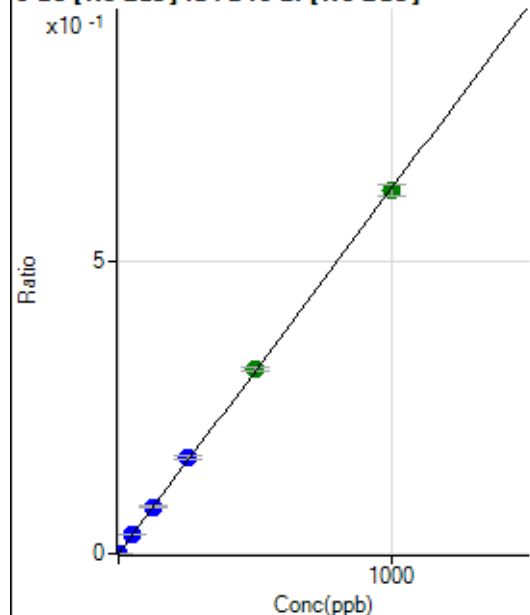


Calibration for 004CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7100222-MS.b\
 Analysis File: P7100222-MS.batch.bin
 DA Date-Time: 2022-10-02 14:21:01
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2022-10-02 14:11:12
2	005CALS.d	S02	2022-10-02 14:16:56
3	006CALS.d	S03	2022-10-02 14:19:49
4	007CALS.d	S04	2022-10-02 14:22:33
5	008CALS.d	S05	2022-10-02 14:25:19
6	009CALS.d	S06	2022-10-02 14:28:03
7	010CALS.d	S07	2022-10-02 14:30:50
8	011CALS.d	S08	2022-10-02 14:33:34

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	134.45	0.0000	P	17.5
2	☐	1.000	1.096	2946.97	0.0007	P	2.8
3	☐	50.000	51.436	133160.51	0.0321	P	2.5
4	☐	125.000	127.266	334461.63	0.0794	P	4.5
5	☐	250.000	262.607	662603.21	0.1638	P	2.7
6	☐	500.000	505.745	1291596.08	0.3154	A	2.8
7	☐	1000.000	993.621	2495065.55	0.6197	A	3.2
8	☐			1010.05	0.0003	P	5.3

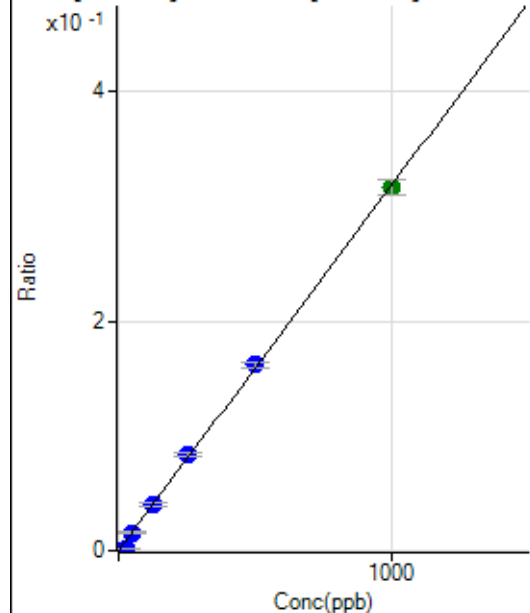
$$y = 6.2363\text{E-}004 * x + 3.3211\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.02802$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	233.34	0.0001	P	17.8
2	☐	25.000	6.540	8797.18	0.0021	P	7.0
3	☐	50.000	49.687	65812.24	0.0159	P	2.8
4	☐	125.000	124.639	167318.07	0.0397	P	7.0
5	☐	250.000	263.599	339564.38	0.0839	P	5.2
6	☐	500.000	507.951	662204.75	0.1617	P	3.3
7	☐	1000.000	993.147	1272798.71	0.3161	A	4.3
8	☐			25304.49	0.0065	P	9.3

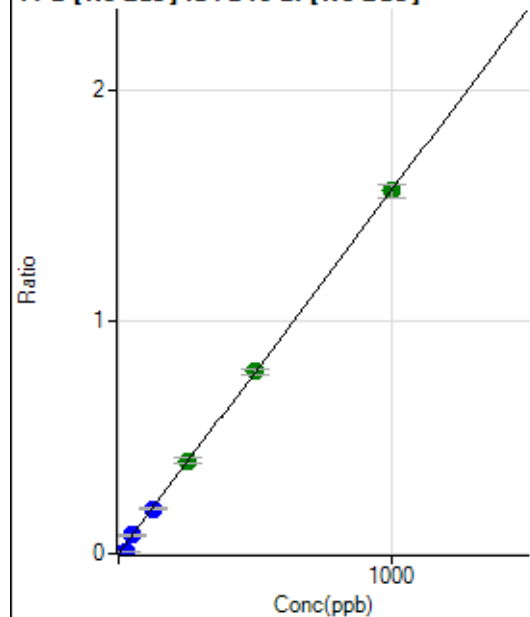
$$y = 3.1825\text{E-}004 * x + 5.7771\text{E-}005$$

$$R = 0.9996$$

$$DL = 0.09685$$

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	1372.32	0.0003	P	9.2
2	☐	25.000	6.415	42720.83	0.0104	P	6.8
3	☐	50.000	50.481	329382.39	0.0794	P	4.5
4	☐	125.000	123.626	817313.26	0.1940	P	5.7
5	☐	250.000	254.685	1615320.04	0.3994	A	6.2
6	☐	500.000	501.235	3217374.53	0.7857	A	3.2
7	☐	1000.000	998.824	6302840.03	1.5653	A	3.8
8	☐			125135.21	0.0324	P	10.9

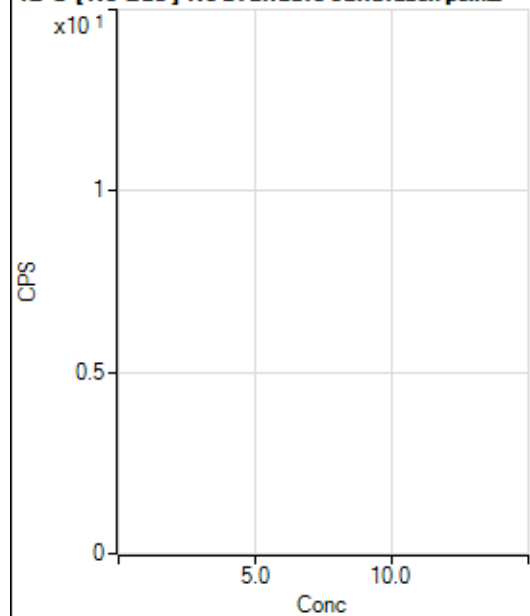
$$y = 0.0016 * x + 3.3942E-004$$

$$R = 0.9998$$

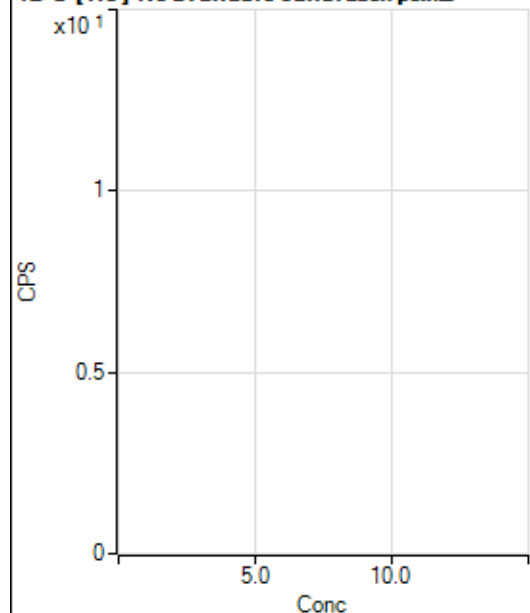
$$DL = 0.06$$

Weight: <None>

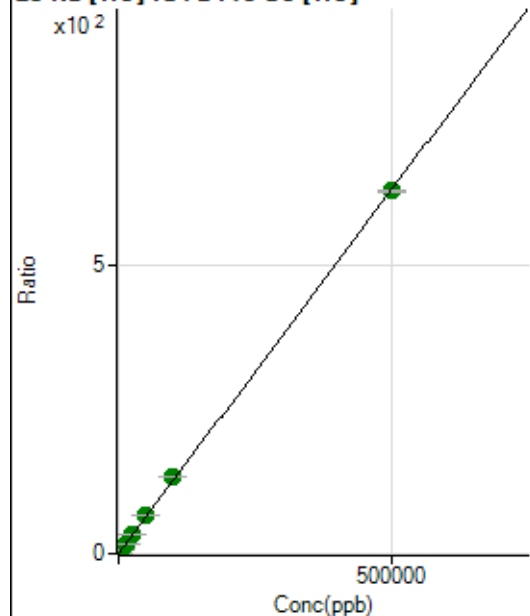
Min Conc: 0

12 C [No Gas] No available calibration points

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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	20517.59	0.0328	P	0.9
2	☐	500.000	549.414	453977.95	0.7274	P	0.7
3	☐	5000.000	5476.076	4418614.05	6.9555	A	0.8
4	☐	12500.000	13590.321	10999166.91	17.2132	A	0.6
5	☐	25000.000	26434.937	21971447.71	33.4508	A	1.9
6	☐	50000.000	53570.401	43321647.73	67.7544	A	1.0
7	☐	100000.00	105067.85	86216422.30	132.8554	A	1.3
8	☐	500000.00	498525.57	403587216.4	630.2488	A	0.8

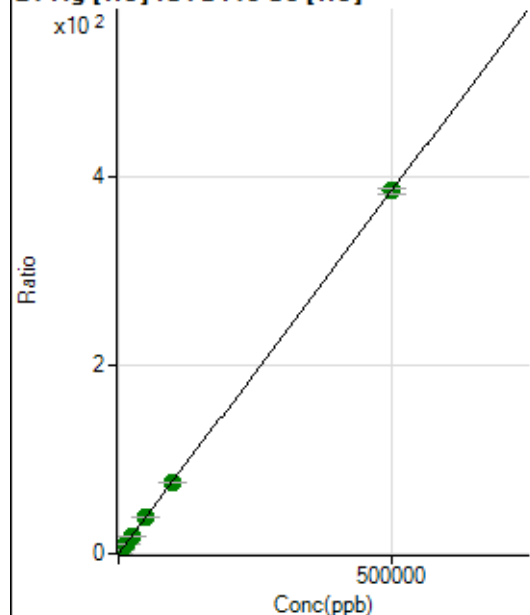
$$y = 0.0013 * x + 0.0328$$

$$R = 0.9999$$

$$DL = 0.7346$$

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	385.20	0.0006	P	15.2
2	☐	500.000	555.594	267597.56	0.4287	P	0.7
3	☐	5000.000	5236.367	2563604.86	4.0356	A	1.1
4	☐	12500.000	12923.509	6363817.21	9.9591	A	1.0
5	☐	25000.000	24881.645	12592377.94	19.1737	A	2.3
6	☐	50000.000	50668.520	24964660.97	39.0443	A	0.5
7	☐	100000.00	98753.965	49383433.05	76.0976	A	1.1
8	☐	500000.00	500175.26	246806299.9	385.4214	A	1.3

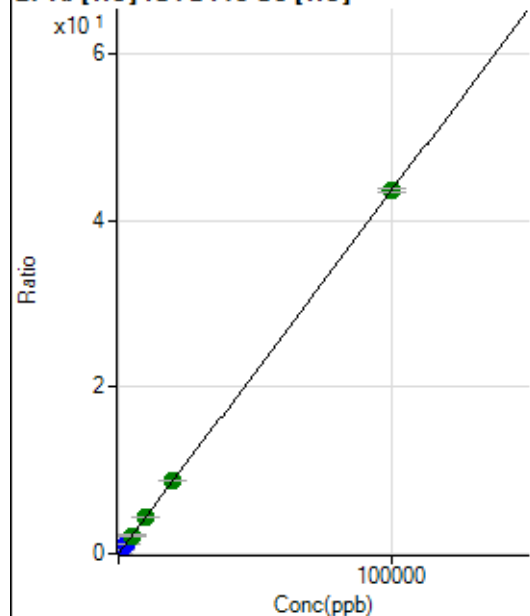
$$y = 7.7057E-004 * x + 6.1625E-004$$

$$R = 1.0000$$

$$DL = 0.3658$$

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	262.97	0.0004	P	12.7
2	☐	20.000	23.068	6536.70	0.0105	P	1.1
3	☐	1000.000	1248.859	345963.90	0.5446	P	0.5
4	☐	2500.000	2588.340	720952.38	1.1283	P	0.6
5	☐	5000.000	4990.545	1428430.11	2.1750	A	2.4
6	☐	10000.000	10267.347	2860875.90	4.4744	A	0.7
7	☐	20000.000	20033.100	5664946.08	8.7297	A	1.3
8	☐	100000.00	99962.420	27893167.98	43.5585	A	1.1

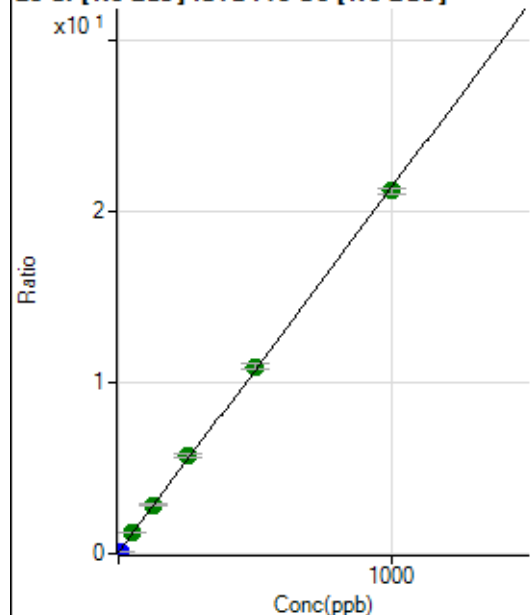
$$y = 4.3574E-004 * x + 4.2081E-004$$

$$R = 1.0000$$

$$DL = 0.3689$$

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	695549.15	0.0847	P	0.7
2	☐	10.000	0.419	772019.08	0.0937	P	0.6
3	☐	50.000	52.700	10122127.31	1.2063	A	2.2
4	☐	125.000	128.604	23783459.38	2.8218	A	3.2
5	☐	250.000	266.992	47223600.01	5.7670	A	4.3
6	☐	500.000	509.159	91806669.41	10.9209	A	2.7
7	☐	1000.000	990.683	180674666.5	21.1690	A	1.8
8	☐			2436096.49	0.2900	A	5.7

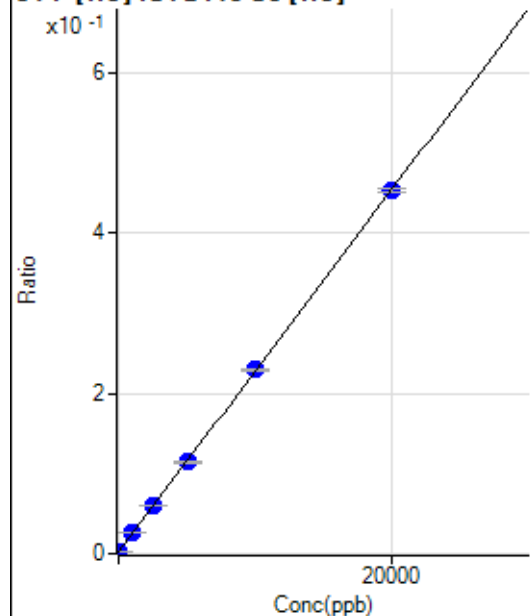
$$y = 0.0213 * x + 0.0847$$

$$R = 0.9997$$

$$DL = 0.07888$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-11.559	1163.97	0.0019	P	4.4
2	☐	0.000	11.559	1486.23	0.0024	P	13.3
3	☐	1000.000	1043.551	16297.91	0.0257	P	2.8
4	☐	2500.000	2554.919	38173.23	0.0597	P	0.7
5	☐	5000.000	4964.161	74922.51	0.1141	P	2.5
6	☐	10000.000	10092.455	146886.92	0.2297	P	1.2
7	☐	20000.000	19953.690	293401.75	0.4521	P	1.1
8	☐			1344.54	0.0021	P	6.9

$$y = 2.2552E-005 * x + 0.0021$$

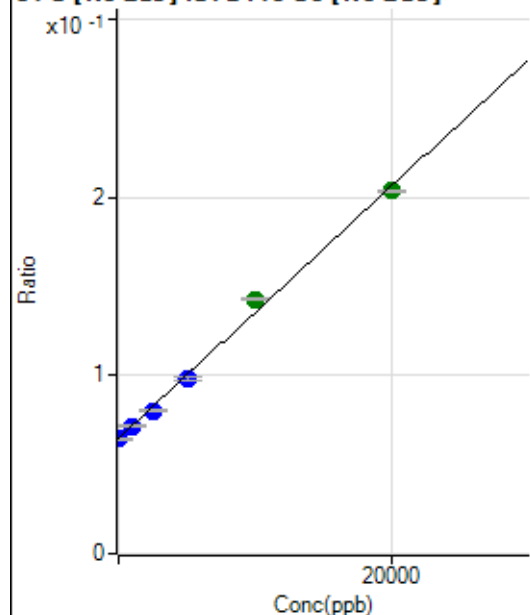
$$R = 1.0000$$

$$DL = 26.48$$

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	13.755	532858.08	0.0649	P	0.4
2	☐	0.000	-13.755	533489.19	0.0647	P	1.8
3	☐	1000.000	930.899	599280.09	0.0714	P	1.1
4	☐	2500.000	2159.163	675328.42	0.0801	P	1.2
5	☐	5000.000	4738.807	805899.74	0.0984	P	1.8
6	☐	10000.000	11026.027	1201515.94	0.1429	A	1.3
7	☐	20000.000	19598.344	1738097.95	0.2036	A	0.9
8	☐			456254.85	0.0543	P	0.8

$$y = 7.0828\text{E-}006 * x + 0.0648$$

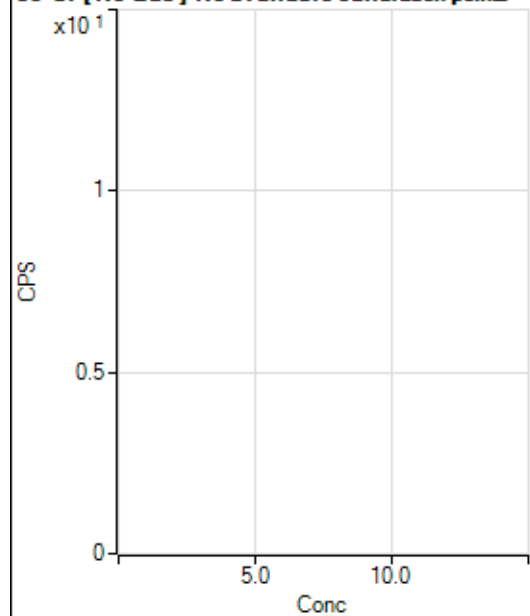
R = 0.9978

DL = 298.1

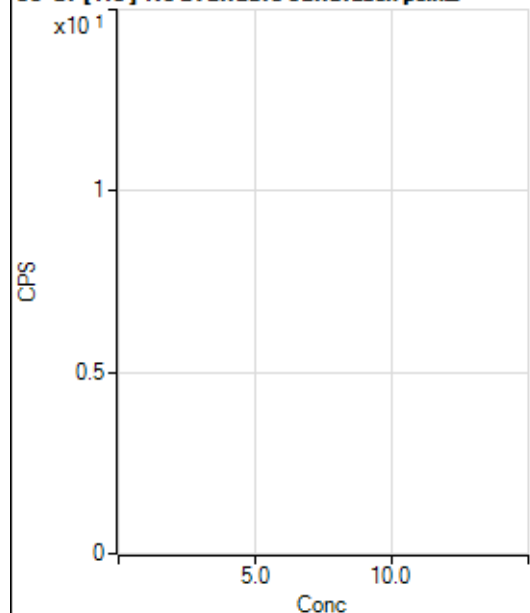
Weight: <None>

Min Conc: 0

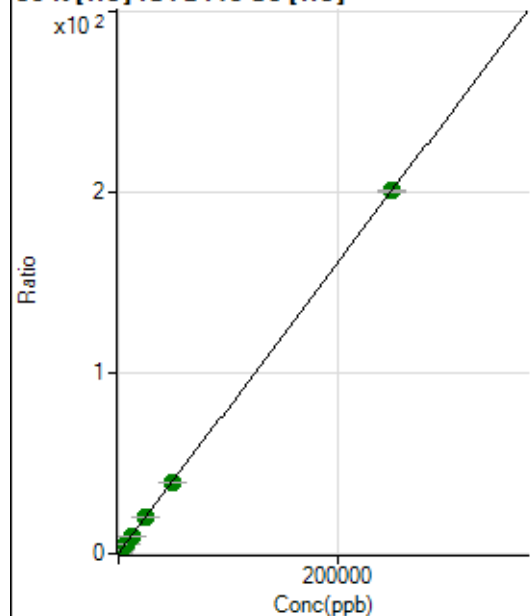
35 Cl [No Gas] No available calibration points



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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	98300.21	0.1573	P	0.9
2	☐	500.000	544.391	370365.96	0.5934	P	0.2
3	☐	2500.000	2534.499	1389807.94	2.1877	A	0.9
4	☐	6250.000	6268.394	3309190.11	5.1791	A	1.7
5	☐	12500.000	12222.002	6534526.62	9.9487	A	1.5
6	☐	25000.000	24795.624	12801812.09	20.0218	A	0.9
7	☐	50000.000	49219.621	25689835.12	39.5887	A	1.1
8	☐	250000.00	250189.52	128450484.8	200.5920	A	0.2

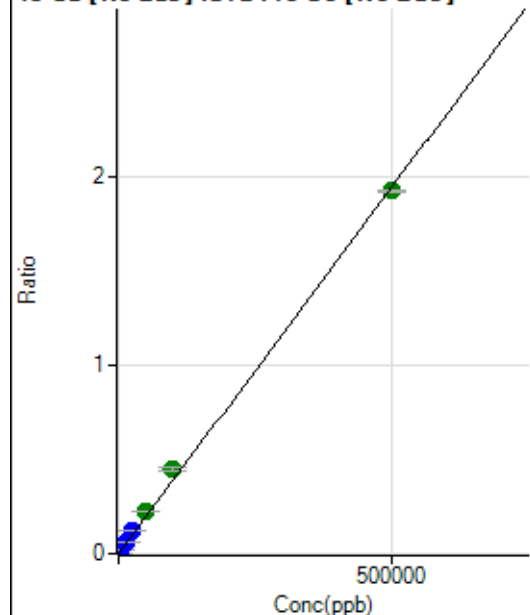
$$y = 8.0113\text{E-}004 * x + 0.1573$$

$$R = 1.0000$$

$$DL = 5.528$$

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	338.90	0.0000	P	7.1
2	☐	500.000	542.304	17716.26	0.0021	P	1.0
3	☐	5000.000	6017.251	196594.30	0.0234	P	2.4
4	☐	12500.000	15051.856	493444.91	0.0585	P	4.0
5	☐	25000.000	31163.257	992191.20	0.1212	P	4.5
6	☐	50000.000	58120.169	1899507.59	0.2260	A	2.0
7	☐	100000.00	116079.61	3851093.36	0.4512	A	3.3
8	☐	500000.00	495589.88	16173598.97	1.9264	A	0.5

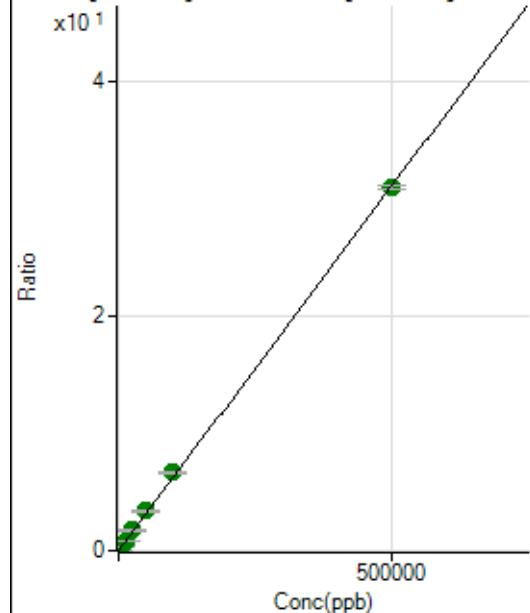
$$y = 3.8869\text{E-}006 * x + 4.1290\text{E-}005$$

$$R = 0.9994$$

$$DL = 2.263$$

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	14499.47	0.0018	P	1.0
2	☐	500.000	540.363	291120.27	0.0353	P	1.6
3	☐	5000.000	5402.990	2829007.14	0.3372	A	3.8
4	☐	12500.000	13312.595	6980307.97	0.8282	A	3.4
5	☐	25000.000	27901.766	14198945.28	1.7339	A	3.7
6	☐	50000.000	54093.880	28244365.04	3.3598	A	2.8
7	☐	100000.00	107622.04	57035817.25	6.6828	A	3.0
8	☐	500000.00	497896.72	259497108.5	30.9105	A	1.1

$$y = 6.2079\text{E-}005 * x + 0.0018$$

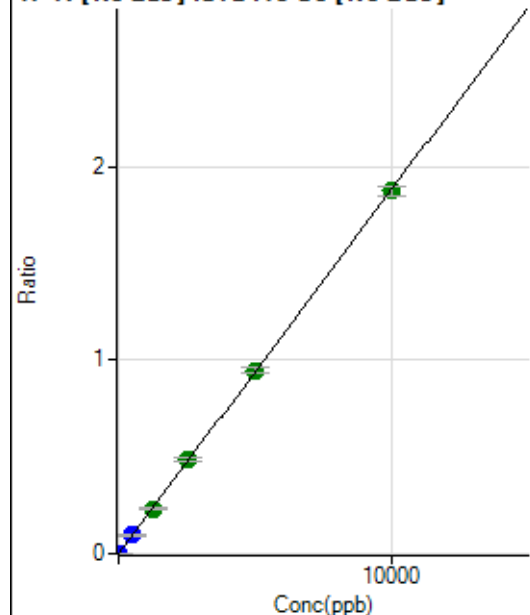
$$R = 0.9999$$

$$DL = 0.8444$$

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	180.56	0.0000	P	6.6
2	☐	5.000	5.036	7994.00	0.0010	P	6.6
3	☐	500.000	504.925	796954.92	0.0950	P	3.7
4	☐	1250.000	1227.372	1945744.42	0.2309	A	3.8
5	☐	2500.000	2585.842	3982913.98	0.4864	A	3.5
6	☐	5000.000	5029.902	7952507.29	0.9460	A	3.5
7	☐	10000.000	9966.171	15997729.70	1.8744	A	2.3
8	☐			3667.21	0.0004	P	3.6

$$y = 1.8808\text{E-}004 * x + 2.1994\text{E-}005$$

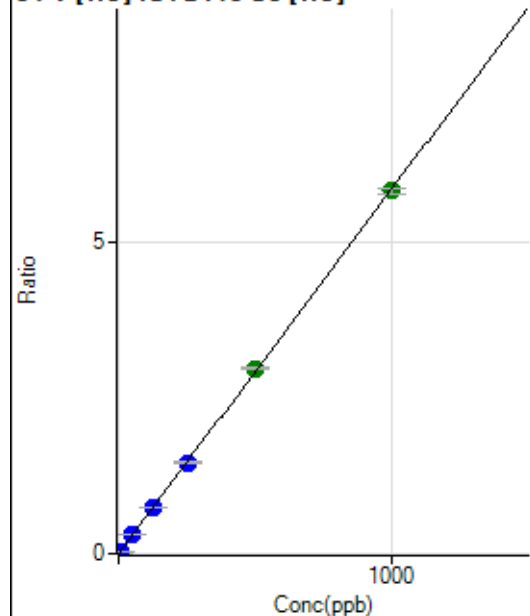
$$R = 0.9999$$

$$DL = 0.02321$$

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	48.89	0.0001	P	43.8
2	☐	5.000	5.233	19150.00	0.0307	P	1.8
3	☐	50.000	50.897	189137.38	0.2977	P	0.9
4	☐	125.000	126.884	474196.56	0.7421	P	0.9
5	☐	250.000	249.705	959068.24	1.4604	P	2.9
6	☐	500.000	507.762	1898742.87	2.9696	A	1.1
7	☐	1000.000	995.911	3779664.04	5.8244	A	1.3
8	☐			2878.08	0.0045	P	5.9

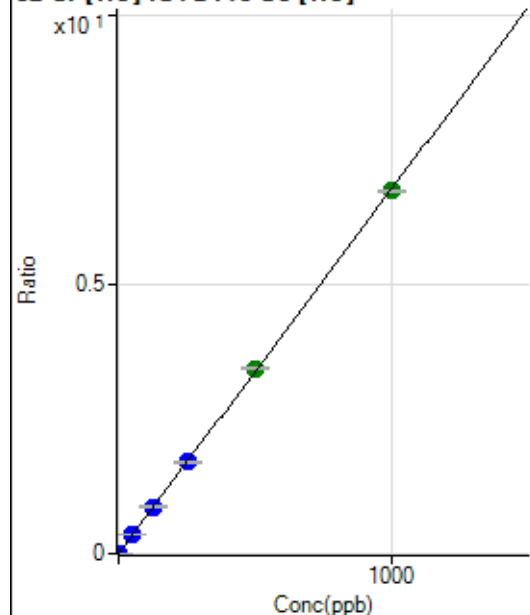
$$y = 0.0058 * x + 7.8326\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.01761$$

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	1443.42	0.0023	P	1.7
2	☐	2.000	2.161	10579.37	0.0170	P	2.1
3	☐	50.000	52.307	226569.09	0.3567	P	1.2
4	☐	125.000	128.764	558859.26	0.8746	P	0.7
5	☐	250.000	250.922	1117925.13	1.7022	P	2.2
6	☐	500.000	507.359	2199124.51	3.4394	A	0.8
7	☐	1000.000	995.504	4377976.98	6.7463	A	0.9
8	☐			13787.51	0.0215	P	1.5

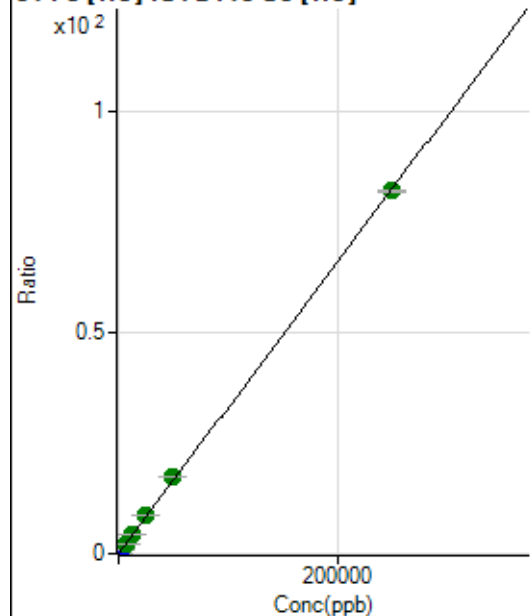
$$y = 0.0068 * x + 0.0023$$

$$R = 1.0000$$

$$DL = 0.01701$$

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	1728.55	0.0028	P	12.9
2	☐	50.000	57.234	13506.60	0.0216	P	3.6
3	☐	2500.000	2857.596	600238.71	0.9449	P	0.7
4	☐	6250.000	6783.854	1430863.21	2.2393	A	1.4
5	☐	12500.000	13178.496	2855673.41	4.3476	A	1.4
6	☐	25000.000	26658.222	5621327.64	8.7917	A	0.9
7	☐	50000.000	53060.774	11353790.89	17.4962	A	0.5
8	☐	250000.00	249171.17	52606237.30	82.1514	A	0.3

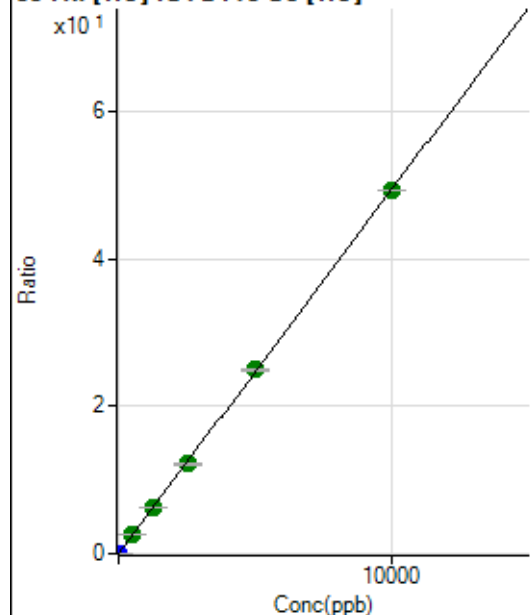
$$y = 3.2969E-004 * x + 0.0028$$

$$R = 0.9999$$

$$DL = 3.259$$

Weight: <None>

Min Conc: 0

⁵⁵Mn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	852.25	0.0014	P	8.4
2	☐	1.000	1.171	4459.60	0.0071	P	2.8
3	☐	500.000	510.018	1599976.43	2.5187	A	2.2
4	☐	1250.000	1268.719	4002176.78	6.2635	A	1.4
5	☐	2500.000	2472.708	8017106.55	12.2061	A	1.7
6	☐	5000.000	5067.392	15993059.76	25.0129	A	0.8
7	☐	10000.000	9970.286	31935725.36	49.2125	A	0.1
8	☐			28903.38	0.0451	P	1.4

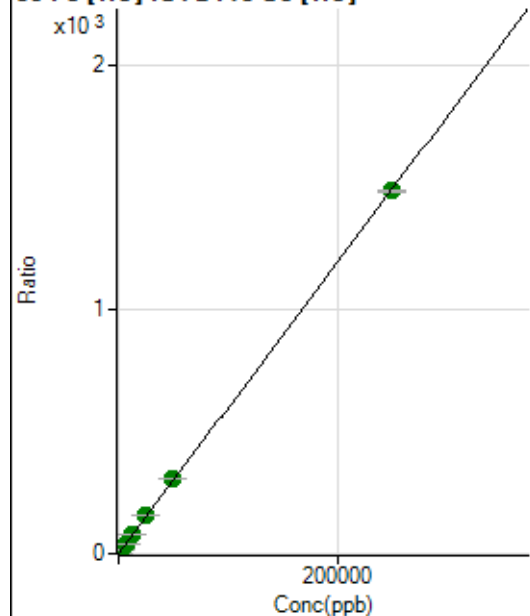
$$y = 0.0049 * x + 0.0014$$

$$R = 1.0000$$

$$DL = 0.06986$$

Weight: <None>

Min Conc: 0

⁵⁶Fe [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12012.39	0.0192	P	5.2
2	☐	50.000	56.367	221759.40	0.3553	P	1.2
3	☐	2500.000	2692.605	10211024.53	16.0736	A	0.6
4	☐	6250.000	6652.853	25358259.59	39.6861	A	1.2
5	☐	12500.000	12960.847	50769248.36	77.2967	A	1.9
6	☐	25000.000	26445.191	100829524.4	157.6956	A	1.1
7	☐	50000.000	51903.271	200840884.1	309.4863	A	0.9
8	☐	250000.00	249439.78	952384450.9	1487.274	A	0.7

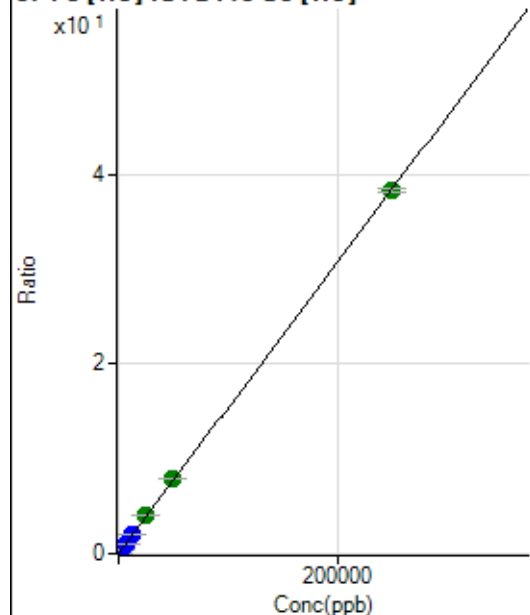
$$y = 0.0060 * x + 0.0192$$

$$R = 1.0000$$

$$DL = 0.5006$$

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	2483.58	0.0040	P	5.6
2	☐	50.000	58.897	8115.27	0.0130	P	2.1
3	☐	2500.000	2760.628	271374.92	0.4272	P	0.8
4	☐	6250.000	6783.784	667077.89	1.0440	P	0.5
5	☐	12500.000	13269.283	1338713.11	2.0382	P	2.0
6	☐	25000.000	26382.385	2588606.40	4.0485	A	0.9
7	☐	50000.000	51840.583	5159870.54	7.9514	A	0.6
8	☐	250000.00	249439.22	24489895.69	38.2444	A	1.1

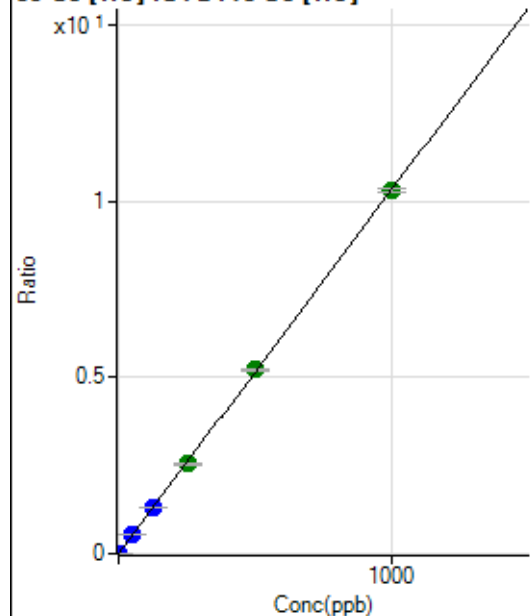
$$y = 1.5331\text{E-}004 * x + 0.0040$$

$$R = 1.0000$$

$$DL = 4.386$$

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	271.12	0.0004	P	1.2
2	☐	1.000	1.070	7161.76	0.0115	P	0.3
3	☐	50.000	52.167	342056.78	0.5385	P	1.1
4	☐	125.000	127.774	842336.58	1.3182	P	0.8
5	☐	250.000	246.531	1670370.55	2.5431	A	1.4
6	☐	500.000	506.054	3337424.84	5.2197	A	0.8
7	☐	1000.000	997.385	6675562.82	10.2871	A	1.0
8	☐			33631.02	0.0525	P	0.9

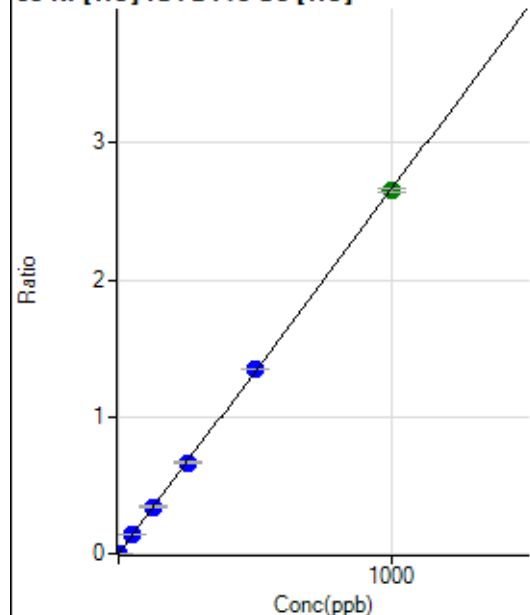
$$y = 0.0103 * x + 4.3372\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.001539$$

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	382.23	0.0006	P	6.2
2	☐	1.000	1.061	2142.40	0.0034	P	4.2
3	☐	50.000	52.837	89671.43	0.1412	P	2.0
4	☐	125.000	128.690	219117.80	0.3429	P	1.5
5	☐	250.000	250.275	437672.65	0.6663	P	1.4
6	☐	500.000	507.760	863977.71	1.3512	P	0.1
7	☐	1000.000	995.448	1718653.03	2.6485	A	1.0
8	☐			9003.88	0.0141	P	2.6

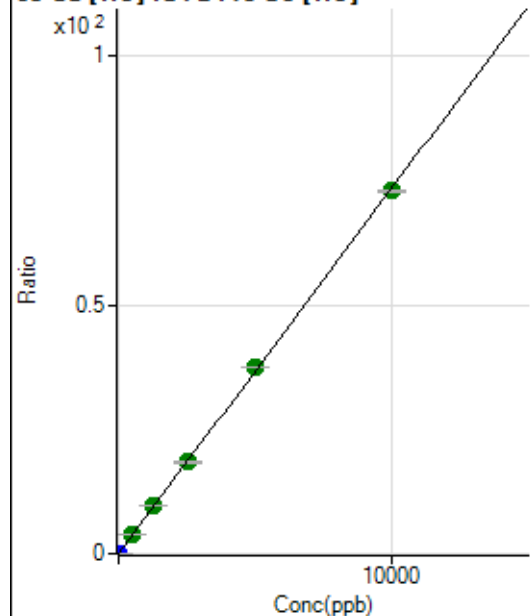
$$y = 0.0027 * x + 6.1140E-004$$

$$R = 1.0000$$

$$DL = 0.04271$$

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	2726.94	0.0044	P	2.3
2	☐	2.000	2.157	12602.07	0.0202	P	0.7
3	☐	500.000	529.108	2469173.47	3.8869	A	0.4
4	☐	1250.000	1303.502	6114342.82	9.5693	A	1.5
5	☐	2500.000	2510.660	12103099.54	18.4272	A	1.7
6	☐	5000.000	5104.726	23953016.03	37.4621	A	0.3
7	☐	10000.000	9936.829	47319838.74	72.9194	A	0.2
8	☐			14221.29	0.0222	P	3.8

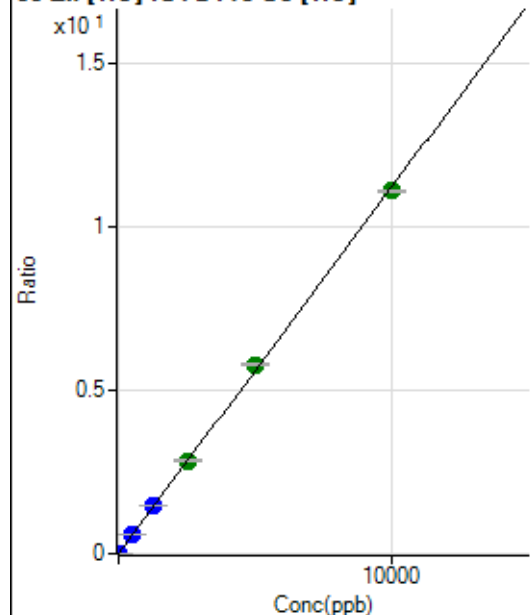
$$y = 0.0073 * x + 0.0044$$

$$R = 0.9999$$

$$DL = 0.0403$$

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	1271.18	0.0020	P	5.3
2	☐	2.000	2.393	2944.77	0.0047	P	3.6
3	☐	500.000	533.593	381703.41	0.6009	P	0.2
4	☐	1250.000	1318.346	946678.17	1.4816	P	0.7
5	☐	2500.000	2528.464	1864938.43	2.8396	A	2.2
6	☐	5000.000	5160.593	3704342.27	5.7935	A	0.4
7	☐	10000.000	9902.364	7212765.45	11.1150	A	0.8
8	☐			8299.04	0.0130	P	4.1

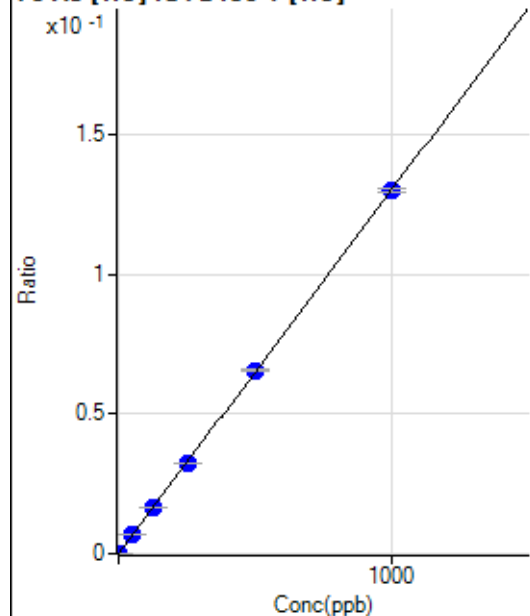
$$y = 0.0011 * x + 0.0020$$

$$R = 0.9998$$

$$DL = 0.2883$$

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	6.17	0.0000	P	62.0
2	☐	1.000	1.171	546.31	0.0002	P	3.3
3	☐	50.000	50.818	23885.86	0.0066	P	1.5
4	☐	125.000	125.598	59372.11	0.0163	P	0.6
5	☐	250.000	248.389	119960.11	0.0323	P	1.7
6	☐	500.000	504.982	238880.63	0.0657	P	1.0
7	☐	1000.000	997.796	482030.78	0.1299	P	0.9
8	☐			427.79	0.0001	P	11.5

$$y = 1.3016E-004 * x + 1.7320E-006$$

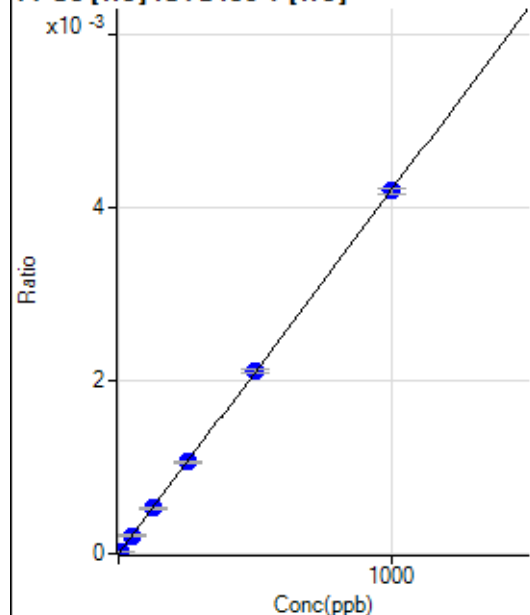
$$R = 1.0000$$

$$DL = 0.02476$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.041	60.00	0.0000	P	16.3
3	☐	50.000	48.828	740.03	0.0002	P	6.5
4	☐	125.000	125.983	1920.14	0.0005	P	3.9
5	☐	250.000	252.213	3929.45	0.0011	P	2.2
6	☐	500.000	502.883	7670.94	0.0021	P	1.5
7	☐	1000.000	997.946	15546.02	0.0042	P	1.4
8	☐			10.00	0.0000	P	32.8

$$y = 4.1973\text{E-}006 * x + 0.0000\text{E+}000$$

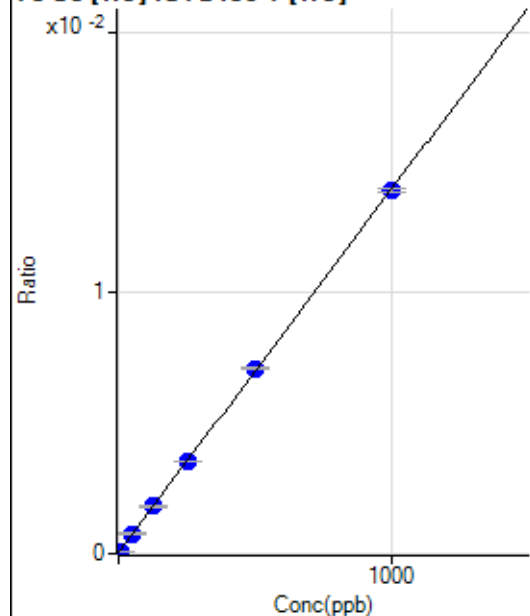
$$R = 1.0000$$

$$DL = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	151.24	0.0000	P	18.2
2	☐	5.000	4.411	368.53	0.0001	P	12.2
3	☐	50.000	51.518	2745.33	0.0008	P	4.1
4	☐	125.000	128.467	6656.46	0.0018	P	3.2
5	☐	250.000	250.994	13135.47	0.0035	P	1.7
6	☐	500.000	507.602	25863.26	0.0071	P	0.6
7	☐	1000.000	995.444	51644.92	0.0139	P	0.9
8	☐			200.00	0.0001	P	8.4

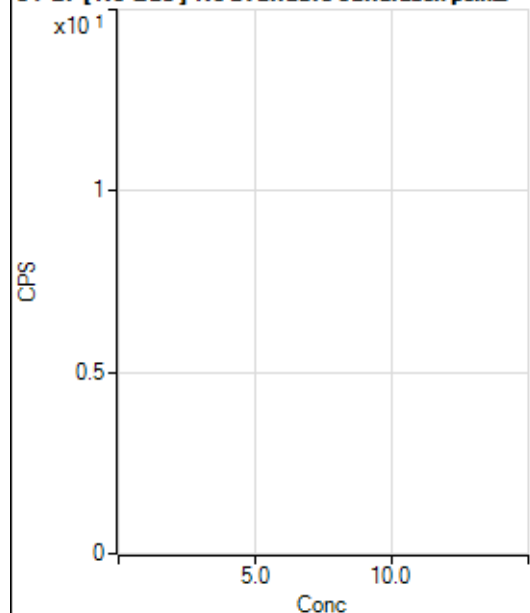
$$y = 1.3936\text{E-}005 * x + 4.2592\text{E-}005$$

$$R = 1.0000$$

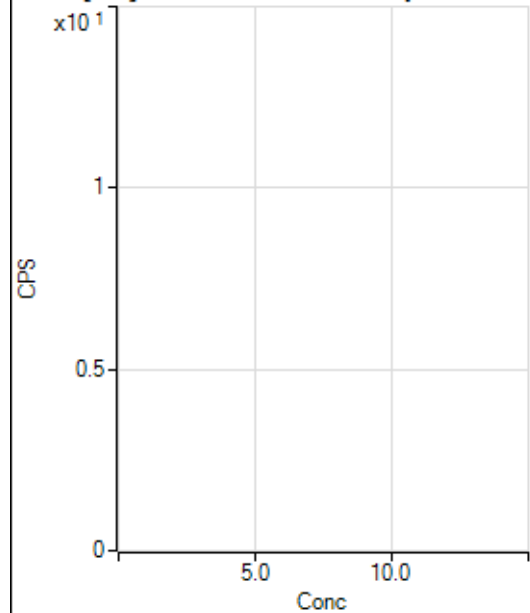
$$DL = 1.672$$

Weight: <None>

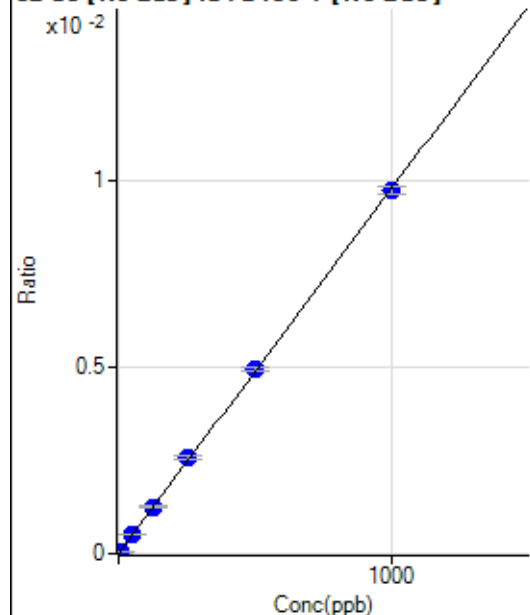
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14360.13		P	2.8
2	☐			14777.17		P	3.1
3	☐			14576.98		P	1.6
4	☐			14476.94		P	1.6
5	☐			14571.48		P	4.4
6	☐			14988.58		P	3.9
7	☐			15458.47		P	0.7
8	☐			16164.79		P	2.7

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			93.43		P	6.2
2	☐			70.07		P	28.6
3	☐			43.38		P	26.6
4	☐			56.72		P	27.0
5	☐			83.42		P	50.0
6	☐			90.09		P	0.0
7	☐			73.41		P	15.7
8	☐			90.09		P	67.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.29	0.0000	P	155.
2	☐	5.000	5.547	993.19	0.0001	P	6.0
3	☐	50.000	51.408	8863.78	0.0005	P	3.0
4	☐	125.000	127.751	22165.33	0.0012	P	2.3
5	☐	250.000	262.804	44656.70	0.0026	P	3.0
6	☐	500.000	505.101	88067.15	0.0049	P	1.5
7	☐	1000.000	993.831	175939.73	0.0097	P	2.0
8	☐			278.81	0.0000	P	20.5

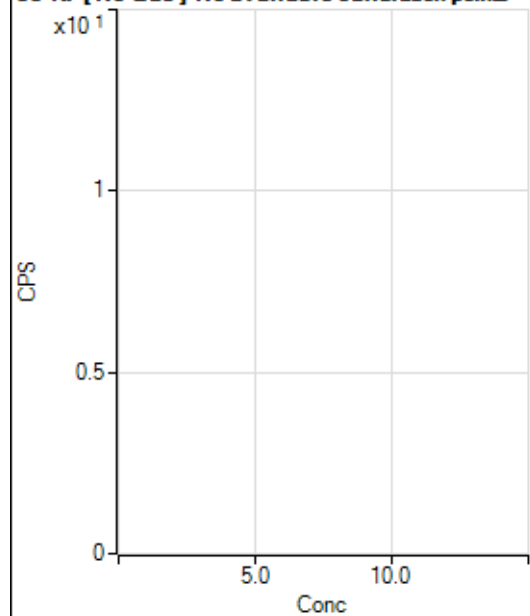
$$y = 9.7580E-006 * x + 3.1726E-006$$

$$R = 0.9999$$

$$DL = 1.513$$

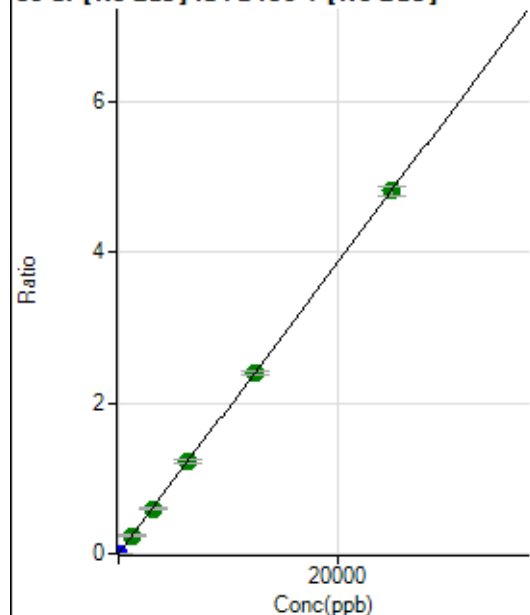
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			450.01		P	15.5
2	☐			423.34		P	5.5
3	☐			484.46		P	4.2
4	☐			458.90		P	5.5
5	☐			422.23		P	13.4
6	☐			485.57		P	2.6
7	☐			450.01		P	8.1
8	☐			450.01		P	5.1

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	777.82	0.0000	P	1.8
2	☐	1.000	1.044	4284.08	0.0002	P	6.9
3	☐	1250.000	1250.243	4233485.64	0.2411	A	3.2
4	☐	3125.000	3094.834	10584611.78	0.5968	A	3.8
5	☐	6250.000	6406.026	21482084.16	1.2353	A	4.0
6	☐	12500.000	12443.809	42848455.47	2.3996	A	2.7
7	☐	25000.000	24992.847	87405810.98	4.8194	A	2.6
8	☐			31450.85	0.0018	P	3.6

$$y = 1.9283E-004 * x + 4.5711E-005$$

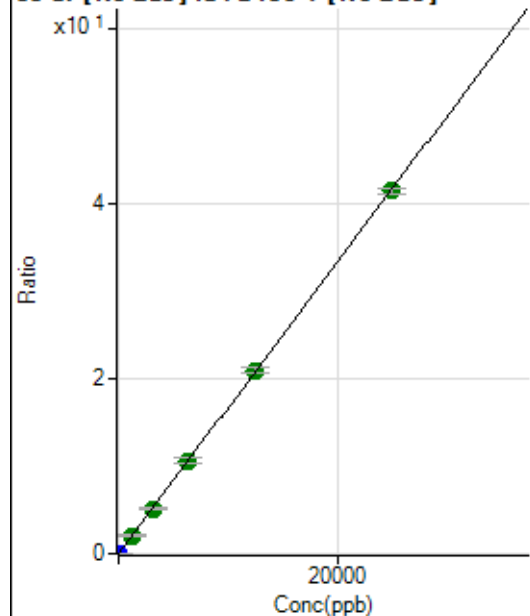
$$R = 1.0000$$

$$DL = 0.01311$$

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	391.68	0.0000	P	6.3
2	☐	1.000	1.058	30972.20	0.0018	P	1.5
3	☐	1250.000	1251.340	36619975.47	2.0856	A	2.5
4	☐	3125.000	3079.775	91036512.45	5.1330	A	2.9
5	☐	6250.000	6403.662	185592915.2	10.6729	A	4.4
6	☐	12500.000	12596.459	374883755.6	20.9943	A	2.9
7	☐	25000.000	24918.941	753239244.6	41.5320	A	1.9
8	☐			273224.50	0.0160	P	0.9

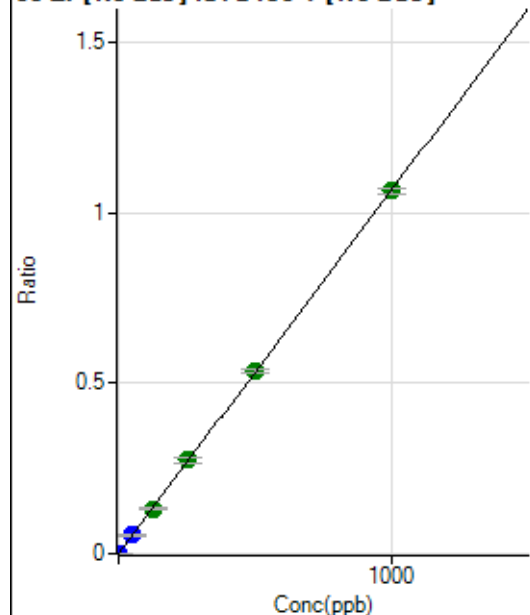
$$y = 0.0017 * x + 2.3003E-005$$

$$R = 1.0000$$

$$DL = 0.002627$$

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	766.71	0.0000	P	5.0
2	☐	1.000	0.936	18075.45	0.0010	P	3.9
3	☐	50.000	50.643	948950.25	0.0541	P	3.7
4	☐	125.000	124.011	2346215.92	0.1323	A	4.1
5	☐	250.000	257.093	4768045.03	0.2742	A	4.9
6	☐	500.000	500.232	9526725.47	0.5335	A	2.2
7	☐	1000.000	998.202	19306959.98	1.0645	A	1.9
8	☐			10373.34	0.0006	P	3.0

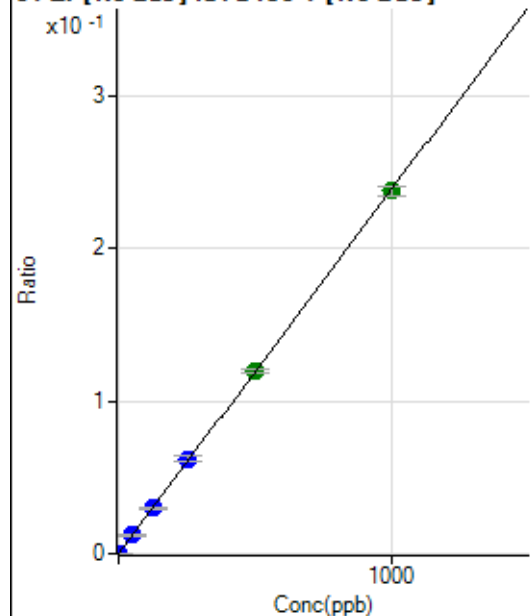
$$y = 0.0011 * x + 4.5028E-005$$

$$R = 1.0000$$

$$DL = 0.006336$$

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	166.67	0.0000	P	16.6
2	☐	1.000	0.921	3978.42	0.0002	P	2.5
3	☐	50.000	50.621	212266.87	0.0121	P	3.6
4	☐	125.000	125.005	529266.36	0.0298	P	3.2
5	☐	250.000	260.776	1082343.05	0.0622	P	5.1
6	☐	500.000	502.205	2140314.74	0.1199	A	2.3
7	☐	1000.000	996.172	4311901.83	0.2377	A	2.3
8	☐			2222.46	0.0001	P	12.5

$$y = 2.3865E-004 * x + 9.7796E-006$$

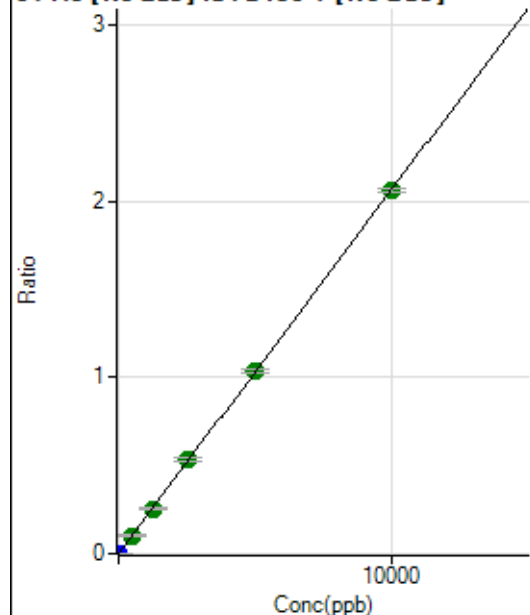
$$R = 0.9999$$

$$DL = 0.02039$$

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	316.68	0.0000	P	10.5
2	☐	5.000	5.952	21649.93	0.0012	P	1.4
3	☐	500.000	500.113	1815866.99	0.1034	A	4.7
4	☐	1250.000	1232.283	4519954.92	0.2549	A	2.7
5	☐	2500.000	2575.961	9263589.96	0.5327	A	4.7
6	☐	5000.000	5025.840	18559418.99	1.0394	A	2.0
7	☐	10000.000	9970.298	37394471.67	2.0619	A	1.2
8	☐			12730.87	0.0007	P	1.2

$$y = 2.0680E-004 * x + 1.8621E-005$$

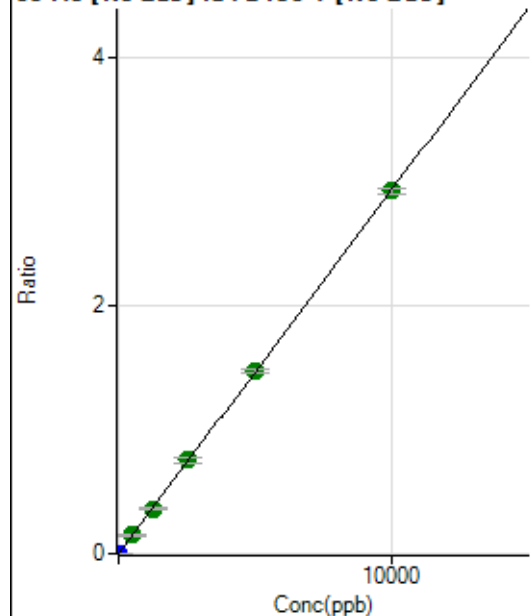
$$R = 1.0000$$

$$DL = 0.02843$$

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	58.34	0.0000	P	78.1
2	☐	5.000	5.283	26900.38	0.0016	P	2.6
3	☐	500.000	506.072	2605808.48	0.1484	A	2.6
4	☐	1250.000	1235.993	6428295.15	0.3625	A	3.1
5	☐	2500.000	2571.706	13113344.82	0.7542	A	5.0
6	☐	5000.000	5007.888	26223833.05	1.4686	A	2.0
7	☐	10000.000	9979.576	53075792.16	2.9265	A	1.6
8	☐			15222.19	0.0009	P	3.0

$$y = 2.9325E-004 * x + 3.4057E-006$$

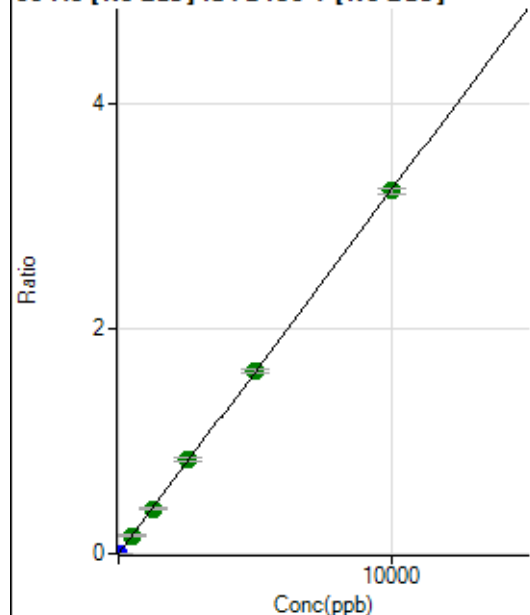
$$R = 1.0000$$

$$DL = 0.02722$$

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	116.67	0.0000	P	6.9
2	☐	5.000	5.299	29750.22	0.0017	P	0.6
3	☐	500.000	500.713	2837144.57	0.1616	A	3.6
4	☐	1250.000	1232.947	7057078.59	0.3979	A	3.7
5	☐	2500.000	2582.558	14494102.93	0.8335	A	4.1
6	☐	5000.000	5016.097	28907647.87	1.6188	A	2.1
7	☐	10000.000	9973.408	58375123.53	3.2187	A	1.5
8	☐			23859.02	0.0014	P	1.8

$$y = 3.2273\text{E-}004 * x + 6.8550\text{E-}006$$

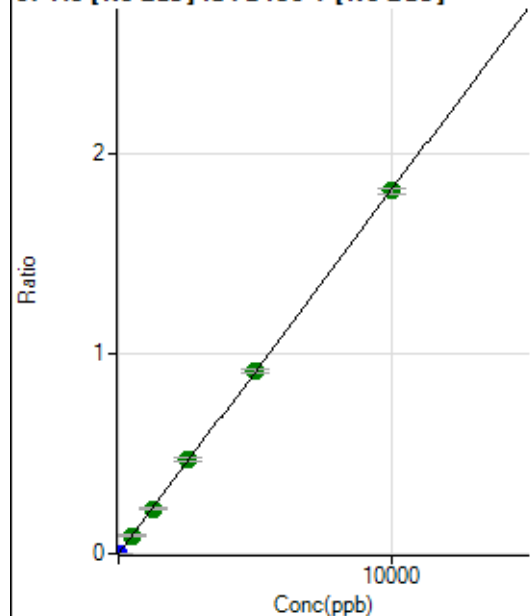
$$R = 1.0000$$

$$DL = 0.00437$$

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	27.78	0.0000	P	15.7
2	☐	5.000	5.255	16601.49	0.0010	P	3.6
3	☐	500.000	494.904	1581247.35	0.0901	A	3.0
4	☐	1250.000	1240.242	4002741.76	0.2257	A	3.3
5	☐	2500.000	2574.972	8149251.14	0.4686	A	3.7
6	☐	5000.000	5022.067	16319412.52	0.9139	A	2.4
7	☐	10000.000	9971.698	32909743.79	1.8146	A	1.4
8	☐			9105.87	0.0005	P	2.3

$$y = 1.8197\text{E-}004 * x + 1.6295\text{E-}006$$

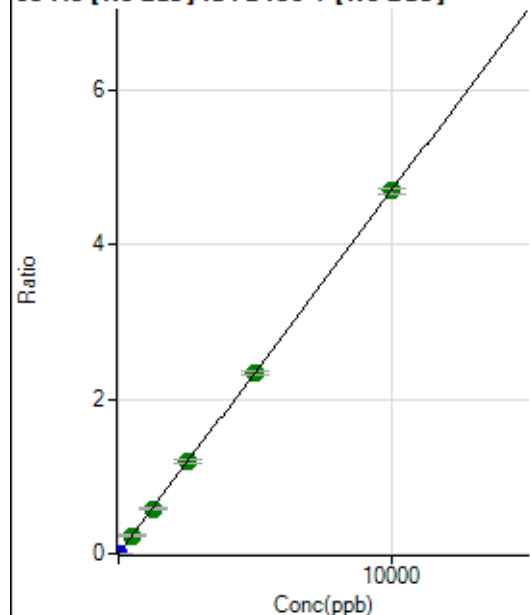
$$R = 1.0000$$

$$DL = 0.004207$$

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	130.56	0.0000	P	9.2
2	☐	5.000	5.215	42548.81	0.0025	P	3.6
3	☐	500.000	497.845	4101586.59	0.2336	A	3.4
4	☐	1250.000	1226.369	10206255.78	0.5755	A	3.2
5	☐	2500.000	2556.489	20861079.11	1.1996	A	4.3
6	☐	5000.000	4990.374	41815998.85	2.3417	A	2.1
7	☐	10000.000	9993.752	85050582.46	4.6895	A	1.8
8	☐			23249.59	0.0014	P	2.0

$$y = 4.6925E-004 * x + 7.6690E-006$$

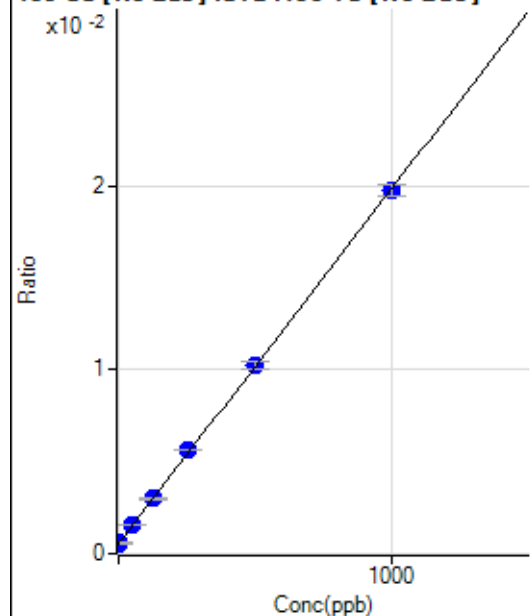
$$R = 1.0000$$

$$DL = 0.004491$$

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	7591.09	0.0005	P	4.5
2	☐	1.000	2.144	8249.76	0.0006	P	6.1
3	☐	50.000	52.842	22387.17	0.0016	P	1.4
4	☐	125.000	127.745	43864.11	0.0030	P	3.8
5	☐	250.000	264.335	79791.46	0.0056	P	0.9
6	☐	500.000	502.784	151140.70	0.0102	P	3.3
7	☐	1000.000	994.538	292096.58	0.0197	P	3.0
8	☐			8127.49	0.0006	P	2.7

$$y = 1.9275E-005 * x + 5.4618E-004$$

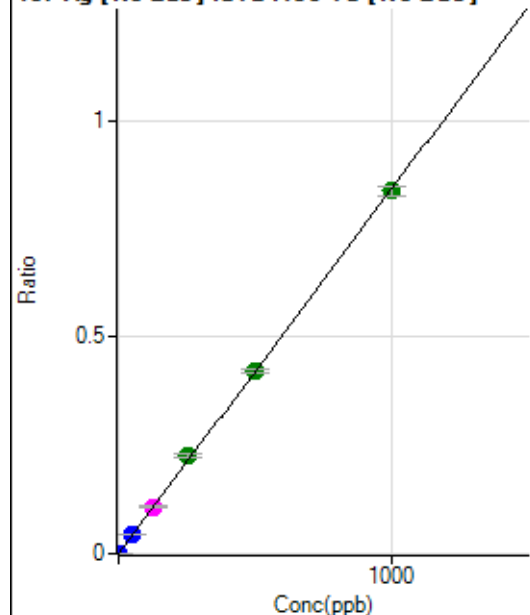
$$R = 0.9999$$

$$DL = 3.812$$

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	105.56	0.0000	P	27.8
2	☐	1.000	0.865	10354.02	0.0007	P	13.3
3	☐	50.000	51.717	623304.18	0.0436	P	4.7
4	☐	125.000	128.344	1576062.83	0.1081	M	4.2
5	☐	250.000	268.037	3193086.07	0.2258	A	3.9
6	☐	500.000	499.614	6212788.68	0.4208	A	2.5
7	☐	1000.000	995.180	12418319.11	0.8382	A	2.8
8	☐			7821.74	0.0006	P	8.3

$$y = 8.4226E-004 * x + 7.5978E-006$$

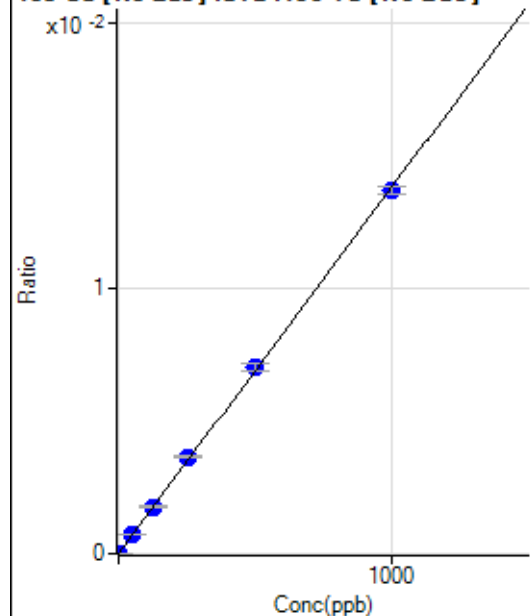
$$R = 0.9998$$

$$DL = 0.007534$$

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	37.50	0.0000	P	52.8
2	☐	1.000	1.049	241.67	0.0000	P	16.5
3	☐	50.000	53.394	10574.79	0.0007	P	2.3
4	☐	125.000	127.176	25610.24	0.0018	P	3.9
5	☐	250.000	264.782	51687.61	0.0037	P	3.2
6	☐	500.000	509.739	103825.13	0.0070	P	3.5
7	☐	1000.000	990.993	202529.91	0.0137	P	2.2
8	☐			138.89	0.0000	P	10.0

$$y = 1.3791E-005 * x + 2.7123E-006$$

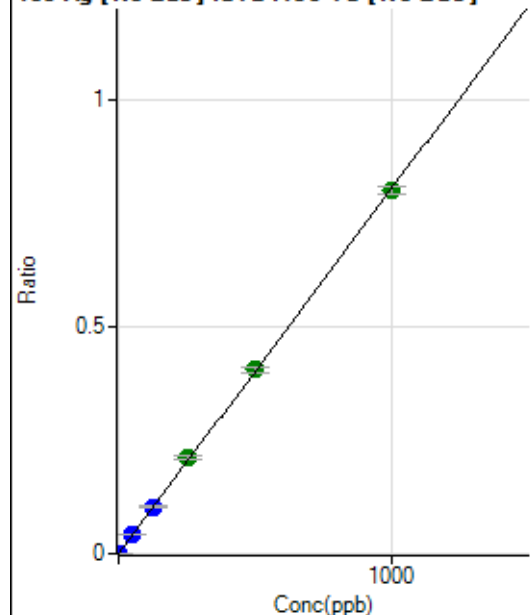
$$R = 0.9998$$

$$DL = 0.3113$$

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	36.11	0.0000	P	52.5
2	☐	1.000	0.844	9589.57	0.0007	P	11.0
3	☐	50.000	51.820	596705.97	0.0417	P	4.9
4	☐	125.000	128.568	1508490.87	0.1035	P	4.4
5	☐	250.000	264.049	3005657.23	0.2125	A	3.5
6	☐	500.000	503.414	5981460.46	0.4051	A	2.5
7	☐	1000.000	994.244	11855085.94	0.8002	A	2.0
8	☐			7560.50	0.0006	P	8.5

$$y = 8.0479\text{E-}004 * x + 2.5905\text{E-}006$$

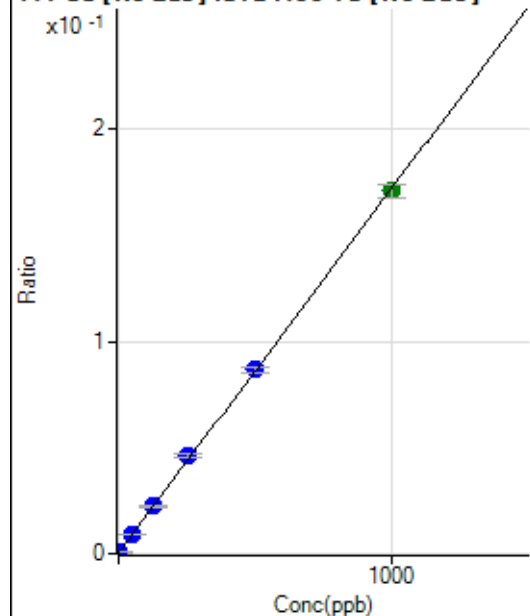
$$R = 0.9999$$

$$DL = 0.005068$$

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	5306.96	0.0004	P	4.0
2	☐	1.000	1.188	8225.38	0.0006	P	3.8
3	☐	50.000	52.275	133787.11	0.0094	P	2.6
4	☐	125.000	127.356	324136.49	0.0222	P	4.3
5	☐	250.000	266.504	652139.80	0.0461	P	2.7
6	☐	500.000	502.844	1279391.60	0.0867	P	2.7
7	☐	1000.000	994.044	2532421.05	0.1709	A	3.4
8	☐			6342.05	0.0005	P	2.7

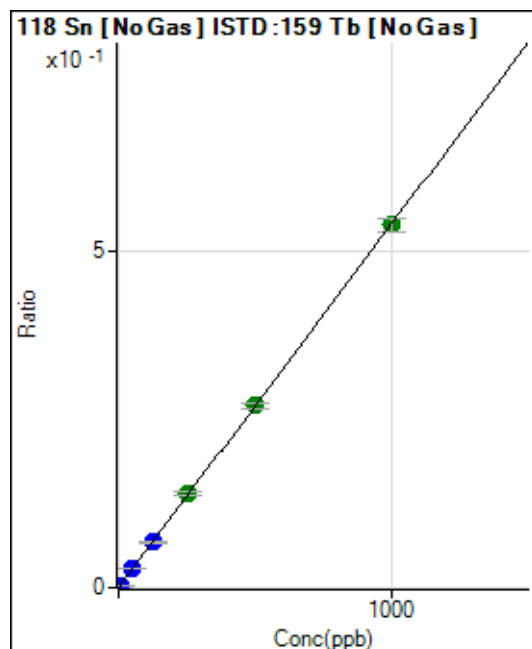
$$y = 1.7158\text{E-}004 * x + 3.8182\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.2672$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5237.25	0.0004	P	5.6
2	☐	5.000	5.150	44444.18	0.0032	P	2.4
3	☐	50.000	50.983	400061.12	0.0280	P	2.8
4	☐	125.000	124.578	988154.99	0.0678	P	4.5
5	☐	250.000	260.033	1995357.84	0.1411	A	3.3
6	☐	500.000	499.754	3997749.05	0.2708	A	3.4
7	☐	1000.000	997.618	8002343.76	0.5402	A	3.6
8	☐			10423.48	0.0008	P	2.5

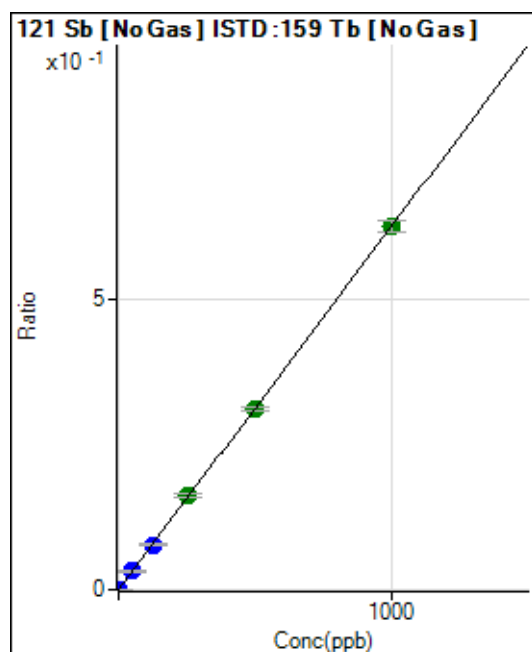
$$y = 5.4107\text{E-}004 * x + 3.7656\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.1177$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	102.78	0.0000	P	29.3
2	☐	2.000	2.053	18092.34	0.0013	P	2.9
3	☐	50.000	50.411	449883.18	0.0314	P	2.5
4	☐	125.000	124.015	1127580.55	0.0773	P	4.4
5	☐	250.000	259.139	2285804.91	0.1616	A	2.6
6	☐	500.000	498.593	4590397.63	0.3109	A	2.7
7	☐	1000.000	998.521	9225382.07	0.6227	A	3.1
8	☐			10990.55	0.0008	P	0.9

$$y = 6.2361\text{E-}004 * x + 7.3647\text{E-}006$$

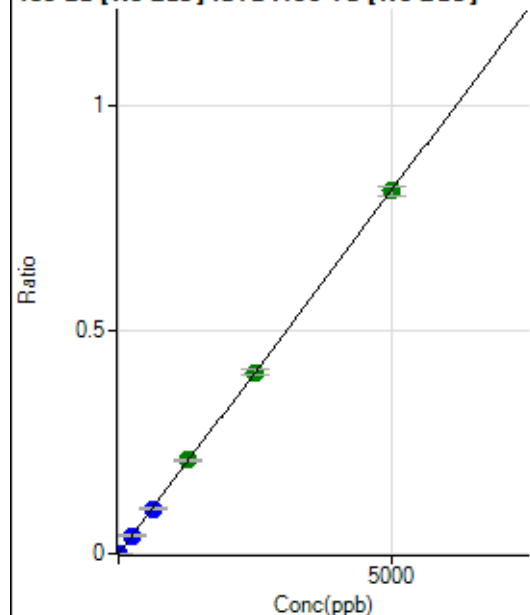
$$R = 0.9999$$

$$DL = 0.01037$$

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	80.56	0.0000	P	20.5
2	☐	10.000	10.011	22918.98	0.0016	P	1.1
3	☐	250.000	249.600	579908.96	0.0405	P	1.6
4	☐	625.000	615.665	1457467.92	0.1000	P	3.3
5	☐	1250.000	1285.957	2953101.37	0.2088	A	3.5
6	☐	2500.000	2495.172	5980981.69	0.4051	A	3.0
7	☐	5000.000	4994.612	12014767.81	0.8109	A	2.3
8	☐			6710.09	0.0005	P	2.2

$$y = 1.6236E-004 * x + 5.7849E-006$$

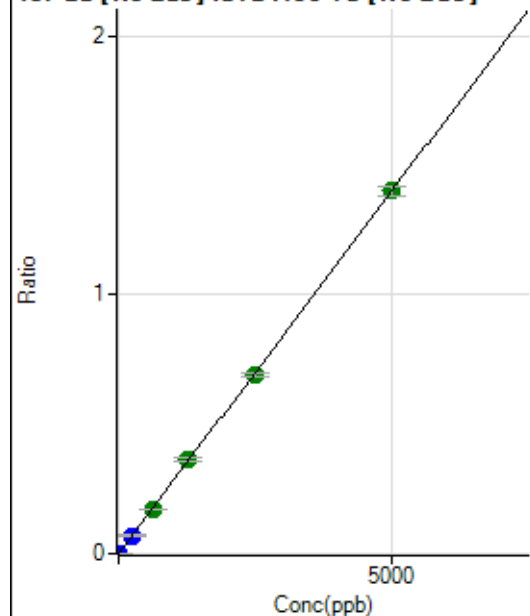
$$R = 1.0000$$

$$DL = 0.02192$$

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	116.67	0.0000	P	36.5
2	☐	10.000	9.996	39399.55	0.0028	P	2.2
3	☐	250.000	250.658	1003133.40	0.0701	P	2.5
4	☐	625.000	613.942	2503592.76	0.1717	A	3.0
5	☐	1250.000	1295.751	5125750.46	0.3624	A	3.4
6	☐	2500.000	2465.208	10179576.88	0.6895	A	2.1
7	☐	5000.000	5007.308	20748381.71	1.4005	A	2.7
8	☐			11491.02	0.0008	P	0.3

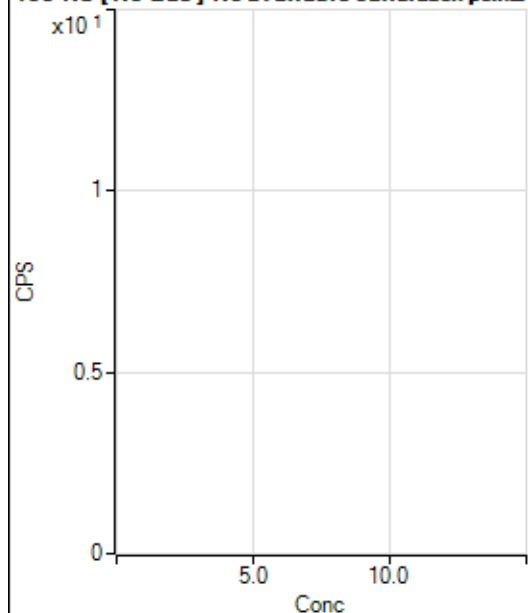
$$y = 2.7968E-004 * x + 8.3527E-006$$

$$R = 0.9999$$

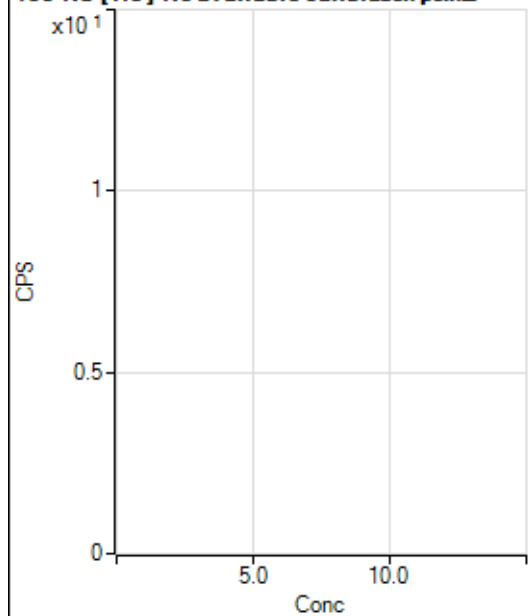
$$DL = 0.03268$$

Weight: <None>

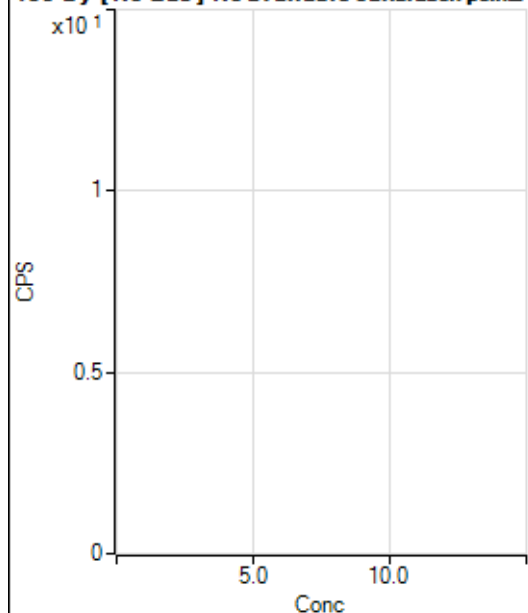
Min Conc: 0

150 Nd [No Gas] No available calibration points

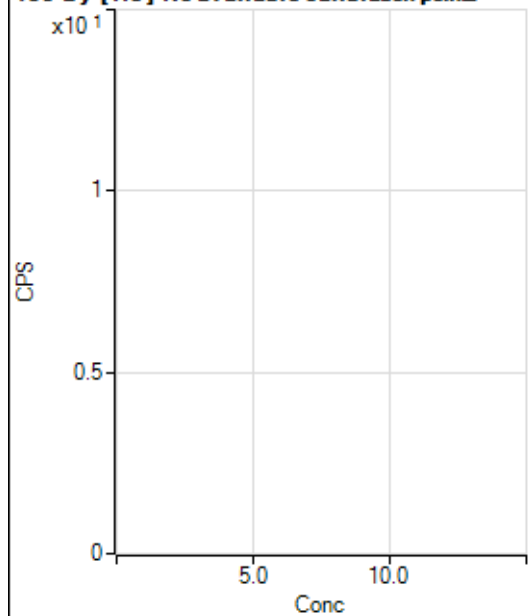
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			13.33		P	50.0
3	☐			51.11		P	15.1
4	☐			162.23		P	4.7
5	☐			295.57		P	6.9
6	☐			644.47		P	8.4
7	☐			1175.63		P	6.5
8	☐			95.56		P	28.2

150 Nd [He] No available calibration points

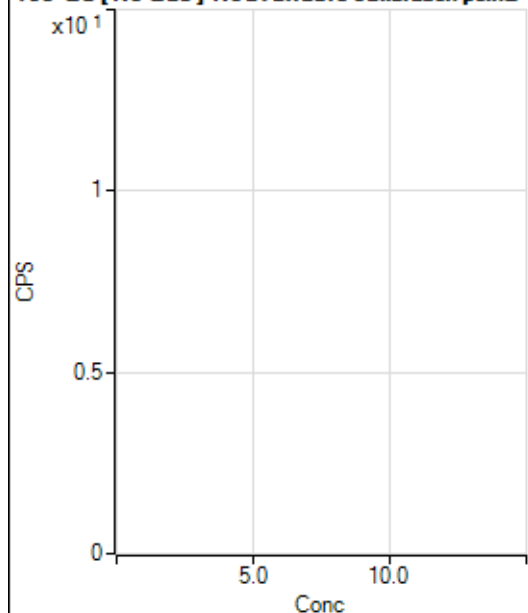
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			4.44		P	114.
3	☐			16.67		P	20.0
4	☐			46.66		P	12.4
5	☐			73.33		P	16.4
6	☐			144.45		P	5.8
7	☐			282.23		P	18.0
8	☐			66.66		P	48.2

156 Dy [No Gas] No available calibration points

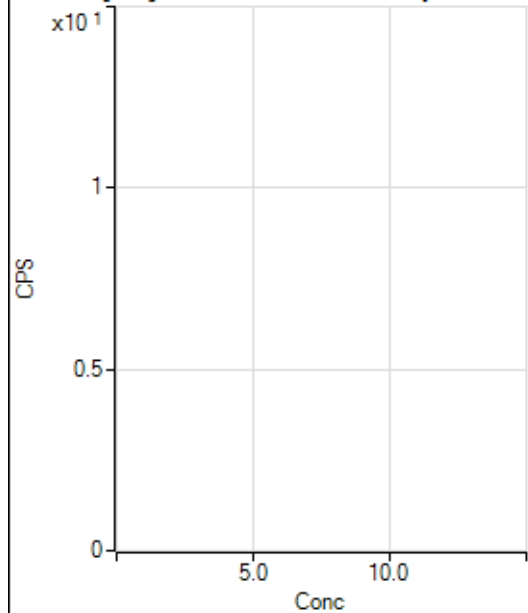
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	NaN
2	☐			25.00		P	88.2
3	☐			36.11		P	48.0
4	☐			72.23		P	37.1
5	☐			177.78		P	24.1
6	☐			294.46		P	15.6
7	☐			636.14		P	24.3
8	☐			1213.98		P	11.5

156 Dy [He] No available calibration points

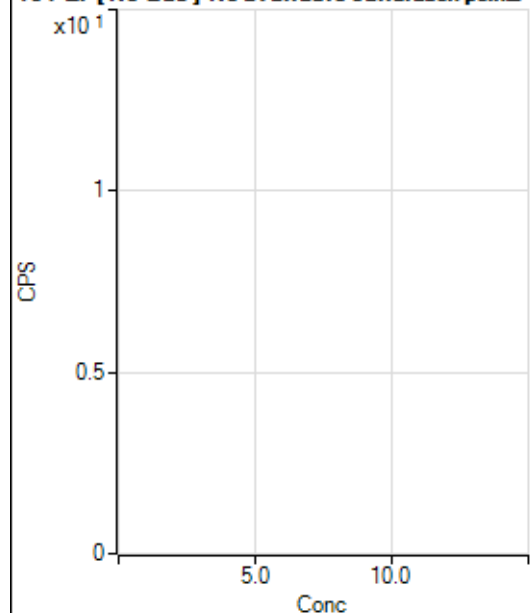
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.22		P	41.7
2	☐			16.67		P	60.0
3	☐			67.78		P	15.8
4	☐			221.11		P	8.3
5	☐			372.23		P	12.2
6	☐			667.80		P	1.3
7	☐			1490.09		P	4.2
8	☐			1090.06		P	6.9

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

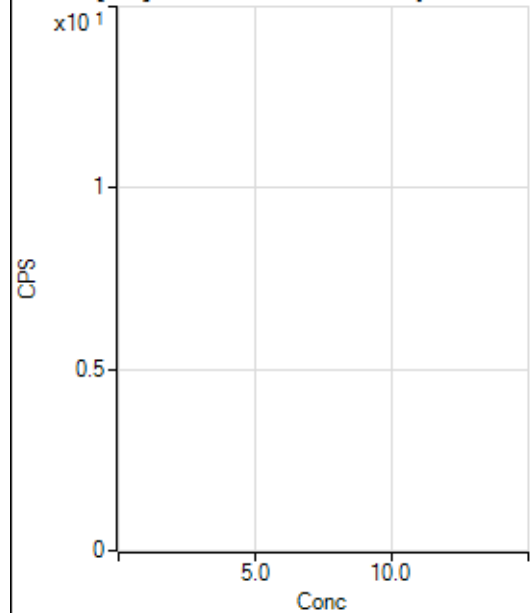
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			97.23		P	50.2
2	☐			125.00		P	35.3
3	☐			133.34		P	6.3
4	☐			141.67		P	50.3
5	☐			238.90		P	26.2
6	☐			269.46		P	3.6
7	☐			425.02		P	8.5
8	☐			816.71		P	11.8

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1223.40		P	1.7
2	☐			1180.06		P	4.3
3	☐			1227.85		P	1.1
4	☐			1242.29		P	4.1
5	☐			1273.40		P	8.2
6	☐			1305.63		P	3.6
7	☐			1472.31		P	4.2
8	☐			1812.36		P	5.2

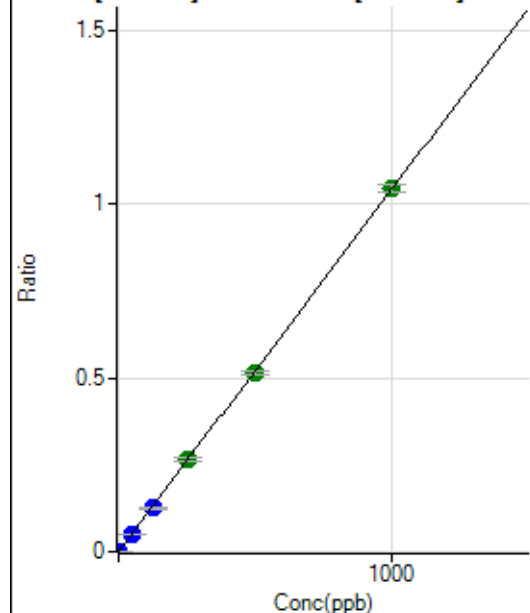
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			83.34		P	36.1
2	☐			66.67		P	12.5
3	☐			102.78		P	48.9
4	☐			108.34		P	42.8
5	☐			150.00		P	25.5
6	☐			127.78		P	41.9
7	☐			266.68		P	3.1
8	☐			91.67		P	9.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.44		P	22.9
2	☐			35.56		P	48.1
3	☐			41.11		P	40.0
4	☐			45.56		P	21.1
5	☐			67.78		P	34.5
6	☐			96.66		P	6.0
7	☐			157.78		P	12.0
8	☐			57.78		P	43.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	108.34	0.0000	P	26.4
2	☐	1.000	0.962	9164.38	0.0010	P	3.4
3	☐	50.000	47.918	460000.42	0.0499	P	2.9
4	☐	125.000	119.600	1156781.87	0.1246	P	3.2
5	☐	250.000	254.810	2392464.44	0.2654	A	2.9
6	☐	500.000	495.080	4759428.58	0.5157	A	1.8
7	☐	1000.000	1002.037	9560596.65	1.0437	A	2.1
8	☐			3639.47	0.0005	P	1.9

$$y = 0.0010 * x + 1.2041E-005$$

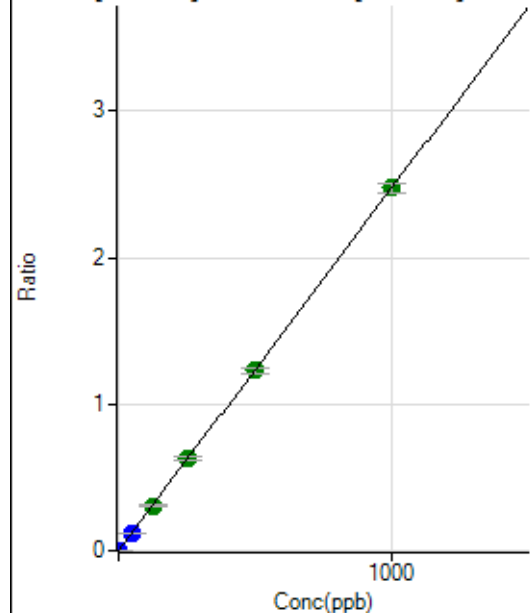
$$R = 1.0000$$

$$DL = 0.009144$$

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	305.57	0.0000	P	8.2
2	☐	1.000	0.999	22622.12	0.0025	P	1.8
3	☐	50.000	47.876	1091101.88	0.1184	P	2.3
4	☐	125.000	122.747	2818309.96	0.3035	A	3.2
5	☐	250.000	255.073	5684090.41	0.6307	A	4.8
6	☐	500.000	496.345	11326823.43	1.2273	A	2.3
7	☐	1000.000	1000.947	22671023.42	2.4749	A	2.3
8	☐			8639.06	0.0011	P	3.4

$$y = 0.0025 * x + 3.4066E-005$$

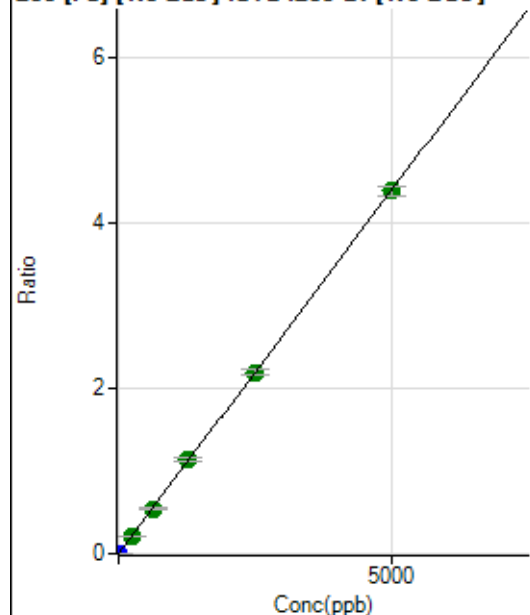
$$R = 1.0000$$

$$DL = 0.003395$$

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	435.20	0.0000	P	1.4
2	☐	1.000	0.940	7896.84	0.0009	P	2.4
3	☐	250.000	245.757	1989377.69	0.2159	A	1.9
4	☐	625.000	612.881	4998153.99	0.5383	A	3.3
5	☐	1250.000	1288.832	10203327.19	1.1320	A	3.4
6	☐	2500.000	2497.630	20247173.83	2.1937	A	2.5
7	☐	5000.000	4993.204	40172262.94	4.3855	A	2.4
8	☐			11354.93	0.0014	P	1.7

$$y = 8.7828\text{E-}004 * x + 4.8477\text{E-}005$$

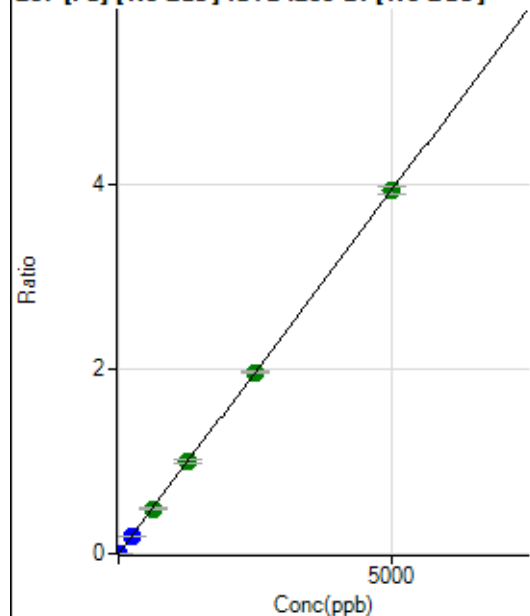
$$R = 1.0000$$

$$DL = 0.002324$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	409.27	0.0000	P	17.0
2	☐	1.000	0.882	6696.20	0.0007	P	1.4
3	☐	250.000	231.800	1683400.25	0.1827	P	2.6
4	☐	625.000	611.821	4476274.06	0.4821	A	3.7
5	☐	1250.000	1276.830	9068300.26	1.0061	A	3.9
6	☐	2500.000	2498.910	18174061.17	1.9690	A	1.8
7	☐	5000.000	4996.395	36063426.50	3.9369	A	2.1
8	☐			9981.60	0.0013	P	3.2

$$y = 7.8794\text{E-}004 * x + 4.5622\text{E-}005$$

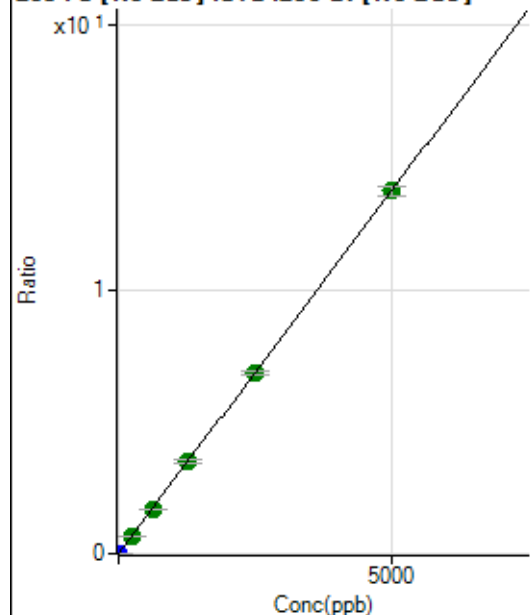
$$R = 1.0000$$

$$DL = 0.0295$$

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	1418.59	0.0002	P	4.0
2	☐	1.000	0.907	23929.09	0.0026	P	1.6
3	☐	250.000	243.752	6169471.01	0.6695	A	1.8
4	☐	625.000	610.915	15577662.88	1.6778	A	3.6
5	☐	1250.000	1276.677	31600506.59	3.5060	A	3.8
6	☐	2500.000	2490.372	63122081.91	6.8389	A	2.0
7	☐	5000.000	5000.218	125782163.3	13.7311	A	2.8
8	☐			35294.53	0.0045	P	2.4

$$y = 0.0027 * x + 1.5800E-004$$

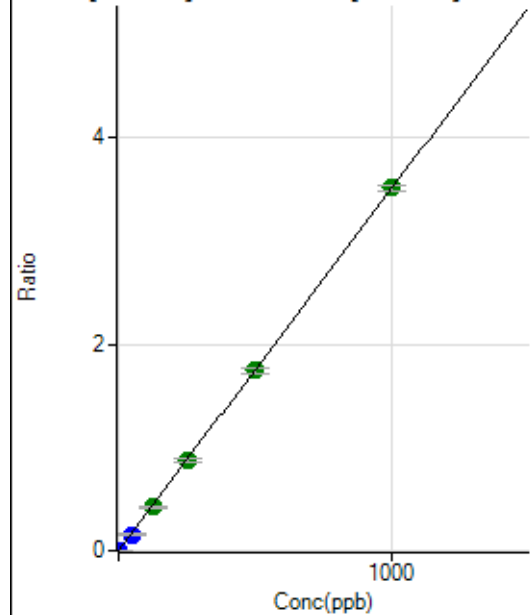
$$R = 1.0000$$

$$DL = 0.006826$$

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	394.46	0.0000	P	32.0
2	☐	1.000	0.895	28770.62	0.0032	P	1.8
3	☐	50.000	44.701	1444521.33	0.1568	P	2.7
4	☐	125.000	120.255	3914671.96	0.4217	A	4.6
5	☐	250.000	250.079	7904192.36	0.8768	A	4.0
6	☐	500.000	497.578	16102526.92	1.7446	A	2.5
7	☐	1000.000	1002.049	32182422.94	3.5133	A	1.8
8	☐			5565.26	0.0007	P	5.6

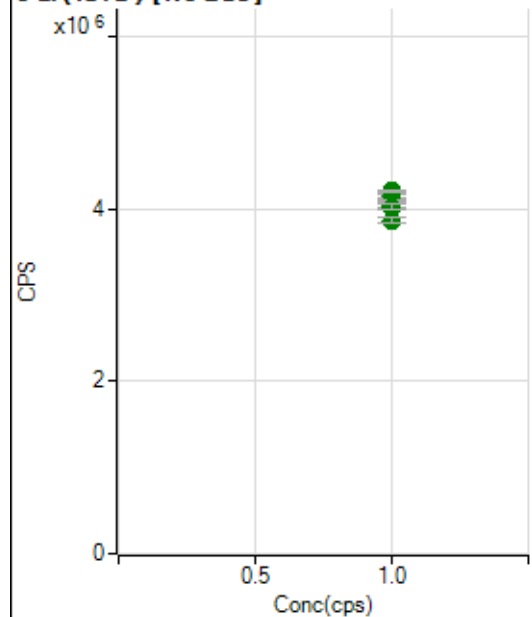
$$y = 0.0035 * x + 4.3906E-005$$

$$R = 1.0000$$

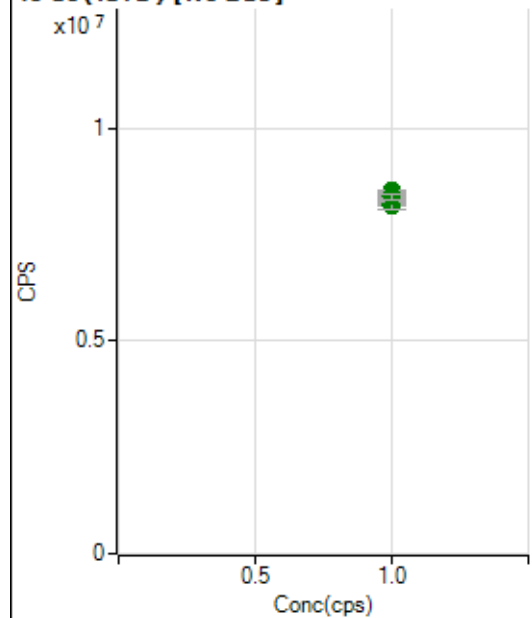
$$DL = 0.01203$$

Weight: <None>

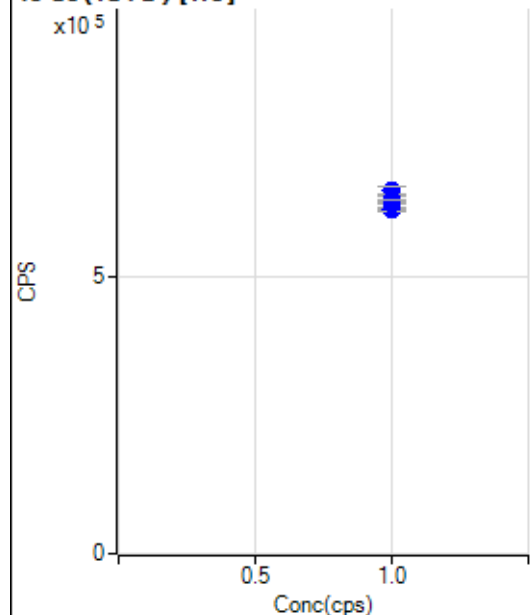
Min Conc: 0

6 Li (ISTD) [No Gas]

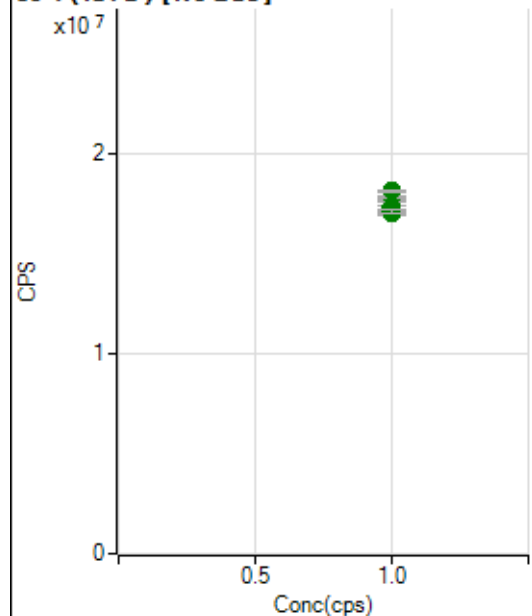
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4046217.06		A	1.8
2	☐	1.000		4111372.44		A	0.8
3	☐	1.000		4147185.74		A	1.1
4	☐	1.000		4213244.69		A	0.8
5	☐	1.000		4045188.55		A	1.2
6	☐	1.000		4094880.01		A	0.3
7	☐	1.000		4026928.27		A	1.9
8	☐	1.000		3872543.07		A	2.0

45 Sc (ISTD) [No Gas]

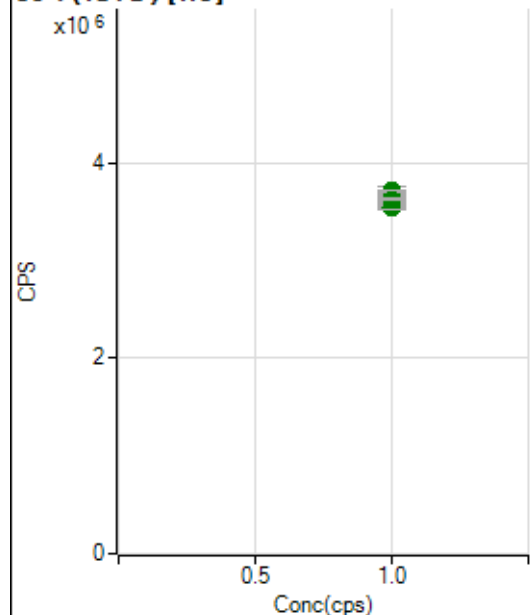
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8207794.04		A	0.4
2	☐	1.000		8243511.20		A	1.4
3	☐	1.000		8391578.41		A	0.7
4	☐	1.000		8429691.82		A	0.7
5	☐	1.000		8192780.37		A	1.8
6	☐	1.000		8407348.83		A	0.6
7	☐	1.000		8535404.11		A	0.5
8	☐	1.000		8396203.07		A	1.8

45 Sc (ISTD) [He]

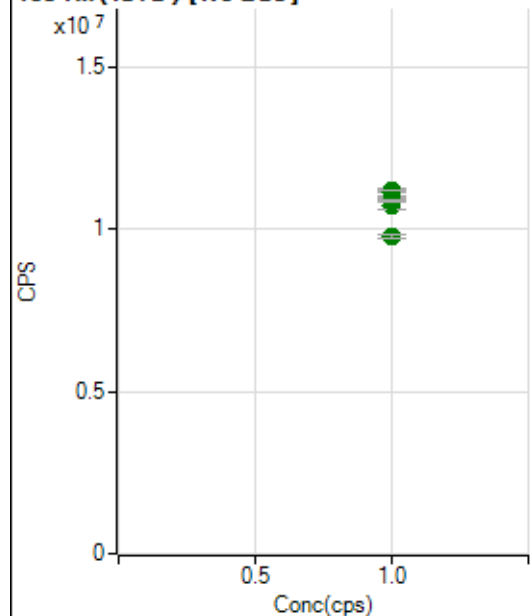
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		625096.28		P	0.9
2	☐	1.000		624158.85		P	0.8
3	☐	1.000		635263.39		P	0.4
4	☐	1.000		638997.27		P	0.7
5	☐	1.000		656959.23		P	2.1
6	☐	1.000		639393.15		P	0.0
7	☐	1.000		648934.37		P	0.4
8	☐	1.000		640356.21		P	0.2

89 Y (ISTD) [No Gas]

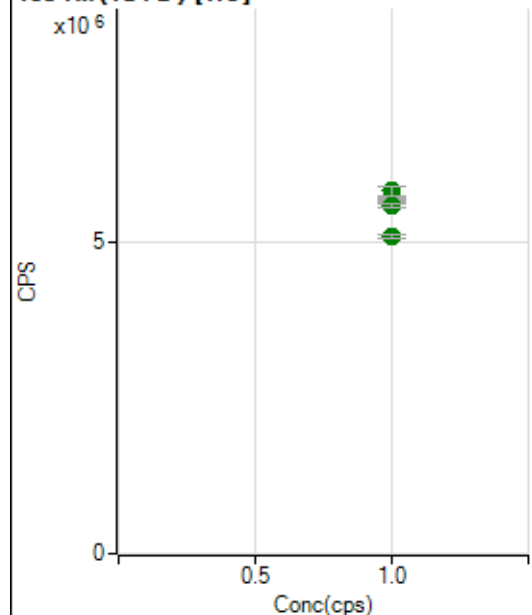
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		17018608.50		A	1.6
2	☐	1.000		17328411.55		A	1.0
3	☐	1.000		17563241.82		A	1.6
4	☐	1.000		17736222.65		A	0.2
5	☐	1.000		17398586.55		A	1.9
6	☐	1.000		17856488.07		A	0.5
7	☐	1.000		18135909.45		A	0.2
8	☐	1.000		17113833.91		A	1.1

89 Y(ISTD) [He]

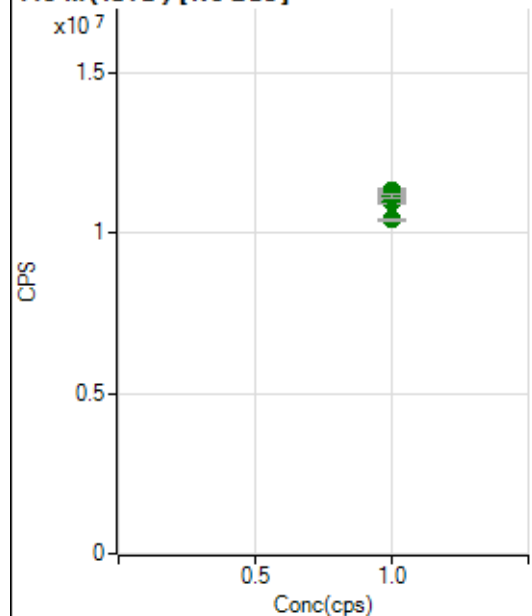
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3554384.77		A	0.9
2	☐	1.000		3543408.07		A	1.6
3	☐	1.000		3610496.23		A	0.8
4	☐	1.000		3631460.61		A	0.8
5	☐	1.000		3711101.30		A	2.2
6	☐	1.000		3634530.92		A	1.2
7	☐	1.000		3711633.87		A	0.6
8	☐	1.000		3629515.26		A	0.8

103 Rh(ISTD) [No Gas]

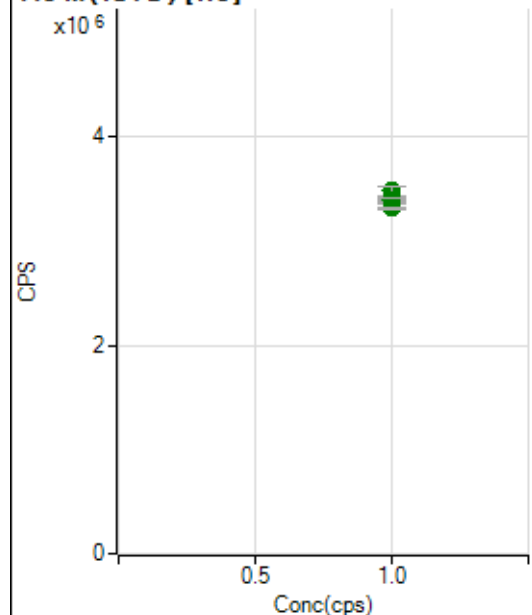
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10938663.93		A	1.2
2	☐	1.000		10978608.03		A	0.6
3	☐	1.000		11192978.79		A	1.0
4	☐	1.000		11132349.07		A	1.6
5	☐	1.000		10710748.59		A	2.2
6	☐	1.000		10873876.29		A	0.3
7	☐	1.000		10893081.92		A	0.5
8	☐	1.000		9772348.46		A	1.0

103 Rh (ISTD) [He]

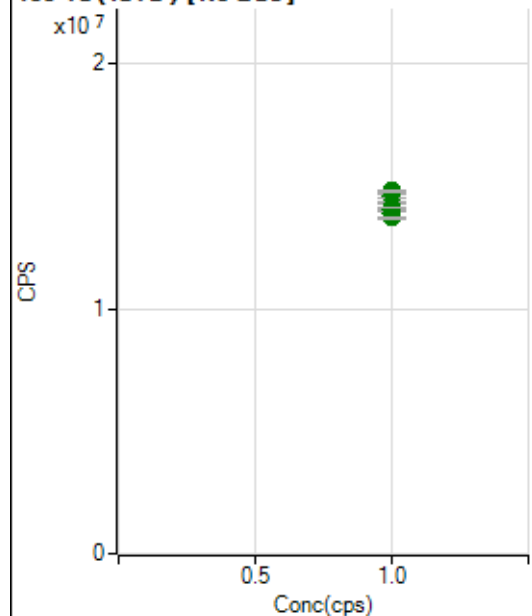
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5636261.03		A	0.7
2	☐	1.000		5685854.78		A	2.1
3	☐	1.000		5730495.19		A	0.2
4	☐	1.000		5680977.35		A	0.6
5	☐	1.000		5822933.87		A	2.6
6	☐	1.000		5591082.63		A	1.4
7	☐	1.000		5600036.41		A	1.1
8	☐	1.000		5084687.11		A	0.9

115 In (ISTD) [No Gas]

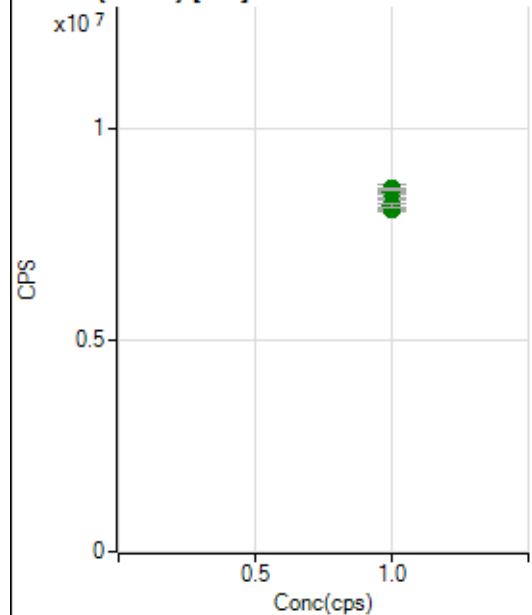
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11028236.05		A	0.6
2	☐	1.000		11124059.58		A	1.4
3	☐	1.000		11308945.54		A	0.9
4	☐	1.000		11243355.05		A	1.3
5	☐	1.000		10997439.66		A	1.8
6	☐	1.000		11229597.89		A	0.4
7	☐	1.000		11164713.99		A	1.0
8	☐	1.000		10424108.28		A	0.5

115 In (ISTD) [He]

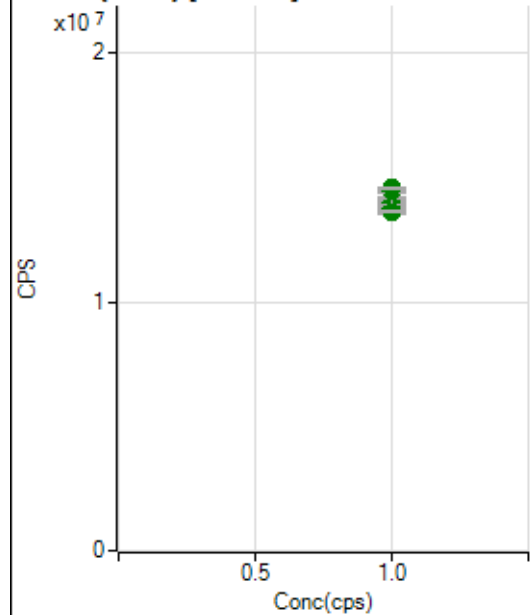
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3374080.31		A	0.3
2	☐	1.000		3382807.36		A	0.8
3	☐	1.000		3411400.69		A	1.2
4	☐	1.000		3401538.04		A	0.6
5	☐	1.000		3479144.96		A	2.4
6	☐	1.000		3378061.44		A	0.7
7	☐	1.000		3384367.27		A	1.3
8	☐	1.000		3312968.77		A	0.8

159 Tb (ISTD) [No Gas]

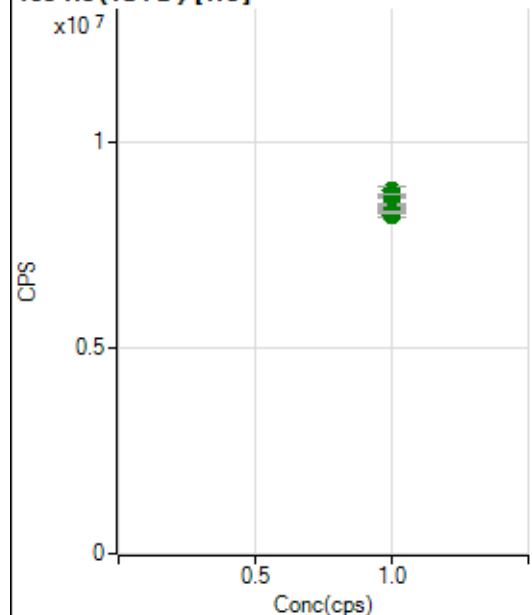
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13906057.99		A	1.8
2	☐	1.000		14048994.93		A	1.4
3	☐	1.000		14307917.29		A	0.4
4	☐	1.000		14582280.75		A	0.9
5	☐	1.000		14144595.21		A	0.4
6	☐	1.000		14765018.39		A	1.0
7	☐	1.000		14817155.75		A	0.6
8	☐	1.000		13730117.85		A	0.6

159 Tb (ISTD) [He]

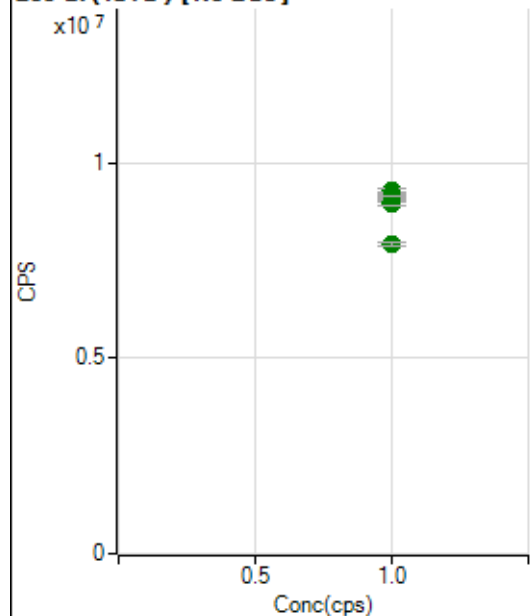
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8099433.70		A	1.1
2	☐	1.000		8101818.49		A	0.4
3	☐	1.000		8336950.29		A	0.5
4	☐	1.000		8332299.88		A	0.6
5	☐	1.000		8582040.22		A	2.0
6	☐	1.000		8504841.68		A	0.9
7	☐	1.000		8580187.58		A	0.1
8	☐	1.000		8184086.75		A	1.0

165 Ho (ISTD) [No Gas]

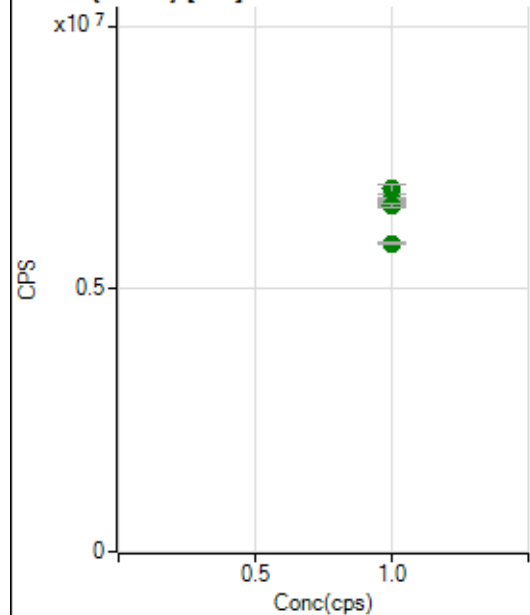
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13634384.94		A	2.0
2	☐	1.000		13801414.93		A	1.2
3	☐	1.000		14060201.32		A	0.5
4	☐	1.000		14350403.54		A	1.3
5	☐	1.000		14039543.40		A	1.8
6	☐	1.000		14457067.84		A	0.7
7	☐	1.000		14594848.53		A	0.3
8	☐	1.000		13635852.71		A	0.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8224515.15		A	1.1
2	☐	1.000		8221604.74		A	1.5
3	☐	1.000		8376707.86		A	0.7
4	☐	1.000		8458653.28		A	0.6
5	☐	1.000		8803998.55		A	2.6
6	☐	1.000		8657620.22		A	0.8
7	☐	1.000		8711447.72		A	0.2
8	☐	1.000		8278711.27		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8976520.77		A	1.4
2	☐	1.000		9037853.68		A	0.8
3	☐	1.000		9215366.18		A	0.6
4	☐	1.000		9287285.49		A	1.3
5	☐	1.000		9017610.56		A	2.2
6	☐	1.000		9229691.74		A	0.8
7	☐	1.000		9160367.02		A	0.3
8	☐	1.000		7912694.47		A	1.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6656683.44		A	1.3
2	☐	1.000		6637161.78		A	0.9
3	☐	1.000		6715012.54		A	0.1
4	☐	1.000		6693291.78		A	0.6
5	☐	1.000		6908418.44		A	2.4
6	☐	1.000		6710864.07		A	0.4
7	☐	1.000		6580920.81		A	1.1
8	☐	1.000		5869476.51		A	0.7

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7100222-MS.b

Acq. Date-Time 2022-10-02 13:26:41

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		13096	130962.44			0.176	5.000
24		133381	1333812.33			0.513	5.000
25		18065	180654.82			0.389	5.000
26		21072	210719.62			0.800	5.000
59		107332	1073322.72			0.395	5.000
113		10873	108732.07			0.416	5.000
115		139513	1395128.74			1.013	5.000
206		32285	322845.56			0.823	5.000
207		30331	303307.36			0.928	5.000
208		70384	703840.41			0.879	5.000
220		0	4.90			41.700	

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

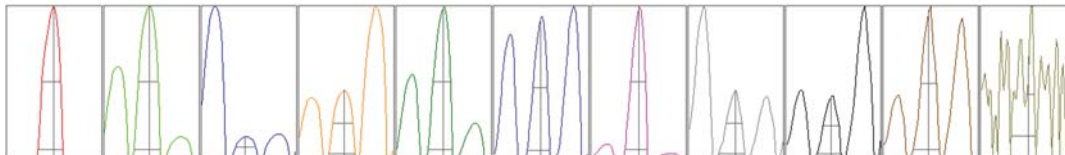
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	13076	13106	13068	13110	13121
24	134117	133051	133398	133923	132417
25	18129	18125	18006	18091	17976
26	21280	21208	20950	21041	20882
59	107591	106862	107345	107885	106979
113	10917	10910	10845	10884	10810
115	140425	140826	139778	139331	137205
206	32639	32454	32095	32253	31982
207	30705	30339	30193	30462	29956
208	71194	70512	70248	70492	69474

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	23840.98	9.00	8.90 - 9.10	
24	224322.58	23.95	23.90 - 24.10	
25	29862.44	24.90	24.90 - 25.10	
26	33885.10	25.95	25.90 - 26.10	
59	203722.16	59.00	58.90 - 59.10	
113	23872.99	113.00	112.90 - 113.10	
115	304397.14	115.05	114.90 - 115.10	
206	67251.11	206.00	205.90 - 206.10	
207	60222.93	206.95	206.90 - 207.10	
208	144495.52	207.95	207.90 - 208.10	
220	0.60	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.780	0.900	
24	0.63	0.827	0.900	
25	0.63	0.791	0.900	
26	0.65	0.828	0.900	
59	0.54	0.775	0.900	
113	0.45	0.720	0.900	
115	0.47	0.716	0.900	
206	0.50	0.814	0.900	
207	0.51	0.757	0.900	
208	0.49	0.831	0.900	
220	0.24	0.764		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 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	9.7 V	Deflect	15.4 V
Extract 2	-160.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-85 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	122	Axis Gain	1.0001	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.5 mm	Torch V	0.3 mm
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EM

Discriminator	3.2 mV	Analog HV	2215 V	Pulse HV	1408 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		31032	310316.50			0.564	
89		46418	464184.53			0.394	
205		47842	478415.14			0.348	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	31063	30923	30838	31300	31034
89	46480	46564	46100	46493	46456
205	47762	47819	47725	48133	47769

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 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	10.9 V	Deflect	3.6 V
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US EPA Tune Check Report

Extract 2	-175.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-90 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	1.0001	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.5 mm	Torch V	0.3 mm
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EM

Discriminator	3.2 mV	Analog HV	2215 V	Pulse HV	1408 V
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