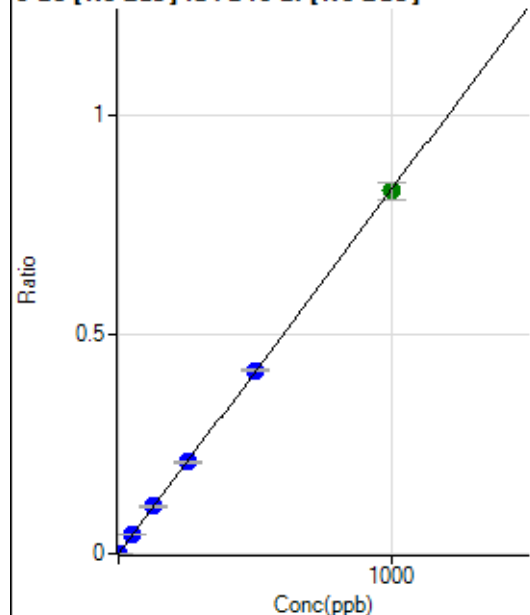


Calibration for 002CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7032923 MS.b\
 Analysis File: P7032923 MS.batch.bin
 DA Date-Time: 2023-03-29 17:05:58
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-03-29 08:35:09
2	005CALS.d	S02	2023-03-29 08:38:26
3	007CALS.d	S03	2023-03-29 08:45:00
4	008CALS.d	S04	2023-03-29 08:48:02
5	009CALS.d	S05	2023-03-29 08:50:56
6	010CALS.d	S06	2023-03-29 08:53:46
7	011CALS.d	S07	2023-03-29 08:56:32
8	012CALS.d	S08	2023-03-29 08:59:20

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	57.78	0.0000	P	18.6
2	☐	1.000	1.011	1734.56	0.0009	P	3.4
3	☐	50.000	52.653	85043.25	0.0437	P	2.4
4	☐	125.000	129.951	205004.93	0.1077	P	2.1
5	☐	250.000	252.602	399561.95	0.2094	P	2.2
6	☐	500.000	504.166	766554.09	0.4179	P	0.5
7	☐	1000.000	996.515	1501744.98	0.8261	A	5.1
8	☐			647.80	0.0004	P	18.7

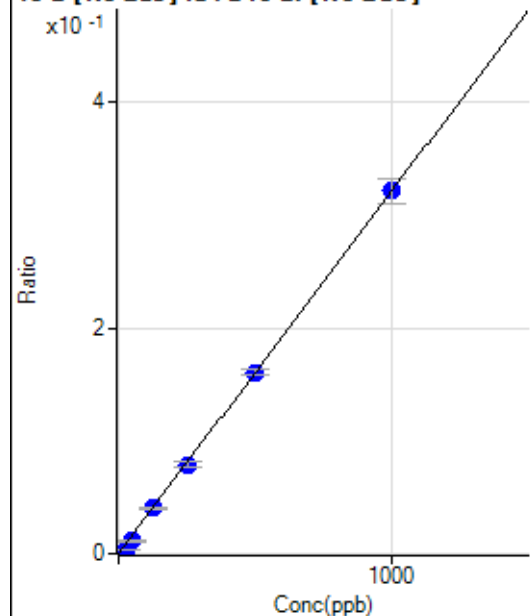
$$y = 8.2893\text{E-}004 * x + 2.9813\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.02003$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	430.01	0.0002	P	16.2
2	☐	25.000	8.385	5818.93	0.0029	P	5.2
3	☐	50.000	34.681	22099.15	0.0114	P	6.9
4	☐	125.000	124.719	76591.10	0.0403	P	5.1
5	☐	250.000	246.307	151264.11	0.0793	P	5.5
6	☐	500.000	501.241	295640.36	0.1612	P	3.2
7	☐	1000.000	1001.519	584696.72	0.3218	P	7.2
8	☐			21864.52	0.0131	P	13.0

$$y = 3.2106\text{E-}004 * x + 2.2219\text{E-}004$$

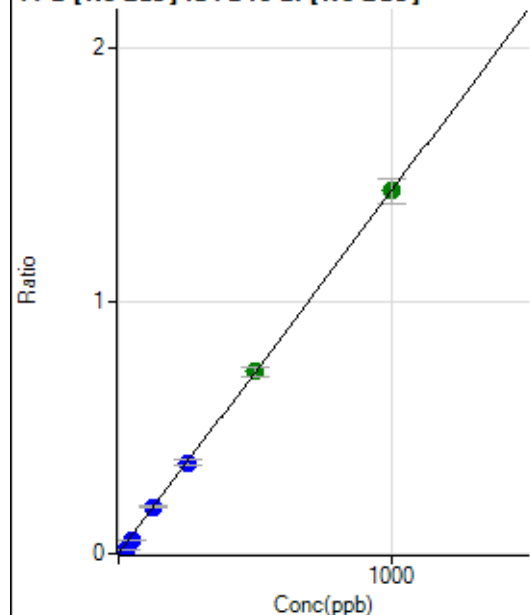
$$R = 0.9998$$

$$DL = 0.3366$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1905.69	0.0010	P	4.4
2	☐	25.000	8.424	26107.59	0.0131	P	6.0
3	☐	50.000	35.676	101564.67	0.0522	P	6.6
4	☐	125.000	128.032	351434.72	0.1848	P	5.4
5	☐	250.000	250.653	688125.87	0.3608	P	5.5
6	☐	500.000	501.432	1322431.76	0.7207	A	4.9
7	☐	1000.000	999.873	2610329.81	1.4362	A	6.6
8	☐			99939.84	0.0597	P	12.1

$$y = 0.0014 * x + 9.8371E-004$$

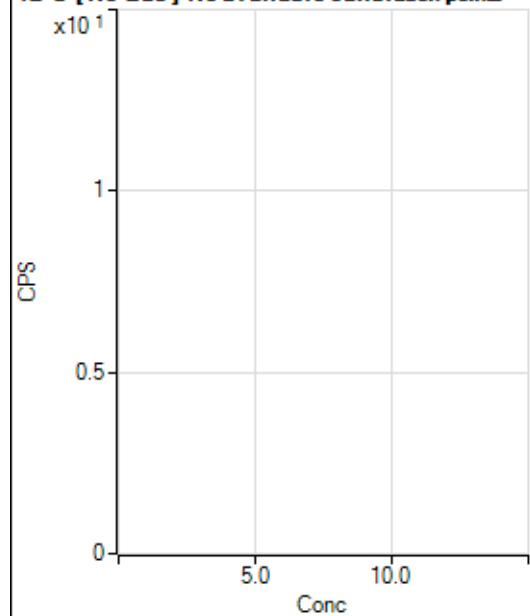
$$R = 0.9998$$

$$DL = 0.09068$$

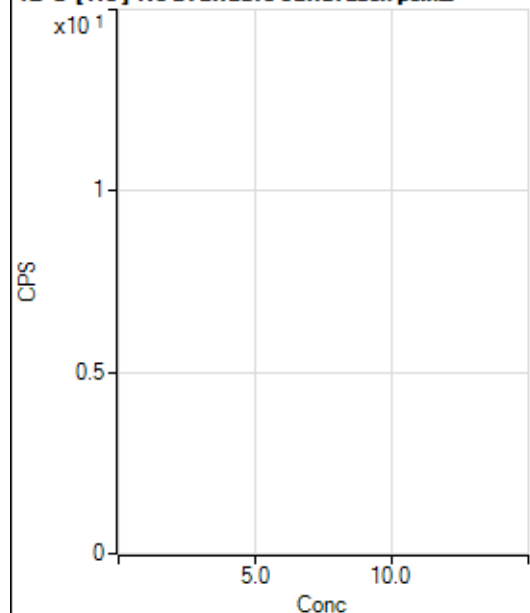
Weight: <None>

Min Conc: 0

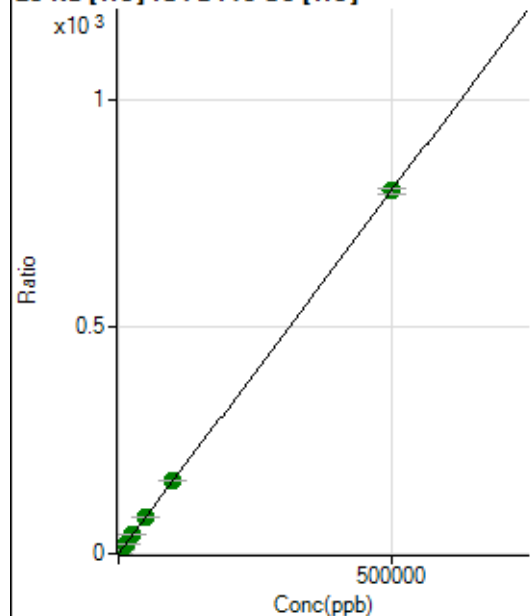
12 C [No Gas] No available calibration points



	Rj 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	16602.35	0.0377	P	3.7
2	☐	500.000	483.627	361827.73	0.8125	P	0.7
3	☐	5000.000	5102.286	3616317.10	8.2115	A	0.8
4	☐	12500.000	12677.861	8867422.92	20.3474	A	1.0
5	☐	25000.000	25284.595	17674927.24	40.5432	A	0.6
6	☐	50000.000	49891.027	34819441.42	79.9623	A	0.8
7	☐	100000.00	100739.49	70319114.51	161.4206	A	1.6
8	☐	500000.00	499843.31	323637515.1	800.7779	A	1.3

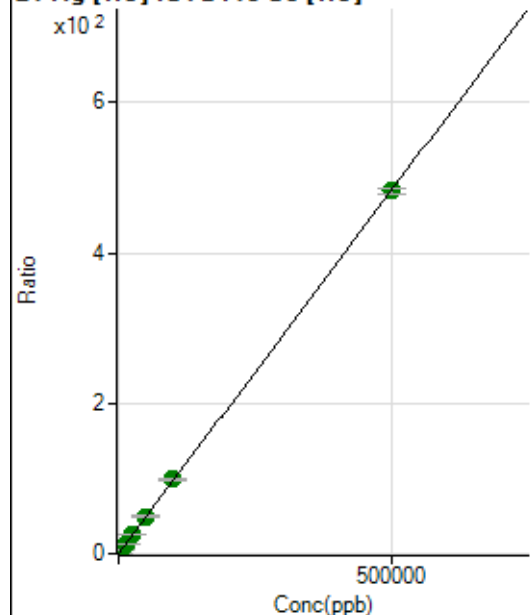
$$y = 0.0016 * x + 0.0377$$

$$R = 1.0000$$

$$DL = 2.612$$

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	614.46	0.0014	P	4.1
2	☐	500.000	493.192	212857.37	0.4780	P	0.5
3	☐	5000.000	5323.197	2266044.76	5.1452	A	1.7
4	☐	12500.000	13115.714	5523805.89	12.6751	A	0.9
5	☐	25000.000	26231.960	11050786.64	25.3492	A	1.3
6	☐	50000.000	51237.074	21558789.68	49.5116	A	1.6
7	☐	100000.00	102584.06	43181302.13	99.1280	A	1.9
8	☐	500000.00	499279.26	194984579.3	482.4530	A	1.2

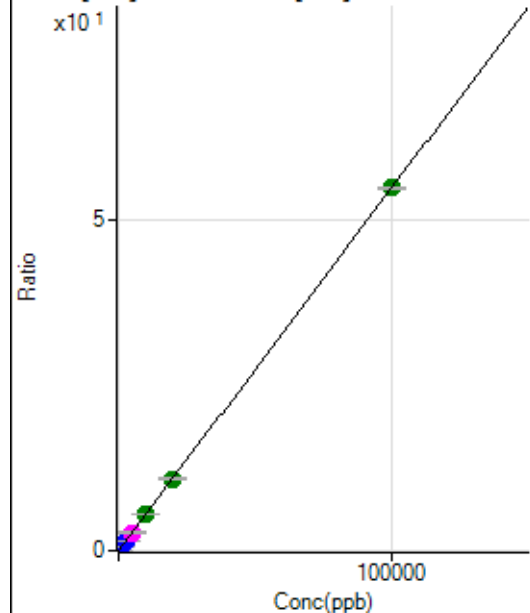
$$y = 9.6630E-004 * x + 0.0014$$

$$R = 1.0000$$

$$DL = 0.1792$$

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	165.56	0.0004	P	21.0
2	☐	20.000	18.990	4799.68	0.0108	P	6.2
3	☐	1000.000	1007.986	243329.39	0.5525	P	0.8
4	☐	2500.000	2526.454	603293.63	1.3843	P	1.1
5	☐	5000.000	5033.898	1202339.64	2.7579	M	1.0
6	☐	10000.000	9932.209	2369182.45	5.4412	A	2.0
7	☐	20000.000	19711.739	4703620.80	10.7983	A	2.6
8	☐	100000.00	100061.99	22153589.67	54.8136	A	0.9

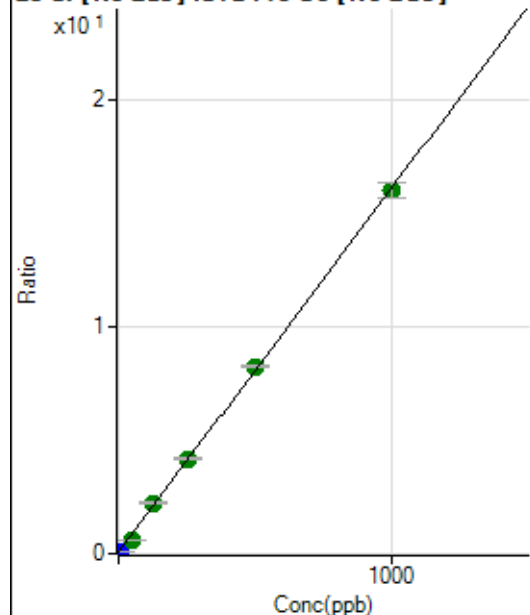
$$y = 5.4779E-004 * x + 3.7626E-004$$

$$R = 1.0000$$

$$DL = 0.4324$$

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	336158.34	0.0690	P	4.0
2	☐	10.000	0.440	380714.63	0.0761	P	1.5
3	☐	50.000	34.686	3058685.20	0.6255	A	3.1
4	☐	125.000	134.642	10661964.63	2.2293	A	2.7
5	☐	250.000	257.089	20107197.06	4.1938	A	2.5
6	☐	500.000	510.199	38562587.48	8.2548	A	0.6
7	☐	1000.000	992.784	76501106.64	15.9975	A	4.2
8	☐			706674.25	0.1560	P	10.8

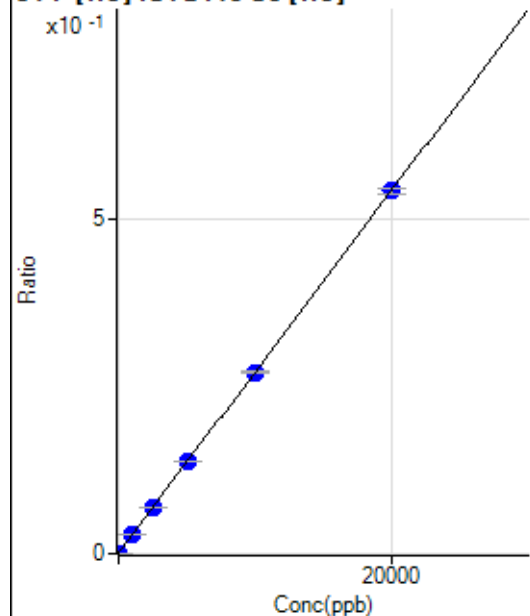
$$y = 0.0160 * x + 0.0690$$

$$R = 0.9996$$

$$DL = 0.5134$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-11.267	322.23	0.0007	P	11.2
2	☐	0.000	11.267	597.80	0.0013	P	12.7
3	☐	1000.000	1019.706	12625.30	0.0287	P	1.2
4	☐	2500.000	2529.297	30322.26	0.0696	P	1.5
5	☐	5000.000	5070.069	60347.27	0.1384	P	1.4
6	☐	10000.000	9980.943	118224.37	0.2715	P	1.4
7	☐	20000.000	19987.364	236408.76	0.5427	P	1.4
8	☐			340.01	0.0008	P	12.2

$$y = 2.7099E-005 * x + 0.0010$$

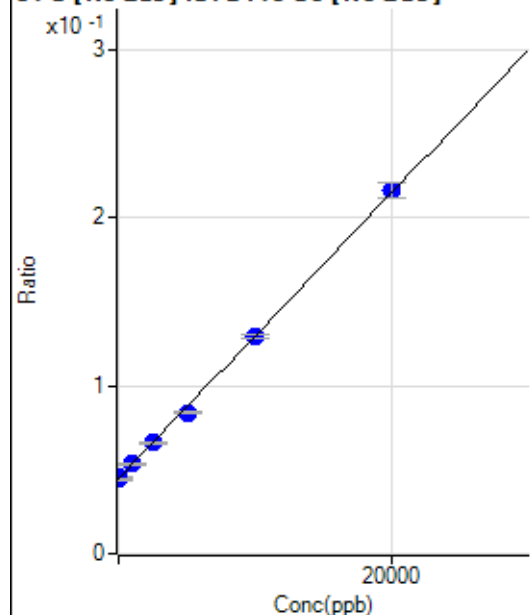
$$R = 1.0000$$

$$DL = 13.96$$

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	80.291	221351.09	0.0454	P	2.7
2	☐	0.000	-80.291	220554.09	0.0441	P	0.5
3	☐	1000.000	1042.964	262244.36	0.0536	P	1.8
4	☐	2500.000	2490.465	315335.87	0.0659	P	0.5
5	☐	5000.000	4613.728	402629.95	0.0840	P	1.0
6	☐	10000.000	9936.809	603532.88	0.1292	P	1.2
7	☐	20000.000	20127.207	1032006.66	0.2158	P	4.3
8	☐			199798.18	0.0441	P	2.2

$$y = 8.4985E-006 * x + 0.0448$$

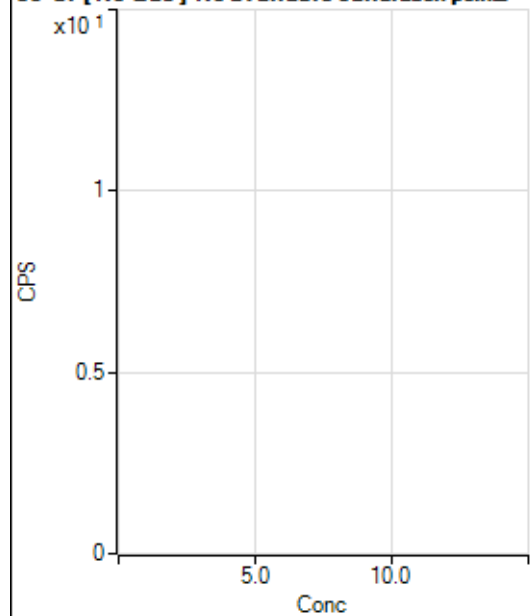
$$R = 0.9997$$

$$DL = 255$$

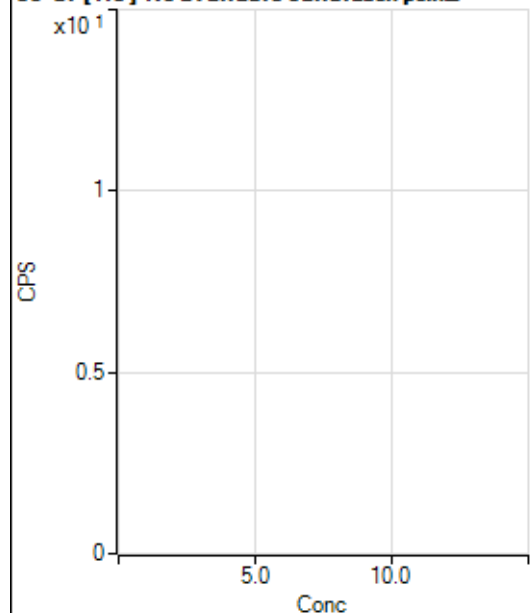
Weight: <None>

Min Conc: 0

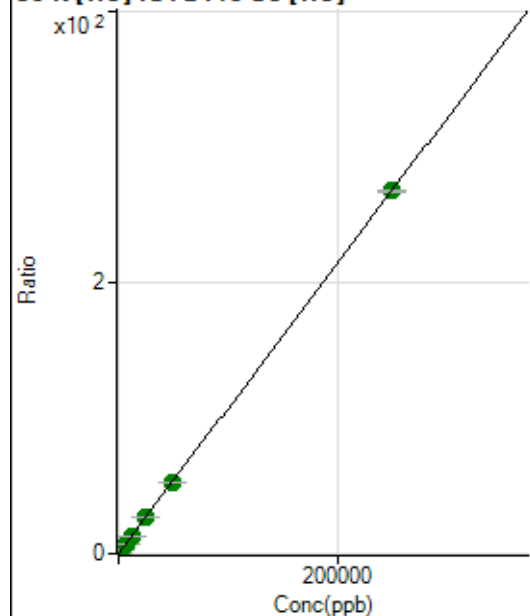
35 Cl [No Gas] No available calibration points



	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	58791.88	0.1335	P	1.1
2	☐	500.000	476.343	286378.08	0.6431	P	0.9
3	☐	2500.000	2509.597	1240957.23	2.8179	A	0.8
4	☐	6250.000	6142.453	2921583.12	6.7038	A	0.2
5	☐	12500.000	12237.802	5764784.50	13.2237	A	1.1
6	☐	25000.000	24609.361	11520589.13	26.4570	A	0.9
7	☐	50000.000	48913.068	22852252.44	52.4535	A	0.8
8	☐	250000.00	250272.20	108254826.1	267.8375	A	0.5

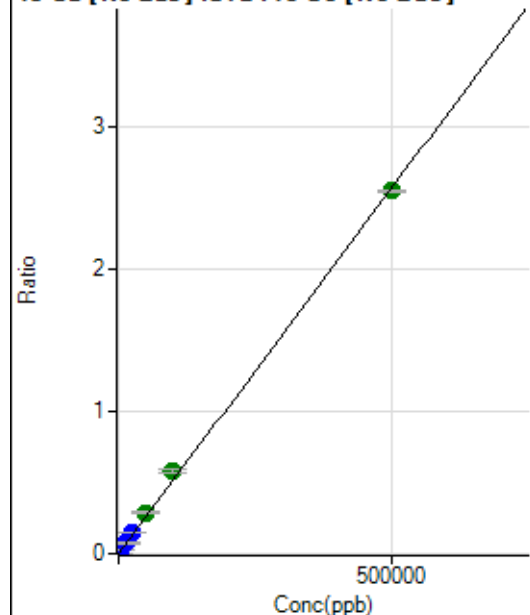
$$y = 0.0011 * x + 0.1335$$

$$R = 1.0000$$

$$DL = 3.935$$

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	86.67	0.0000	P	24.9
2	☐	500.000	494.142	12764.32	0.0026	P	0.9
3	☐	5000.000	5817.495	145899.07	0.0298	P	3.1
4	☐	12500.000	14476.360	355017.32	0.0742	P	1.9
5	☐	25000.000	28384.396	697683.56	0.1455	P	2.4
6	☐	50000.000	56277.782	1347744.32	0.2885	A	1.3
7	☐	100000.00	113148.23	2773345.44	0.5800	A	4.8
8	☐	500000.00	496515.77	11542621.77	2.5452	A	0.8

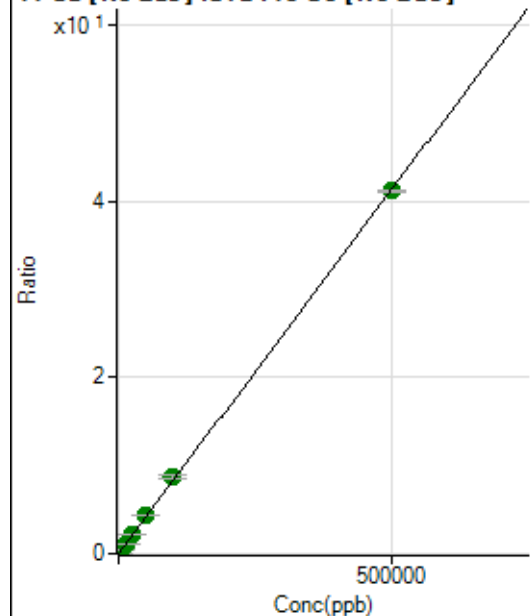
$$y = 5.1260\text{E-}006 * x + 1.7876\text{E-}005$$

$$R = 0.9996$$

$$DL = 2.6$$

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	8041.20	0.0017	P	6.3
2	☐	500.000	491.456	211204.79	0.0422	P	1.5
3	☐	5000.000	5315.197	2153076.10	0.4403	A	2.5
4	☐	12500.000	13132.019	5191313.47	1.0854	A	2.1
5	☐	25000.000	26051.223	10315834.36	2.1516	A	2.3
6	☐	50000.000	52771.555	20350850.53	4.3567	A	1.0
7	☐	100000.00	105942.34	41820899.66	8.7447	A	3.9
8	☐	500000.00	498462.87	186558241.6	41.1382	A	0.5

$$y = 8.2527\text{E-}005 * x + 0.0017$$

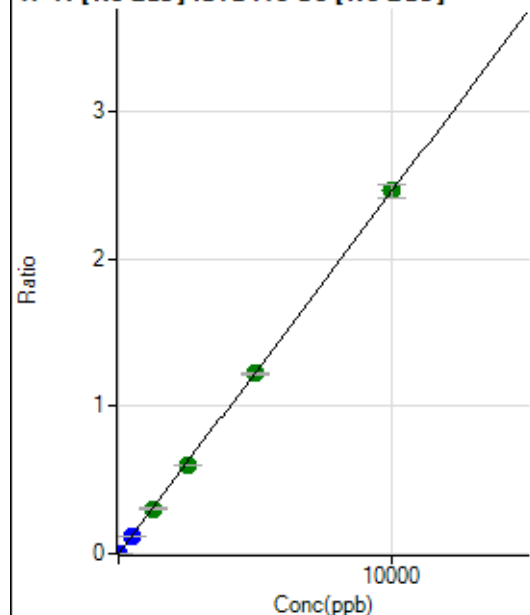
$$R = 0.9999$$

$$DL = 3.804$$

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	115.56	0.0000	P	6.3
2	☐	5.000	4.567	5724.46	0.0011	P	3.8
3	☐	500.000	493.228	591825.00	0.1210	P	2.8
4	☐	1250.000	1240.863	1456226.92	0.3045	A	1.9
5	☐	2500.000	2441.693	2872349.44	0.5991	A	2.0
6	☐	5000.000	4982.546	5710383.94	1.2225	A	0.7
7	☐	10000.000	10024.785	11762339.55	2.4595	A	4.0
8	☐			2833.64	0.0006	P	26.0

$$y = 2.4534\text{E-}004 * x + 2.3734\text{E-}005$$

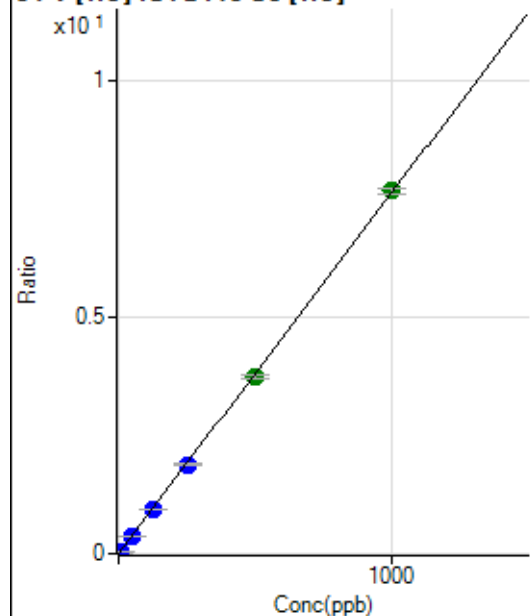
$$R = 1.0000$$

$$DL = 0.01814$$

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	10.00	0.0000	P	88.4
2	☐	5.000	4.676	15859.50	0.0356	P	1.3
3	☐	50.000	49.100	164579.87	0.3737	P	1.2
4	☐	125.000	122.467	406221.76	0.9321	P	1.2
5	☐	250.000	246.978	819508.56	1.8798	P	0.8
6	☐	500.000	490.842	1626740.95	3.7359	A	1.4
7	☐	1000.000	1005.698	3334463.08	7.6545	A	1.8
8	☐			943.37	0.0023	P	7.8

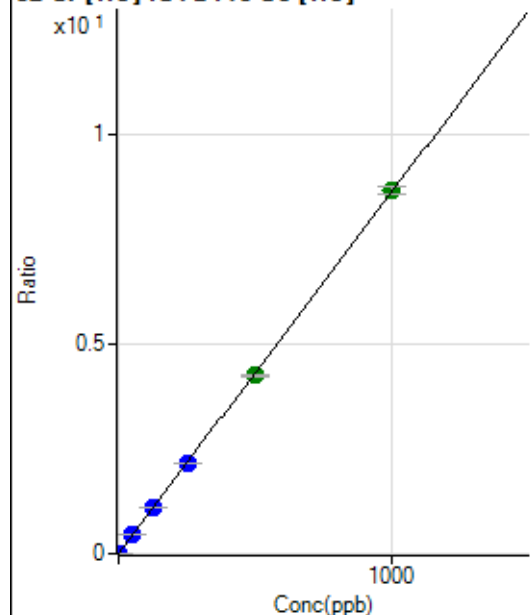
$$y = 0.0076 * x + 2.2803\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.007945$$

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	1327.85	0.0030	P	4.3
2	☐	2.000	1.811	8301.24	0.0186	P	0.3
3	☐	50.000	52.533	200912.93	0.4562	P	0.4
4	☐	125.000	125.442	472933.87	1.0852	P	0.8
5	☐	250.000	250.266	942513.40	2.1620	P	1.5
6	☐	500.000	492.081	1849801.90	4.2482	A	1.6
7	☐	1000.000	1003.712	3773268.56	8.6620	A	2.3
8	☐			26471.09	0.0655	P	2.0

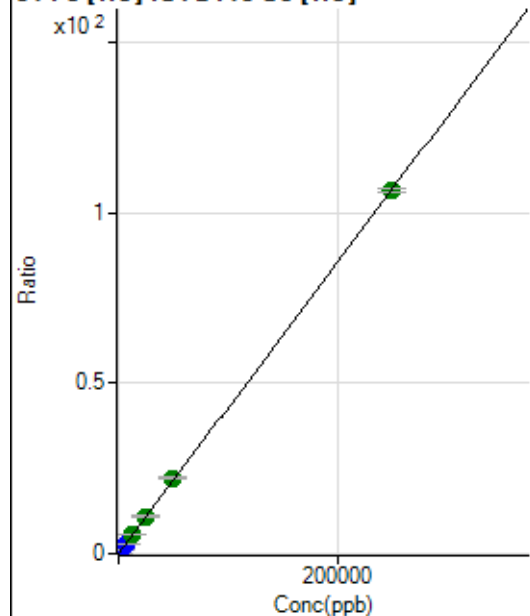
$$y = 0.0086 * x + 0.0030$$

$$R = 0.9999$$

$$DL = 0.04517$$

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	2377.99	0.0054	P	3.6
2	☐	50.000	47.701	11473.35	0.0258	P	1.6
3	☐	2500.000	2696.961	509400.64	1.1567	P	0.5
4	☐	6250.000	6708.410	1250404.17	2.8692	P	0.2
5	☐	12500.000	13223.595	2463294.01	5.6504	A	0.9
6	☐	25000.000	25712.461	4781597.91	10.9818	A	2.6
7	☐	50000.000	51897.213	9653023.54	22.1599	A	2.1
8	☐	250000.00	249499.70	43048146.86	106.5147	A	1.2

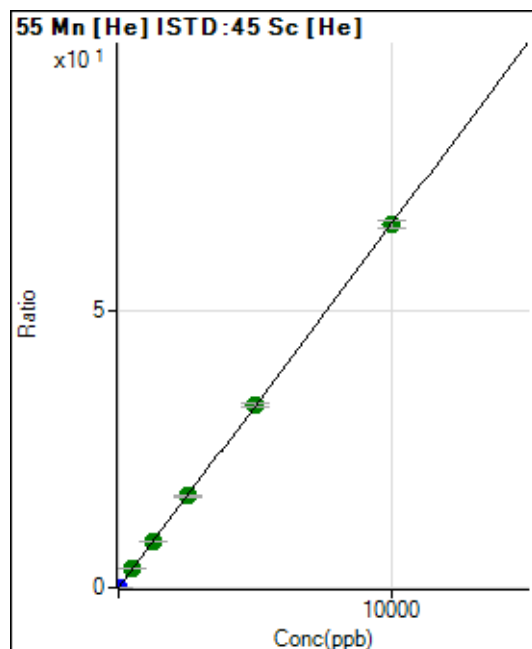
$$y = 4.2689E-004 * x + 0.0054$$

$$R = 1.0000$$

$$DL = 1.38$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	281.12	0.0006	P	0.5
2	☐	1.000	0.990	3172.59	0.0071	P	1.2
3	☐	500.000	513.979	1483610.34	3.3691	A	2.0
4	☐	1250.000	1267.192	3619461.47	8.3053	A	1.1
5	☐	2500.000	2519.573	7198620.86	16.5129	A	1.5
6	☐	5000.000	5031.661	14358162.29	32.9761	A	2.4
7	☐	10000.000	9976.428	28482430.69	65.3821	A	2.0
8	☐			14474.83	0.0358	P	3.0

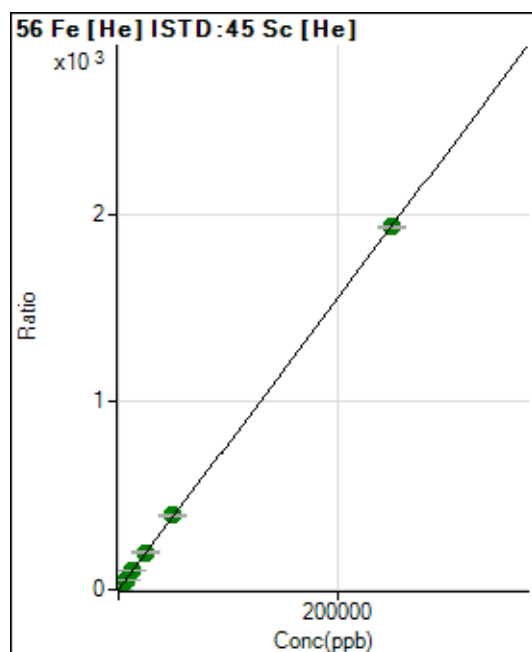
$$y = 0.0066 * x + 6.3848E-004$$

$$R = 1.0000$$

$$DL = 0.00158$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	16109.85	0.0366	P	1.5
2	☐	50.000	48.264	182791.04	0.4105	P	0.9
3	☐	2500.000	2613.519	8931594.87	20.2816	A	1.0
4	☐	6250.000	6518.998	22023027.45	50.5345	A	1.1
5	☐	12500.000	13017.015	43972294.90	100.8698	A	2.0
6	☐	25000.000	25683.365	86638329.82	198.9867	A	2.9
7	☐	50000.000	51192.551	172756270.7	396.5876	A	2.0
8	☐	250000.00	249659.44	781648130.5	1,933.964	A	0.5

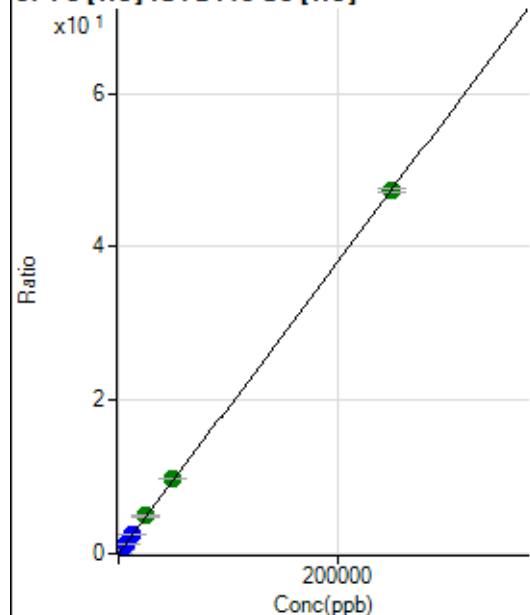
$$y = 0.0077 * x + 0.0366$$

$$R = 1.0000$$

$$DL = 0.2163$$

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	551.13	0.0013	P	16.1
2	☐	50.000	50.031	4780.80	0.0107	P	2.5
3	☐	2500.000	2692.389	225305.08	0.5116	P	0.6
4	☐	6250.000	6696.816	553766.73	1.2707	P	0.6
5	☐	12500.000	13347.259	1103521.20	2.5313	P	0.9
6	☐	25000.000	25811.576	2130945.51	4.8940	A	2.0
7	☐	50000.000	51792.273	4277449.90	9.8189	A	1.4
8	☐	250000.00	249504.93	19115343.74	47.2968	A	0.9

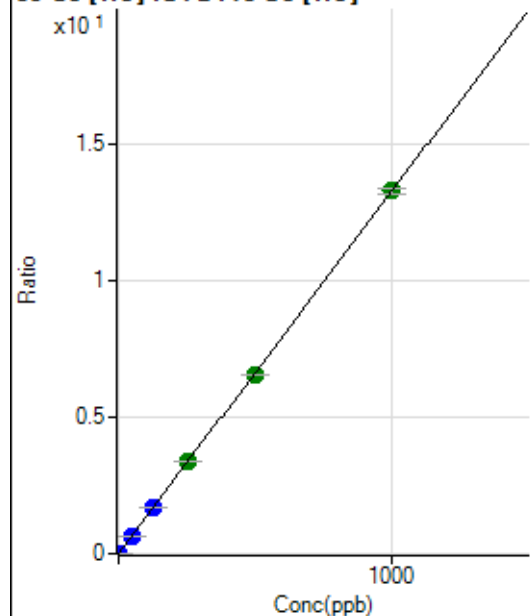
$$y = 1.8956E-004 * x + 0.0013$$

$$R = 1.0000$$

$$DL = 3.186$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	42.22	0.0001	P	19.8
2	☐	1.000	0.935	5577.75	0.0125	P	2.6
3	☐	50.000	50.362	294832.33	0.6695	P	0.2
4	☐	125.000	125.120	724788.47	1.6631	P	0.5
5	☐	250.000	253.937	1471409.74	3.3753	A	1.3
6	☐	500.000	494.155	2860091.17	6.5681	A	0.8
7	☐	1000.000	1001.905	5801008.73	13.3167	A	1.8
8	☐			5858.98	0.0145	P	0.7

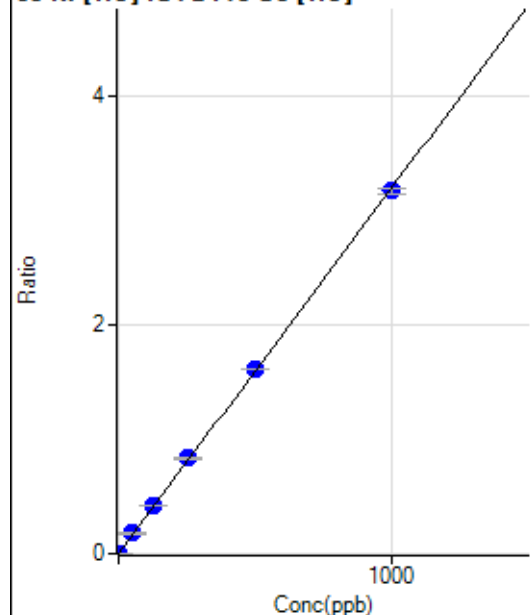
$$y = 0.0133 * x + 9.5893E-005$$

$$R = 1.0000$$

$$DL = 0.004276$$

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	154.45	0.0004	P	9.0
2	☐	1.000	0.971	1536.76	0.0035	P	6.3
3	☐	50.000	55.241	77816.09	0.1767	P	1.0
4	☐	125.000	132.243	184133.66	0.4225	P	1.3
5	☐	250.000	261.327	363835.85	0.8346	P	1.5
6	☐	500.000	506.216	703882.22	1.6164	P	0.1
7	☐	1000.000	992.893	1380931.56	3.1701	P	1.8
8	☐			3279.28	0.0081	P	1.5

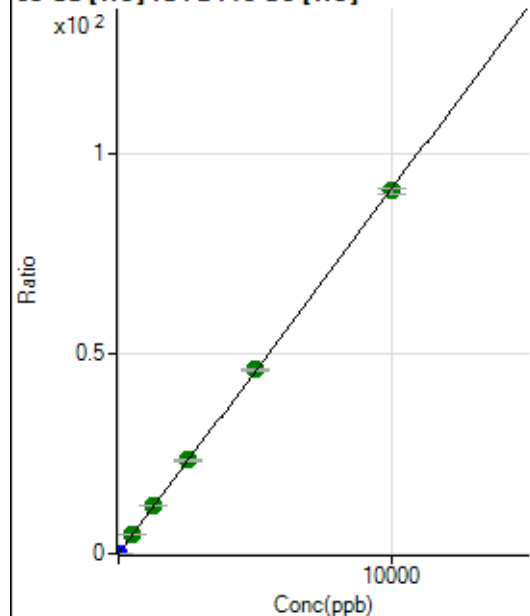
$$y = 0.0032 * x + 3.5063E-004$$

$$R = 0.9999$$

$$DL = 0.02953$$

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	1183.39	0.0027	P	2.4
2	☐	2.000	1.932	9022.79	0.0203	P	1.2
3	☐	500.000	535.855	2147635.91	4.8769	A	1.9
4	☐	1250.000	1302.512	5164386.31	11.8505	A	1.2
5	☐	2500.000	2561.211	10157448.46	23.2998	A	1.0
6	☐	5000.000	5055.212	20024409.70	45.9856	A	1.0
7	☐	10000.000	9948.735	39422289.13	90.4978	A	1.8
8	☐			6540.38	0.0162	P	5.7

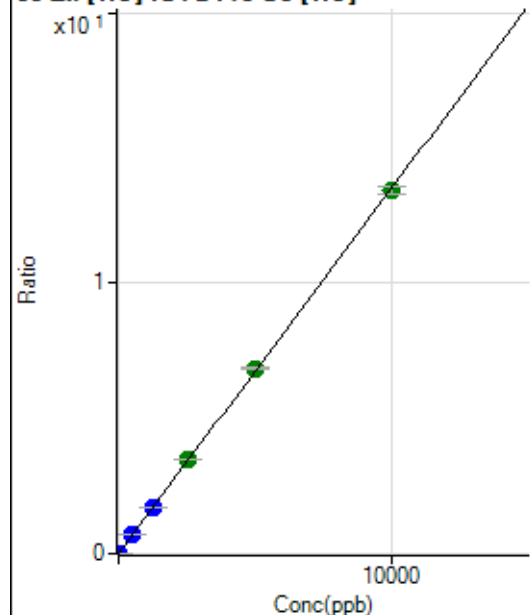
$$y = 0.0091 * x + 0.0027$$

$$R = 1.0000$$

$$DL = 0.02124$$

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	206.67	0.0005	P	11.2
2	☐	2.000	2.046	1438.97	0.0032	P	2.7
3	☐	500.000	515.884	306885.41	0.6968	P	0.6
4	☐	1250.000	1273.937	749638.16	1.7201	P	0.5
5	☐	2500.000	2594.415	1526979.04	3.5026	A	0.7
6	☐	5000.000	5079.756	2985886.07	6.8574	A	1.8
7	☐	10000.000	9932.732	5840820.89	13.4082	A	2.1
8	☐			3776.07	0.0093	P	3.5

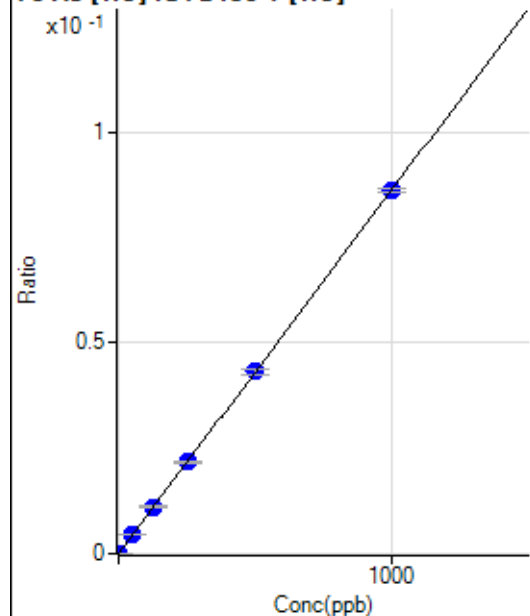
$$y = 0.0013 * x + 4.6963E-004$$

$$R = 0.9999$$

$$DL = 0.1169$$

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	5.56	0.0000	P	91.9
2	☐	1.000	1.080	424.45	0.0001	P	5.3
3	☐	50.000	51.707	19668.67	0.0045	P	2.3
4	☐	125.000	128.159	48152.22	0.0111	P	2.6
5	☐	250.000	252.797	95463.24	0.0218	P	2.1
6	☐	500.000	501.008	191282.91	0.0432	P	3.1
7	☐	1000.000	998.316	383148.06	0.0861	P	1.1
8	☐			66.67	0.0000	P	14.8

$$y = 8.6274E-005 * x + 1.2395E-006$$

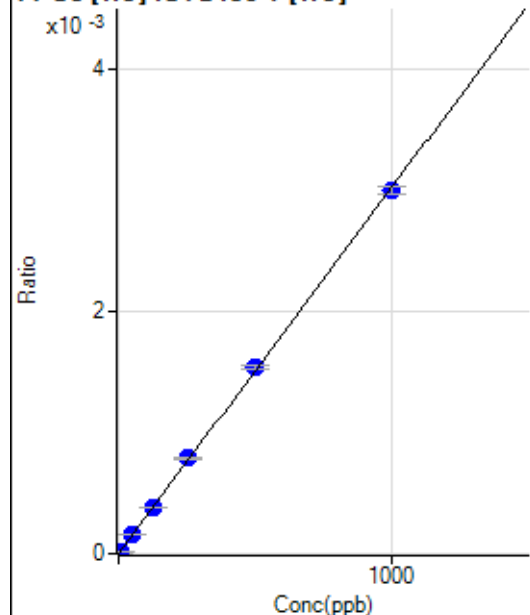
$$R = 1.0000$$

$$DL = 0.03961$$

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	1.11	0.0000	P	173.
2	☐	5.000	5.962	82.22	0.0000	P	33.7
3	☐	50.000	52.471	698.91	0.0002	P	4.4
4	☐	125.000	126.988	1670.12	0.0004	P	0.9
5	☐	250.000	260.917	3447.10	0.0008	P	1.4
6	☐	500.000	510.697	6820.52	0.0015	P	2.5
7	☐	1000.000	991.546	13310.51	0.0030	P	2.1
8	☐			5.56	0.0000	P	91.3

$$y = 3.0173\text{E-}006 * x + 2.4865\text{E-}007$$

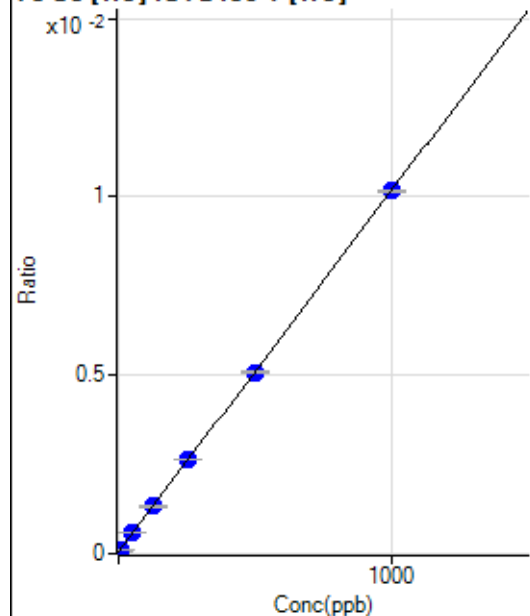
$$R = 0.9999$$

$$DL = 0.4282$$

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	251.12	0.0001	P	11.1
2	☐	5.000	4.413	452.24	0.0001	P	1.7
3	☐	50.000	53.116	2615.81	0.0006	P	2.3
4	☐	125.000	125.422	5768.95	0.0013	P	4.5
5	☐	250.000	256.396	11601.31	0.0027	P	0.7
6	☐	500.000	497.454	22526.11	0.0051	P	0.9
7	☐	1000.000	999.468	45236.63	0.0102	P	0.8
8	☐			248.89	0.0001	P	16.5

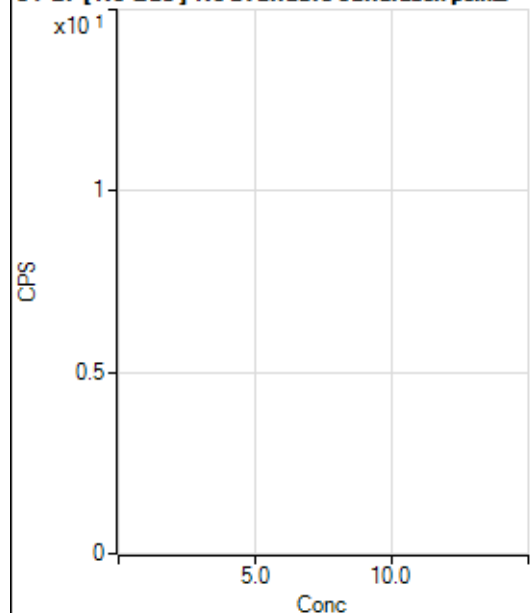
$$y = 1.0118\text{E-}005 * x + 5.5910\text{E-}005$$

$$R = 1.0000$$

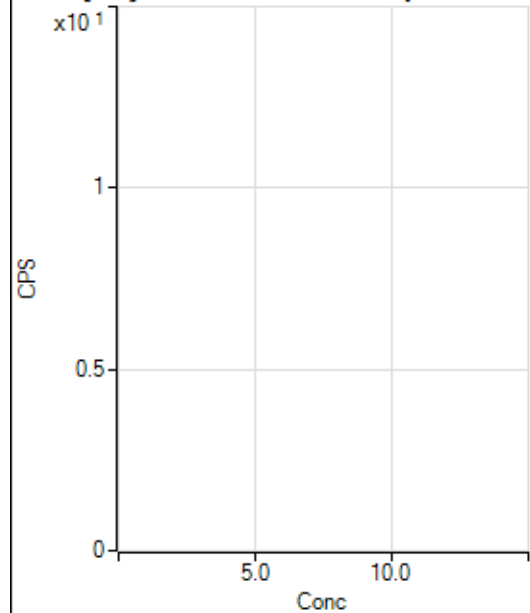
$$DL = 1.84$$

Weight: <None>

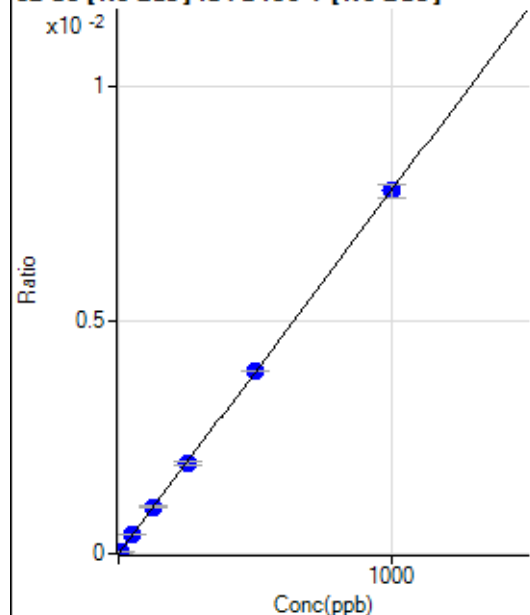
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38038.11		P	0.3
2	☐			38932.60		P	0.2
3	☐			38830.09		P	1.2
4	☐			37229.25		P	0.6
5	☐			37278.31		P	2.2
6	☐			37858.62		P	1.1
7	☐			37910.97		P	0.5
8	☐			39355.93		P	3.1

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			64.45		P	20.9
2	☐			58.89		P	19.9
3	☐			53.33		P	16.5
4	☐			54.44		P	17.7
5	☐			64.44		P	7.9
6	☐			58.89		P	6.5
7	☐			98.89		P	23.9
8	☐			63.33		P	10.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.29	0.0000	P	259.
2	☐	5.000	4.755	722.00	0.0000	P	1.0
3	☐	50.000	51.510	7474.91	0.0004	P	4.5
4	☐	125.000	127.925	18318.66	0.0010	P	3.0
5	☐	250.000	247.547	36122.12	0.0019	P	4.0
6	☐	500.000	503.397	71580.98	0.0039	P	0.5
7	☐	1000.000	998.475	144417.80	0.0078	P	3.9
8	☐			308.53	0.0000	P	23.6

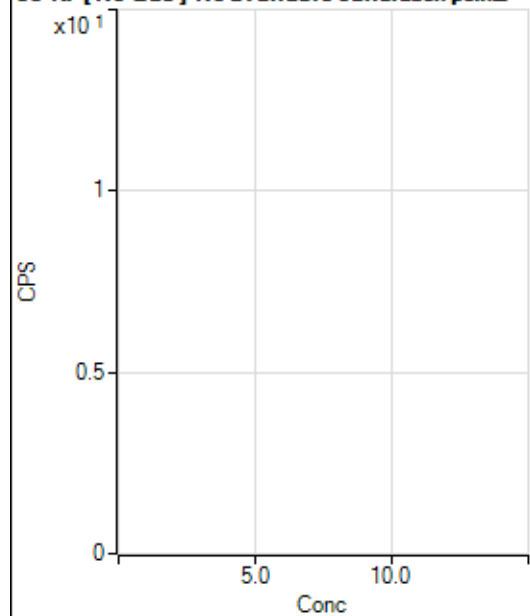
$$y = 7.7768E-006 * x + 1.1642E-006$$

$$R = 1.0000$$

$$DL = 1.165$$

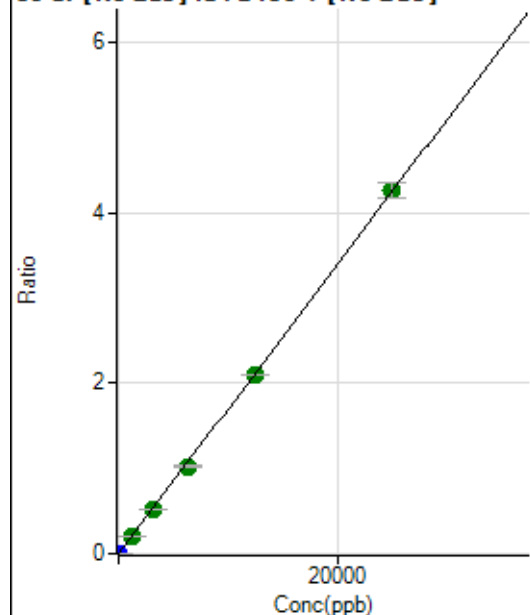
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			167.78		P	21.2
2	☐			153.34		P	7.5
3	☐			171.11		P	24.5
4	☐			164.45		P	7.1
5	☐			156.67		P	20.5
6	☐			212.23		P	7.1
7	☐			217.78		P	19.1
8	☐			232.22		P	25.5

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	294.45	0.0000	P	3.6
2	☐	1.000	0.887	3147.04	0.0002	P	7.3
3	☐	1250.000	1233.358	3884860.71	0.2087	A	3.0
4	☐	3125.000	3106.717	9672386.52	0.5258	A	1.2
5	☐	6250.000	6020.563	19109984.72	1.0189	A	2.9
6	☐	12500.000	12372.331	38273342.76	2.0939	A	0.8
7	☐	25000.000	25124.311	79064788.82	4.2520	A	4.3
8	☐			27760.16	0.0017	P	19.4

$$y = 1.6924\text{E-}004 * x + 1.6291\text{E-}005$$

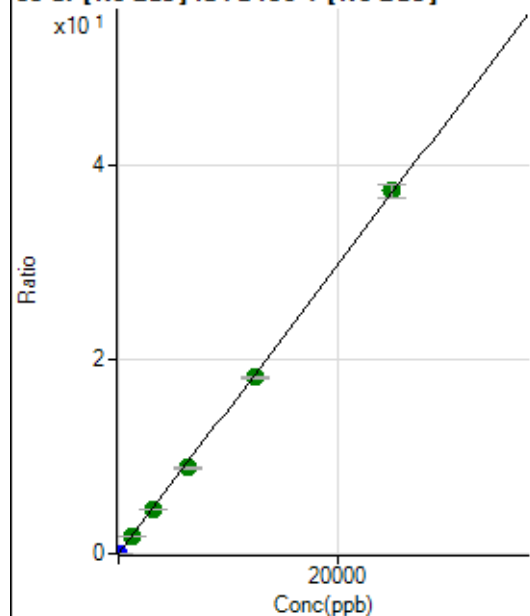
$$R = 0.9999$$

$$DL = 0.01042$$

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	175.56	0.0000	P	6.0
2	☐	1.000	0.869	24602.89	0.0013	P	4.7
3	☐	1250.000	1226.331	33898812.27	1.8214	A	2.3
4	☐	3125.000	3058.624	83566329.86	4.5427	A	1.1
5	☐	6250.000	5976.218	166472708.6	8.8760	A	2.8
6	☐	12500.000	12242.128	332345357.2	18.1823	A	0.4
7	☐	25000.000	25206.862	696172949.6	37.4378	A	4.0
8	☐			236805.32	0.0142	P	18.8

$$y = 0.0015 * x + 9.7258\text{E-}006$$

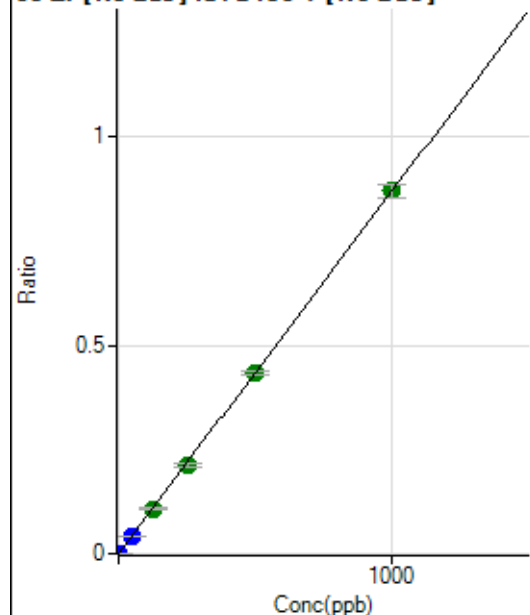
$$R = 0.9999$$

$$DL = 0.001181$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	468.90	0.0000	P	0.2
2	☐	1.000	0.851	14472.78	0.0008	P	2.7
3	☐	50.000	47.615	770073.89	0.0414	P	2.7
4	☐	125.000	124.380	1987368.39	0.1080	A	2.3
5	☐	250.000	243.371	3964501.40	0.2114	A	3.2
6	☐	500.000	498.643	7914774.47	0.4331	A	2.0
7	☐	1000.000	1002.533	16192067.68	0.8707	A	3.9
8	☐			5319.91	0.0003	P	16.7

$$y = 8.6849E-004 * x + 2.5955E-005$$

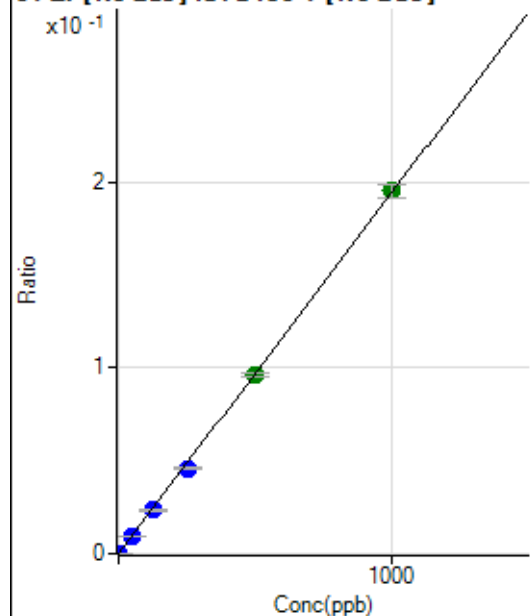
$$R = 1.0000$$

$$DL = 0.0002159$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	78.89	0.0000	P	21.9
2	☐	1.000	0.865	3259.28	0.0002	P	4.0
3	☐	50.000	47.428	171433.13	0.0092	P	2.6
4	☐	125.000	120.619	430797.02	0.0234	P	1.9
5	☐	250.000	236.840	862376.53	0.0460	P	3.1
6	☐	500.000	496.669	1762232.53	0.0964	A	1.8
7	☐	1000.000	1005.632	3630513.83	0.1952	A	3.8
8	☐			1100.05	0.0001	P	20.8

$$y = 1.9413E-004 * x + 4.3570E-006$$

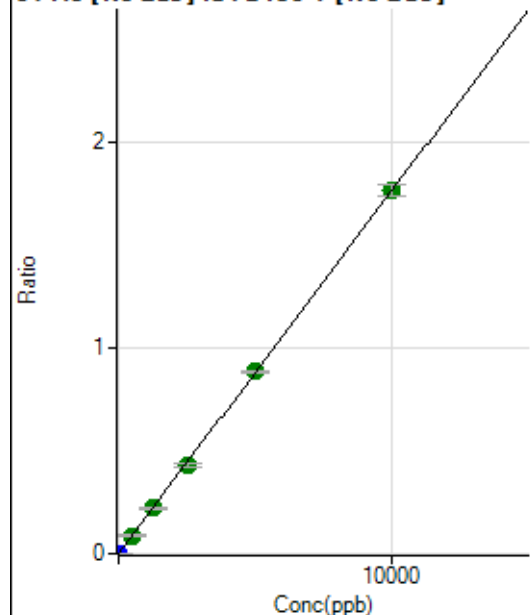
$$R = 0.9999$$

$$DL = 0.01477$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	165.56	0.0000	P	7.6
2	☐	5.000	5.131	17261.41	0.0009	P	3.1
3	☐	500.000	499.745	1637387.22	0.0880	A	1.7
4	☐	1250.000	1254.293	4060905.08	0.2208	A	2.1
5	☐	2500.000	2440.210	8056182.38	0.4295	A	2.4
6	☐	5000.000	5016.606	16139005.32	0.8830	A	0.8
7	☐	10000.000	10006.121	32757567.01	1.7612	A	3.1
8	☐			10130.36	0.0006	P	22.2

$$y = 1.7601\text{E-}004 * x + 9.1577\text{E-}006$$

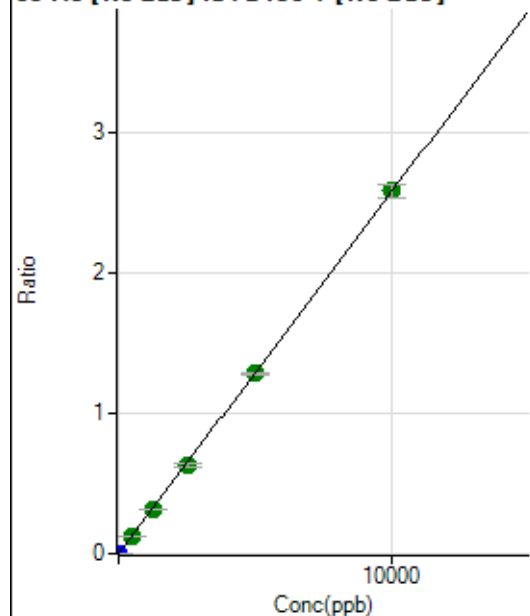
$$R = 1.0000$$

$$DL = 0.0119$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	106.67	0.0000	P	8.7
2	☐	5.000	4.300	21030.76	0.0011	P	4.3
3	☐	500.000	496.044	2373851.08	0.1276	A	2.7
4	☐	1250.000	1230.443	5819963.32	0.3164	A	1.2
5	☐	2500.000	2432.595	11729273.71	0.6255	A	4.2
6	☐	5000.000	4974.286	23377122.71	1.2791	A	1.4
7	☐	10000.000	10032.351	47974870.95	2.5797	A	3.8
8	☐			12877.05	0.0008	P	22.9

$$y = 2.5714\text{E-}004 * x + 5.9069\text{E-}006$$

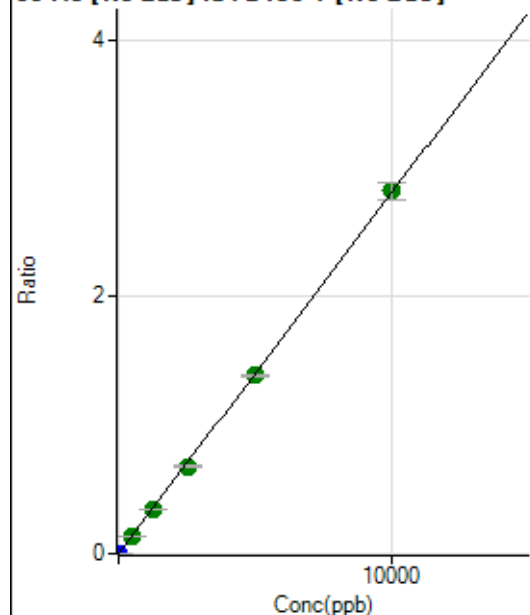
$$R = 1.0000$$

$$DL = 0.005997$$

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	127.78	0.0000	P	20.4
2	☐	5.000	4.411	23554.65	0.0012	P	3.6
3	☐	500.000	492.020	2569035.93	0.1381	A	3.5
4	☐	1250.000	1216.640	6279406.16	0.3414	A	1.9
5	☐	2500.000	2422.357	12745996.62	0.6797	A	3.6
6	☐	5000.000	4937.080	25319601.57	1.3853	A	0.8
7	☐	10000.000	10055.440	52463539.77	2.8214	A	4.5
8	☐			34113.45	0.0020	P	12.2

$$y = 2.8058E-004 * x + 7.0926E-006$$

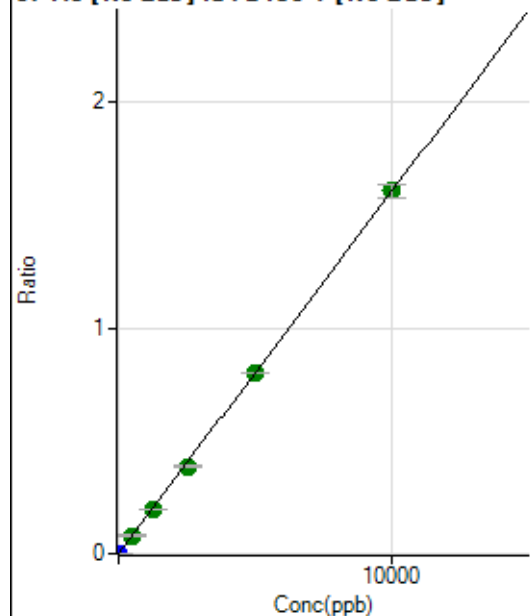
$$R = 0.9999$$

$$DL = 0.01544$$

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	33.33	0.0000	P	51.9
2	☐	5.000	4.288	13045.90	0.0007	P	3.2
3	☐	500.000	496.057	1480011.46	0.0795	A	4.2
4	☐	1250.000	1229.989	3627932.72	0.1972	A	2.0
5	☐	2500.000	2411.215	7250974.61	0.3866	A	3.3
6	☐	5000.000	4997.022	14645526.86	0.8013	A	0.6
7	☐	10000.000	10026.384	29898904.28	1.6077	A	3.7
8	☐			8125.72	0.0005	P	24.9

$$y = 1.6035E-004 * x + 1.8585E-006$$

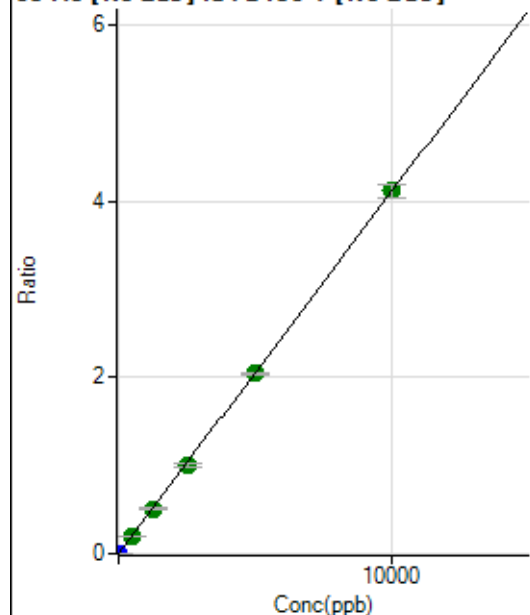
$$R = 1.0000$$

$$DL = 0.01805$$

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	51.11	0.0000	P	15.4
2	☐	5.000	4.328	33660.95	0.0018	P	2.6
3	☐	500.000	495.648	3784503.66	0.2034	A	3.7
4	☐	1250.000	1237.478	9340044.58	0.5078	A	2.3
5	☐	2500.000	2434.305	18733127.36	0.9989	A	3.3
6	☐	5000.000	4983.369	37373642.77	2.0449	A	1.1
7	☐	10000.000	10026.522	76512566.63	4.1142	A	3.7
8	☐			19595.99	0.0012	P	25.4

$$y = 4.1034\text{E-}004 * x + 2.8347\text{E-}006$$

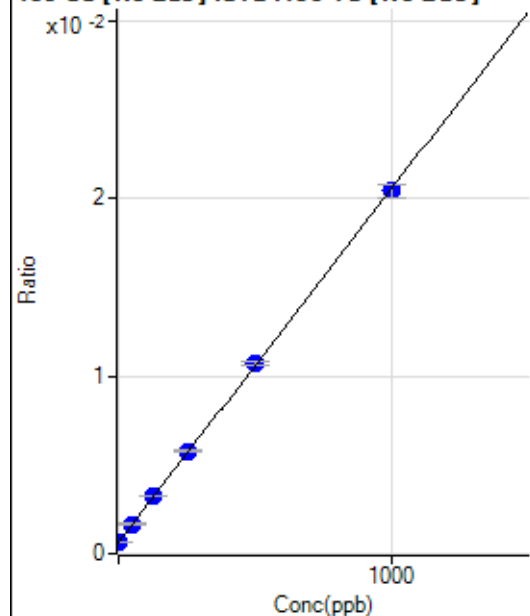
$$R = 1.0000$$

$$DL = 0.003192$$

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	7512.02	0.0006	P	1.7
2	☐	1.000	0.511	7831.06	0.0007	P	2.3
3	☐	50.000	51.853	20022.79	0.0017	P	1.2
4	☐	125.000	131.052	38627.95	0.0033	P	2.2
5	☐	250.000	258.285	69096.86	0.0058	P	2.7
6	☐	500.000	506.526	127141.45	0.0107	P	1.2
7	☐	1000.000	993.817	248243.76	0.0204	P	4.0
8	☐			7156.29	0.0007	P	1.8

$$y = 1.9921\text{E-}005 * x + 6.4507\text{E-}004$$

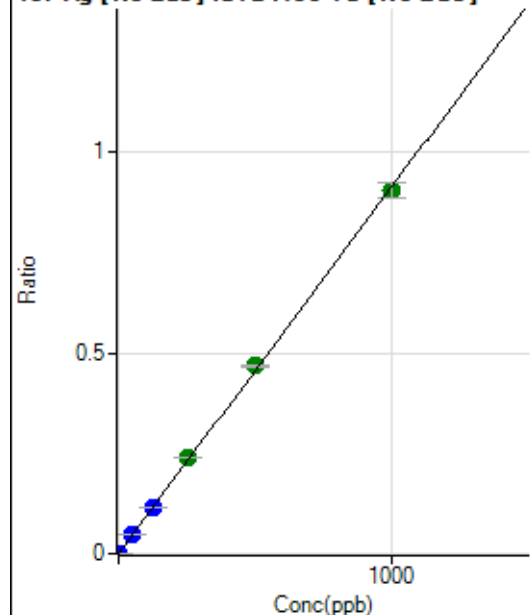
$$R = 0.9999$$

$$DL = 1.696$$

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	111.11	0.0000	P	10.4
2	☐	1.000	0.949	10477.19	0.0009	P	0.9
3	☐	50.000	51.141	557359.68	0.0467	P	2.3
4	☐	125.000	126.847	1374470.81	0.1158	P	2.1
5	☐	250.000	262.585	2862071.87	0.2398	A	1.3
6	☐	500.000	513.191	5551698.11	0.4687	A	1.2
7	☐	1000.000	989.971	10977897.34	0.9041	A	4.2
8	☐			5237.68	0.0005	P	14.7

$$y = 9.1323\text{E-}004 * x + 9.5400\text{E-}006$$

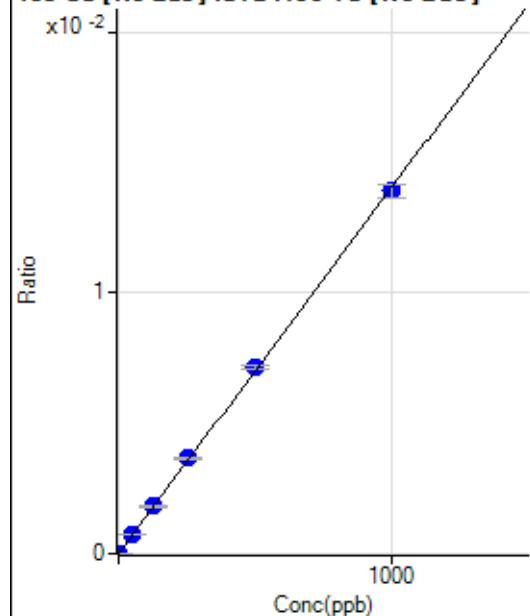
$$R = 0.9998$$

$$DL = 0.003244$$

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	16.67	0.0000	P	19.9
2	☐	1.000	0.966	178.89	0.0000	P	9.8
3	☐	50.000	53.656	8992.86	0.0008	P	2.7
4	☐	125.000	129.070	21486.04	0.0018	P	2.4
5	☐	250.000	261.255	43728.00	0.0037	P	2.1
6	☐	500.000	509.729	84673.10	0.0071	P	1.2
7	☐	1000.000	991.630	168837.09	0.0139	P	4.0
8	☐			110.00	0.0000	P	7.3

$$y = 1.4020\text{E-}005 * x + 1.4310\text{E-}006$$

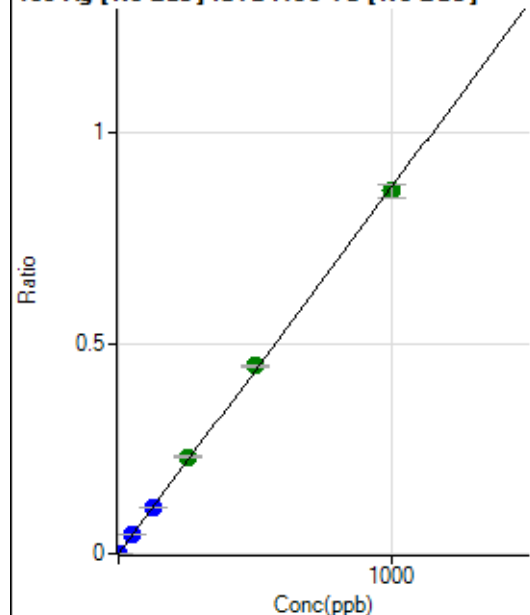
$$R = 0.9999$$

$$DL = 0.06095$$

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	23.33	0.0000	P	37.8
2	☐	1.000	0.961	10026.89	0.0008	P	2.3
3	☐	50.000	51.097	531073.14	0.0445	P	2.0
4	☐	125.000	126.097	1303099.32	0.1098	P	2.7
5	☐	250.000	263.079	2734799.75	0.2292	A	1.5
6	☐	500.000	512.946	5291661.66	0.4468	A	0.9
7	☐	1000.000	990.065	10472449.50	0.8624	A	3.7
8	☐			4879.76	0.0005	P	13.7

$$y = 8.7103\text{E-}004 * x + 2.0038\text{E-}006$$

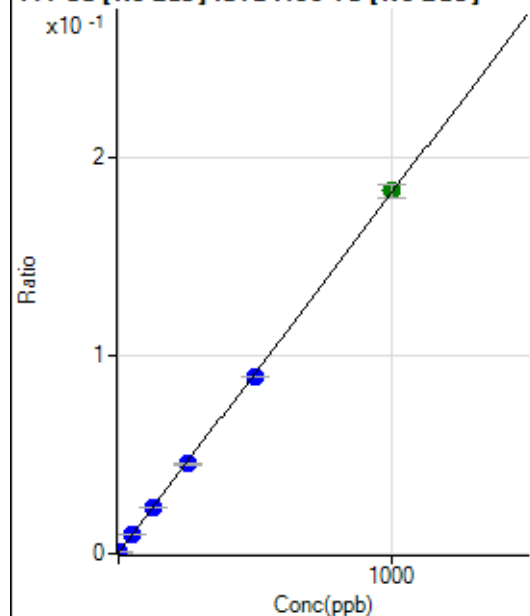
$$R = 0.9998$$

$$DL = 0.002608$$

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	5260.07	0.0005	P	1.6
2	☐	1.000	0.942	7445.58	0.0006	P	2.4
3	☐	50.000	50.613	115216.39	0.0097	P	1.7
4	☐	125.000	126.431	278152.59	0.0234	P	2.6
5	☐	250.000	247.907	543462.47	0.0455	P	1.8
6	☐	500.000	488.315	1057240.05	0.0893	P	0.2
7	☐	1000.000	1006.156	2227789.33	0.1834	A	3.5
8	☐			5732.44	0.0005	P	3.7

$$y = 1.8186\text{E-}004 * x + 4.5169\text{E-}004$$

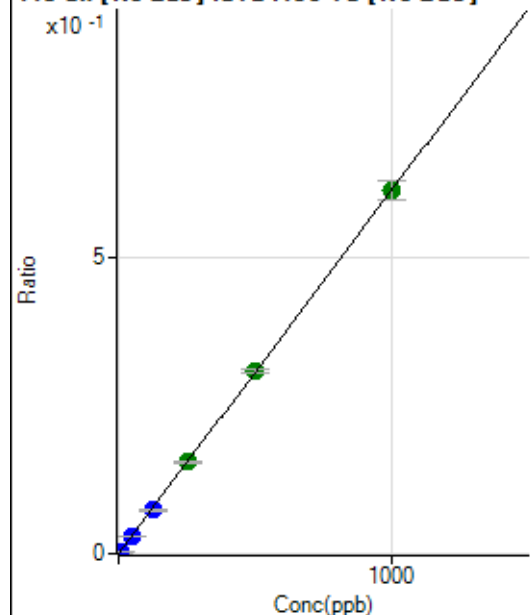
$$R = 0.9999$$

$$DL = 0.1178$$

Weight: <None>

Min Conc: 0

118 Sn [No Gas] ISTD :159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	594.46	0.0001	P	3.4
2	☐	5.000	4.441	33079.15	0.0028	P	2.4
3	☐	50.000	48.258	352849.58	0.0296	P	2.0
4	☐	125.000	119.914	870930.87	0.0734	P	2.3
5	☐	250.000	252.291	1842577.49	0.1544	A	2.5
6	☐	500.000	502.525	3641433.49	0.3075	A	1.4
7	☐	1000.000	998.890	7419427.39	0.6111	A	5.3
8	☐			5781.23	0.0005	P	9.1

$$y = 6.1175E-004 * x + 5.1044E-005$$

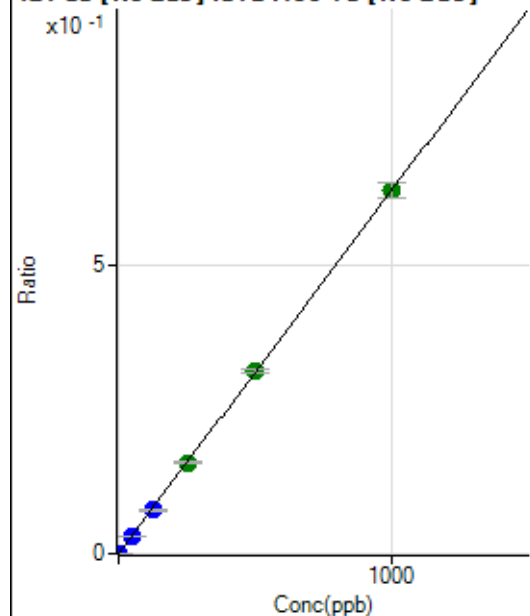
$$R = 1.0000$$

$$DL = 0.008585$$

Weight: <None>

Min Conc: 0

121 Sb [No Gas] ISTD :159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	60.00	0.0000	P	5.5
2	☐	2.000	1.747	13218.40	0.0011	P	2.5
3	☐	50.000	47.595	357975.38	0.0300	P	2.1
4	☐	125.000	119.720	895292.46	0.0755	P	2.0
5	☐	250.000	249.596	1877456.29	0.1573	A	1.8
6	☐	500.000	503.004	3754779.04	0.3170	A	1.4
7	☐	1000.000	999.380	7648509.74	0.6299	A	4.1
8	☐			4979.80	0.0005	P	4.0

$$y = 6.3027E-004 * x + 5.1520E-006$$

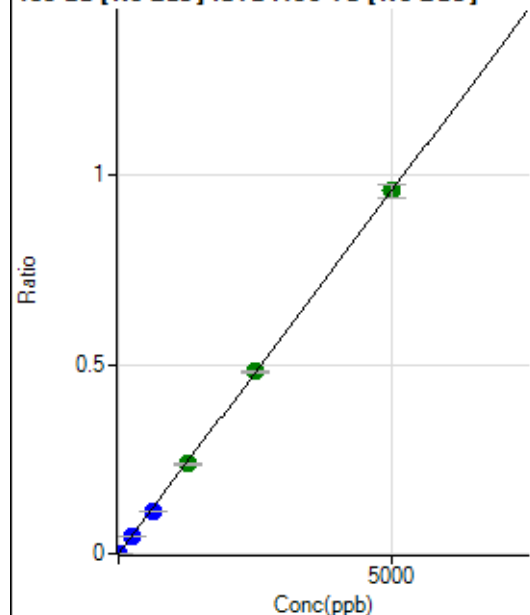
$$R = 1.0000$$

$$DL = 0.001338$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	24.44	0.0000	P	20.9
2	☐	10.000	8.496	19482.34	0.0016	P	2.1
3	☐	250.000	230.999	528044.69	0.0443	P	2.4
4	☐	625.000	578.214	1314317.15	0.1108	P	2.1
5	☐	1250.000	1243.893	2843996.97	0.2383	A	2.0
6	☐	2500.000	2513.130	5703673.53	0.4815	A	1.2
7	☐	5000.000	5001.763	11636222.33	0.9583	A	4.0
8	☐			7236.36	0.0007	P	11.9

$$y = 1.9159\text{E-}004 * x + 2.0991\text{E-}006$$

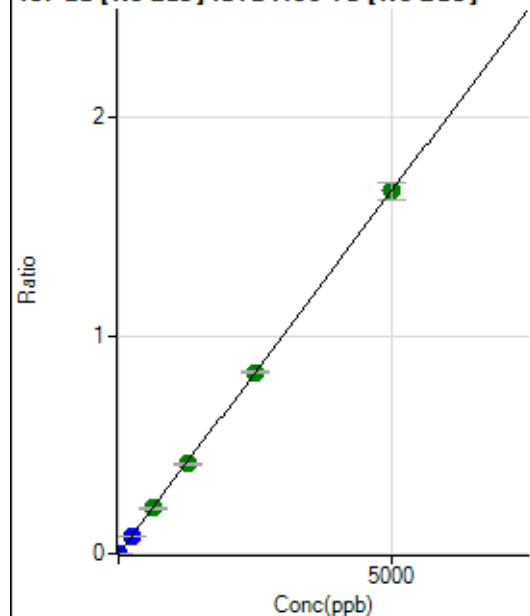
$$R = 1.0000$$

$$DL = 0.006861$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	32.22	0.0000	P	33.2
2	☐	10.000	8.581	34166.67	0.0029	P	2.4
3	☐	250.000	230.604	915686.17	0.0767	P	1.7
4	☐	625.000	625.608	2470092.34	0.2082	A	1.3
5	☐	1250.000	1235.022	4904992.88	0.4110	A	1.5
6	☐	2500.000	2504.607	9872882.63	0.8335	A	0.8
7	☐	5000.000	5002.338	20212009.84	1.6647	A	4.5
8	☐			12752.51	0.0012	P	8.8

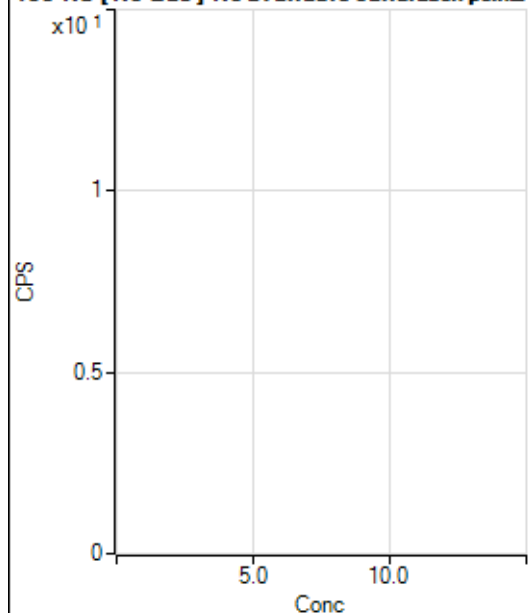
$$y = 3.3277\text{E-}004 * x + 2.7661\text{E-}006$$

$$R = 1.0000$$

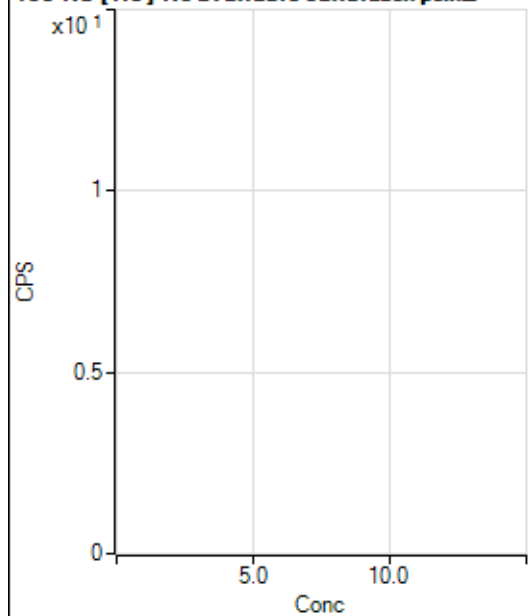
$$DL = 0.008267$$

Weight: <None>

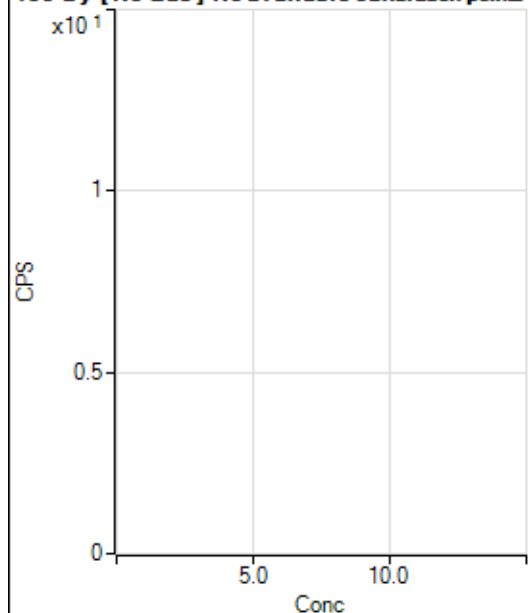
Min Conc: 0

150 Nd [No Gas] No available calibration points

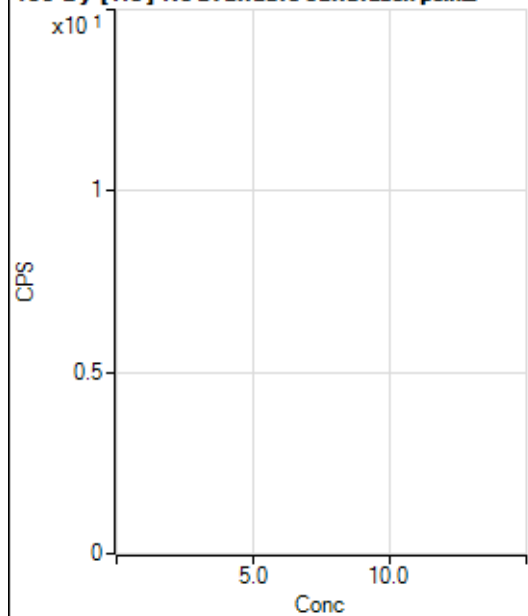
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	107.
2	☐			8.89		P	21.6
3	☐			86.67		P	37.9
4	☐			227.78		P	16.3
5	☐			444.46		P	3.5
6	☐			920.04		P	7.5
7	☐			1834.58		P	4.0
8	☐			81.11		P	9.5

150 Nd [He] No available calibration points

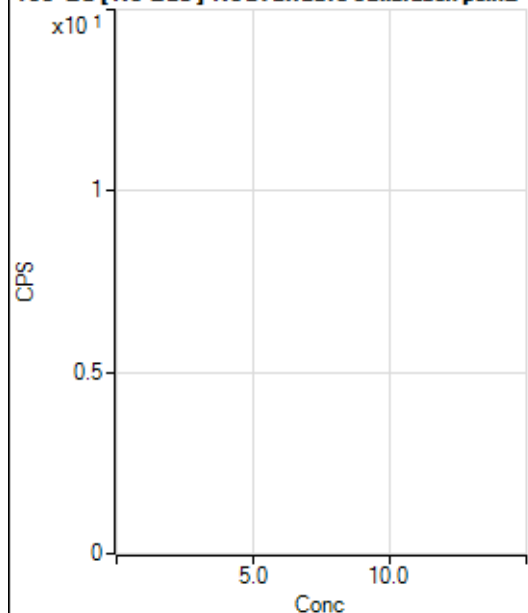
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			5.55		P	124.
3	☐			26.67		P	69.6
4	☐			41.11		P	41.6
5	☐			76.67		P	11.5
6	☐			194.45		P	9.4
7	☐			337.79		P	6.7
8	☐			30.00		P	29.4

156 Dy [No Gas] No available calibration points

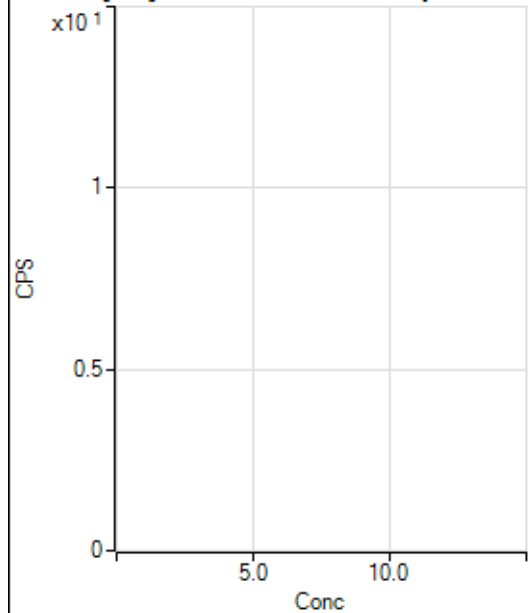
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	34.7
2	☐			10.00		P	57.7
3	☐			75.55		P	17.8
4	☐			100.00		P	16.7
5	☐			178.89		P	5.7
6	☐			383.34		P	14.5
7	☐			804.48		P	7.0
8	☐			1904.59		P	7.3

156 Dy [He] No available calibration points

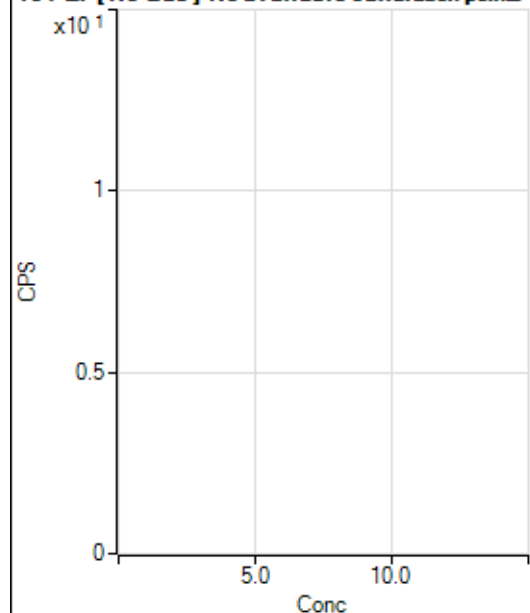
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			11.11		P	45.8
3	☐			45.55		P	42.9
4	☐			74.44		P	17.0
5	☐			176.67		P	15.1
6	☐			352.23		P	6.8
7	☐			763.36		P	0.4
8	☐			1222.29		P	6.7

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

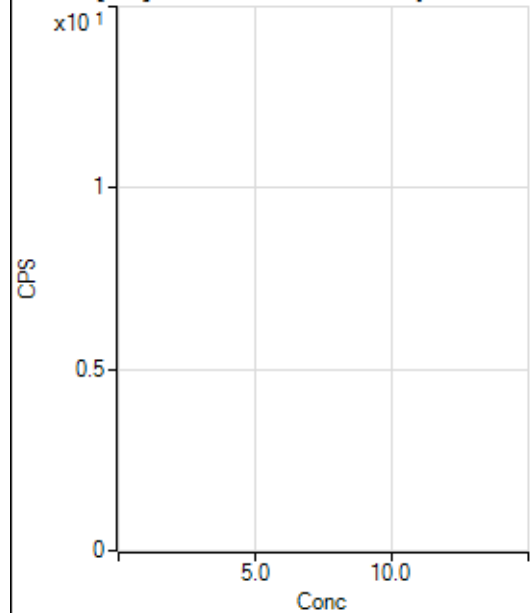
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			55.56		P	21.1
2	☐			44.44		P	22.9
3	☐			88.89		P	30.5
4	☐			97.78		P	17.2
5	☐			202.23		P	6.9
6	☐			316.67		P	6.6
7	☐			631.13		P	3.8
8	☐			2105.74		P	0.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			302.23		P	8.8
2	☐			293.34		P	6.9
3	☐			320.01		P	4.5
4	☐			360.01		P	9.8
5	☐			424.46		P	2.0
6	☐			447.79		P	15.7
7	☐			711.14		P	3.3
8	☐			1735.68		P	1.0

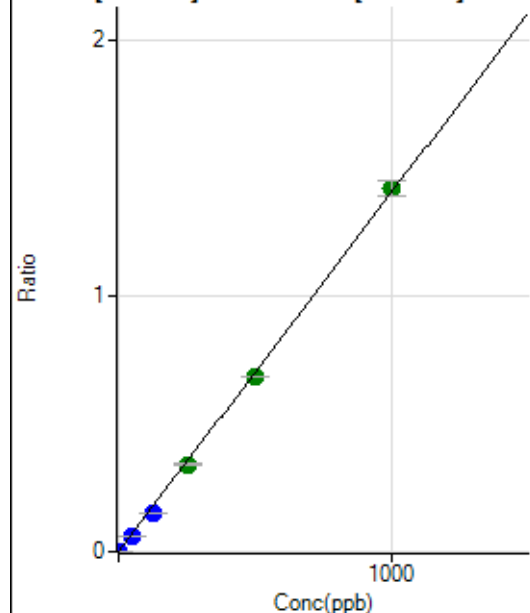
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			74.44		P	29.8
2	☐			100.00		P	17.6
3	☐			104.45		P	27.1
4	☐			103.33		P	14.8
5	☐			127.78		P	19.9
6	☐			161.12		P	22.8
7	☐			236.67		P	5.6
8	☐			173.34		P	27.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			55.56		P	25.0
2	☐			43.33		P	7.7
3	☐			55.56		P	3.5
4	☐			51.11		P	49.4
5	☐			82.22		P	6.2
6	☐			88.89		P	15.2
7	☐			132.22		P	11.9
8	☐			93.33		P	7.1

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94.45	0.0000	P	39.1
2	☐	1.000	0.797	8964.14	0.0011	P	1.0
3	☐	50.000	42.967	478961.91	0.0604	P	2.3
4	☐	125.000	108.458	1193207.09	0.1524	P	2.1
5	☐	250.000	242.776	2704337.70	0.3412	A	2.8
6	☐	500.000	488.205	5272154.43	0.6861	A	0.2
7	☐	1000.000	1010.123	10826314.98	1.4195	A	4.2
8	☐			2135.76	0.0004	P	32.1

$$y = 0.0014 * x + 1.2375E-005$$

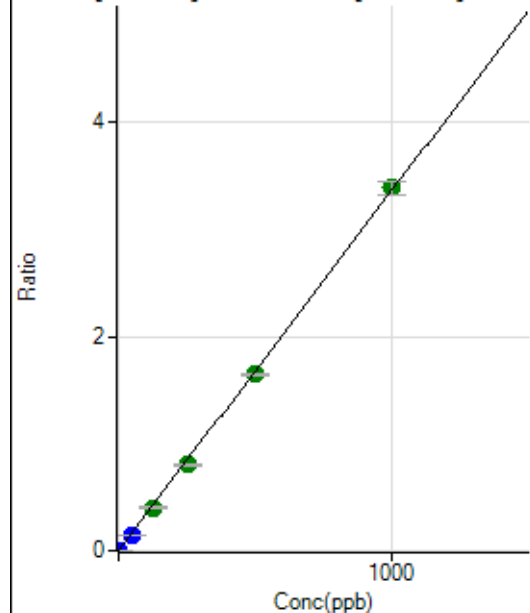
$$R = 0.9998$$

$$DL = 0.01033$$

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	230.00	0.0000	P	9.2
2	☐	1.000	0.775	20847.15	0.0026	P	2.0
3	☐	50.000	42.322	1128834.42	0.1423	P	2.2
4	☐	125.000	120.117	3162011.69	0.4039	A	1.6
5	☐	250.000	239.124	6373071.99	0.8041	A	3.2
6	☐	500.000	490.366	12670342.73	1.6488	A	1.2
7	☐	1000.000	1008.531	25865301.01	3.3911	A	3.9
8	☐			4974.36	0.0008	P	31.9

$$y = 0.0034 * x + 3.0096E-005$$

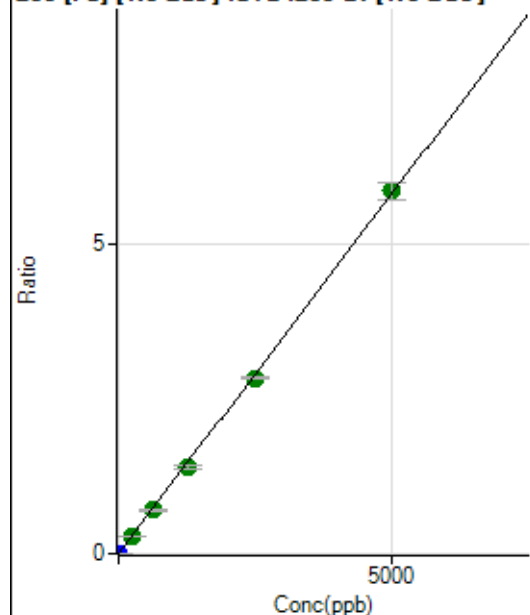
$$R = 0.9999$$

$$DL = 0.002467$$

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	511.13	0.0001	P	7.4
2	☐	1.000	0.783	7733.38	0.0010	P	2.4
3	☐	250.000	238.398	2199814.86	0.2774	A	2.4
4	☐	625.000	605.797	5516861.41	0.7047	A	2.3
5	☐	1250.000	1204.057	11102663.17	1.4007	A	3.2
6	☐	2500.000	2440.976	21820900.09	2.8395	A	0.5
7	☐	5000.000	5043.978	44744712.11	5.8673	A	4.7
8	☐			11987.71	0.0020	P	19.6

$$y = 0.0012 * x + 6.6936E-005$$

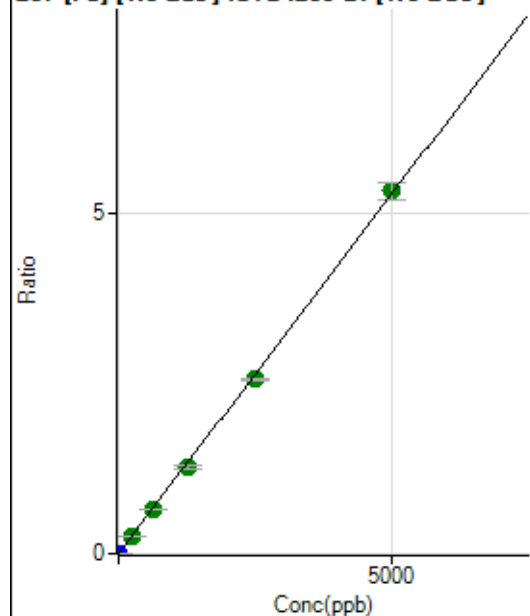
$$R = 0.9999$$

$$DL = 0.01279$$

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	415.57	0.0001	P	5.4
2	☐	1.000	0.751	6709.49	0.0008	P	2.8
3	☐	250.000	238.607	1999516.55	0.2521	A	2.1
4	☐	625.000	610.259	5047068.26	0.6447	A	2.0
5	☐	1250.000	1206.199	10100642.70	1.2743	A	3.2
6	☐	2500.000	2428.998	19719449.84	2.5660	A	0.8
7	☐	5000.000	5048.864	40673048.56	5.3336	A	5.0
8	☐			10547.64	0.0017	P	20.5

$$y = 0.0011 * x + 5.4355E-005$$

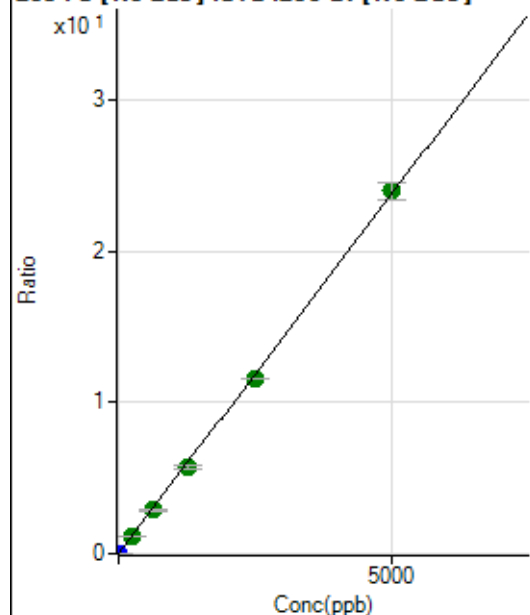
$$R = 0.9998$$

$$DL = 0.008266$$

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	1993.41	0.0003	P	7.0
2	☐	1.000	0.768	30960.77	0.0039	P	1.4
3	☐	250.000	238.789	9006015.61	1.1356	A	2.2
4	☐	625.000	605.818	22550107.41	2.8806	A	1.7
5	☐	1250.000	1203.673	45365632.73	5.7230	A	2.9
6	☐	2500.000	2439.180	89121966.45	11.5971	A	0.5
7	☐	5000.000	5044.950	182921075.8	23.9860	A	4.7
8	☐			48106.96	0.0079	P	21.5

$$y = 0.0048 * x + 2.6103E-004$$

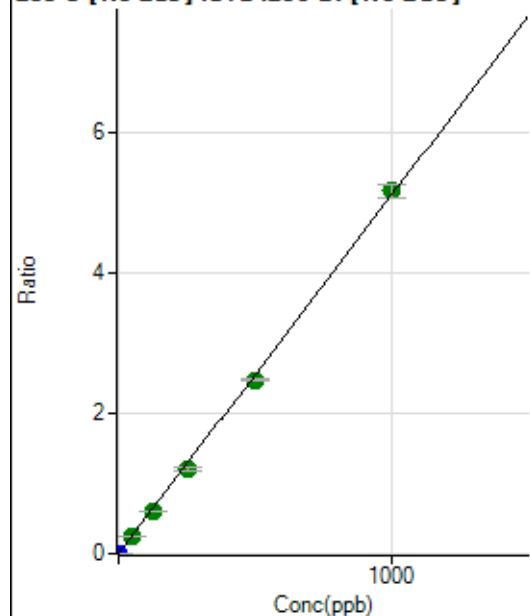
$$R = 0.9998$$

$$DL = 0.01151$$

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	14.44	0.0000	P	13.0
2	☐	1.000	0.740	29861.30	0.0038	P	1.2
3	☐	50.000	46.697	1888206.26	0.2381	A	2.0
4	☐	125.000	118.213	4717803.85	0.6027	A	2.6
5	☐	250.000	236.265	9547955.76	1.2045	A	2.9
6	☐	500.000	484.816	18993767.77	2.4717	A	1.2
7	☐	1000.000	1012.039	39355853.58	5.1596	A	3.7
8	☐			5730.32	0.0009	P	38.9

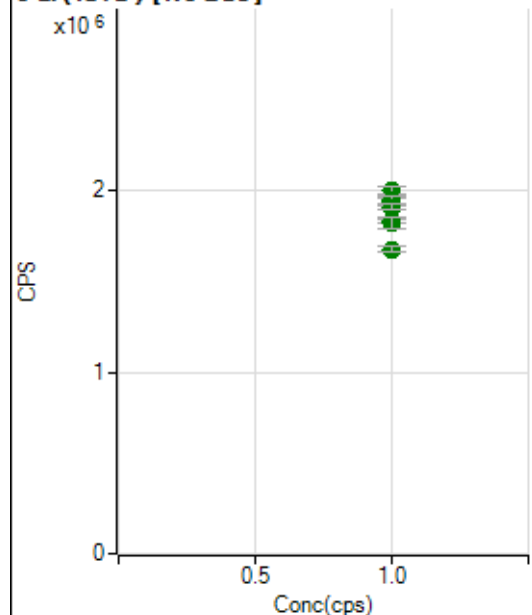
$$y = 0.0051 * x + 1.8893E-006$$

$$R = 0.9997$$

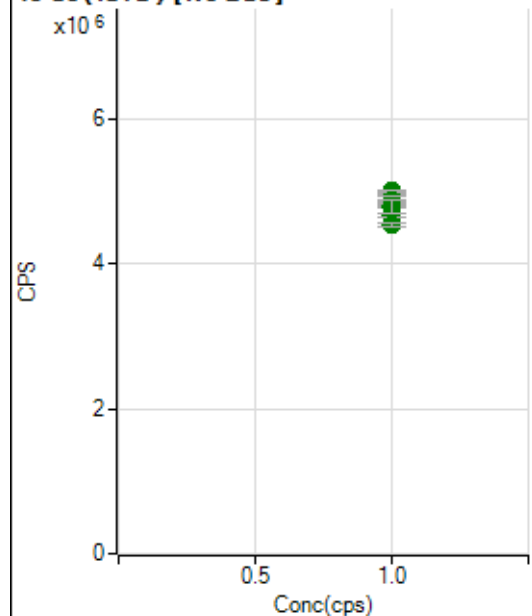
$$DL = 0.0001449$$

Weight: <None>

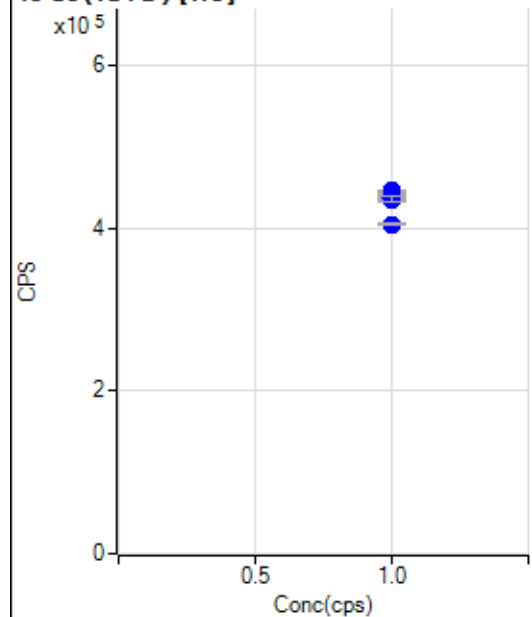
Min Conc: 0

6 Li (ISTD) [No Gas]

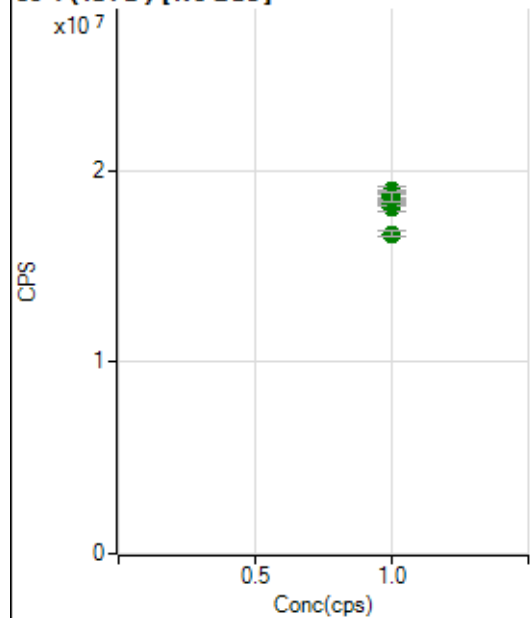
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1938137.54		A	2.2
2	☐	1.000		1997310.96		A	2.1
3	☐	1.000		1947855.14		A	2.3
4	☐	1.000		1902931.36		A	1.3
5	☐	1.000		1908363.37		A	1.6
6	☐	1.000		1834147.49		A	1.4
7	☐	1.000		1819994.30		A	3.4
8	☐	1.000		1675730.29		A	2.1

45 Sc (ISTD) [No Gas]

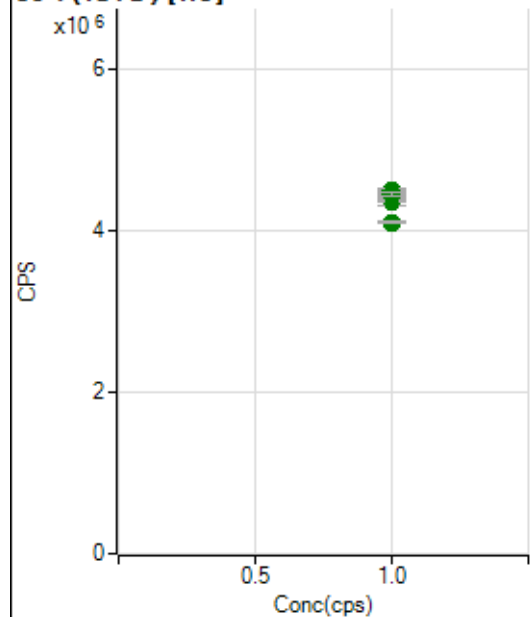
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4873933.61		A	3.4
2	☐	1.000		5003801.42		A	0.4
3	☐	1.000		4891680.03		A	2.1
4	☐	1.000		4783389.20		A	0.8
5	☐	1.000		4795333.82		A	1.1
6	☐	1.000		4671571.49		A	1.5
7	☐	1.000		4786701.21		A	3.4
8	☐	1.000		4534822.88		A	1.2

45 Sc (ISTD) [He]

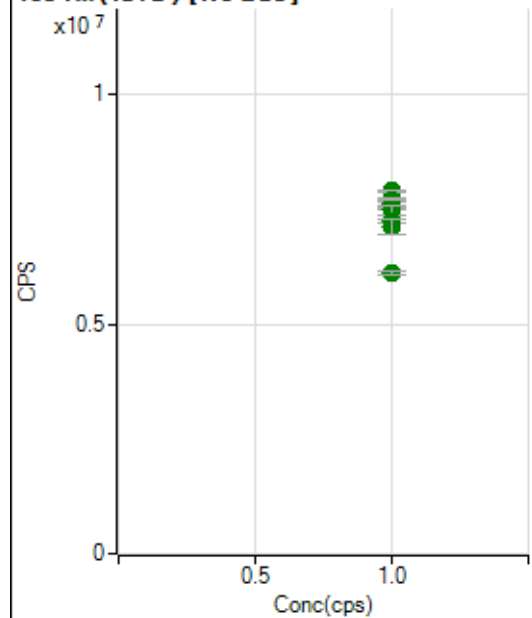
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		440277.84		P	0.9
2	☐	1.000		445341.93		P	0.2
3	☐	1.000		440391.19		P	0.6
4	☐	1.000		435810.90		P	0.5
5	☐	1.000		435962.58		P	0.6
6	☐	1.000		435466.24		P	0.8
7	☐	1.000		435700.97		P	1.6
8	☐	1.000		404172.51		P	0.6

89 Y (ISTD) [No Gas]

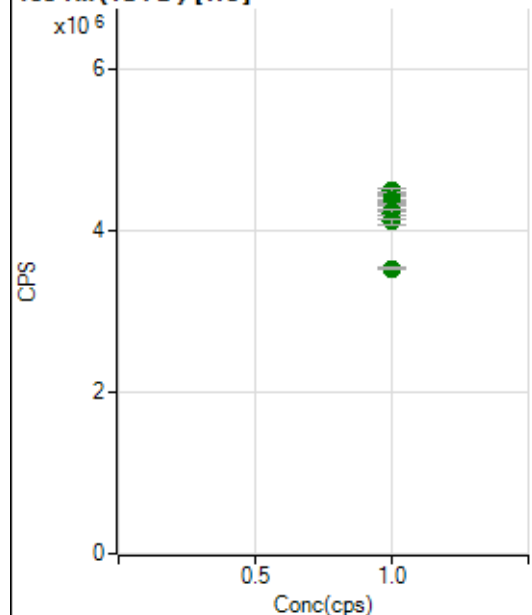
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		18065723.90		A	2.2
2	☐	1.000		18930246.25		A	2.2
3	☐	1.000		18617356.53		A	2.2
4	☐	1.000		18396203.89		A	1.2
5	☐	1.000		18763074.72		A	2.2
6	☐	1.000		18278899.73		A	1.6
7	☐	1.000		18608700.14		A	2.7
8	☐	1.000		16693399.75		A	2.0

89 Y(ISTD) [He]

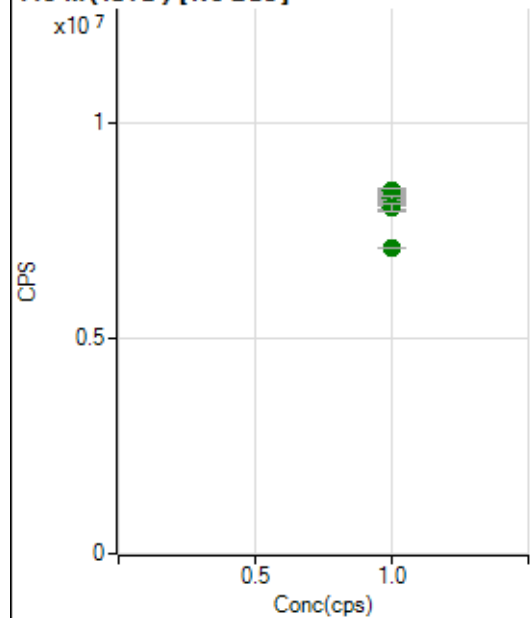
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4492559.41		A	0.6
2	☐	1.000		4497308.75		A	1.1
3	☐	1.000		4408375.94		A	0.8
4	☐	1.000		4355698.72		A	1.6
5	☐	1.000		4377418.41		A	1.1
6	☐	1.000		4426666.74		A	1.5
7	☐	1.000		4448864.62		A	1.1
8	☐	1.000		4102496.08		A	0.7

103 Rh(ISTD) [No Gas]

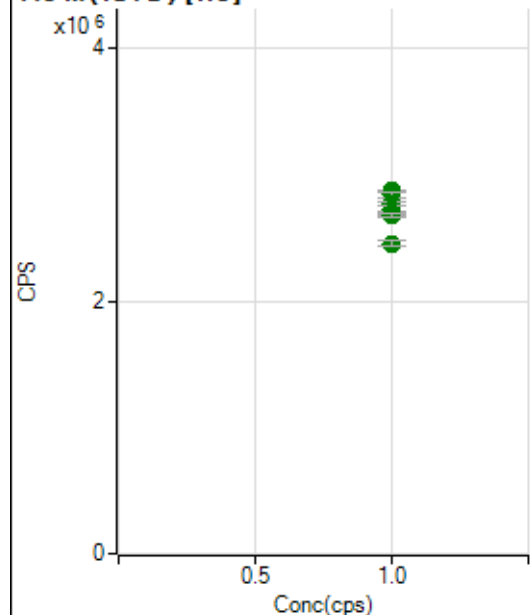
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7620465.93		A	1.5
2	☐	1.000		7901244.40		A	0.5
3	☐	1.000		7726057.59		A	1.0
4	☐	1.000		7517196.14		A	0.5
5	☐	1.000		7479339.82		A	2.4
6	☐	1.000		7249476.97		A	0.8
7	☐	1.000		7113830.66		A	4.3
8	☐	1.000		6100565.88		A	1.3

103 Rh (ISTD) [He]

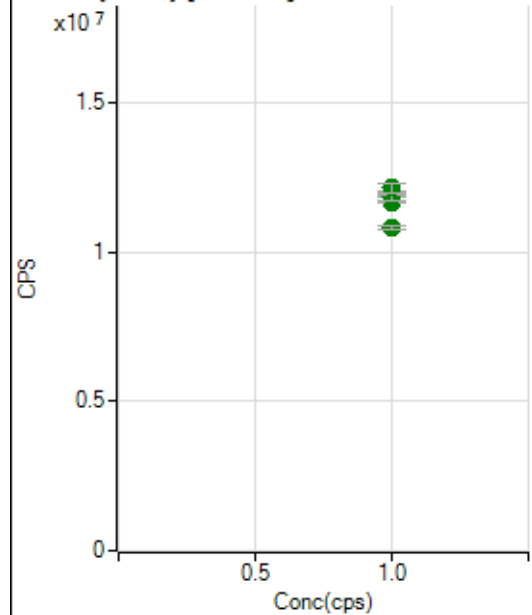
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4442920.32		A	0.5
2	☐	1.000		4490274.24		A	1.1
3	☐	1.000		4375758.06		A	0.4
4	☐	1.000		4320187.19		A	0.8
5	☐	1.000		4245503.96		A	0.4
6	☐	1.000		4222233.44		A	1.4
7	☐	1.000		4116606.71		A	1.7
8	☐	1.000		3528995.43		A	0.7

115 In (ISTD) [No Gas]

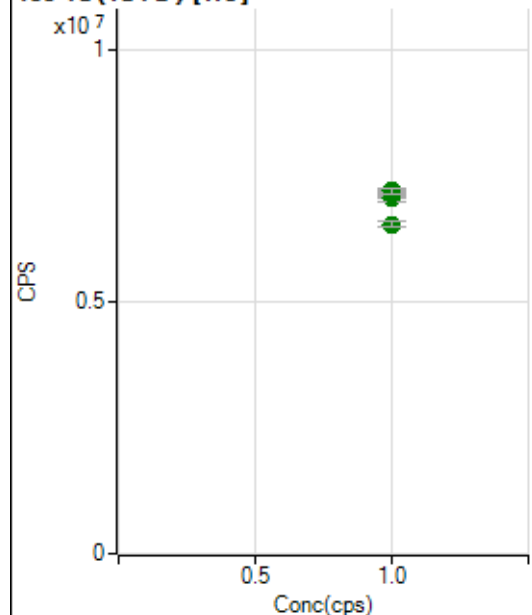
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8199675.72		A	1.7
2	☐	1.000		8426910.16		A	0.6
3	☐	1.000		8441421.84		A	1.5
4	☐	1.000		8233911.70		A	0.6
5	☐	1.000		8280438.12		A	1.3
6	☐	1.000		8040805.83		A	0.9
7	☐	1.000		8055780.51		A	2.4
8	☐	1.000		7114694.69		A	0.5

115 In (ISTD) [He]

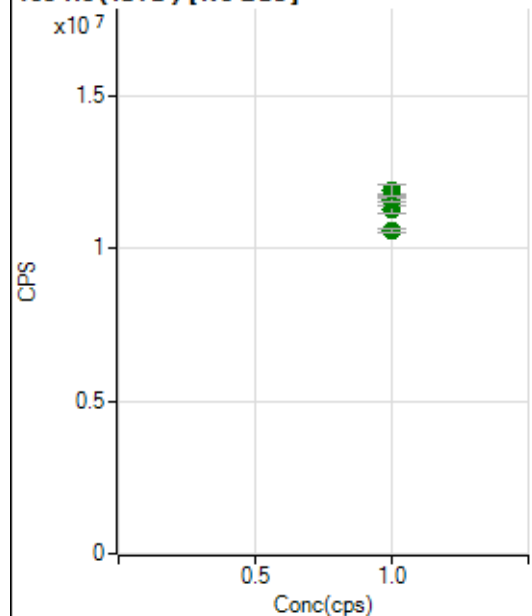
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2821458.46		A	0.2
2	☐	1.000		2873210.22		A	0.6
3	☐	1.000		2841342.99		A	1.5
4	☐	1.000		2767553.98		A	1.3
5	☐	1.000		2729385.67		A	2.1
6	☐	1.000		2700177.55		A	1.0
7	☐	1.000		2678353.92		A	1.2
8	☐	1.000		2459085.29		A	1.4

159 Tb (ISTD) [No Gas]

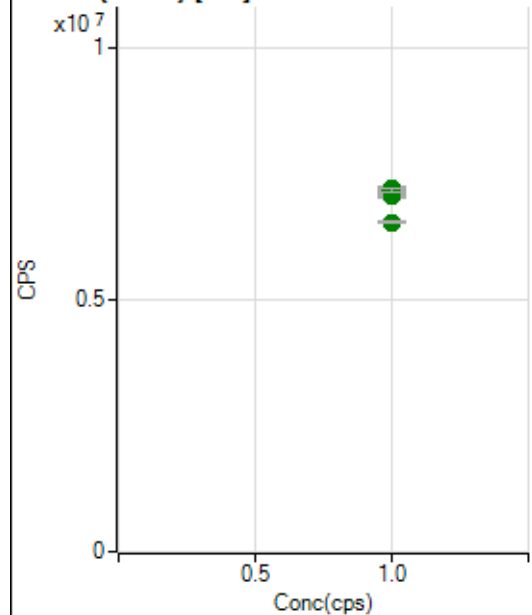
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11645582.88		A	0.2
2	☐	1.000		11952649.40		A	0.7
3	☐	1.000		11933515.79		A	1.4
4	☐	1.000		11865154.96		A	0.6
5	☐	1.000		11935850.10		A	1.4
6	☐	1.000		11844612.74		A	1.6
7	☐	1.000		12151303.99		A	2.6
8	☐	1.000		10817004.01		A	0.7

159 Tb (ISTD) [He]

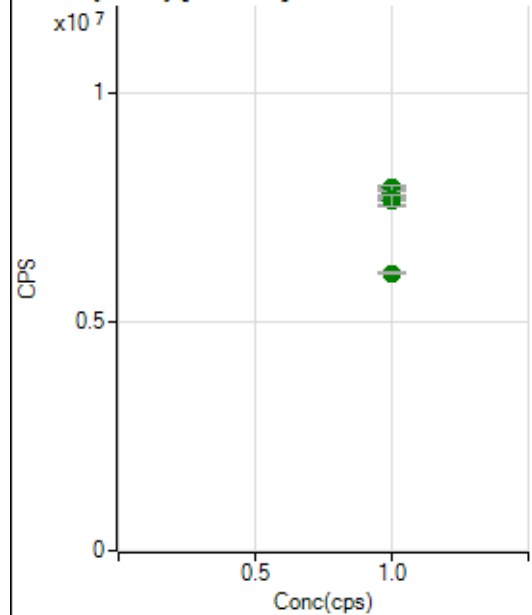
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7129764.48		A	1.3
2	☐	1.000		7112408.30		A	0.8
3	☐	1.000		7065985.38		A	1.8
4	☐	1.000		7167493.71		A	1.4
5	☐	1.000		7210999.96		A	0.7
6	☐	1.000		7164207.88		A	0.5
7	☐	1.000		7205955.24		A	1.9
8	☐	1.000		6548228.23		A	1.4

165 Ho (ISTD) [No Gas]

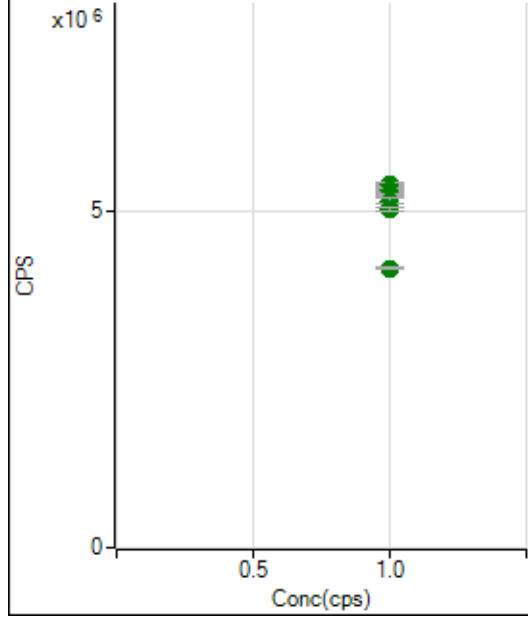
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11301823.58		A	2.3
2	☐	1.000		11625265.38		A	1.5
3	☐	1.000		11600578.85		A	1.3
4	☐	1.000		11683096.22		A	0.4
5	☐	1.000		11718711.91		A	1.0
6	☐	1.000		11612442.19		A	1.1
7	☐	1.000		11890463.44		A	3.2
8	☐	1.000		10560355.40		A	1.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7061335.45		A	0.7
2	☐	1.000		7065910.59		A	0.8
3	☐	1.000		7101876.08		A	1.2
4	☐	1.000		7140720.17		A	1.2
5	☐	1.000		7116567.25		A	0.4
6	☐	1.000		7208241.28		A	1.8
7	☐	1.000		7174715.87		A	1.0
8	☐	1.000		6537554.00		A	0.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7644351.55		A	2.2
2	☐	1.000		7911979.95		A	0.9
3	☐	1.000		7932070.51		A	1.0
4	☐	1.000		7829085.79		A	0.8
5	☐	1.000		7929489.81		A	2.0
6	☐	1.000		7684754.54		A	0.6
7	☐	1.000		7633813.71		A	3.2
8	☐	1.000		6074592.55		A	1.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5331985.69		A	1.0
2	☐	1.000		5388101.86		A	0.4
3	☐	1.000		5387720.37		A	1.2
4	☐	1.000		5317570.02		A	1.3
5	☐	1.000		5247329.57		A	0.5
6	☐	1.000		5150851.90		A	1.3
7	☐	1.000		5020145.65		A	0.9
8	☐	1.000		4153256.53		A	1.1

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7032923 MS.b
Acq. Date-Time 2023-03-29 07:42:21
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		8333	83331.65			0.437	5.000
24		99798	997984.31			0.625	5.000
25		13728	137279.39			0.393	5.000
26		15765	157652.66			0.299	5.000
59		81258	812581.48			0.692	5.000
113		10379	103790.32			0.472	5.000
115		137521	1375209.60			1.038	5.000
206		35325	353245.75			0.298	5.000
207		32602	326017.06			0.489	5.000
208		76009	760094.81			0.546	5.000
220		0	1.80			118.829	

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

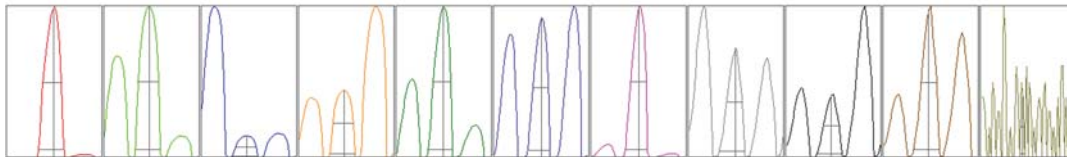
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	8312	8392	8300	8321	8341
24	99854	99177	100382	99147	100432
25	13805	13764	13679	13696	13695
26	15818	15806	15765	15725	15712
59	81855	81719	80947	80485	81285
113	10436	10417	10375	10313	10355
115	137228	139597	135766	136923	138091
206	35451	35410	35276	35191	35295
207	32555	32870	32472	32612	32499
208	75740	76596	75553	76244	75915

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	1	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	15497.15	9.00	8.90 - 9.10	
24	164232.21	23.95	23.90 - 24.10	
25	22527.96	24.95	24.90 - 25.10	
26	25506.37	25.95	25.90 - 26.10	
59	154012.42	59.00	58.90 - 59.10	
113	22174.89	113.05	112.90 - 113.10	
115	289625.59	115.05	114.90 - 115.10	
206	73343.39	206.00	205.90 - 206.10	
207	65046.99	206.95	206.90 - 207.10	
208	156153.82	207.95	207.90 - 208.10	
220	0.20	219.85	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.809	0.900	
24	0.65	0.789	0.900	
25	0.64	0.791	0.900	
26	0.65	0.793	0.900	
59	0.55	0.772	0.900	
113	0.48	0.712	0.900	
115	0.48	0.706	0.900	
206	0.49	0.809	0.900	
207	0.50	0.793	0.900	
208	0.49	0.817	0.900	
220	0.11	0.146		

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	9.5 V	Deflect	16.4 V
Extract 2	-120.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	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
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		28162	281624.32			0.511	
89		39008	390075.33			0.445	
205		31248	312477.27			0.579	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	28378	28136	28029	28224	28045
89	39305	38885	38924	39015	38908
205	31553	31111	31115	31251	31208

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.8 V	Deflect	3.6 V
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US EPA Tune Check Report

Extract 2	-100.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-65 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	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
---------------	--------	-----------	--------	----------	--------