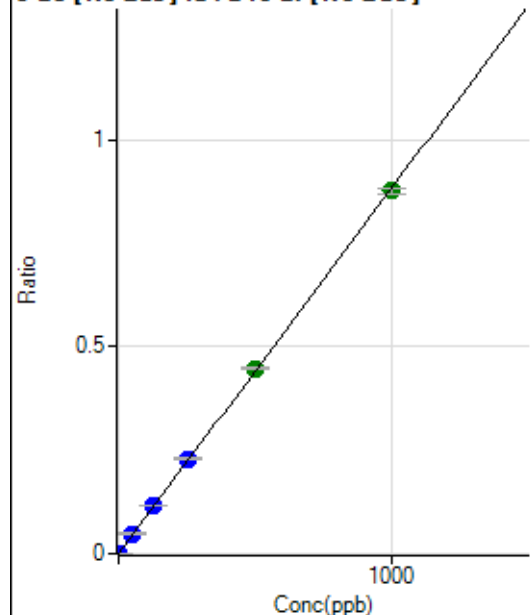


Calibration for 003CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7032423MS.b\
 Analysis File: P7032423MS.batch.bin
 DA Date-Time: 2023-03-24 19:23:27
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-03-24 15:48:13
2	006CALS.d	S02	2023-03-24 15:54:44
3	007CALS.d	S03	2023-03-24 15:57:58
4	008CALS.d	S04	2023-03-24 16:00:58
5	009CALS.d	S05	2023-03-24 16:03:48
6	010CALS.d	S06	2023-03-24 16:06:35
7	011CALS.d	S07	2023-03-24 16:09:21
8	012CALS.d	S08	2023-03-24 16:12:09

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	71.11	0.0000	P	21.0
2	☐	1.000	1.075	2588.02	0.0010	P	5.0
3	☐	50.000	55.236	129666.37	0.0487	P	1.4
4	☐	125.000	132.088	309790.88	0.1165	P	1.5
5	☐	250.000	259.339	601927.70	0.2287	P	2.5
6	☐	500.000	506.532	1148802.89	0.4467	A	0.9
7	☐	1000.000	993.251	2220507.87	0.8758	A	1.9
8	☐			858.92	0.0004	P	16.8

$$y = 8.8177\text{E-}004 * x + 2.6993\text{E-}005$$

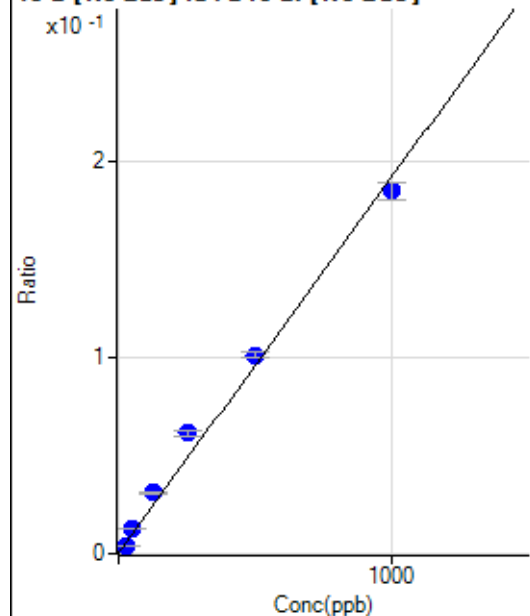
$$R = 0.9999$$

$$DL = 0.01928$$

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	665.58	0.0003	P	4.7
2	☐	25.000	17.991	9809.85	0.0037	P	4.9
3	☐	50.000	65.418	33957.19	0.0128	P	5.0
4	☐	125.000	160.290	82156.19	0.0309	P	5.4
5	☐	250.000	318.563	160953.67	0.0612	P	5.3
6	☐	500.000	527.481	260123.54	0.1011	P	2.9
7	☐	1000.000	964.112	468024.01	0.1846	P	4.6
8	☐			14590.37	0.0063	P	13.4

$$y = 1.9125\text{E-}004 * x + 2.5269\text{E-}004$$

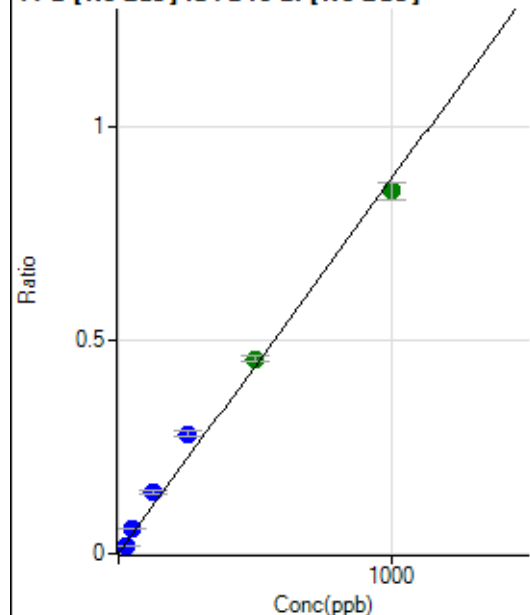
$$R = 0.9961$$

$$DL = 0.1873$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2889.18	0.0011	P	4.5
2	☐	25.000	17.722	44184.04	0.0166	P	3.4
3	☐	50.000	66.177	157294.27	0.0591	P	3.5
4	☐	125.000	161.144	378469.63	0.1424	P	5.9
5	☐	250.000	318.444	737466.15	0.2803	P	5.6
6	☐	500.000	519.593	1174766.51	0.4567	A	2.9
7	☐	1000.000	967.948	2154109.03	0.8498	A	4.8
8	☐			67838.19	0.0294	P	11.1

$$y = 8.7680E-004 * x + 0.0011$$

$$R = 0.9964$$

$$DL = 0.1707$$

Weight: <None>

Min Conc: 0

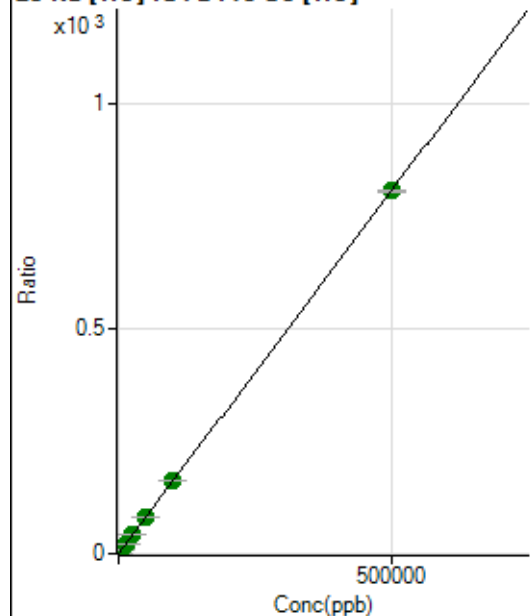
12 C [No Gas] No available calibration points



	R _{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	19973.03	0.0371	P	2.9
2	☐	500.000	500.168	455716.58	0.8448	P	0.8
3	☐	5000.000	5207.897	4389026.88	8.4478	A	0.8
4	☐	12500.000	12852.004	10488287.97	20.7930	A	0.1
5	☐	25000.000	25572.412	20571652.05	41.3365	A	2.0
6	☐	50000.000	50307.988	40069465.79	81.2845	A	0.9
7	☐	100000.00	100112.18	78845546.60	161.7182	A	1.1
8	☐	500000.00	499907.26	365069687.8	807.3872	A	0.6

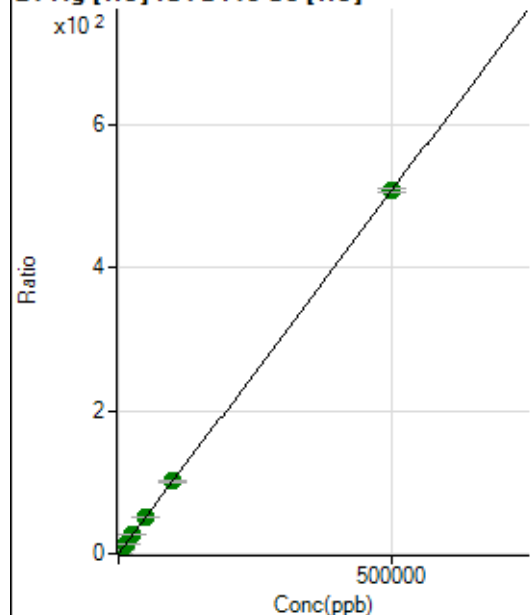
$$y = 0.0016 * x + 0.0371$$

$$R = 1.0000$$

$$DL = 2.027$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	681.13	0.0013	P	6.4
2	☐	500.000	496.872	272318.04	0.5048	P	0.4
3	☐	5000.000	5243.279	2761679.58	5.3154	A	0.5
4	☐	12500.000	13030.798	6661957.47	13.2081	A	0.9
5	☐	25000.000	25667.615	12947761.48	26.0155	A	1.2
6	☐	50000.000	50369.351	25165220.46	51.0509	A	1.3
7	☐	100000.00	99734.789	49283777.05	101.0831	A	1.1
8	☐	500000.00	499967.02	229115221.0	506.7208	A	1.1

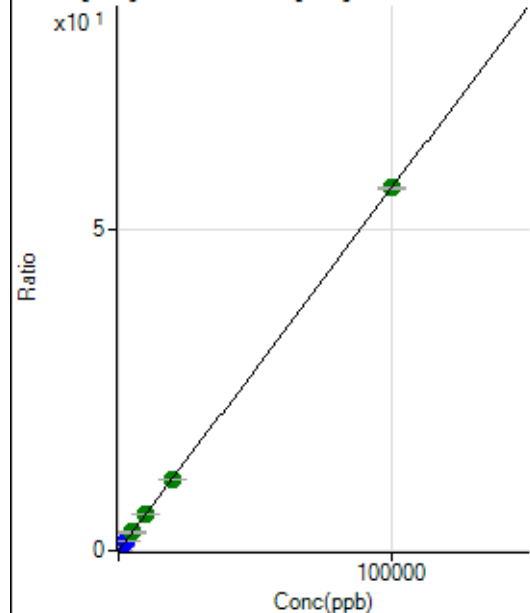
$$y = 0.0010 * x + 0.0013$$

$$R = 1.0000$$

$$DL = 0.2395$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	520.02	0.0010	P	5.6
2	☐	20.000	20.138	6669.29	0.0124	P	1.8
3	☐	1000.000	1087.656	320366.26	0.6166	P	1.0
4	☐	2500.000	2574.146	735401.81	1.4580	P	0.7
5	☐	5000.000	5055.532	1424587.64	2.8625	A	1.8
6	☐	10000.000	9935.251	2772638.40	5.6246	A	0.9
7	☐	20000.000	19745.490	5449642.07	11.1774	A	1.0
8	☐	100000.00	100051.87	25606896.01	56.6330	A	0.8

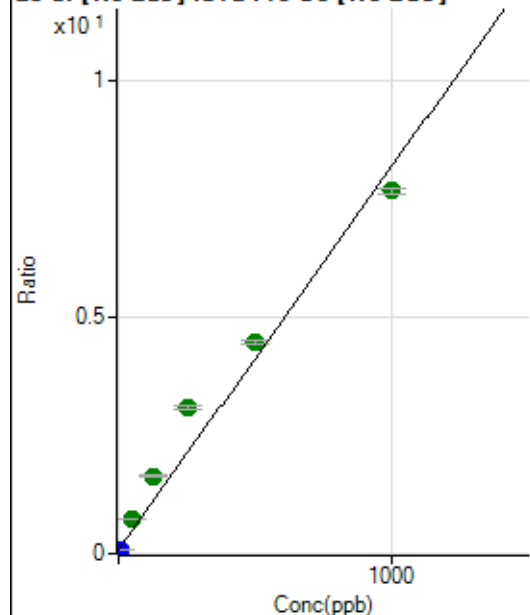
$$y = 5.6603E-004 * x + 9.6510E-004$$

$$R = 1.0000$$

$$DL = 0.2843$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	511450.56	0.0791	P	0.5
2	☐	10.000	1.745	599217.43	0.0932	P	0.2
3	☐	50.000	79.653	4602695.21	0.7246	A	3.2
4	☐	125.000	193.062	10059118.32	1.6437	A	2.5
5	☐	250.000	372.077	18574550.84	3.0944	A	2.6
6	☐	500.000	544.440	26729295.43	4.4913	A	1.9
7	☐	1000.000	937.353	44913574.89	7.6755	A	1.9
8	☐			1323701.53	0.2418	A	2.1

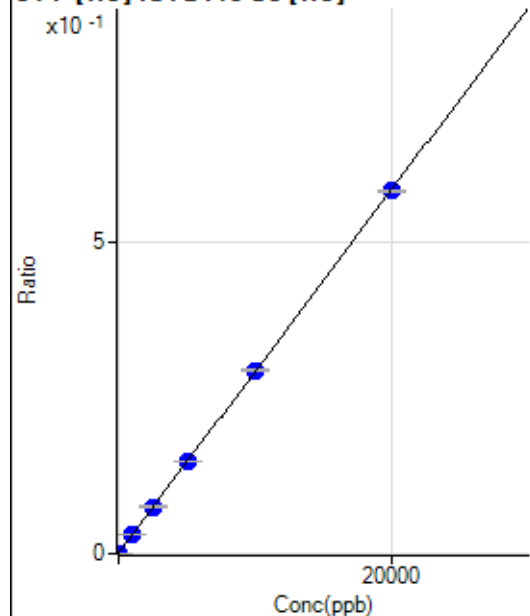
$$y = 0.0081 * x + 0.0791$$

$$R = 0.9876$$

$$DL = 0.1547$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-9.425	322.23	0.0006	P	2.8
2	☐	0.000	9.425	618.91	0.0011	P	6.1
3	☐	1000.000	1051.057	16374.41	0.0315	P	1.1
4	☐	2500.000	2552.715	37976.99	0.0753	P	2.0
5	☐	5000.000	5084.371	74218.66	0.1491	P	0.7
6	☐	10000.000	10063.433	145065.44	0.2943	P	1.1
7	☐	20000.000	19938.049	283853.65	0.5822	P	0.8
8	☐			412.23	0.0009	P	16.0

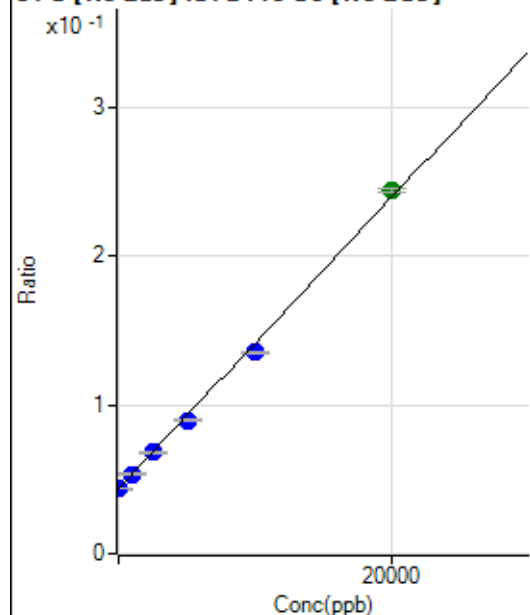
$$y = 2.9156E-005 * x + 8.7267E-004$$

$$R = 1.0000$$

$$DL = 4.441$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-36.809	281230.53	0.0435	P	1.3
2	☐	0.000	36.809	284121.65	0.0442	P	0.6
3	☐	1000.000	990.579	340194.09	0.0535	P	0.8
4	☐	2500.000	2460.880	415861.71	0.0679	P	1.2
5	☐	5000.000	4656.370	537048.84	0.0895	P	1.1
6	☐	10000.000	9324.106	804561.10	0.1352	P	0.6
7	☐	20000.000	20429.216	1427793.66	0.2440	A	1.2
8	☐			248188.65	0.0454	P	3.1

$$y = 9.7975E-006 * x + 0.0438$$

$$R = 0.9990$$

$$DL = 123$$

Weight: <None>

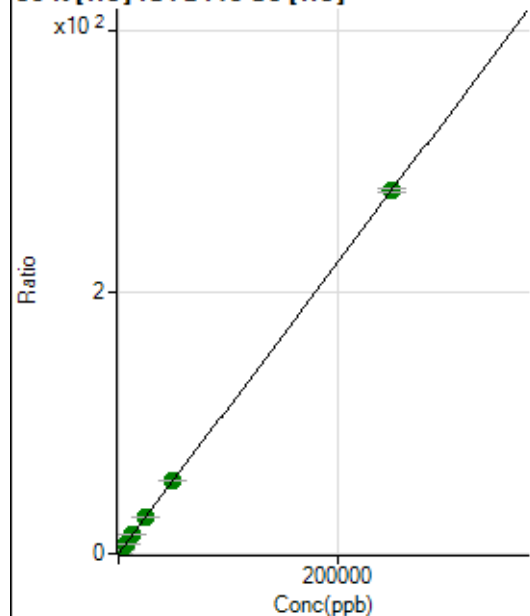
Min Conc: 0

35 Cl [No Gas] No available calibration points

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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	67838.10	0.1259	P	0.6
2	☐	500.000	522.212	380696.05	0.7058	P	0.5
3	☐	2500.000	2643.352	1590488.12	3.0612	A	1.1
4	☐	6250.000	6416.056	3657268.56	7.2506	A	0.2
5	☐	12500.000	12672.611	7066660.24	14.1981	A	0.8
6	☐	25000.000	25218.703	13866790.49	28.1298	A	0.7
7	☐	50000.000	50465.602	27383874.31	56.1651	A	1.1
8	☐	250000.00	249870.74	125515933.6	277.5935	A	1.0

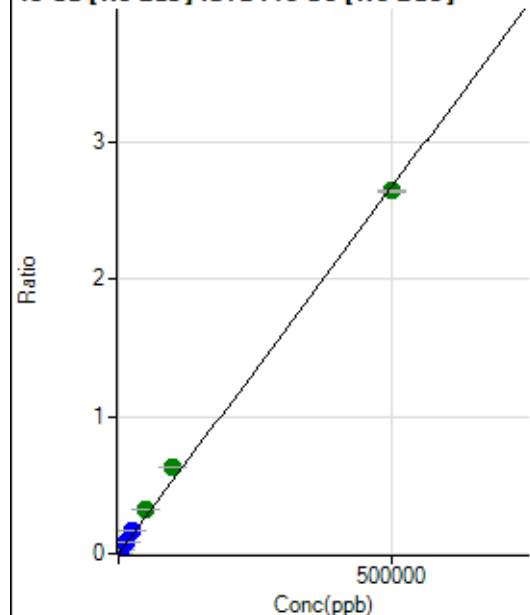
$$y = 0.0011 * x + 0.1259$$

$$R = 1.0000$$

$$DL = 2.013$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	235.56	0.0000	P	7.0
2	☐	500.000	537.295	18657.10	0.0029	P	0.9
3	☐	5000.000	6258.284	212281.22	0.0334	P	2.5
4	☐	12500.000	15404.722	503098.17	0.0822	P	1.2
5	☐	25000.000	30571.577	979054.52	0.1631	P	1.8
6	☐	50000.000	59451.454	1887369.23	0.3171	A	0.2
7	☐	100000.00	118114.98	3686670.85	0.6300	A	1.4
8	☐	500000.00	495068.04	14452389.23	2.6405	A	0.2

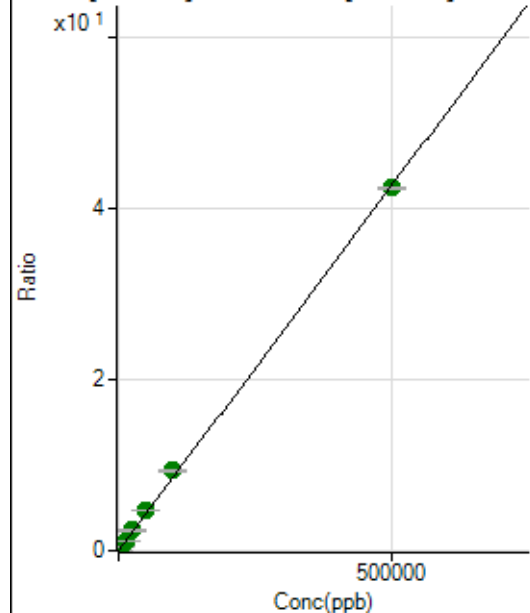
$$y = 5.3335\text{E-}006 * x + 3.6421\text{E-}005$$

$$R = 0.9992$$

$$DL = 1.44$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	16478.14	0.0025	P	0.7
2	☐	500.000	543.150	314112.59	0.0489	P	0.2
3	☐	5000.000	5771.438	3142546.06	0.4946	A	2.3
4	☐	12500.000	14159.329	7404477.74	1.2098	A	1.9
5	☐	25000.000	27877.825	14283759.51	2.3795	A	2.3
6	☐	50000.000	55553.408	28205666.80	4.7392	A	0.5
7	☐	100000.00	110142.08	54968469.18	9.3936	A	1.5
8	☐	500000.00	497223.11	232045692.1	42.3972	A	0.3

$$y = 8.5263\text{E-}005 * x + 0.0025$$

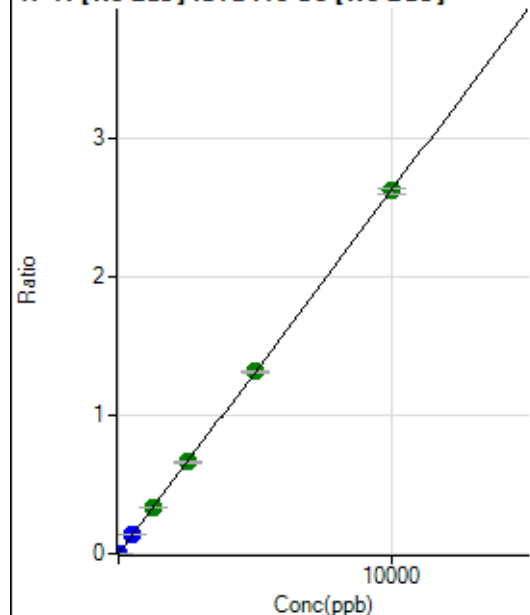
$$R = 0.9998$$

$$DL = 0.5876$$

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	130.01	0.0000	P	16.5
2	☐	5.000	4.968	8505.80	0.0013	P	1.6
3	☐	500.000	512.164	853349.79	0.1343	P	2.2
4	☐	1250.000	1264.214	2029093.70	0.3315	A	1.4
5	☐	2500.000	2533.706	3988480.88	0.6644	A	2.3
6	☐	5000.000	5013.729	7824471.55	1.3147	A	0.9
7	☐	10000.000	9982.324	15317718.66	2.6176	A	1.4
8	☐			2919.21	0.0005	P	20.1

$$y = 2.6222\text{E-}004 * x + 2.0106\text{E-}005$$

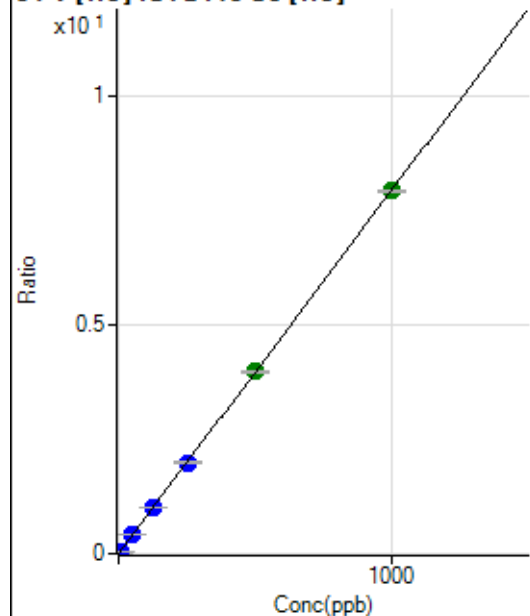
$$R = 1.0000$$

$$DL = 0.03789$$

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	21.11	0.0000	P	9.7
2	☐	5.000	5.053	21642.29	0.0401	P	0.7
3	☐	50.000	51.825	213625.80	0.4112	P	1.3
4	☐	125.000	126.795	507375.82	1.0059	P	0.7
5	☐	250.000	250.986	990977.08	1.9912	P	1.2
6	☐	500.000	500.971	1959236.25	3.9743	A	0.5
7	☐	1000.000	998.952	3864201.16	7.9249	A	0.7
8	☐			787.81	0.0017	P	4.2

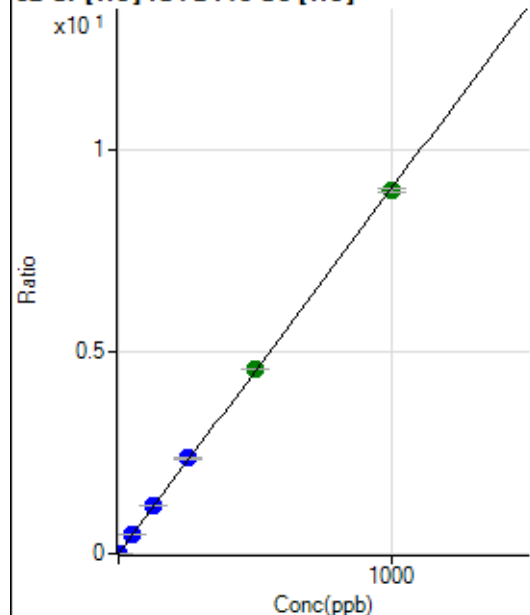
$$y = 0.0079 * x + 3.9184\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.001433$$

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	1591.21	0.0030	P	5.7
2	☐	2.000	2.020	11457.76	0.0212	P	1.8
3	☐	50.000	53.217	251903.69	0.4849	P	0.7
4	☐	125.000	131.839	603674.44	1.1968	P	0.4
5	☐	250.000	260.914	1177233.67	2.3656	P	2.1
6	☐	500.000	505.608	2258422.35	4.5814	A	0.9
7	☐	1000.000	993.452	4387552.96	8.9990	A	1.0
8	☐			29633.53	0.0655	P	1.3

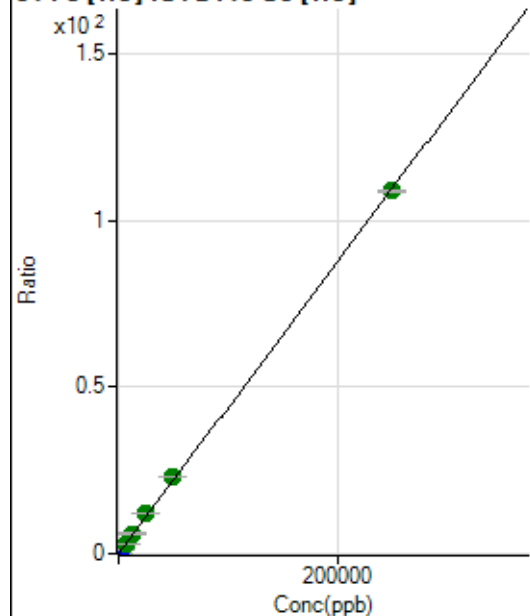
$$y = 0.0091 * x + 0.0030$$

$$R = 0.9999$$

$$DL = 0.05529$$

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	2790.29	0.0052	P	5.8
2	☐	50.000	56.787	16202.14	0.0300	P	1.1
3	☐	2500.000	2974.682	679285.53	1.3074	P	0.6
4	☐	6250.000	6942.912	1535602.65	3.0447	A	1.6
5	☐	12500.000	13745.463	2997036.97	6.0227	A	2.5
6	☐	25000.000	27201.098	5872887.27	11.9134	A	0.6
7	☐	50000.000	53326.413	11385977.05	23.3507	A	0.1
8	☐	250000.00	249030.26	49296663.71	109.0270	A	0.9

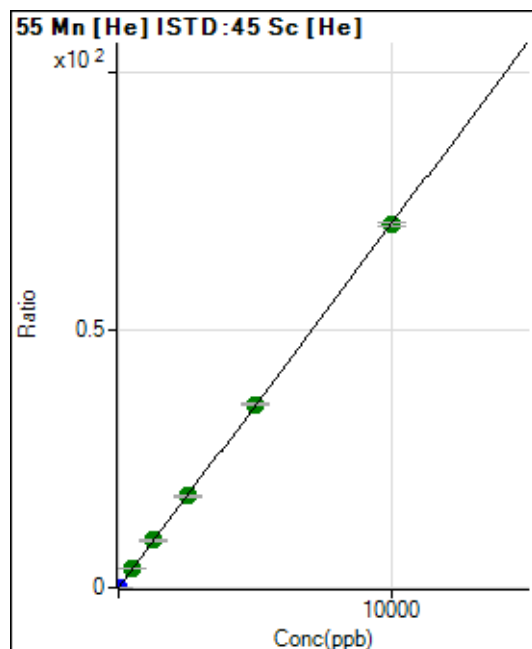
$$y = 4.3779E-004 * x + 0.0052$$

$$R = 0.9999$$

$$DL = 2.067$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	173.34	0.0003	P	10.3
2	☐	1.000	1.072	4255.08	0.0079	P	4.0
3	☐	500.000	526.128	1929836.48	3.7145	A	2.3
4	☐	1250.000	1294.939	4611016.15	9.1419	A	1.0
5	☐	2500.000	2530.906	8891319.73	17.8672	A	2.3
6	☐	5000.000	5036.567	17527738.63	35.5559	A	0.4
7	☐	10000.000	9967.066	34306278.10	70.3627	A	0.9
8	☐			16737.18	0.0370	P	0.5

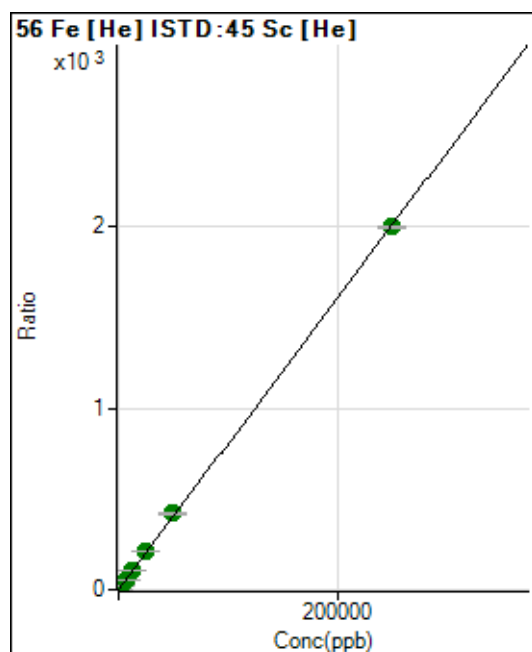
$$y = 0.0071 * x + 3.2168E-004$$

$$R = 1.0000$$

$$DL = 0.01412$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17049.78	0.0316	P	0.3
2	☐	50.000	54.813	254160.93	0.4712	P	0.7
3	☐	2500.000	2867.139	11961991.77	23.0237	A	1.1
4	☐	6250.000	6874.230	27821001.81	55.1572	A	0.6
5	☐	12500.000	13536.801	54039106.42	108.5855	A	1.8
6	☐	25000.000	26673.150	105457352.8	213.9281	A	0.6
7	☐	50000.000	52354.501	204703374.7	419.8711	A	1.4
8	☐	250000.00	249290.66	903918750.9	1,999.134	A	0.6

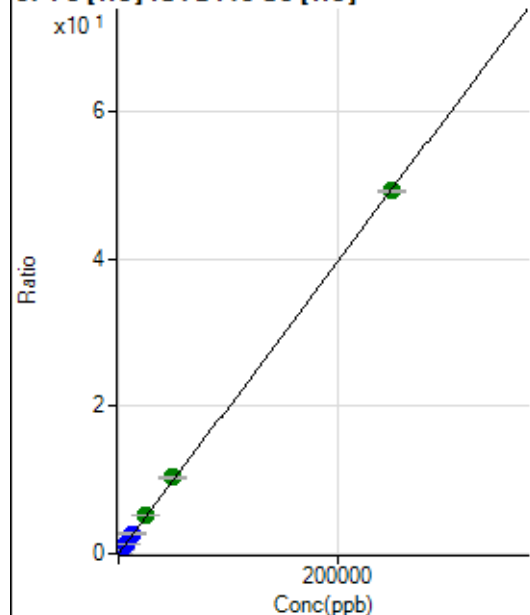
$$y = 0.0080 * x + 0.0316$$

$$R = 0.9999$$

$$DL = 0.0374$$

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	551.12	0.0010	P	3.0
2	☐	50.000	57.142	6631.52	0.0123	P	1.1
3	☐	2500.000	2931.711	300968.15	0.5793	P	1.2
4	☐	6250.000	7068.919	703756.67	1.3953	P	1.4
5	☐	12500.000	13837.298	1358764.27	2.7304	P	2.0
6	☐	25000.000	26717.675	2598254.25	5.2710	A	1.6
7	☐	50000.000	52289.885	5029071.49	10.3150	A	1.2
8	☐	250000.00	249278.59	22232378.00	49.1703	A	0.9

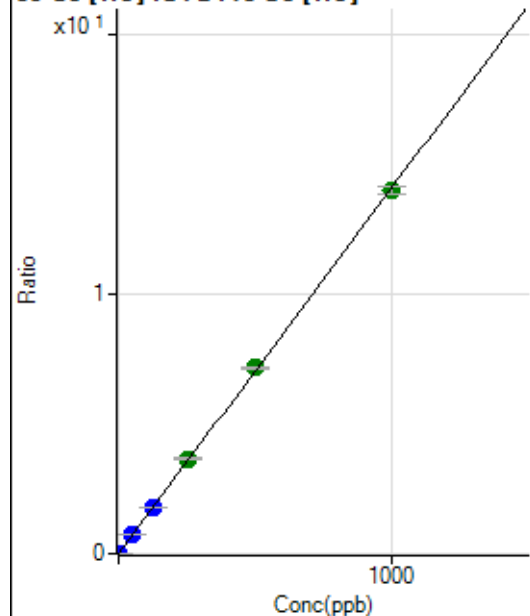
$$y = 1.9725\text{E-}004 * x + 0.0010$$

$$R = 0.9999$$

$$DL = 0.474$$

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	61.11	0.0001	P	51.3
2	☐	1.000	1.015	7764.30	0.0144	P	0.2
3	☐	50.000	52.368	382959.64	0.7371	P	1.4
4	☐	125.000	127.730	906734.00	1.7977	P	0.7
5	☐	250.000	259.087	1814540.77	3.6463	A	2.1
6	☐	500.000	509.087	3531803.07	7.1645	A	0.7
7	☐	1000.000	992.725	6810875.04	13.9708	A	2.0
8	☐			5877.88	0.0130	P	3.3

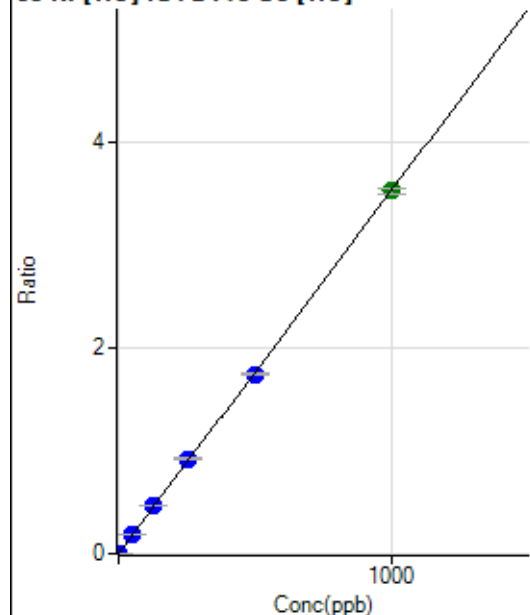
$$y = 0.0141 * x + 1.1360\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.01242$$

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	157.78	0.0003	P	15.6
2	☐	1.000	1.070	2191.29	0.0041	P	3.0
3	☐	50.000	53.783	98613.62	0.1898	P	0.7
4	☐	125.000	132.321	235306.86	0.4665	P	1.0
5	☐	250.000	261.617	458887.28	0.9221	P	1.9
6	☐	500.000	494.381	858838.63	1.7423	P	1.1
7	☐	1000.000	998.801	1715998.03	3.5196	A	1.4
8	☐			3484.89	0.0077	P	3.2

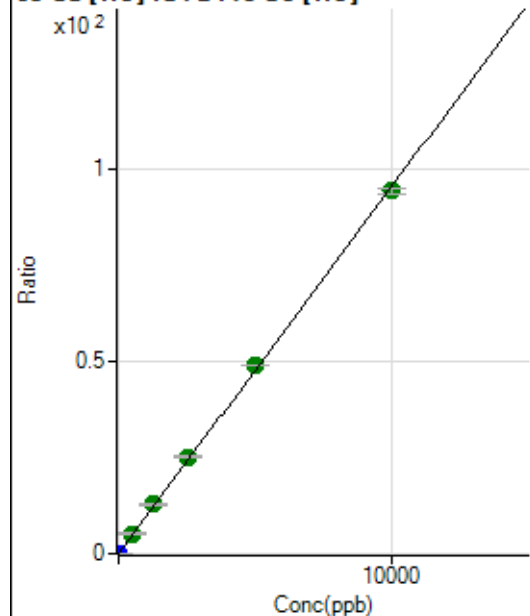
$$y = 0.0035 * x + 2.9286E-004$$

$$R = 0.9999$$

$$DL = 0.03881$$

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	1546.76	0.0029	P	3.3
2	☐	2.000	2.142	12590.95	0.0233	P	0.3
3	☐	500.000	549.642	2730915.73	5.2562	A	1.0
4	☐	1250.000	1339.244	6457514.28	12.8031	A	1.9
5	☐	2500.000	2632.422	12523273.29	25.1631	A	1.5
6	☐	5000.000	5127.696	24161407.69	49.0124	A	0.4
7	☐	10000.000	9889.409	46084223.76	94.5240	A	1.3
8	☐			7286.28	0.0161	P	2.3

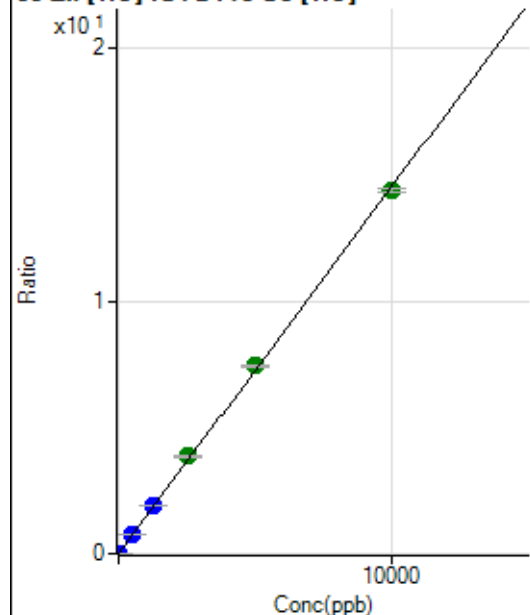
$$y = 0.0096 * x + 0.0029$$

$$R = 0.9998$$

$$DL = 0.02946$$

Weight: <None>

Min Conc: 0

66 Zn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	565.57	0.0010	P	3.4
2	☐	2.000	2.320	2382.44	0.0044	P	3.8
3	☐	500.000	533.780	403070.81	0.7758	P	1.1
4	☐	1250.000	1318.074	965496.01	1.9142	P	0.9
5	☐	2500.000	2659.364	1921493.86	3.8611	A	1.9
6	☐	5000.000	5115.924	3661028.35	7.4267	A	0.8
7	☐	10000.000	9891.999	7001058.79	14.3591	A	0.9
8	☐			4678.55	0.0103	P	5.2

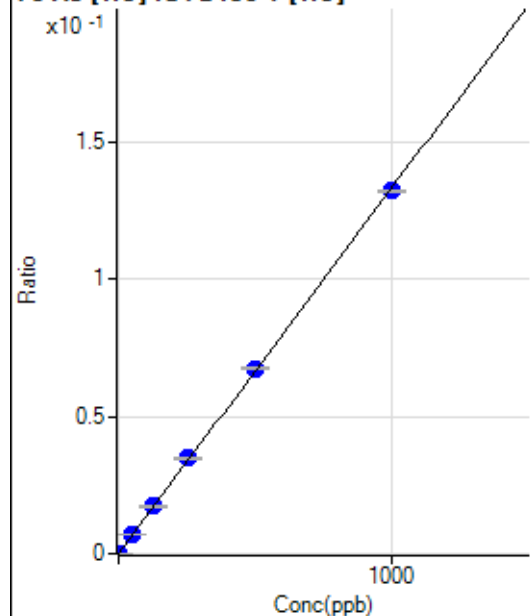
$$y = 0.0015 * x + 0.0010$$

$$R = 0.9998$$

$$DL = 0.07327$$

Weight: <None>

Min Conc: 0

75 As [He] ISTD:89 Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5.55	0.0000	P	68.6
2	☐	1.000	1.100	566.68	0.0001	P	6.2
3	☐	50.000	52.627	26016.16	0.0070	P	0.5
4	☐	125.000	129.264	62325.55	0.0172	P	1.9
5	☐	250.000	261.180	123311.41	0.0348	P	2.3
6	☐	500.000	507.307	237629.67	0.0676	P	0.6
7	☐	1000.000	992.887	466486.74	0.1322	P	0.8
8	☐			84.45	0.0000	P	30.5

$$y = 1.3318E-004 * x + 1.4511E-006$$

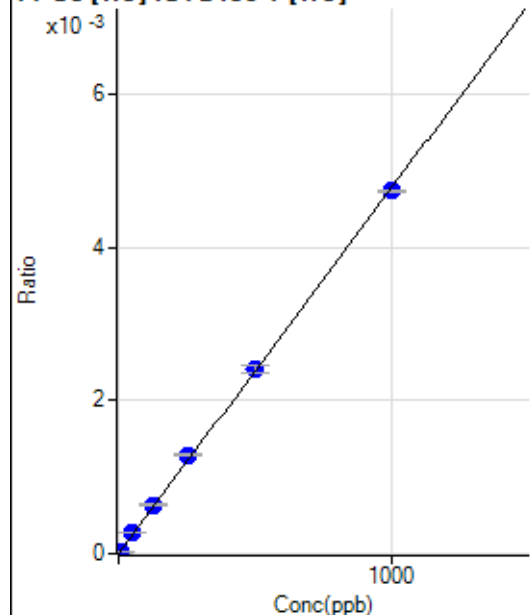
$$R = 0.9999$$

$$DL = 0.02241$$

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	1.11	0.0000	P	173.
2	☐	5.000	4.853	90.00	0.0000	P	4.3
3	☐	50.000	56.675	1006.71	0.0003	P	3.2
4	☐	125.000	133.907	2319.09	0.0006	P	1.1
5	☐	250.000	268.463	4551.86	0.0013	P	1.7
6	☐	500.000	504.004	8475.84	0.0024	P	3.9
7	☐	1000.000	991.936	16735.11	0.0047	P	0.6
8	☐			11.11	0.0000	P	62.6

$$y = 4.7815E-006 * x + 2.9153E-007$$

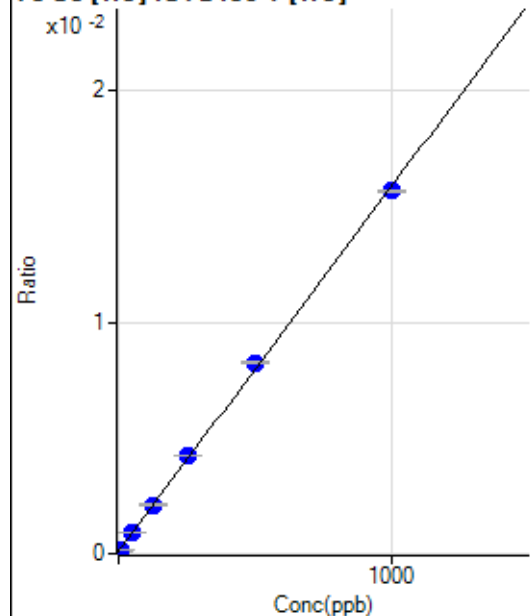
$$R = 0.9998$$

$$DL = 0.3168$$

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	372.23	0.0001	P	18.5
2	☐	5.000	4.347	636.69	0.0002	P	6.8
3	☐	50.000	53.052	3467.10	0.0009	P	4.0
4	☐	125.000	127.944	7662.05	0.0021	P	1.6
5	☐	250.000	262.866	15046.63	0.0042	P	1.1
6	☐	500.000	516.907	29020.70	0.0083	P	1.0
7	☐	1000.000	987.813	55312.88	0.0157	P	0.4
8	☐			285.56	0.0001	P	7.5

$$y = 1.5773E-005 * x + 9.7668E-005$$

$$R = 0.9997$$

$$DL = 3.431$$

Weight: <None>

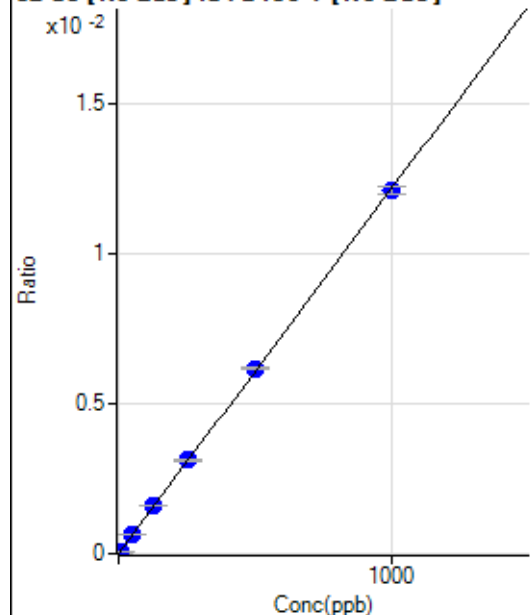
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			49254.45		P	0.7
2	☐			48633.50		P	1.0
3	☐			46894.44		P	1.7
4	☐			44618.53		P	1.5
5	☐			43743.88		P	0.7
6	☐			42806.58		P	1.4
7	☐			41935.16		P	0.6
8	☐			41286.69		P	1.3

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			97.78		P	8.6
2	☐			93.33		P	16.4
3	☐			77.78		P	29.2
4	☐			83.33		P	18.3
5	☐			75.56		P	20.4
6	☐			86.67		P	20.0
7	☐			97.78		P	11.0
8	☐			117.78		P	7.1

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0000	P	59.1
2	☐	5.000	5.488	1056.64	0.0001	P	4.0
3	☐	50.000	53.017	9815.63	0.0006	P	2.6
4	☐	125.000	130.721	23432.14	0.0016	P	0.6
5	☐	250.000	256.140	46105.73	0.0031	P	2.0
6	☐	500.000	507.088	89340.58	0.0062	P	1.6
7	☐	1000.000	994.052	174085.59	0.0121	P	2.0
8	☐			332.36	0.0000	P	11.1

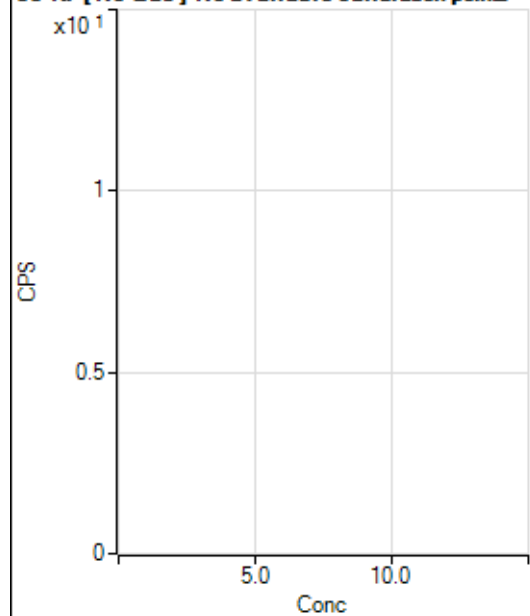
$$y = 1.2149\text{E-}005 * x + 2.5496\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.3722$$

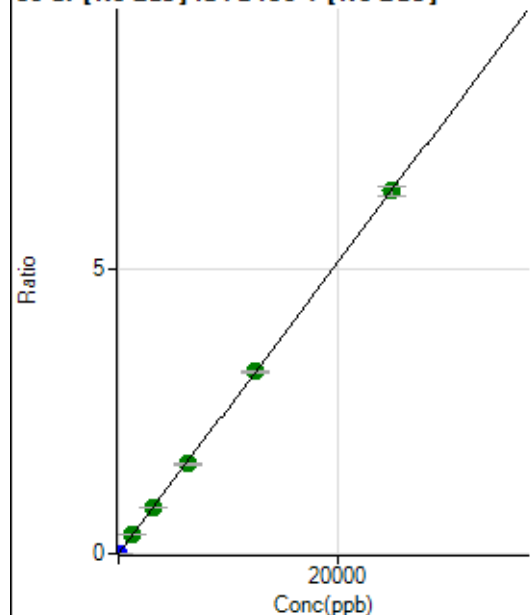
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			227.78		P	7.2
2	☐			216.67		P	13.7
3	☐			210.00		P	12.6
4	☐			223.34		P	1.5
5	☐			207.78		P	4.0
6	☐			230.00		P	7.5
7	☐			246.67		P	19.6
8	☐			268.89		P	12.7

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	404.45	0.0000	P	5.0
2	☐	1.000	1.004	4321.79	0.0003	P	1.2
3	☐	1250.000	1278.360	4957683.43	0.3266	A	1.7
4	☐	3125.000	3175.562	11950302.88	0.8113	A	1.1
5	☐	6250.000	6209.364	23483327.98	1.5863	A	1.9
6	☐	12500.000	12525.437	46385144.86	3.1998	A	1.0
7	☐	25000.000	24989.702	91999515.30	6.3839	A	2.5
8	☐			28086.19	0.0022	P	12.8

$$y = 2.5546E-004 * x + 2.6614E-005$$

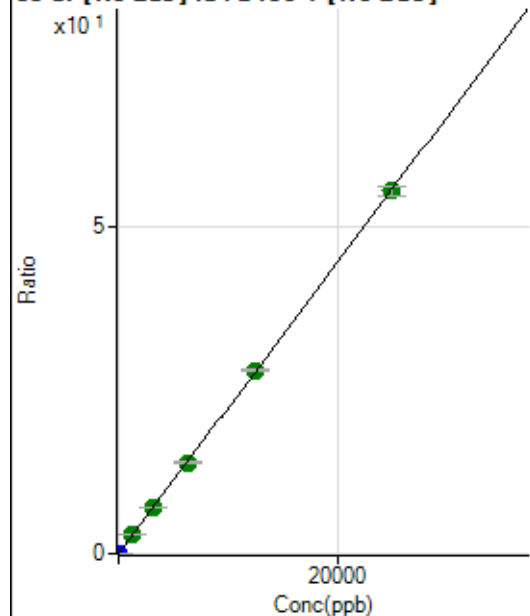
$$R = 1.0000$$

$$DL = 0.01566$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	613.35	0.0000	P	13.2
2	☐	1.000	0.964	33367.88	0.0022	P	1.4
3	☐	1250.000	1273.378	43020747.97	2.8341	A	2.1
4	☐	3125.000	3141.582	102996486.2	6.9921	A	1.2
5	☐	6250.000	6246.085	205817654.7	13.9016	A	1.4
6	☐	12500.000	12600.350	406544229.5	28.0440	A	0.9
7	☐	25000.000	24947.562	800186121.4	55.5246	A	2.4
8	☐			240298.22	0.0187	P	12.4

$$y = 0.0022 * x + 4.0389E-005$$

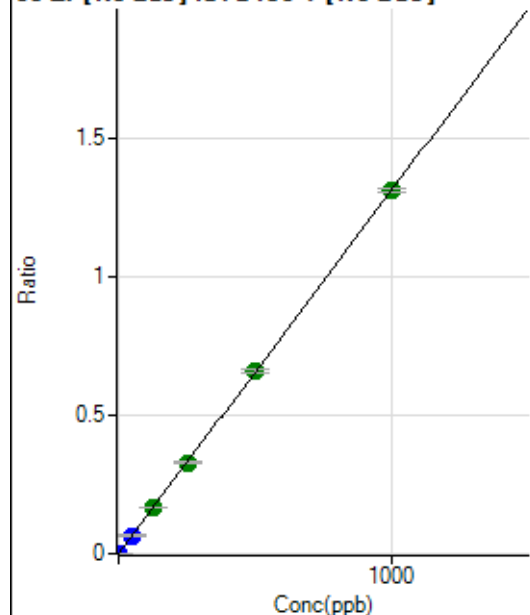
$$R = 1.0000$$

$$DL = 0.007165$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	575.57	0.0000	P	8.0
2	☐	1.000	0.942	19437.38	0.0013	P	1.4
3	☐	50.000	50.222	1000128.28	0.0659	P	1.5
4	☐	125.000	128.358	2479599.93	0.1683	A	1.2
5	☐	250.000	249.537	4843842.26	0.3272	A	2.6
6	☐	500.000	502.371	9548466.52	0.6587	A	1.5
7	☐	1000.000	998.499	18869491.11	1.3092	A	1.2
8	☐			5218.76	0.0004	P	11.6

$$y = 0.0013 * x + 3.7870E-005$$

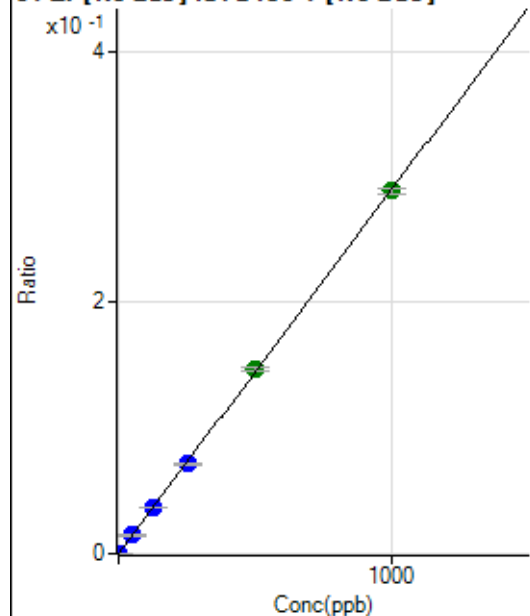
$$R = 1.0000$$

$$DL = 0.00691$$

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	110.00	0.0000	P	12.4
2	☐	1.000	0.965	4377.35	0.0003	P	3.2
3	☐	50.000	50.311	221304.66	0.0146	P	1.9
4	☐	125.000	125.717	536475.73	0.0364	P	1.0
5	☐	250.000	245.849	1054249.96	0.0712	P	2.0
6	☐	500.000	508.155	2133456.72	0.1472	A	2.2
7	☐	1000.000	996.855	4161253.27	0.2887	A	1.8
8	☐			1181.17	0.0001	P	19.4

$$y = 2.8964E-004 * x + 7.2297E-006$$

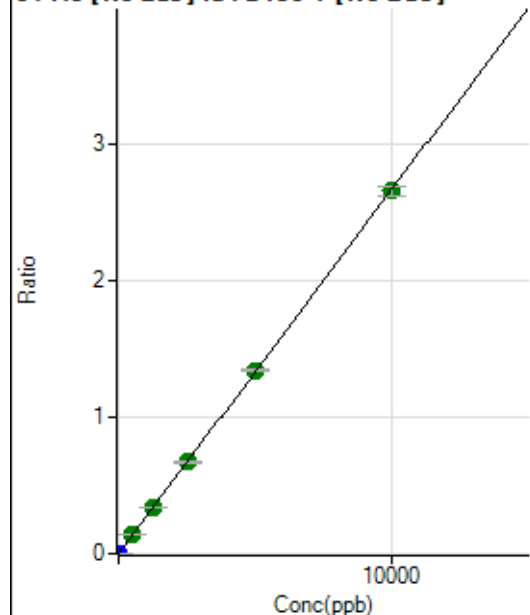
$$R = 0.9999$$

$$DL = 0.009257$$

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	187.78	0.0000	P	10.4
2	☐	5.000	5.624	23098.29	0.0015	P	1.4
3	☐	500.000	517.597	2097150.66	0.1382	A	2.7
4	☐	1250.000	1286.453	5058051.21	0.3434	A	0.6
5	☐	2500.000	2512.987	9930405.96	0.6707	A	0.8
6	☐	5000.000	5041.945	19506782.63	1.3457	A	1.5
7	☐	10000.000	9970.344	38349401.37	2.6611	A	2.4
8	☐			10604.00	0.0008	P	12.4

$$y = 2.6690E-004 * x + 1.2362E-005$$

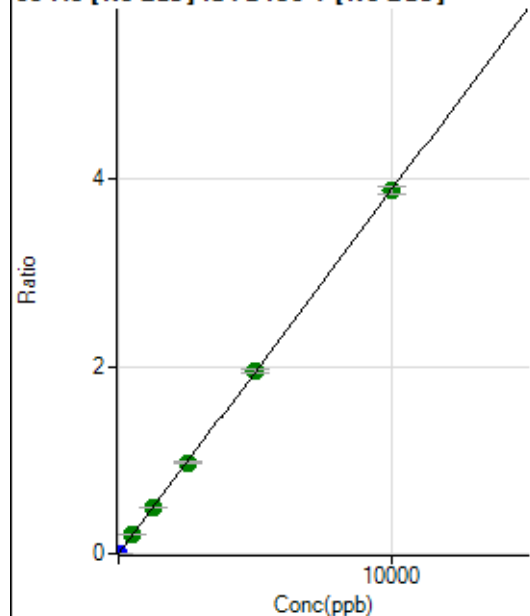
$$R = 1.0000$$

$$DL = 0.01442$$

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	80.00	0.0000	P	13.7
2	☐	5.000	4.767	28306.32	0.0019	P	0.4
3	☐	500.000	513.545	3024217.18	0.1992	A	1.5
4	☐	1250.000	1268.239	7247395.59	0.4920	A	1.4
5	☐	2500.000	2495.495	14331590.48	0.9681	A	1.6
6	☐	5000.000	5041.589	28348887.35	1.9558	A	2.1
7	☐	10000.000	9977.375	55780239.72	3.8705	A	2.2
8	☐			16057.83	0.0013	P	4.2

$$y = 3.8793E-004 * x + 5.2557E-006$$

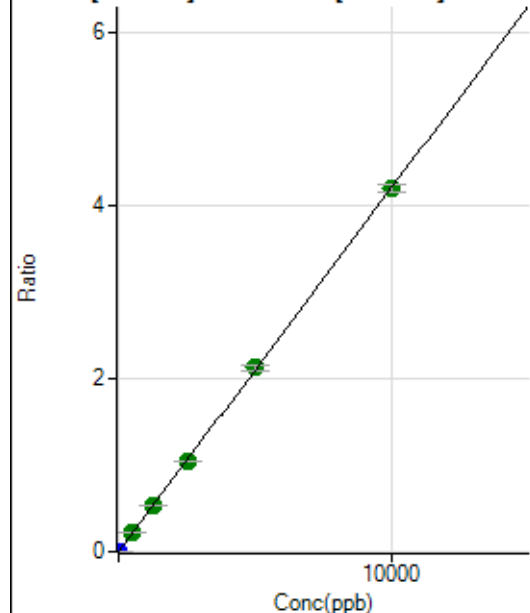
$$R = 1.0000$$

$$DL = 0.005566$$

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	158.89	0.0000	P	17.4
2	☐	5.000	4.854	31294.62	0.0021	P	1.2
3	☐	500.000	517.403	3301082.28	0.2175	A	1.4
4	☐	1250.000	1272.983	7880878.08	0.5350	A	0.8
5	☐	2500.000	2484.513	15458019.49	1.0442	A	1.8
6	☐	5000.000	5054.109	30787643.15	2.1241	A	2.5
7	☐	10000.000	9973.074	60405235.21	4.1914	A	2.0
8	☐			34464.35	0.0027	P	8.3

$$y = 4.2027E-004 * x + 1.0444E-005$$

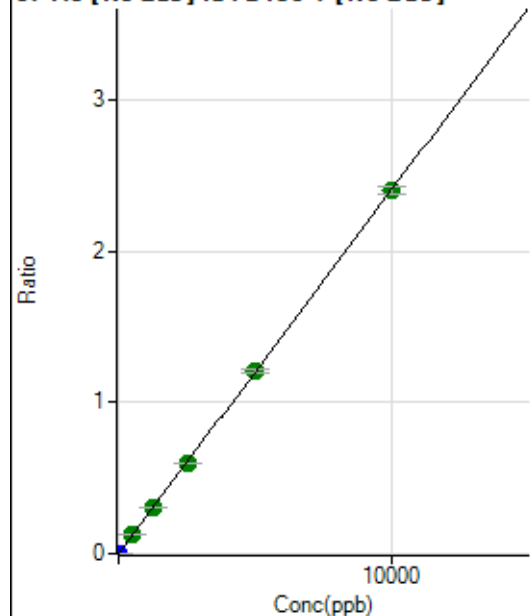
$$R = 1.0000$$

$$DL = 0.01298$$

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	44.45	0.0000	P	47.0
2	☐	5.000	4.726	17407.11	0.0011	P	1.2
3	☐	500.000	517.967	1892870.87	0.1247	A	1.7
4	☐	1250.000	1275.153	4521801.36	0.3070	A	0.7
5	☐	2500.000	2493.816	8887612.09	0.6003	A	1.3
6	☐	5000.000	5043.336	17598007.65	1.2141	A	2.1
7	☐	10000.000	9975.836	34608492.82	2.4014	A	2.2
8	☐			8609.34	0.0007	P	15.7

$$y = 2.4072E-004 * x + 2.9138E-006$$

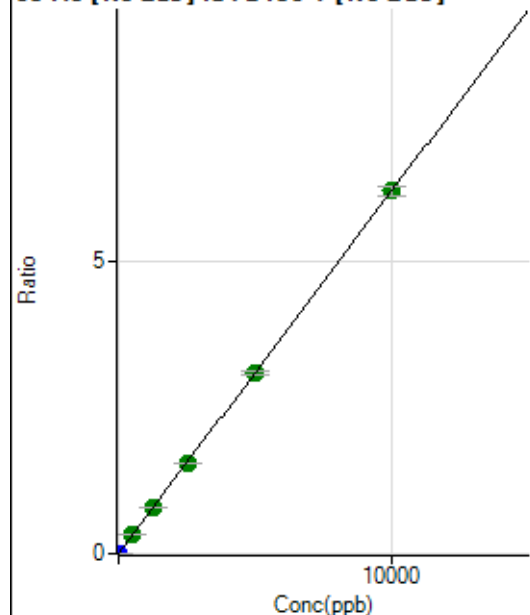
$$R = 1.0000$$

$$DL = 0.01708$$

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	76.67	0.0000	P	37.3
2	☐	5.000	4.750	44981.22	0.0029	P	2.5
3	☐	500.000	510.595	4801417.64	0.3163	A	0.9
4	☐	1250.000	1256.542	11465486.78	0.7783	A	0.6
5	☐	2500.000	2496.571	22895152.99	1.5464	A	0.9
6	☐	5000.000	4983.681	44750233.22	3.0870	A	1.2
7	☐	10000.000	10007.669	89340837.56	6.1990	A	2.3
8	☐			19613.86	0.0015	P	21.2

$$y = 6.1943\text{E-}004 * x + 5.0267\text{E-}006$$

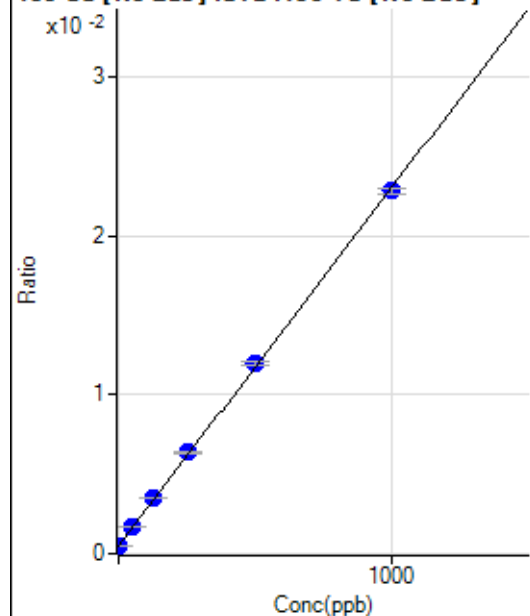
$$R = 1.0000$$

$$DL = 0.009085$$

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	6025.74	0.0005	P	1.8
2	☐	1.000	1.172	6399.25	0.0005	P	2.4
3	☐	50.000	53.980	21609.49	0.0017	P	3.0
4	☐	125.000	133.705	43541.81	0.0035	P	2.6
5	☐	250.000	262.464	79839.15	0.0064	P	1.6
6	☐	500.000	508.051	147229.38	0.0119	P	2.0
7	☐	1000.000	991.571	279392.73	0.0228	P	1.9
8	☐			5277.67	0.0005	P	3.4

$$y = 2.2533\text{E-}005 * x + 4.7983\text{E-}004$$

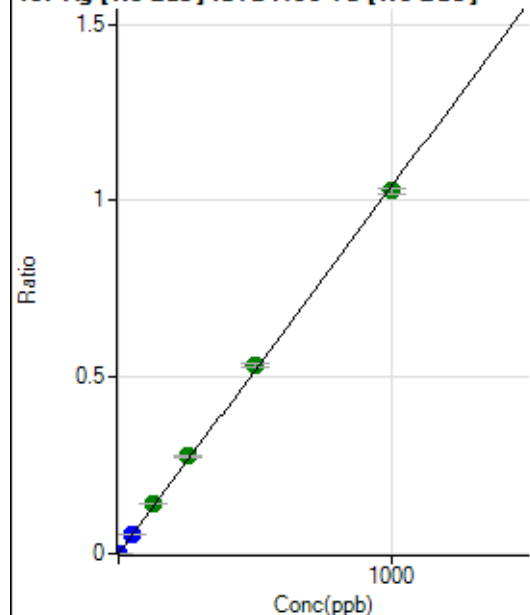
$$R = 0.9999$$

$$DL = 1.149$$

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	81.11	0.0000	P	26.0
2	☐	1.000	1.075	14214.84	0.0011	P	0.8
3	☐	50.000	53.587	710212.40	0.0557	P	2.7
4	☐	125.000	136.126	1765606.50	0.1416	A	0.8
5	☐	250.000	264.594	3436452.90	0.2752	A	2.1
6	☐	500.000	513.420	6592114.83	0.5341	A	1.4
7	☐	1000.000	988.071	12581910.23	1.0278	A	1.6
8	☐			5313.25	0.0005	P	9.8

$$y = 0.0010 * x + 6.4512E-006$$

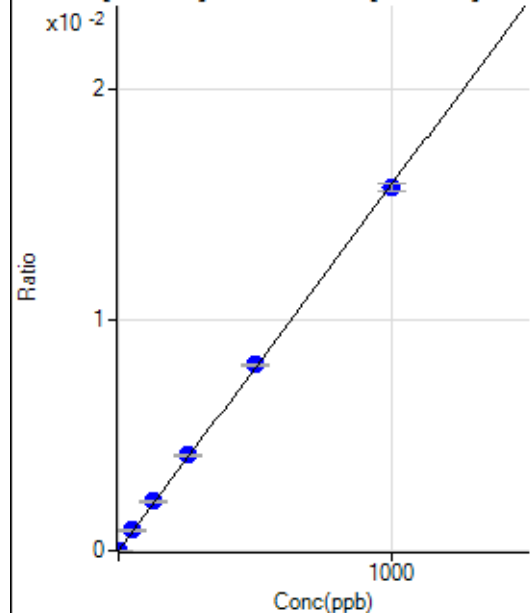
$$R = 0.9997$$

$$DL = 0.004846$$

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	13.33	0.0000	P	42.4
2	☐	1.000	1.164	246.67	0.0000	P	16.0
3	☐	50.000	55.170	11147.72	0.0009	P	4.9
4	☐	125.000	134.245	26530.97	0.0021	P	2.7
5	☐	250.000	261.072	51661.63	0.0041	P	2.4
6	☐	500.000	508.737	99514.36	0.0081	P	1.2
7	☐	1000.000	991.449	192314.17	0.0157	P	2.2
8	☐			115.56	0.0000	P	7.2

$$y = 1.5845E-005 * x + 1.0591E-006$$

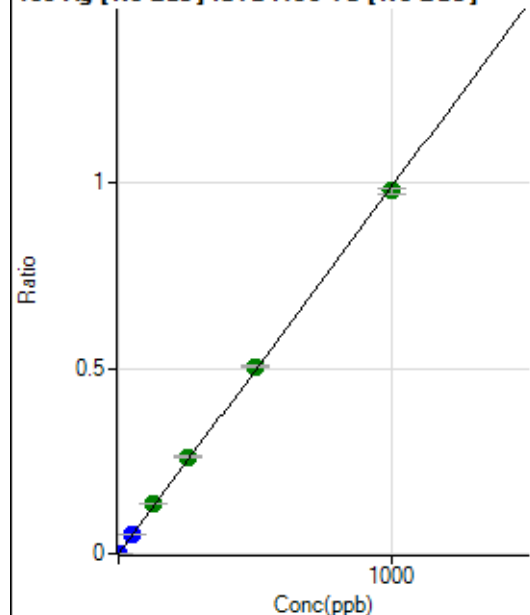
$$R = 0.9999$$

$$DL = 0.08496$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.00	0.0000	P	23.0
2	☐	1.000	1.053	13183.85	0.0010	P	1.7
3	☐	50.000	53.541	674118.78	0.0529	P	2.4
4	☐	125.000	135.400	1668239.58	0.1338	A	1.7
5	☐	250.000	264.665	3265465.26	0.2615	A	2.5
6	☐	500.000	511.192	6235681.78	0.5052	A	0.5
7	☐	1000.000	989.261	11967660.24	0.9776	A	1.4
8	☐			4968.69	0.0005	P	14.8

$$y = 9.8820E-004 * x + 2.3917E-006$$

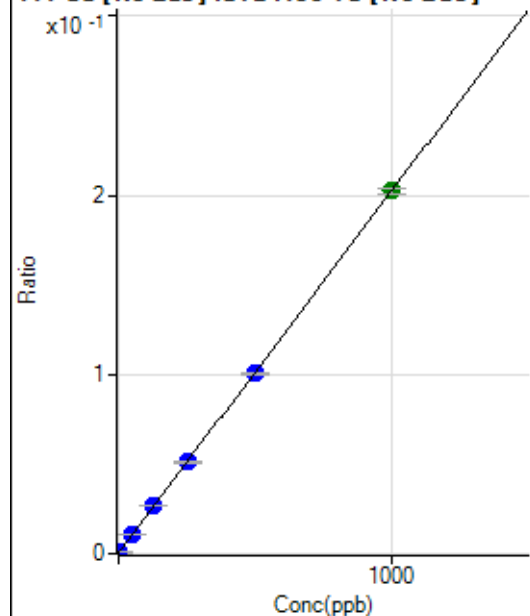
$$R = 0.9998$$

$$DL = 0.001671$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4219.80	0.0003	P	1.8
2	☐	1.000	1.057	6945.96	0.0005	P	2.2
3	☐	50.000	52.692	139849.64	0.0110	P	2.4
4	☐	125.000	130.828	333551.44	0.0268	P	2.7
5	☐	250.000	253.147	642473.61	0.0515	P	2.0
6	☐	500.000	495.728	1239854.43	0.1004	P	1.0
7	☐	1000.000	1000.486	2477631.39	0.2024	A	1.4
8	☐			4364.62	0.0004	P	1.8

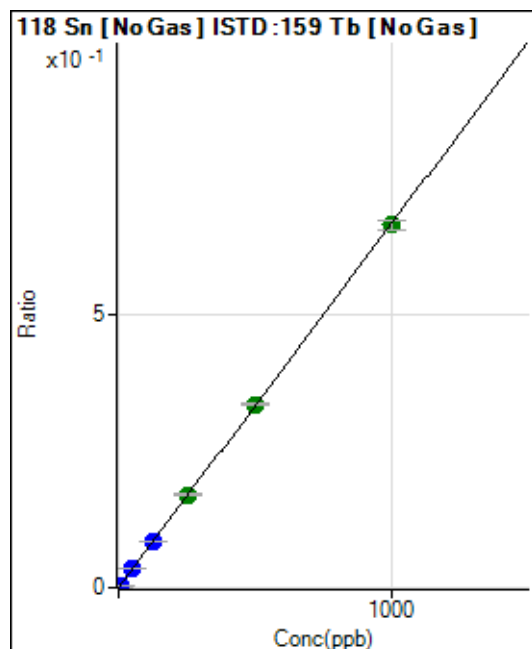
$$y = 2.0194E-004 * x + 3.3602E-004$$

$$R = 1.0000$$

$$DL = 0.08845$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	738.92	0.0001	P	6.2
2	☐	5.000	5.008	43085.36	0.0034	P	0.7
3	☐	50.000	50.846	434032.86	0.0341	P	2.4
4	☐	125.000	125.523	1047475.60	0.0840	P	1.8
5	☐	250.000	254.709	2127966.16	0.1704	A	1.3
6	☐	500.000	504.358	4164789.45	0.3374	A	1.6
7	☐	1000.000	996.536	8160759.04	0.6666	A	2.4
8	☐			5178.76	0.0005	P	2.8

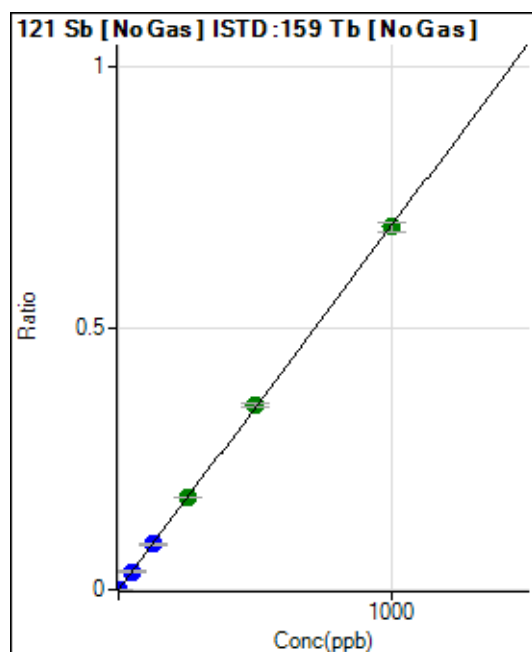
$$y = 6.6886\text{E-}004 * x + 5.8839\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.01639$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	68.89	0.0000	P	38.6
2	☐	2.000	1.947	17172.59	0.0014	P	0.9
3	☐	50.000	49.862	441430.50	0.0346	P	2.7
4	☐	125.000	124.449	1078079.49	0.0865	P	2.0
5	☐	250.000	253.925	2202932.99	0.1764	A	1.5
6	☐	500.000	504.674	4328236.92	0.3507	A	2.1
7	☐	1000.000	996.758	8477258.83	0.6925	A	2.7
8	☐			4348.48	0.0004	P	2.1

$$y = 6.9480\text{E-}004 * x + 5.4779\text{E-}006$$

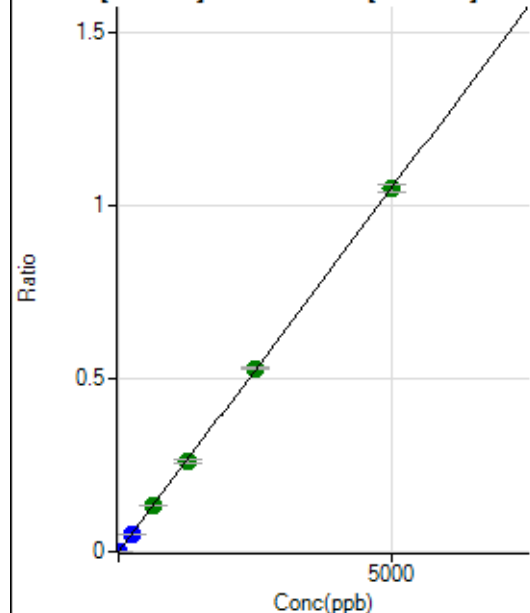
$$R = 1.0000$$

$$DL = 0.009123$$

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	33.33	0.0000	P	34.2
2	☐	10.000	9.404	25005.34	0.0020	P	0.7
3	☐	250.000	242.768	649702.50	0.0510	P	2.7
4	☐	625.000	637.632	1669848.97	0.1339	A	2.3
5	☐	1250.000	1247.166	3270547.97	0.2620	A	3.3
6	☐	2500.000	2518.560	6530194.49	0.5290	A	1.2
7	☐	5000.000	4990.212	12831691.89	1.0482	A	2.1
8	☐			6539.36	0.0006	P	9.2

$$y = 2.1005\text{E-}004 * x + 2.6504\text{E-}006$$

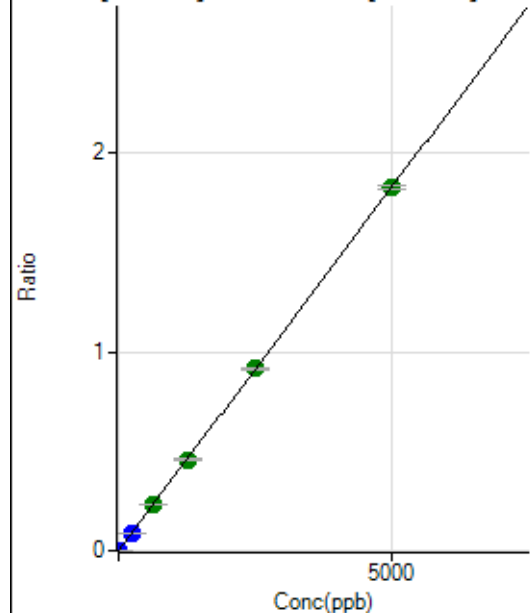
$$R = 1.0000$$

$$DL = 0.01295$$

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	87.78	0.0000	P	37.4
2	☐	10.000	9.489	43888.70	0.0035	P	1.6
3	☐	250.000	241.559	1123800.76	0.0882	P	2.7
4	☐	625.000	634.472	2888591.62	0.2317	A	1.4
5	☐	1250.000	1248.351	5691531.65	0.4558	A	1.6
6	☐	2500.000	2509.328	11310787.75	0.9163	A	1.0
7	☐	5000.000	4994.987	22328869.95	1.8239	A	1.1
8	☐			11365.80	0.0011	P	9.8

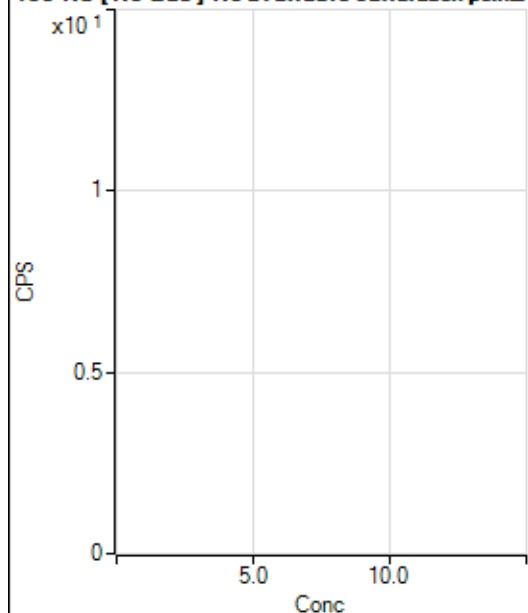
$$y = 3.6514\text{E-}004 * x + 6.9965\text{E-}006$$

$$R = 1.0000$$

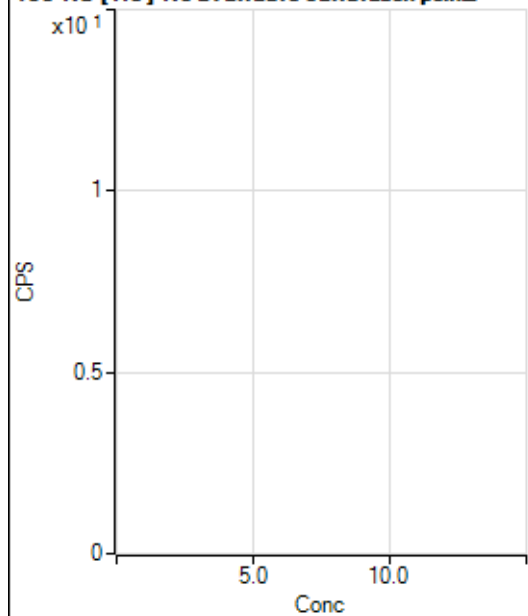
$$DL = 0.02152$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

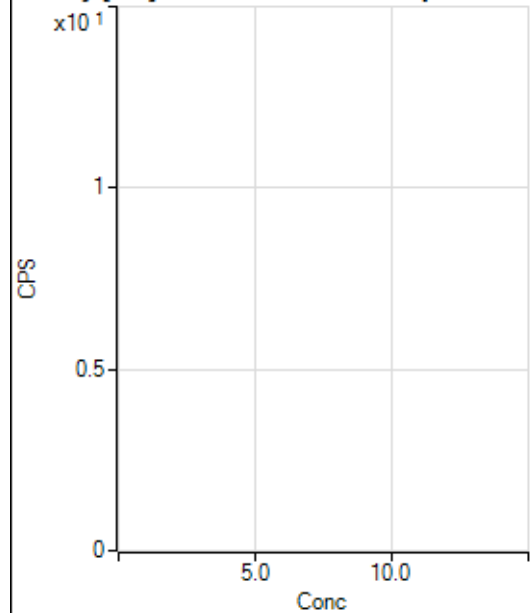
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14.44		P	53.3
2	☐			10.00		P	100.
3	☐			115.56		P	7.3
4	☐			272.23		P	8.2
5	☐			516.68		P	11.7
6	☐			927.82		P	0.5
7	☐			1749.02		P	5.2
8	☐			80.00		P	19.1

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			2.22		P	86.6
3	☐			27.78		P	13.9
4	☐			52.22		P	38.5
5	☐			100.00		P	20.0
6	☐			178.89		P	25.2
7	☐			333.34		P	6.6
8	☐			46.67		P	25.8

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	45.8
2	☐			12.22		P	41.7
3	☐			64.44		P	13.0
4	☐			104.45		P	14.7
5	☐			216.67		P	12.0
6	☐			417.79		P	7.9
7	☐			810.03		P	4.7
8	☐			2056.84		P	3.7

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			13.33		P	66.1
3	☐			53.33		P	31.2
4	☐			116.67		P	7.6
5	☐			204.45		P	14.1
6	☐			356.68		P	3.2
7	☐			731.14		P	0.5
8	☐			1400.08		P	3.0

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

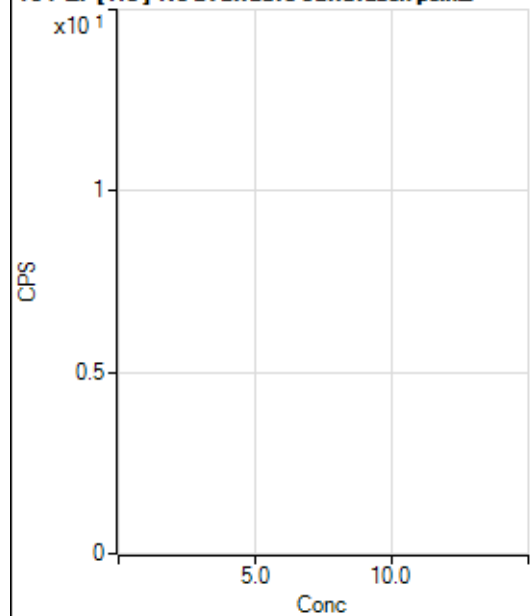
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			60.00		P	16.7
2	☐			54.45		P	12.7
3	☐			93.33		P	16.4
4	☐			143.34		P	18.6
5	☐			208.89		P	5.1
6	☐			402.23		P	9.2
7	☐			611.13		P	5.5
8	☐			2312.44		P	4.5

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			375.56		P	16.4
2	☐			336.67		P	10.0
3	☐			372.23		P	8.3
4	☐			380.01		P	4.9
5	☐			461.12		P	1.7
6	☐			512.24		P	9.5
7	☐			712.25		P	7.5
8	☐			1867.92		P	7.0

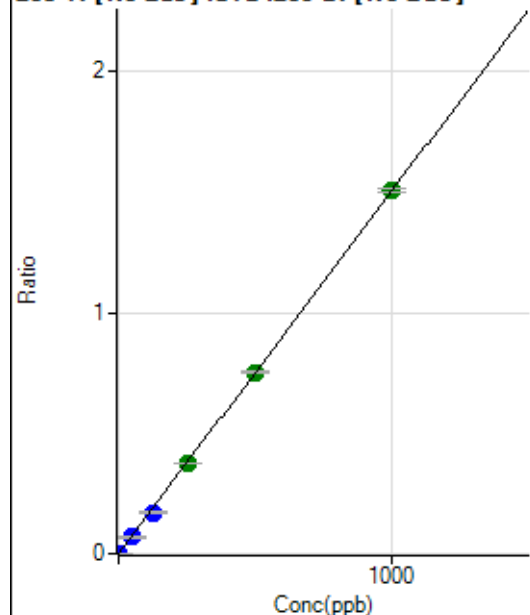
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			97.78		P	11.0
2	☐			106.67		P	17.4
3	☐			100.00		P	18.6
4	☐			132.22		P	18.2
5	☐			132.23		P	3.9
6	☐			125.56		P	12.3
7	☐			187.78		P	5.1
8	☐			182.23		P	18.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			57.78		P	6.7
2	☐			68.89		P	31.1
3	☐			53.34		P	10.8
4	☐			57.78		P	17.6
5	☐			70.00		P	28.6
6	☐			85.56		P	14.7
7	☐			114.45		P	17.6
8	☐			104.44		P	21.3

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	126.67	0.0000	P	16.8
2	☐	1.000	0.889	10549.71	0.0014	P	1.7
3	☐	50.000	45.179	533962.27	0.0679	P	1.6
4	☐	125.000	113.120	1319623.14	0.1699	P	2.4
5	☐	250.000	249.246	2889753.46	0.3743	A	1.2
6	☐	500.000	500.881	5666611.44	0.7521	A	0.5
7	☐	1000.000	1001.474	11068756.92	1.5038	A	0.9
8	☐			1675.69	0.0003	P	33.3

$$y = 0.0015 * x + 1.6293E-005$$

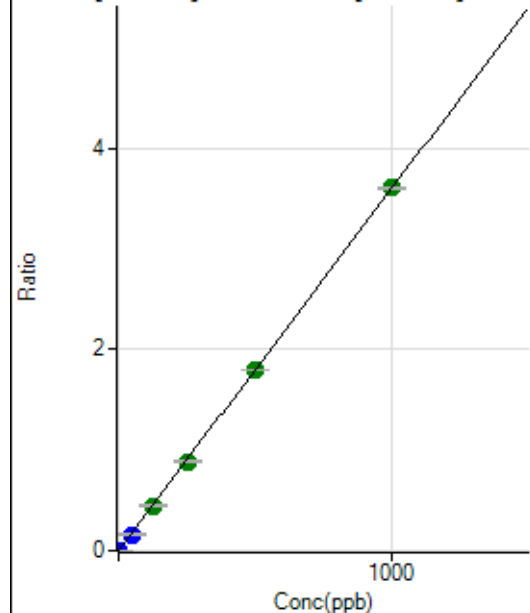
$$R = 0.9999$$

$$DL = 0.005473$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	297.78	0.0000	P	2.4
2	☐	1.000	0.874	24846.03	0.0032	P	1.4
3	☐	50.000	44.856	1269726.80	0.1614	P	1.8
4	☐	125.000	123.825	3459677.42	0.4454	A	2.3
5	☐	250.000	246.822	6853856.63	0.8877	A	1.4
6	☐	500.000	497.785	13488160.77	1.7902	A	0.4
7	☐	1000.000	1002.306	26533129.61	3.6046	A	0.6
8	☐			4032.91	0.0007	P	29.3

$$y = 0.0036 * x + 3.8283E-005$$

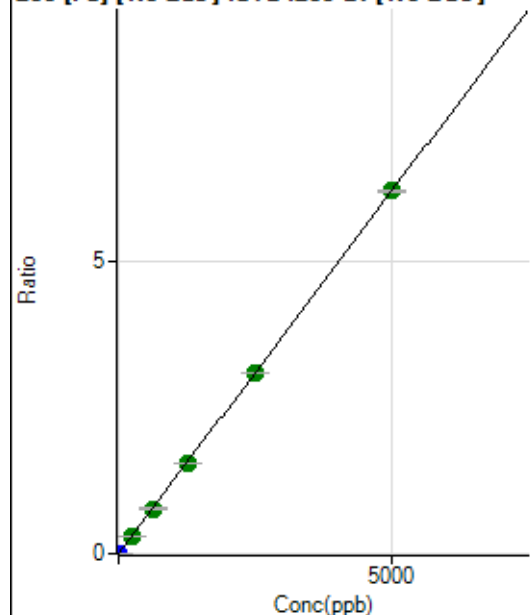
$$R = 1.0000$$

$$DL = 0.0007652$$

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	700.03	0.0001	P	5.0
2	☐	1.000	0.862	9063.07	0.0012	P	4.1
3	☐	250.000	249.915	2444977.20	0.3107	A	1.3
4	☐	625.000	623.450	6019979.98	0.7749	A	2.5
5	☐	1250.000	1246.732	11964578.29	1.5496	A	1.1
6	☐	2500.000	2488.989	23307416.32	3.0935	A	0.4
7	☐	5000.000	5006.521	45801108.21	6.2224	A	0.8
8	☐			10748.88	0.0018	P	14.5

$$y = 0.0012 * x + 8.9991E-005$$

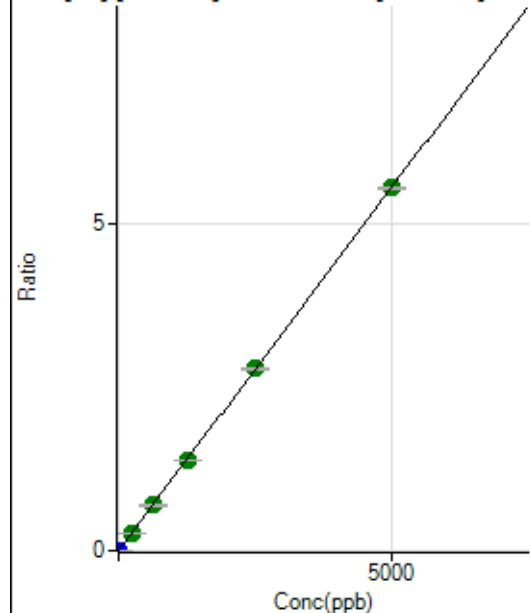
$$R = 1.0000$$

$$DL = 0.01092$$

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	590.02	0.0001	P	9.4
2	☐	1.000	0.829	7770.08	0.0010	P	1.2
3	☐	250.000	248.674	2170602.24	0.2758	A	2.2
4	☐	625.000	624.665	5381672.94	0.6928	A	2.7
5	☐	1250.000	1243.998	10651815.60	1.3795	A	0.6
6	☐	2500.000	2509.341	20965514.55	2.7827	A	0.7
7	☐	5000.000	4996.938	40790589.95	5.5412	A	0.8
8	☐			9357.81	0.0016	P	15.6

$$y = 0.0011 * x + 7.5844E-005$$

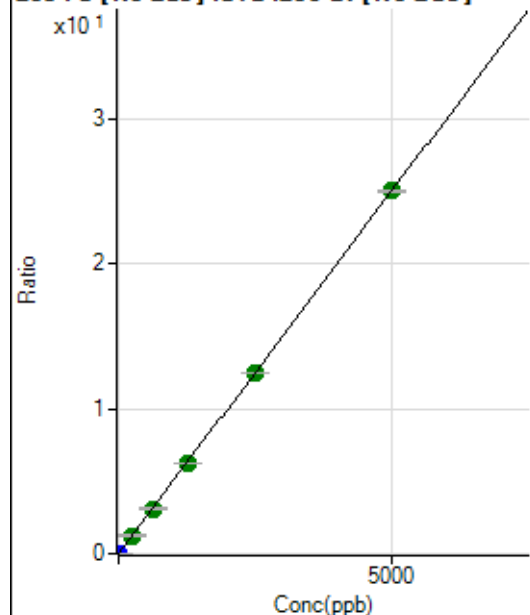
$$R = 1.0000$$

$$DL = 0.01927$$

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	2706.80	0.0003	P	2.5
2	☐	1.000	0.842	35625.14	0.0046	P	1.4
3	☐	250.000	249.649	9842021.14	1.2507	A	1.9
4	☐	625.000	622.360	24217903.56	3.1174	A	2.0
5	☐	1250.000	1241.394	48009034.07	6.2178	A	0.5
6	☐	2500.000	2494.875	94146929.01	12.4958	A	0.9
7	☐	5000.000	5005.062	184530417.8	25.0678	A	0.3
8	☐			42520.11	0.0073	P	14.7

$$y = 0.0050 * x + 3.4801E-004$$

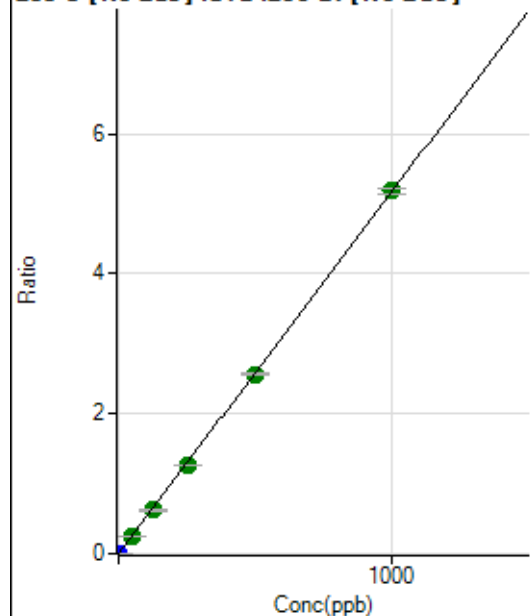
$$R = 1.0000$$

$$DL = 0.005119$$

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	30.00	0.0000	P	11.5
2	☐	1.000	0.802	32395.32	0.0041	P	1.1
3	☐	50.000	47.569	1934075.04	0.2458	A	1.3
4	☐	125.000	120.894	4852108.96	0.6246	A	2.9
5	☐	250.000	244.864	9768183.81	1.2651	A	1.6
6	☐	500.000	496.935	19343976.38	2.5675	A	0.6
7	☐	1000.000	1003.452	38159297.76	5.1845	A	1.7
8	☐			4514.21	0.0008	P	30.9

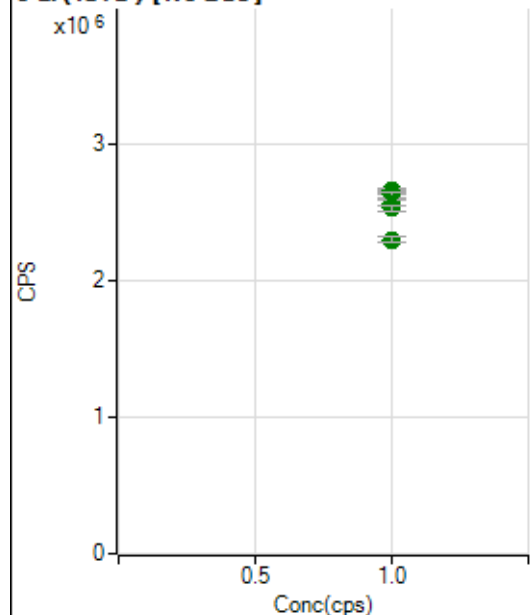
$$y = 0.0052 * x + 3.8583E-006$$

$$R = 1.0000$$

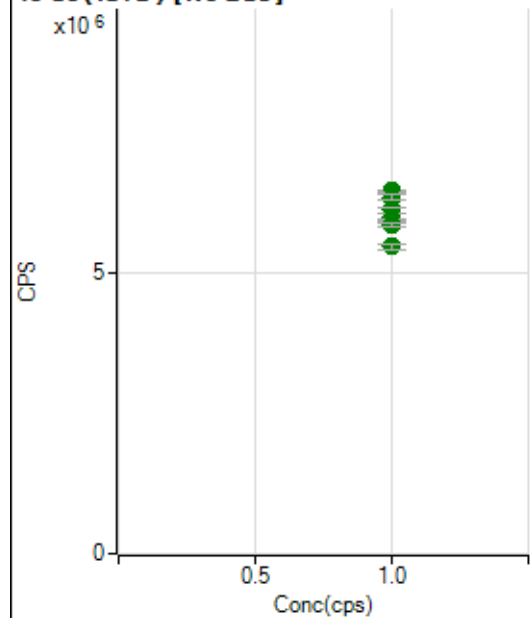
$$DL = 0.0002587$$

Weight: <None>

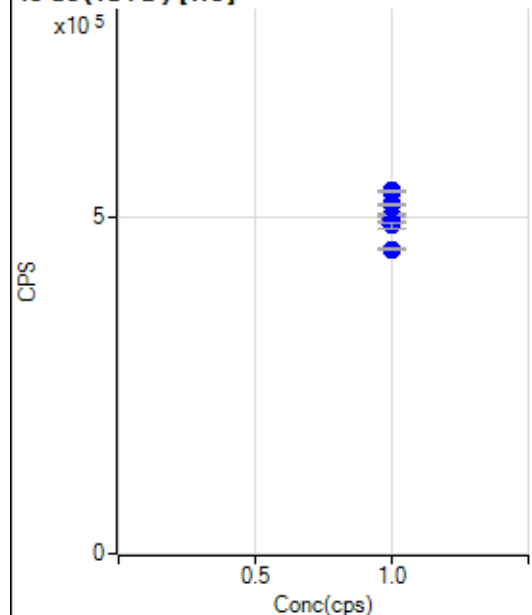
Min Conc: 0

6 Li (ISTD) [No Gas]

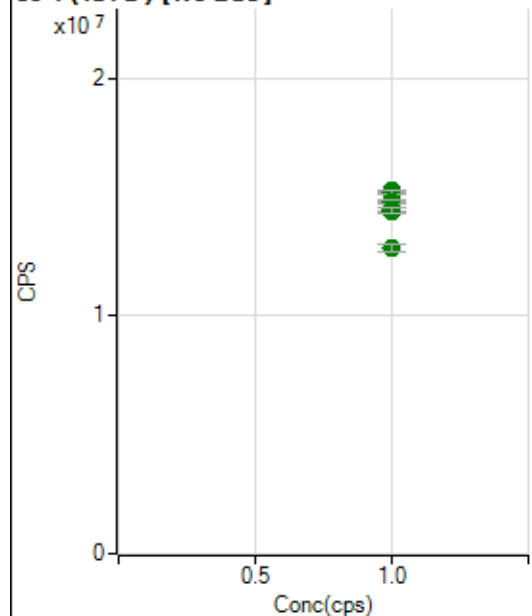
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2633936.87		A	0.2
2	☐	1.000		2655547.03		A	0.9
3	☐	1.000		2660850.45		A	0.5
4	☐	1.000		2659561.17		A	1.5
5	☐	1.000		2632722.55		A	1.9
6	☐	1.000		2572099.23		A	1.3
7	☐	1.000		2535746.61		A	1.5
8	☐	1.000		2301888.59		A	2.0

45 Sc (ISTD) [No Gas]

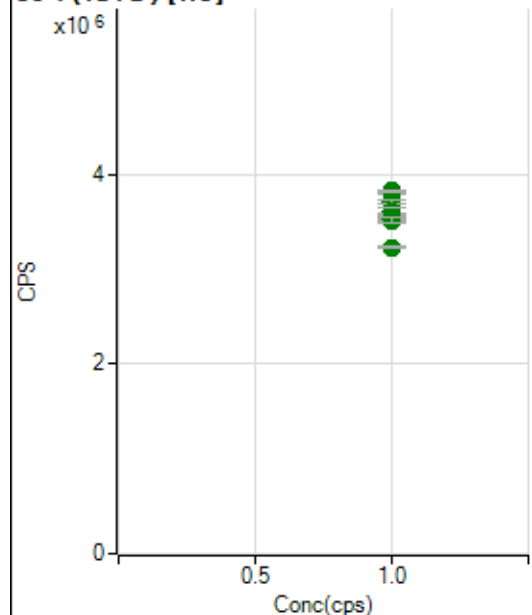
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6469095.87		A	0.5
2	☐	1.000		6429076.50		A	0.5
3	☐	1.000		6354760.39		A	1.9
4	☐	1.000		6121156.30		A	1.2
5	☐	1.000		6004405.61		A	1.7
6	☐	1.000		5951572.83		A	0.5
7	☐	1.000		5852405.12		A	1.2
8	☐	1.000		5473275.06		A	1.5

45 Sc (ISTD) [He]

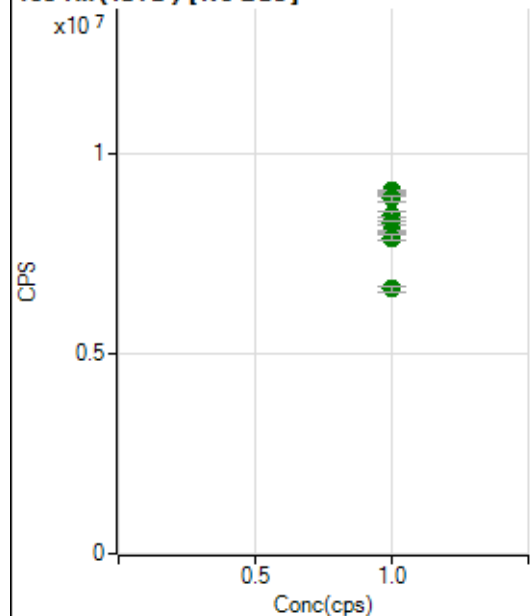
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		538927.96		P	0.5
2	☐	1.000		539411.43		P	0.5
3	☐	1.000		519557.91		P	0.5
4	☐	1.000		504415.05		P	1.2
5	☐	1.000		497758.24		P	1.7
6	☐	1.000		492971.60		P	0.7
7	☐	1.000		487604.01		P	1.5
8	☐	1.000		452162.92		P	0.5

89 Y (ISTD) [No Gas]

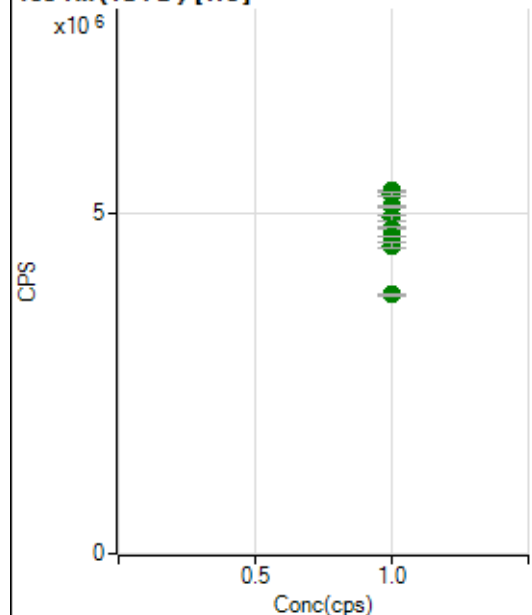
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15203608.94		A	1.3
2	☐	1.000		15262453.80		A	0.4
3	☐	1.000		15181443.80		A	1.0
4	☐	1.000		14730948.81		A	0.5
5	☐	1.000		14805938.11		A	1.0
6	☐	1.000		14497623.68		A	1.3
7	☐	1.000		14414874.93		A	1.6
8	☐	1.000		12834521.06		A	2.7

89 Y (ISTD) [He]

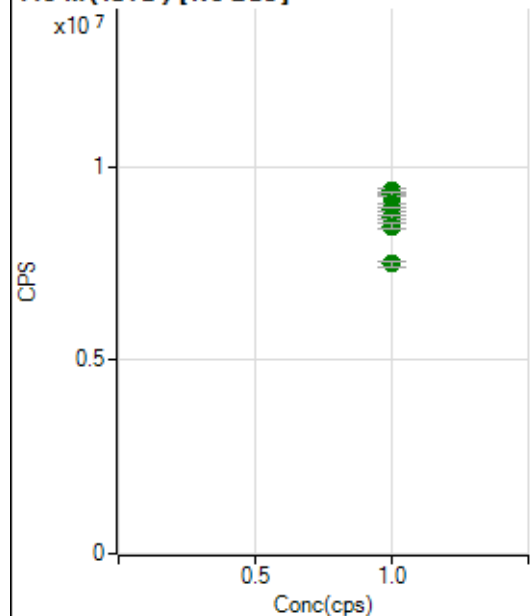
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3814390.81		A	0.8
2	☐	1.000		3830709.14		A	0.6
3	☐	1.000		3711199.18		A	1.1
4	☐	1.000		3620809.98		A	1.8
5	☐	1.000		3545913.14		A	1.8
6	☐	1.000		3517167.31		A	0.7
7	☐	1.000		3528013.56		A	1.5
8	☐	1.000		3232833.21		A	0.5

103 Rh (ISTD) [No Gas]

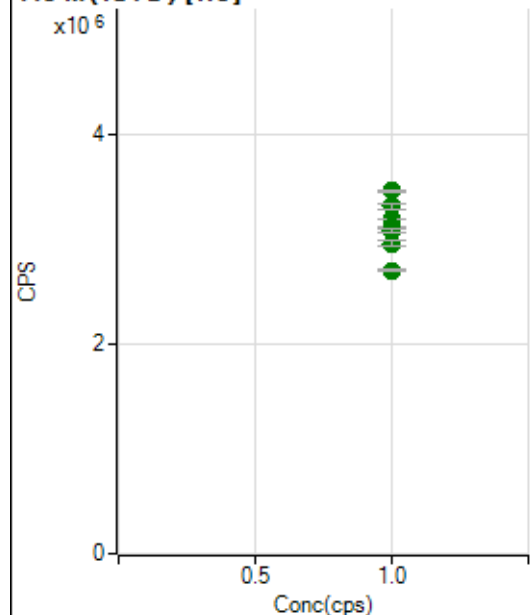
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9032101.60		A	0.3
2	☐	1.000		9081397.23		A	0.3
3	☐	1.000		8882992.44		A	1.8
4	☐	1.000		8485902.37		A	1.4
5	☐	1.000		8290298.90		A	1.3
6	☐	1.000		8063173.00		A	0.8
7	☐	1.000		7909326.82		A	1.6
8	☐	1.000		6621652.54		A	2.1

103 Rh (ISTD) [He]

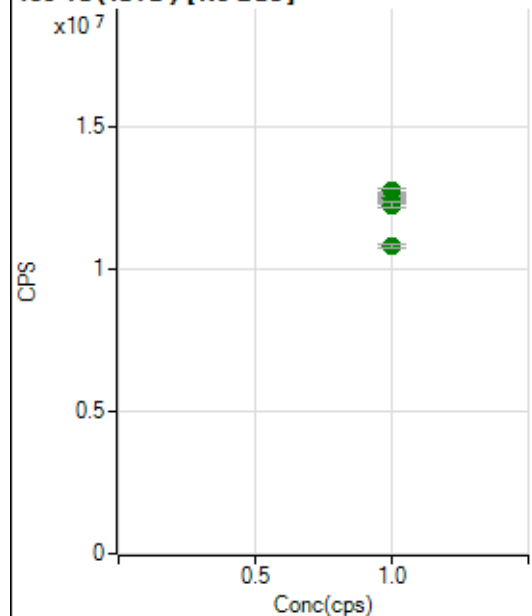
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5339855.72		A	0.4
2	☐	1.000		5293437.53		A	0.8
3	☐	1.000		5118227.28		A	0.4
4	☐	1.000		4943631.14		A	1.7
5	☐	1.000		4790591.98		A	0.6
6	☐	1.000		4670560.87		A	0.3
7	☐	1.000		4541833.16		A	1.3
8	☐	1.000		3816581.33		A	0.9

115 In (ISTD) [No Gas]

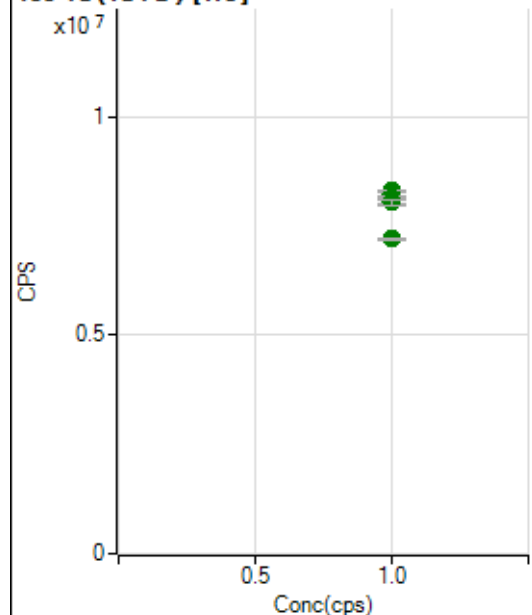
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9287004.86		A	0.4
2	☐	1.000		9371000.69		A	1.0
3	☐	1.000		9290038.46		A	0.8
4	☐	1.000		9034732.16		A	0.0
5	☐	1.000		8893140.61		A	0.8
6	☐	1.000		8695783.71		A	1.3
7	☐	1.000		8456336.49		A	1.5
8	☐	1.000		7480686.12		A	2.1

115 In (ISTD) [He]

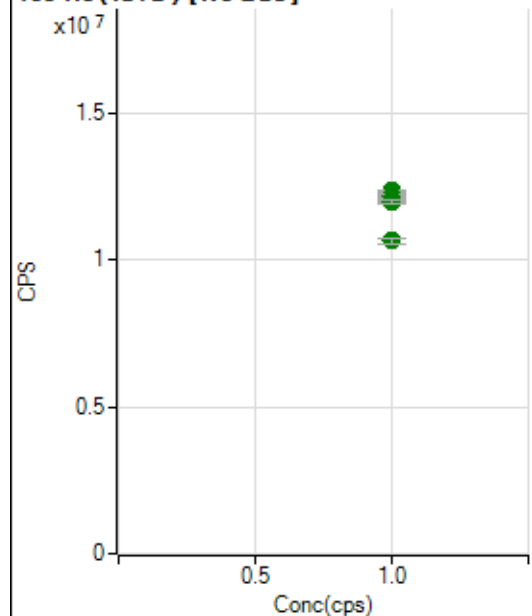
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3463416.61		A	0.6
2	☐	1.000		3465477.78		A	0.9
3	☐	1.000		3316766.96		A	1.6
4	☐	1.000		3194995.69		A	0.2
5	☐	1.000		3116102.00		A	0.2
6	☐	1.000		3087192.65		A	0.7
7	☐	1.000		2964877.21		A	1.9
8	☐	1.000		2707384.33		A	0.2

159 Tb (ISTD) [No Gas]

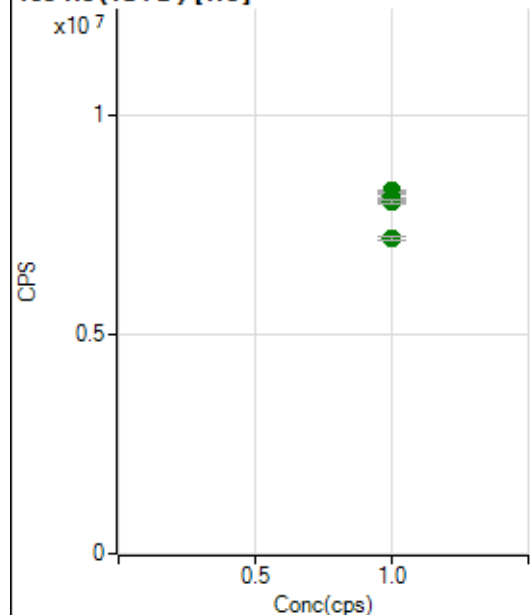
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12559346.48		A	0.9
2	☐	1.000		12641226.76		A	0.4
3	☐	1.000		12744150.09		A	1.8
4	☐	1.000		12469623.84		A	1.4
5	☐	1.000		12487650.09		A	1.3
6	☐	1.000		12344231.06		A	0.7
7	☐	1.000		12243786.76		A	1.5
8	☐	1.000		10798558.52		A	1.6

159 Tb (ISTD) [He]

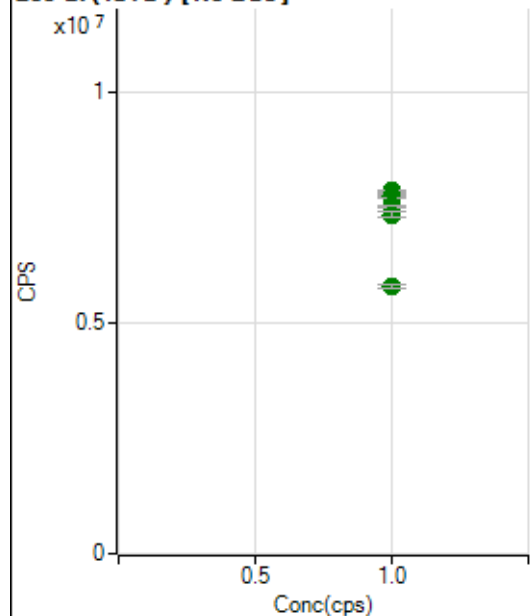
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8294664.53		A	0.5
2	☐	1.000		8272720.57		A	0.6
3	☐	1.000		8126935.85		A	0.8
4	☐	1.000		8210092.86		A	1.9
5	☐	1.000		8128732.17		A	1.0
6	☐	1.000		8066254.74		A	1.9
7	☐	1.000		8025796.69		A	2.1
8	☐	1.000		7193393.50		A	1.1

165 Ho (ISTD) [No Gas]

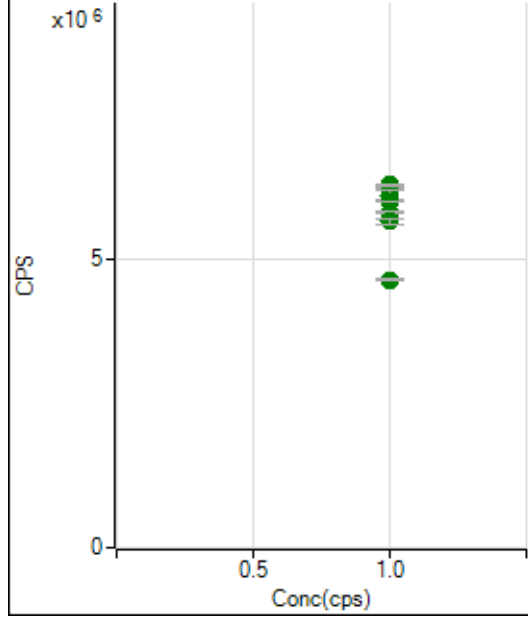
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12181129.82		A	0.6
2	☐	1.000		12238388.57		A	0.4
3	☐	1.000		12349576.76		A	0.7
4	☐	1.000		12023128.99		A	0.5
5	☐	1.000		12143461.21		A	1.2
6	☐	1.000		12052270.10		A	1.2
7	☐	1.000		11991897.74		A	1.2
8	☐	1.000		10642968.04		A	1.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8282981.33		A	0.4
2	☐	1.000		8226847.24		A	0.9
3	☐	1.000		8170636.69		A	1.6
4	☐	1.000		8108624.88		A	0.2
5	☐	1.000		8025020.85		A	0.6
6	☐	1.000		8070918.21		A	1.2
7	☐	1.000		8023000.23		A	1.3
8	☐	1.000		7195920.24		A	0.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7778027.04		A	0.5
2	☐	1.000		7807191.62		A	1.1
3	☐	1.000		7869808.01		A	0.7
4	☐	1.000		7769535.65		A	1.0
5	☐	1.000		7721168.50		A	0.4
6	☐	1.000		7534290.72		A	0.2
7	☐	1.000		7361162.53		A	1.2
8	☐	1.000		5800450.12		A	1.9

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6272424.63		A	1.0
2	☐	1.000		6293659.70		A	0.2
3	☐	1.000		6115994.49		A	2.4
4	☐	1.000		6003387.76		A	0.2
5	☐	1.000		5997498.10		A	0.1
6	☐	1.000		5819291.79		A	0.5
7	☐	1.000		5663396.10		A	1.5
8	☐	1.000		4649872.50		A	0.8

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7032423MS.b
Acq. Date-Time 2023-03-24 15:04:04
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		13108	131077.95			0.584	5.000
24		153058	1530575.91			0.564	5.000
25		20731	207312.42			0.442	5.000
26		23711	237109.02			4.131	5.000
59		111908	1119083.34			0.602	5.000
113		12220	122204.20			0.595	5.000
115		166683	1666827.71			0.945	5.000
206		39560	395601.60			0.570	5.000
207		36952	369522.91			0.609	5.000
208		90352	903521.53			0.722	5.000
220		0	2.80			44.821	

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

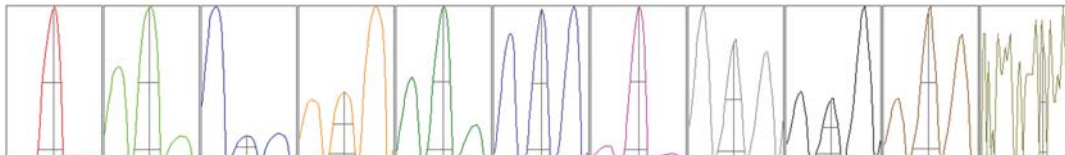
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	13026	13048	13151	13214	13100
24	152980	152010	154180	153613	152505
25	20631	20666	20836	20819	20704
26	21971	23965	24164	24167	24288
59	111631	110877	112168	112263	112602
113	12107	12227	12302	12257	12209
115	164467	165939	166821	168579	167608
206	39372	39448	39809	39801	39371
207	36564	37108	37090	37041	36958
208	90095	90214	91457	90267	89728

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	23981.75	9.00	8.90 - 9.10	
24	252038.72	23.95	23.90 - 24.10	
25	34645.95	24.95	24.90 - 25.10	
26	39032.96	25.95	25.90 - 26.10	
59	215002.98	59.00	58.90 - 59.10	
113	26146.23	113.05	112.90 - 113.10	
115	350239.55	115.05	114.90 - 115.10	
206	80127.26	205.95	205.90 - 206.10	
207	72802.77	206.95	206.90 - 207.10	
208	185020.61	207.95	207.90 - 208.10	
220	0.40	220.50	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.780	0.900	
24	0.64	0.821	0.900	
25	0.62	0.814	0.900	
26	0.64	0.825	0.900	
59	0.54	0.793	0.900	
113	0.47	0.726	0.900	
115	0.48	0.724	0.900	
206	0.50	0.846	0.900	
207	0.49	0.782	0.900	
208	0.49	0.849	0.900	
220	0.20	0.245		

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	9.3 V	Deflect	15.4 V
Extract 2	-125.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-75 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	122	Axis Gain	1.0002	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	1.1 mm
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EM

Discriminator	3.2 mV	Analog HV	2258 V	Pulse HV	1490 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		36966	369658.56			0.303	
89		71129	711292.20			1.054	
205		36583	365826.53			0.570	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	36933	36980	37083	37040	36794
89	70575	71054	72408	70594	71016
205	36523	36317	36639	36891	36543

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.5 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-115.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-70 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	122	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	1.1 mm
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EM

Discriminator	3.2 mV	Analog HV	2258 V	Pulse HV	1490 V
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