125.000	3159.947	73826483.34	5.6271	A	0.3
5	☐	6250.000	6291.540	142660586.7	11.2036	A	0.7
6	☐	12500.000	12331.655	290879755.6	21.9595	A	1.8
7	☐	25000.000	25068.020	576775178.0	44.6397	A	0.1
8	☐			144647.91	0.0123	P	18.2

$$y = 0.0018 * x + 1.5268\text{E-}005$$

$$R = 1.0000$$

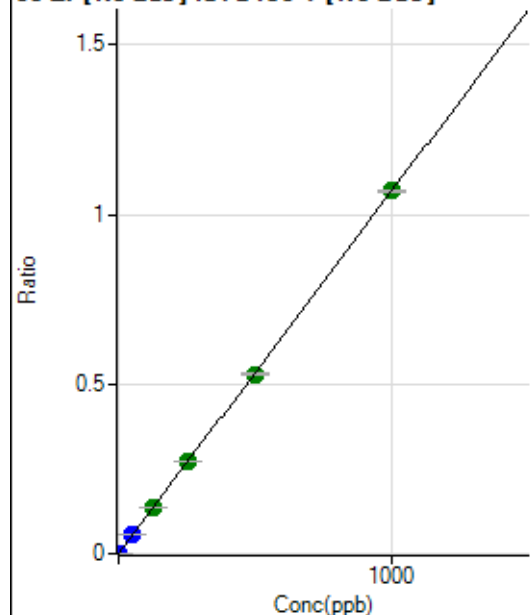
$$DL = 0.006764$$

$$BEC = 0.008574$$

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	493.35	0.0000	P	14.8
2	☐	1.000	0.958	14580.68	0.0011	P	0.1
3	☐	50.000	52.184	753773.66	0.0558	P	0.3
4	☐	125.000	128.403	1799204.90	0.1371	A	0.7
5	☐	250.000	253.756	3450315.12	0.2710	A	1.2
6	☐	500.000	494.833	6999338.30	0.5284	A	1.2
7	☐	1000.000	1001.110	13811776.04	1.0690	A	0.4
8	☐			8048.97	0.0007	P	7.3

$$y = 0.0011 * x + 3.6211E-005$$

$$R = 1.0000$$

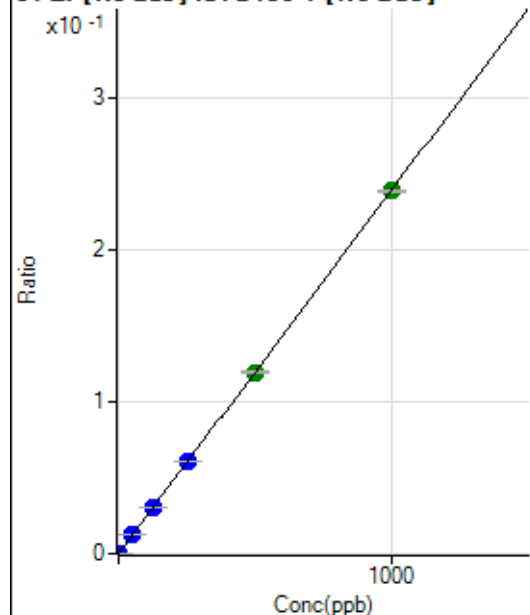
$$DL = 0.01509$$

$$BEC = 0.03391$$

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	91.11	0.0000	P	16.7
2	☐	1.000	0.982	3321.52	0.0002	P	1.9
3	☐	50.000	52.028	168235.21	0.0124	P	1.4
4	☐	125.000	128.416	402830.48	0.0307	P	0.6
5	☐	250.000	255.517	777845.02	0.0611	P	0.6
6	☐	500.000	499.913	1583108.90	0.1195	A	1.2
7	☐	1000.000	998.136	3083017.73	0.2386	A	0.4
8	☐			1837.91	0.0002	P	3.4

$$y = 2.3905E-004 * x + 6.6852E-006$$

$$R = 1.0000$$

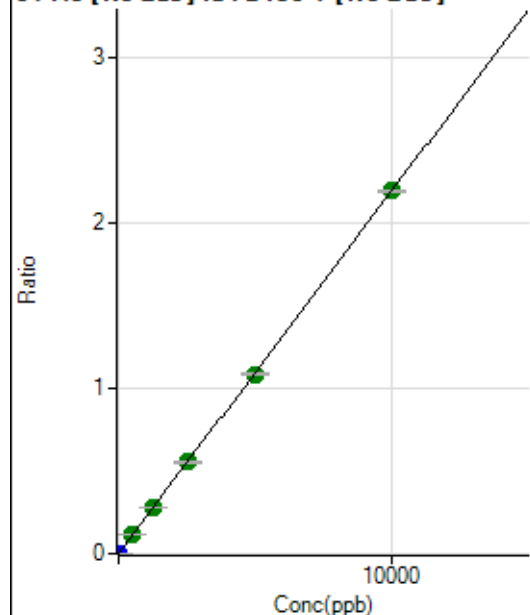
$$DL = 0.01398$$

$$BEC = 0.02797$$

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	187.78	0.0000	P	9.7
2	☐	5.000	5.566	17006.65	0.0012	P	2.7
3	☐	500.000	518.993	1540988.90	0.1140	A	1.4
4	☐	1250.000	1272.356	3665673.87	0.2794	A	1.3
5	☐	2500.000	2531.848	7079528.30	0.5560	A	1.1
6	☐	5000.000	4959.809	14427700.34	1.0892	A	1.6
7	☐	10000.000	10008.389	28397234.86	2.1978	A	0.7
8	☐			11139.89	0.0009	P	6.7

$$y = 2.1960\text{E-}004 * x + 1.3741\text{E-}005$$

$$R = 1.0000$$

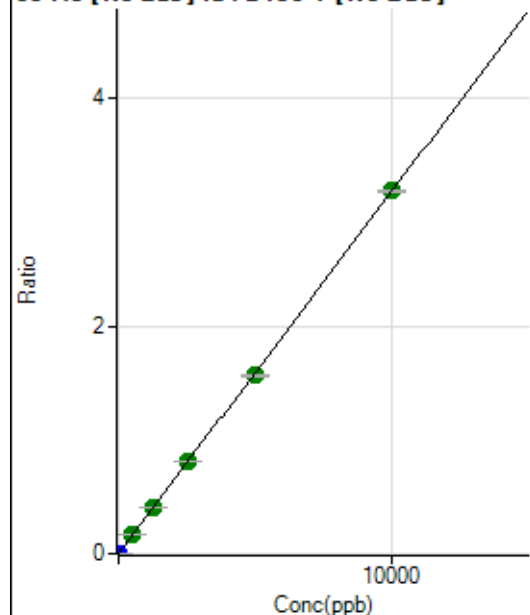
$$DL = 0.01816$$

$$BEC = 0.06257$$

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	65.55	0.0000	P	34.9
2	☐	5.000	4.755	20888.31	0.0015	P	0.7
3	☐	500.000	523.413	2251953.20	0.1666	A	0.1
4	☐	1250.000	1263.901	5276929.75	0.4022	A	0.4
5	☐	2500.000	2544.723	10311385.89	0.8098	A	0.5
6	☐	5000.000	4928.455	20776045.80	1.5684	A	1.0
7	☐	10000.000	10021.684	41206158.83	3.1892	A	0.8
8	☐			18188.07	0.0015	P	3.9

$$y = 3.1823\text{E-}004 * x + 4.7846\text{E-}006$$

$$R = 0.9999$$

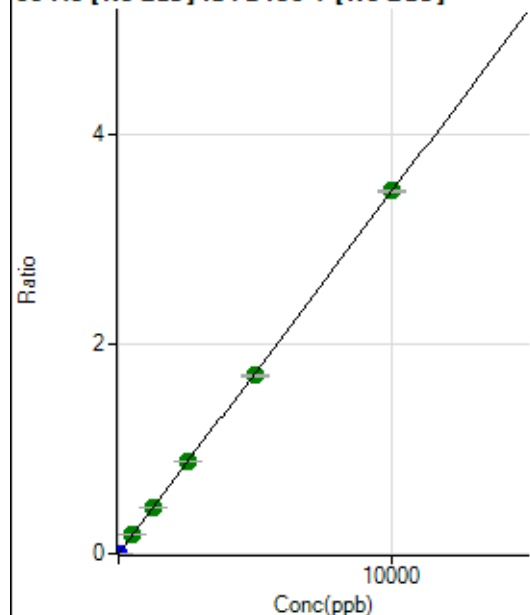
$$DL = 0.01575$$

$$BEC = 0.01503$$

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	81.11	0.0000	P	15.8
2	☐	5.000	4.864	23205.13	0.0017	P	2.7
3	☐	500.000	525.598	2455311.75	0.1816	A	0.1
4	☐	1250.000	1268.219	5749030.54	0.4382	A	0.6
5	☐	2500.000	2544.840	11196047.47	0.8793	A	1.1
6	☐	5000.000	4920.796	22522635.50	1.7003	A	1.1
7	☐	10000.000	10024.835	44754995.44	3.4638	A	0.8
8	☐			17585.19	0.0015	P	10.5

$$y = 3.4553\text{E-}004 * x + 5.9370\text{E-}006$$

$$R = 0.9999$$

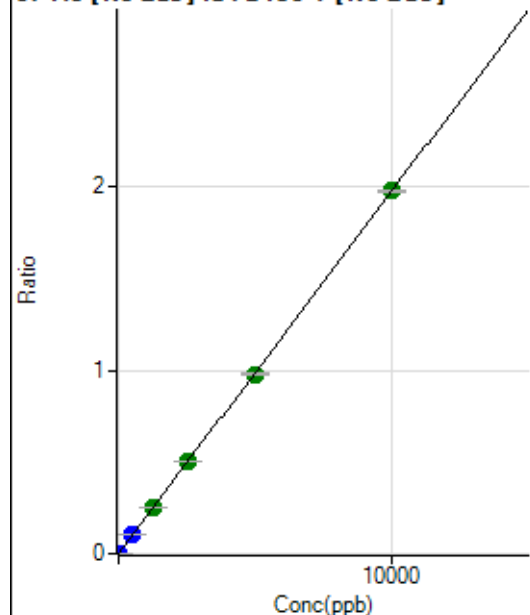
$$DL = 0.008166$$

$$BEC = 0.01718$$

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	35.56	0.0000	P	4.1
2	☐	5.000	4.741	12925.80	0.0009	P	2.6
3	☐	500.000	527.101	1408241.77	0.1042	P	0.4
4	☐	1250.000	1280.853	3320585.20	0.2531	A	1.2
5	☐	2500.000	2529.422	6364617.27	0.4998	A	0.5
6	☐	5000.000	4943.713	12941085.92	0.9769	A	1.1
7	☐	10000.000	10015.577	25572488.79	1.9792	A	0.6
8	☐			8623.75	0.0007	P	10.4

$$y = 1.9761\text{E-}004 * x + 2.6042\text{E-}006$$

$$R = 1.0000$$

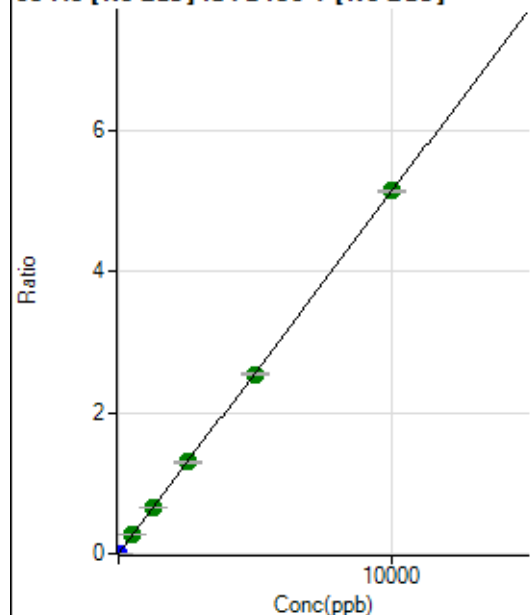
$$DL = 0.001616$$

$$BEC = 0.01318$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	106.67	0.0000	P	2.9
2	☐	5.000	4.784	33890.38	0.0025	P	0.4
3	☐	500.000	519.054	3600979.67	0.2664	A	0.3
4	☐	1250.000	1254.964	8448533.07	0.6440	A	0.8
5	☐	2500.000	2524.669	16496120.17	1.2955	A	1.1
6	☐	5000.000	4946.146	33620795.89	2.5381	A	1.0
7	☐	10000.000	10019.187	66428089.01	5.1413	A	0.3
8	☐			19007.16	0.0016	P	17.0

$$y = 5.1314\text{E-}004 * x + 7.8153\text{E-}006$$

$$R = 1.0000$$

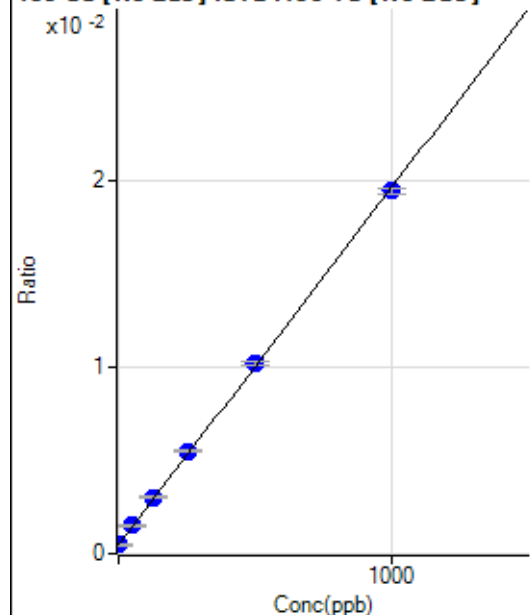
$$DL = 0.001321$$

$$BEC = 0.01523$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5222.11	0.0005	P	3.5
2	☐	1.000	-0.047	5319.92	0.0005	P	2.1
3	☐	50.000	54.136	17116.86	0.0015	P	1.6
4	☐	125.000	133.608	33798.21	0.0030	P	1.8
5	☐	250.000	263.045	60647.04	0.0055	P	0.7
6	☐	500.000	508.771	116294.16	0.0102	P	2.1
7	☐	1000.000	991.071	220231.09	0.0195	P	1.4
8	☐			4661.91	0.0005	P	5.3

$$y = 1.9186\text{E-}005 * x + 4.7024\text{E-}004$$

$$R = 0.9998$$

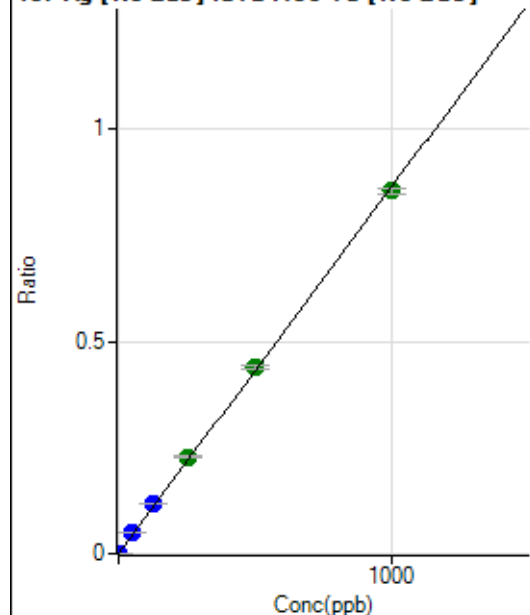
$$DL = 2.575$$

$$BEC = 24.51$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	108.89	0.0000	P	35.1
2	☐	1.000	1.070	10600.62	0.0009	P	1.2
3	☐	50.000	56.880	557883.86	0.0492	P	0.2
4	☐	125.000	136.778	1317294.35	0.1182	P	0.4
5	☐	250.000	264.680	2515024.73	0.2288	A	1.2
6	☐	500.000	509.721	5008185.21	0.4406	A	1.8
7	☐	1000.000	989.653	9668604.58	0.8554	A	1.6
8	☐			3187.06	0.0003	P	14.8

$$y = 8.6438\text{E-}004 * x + 9.7968\text{E-}006$$

$$R = 0.9998$$

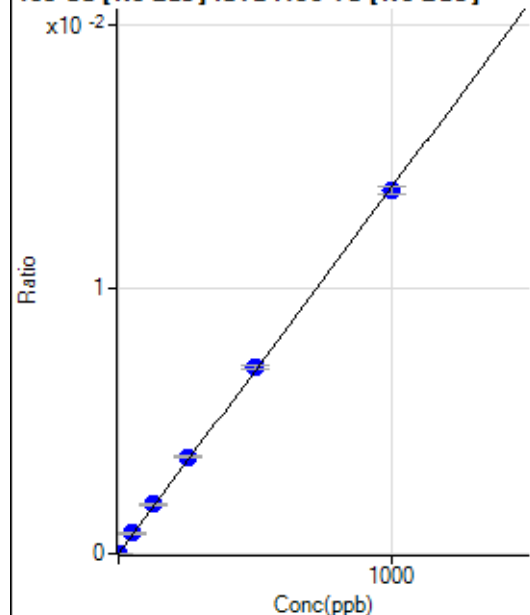
$$DL = 0.01195$$

$$BEC = 0.01133$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12.22	0.0000	P	41.4
2	☐	1.000	1.183	197.78	0.0000	P	21.0
3	☐	50.000	55.665	8740.50	0.0008	P	3.7
4	☐	125.000	134.476	20719.29	0.0019	P	1.2
5	☐	250.000	264.044	40130.87	0.0037	P	1.3
6	☐	500.000	508.124	79835.83	0.0070	P	2.1
7	☐	1000.000	990.959	154811.49	0.0137	P	2.2
8	☐			116.67	0.0000	P	16.2

$$y = 1.3821\text{E-}005 * x + 1.0996\text{E-}006$$

$$R = 0.9998$$

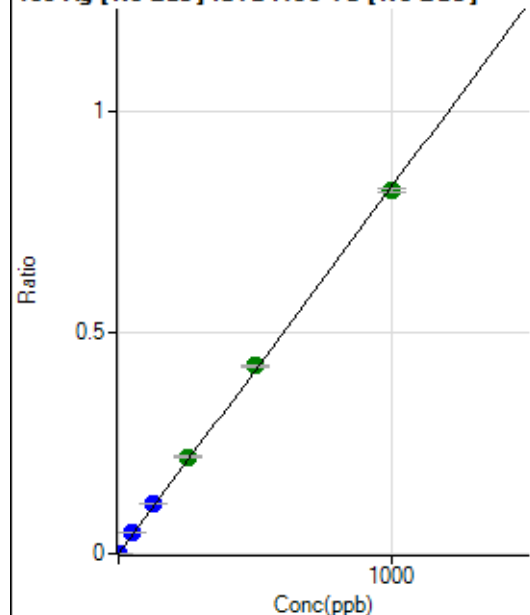
$$DL = 0.09877$$

$$BEC = 0.07956$$

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	77.78	0.0000	P	10.2
2	☐	1.000	1.074	10189.21	0.0009	P	1.3
3	☐	50.000	56.561	533150.53	0.0470	P	0.1
4	☐	125.000	135.210	1251485.48	0.1123	P	0.7
5	☐	250.000	263.451	2405786.84	0.2189	A	1.6
6	☐	500.000	511.451	4829649.37	0.4249	A	1.6
7	☐	1000.000	989.307	9289575.49	0.8219	A	1.0
8	☐			3213.73	0.0003	P	15.1

$$y = 8.3075\text{E-}004 * x + 7.0048\text{E-}006$$

$$R = 0.9998$$

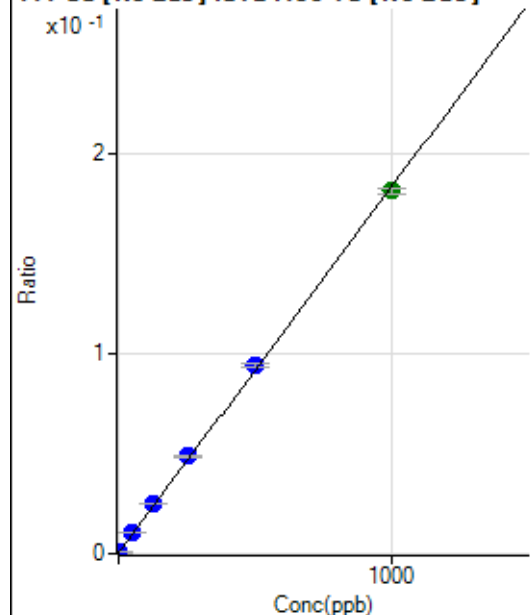
$$DL = 0.002585$$

$$BEC = 0.008432$$

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	3661.36	0.0003	P	3.7
2	☐	1.000	1.008	5830.14	0.0005	P	1.5
3	☐	50.000	55.495	119086.87	0.0105	P	0.5
4	☐	125.000	134.691	278606.86	0.0250	P	0.2
5	☐	250.000	264.078	535444.17	0.0487	P	1.7
6	☐	500.000	511.749	1069427.74	0.0941	P	2.0
7	☐	1000.000	989.120	2051912.97	0.1815	A	1.8
8	☐			4428.41	0.0004	P	3.9

$$y = 1.8321\text{E-}004 * x + 3.2970\text{E-}004$$

$$R = 0.9998$$

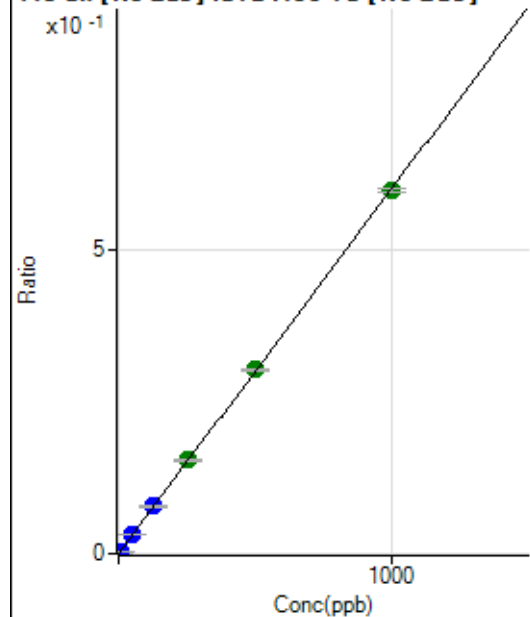
$$DL = 0.1995$$

$$BEC = 1.8$$

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	1000.06	0.0001	P	6.7
2	☐	5.000	5.077	35606.17	0.0031	P	0.7
3	☐	50.000	52.759	360724.36	0.0318	P	0.5
4	☐	125.000	129.340	866993.18	0.0778	P	0.7
5	☐	250.000	257.648	1702949.87	0.1549	A	2.1
6	☐	500.000	504.863	3450068.70	0.3035	A	0.8
7	☐	1000.000	994.976	6759614.62	0.5980	A	1.2
8	☐			4982.03	0.0005	P	6.6

$$y = 6.0098\text{E-}004 * x + 9.0039\text{E-}005$$

$$R = 0.9999$$

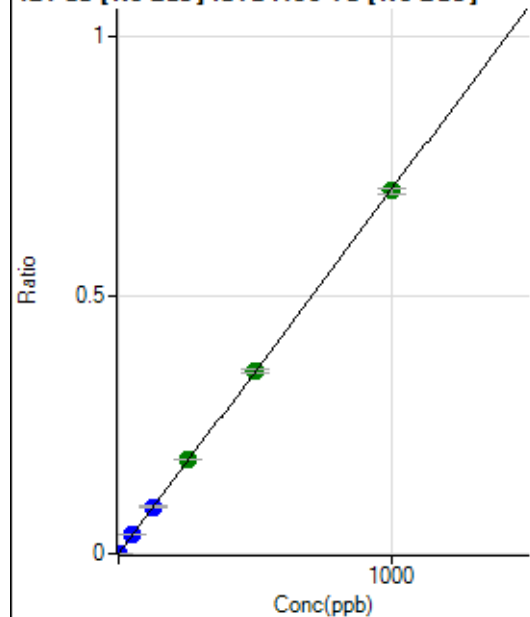
$$DL = 0.02993$$

$$BEC = 0.1498$$

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	83.34	0.0000	P	20.9
2	☐	2.000	2.033	16334.93	0.0014	P	1.8
3	☐	50.000	52.674	421545.59	0.0372	P	0.4
4	☐	125.000	129.068	1014255.76	0.0910	P	0.7
5	☐	250.000	258.005	2000346.74	0.1820	A	1.4
6	☐	500.000	502.434	4027782.27	0.3544	A	2.4
7	☐	1000.000	996.139	7940937.17	0.7026	A	1.7
8	☐			7108.48	0.0007	P	3.5

$$y = 7.0530\text{E-}004 * x + 7.5013\text{E-}006$$

$$R = 1.0000$$

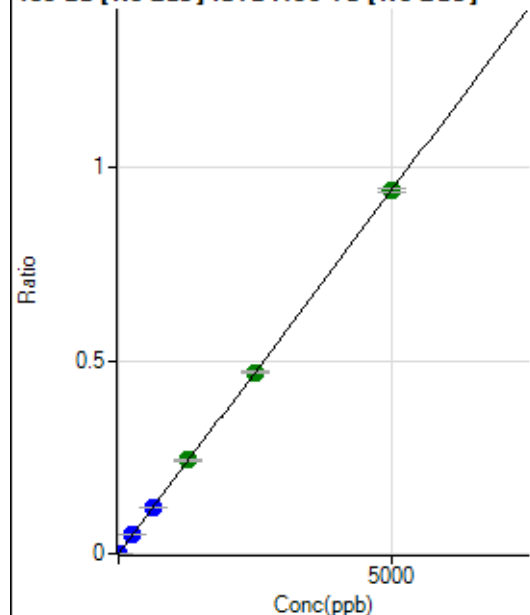
$$DL = 0.00666$$

$$BEC = 0.01064$$

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	23.33	0.0000	P	24.7
2	☐	10.000	9.864	21079.00	0.0019	P	0.9
3	☐	250.000	257.190	549399.11	0.0484	P	0.3
4	☐	625.000	627.921	1317210.68	0.1182	P	0.7
5	☐	1250.000	1284.048	2657658.83	0.2418	A	1.2
6	☐	2500.000	2497.166	5344613.39	0.4702	A	1.6
7	☐	5000.000	4992.180	10624260.19	0.9400	A	1.2
8	☐			6600.48	0.0007	P	6.2

$$y = 1.8829\text{E-}004 * x + 2.1011\text{E-}006$$

$$R = 1.0000$$

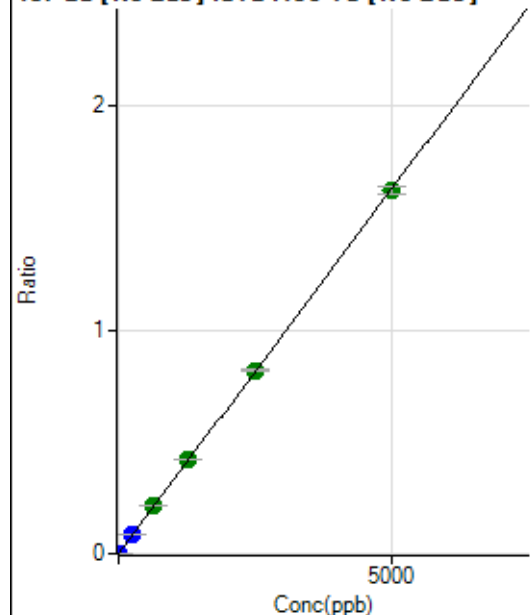
$$DL = 0.008284$$

$$BEC = 0.01116$$

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	46.67	0.0000	P	35.4
2	☐	10.000	9.871	36522.34	0.0032	P	0.7
3	☐	250.000	257.532	952445.90	0.0840	P	0.4
4	☐	625.000	652.621	2370136.70	0.2127	A	1.3
5	☐	1250.000	1286.891	4611629.97	0.4195	A	0.4
6	☐	2500.000	2517.159	9327115.62	0.8206	A	1.4
7	☐	5000.000	4978.369	18341755.70	1.6229	A	2.0
8	☐			11465.84	0.0012	P	6.6

$$y = 3.2598\text{E-}004 * x + 4.1987\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01368$$

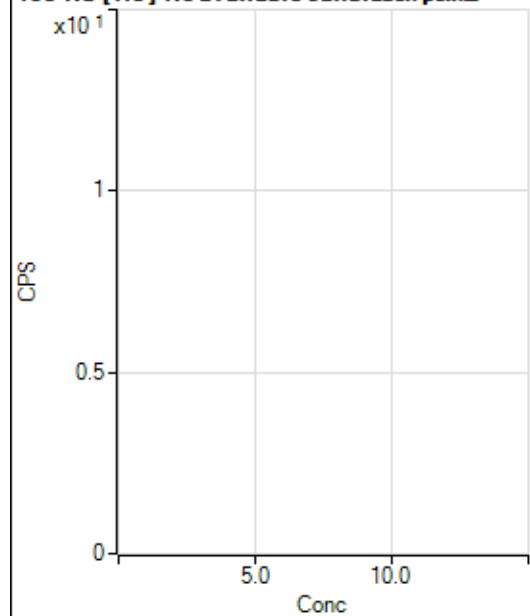
$$BEC = 0.01288$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15.56		P	53.9
2	☐			10.00		P	33.3
3	☐			63.33		P	24.1
4	☐			117.78		P	15.6
5	☐			243.34		P	5.5
6	☐			461.12		P	1.8
7	☐			910.04		P	4.8
8	☐			308.90		P	16.2

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	49.5
2	☐			8.89		P	43.3
3	☐			13.33		P	25.0
4	☐			27.78		P	6.9
5	☐			53.34		P	10.8
6	☐			95.56		P	2.0
7	☐			214.45		P	23.4
8	☐			182.22		P	25.2

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	66.7
2	☐			10.00		P	66.7
3	☐			37.78		P	71.3
4	☐			87.78		P	14.4
5	☐			158.89		P	3.2
6	☐			302.23		P	4.5
7	☐			635.58		P	7.1
8	☐			1653.45		P	6.3

156 Dy [He] No available calibration points

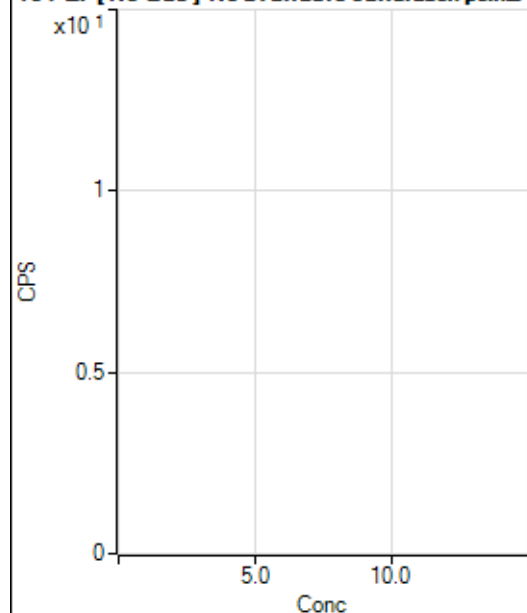
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			2.22		P	86.6
3	☐			41.11		P	24.8
4	☐			93.33		P	7.1
5	☐			170.01		P	12.2
6	☐			376.68		P	6.2
7	☐			713.36		P	6.1
8	☐			1172.29		P	0.9

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

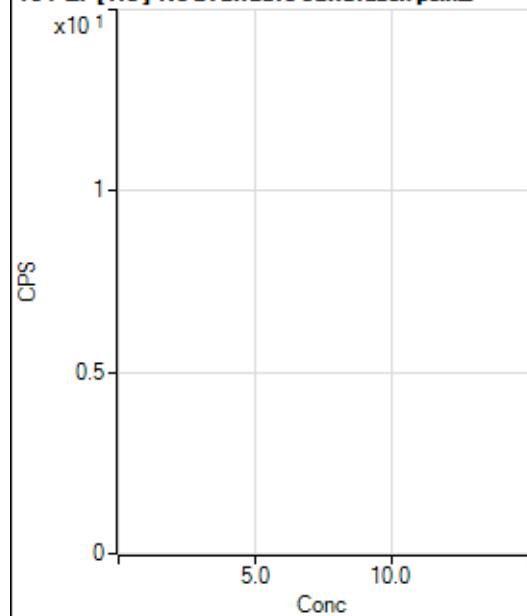
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			54.45		P	30.8
2	☐			40.00		P	14.4
3	☐			85.56		P	16.2
4	☐			105.56		P	25.7
5	☐			175.56		P	10.8
6	☐			323.34		P	2.1
7	☐			524.46		P	5.3
8	☐			1847.92		P	9.2

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			414.46		P	7.3
2	☐			396.68		P	15.6
3	☐			366.68		P	7.9
4	☐			374.46		P	8.2
5	☐			456.68		P	2.9
6	☐			562.24		P	12.1
7	☐			635.58		P	8.4
8	☐			1605.67		P	5.8

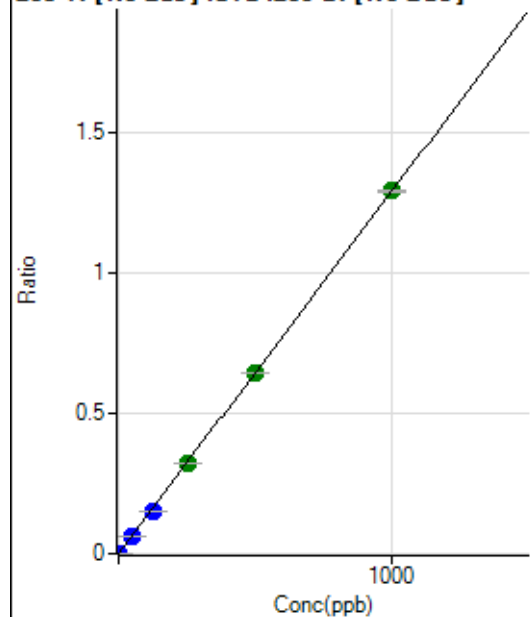
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			96.66		P	15.8
2	☐			102.22		P	10.5
3	☐			100.00		P	26.7
4	☐			127.78		P	13.1
5	☐			126.67		P	2.6
6	☐			190.00		P	3.5
7	☐			265.56		P	5.2
8	☐			294.45		P	6.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			55.56		P	21.1
2	☐			43.33		P	40.0
3	☐			54.44		P	33.7
4	☐			68.89		P	14.8
5	☐			76.66		P	7.5
6	☐			97.78		P	7.1
7	☐			152.23		P	11.2
8	☐			194.45		P	7.1

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	215.56	0.0000	P	28.6
2	☐	1.000	0.886	7781.18	0.0012	P	1.7
3	☐	50.000	47.878	406393.58	0.0619	P	0.2
4	☐	125.000	118.057	1010212.15	0.1525	P	0.5
5	☐	250.000	249.137	2108840.68	0.3218	A	0.9
6	☐	500.000	498.083	4305543.96	0.6433	A	0.4
7	☐	1000.000	1002.148	8344747.66	1.2942	A	0.8
8	☐			2631.39	0.0005	P	13.1

$$y = 0.0013 * x + 3.2742E-005$$

$$R = 1.0000$$

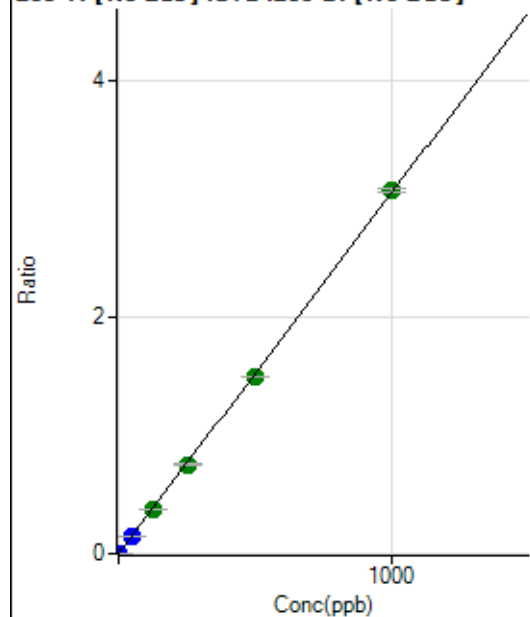
$$DL = 0.02172$$

$$BEC = 0.02535$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	420.01	0.0001	P	4.7
2	☐	1.000	0.893	18434.78	0.0028	P	2.9
3	☐	50.000	48.062	963405.82	0.1467	P	0.2
4	☐	125.000	124.253	2510915.07	0.3790	A	1.1
5	☐	250.000	247.655	4950758.40	0.7554	A	0.5
6	☐	500.000	490.257	10008715.41	1.4953	A	0.5
7	☐	1000.000	1005.648	19776525.40	3.0672	A	0.9
8	☐			6297.11	0.0012	P	14.7

$$y = 0.0030 * x + 6.3849E-005$$

$$R = 0.9999$$

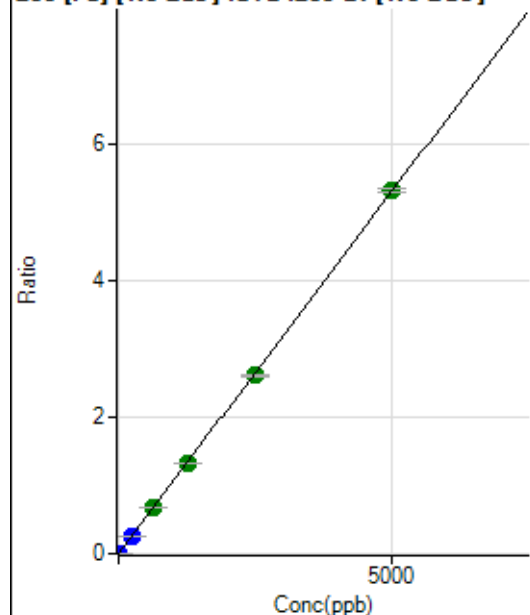
$$DL = 0.002982$$

$$BEC = 0.02093$$

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	606.69	0.0001	P	15.6
2	☐	1.000	0.884	6807.32	0.0010	P	2.9
3	☐	250.000	241.963	1686043.40	0.2566	P	0.3
4	☐	625.000	628.556	4415830.04	0.6666	A	1.0
5	☐	1250.000	1256.747	8733878.76	1.3326	A	0.5
6	☐	2500.000	2466.024	17502133.91	2.6148	A	0.8
7	☐	5000.000	5015.259	34287560.32	5.3178	A	1.0
8	☐			17700.56	0.0033	P	7.4

$$y = 0.0011 * x + 9.2323E-005$$

$$R = 1.0000$$

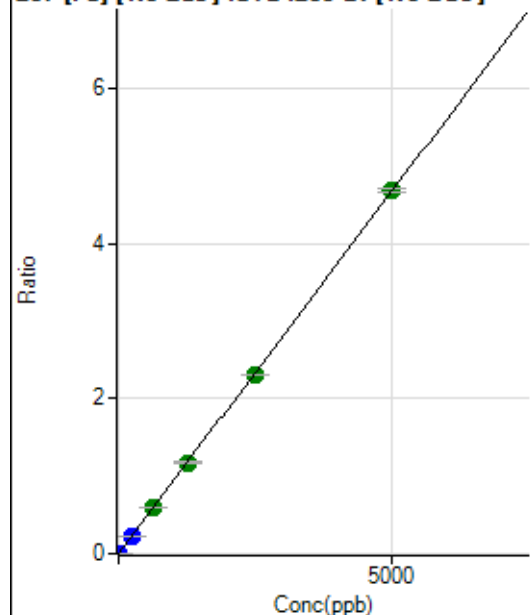
$$DL = 0.0408$$

$$BEC = 0.08707$$

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	548.91	0.0001	P	9.2
2	☐	1.000	0.878	5975.81	0.0009	P	3.4
3	☐	250.000	240.250	1476116.45	0.2247	P	0.2
4	☐	625.000	628.790	3894980.95	0.5879	A	0.3
5	☐	1250.000	1259.949	7720848.43	1.1780	A	1.0
6	☐	2500.000	2471.256	15464776.86	2.3105	A	0.3
7	☐	5000.000	5011.899	30211827.05	4.6857	A	1.2
8	☐			15462.27	0.0029	P	6.8

$$y = 9.3490E-004 * x + 8.3544E-005$$

$$R = 1.0000$$

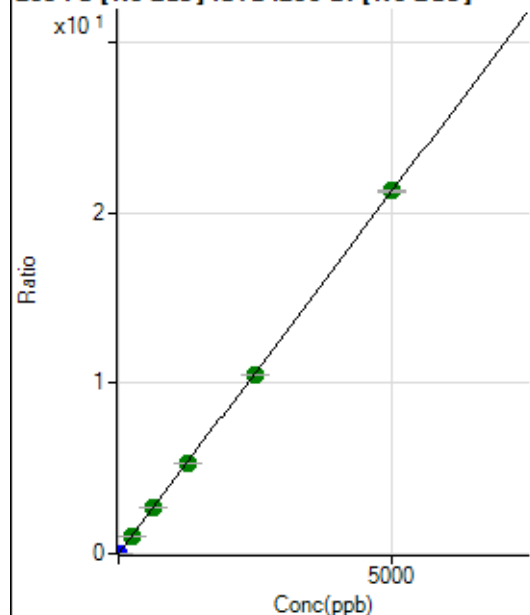
$$DL = 0.02459$$

$$BEC = 0.08936$$

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	2554.57	0.0004	P	5.7
2	☐	1.000	0.869	26947.27	0.0041	P	3.1
3	☐	250.000	249.074	6945881.84	1.0573	A	0.2
4	☐	625.000	627.273	17636266.20	2.6622	A	0.6
5	☐	1250.000	1255.731	34926340.53	5.3290	A	0.5
6	☐	2500.000	2467.862	70096822.99	10.4726	A	0.2
7	☐	5000.000	5014.399	137198836.8	21.2786	A	0.7
8	☐			70759.66	0.0134	P	7.9

$$y = 0.0042 * x + 3.8871E-004$$

$$R = 1.0000$$

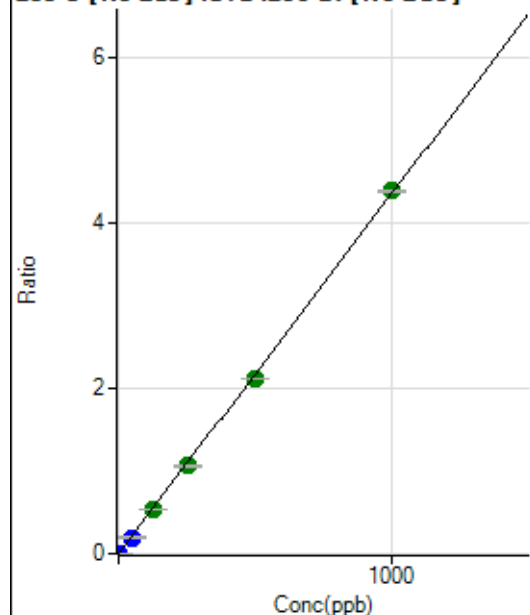
$$DL = 0.01578$$

$$BEC = 0.0916$$

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	60.00	0.0000	P	10.6
2	☐	1.000	0.830	23920.42	0.0036	P	3.6
3	☐	50.000	45.418	1297522.89	0.1975	P	0.4
4	☐	125.000	121.590	3502677.86	0.5287	A	1.7
5	☐	250.000	244.333	6963531.84	1.0625	A	1.1
6	☐	500.000	487.016	14175025.90	2.1177	A	0.8
7	☐	1000.000	1008.564	28277745.41	4.3856	A	0.8
8	☐			10192.91	0.0019	P	9.9

$$y = 0.0043 * x + 9.1317E-006$$

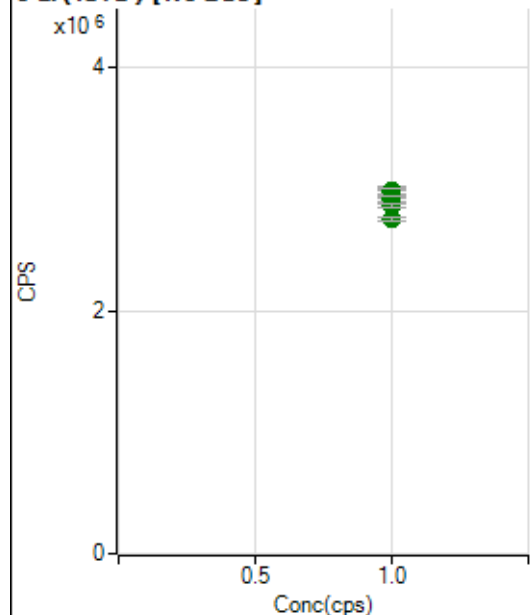
$$R = 0.9999$$

$$DL = 0.0006696$$

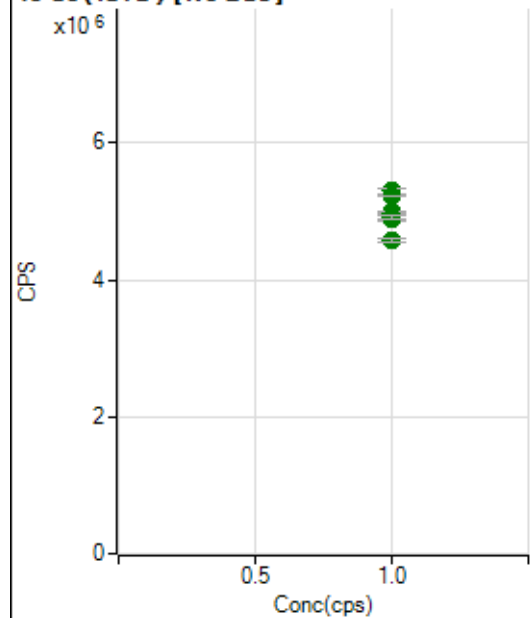
$$BEC = 0.0021$$

Weight: <None>

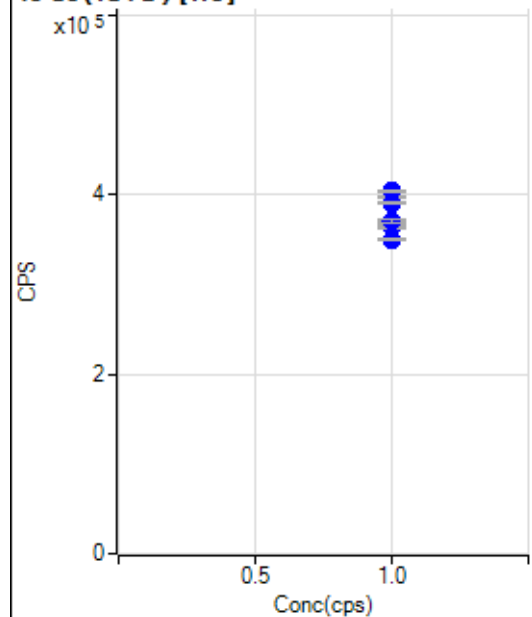
Min Conc: 0

6 Li (ISTD) [No Gas]

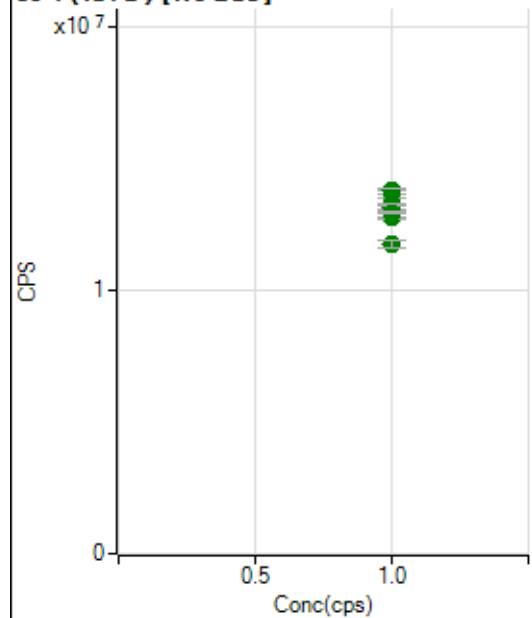
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2958446.10		A	1.8
2	☐	1.000		2917086.48		A	1.5
3	☐	1.000		2981509.75		A	2.8
4	☐	1.000		2987034.57		A	1.2
5	☐	1.000		2932364.61		A	0.7
6	☐	1.000		2922136.28		A	1.2
7	☐	1.000		2864648.53		A	0.9
8	☐	1.000		2757887.15		A	1.2

45 Sc (ISTD) [No Gas]

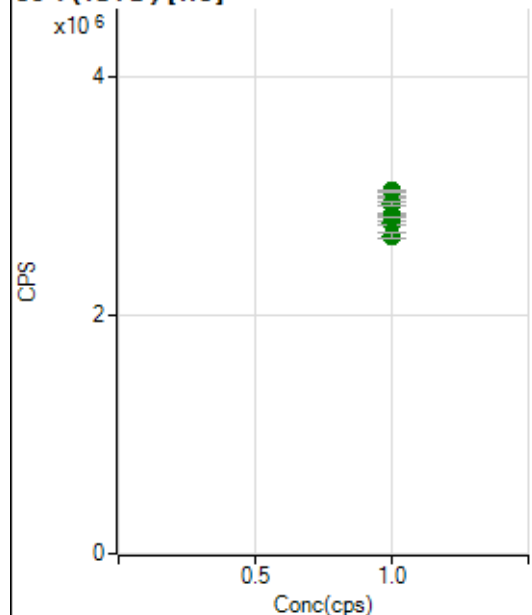
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5253937.21		A	0.3
2	☐	1.000		5300141.34		A	1.3
3	☐	1.000		5219859.79		A	0.3
4	☐	1.000		4987106.07		A	1.0
5	☐	1.000		4875311.66		A	1.0
6	☐	1.000		4962361.98		A	1.0
7	☐	1.000		4910743.71		A	1.0
8	☐	1.000		4584656.67		A	1.3

45 Sc (ISTD) [He]

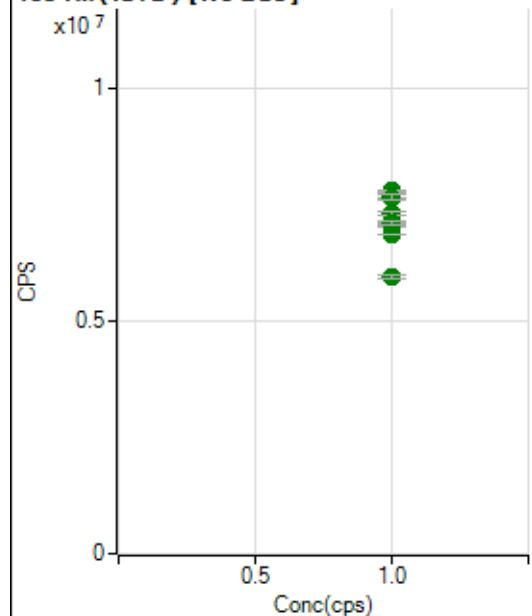
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		397506.63		P	0.5
2	☐	1.000		404433.49		P	0.8
3	☐	1.000		390650.50		P	0.5
4	☐	1.000		368867.55		P	0.9
5	☐	1.000		363776.08		P	0.4
6	☐	1.000		371816.38		P	0.0
7	☐	1.000		370719.01		P	0.7
8	☐	1.000		350173.30		P	0.5

89 Y (ISTD) [No Gas]

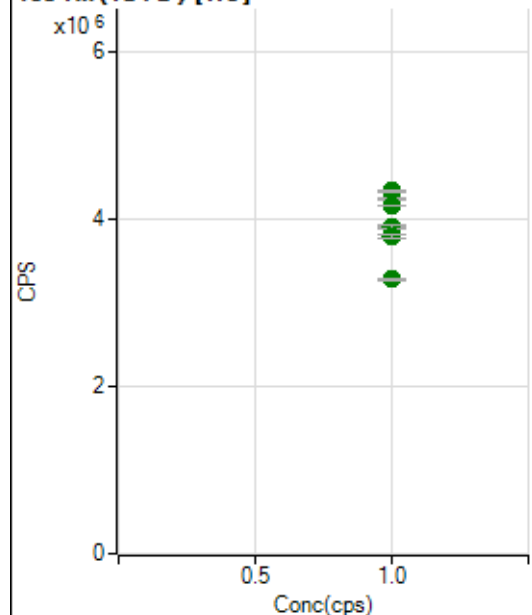
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13649316.74		A	1.9
2	☐	1.000		13761007.16		A	1.3
3	☐	1.000		13519416.88		A	0.1
4	☐	1.000		13120055.92		A	1.3
5	☐	1.000		12733128.01		A	0.5
6	☐	1.000		13246891.05		A	0.4
7	☐	1.000		12920649.67		A	0.5
8	☐	1.000		11746107.05		A	1.9

89 Y(ISTD) [He]

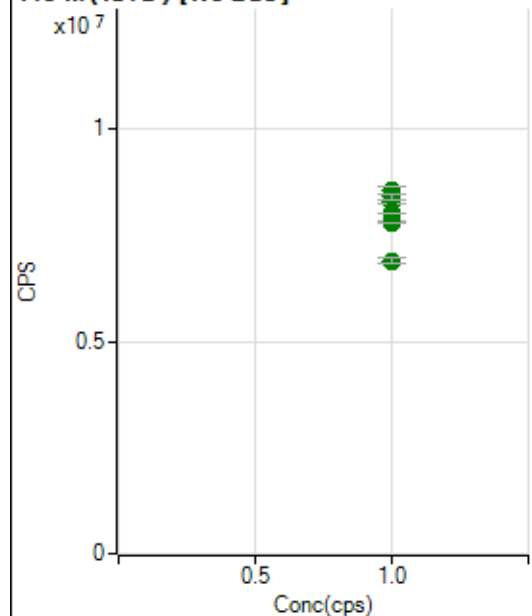
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2987183.91		A	0.6
2	☐	1.000		3044001.79		A	0.5
3	☐	1.000		2936337.90		A	1.2
4	☐	1.000		2788310.34		A	0.2
5	☐	1.000		2776730.45		A	0.9
6	☐	1.000		2847589.89		A	0.6
7	☐	1.000		2819909.09		A	0.1
8	☐	1.000		2665463.92		A	1.9

103 Rh(ISTD) [No Gas]

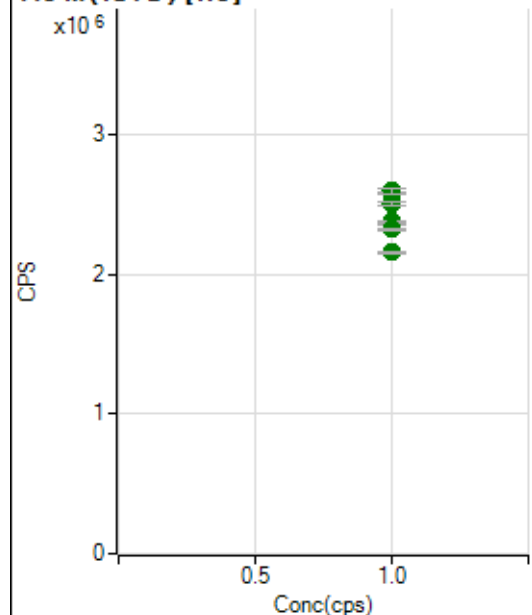
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7695891.90		A	0.6
2	☐	1.000		7803436.90		A	0.6
3	☐	1.000		7671750.02		A	1.5
4	☐	1.000		7313884.61		A	1.0
5	☐	1.000		7067318.99		A	1.3
6	☐	1.000		7119456.84		A	1.2
7	☐	1.000		6869019.48		A	0.2
8	☐	1.000		5953848.94		A	1.7

103 Rh (ISTD) [He]

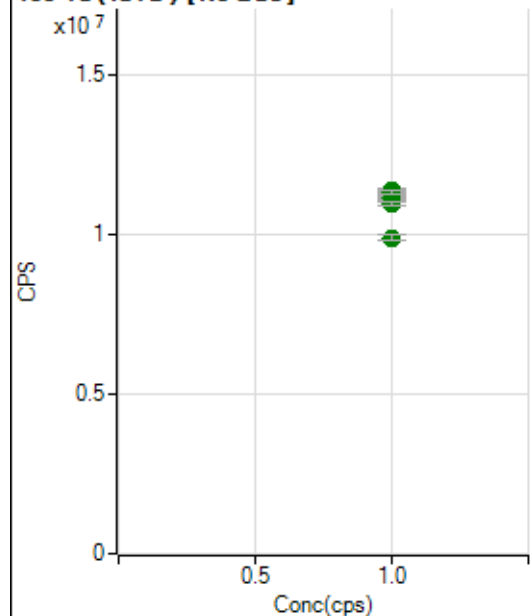
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4239421.71		A	0.5
2	☐	1.000		4332275.66		A	0.9
3	☐	1.000		4156147.30		A	0.5
4	☐	1.000		3901458.21		A	0.1
5	☐	1.000		3884468.80		A	0.6
6	☐	1.000		3894147.79		A	1.1
7	☐	1.000		3794626.71		A	1.1
8	☐	1.000		3275224.53		A	0.3

115 In (ISTD) [No Gas]

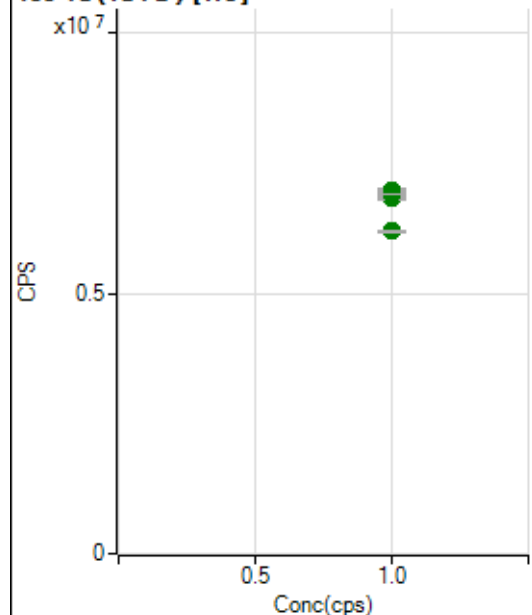
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8292198.74		A	1.3
2	☐	1.000		8555877.53		A	2.1
3	☐	1.000		8420129.71		A	1.4
4	☐	1.000		8033479.81		A	0.4
5	☐	1.000		7822342.33		A	0.5
6	☐	1.000		8015276.90		A	0.1
7	☐	1.000		7808695.35		A	0.1
8	☐	1.000		6912994.74		A	1.8

115 In (ISTD) [He]

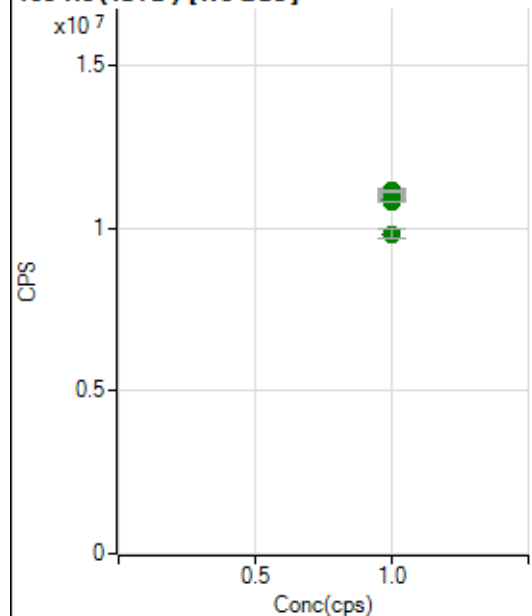
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2578347.80		A	0.6
2	☐	1.000		2595735.96		A	1.5
3	☐	1.000		2506015.82		A	0.8
4	☐	1.000		2375049.90		A	0.5
5	☐	1.000		2370242.67		A	1.1
6	☐	1.000		2373006.17		A	0.6
7	☐	1.000		2319352.94		A	1.1
8	☐	1.000		2155734.85		A	0.2

159 Tb (ISTD) [No Gas]

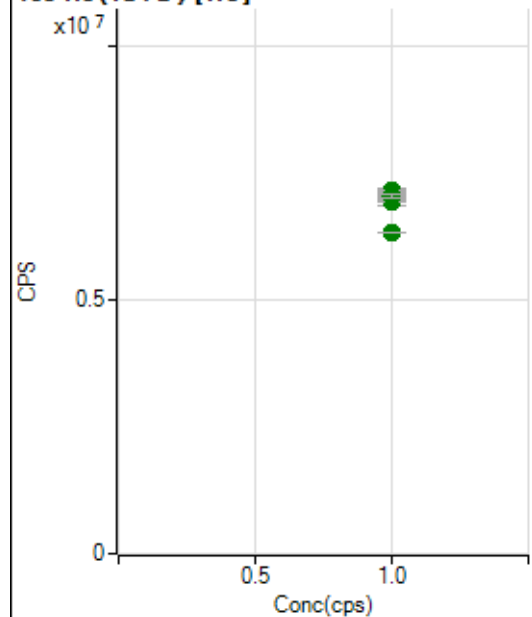
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11105568.86		A	0.3
2	☐	1.000		11335868.72		A	0.7
3	☐	1.000		11344762.75		A	0.8
4	☐	1.000		11141332.75		A	1.0
5	☐	1.000		10993207.33		A	1.1
6	☐	1.000		11368296.78		A	1.3
7	☐	1.000		11303666.36		A	1.1
8	☐	1.000		9890152.42		A	1.9

159 Tb (ISTD) [He]

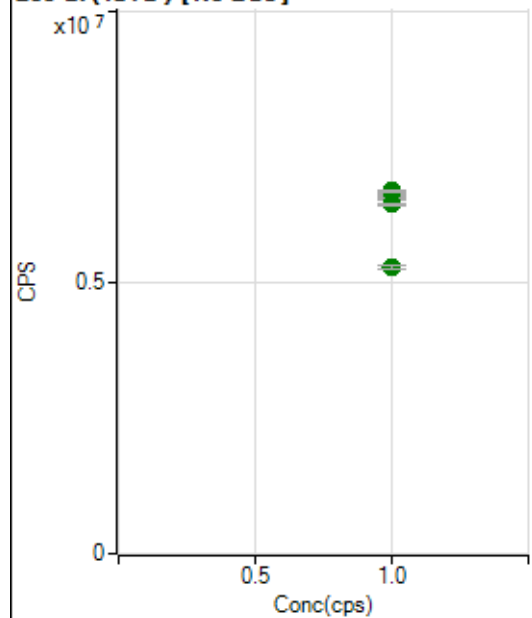
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6963156.15		A	0.6
2	☐	1.000		6964451.77		A	1.1
3	☐	1.000		6879235.52		A	0.9
4	☐	1.000		6813478.44		A	0.5
5	☐	1.000		6889669.20		A	0.6
6	☐	1.000		6959394.48		A	0.8
7	☐	1.000		6913972.88		A	0.1
8	☐	1.000		6186846.23		A	0.9

165 Ho (ISTD) [No Gas]

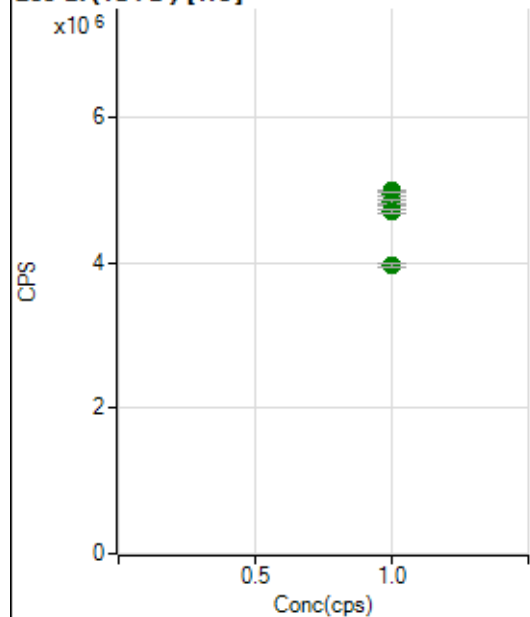
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10801324.42		A	0.5
2	☐	1.000		11114796.64		A	2.0
3	☐	1.000		11069642.61		A	0.6
4	☐	1.000		10895641.78		A	0.6
5	☐	1.000		10878427.89		A	1.3
6	☐	1.000		11133052.47		A	1.1
7	☐	1.000		11096203.72		A	0.5
8	☐	1.000		9815157.28		A	2.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7108192.26		A	0.8
2	☐	1.000		7145816.28		A	1.8
3	☐	1.000		7100833.92		A	0.4
4	☐	1.000		6946309.27		A	2.4
5	☐	1.000		6943945.52		A	0.8
6	☐	1.000		7143566.91		A	0.9
7	☐	1.000		7055991.49		A	1.1
8	☐	1.000		6319409.90		A	0.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6575703.86		A	1.5
2	☐	1.000		6612686.85		A	2.1
3	☐	1.000		6569453.38		A	1.1
4	☐	1.000		6624820.32		A	0.5
5	☐	1.000		6553955.39		A	0.6
6	☐	1.000		6693361.15		A	0.3
7	☐	1.000		6447911.23		A	0.6
8	☐	1.000		5285720.65		A	1.9

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4950827.84		A	1.0
2	☐	1.000		4994831.38		A	0.8
3	☐	1.000		4954275.69		A	1.2
4	☐	1.000		4834246.00		A	1.1
5	☐	1.000		4795917.26		A	0.4
6	☐	1.000		4837770.17		A	1.3
7	☐	1.000		4712696.94		A	0.6
8	☐	1.000		3967835.53		A	0.9

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7120623 MS.b
Acq. Date-Time 2023-12-06 13:33:53
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		18372	183719.08			0.616	5.000
24		87665	876648.48			0.684	5.000
25		11446	114463.74			0.682	5.000
26		13099	130989.54			0.690	5.000
59		85954	859536.56			0.358	5.000
113		11378	113784.57			0.381	5.000
115		137245	1372454.73			0.908	5.000
206		30468	304678.76			0.605	5.000
207		27394	273941.25			0.300	5.000
208		65155	651554.52			0.674	5.000
220		0	3.10			58.600	

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

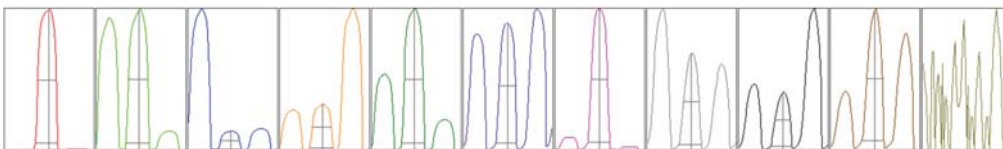
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	18309	18469	18518	18294	18269
24	86806	88411	87965	87712	87431
25	11326	11421	11478	11533	11475
26	12968	13060	13113	13205	13148
59	85684	85812	86398	86147	85728
113	11373	11369	11453	11344	11353
115	137489	138904	137693	136541	135601
206	30403	30545	30410	30737	30245
207	27413	27470	27457	27363	27268
208	65065	65920	64837	65060	64894

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	30701.19	9.00	8.90 - 9.10	
24	140554.24	23.95	23.90 - 24.10	
25	18691.38	24.95	24.90 - 25.10	
26	21213.93	25.95	25.90 - 26.10	
59	141376.43	58.95	58.90 - 59.10	
113	21388.36	113.00	112.90 - 113.10	
115	258333.02	115.00	114.90 - 115.10	
206	60112.80	206.00	205.90 - 206.10	
207	53438.54	207.00	206.90 - 207.10	
208	128369.58	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.745	0.900	
24	0.65	0.786	0.900	
25	0.64	0.775	0.900	
26	0.64	0.784	0.900	
59	0.63	0.780	0.900	
113	0.53	0.700	0.900	
115	0.54	0.737	0.900	
206	0.51	0.770	0.900	
207	0.51	0.727	0.900	
208	0.51	0.740	0.900	
220				

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	14.6 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	180 V		

QP Parameters

Mass Gain	132	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	129	Axis Offset	0.11		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	1.0 mm
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EM

Discriminator	4.6 mV	Analog HV	2301 V	Pulse HV	1377 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		26157	261568.58			0.268	
89		32673	326730.79			0.494	
205		32616	326158.83			0.510	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	26249	26195	26096	26080	26164
89	32950	32649	32586	32537	32643
205	32883	32643	32442	32536	32576

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	8.4 V	Deflect	2.6 V
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US EPA Tune Check Report

Extract 2	-105.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-60 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	129	Axis Offset	0.11		
Hardware Settings					
Torch					
Torch H	-0.3 mm	Torch V	1.0 mm		
EM					
Discriminator	4.6 mV	Analog HV	2301 V	Pulse HV	1377 V