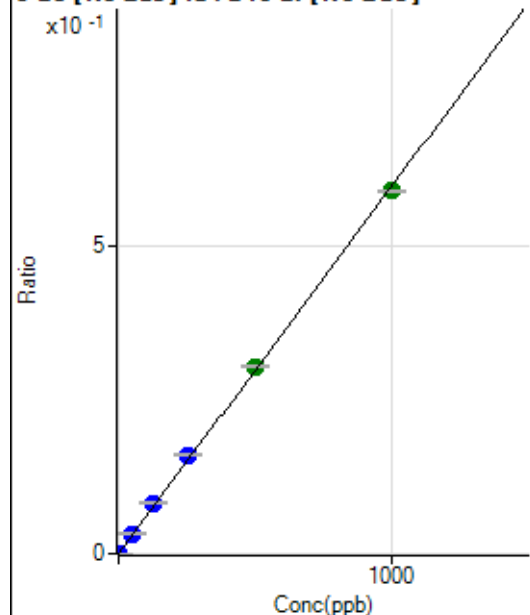


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8121522 MS.b\
Analysis File: P8121522 MS.batch.bin
DA Date-Time: 2022-12-16 00:33:41
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-12-15 09:56:23
2	005CALS.d	S02	2022-12-15 09:59:33
3	006CALS.d	S03	2022-12-15 10:02:46
4	007CALS.d	S04	2022-12-15 10:05:52
5	008CALS.d	S05	2022-12-15 10:09:01
6	009CALS.d	S06	2022-12-15 10:12:07
7	010CALS.d	S07	2022-12-15 10:15:17
8	011CALS.d	S08	2022-12-15 10:18:23

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18.75	0.0000	P	4.1
2	☐	1.000	1.072	2560.33	0.0006	P	5.8
3	☐	50.000	54.223	130589.86	0.0322	P	4.6
4	☐	125.000	137.266	321024.64	0.0816	P	2.4
5	☐	250.000	267.746	623603.44	0.1592	P	1.7
6	☐	500.000	510.583	1197262.22	0.3036	A	1.5
7	☐	1000.000	988.528	2299906.37	0.5877	A	0.8
8	☐			352.04	0.0001	P	4.4

$$y = 5.9456\text{E-}004 * x + 4.7900\text{E-}006$$

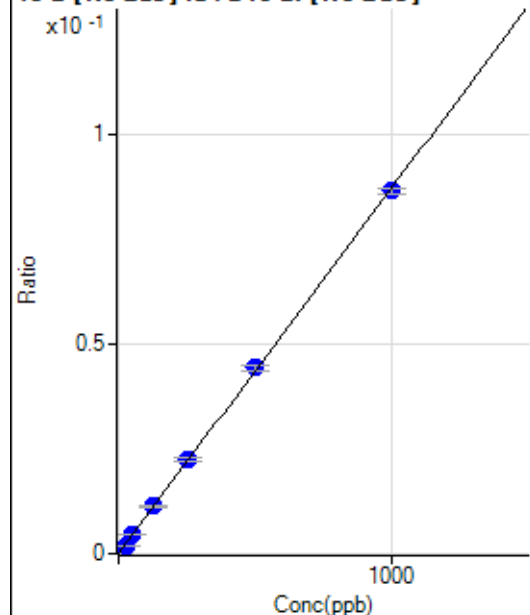
$$R = 0.9997$$

$$DL = 0.0009998$$

$$BEC = 0.008056$$

Weight: <None>

Min Conc: 0

10 B [No Gas] ISTD:6 Li [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	205.96	0.0001	P	8.8
2	☐	25.000	22.469	8036.65	0.0020	P	2.2
3	☐	50.000	49.959	17893.45	0.0044	P	1.8
4	☐	125.000	129.934	44857.13	0.0114	P	3.3
5	☐	250.000	259.048	88799.92	0.0227	P	4.5
6	☐	500.000	508.586	175368.48	0.0445	P	3.5
7	☐	1000.000	992.893	339453.64	0.0867	P	1.7
8	☐			22824.68	0.0063	P	7.5

$$y = 8.7309\text{E-}005 * x + 5.2646\text{E-}005$$

$$R = 0.9999$$

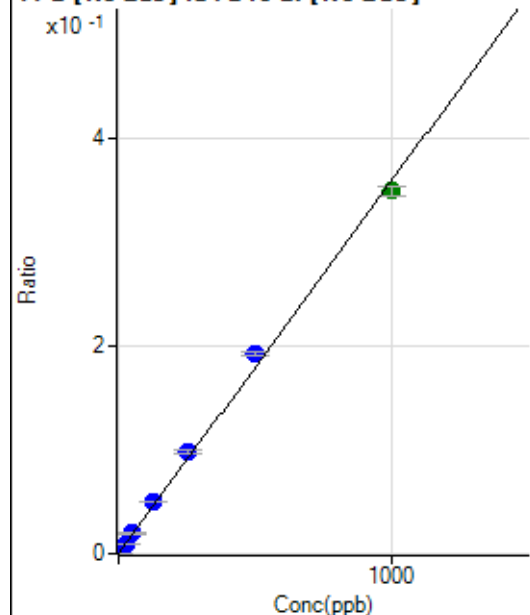
$$DL = 0.1586$$

$$BEC = 0.603$$

Weight: <None>

Min Conc: 0

11 B [No Gas] ISTD:6 Li [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	815.20	0.0002	P	1.4
2	☐	25.000	24.351	35622.26	0.0089	P	0.4
3	☐	50.000	53.686	78764.78	0.0194	P	3.8
4	☐	125.000	139.520	197406.38	0.0502	P	2.3
5	☐	250.000	274.665	385982.19	0.0985	P	3.1
6	☐	500.000	536.671	758643.03	0.1923	P	1.2
7	☐	1000.000	973.515	1364570.34	0.3487	A	2.8
8	☐			99006.91	0.0275	P	10.2

$$y = 3.5802\text{E-}004 * x + 2.0839\text{E-}004$$

$$R = 0.9985$$

$$DL = 0.02462$$

$$BEC = 0.5821$$

Weight: <None>

Min Conc: 0

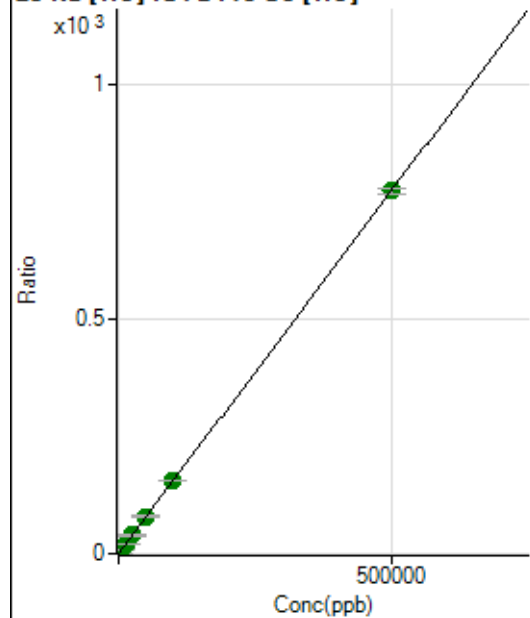
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			8309764.86		A	0.9
2	☐			8605150.28		A	0.7
3	☐			7952794.62		A	1.2
4	☐			7903305.82		A	1.4
5	☐			7753984.72		A	1.0
6	☐			7754795.57		A	1.0
7	☐			8184361.47		A	1.0
8	☐			7706149.65		A	1.4

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			96563.80		P	0.6
2	☐			100121.19		P	1.4
3	☐			96133.08		P	1.3
4	☐			96015.59		P	0.4
5	☐			94192.97		P	2.5
6	☐			96309.37		P	0.6
7	☐			101169.91		P	1.1
8	☐			96963.62		P	0.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19502.38	0.1248	P	3.0
2	☐	500.000	479.566	135724.41	0.8655	P	3.8
3	☐	5000.000	5236.965	1328852.00	8.2133	A	1.4
4	☐	12500.000	13011.567	3177943.19	20.2213	A	2.5
5	☐	25000.000	25415.167	6081806.69	39.3788	A	5.2
6	☐	50000.000	51070.057	12255978.40	79.0031	A	2.0
7	☐	100000.00	100366.99	24525302.46	155.1429	A	1.5
8	☐	500000.00	499783.69	126418498.6	772.0469	A	1.7

$$y = 0.0015 * x + 0.1248$$

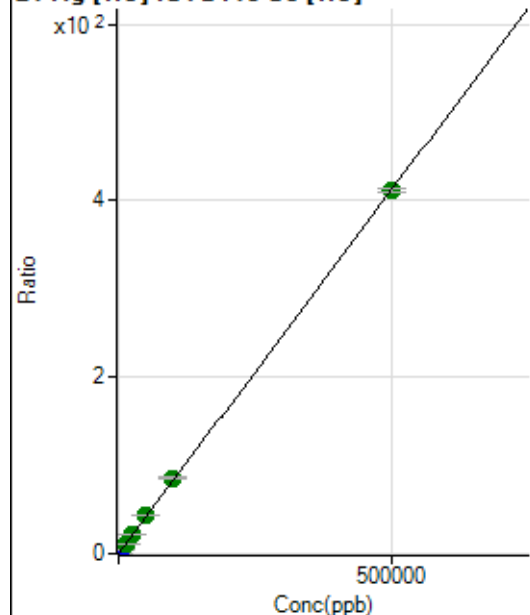
$$R = 1.0000$$

$$DL = 7.236$$

$$BEC = 80.79$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	194.45	0.0012	P	8.6
2	☐	500.000	503.346	65238.75	0.4160	P	2.1
3	☐	5000.000	5401.596	720255.86	4.4518	P	2.6
4	☐	12500.000	13827.744	1790734.02	11.3943	A	2.2
5	☐	25000.000	27125.254	3451799.21	22.3504	A	3.2
6	☐	50000.000	53650.039	6857413.78	44.2048	A	1.7
7	☐	100000.00	103690.66	13505371.13	85.4345	A	2.4
8	☐	500000.00	498753.38	67287473.73	410.9365	A	0.9

$$y = 8.2392\text{E-}004 * x + 0.0012$$

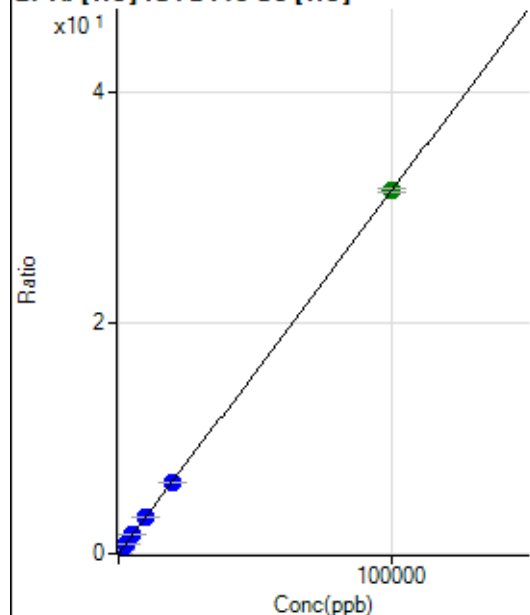
$$R = 1.0000$$

$$DL = 0.3892$$

$$BEC = 1.51$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	64.57	0.0004	P	9.0
2	☐	20.000	20.424	1070.74	0.0068	P	1.1
3	☐	1000.000	1026.607	52215.26	0.3227	P	2.1
4	☐	2500.000	2615.337	129119.87	0.8215	P	2.3
5	☐	5000.000	5177.732	251138.53	1.6260	P	1.6
6	☐	10000.000	10277.682	500611.82	3.2272	P	0.9
7	☐	20000.000	19658.312	975739.13	6.1724	P	1.9
8	☐	100000.00	100028.53	5142280.14	31.4059	A	1.1

$$y = 3.1397\text{E-}004 * x + 4.1323\text{E-}004$$

$$R = 1.0000$$

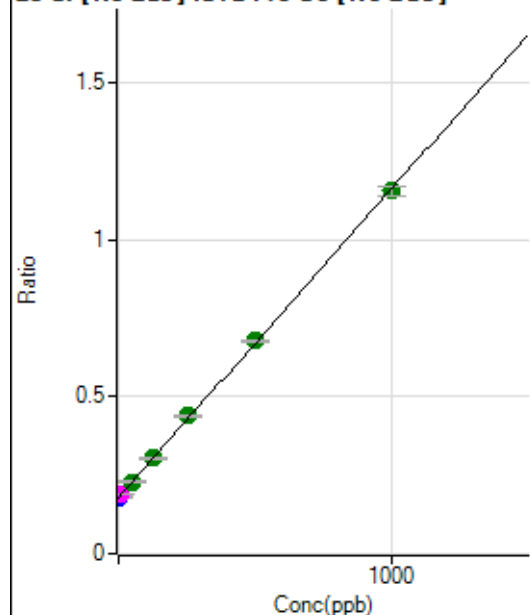
$$DL = 0.3534$$

$$BEC = 1.316$$

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	829235.50	0.1794	P	2.9
2	☐	10.000	9.136	876432.53	0.1883	M	1.6
3	☐	50.000	49.691	1064639.70	0.2282	A	2.9
4	☐	125.000	127.209	1426800.65	0.3043	A	1.3
5	☐	250.000	263.401	2019753.09	0.4381	A	1.7
6	☐	500.000	507.088	3170064.53	0.6774	A	1.4
7	☐	1000.000	992.854	5534574.47	1.1545	A	2.6
8	☐			908948.09	0.1937	A	3.3

$$y = 9.8211E-004 * x + 0.1794$$

R = 0.9998

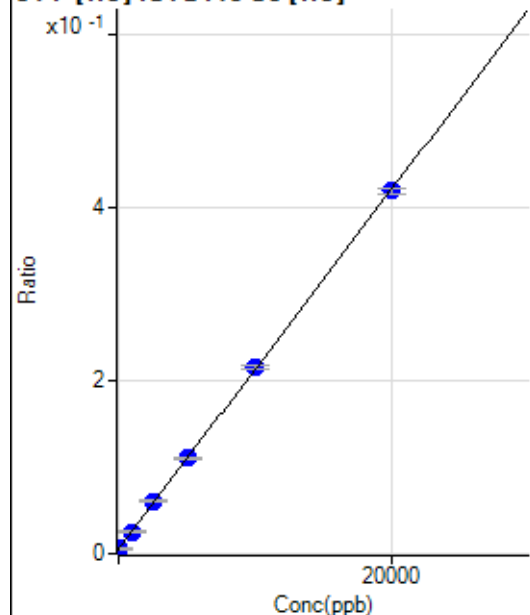
DL = 15.79

BEC = 182.6

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-3.880	852.83	0.0055	P	18.8
2	☐	0.000	3.880	880.61	0.0056	P	13.7
3	☐	1000.000	948.992	4084.01	0.0252	P	4.0
4	☐	2500.000	2654.518	9533.94	0.0607	P	2.8
5	☐	5000.000	5034.018	17002.06	0.1101	P	3.7
6	☐	10000.000	10106.695	33414.24	0.2154	P	2.8
7	☐	20000.000	19921.384	66280.08	0.4193	P	1.8
8	☐			883.38	0.0054	P	10.6

$$y = 2.0768E-005 * x + 0.0055$$

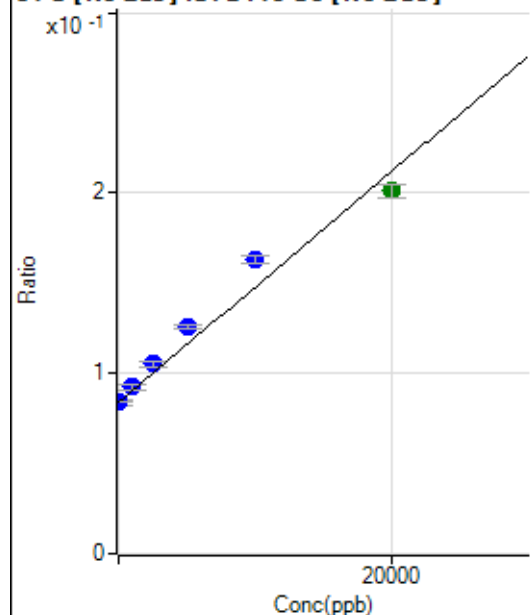
R = 0.9999

DL = 129.4

BEC = 266.5

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	-22.559	387253.51	0.0838	P	4.0
2	☐	0.000	22.559	391215.66	0.0841	P	0.5
3	☐	1000.000	1298.225	430375.44	0.0922	P	2.5
4	☐	2500.000	3303.129	492538.50	0.1051	P	2.4
5	☐	5000.000	6548.768	580114.41	0.1258	P	2.4
6	☐	10000.000	12373.879	763147.51	0.1631	P	2.8
7	☐	20000.000	18310.566	964082.46	0.2011	A	3.4
8	☐			316832.58	0.0675	P	2.9

$$y = 6.3989E-006 * x + 0.0839$$

$$R = 0.9846$$

$$DL = 878.9$$

$$BEC = 1.312E+04$$

Weight: <None>

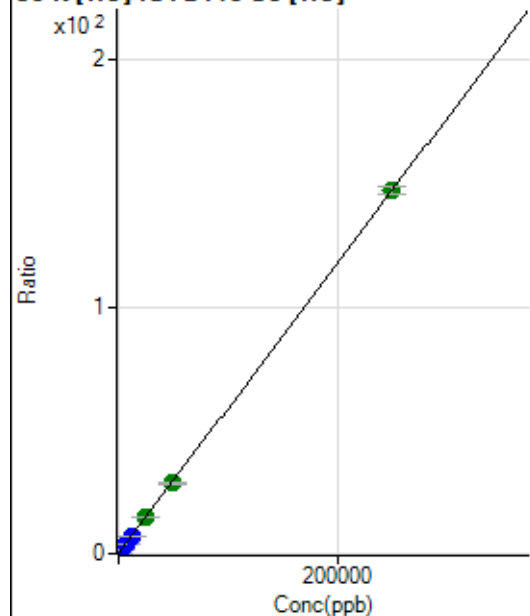
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			171592.22		P	0.4
2	☐			200657.48		P	0.8
3	☐			198162.50		P	0.5
4	☐			191701.68		P	1.3
5	☐			190615.06		P	0.8
6	☐			191688.19		P	2.2
7	☐			195273.49		P	1.1
8	☐			189781.20		P	0.3

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1177.86		P	5.4
2	☐			1502.90		P	3.6
3	☐			1444.55		P	3.3
4	☐			1455.67		P	13.2
5	☐			1405.66		P	8.7
6	☐			1388.99		P	10.5
7	☐			1455.67		P	10.1
8	☐			1469.56		P	10.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19321.77	0.1236	P	2.1
2	☐	500.000	440.317	59930.72	0.3821	P	2.3
3	☐	2500.000	2424.332	250255.01	1.5468	P	2.7
4	☐	6250.000	6191.283	590626.86	3.7581	P	1.8
5	☐	12500.000	12252.711	1130013.18	7.3163	P	1.1
6	☐	25000.000	24999.698	2295675.64	14.7992	A	1.1
7	☐	50000.000	48451.160	4515862.30	28.5659	A	1.1
8	☐	250000.00	250324.50	24078466.51	147.0716	A	2.1

$$y = 5.8703\text{E-}004 * x + 0.1236$$

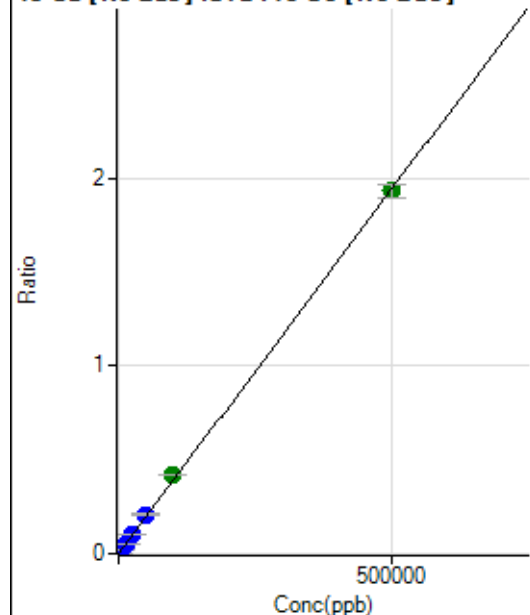
$$R = 1.0000$$

$$DL = 13.54$$

$$BEC = 210.6$$

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	136.65	0.0000	P	7.9
2	☐	500.000	455.475	8370.57	0.0018	P	0.6
3	☐	5000.000	5545.110	100620.65	0.0216	P	3.7
4	☐	12500.000	13618.996	248132.24	0.0529	P	2.7
5	☐	25000.000	27152.812	486396.02	0.1055	P	2.4
6	☐	50000.000	53433.076	971294.54	0.2076	P	2.6
7	☐	100000.00	108076.74	2012954.43	0.4198	A	1.9
8	☐	500000.00	497900.32	9075350.18	1.9341	A	3.5

$$y = 3.8844\text{E-}006 * x + 2.9577\text{E-}005$$

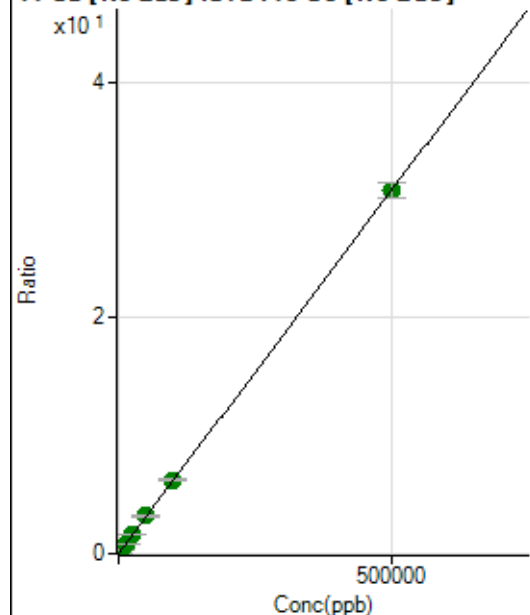
$$R = 0.9999$$

$$DL = 1.797$$

$$BEC = 7.614$$

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	9566.59	0.0021	P	4.2
2	☐	500.000	471.039	144544.39	0.0311	P	1.4
3	☐	5000.000	5362.374	1549238.15	0.3321	A	4.3
4	☐	12500.000	12990.422	3758012.00	0.8016	A	2.8
5	☐	25000.000	26551.322	7544393.11	1.6363	A	1.8
6	☐	50000.000	51896.497	14955627.65	3.1964	A	2.4
7	☐	100000.00	101180.97	29865155.03	6.2299	A	3.0
8	☐	500000.00	499480.73	144250287.2	30.7457	A	4.2

$$y = 6.1551\text{E-}005 * x + 0.0021$$

$$R = 1.0000$$

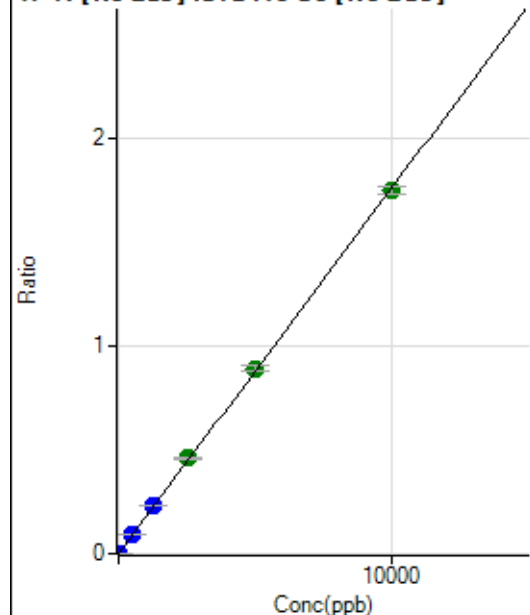
$$DL = 4.239$$

$$BEC = 33.63$$

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	230.57	0.0000	P	23.6
2	☐	5.000	4.917	4261.85	0.0009	P	6.2
3	☐	500.000	530.233	436034.85	0.0935	P	3.3
4	☐	1250.000	1311.996	1083723.55	0.2312	P	3.2
5	☐	2500.000	2618.362	2126822.59	0.4613	A	2.8
6	☐	5000.000	5059.537	4170490.02	0.8914	A	3.0
7	☐	10000.000	9931.380	8389250.71	1.7496	A	2.3
8	☐			2164.11	0.0005	P	7.0

$$y = 1.7617E-004 * x + 4.9693E-005$$

$$R = 0.9999$$

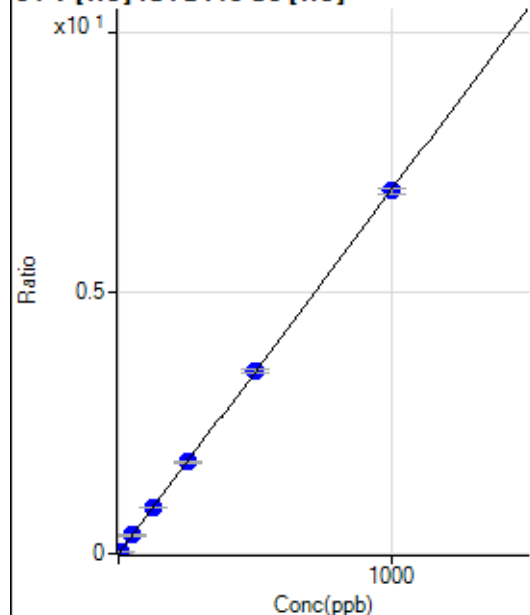
$$DL = 0.1999$$

$$BEC = 0.2821$$

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	6.67	0.0000	P	50.4
2	☐	5.000	4.602	5039.82	0.0321	P	4.4
3	☐	50.000	50.246	56708.81	0.3505	P	1.6
4	☐	125.000	126.725	138921.50	0.8839	P	1.9
5	☐	250.000	251.885	271350.77	1.7569	P	1.8
6	☐	500.000	503.630	544945.56	3.5128	P	1.8
7	☐	1000.000	997.488	1099826.19	6.9575	P	1.9
8	☐			375.57	0.0023	P	31.3

$$y = 0.0070 * x + 4.2693E-005$$

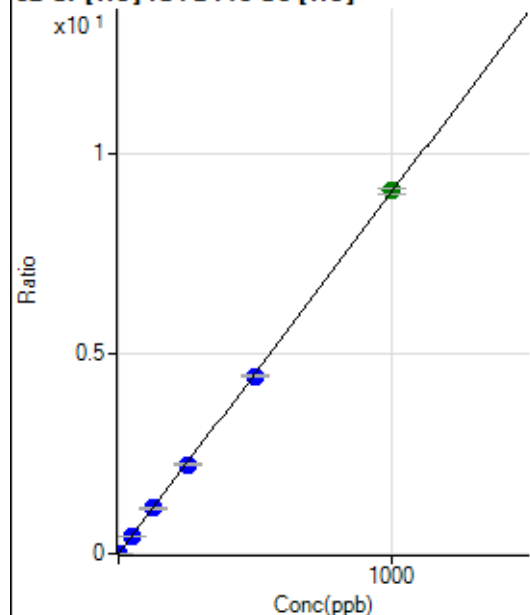
$$R = 1.0000$$

$$DL = 0.009247$$

$$BEC = 0.006121$$

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	475.57	0.0030	P	6.6
2	☐	2.000	1.762	2968.12	0.0189	P	3.4
3	☐	50.000	49.705	72986.70	0.4511	P	0.9
4	☐	125.000	126.163	179236.10	1.1404	P	2.6
5	☐	250.000	247.228	344684.57	2.2317	P	1.5
6	☐	500.000	492.180	688753.36	4.4399	P	1.7
7	☐	1000.000	1004.473	1431956.51	9.0580	A	1.8
8	☐			9880.18	0.0603	P	2.0

$$y = 0.0090 * x + 0.0030$$

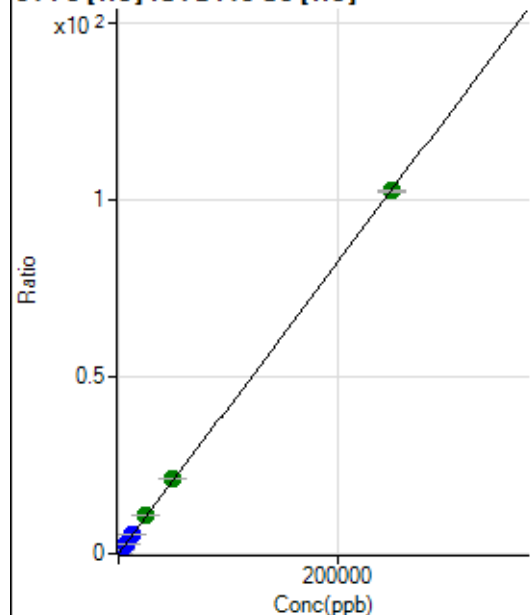
$$R = 0.9999$$

$$DL = 0.067$$

$$BEC = 0.3376$$

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	594.47	0.0038	P	7.3
2	☐	50.000	49.112	3765.38	0.0240	P	6.2
3	☐	2500.000	2545.890	170101.62	1.0514	P	1.8
4	☐	6250.000	6501.535	421049.58	2.6790	P	2.0
5	☐	12500.000	12944.514	823218.27	5.3301	P	1.5
6	☐	25000.000	26514.954	1693021.13	10.9139	A	2.1
7	☐	50000.000	51260.197	3334834.97	21.0957	A	0.8
8	☐	250000.00	249567.49	16815820.86	102.6928	A	0.7

$$y = 4.1147E-004 * x + 0.0038$$

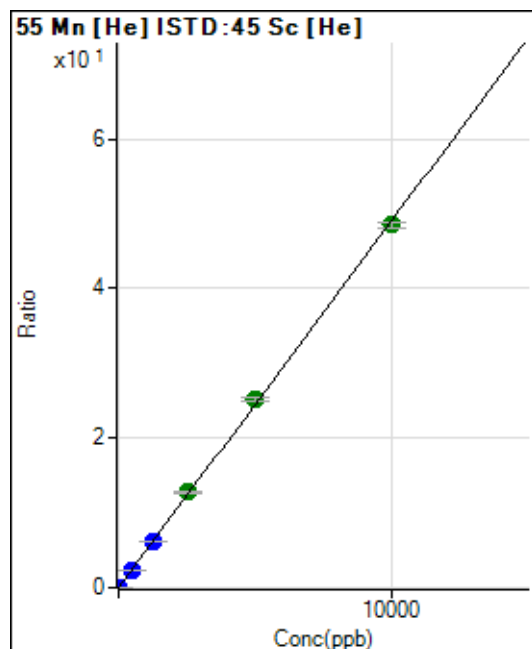
$$R = 1.0000$$

$$DL = 2.014$$

$$BEC = 9.243$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	43.33	0.0003	P	34.0
2	☐	1.000	0.951	774.47	0.0049	P	9.2
3	☐	500.000	493.146	391185.45	2.4178	P	2.0
4	☐	1250.000	1256.098	967902.27	6.1581	P	1.7
5	☐	2500.000	2607.960	1974734.31	12.7854	A	1.9
6	☐	5000.000	5154.644	3920277.76	25.2701	A	2.2
7	☐	10000.000	9895.269	7668828.22	48.5102	A	1.3
8	☐			8535.99	0.0522	P	4.5

$$y = 0.0049 * x + 2.7751E-004$$

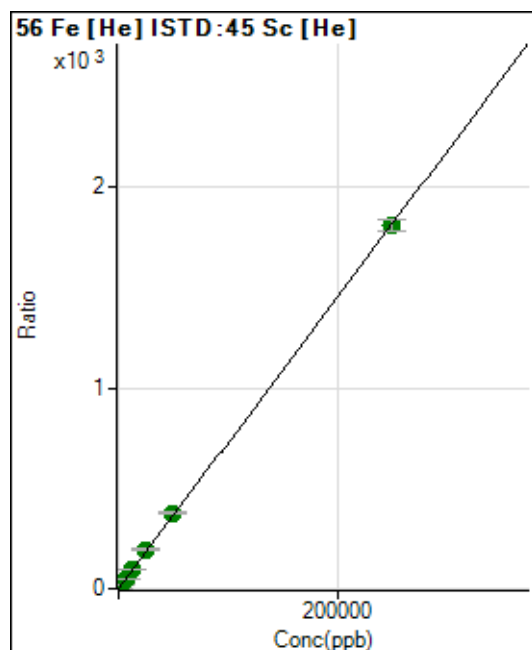
$$R = 0.9997$$

$$DL = 0.05771$$

$$BEC = 0.05661$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2913.32	0.0186	P	4.6
2	☐	50.000	47.797	57259.40	0.3651	P	3.9
3	☐	2500.000	2664.521	3128092.78	19.3342	A	1.8
4	☐	6250.000	6780.414	7728275.58	49.1709	A	2.4
5	☐	12500.000	13511.229	15131083.09	97.9637	A	2.2
6	☐	25000.000	26722.262	30056356.00	193.7325	A	3.0
7	☐	50000.000	52175.433	59798311.06	378.2465	A	2.3
8	☐	250000.00	249327.22	296062210.3	1,807.430	A	3.3

$$y = 0.0072 * x + 0.0186$$

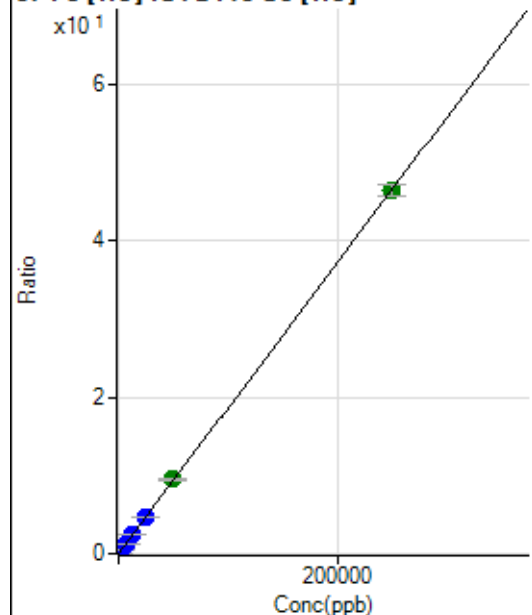
$$R = 0.9999$$

$$DL = 0.3576$$

$$BEC = 2.572$$

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	209.26	0.0013	P	19.7
2	☐	50.000	44.740	1511.22	0.0096	P	8.2
3	☐	2500.000	2529.257	76132.55	0.4706	P	1.2
4	☐	6250.000	6387.940	186473.16	1.1864	P	3.0
5	☐	12500.000	12790.435	366732.74	2.3742	P	2.3
6	☐	25000.000	25497.318	733984.31	4.7315	P	1.4
7	☐	50000.000	51282.277	1504176.13	9.5151	A	3.4
8	☐	250000.00	249675.55	7585486.39	46.3204	A	3.2

$$y = 1.8552\text{E-}004 * x + 0.0013$$

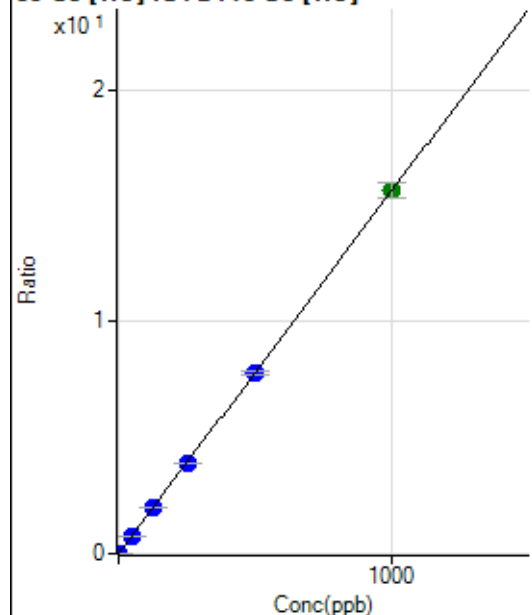
$$R = 1.0000$$

$$DL = 4.262$$

$$BEC = 7.221$$

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	42.22	0.0003	P	31.5
2	☐	1.000	0.953	2380.23	0.0152	P	3.9
3	☐	50.000	49.929	126354.76	0.7810	P	1.7
4	☐	125.000	126.896	311892.16	1.9844	P	1.9
5	☐	250.000	250.496	604979.47	3.9171	P	0.6
6	☐	500.000	498.312	1208695.60	7.7919	P	1.3
7	☐	1000.000	1000.487	2473156.92	15.6440	A	4.2
8	☐			2354.67	0.0144	P	7.6

$$y = 0.0156 * x + 2.6990\text{E-}004$$

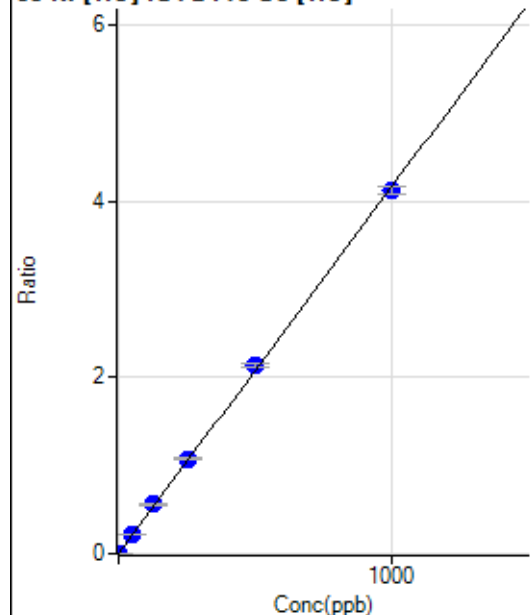
$$R = 1.0000$$

$$DL = 0.01629$$

$$BEC = 0.01726$$

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	54.45	0.0003	P	43.4
2	☐	1.000	1.001	708.91	0.0045	P	6.8
3	☐	50.000	52.095	35152.38	0.2173	P	2.7
4	☐	125.000	133.725	87570.54	0.5572	P	2.2
5	☐	250.000	258.269	166147.70	1.0758	P	1.7
6	☐	500.000	514.445	332300.05	2.1425	P	1.3
7	☐	1000.000	989.515	651400.09	4.1206	P	2.1
8	☐			2191.30	0.0134	P	4.3

$$y = 0.0042 * x + 3.4884E-004$$

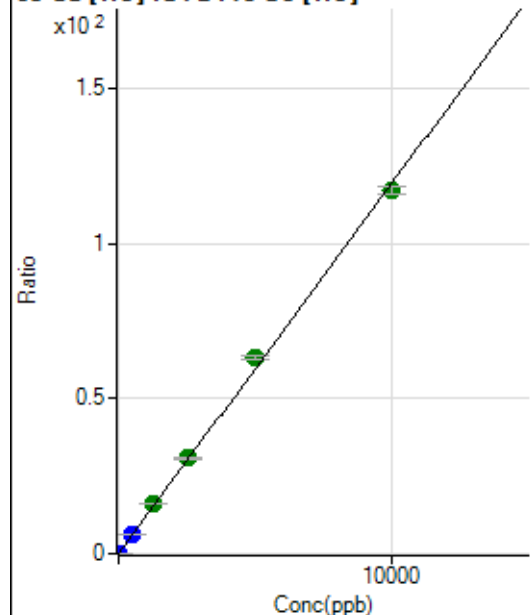
$$R = 0.9998$$

$$DL = 0.1091$$

$$BEC = 0.08378$$

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	658.91	0.0042	P	8.8
2	☐	2.000	1.989	4387.39	0.0280	P	5.6
3	☐	500.000	505.034	976798.41	6.0374	P	1.6
4	☐	1250.000	1332.854	2503211.73	15.9266	A	0.8
5	☐	2500.000	2590.246	4779400.03	30.9474	A	2.1
6	☐	5000.000	5315.985	9849701.80	63.5092	A	2.3
7	☐	10000.000	9808.838	18524791.95	117.1811	A	2.2
8	☐			6423.88	0.0393	P	19.3

$$y = 0.0119 * x + 0.0042$$

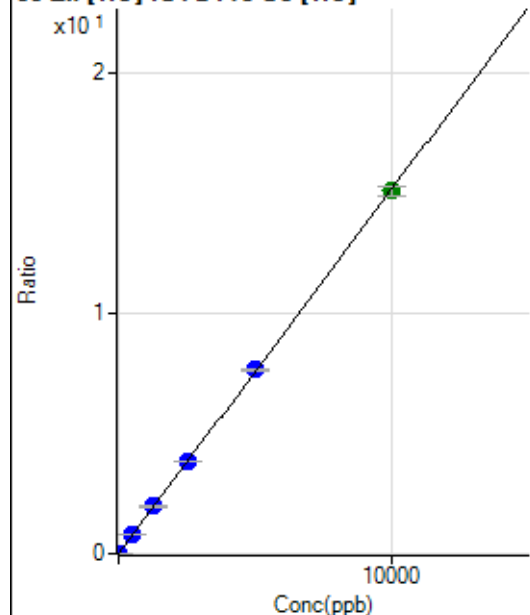
$$R = 0.9992$$

$$DL = 0.09264$$

$$BEC = 0.3528$$

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	146.67	0.0009	P	5.0
2	☐	2.000	2.228	677.80	0.0043	P	3.9
3	☐	500.000	508.479	125021.11	0.7727	P	1.2
4	☐	1250.000	1293.545	308732.98	1.9643	P	2.0
5	☐	2500.000	2546.247	597049.49	3.8657	P	0.2
6	☐	5000.000	5042.812	1187276.46	7.6551	P	1.5
7	☐	10000.000	9961.165	2390310.59	15.1204	A	2.7
8	☐			1859.03	0.0114	P	7.4

$$y = 0.0015 * x + 9.3859E-004$$

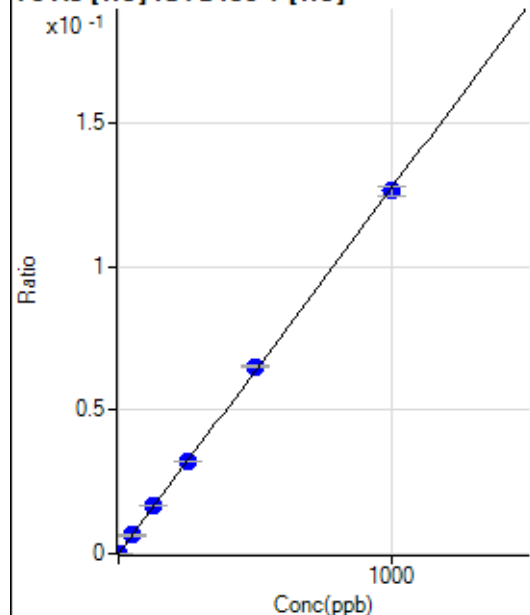
$$R = 1.0000$$

$$DL = 0.09309$$

$$BEC = 0.6184$$

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	4.33	0.0000	P	35.6
2	☐	1.000	1.035	146.68	0.0001	P	7.0
3	☐	50.000	50.588	7093.84	0.0064	P	2.8
4	☐	125.000	130.795	17875.07	0.0167	P	2.5
5	☐	250.000	252.467	34414.28	0.0321	P	1.1
6	☐	500.000	511.365	69503.44	0.0651	P	1.1
7	☐	1000.000	992.947	137765.16	0.1264	P	2.7
8	☐			59.01	0.0001	P	21.8

$$y = 1.2729E-004 * x + 4.0185E-006$$

$$R = 0.9999$$

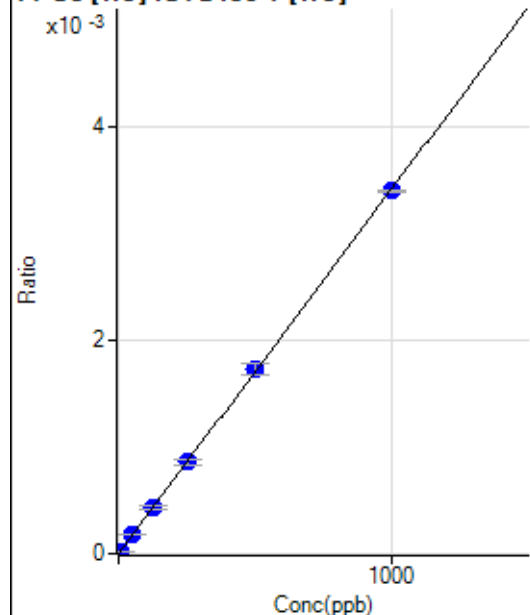
$$DL = 0.03375$$

$$BEC = 0.03157$$

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	5.721	21.11	0.0000	P	23.1
3	☐	50.000	51.777	194.45	0.0002	P	5.9
4	☐	125.000	125.375	458.90	0.0004	P	10.4
5	☐	250.000	251.658	918.93	0.0009	P	7.1
6	☐	500.000	507.768	1849.03	0.0017	P	5.8
7	☐	1000.000	995.562	3702.74	0.0034	P	0.7
8	☐			3.33	0.0000	P	99.5

$$y = 3.4118\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 1.0000$$

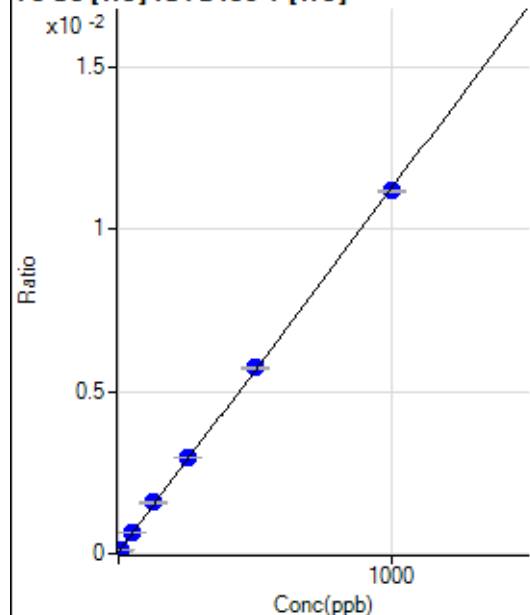
$$DL = 0$$

$$BEC = 0$$

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	61.01	0.0001	P	24.5
2	☐	5.000	4.950	121.01	0.0001	P	5.4
3	☐	50.000	51.277	694.76	0.0006	P	2.4
4	☐	125.000	135.539	1691.28	0.0016	P	2.5
5	☐	250.000	259.206	3170.35	0.0030	P	0.9
6	☐	500.000	506.707	6122.29	0.0057	P	1.1
7	☐	1000.000	992.964	12189.49	0.0112	P	0.7
8	☐			75.01	0.0001	P	13.5

$$y = 1.1205\text{E-}005 * x + 5.6532\text{E-}005$$

$$R = 0.9999$$

$$DL = 3.706$$

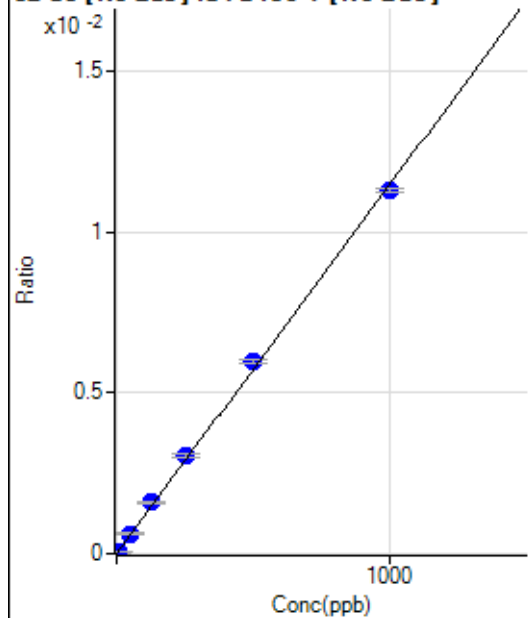
$$BEC = 5.045$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35632.30		P	5.1
2	☐			34371.51		P	3.5
3	☐			32899.62		P	0.7
4	☐			33427.86		P	1.7
5	☐			33799.25		P	5.5
6	☐			32621.97		P	4.8
7	☐			33615.71		P	2.0
8	☐			35665.86		P	5.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	21.67	0.0000	P	48.3
2	☐	5.000	5.128	596.21	0.0001	P	7.0
3	☐	50.000	54.433	6184.52	0.0006	P	4.3
4	☐	125.000	138.267	15514.58	0.0016	P	2.9
5	☐	250.000	263.942	30224.46	0.0030	P	3.6
6	☐	500.000	521.361	59377.62	0.0060	P	2.4
7	☐	1000.000	983.954	117194.93	0.0113	P	1.2
8	☐			166.24	0.0000	P	4.9

$$y = 1.1475E-005 * x + 2.2122E-006$$

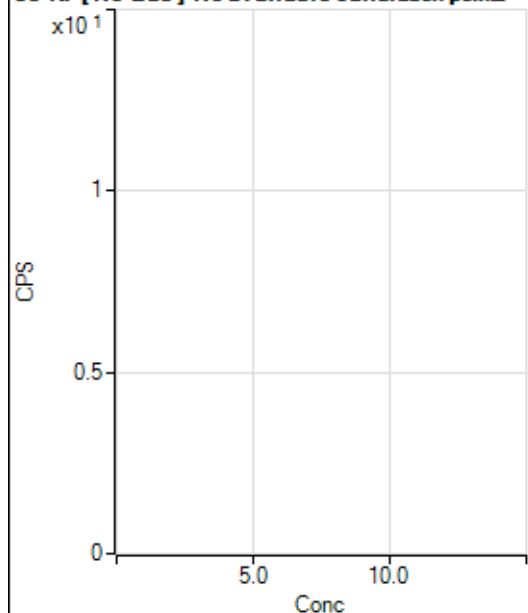
$$R = 0.9995$$

$$DL = 0.2794$$

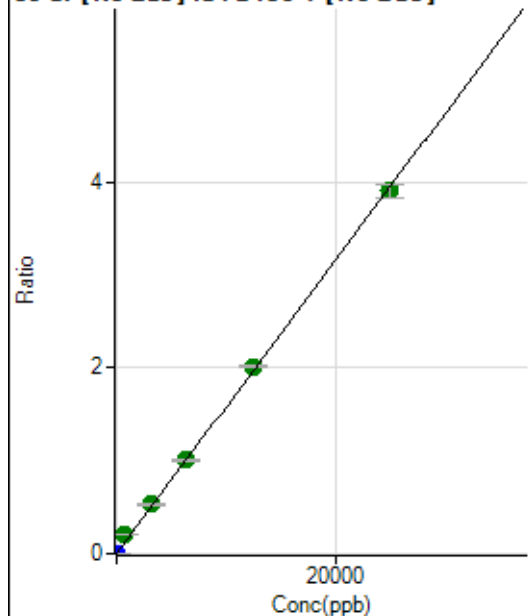
$$BEC = 0.1928$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			377.46		P	3.9
2	☐			401.63		P	1.6
3	☐			387.88		P	5.7
4	☐			401.21		P	3.9
5	☐			399.13		P	2.5
6	☐			395.79		P	6.7
7	☐			399.96		P	6.1
8	☐			434.12		P	0.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	594.47	0.0001	P	10.6
2	☐	1.000	1.003	2139.10	0.0002	P	6.2
3	☐	625.000	1319.989	2052252.72	0.2079	A	2.5
4	☐	3125.000	3358.606	5164354.98	0.5290	A	3.9
5	☐	6250.000	6393.867	10041906.13	1.0070	A	2.5
6	☐	12500.000	12783.001	19976134.82	2.0131	A	0.6
7	☐	25000.000	24775.957	40480341.53	3.9018	A	4.0
8	☐			12884.04	0.0013	P	6.3

$$y = 1.5748\text{E-}004 * x + 6.0875\text{E-}005$$

$$R = 0.9996$$

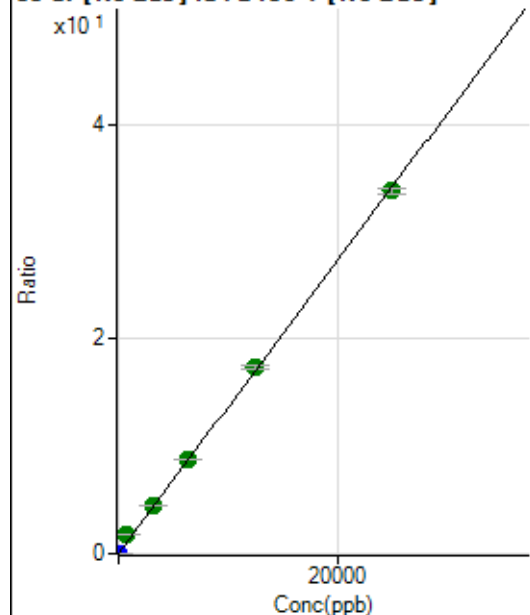
$$DL = 0.1227$$

$$BEC = 0.3866$$

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	111.11	0.0000	P	15.0
2	☐	1.000	0.979	13153.76	0.0013	P	8.4
3	☐	625.000	1299.102	17482912.89	1.7713	A	2.2
4	☐	3125.000	3308.754	44057061.40	4.5114	A	2.4
5	☐	6250.000	6464.291	87907042.94	8.8138	A	0.8
6	☐	12500.000	12729.326	172199853.8	17.3559	A	1.7
7	☐	25000.000	24791.942	350824966.1	33.8027	A	1.8
8	☐			107237.98	0.0105	P	3.2

$$y = 0.0014 * x + 1.1365E-005$$

$$R = 0.9996$$

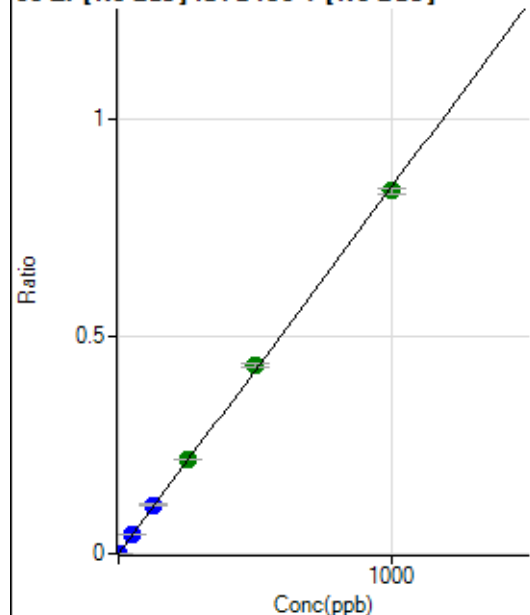
$$DL = 0.003762$$

$$BEC = 0.008336$$

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	352.79	0.0000	P	8.2
2	☐	1.000	0.973	8374.99	0.0009	P	3.0
3	☐	50.000	51.866	432684.08	0.0438	P	3.5
4	☐	125.000	132.380	1092101.92	0.1119	P	3.4
5	☐	250.000	256.613	2162181.73	0.2168	A	1.7
6	☐	500.000	515.858	4323951.66	0.4358	A	2.2
7	☐	1000.000	989.402	8673243.34	0.8358	A	1.3
8	☐			2541.97	0.0002	P	5.9

$$y = 8.4472E-004 * x + 3.6118E-005$$

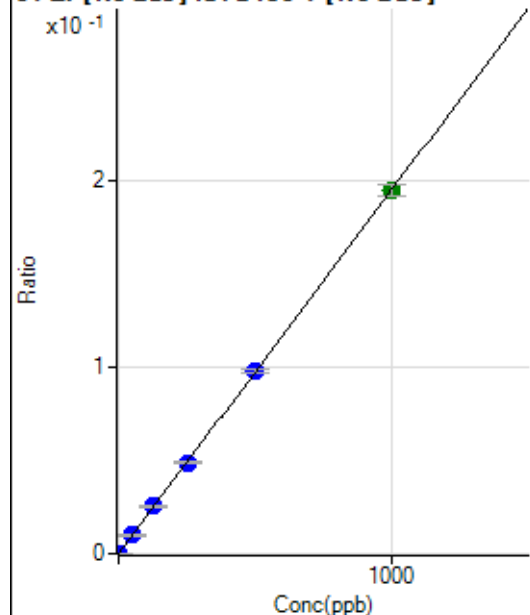
$$R = 0.9998$$

$$DL = 0.01047$$

$$BEC = 0.04276$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	55.56	0.0000	P	22.3
2	☐	1.000	0.974	1908.52	0.0002	P	0.5
3	☐	50.000	50.824	97749.34	0.0099	P	3.2
4	☐	125.000	129.691	246722.38	0.0253	P	3.3
5	☐	250.000	249.913	485550.66	0.0487	P	2.1
6	☐	500.000	503.099	972382.21	0.0980	P	2.3
7	☐	1000.000	997.844	2016860.99	0.1944	A	3.3
8	☐			613.92	0.0001	P	14.5

$$y = 1.9480\text{E-}004 * x + 5.6810\text{E-}006$$

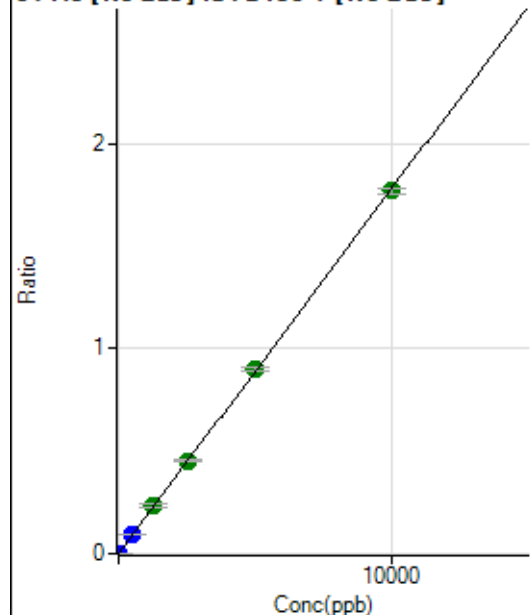
$$R = 1.0000$$

$$DL = 0.0195$$

$$BEC = 0.02916$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	108.34	0.0000	P	14.6
2	☐	5.000	5.878	10315.21	0.0011	P	0.2
3	☐	500.000	514.337	902511.64	0.0915	P	2.4
4	☐	1250.000	1316.695	2285016.65	0.2341	A	4.3
5	☐	2500.000	2555.275	4530329.49	0.4543	A	2.5
6	☐	5000.000	5064.141	8932340.22	0.9003	A	2.1
7	☐	10000.000	9945.056	18347491.90	1.7681	A	1.4
8	☐			5795.81	0.0006	P	4.6

$$y = 1.7778\text{E-}004 * x + 1.1080\text{E-}005$$

$$R = 0.9999$$

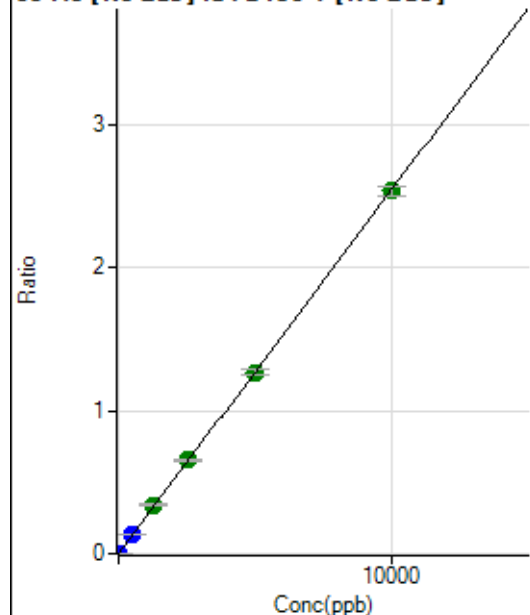
$$DL = 0.02735$$

$$BEC = 0.06232$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13.89	0.0000	P	91.7
2	☐	5.000	5.086	12661.65	0.0013	P	4.0
3	☐	500.000	517.181	1298907.74	0.1316	P	3.6
4	☐	1250.000	1339.956	3330265.94	0.3411	A	3.1
5	☐	2500.000	2565.577	6511857.96	0.6530	A	3.7
6	☐	5000.000	4993.644	12609624.67	1.2711	A	3.5
7	☐	10000.000	9974.680	26344221.08	2.5389	A	2.6
8	☐			7138.17	0.0007	P	4.1

$$y = 2.5454\text{E-}004 * x + 1.4286\text{E-}006$$

$$R = 0.9999$$

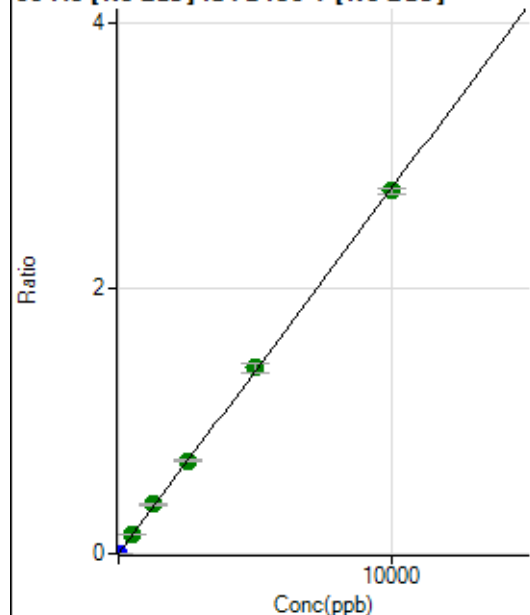
$$DL = 0.01543$$

$$BEC = 0.005613$$

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	66.67	0.0000	P	32.2
2	☐	5.000	5.093	13762.77	0.0014	P	3.2
3	☐	500.000	520.262	1413124.86	0.1432	A	4.0
4	☐	1250.000	1356.830	3647432.03	0.3735	A	2.7
5	☐	2500.000	2539.474	6971895.99	0.6991	A	2.5
6	☐	5000.000	5089.271	13895596.06	1.4010	A	4.9
7	☐	10000.000	9931.129	28370821.12	2.7339	A	1.3
8	☐			18167.97	0.0018	P	2.5

$$y = 2.7529\text{E-}004 * x + 6.8109\text{E-}006$$

$$R = 0.9999$$

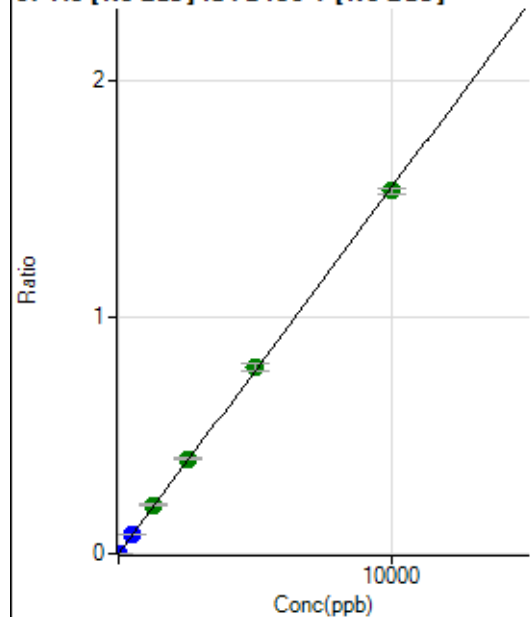
$$DL = 0.02387$$

$$BEC = 0.02474$$

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	11.11	0.0000	P	115.
2	☐	5.000	4.951	7493.88	0.0008	P	6.1
3	☐	500.000	527.680	805031.79	0.0816	P	3.9
4	☐	1250.000	1327.082	2003447.39	0.2052	A	3.3
5	☐	2500.000	2593.461	3999441.06	0.4010	A	1.4
6	☐	5000.000	5111.184	7839310.16	0.7903	A	3.8
7	☐	10000.000	9910.023	15902193.93	1.5323	A	1.5
8	☐			4656.49	0.0005	P	11.8

$$y = 1.5462\text{E-}004 * x + 1.1386\text{E-}006$$

$$R = 0.9998$$

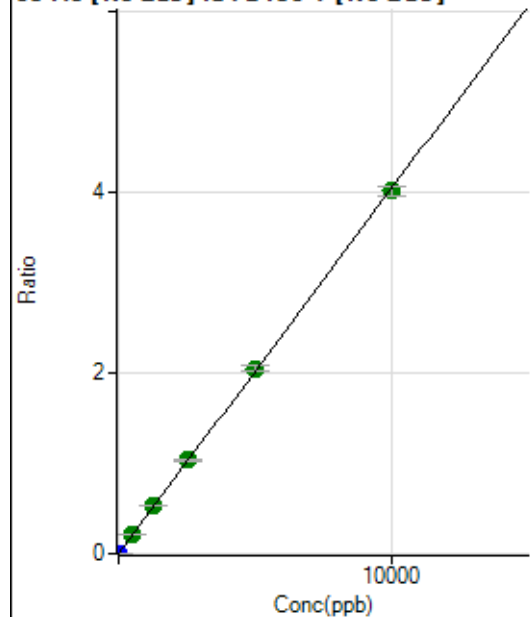
$$DL = 0.02543$$

$$BEC = 0.007364$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	30.56	0.0000	P	30.6
2	☐	5.000	4.893	19319.53	0.0020	P	1.4
3	☐	500.000	526.690	2098023.40	0.2126	A	3.4
4	☐	1250.000	1301.849	5133070.56	0.5255	A	1.6
5	☐	2500.000	2560.165	10306686.51	1.0334	A	1.5
6	☐	5000.000	5081.742	20350186.05	2.0513	A	2.6
7	☐	10000.000	9936.272	41614211.00	4.0109	A	3.0
8	☐			11182.58	0.0011	P	3.9

$$y = 4.0366\text{E-}004 * x + 3.1219\text{E-}006$$

$$R = 0.9999$$

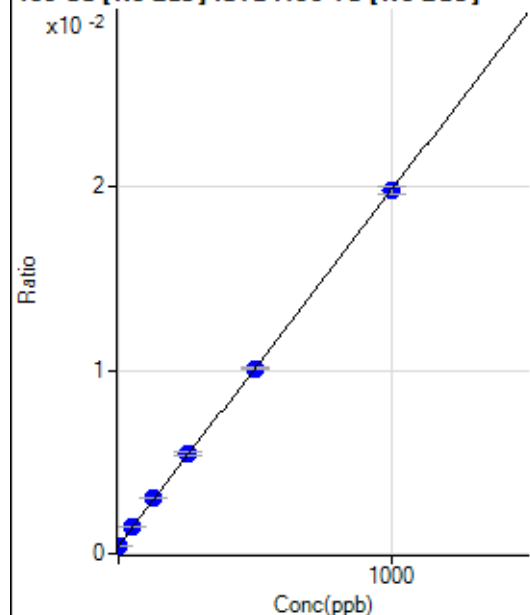
$$DL = 0.007089$$

$$BEC = 0.007734$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3131.00	0.0004	P	5.7
2	☐	1.000	0.430	3250.47	0.0004	P	2.0
3	☐	50.000	52.949	10876.87	0.0015	P	0.5
4	☐	125.000	134.111	22416.06	0.0030	P	1.3
5	☐	250.000	257.075	40660.92	0.0054	P	3.1
6	☐	500.000	498.757	76996.44	0.0101	P	1.0
7	☐	1000.000	997.567	151710.09	0.0198	P	2.0
8	☐			3250.46	0.0004	P	2.3

$$y = 1.9383\text{E-}005 * x + 4.3673\text{E-}004$$

$$R = 0.9999$$

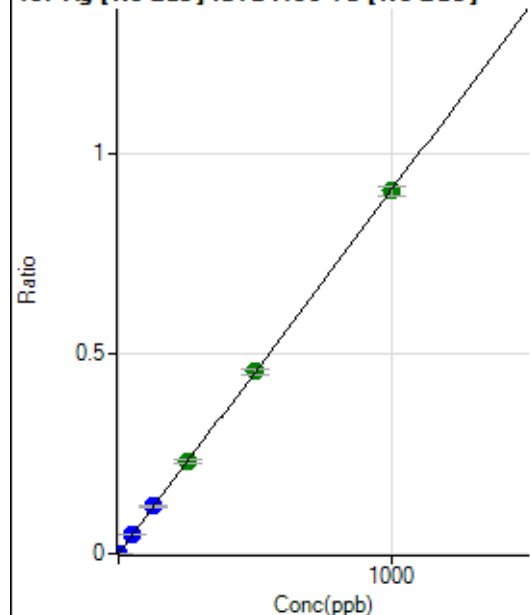
$$DL = 3.871$$

$$BEC = 22.53$$

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	91.67	0.0000	P	19.7
2	☐	1.000	0.983	6618.43	0.0009	P	2.9
3	☐	50.000	52.248	353306.58	0.0475	P	1.2
4	☐	125.000	130.484	875724.01	0.1187	P	2.2
5	☐	250.000	254.430	1735806.29	0.2314	A	2.9
6	☐	500.000	500.356	3466924.93	0.4550	A	2.9
7	☐	1000.000	997.916	6962075.50	0.9074	A	2.6
8	☐			3461.65	0.0005	P	8.6

$$y = 9.0925\text{E-}004 * x + 1.2808\text{E-}005$$

$$R = 1.0000$$

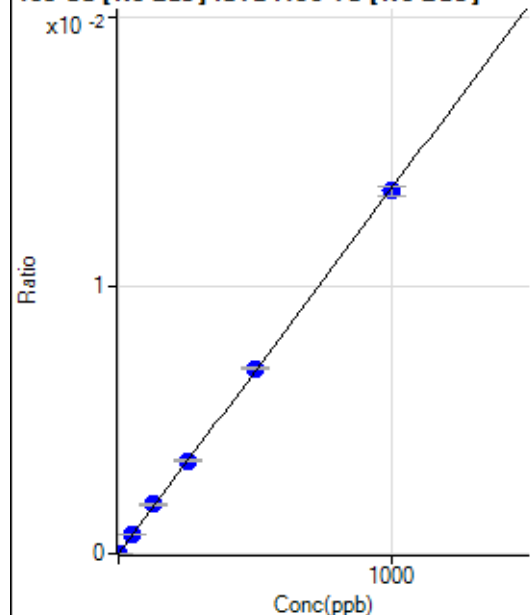
$$DL = 0.008308$$

$$BEC = 0.01409$$

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	12.50	0.0000	P	33.5
2	☐	1.000	1.144	126.39	0.0000	P	16.4
3	☐	50.000	54.567	5542.85	0.0007	P	1.8
4	☐	125.000	134.972	13594.37	0.0018	P	2.1
5	☐	250.000	254.753	26073.49	0.0035	P	1.2
6	☐	500.000	507.636	52739.64	0.0069	P	1.3
7	☐	1000.000	993.519	103906.18	0.0135	P	2.8
8	☐			91.67	0.0000	P	29.3

$$y = 1.3630\text{E-}005 * x + 1.7454\text{E-}006$$

$$R = 0.9999$$

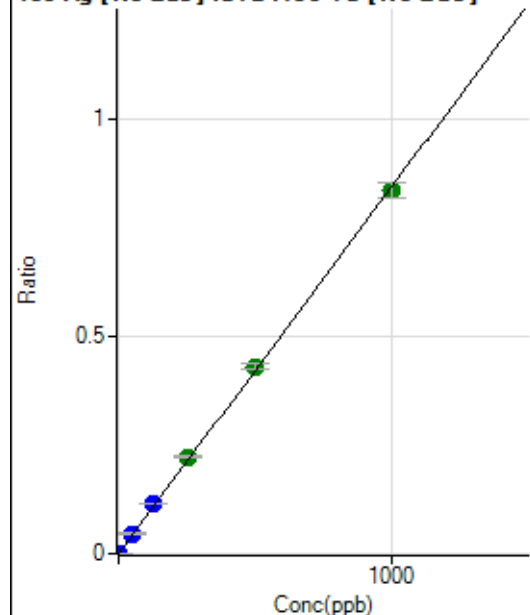
$$DL = 0.1286$$

$$BEC = 0.1281$$

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	69.44	0.0000	P	37.1
2	☐	1.000	1.027	6387.76	0.0009	P	4.1
3	☐	50.000	54.482	341381.93	0.0459	P	2.3
4	☐	125.000	135.749	844406.03	0.1144	P	0.8
5	☐	250.000	262.896	1662391.41	0.2215	A	1.9
6	☐	500.000	510.709	3279290.57	0.4303	A	2.5
7	☐	1000.000	989.854	6398116.81	0.8341	A	4.3
8	☐			3317.16	0.0004	P	3.2

$$y = 8.4261\text{E-}004 * x + 9.6506\text{E-}006$$

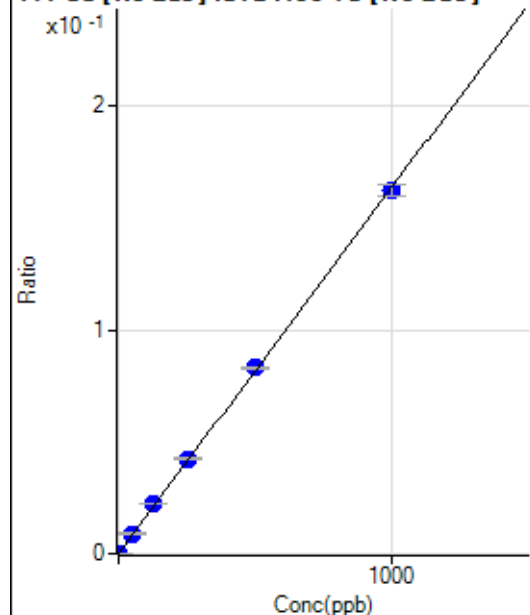
$$R = 0.9998$$

$$DL = 0.01274$$

$$BEC = 0.01145$$

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	325.18	0.0000	P	4.9
2	☐	1.000	1.006	1531.10	0.0002	P	2.6
3	☐	50.000	54.744	66835.87	0.0090	P	1.4
4	☐	125.000	136.484	164912.03	0.0223	P	1.9
5	☐	250.000	259.603	318635.95	0.0425	P	2.1
6	☐	500.000	508.470	633448.00	0.0831	P	0.7
7	☐	1000.000	991.692	1243471.11	0.1621	P	3.1
8	☐			763.67	0.0001	P	3.4

$$y = 1.6340\text{E-}004 * x + 4.5325\text{E-}005$$

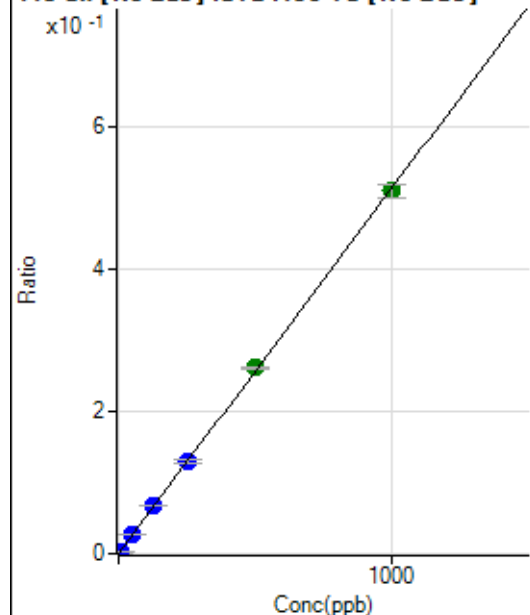
$$R = 0.9999$$

$$DL = 0.04113$$

$$BEC = 0.2774$$

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	672.26	0.0001	P	3.1
2	☐	5.000	4.892	19016.49	0.0026	P	2.9
3	☐	50.000	52.559	201227.92	0.0271	P	2.9
4	☐	125.000	131.236	497798.14	0.0675	P	1.6
5	☐	250.000	252.470	972989.54	0.1297	P	2.7
6	☐	500.000	509.095	1991900.07	0.2614	A	1.2
7	☐	1000.000	993.928	3914335.81	0.5102	A	3.4
8	☐			4795.41	0.0006	P	3.1

$$y = 5.1326\text{E-}004 * x + 9.3787\text{E-}005$$

$$R = 0.9999$$

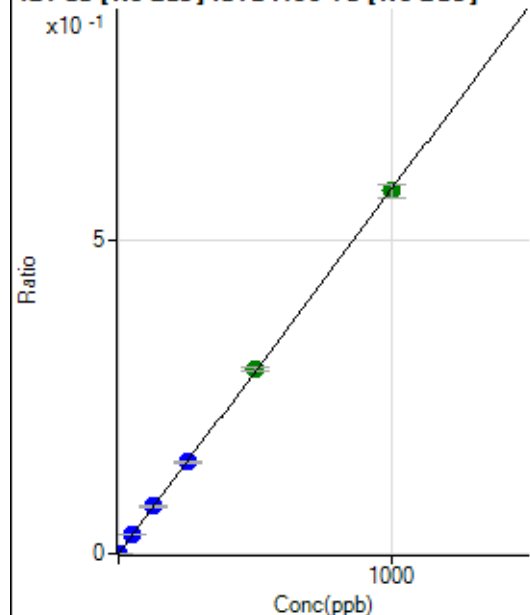
$$DL = 0.01716$$

$$BEC = 0.1827$$

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	22.22	0.0000	P	56.6
2	☐	2.000	1.936	8238.84	0.0011	P	1.0
3	☐	50.000	51.933	224456.43	0.0302	P	2.0
4	☐	125.000	129.625	556039.13	0.0754	P	2.7
5	☐	250.000	252.246	1100288.10	0.1466	P	2.3
6	☐	500.000	505.888	2240774.38	0.2941	A	1.7
7	☐	1000.000	995.820	4440491.33	0.5789	A	3.5
8	☐			2430.84	0.0003	P	12.1

$$y = 5.8128\text{E-}004 * x + 3.0814\text{E-}006$$

$$R = 1.0000$$

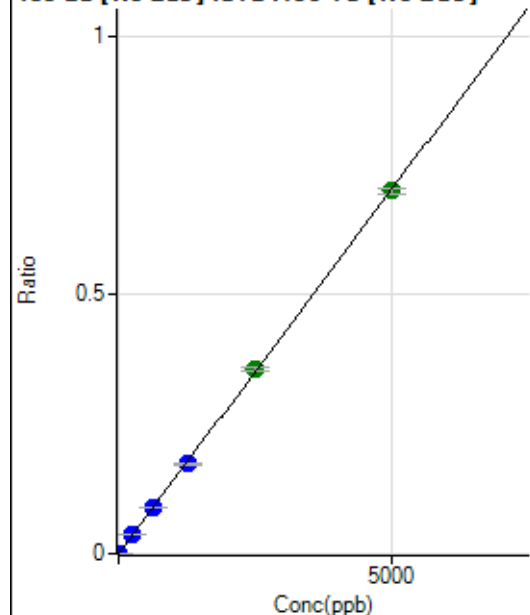
$$DL = 0.009008$$

$$BEC = 0.005301$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	1.8
2	☐	10.000	9.136	9389.63	0.0013	P	2.4
3	☐	250.000	252.149	263371.89	0.0354	P	0.6
4	☐	625.000	634.293	657668.11	0.0891	P	1.6
5	☐	1250.000	1234.715	1301581.15	0.1735	P	2.4
6	☐	2500.000	2538.546	2717610.41	0.3566	A	1.6
7	☐	5000.000	4983.281	5372238.57	0.7001	A	1.6
8	☐			3103.23	0.0004	P	2.7

$$y = 1.4049\text{E-}004 * x + 2.3254\text{E-}006$$

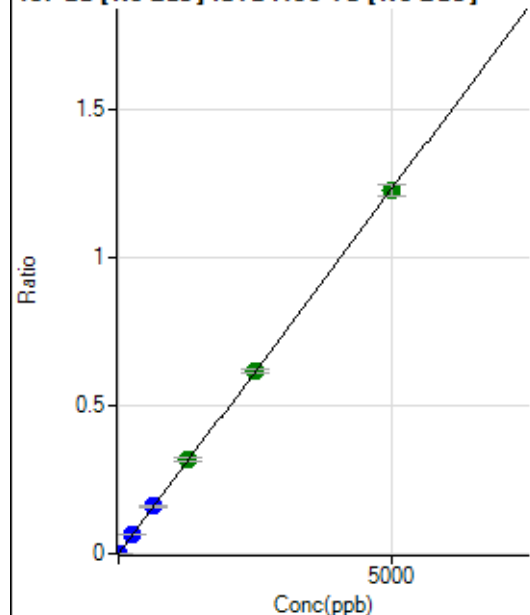
$$R = 0.9999$$

$$DL = 0.0009123$$

$$BEC = 0.01655$$

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	8.33	0.0000	P	99.2
2	☐	10.000	9.362	16802.52	0.0023	P	0.9
3	☐	250.000	254.682	465088.46	0.0626	P	2.6
4	☐	625.000	647.093	1172942.41	0.1589	P	2.3
5	☐	1250.000	1295.053	2387478.63	0.3181	A	3.5
6	☐	2500.000	2512.408	4702529.57	0.6171	A	2.5
7	☐	5000.000	4979.538	9384912.36	1.2231	A	3.0
8	☐			5203.92	0.0007	P	2.0

$$y = 2.4563E-004 * x + 1.1659E-006$$

$$R = 0.9999$$

$$DL = 0.01412$$

$$BEC = 0.004747$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	0.0
2	☐			2.22		P	173.
3	☐			22.22		P	148.
4	☐			44.44		P	22.9
5	☐			124.45		P	35.7
6	☐			191.12		P	17.9
7	☐			362.24		P	8.3
8	☐			35.56		P	28.6

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			2.22		P	86.6
4	☐			2.22		P	173.
5	☐			10.00		P	88.2
6	☐			12.22		P	56.8
7	☐			33.33		P	36.1
8	☐			15.56		P	12.4

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			8.33		P	100.
3	☐			25.00		P	57.7
4	☐			47.22		P	27.0
5	☐			69.44		P	27.7
6	☐			177.78		P	18.9
7	☐			319.46		P	11.8
8	☐			1097.30		P	7.5

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			2.22		P	173.
3	☐			6.67		P	50.0
4	☐			14.45		P	26.7
5	☐			32.22		P	15.8
6	☐			52.22		P	42.5
7	☐			112.22		P	4.5
8	☐			417.79		P	11.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.45		P	10.8
2	☐			61.11		P	20.8
3	☐			61.11		P	20.8
4	☐			100.00		P	38.2
5	☐			127.78		P	16.4
6	☐			191.68		P	19.9
7	☐			244.46		P	8.6
8	☐			1094.52		P	2.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			80.00		P	4.2
2	☐			93.33		P	7.1
3	☐			92.22		P	27.6
4	☐			103.33		P	11.6
5	☐			124.45		P	10.8
6	☐			135.56		P	11.4
7	☐			175.56		P	12.4
8	☐			552.24		P	4.7

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.34		P	43.3
2	☐			55.56		P	60.6
3	☐			50.00		P	33.3
4	☐			47.22		P	36.7
5	☐			36.11		P	26.7
6	☐			41.67		P	20.0
7	☐			72.22		P	17.6
8	☐			86.12		P	5.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.22		P	56.8
2	☐			8.89		P	108.
3	☐			11.11		P	62.5
4	☐			13.33		P	25.0
5	☐			13.33		P	25.0
6	☐			15.56		P	12.4
7	☐			17.78		P	65.8
8	☐			36.67		P	32.8

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63.89		P	32.8
2	☐			36.11		P	74.2
3	☐			61.12		P	34.3
4	☐			52.78		P	50.8
5	☐			83.34		P	36.1
6	☐			75.00		P	29.4
7	☐			119.45		P	14.5
8	☐			333.35		P	22.2

172 Yb [He] No available calibration points

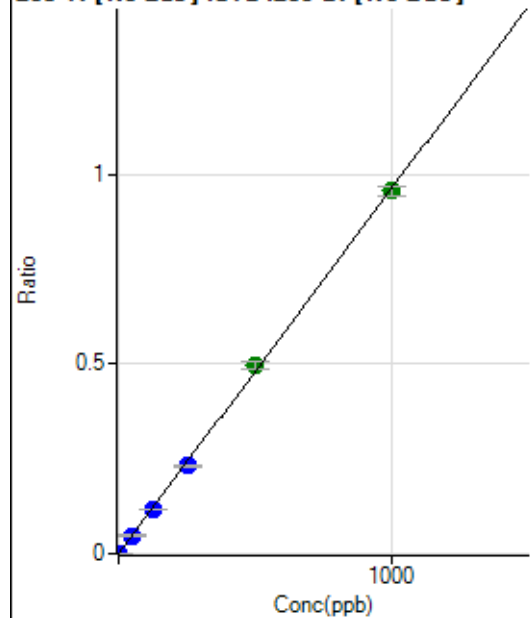
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	33.3
2	☐			16.67		P	33.3
3	☐			14.82		P	21.7
4	☐			22.22		P	50.0
5	☐			29.63		P	21.7
6	☐			20.37		P	87.7
7	☐			68.52		P	32.8
8	☐			177.78		P	3.1

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1066.74		P	6.2
2	☐			1055.62		P	10.2
3	☐			2075.23		P	1.8
4	☐			3364.41		P	1.7
5	☐			5509.68		P	3.1
6	☐			10301.50		P	1.3
7	☐			19871.13		P	2.8
8	☐			1416.78		P	3.1

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6749.99		P	3.4
2	☐			6599.93		P	3.2
3	☐			7176.19		P	4.7
4	☐			7548.56		P	2.7
5	☐			8725.27		P	1.8
6	☐			10667.44		P	2.6
7	☐			14652.82		P	0.2
8	☐			7550.45		P	3.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	75.00	0.0000	P	10.9
2	☐	1.000	0.907	3972.93	0.0009	P	2.8
3	☐	50.000	48.761	213661.04	0.0470	P	6.1
4	☐	125.000	120.832	529458.66	0.1164	P	3.1
5	☐	250.000	242.150	1064338.88	0.2332	P	2.0
6	☐	500.000	516.564	2254711.94	0.4974	A	4.0
7	☐	1000.000	994.263	4431369.98	0.9574	A	2.7
8	☐			1091.74	0.0003	P	3.6

$$y = 9.6287E-004 * x + 1.7048E-005$$

$$R = 0.9998$$

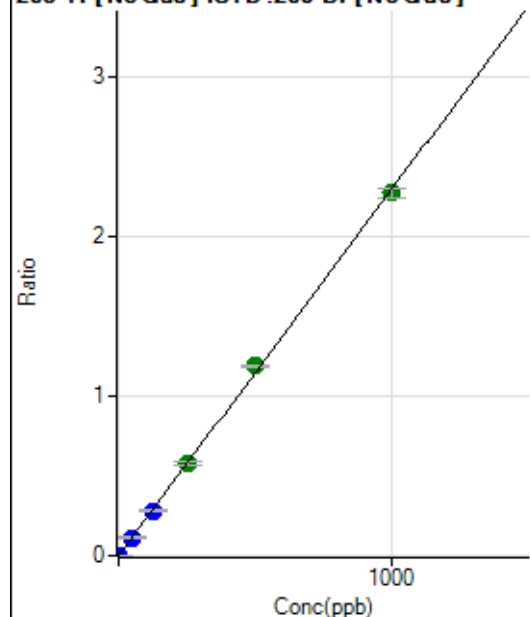
$$DL = 0.005767$$

$$BEC = 0.0177$$

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	183.34	0.0000	P	4.0
2	☐	1.000	0.903	9409.27	0.0021	P	7.3
3	☐	50.000	49.318	514320.01	0.1130	P	4.4
4	☐	125.000	122.664	1278822.89	0.2810	P	2.5
5	☐	250.000	252.522	2639807.83	0.5785	A	3.8
6	☐	500.000	517.528	5376095.52	1.1855	A	1.6
7	☐	1000.000	990.932	10505651.62	2.2699	A	2.7
8	☐			2503.09	0.0006	P	7.2

$$y = 0.0023 * x + 4.1671E-005$$

$$R = 0.9998$$

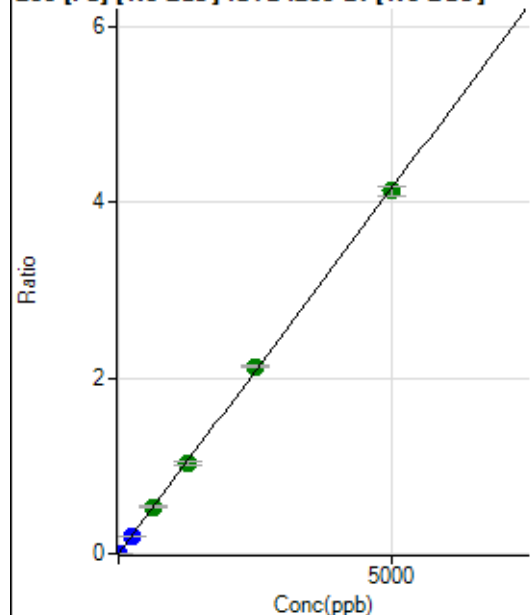
$$DL = 0.002192$$

$$BEC = 0.01819$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	535.21	0.0001	P	18.7
2	☐	1.000	0.833	3630.21	0.0008	P	10.2
3	☐	250.000	241.625	915307.99	0.2010	P	2.9
4	☐	625.000	637.555	2411499.85	0.5302	A	5.1
5	☐	1250.000	1244.140	4721705.02	1.0346	A	3.6
6	☐	2500.000	2566.161	9677568.62	2.1338	A	0.3
7	☐	5000.000	4967.234	19116328.43	4.1301	A	2.7
8	☐			4713.91	0.0012	P	2.8

$$y = 8.3145E-004 * x + 1.2177E-004$$

$$R = 0.9999$$

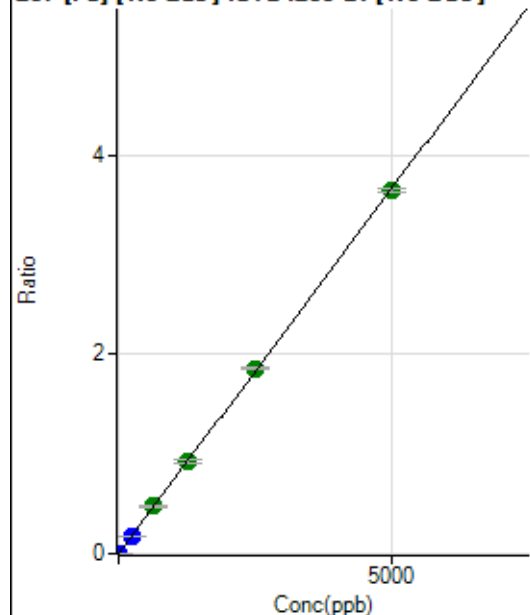
$$DL = 0.08196$$

$$BEC = 0.1465$$

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	455.57	0.0001	P	7.7
2	☐	1.000	0.901	3404.22	0.0008	P	2.6
3	☐	250.000	241.351	804171.05	0.1767	P	3.7
4	☐	625.000	650.151	2163595.77	0.4757	A	5.0
5	☐	1250.000	1267.887	4232731.78	0.9276	A	4.8
6	☐	2500.000	2541.409	8430116.62	1.8592	A	1.7
7	☐	5000.000	4972.112	16839380.12	3.6374	A	1.0
8	☐			3883.98	0.0010	P	9.7

$$y = 7.3154\text{E-}004 * x + 1.0352\text{E-}004$$

$$R = 0.9999$$

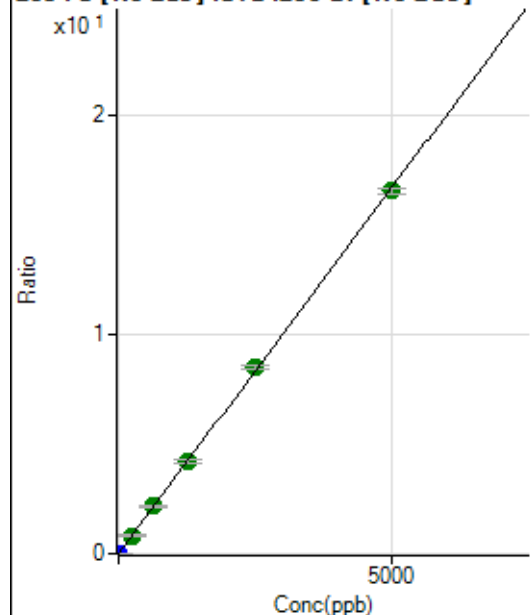
$$DL = 0.03261$$

$$BEC = 0.1415$$

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	2153.82	0.0005	P	8.1
2	☐	1.000	0.874	15170.49	0.0034	P	4.5
3	☐	250.000	248.849	3776115.04	0.8294	A	3.2
4	☐	625.000	645.664	9785286.13	2.1513	A	4.4
5	☐	1250.000	1271.014	19323010.53	4.2344	A	4.0
6	☐	2500.000	2559.973	38664454.45	8.5280	A	2.1
7	☐	5000.000	4962.234	76517347.88	16.5302	A	1.9
8	☐			18084.89	0.0045	P	5.4

$$y = 0.0033 * x + 4.8972\text{E-}004$$

$$R = 0.9999$$

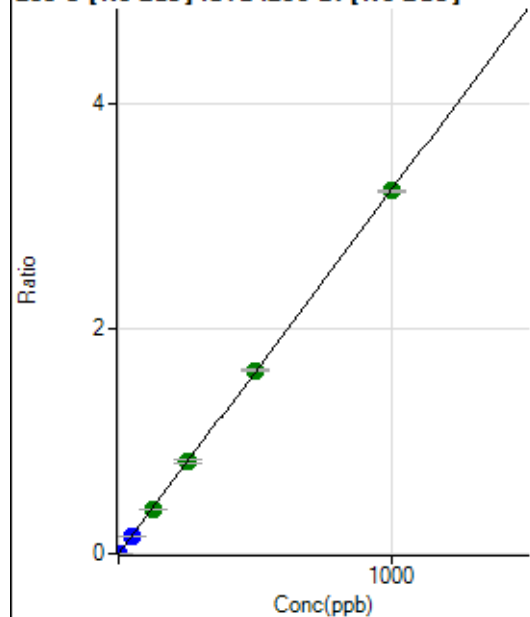
$$DL = 0.03585$$

$$BEC = 0.147$$

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	13.89	0.0000	P	91.9
2	☐	1.000	0.869	12523.18	0.0028	P	1.9
3	☐	50.000	46.836	687355.76	0.1511	P	6.1
4	☐	125.000	121.415	1783174.45	0.3917	A	0.8
5	☐	250.000	252.349	3715076.95	0.8141	A	4.2
6	☐	500.000	504.789	7385331.76	1.6285	A	0.9
7	☐	1000.000	997.625	14900789.92	3.2183	A	0.4
8	☐			1158.42	0.0003	P	13.7

$$y = 0.0032 * x + 3.1725E-006$$

$$R = 1.0000$$

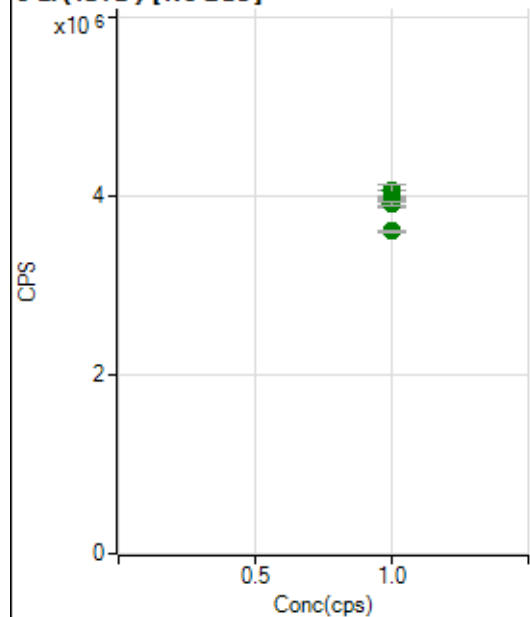
$$DL = 0.002712$$

$$BEC = 0.0009834$$

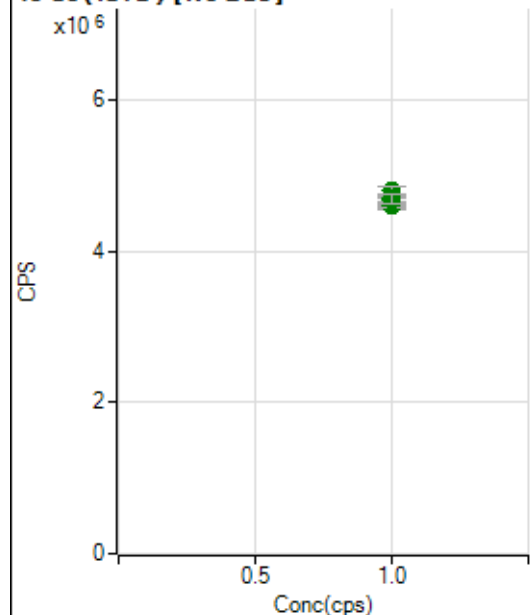
Weight: <None>

Min Conc: 0

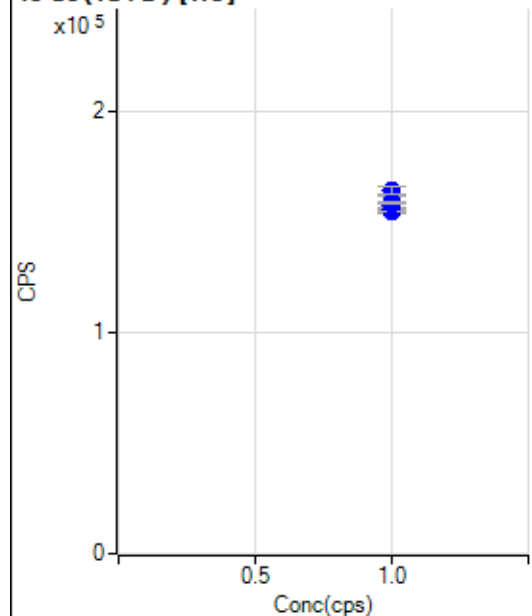
6 Li (ISTD) [No Gas]



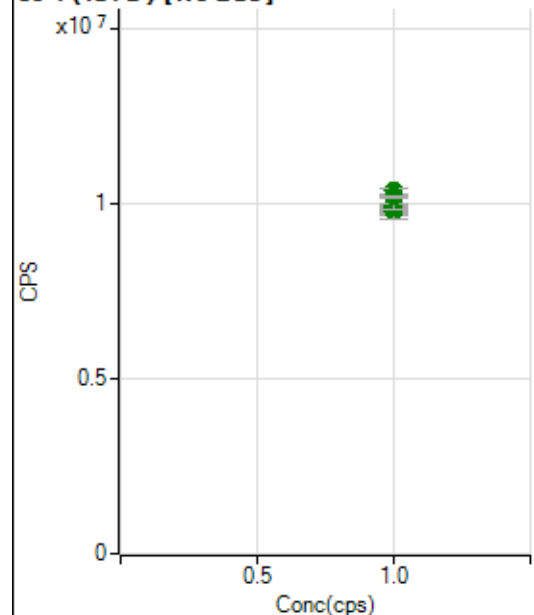
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3911703.83		A	2.6
2	☐	1.000		3990768.66		A	3.1
3	☐	1.000		4053939.75		A	3.1
4	☐	1.000		3934427.97		A	1.9
5	☐	1.000		3917539.61		A	1.1
6	☐	1.000		3943894.54		A	0.9
7	☐	1.000		3913289.83		A	1.1
8	☐	1.000		3600720.85		A	1.1

45 Sc (ISTD) [No Gas]

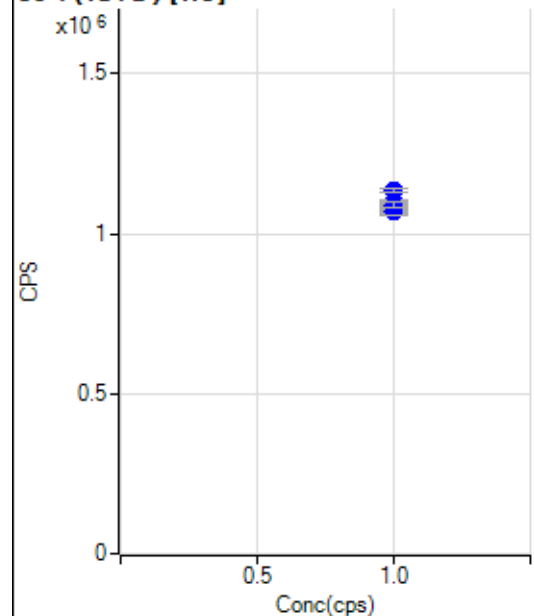
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4625733.09		A	3.1
2	☐	1.000		4653330.03		A	0.1
3	☐	1.000		4668174.03		A	2.7
4	☐	1.000		4689502.12		A	2.0
5	☐	1.000		4611581.43		A	1.9
6	☐	1.000		4679752.71		A	1.1
7	☐	1.000		4795487.57		A	2.0
8	☐	1.000		4694620.14		A	2.9

45 Sc (ISTD) [He]

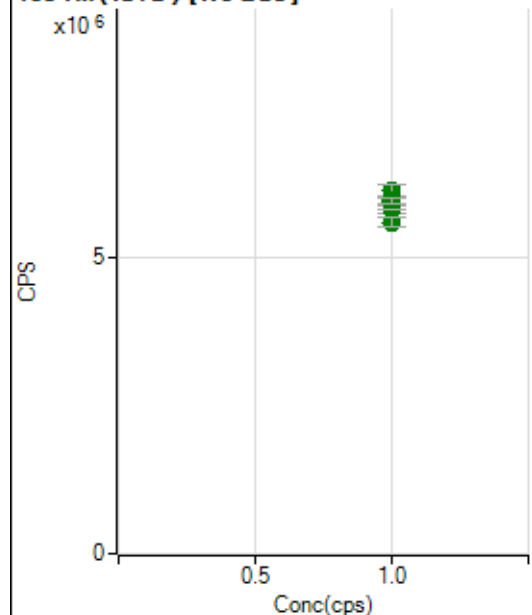
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		156290.25		P	0.5
2	☐	1.000		156862.52		P	1.2
3	☐	1.000		161792.91		P	0.1
4	☐	1.000		157175.53		P	0.9
5	☐	1.000		154446.54		P	0.9
6	☐	1.000		155111.20		P	1.0
7	☐	1.000		158078.45		P	0.6
8	☐	1.000		163762.50		P	2.2

89 Y (ISTD) [No Gas]

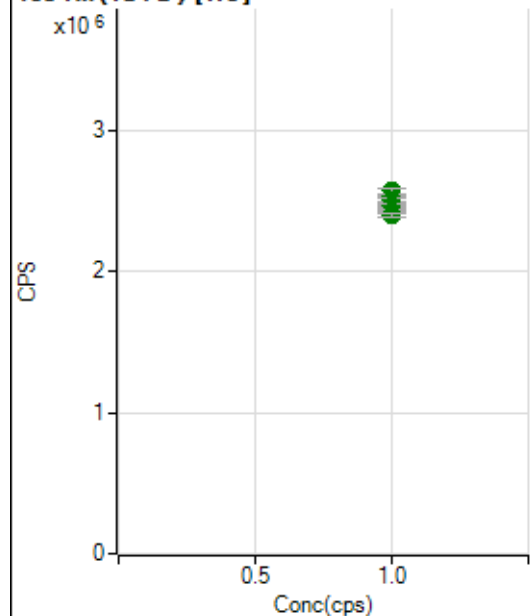
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9770804.93		A	0.8
2	☐	1.000		9767093.47		A	1.7
3	☐	1.000		9872157.01		A	2.3
4	☐	1.000		9771852.01		A	3.9
5	☐	1.000		9974462.91		A	1.3
6	☐	1.000		9923679.92		A	1.8
7	☐	1.000		10378428.87		A	1.5
8	☐	1.000		10205625.61		A	0.9

89 Y (ISTD) [He]

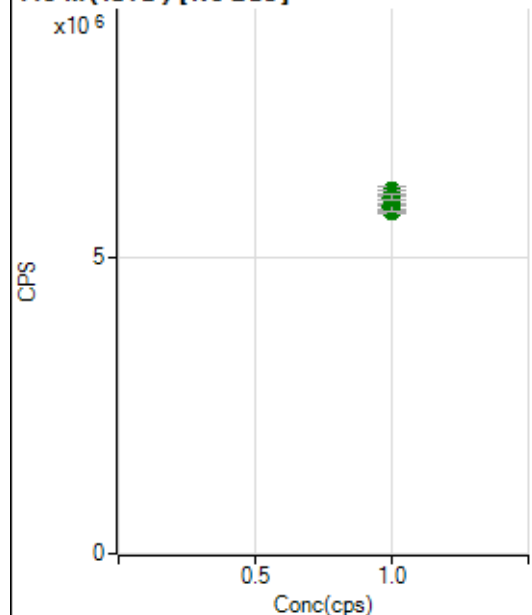
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1079215.73		P	0.4
2	☐	1.000		1080002.43		P	1.6
3	☐	1.000		1101050.31		P	1.0
4	☐	1.000		1073497.19		P	1.2
5	☐	1.000		1070687.06		P	1.2
6	☐	1.000		1067819.32		P	1.8
7	☐	1.000		1090092.01		P	1.5
8	☐	1.000		1133982.61		P	1.2

103 Rh (ISTD) [No Gas]

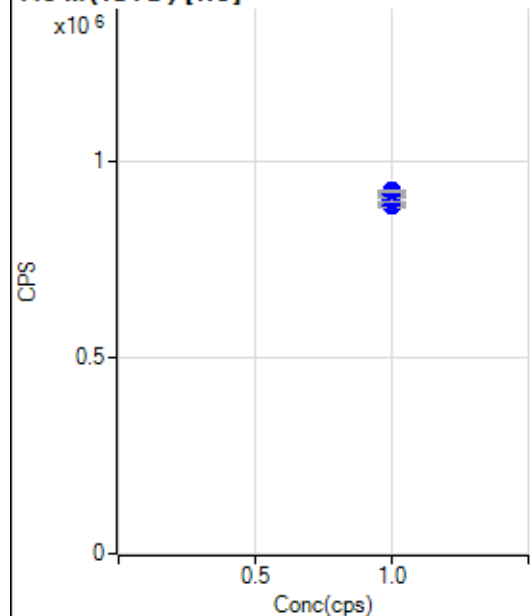
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5843992.19		A	1.8
2	☐	1.000		5913048.57		A	2.4
3	☐	1.000		6107055.47		A	3.2
4	☐	1.000		5882183.25		A	4.7
5	☐	1.000		5881806.64		A	0.8
6	☐	1.000		5796650.21		A	0.1
7	☐	1.000		5942019.84		A	1.9
8	☐	1.000		5578247.56		A	3.1

103 Rh (ISTD) [He]

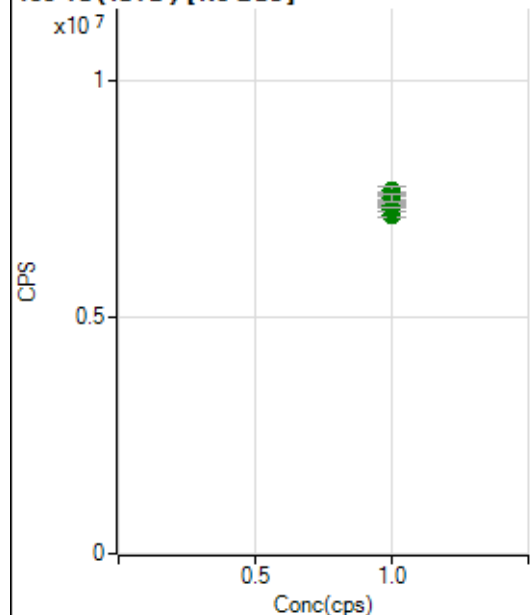
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2524085.33		A	0.7
2	☐	1.000		2477282.83		A	0.5
3	☐	1.000		2532661.72		A	4.4
4	☐	1.000		2570992.86		A	1.6
5	☐	1.000		2506945.85		A	0.7
6	☐	1.000		2466858.07		A	0.8
7	☐	1.000		2431942.10		A	0.7
8	☐	1.000		2397032.48		A	1.2

115 In (ISTD) [No Gas]

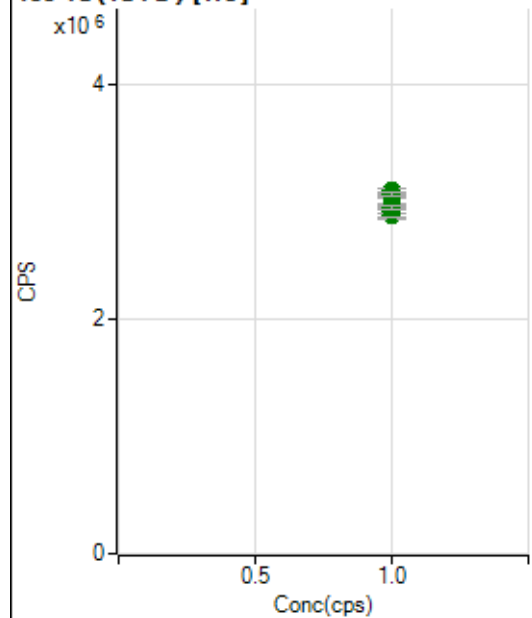
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5854327.46		A	1.1
2	☐	1.000		5800260.02		A	1.1
3	☐	1.000		6137837.11		A	2.0
4	☐	1.000		5915798.25		A	5.1
5	☐	1.000		5989347.26		A	2.2
6	☐	1.000		5893597.39		A	3.2
7	☐	1.000		6096726.70		A	1.3
8	☐	1.000		6034727.49		A	1.1

115 In (ISTD) [He]

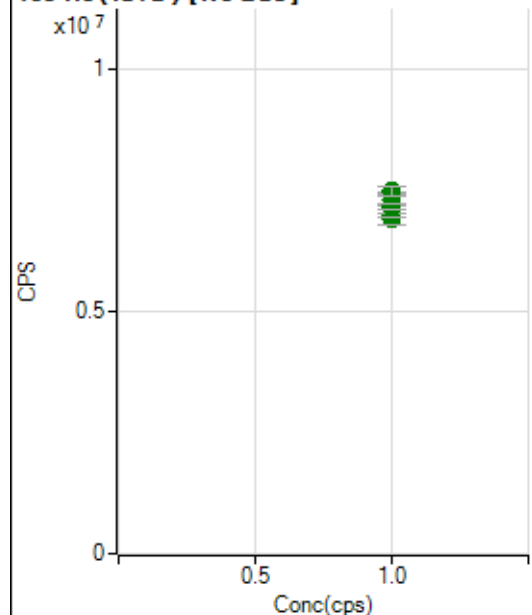
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		911224.64		P	0.3
2	☐	1.000		912386.52		P	0.7
3	☐	1.000		924247.62		P	1.1
4	☐	1.000		920601.42		P	1.7
5	☐	1.000		895243.93		P	1.1
6	☐	1.000		890300.51		P	1.2
7	☐	1.000		904278.11		P	0.7
8	☐	1.000		927033.47		P	0.6

159 Tb (ISTD) [No Gas]

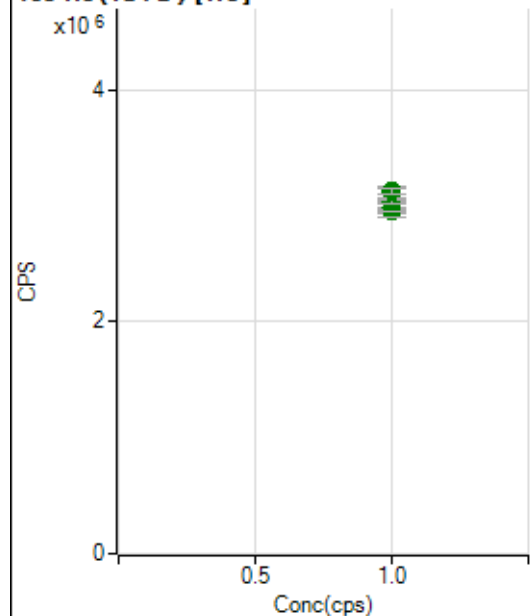
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7170212.05		A	1.8
2	☐	1.000		7302349.34		A	1.3
3	☐	1.000		7434649.82		A	1.1
4	☐	1.000		7381757.39		A	2.0
5	☐	1.000		7506605.38		A	2.7
6	☐	1.000		7620320.30		A	0.4
7	☐	1.000		7675328.15		A	2.3
8	☐	1.000		7541564.96		A	2.2

159 Tb (ISTD) [He]

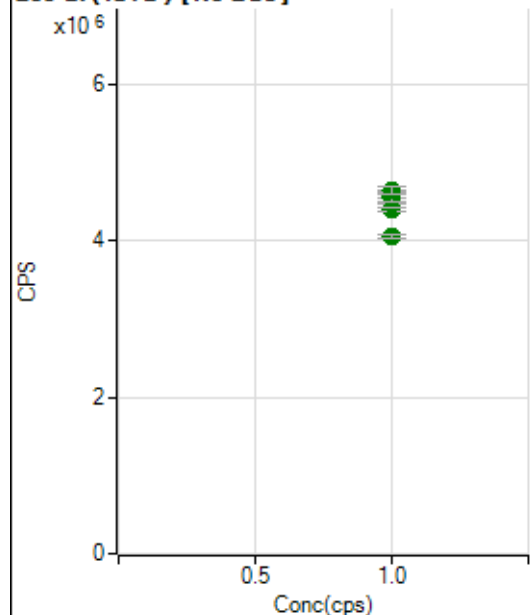
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2883418.91		A	1.5
2	☐	1.000		2920074.23		A	3.4
3	☐	1.000		3097693.56		A	1.2
4	☐	1.000		2965580.02		A	0.2
5	☐	1.000		2967599.51		A	1.0
6	☐	1.000		2958213.71		A	1.0
7	☐	1.000		3057011.41		A	1.4
8	☐	1.000		3074846.34		A	1.3

165 Ho (ISTD) [No Gas]

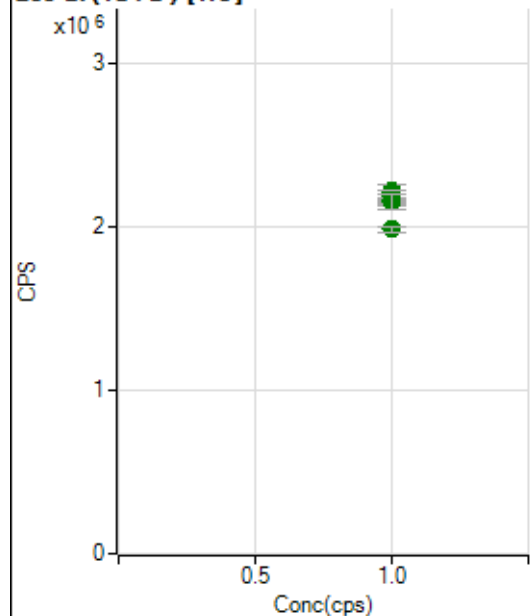
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6899921.38		A	3.1
2	☐	1.000		6961950.50		A	0.9
3	☐	1.000		7130064.66		A	1.4
4	☐	1.000		7153820.04		A	2.1
5	☐	1.000		7296406.41		A	2.3
6	☐	1.000		7426433.41		A	0.7
7	☐	1.000		7475264.49		A	2.8
8	☐	1.000		7463802.86		A	2.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2947348.32		A	0.9
2	☐	1.000		2978066.66		A	0.7
3	☐	1.000		3011346.27		A	1.9
4	☐	1.000		2943690.96		A	2.5
5	☐	1.000		2985350.58		A	2.2
6	☐	1.000		3033253.67		A	1.2
7	☐	1.000		3116277.31		A	3.2
8	☐	1.000		3126892.39		A	1.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4399094.41		A	0.8
2	☐	1.000		4462770.70		A	1.5
3	☐	1.000		4556415.53		A	3.9
4	☐	1.000		4553177.57		A	3.4
5	☐	1.000		4565373.44		A	1.6
6	☐	1.000		4535255.21		A	2.3
7	☐	1.000		4630072.61		A	2.1
8	☐	1.000		4042535.56		A	1.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2162875.58		A	2.7
2	☐	1.000		2179737.80		A	1.3
3	☐	1.000		2216458.73		A	3.9
4	☐	1.000		2205844.83		A	1.3
5	☐	1.000		2144980.84		A	1.9
6	☐	1.000		2160337.19		A	1.0
7	☐	1.000		2151964.45		A	4.1
8	☐	1.000		1980437.75		A	2.0

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8121522 MS.b

Acq. Date-Time 2022-12-15 08:42:57

Report Comment ---

Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		14961	149612.32			2.321	5.000
24		356614	3566136.29			0.930	5.000
25		48137	481366.42			2.093	5.000
26		54759	547585.75			2.810	5.000
59		65745	657445.72			2.518	5.000
113		6740	67399.04			2.202	5.000
115		84777	847774.49			2.081	5.000
206		18404	184036.15			1.601	5.000
207		16582	165816.75			2.309	5.000
208		39360	393604.94			2.406	5.000
220		1	5.40			50.884	

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

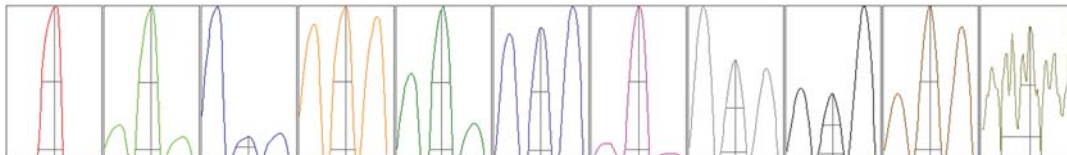
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	15335	15339	14720	14785	14628
24	358944	360809	352429	356027	354859
25	49117	49280	47407	47062	47818
26	56655	56107	53128	53735	54168
59	67211	67507	65873	64227	63905
113	6936	6862	6635	6607	6661
115	86318	86465	85271	82756	83077
206	18664	18699	18373	17978	18303
207	16851	16966	16219	16126	16746
208	40673	39611	38653	38248	39617

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	25982.82	9.05	8.90 - 9.10	
24	633183.66	24.00	23.90 - 24.10	
25	85904.20	25.00	24.90 - 25.10	
26	97587.66	26.00	25.90 - 26.10	
59	121063.98	58.95	58.90 - 59.10	
113	13120.53	113.00	112.90 - 113.10	
115	163119.35	115.05	114.90 - 115.10	
206	34642.86	206.00	205.90 - 206.10	
207	31415.18	207.00	206.90 - 207.10	
208	75156.09	208.00	207.90 - 208.10	
220	0.95	220.10	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.775	0.900	
24	0.60	0.782	0.900	
25	0.59	0.783	0.900	
26	0.60	0.778	0.900	
59	0.57	0.737	0.900	
113	0.54	0.731	0.900	
115	0.54	0.763	0.900	
206	0.55	0.814	0.900	
207	0.55	0.813	0.900	
208	0.54	0.815	0.900	
220	0.45	1.217		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 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	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.7 V	Deflect	16.2 V
Extract 2	-185.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-90 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	180 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	1.1 mm	Torch V	-0.9 mm
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EM

Discriminator	4.5 mV	Analog HV	2296 V	Pulse HV	1606 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		13679	136792.33			0.453	
89		25821	258214.18			1.063	
205		13305	133045.89			1.692	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	13708	13719	13691	13708	13570
89	25619	26217	25909	25849	25512
205	13449	13623	13158	13080	13213

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.7 V	Deflect	4.2 V
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US EPA Tune Check Report

Extract 2	-185.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-90 V	Cell Exit	-70 V		

Cell Parameters

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

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	1.1 mm	Torch V	-0.9 mm
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EM

Discriminator	4.5 mV	Analog HV	2296 V	Pulse HV	1606 V
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