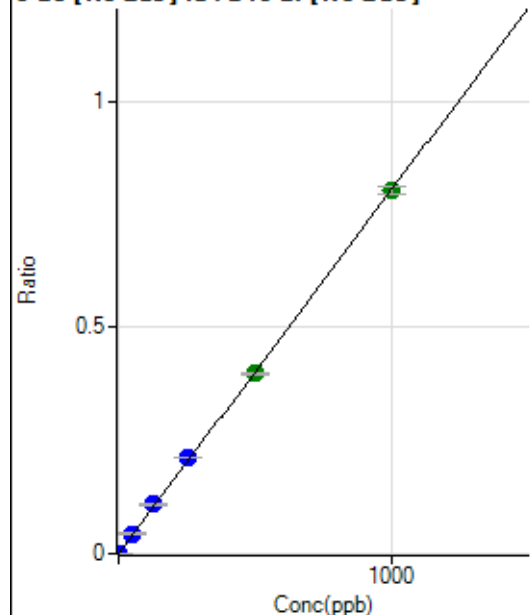


Calibration for 005CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7032623MS.b\
 Analysis File: P7032623MS.batch.bin
 DA Date-Time: 2023-03-26 20:06:51
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	002CALB.d	S00	2023-03-26 19:30:41
2	006CALS.d	S02	2023-03-26 19:43:42
3	007CALS.d	S03	2023-03-26 19:46:57
4	008CALS.d	S04	2023-03-26 19:49:57
5	009CALS.d	S05	2023-03-26 19:52:50
6	010CALS.d	S06	2023-03-26 19:55:38
7	011CALS.d	S07	2023-03-26 19:58:23
8	012CALS.d	S08	2023-03-26 20:01:11

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16.67	0.0000	P	20.0
2	☐	1.000	1.068	2383.54	0.0009	P	4.5
3	☐	50.000	54.878	121794.65	0.0441	P	3.4
4	☐	125.000	135.979	297586.59	0.1093	P	1.8
5	☐	250.000	265.313	567282.02	0.2133	P	0.7
6	☐	500.000	494.724	1057497.09	0.3976	A	0.8
7	☐	1000.000	997.193	2067979.36	0.8015	A	2.1
8	☐			747.80	0.0003	P	15.1

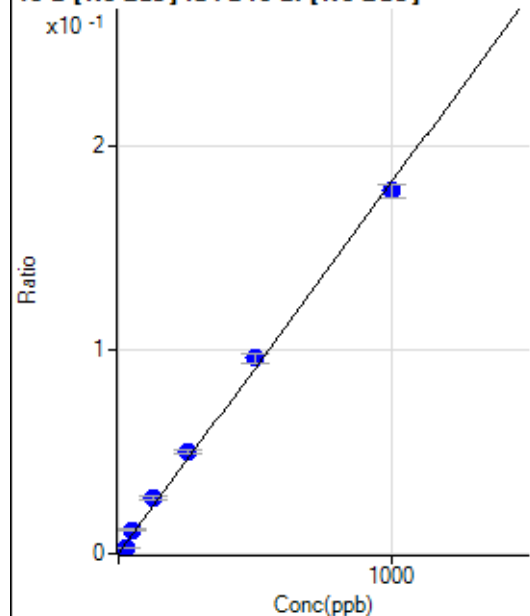
$$y = 8.0375E-004 * x + 6.0171E-006$$

$$R = 0.9998$$

$$DL = 0.004494$$

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	185.56	0.0001	P	5.7
2	☐	25.000	16.777	8610.23	0.0031	P	4.5
3	☐	50.000	63.469	32103.20	0.0116	P	6.9
4	☐	125.000	149.128	74128.23	0.0272	P	6.1
5	☐	250.000	275.681	133787.63	0.0503	P	3.9
6	☐	500.000	525.902	254956.38	0.0959	P	4.1
7	☐	1000.000	977.145	459445.36	0.1781	P	3.6
8	☐			14233.37	0.0061	P	14.5

$$y = 1.8219E-004 * x + 6.6985E-005$$

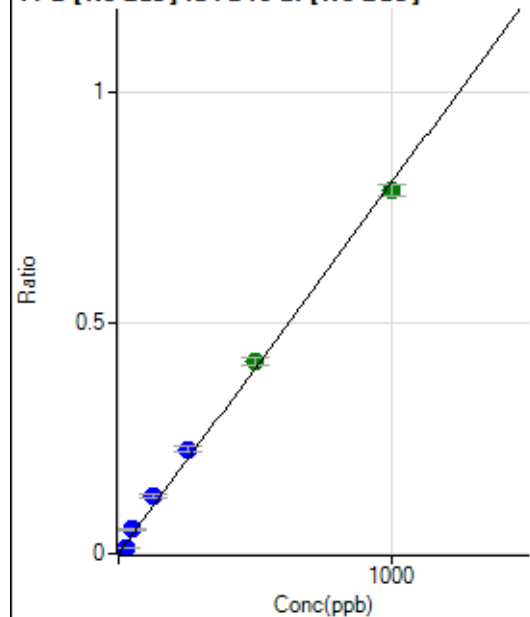
$$R = 0.9988$$

$$DL = 0.06328$$

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	753.36	0.0003	P	3.4
2	☐	25.000	16.902	38133.49	0.0138	P	4.8
3	☐	50.000	65.368	145527.68	0.0527	P	7.0
4	☐	125.000	153.971	337000.93	0.1238	P	5.5
5	☐	250.000	282.175	603018.35	0.2267	P	4.3
6	☐	500.000	519.038	1108186.69	0.4168	A	3.3
7	☐	1000.000	978.250	2025738.18	0.7852	A	3.3
8	☐			64852.88	0.0279	P	13.6

$$y = 8.0241\text{E-}004 * x + 2.7205\text{E-}004$$

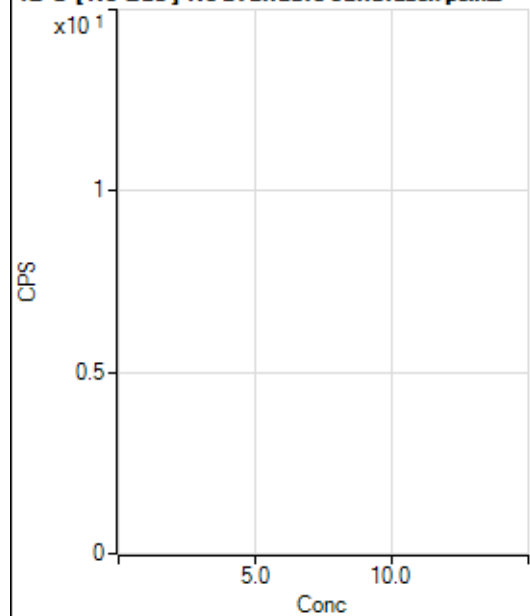
$$R = 0.9987$$

$$DL = 0.03483$$

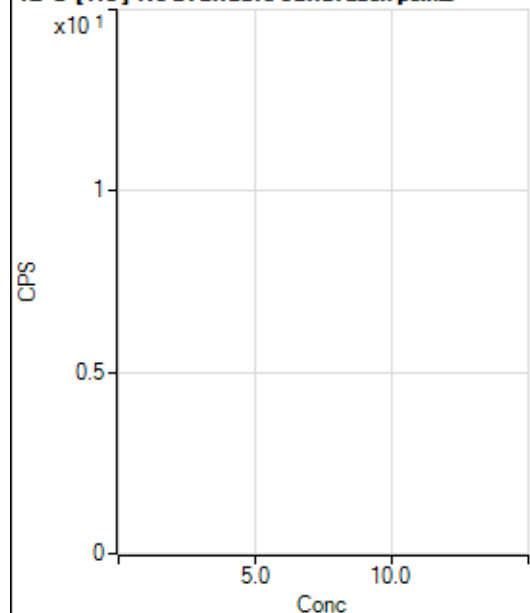
Weight: <None>

Min Conc: 0

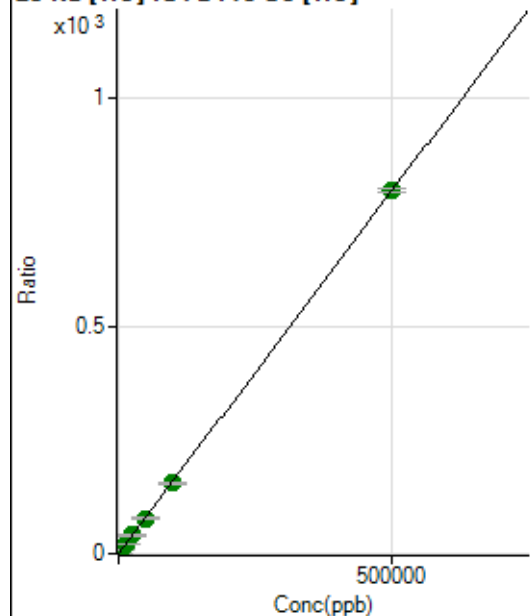
12 C [No Gas] No available calibration points



	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	17011.70	0.0377	P	1.3
2	☐	500.000	493.731	375181.75	0.8246	P	1.0
3	☐	5000.000	5212.632	3809206.58	8.3448	A	1.8
4	☐	12500.000	12883.431	9348956.74	20.5693	A	1.5
5	☐	25000.000	25254.994	18224246.95	40.2851	A	1.1
6	☐	50000.000	48939.651	35603068.91	78.0299	A	1.3
7	☐	100000.00	97745.949	71188950.61	155.8096	A	2.0
8	☐	500000.00	500532.39	340609670.4	797.7061	A	1.1

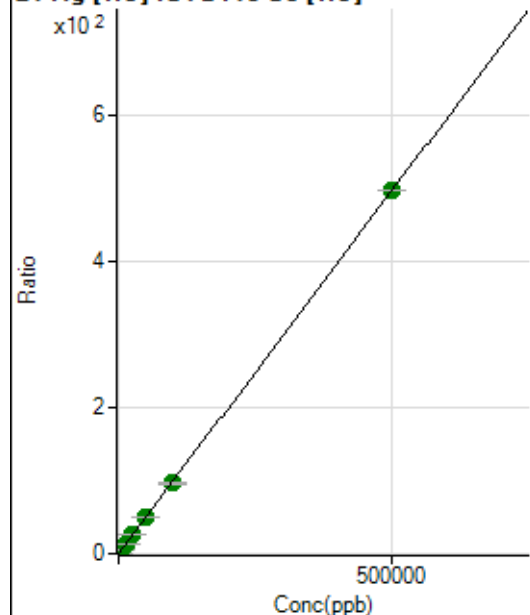
$$y = 0.0016 * x + 0.0377$$

$$R = 1.0000$$

$$DL = 0.9174$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	484.46	0.0011	P	5.3
2	☐	500.000	494.844	223482.14	0.4912	P	0.5
3	☐	5000.000	5288.543	2391247.17	5.2387	A	1.4
4	☐	12500.000	13050.828	5875191.65	12.9264	A	1.3
5	☐	25000.000	25660.308	11497197.88	25.4145	A	1.5
6	☐	50000.000	49825.195	22517841.89	49.3470	A	0.4
7	☐	100000.00	97553.069	44139969.34	96.6157	A	2.8
8	☐	500000.00	500457.20	211636305.7	495.6442	A	0.2

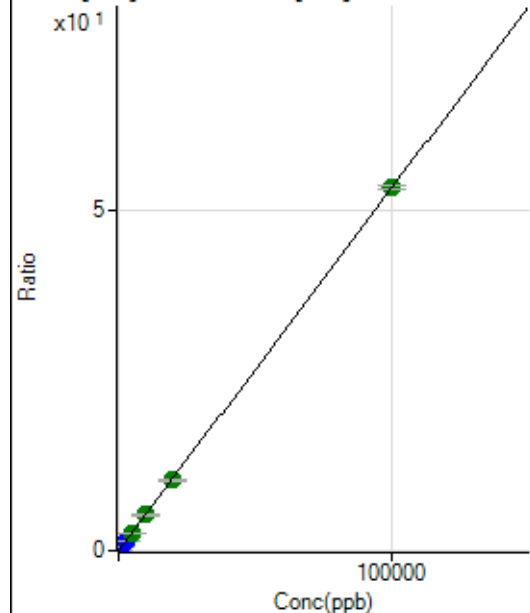
$$y = 9.9038\text{E-}004 * x + 0.0011$$

$$R = 1.0000$$

$$DL = 0.1726$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	204.45	0.0005	P	6.9
2	☐	20.000	20.615	5209.83	0.0115	P	3.3
3	☐	1000.000	1084.126	264217.42	0.5788	P	0.4
4	☐	2500.000	2608.816	632789.51	1.3922	P	0.8
5	☐	5000.000	4969.671	1199676.60	2.6517	A	0.7
6	☐	10000.000	9835.458	2394262.26	5.2476	A	1.9
7	☐	20000.000	19435.086	4737298.12	10.3689	A	2.4
8	☐	100000.00	100127.39	22808637.72	53.4174	A	1.1

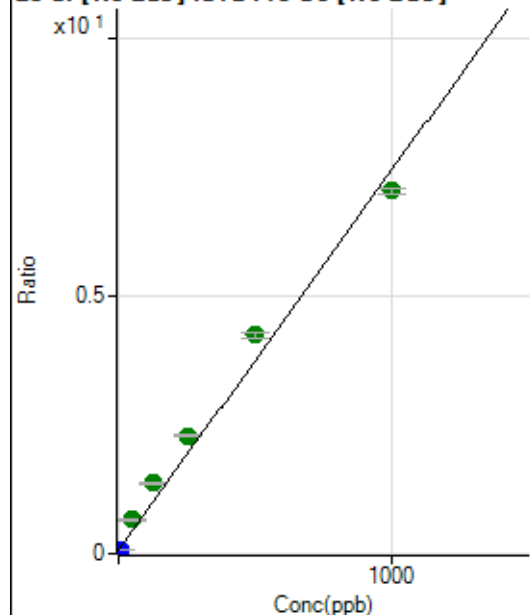
$$y = 5.3349\text{E-}004 * x + 4.5343\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.1766$$

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	387824.61	0.0671	P	0.3
2	☐	10.000	2.624	498896.89	0.0864	P	1.2
3	☐	50.000	79.615	3828061.47	0.6533	A	4.0
4	☐	125.000	176.276	7881802.73	1.3650	A	3.8
5	☐	250.000	302.061	13109697.58	2.2912	A	2.6
6	☐	500.000	565.911	24314394.08	4.2339	A	2.8
7	☐	1000.000	946.213	40654298.56	7.0341	A	1.3
8	☐			1620298.66	0.2950	A	2.9

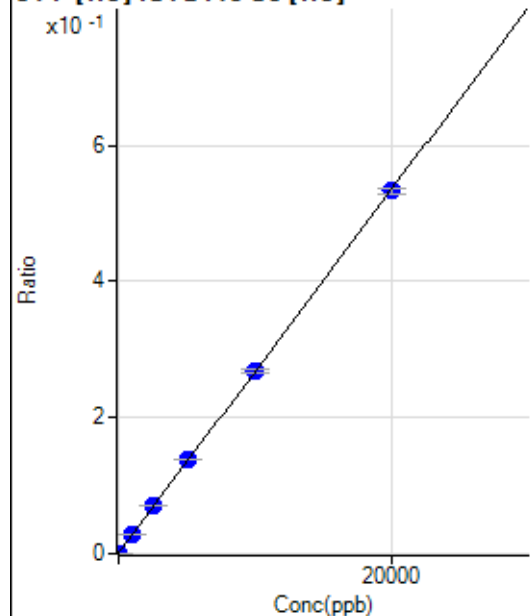
$$y = 0.0074 * x + 0.0671$$

$$R = 0.9938$$

$$DL = 0.0805$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-9.291	230.00	0.0005	P	20.7
2	☐	0.000	9.291	457.79	0.0010	P	4.6
3	☐	1000.000	1023.307	12823.21	0.0281	P	2.7
4	☐	2500.000	2586.627	31745.21	0.0698	P	0.9
5	☐	5000.000	5150.988	62581.62	0.1383	P	1.2
6	☐	10000.000	10056.205	122890.86	0.2694	P	2.0
7	☐	20000.000	19922.157	243471.27	0.5329	P	1.6
8	☐			392.23	0.0009	P	3.1

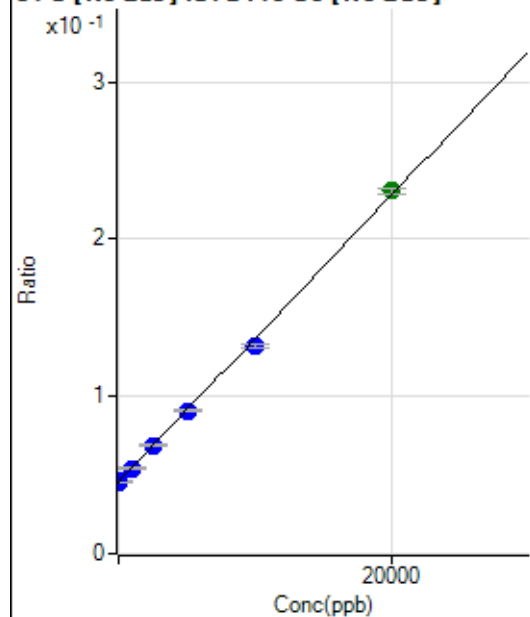
$$y = 2.6709E-005 * x + 7.5791E-004$$

$$R = 1.0000$$

$$DL = 8.509$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	40.726	266506.99	0.0461	P	0.8
2	☐	0.000	-40.726	261873.82	0.0454	P	0.3
3	☐	1000.000	906.055	316451.24	0.0540	P	2.0
4	☐	2500.000	2527.648	397245.75	0.0688	P	1.1
5	☐	5000.000	4965.728	520754.97	0.0910	P	0.7
6	☐	10000.000	9467.703	758450.51	0.1321	P	1.1
7	☐	20000.000	20275.958	1332744.00	0.2306	A	1.5
8	☐			233795.53	0.0426	P	2.7

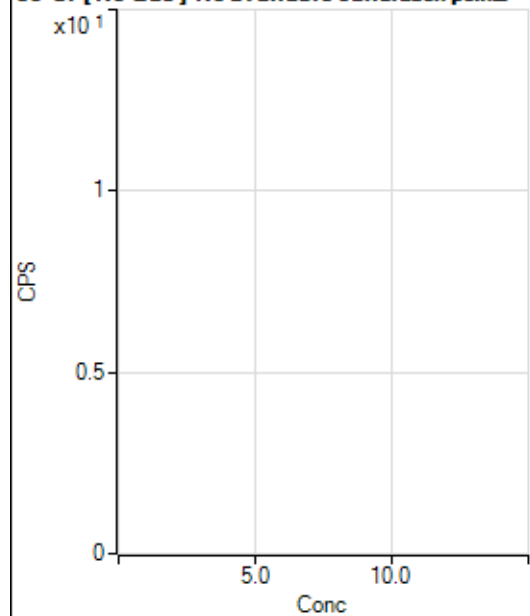
$$y = 9.1173\text{E-}006 * x + 0.0457$$

R = 0.9995

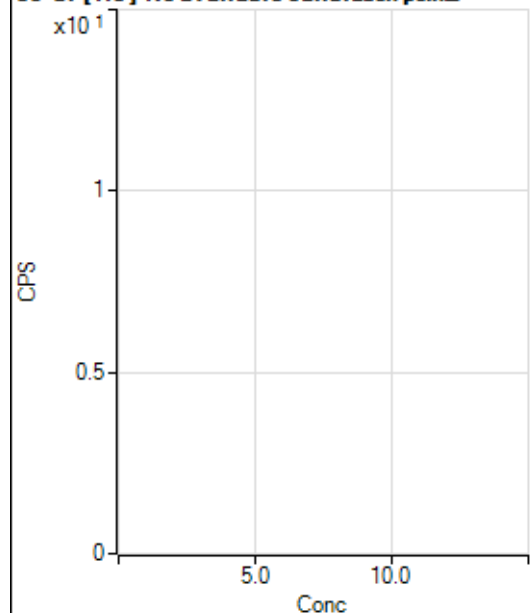
DL = 84.34

Weight: <None>

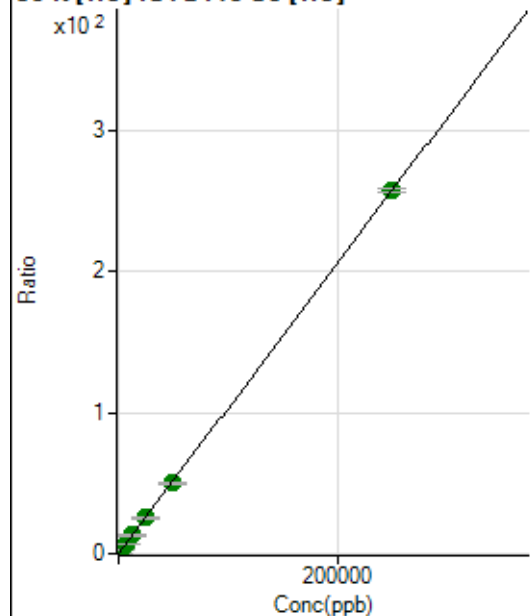
Min Conc: 0

35 Cl [No Gas] No available calibration points

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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	52523.51	0.1165	P	0.2
2	☐	500.000	494.567	283871.96	0.6239	P	1.1
3	☐	2500.000	2579.884	1261489.86	2.7635	A	0.6
4	☐	6250.000	6349.968	3014141.00	6.6316	A	0.7
5	☐	12500.000	12563.001	5884727.83	13.0062	A	1.2
6	☐	25000.000	24636.520	11587228.30	25.3938	A	1.8
7	☐	50000.000	48865.543	22961329.66	50.2530	A	2.3
8	☐	250000.00	250256.80	109686477.2	256.8823	A	1.0

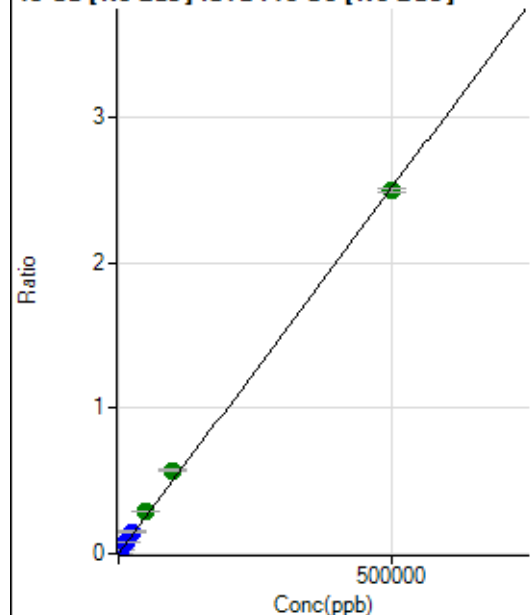
$$y = 0.0010 * x + 0.1165$$

$$R = 1.0000$$

$$DL = 0.5368$$

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	131.11	0.0000	P	8.6
2	☐	500.000	525.054	15374.53	0.0027	P	1.3
3	☐	5000.000	6072.498	179101.95	0.0306	P	2.5
4	☐	12500.000	15366.222	446357.96	0.0773	P	2.8
5	☐	25000.000	30110.466	866491.62	0.1514	P	2.2
6	☐	50000.000	57814.343	1669625.08	0.2908	A	3.7
7	☐	100000.00	113278.75	3292390.33	0.5697	A	2.2
8	☐	500000.00	496224.88	13706355.90	2.4954	A	0.9

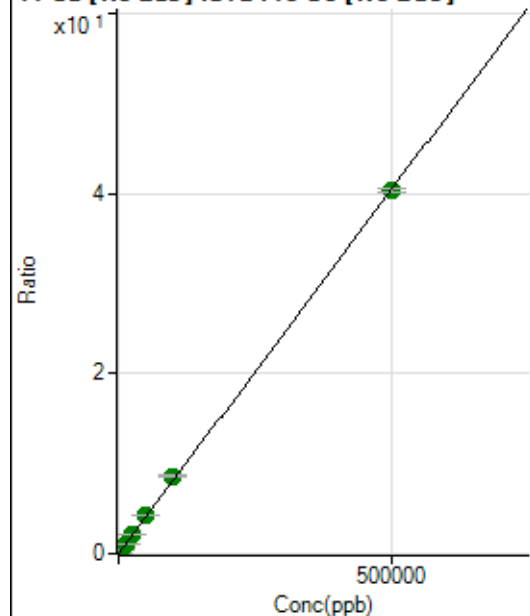
$$y = 5.0287\text{E-}006 * x + 2.2676\text{E-}005$$

$$R = 0.9996$$

$$DL = 1.157$$

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	7362.06	0.0013	P	1.3
2	☐	500.000	519.784	250075.73	0.0433	P	1.3
3	☐	5000.000	5519.894	2624050.53	0.4477	A	2.9
4	☐	12500.000	13962.057	6529618.58	1.1306	A	1.6
5	☐	25000.000	27387.068	12682561.89	2.2165	A	1.4
6	☐	50000.000	53317.773	24775270.19	4.3138	A	2.0
7	☐	100000.00	106438.29	49765038.15	8.6104	A	1.4
8	☐	500000.00	498219.44	221349143.3	40.2993	A	1.2

$$y = 8.0884\text{E-}005 * x + 0.0013$$

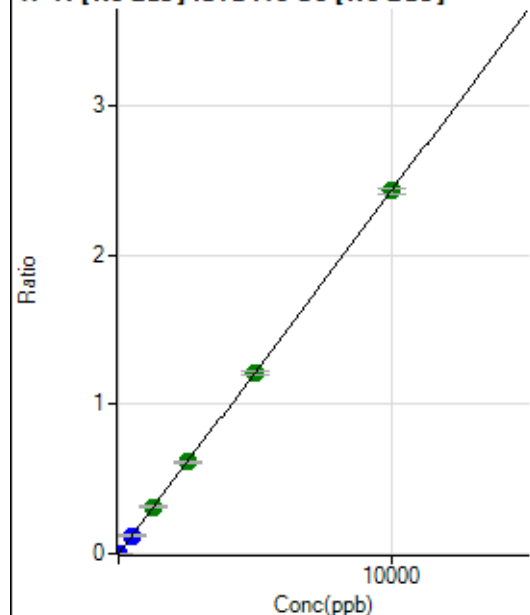
$$R = 0.9999$$

$$DL = 0.6009$$

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	102.23	0.0000	P	27.5
2	☐	5.000	4.725	6737.12	0.0012	P	3.2
3	☐	500.000	502.627	716478.28	0.1223	P	3.7
4	☐	1250.000	1285.573	1805886.31	0.3127	A	2.1
5	☐	2500.000	2526.116	3515704.12	0.6144	A	2.0
6	☐	5000.000	4980.903	6957729.97	1.2115	A	2.2
7	☐	10000.000	9998.442	14054863.54	2.4319	A	1.9
8	☐			3009.22	0.0005	P	7.8

$$y = 2.4323\text{E-}004 * x + 1.7674\text{E-}005$$

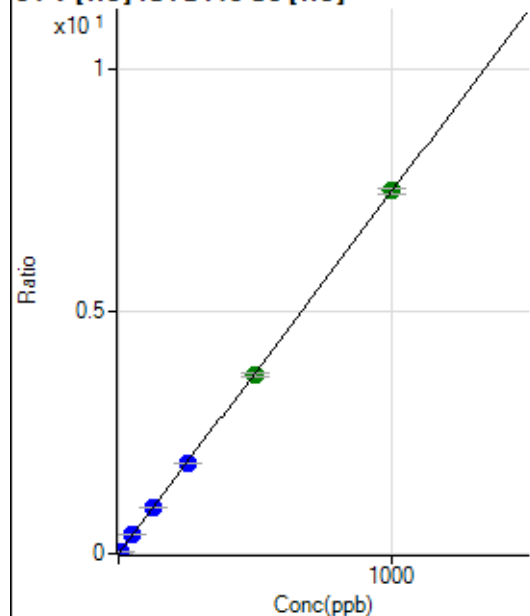
$$R = 1.0000$$

$$DL = 0.05998$$

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	4.45	0.0000	P	86.6
2	☐	5.000	4.834	16420.14	0.0361	P	0.6
3	☐	50.000	51.065	173964.62	0.3811	P	1.4
4	☐	125.000	127.810	433559.59	0.9539	P	1.4
5	☐	250.000	250.716	846530.91	1.8712	P	0.7
6	☐	500.000	494.722	1684625.50	3.6923	A	1.8
7	☐	1000.000	1002.056	3417324.98	7.4787	A	1.2
8	☐			920.03	0.0022	P	3.4

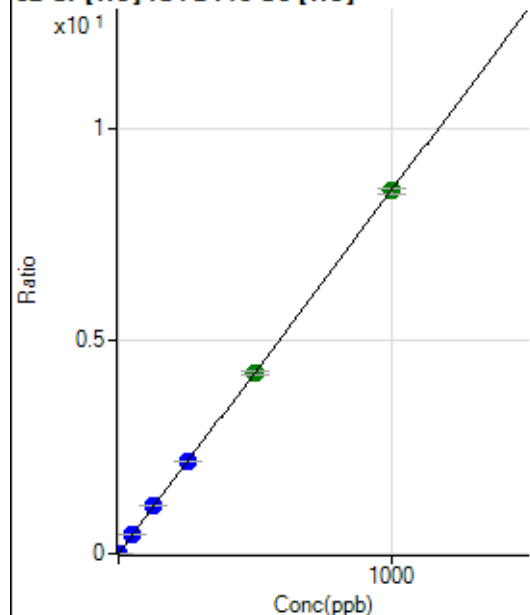
$$y = 0.0075 * x + 9.8697\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.003436$$

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	1152.27	0.0026	P	3.1
2	☐	2.000	1.967	8798.21	0.0193	P	2.0
3	☐	50.000	53.581	209809.68	0.4596	P	1.2
4	☐	125.000	132.281	514028.56	1.1310	P	1.0
5	☐	250.000	255.022	985280.23	2.1780	P	1.2
6	☐	500.000	497.574	1937740.99	4.2470	A	1.9
7	☐	1000.000	998.868	3894311.12	8.5233	A	1.9
8	☐			28023.85	0.0656	P	0.5

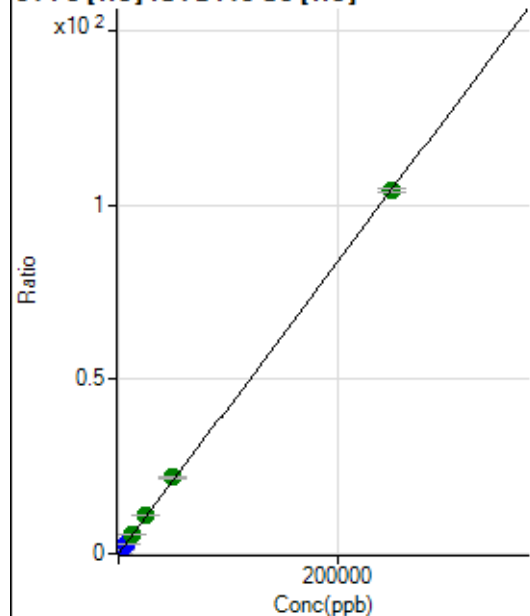
$$y = 0.0085 * x + 0.0026$$

$$R = 1.0000$$

$$DL = 0.02783$$

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	1773.46	0.0039	P	2.8
2	☐	50.000	55.240	12285.10	0.0270	P	1.9
3	☐	2500.000	2885.253	551745.04	1.2087	P	0.6
4	☐	6250.000	7146.011	1358031.49	2.9879	P	0.6
5	☐	12500.000	13525.556	2556777.88	5.6518	A	1.1
6	☐	25000.000	26410.928	5033581.07	11.0323	A	3.4
7	☐	50000.000	52246.514	9969611.10	21.8204	A	2.0
8	☐	250000.00	249332.07	44457476.56	104.1172	A	1.0

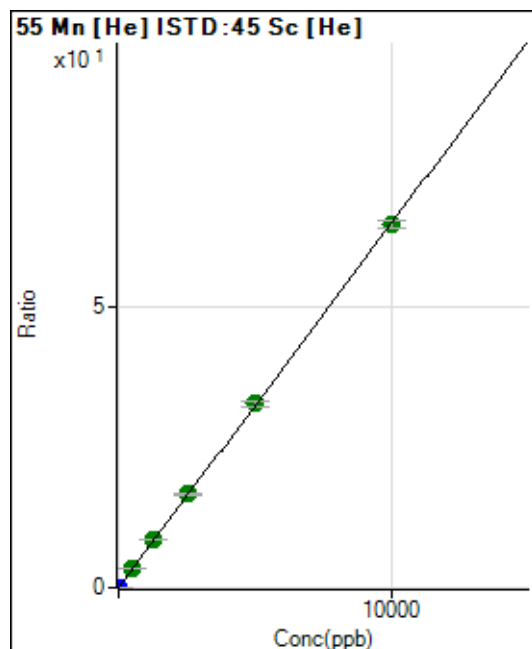
$$y = 4.1757E-004 * x + 0.0039$$

$$R = 1.0000$$

$$DL = 0.7914$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	183.29	0.0004	P	9.7
2	☐	1.000	1.119	3480.87	0.0077	P	3.4
3	☐	500.000	523.088	1545492.60	3.3859	A	1.6
4	☐	1250.000	1308.750	3850118.70	8.4707	A	1.0
5	☐	2500.000	2571.905	7530064.30	16.6460	A	1.6
6	☐	5000.000	5040.824	14885109.52	32.6250	A	2.5
7	☐	10000.000	9953.113	29431633.87	64.4178	A	2.2
8	☐			20538.54	0.0481	P	1.0

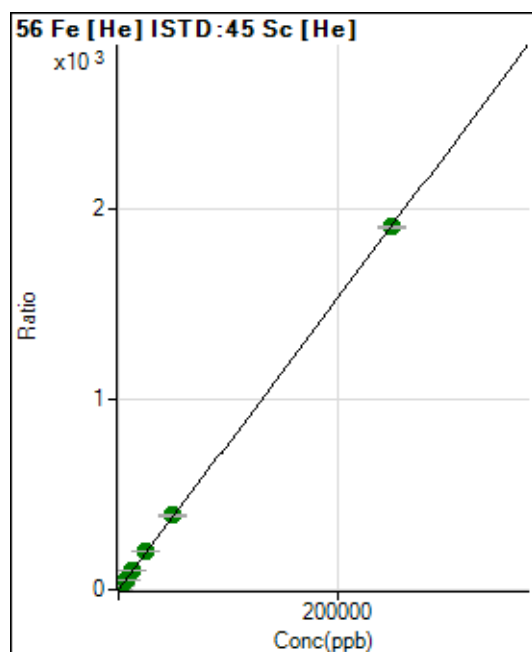
$$y = 0.0065 * x + 4.0634E-004$$

$$R = 1.0000$$

$$DL = 0.01826$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	10698.33	0.0237	P	2.7
2	☐	50.000	52.293	192292.28	0.4226	P	0.4
3	☐	2500.000	2795.416	9743463.67	21.3467	A	2.2
4	☐	6250.000	6837.086	23714506.59	52.1760	A	0.9
5	☐	12500.000	13223.129	45639007.65	100.8878	A	1.5
6	☐	25000.000	26240.039	91335630.86	200.1788	A	1.4
7	☐	50000.000	51478.811	179411032.8	392.6964	A	2.6
8	☐	250000.00	249526.44	812723845.6	1,903.373	A	0.3

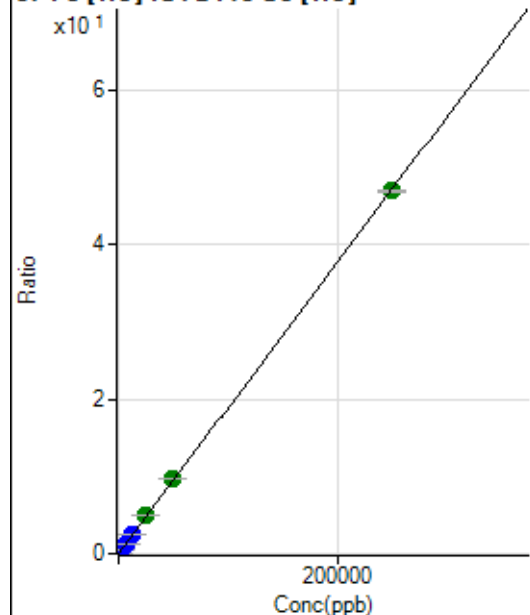
$$y = 0.0076 * x + 0.0237$$

$$R = 1.0000$$

$$DL = 0.253$$

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	304.45	0.0007	P	8.2
2	☐	50.000	54.626	4989.77	0.0110	P	4.3
3	☐	2500.000	2844.392	244951.63	0.5366	P	0.2
4	☐	6250.000	7010.515	600673.65	1.3216	P	0.9
5	☐	12500.000	13627.551	1161885.67	2.5684	P	1.2
6	☐	25000.000	26272.481	2258846.41	4.9509	A	2.4
7	☐	50000.000	51756.529	4456586.81	9.7526	A	1.0
8	☐	250000.00	249442.61	20068888.45	47.0006	A	0.2

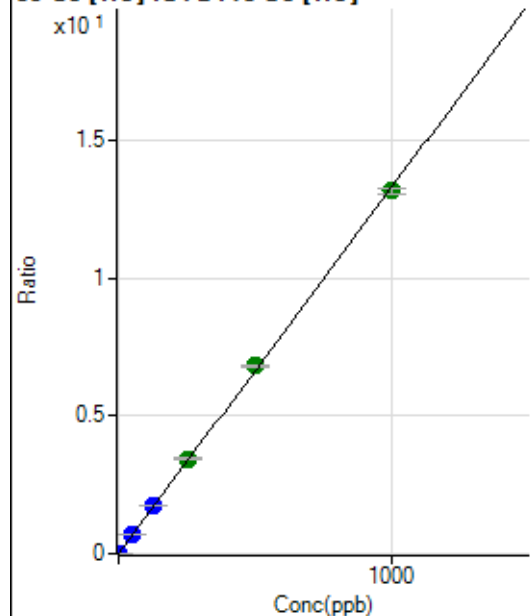
$$y = 1.8842\text{E-}004 * x + 6.7503\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.8864$$

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	43.33	0.0001	P	19.9
2	☐	1.000	1.023	6235.79	0.0137	P	2.0
3	☐	50.000	52.534	319008.35	0.6988	P	0.6
4	☐	125.000	129.980	785823.65	1.7289	P	0.4
5	☐	250.000	259.205	1559616.22	3.4477	A	2.1
6	☐	500.000	512.268	3109010.06	6.8137	A	1.6
7	☐	1000.000	990.816	6021519.08	13.1788	A	1.8
8	☐			5578.87	0.0131	P	3.9

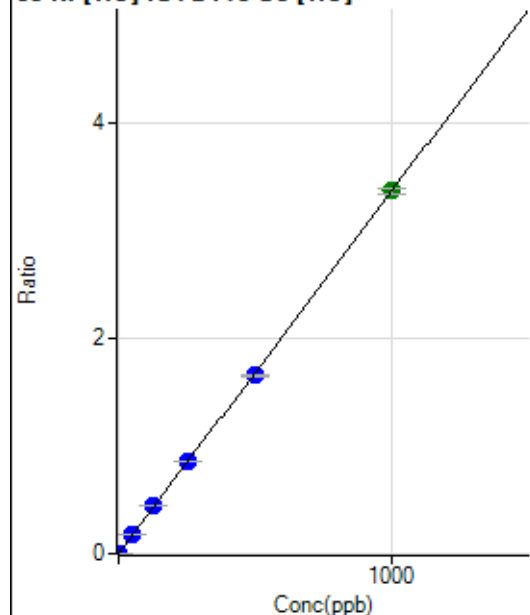
$$y = 0.0133 * x + 9.6030\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.004316$$

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	56.67	0.0001	P	11.6
2	☐	1.000	0.995	1580.10	0.0035	P	5.4
3	☐	50.000	54.209	83251.73	0.1824	P	1.1
4	☐	125.000	133.702	204371.83	0.4497	P	0.7
5	☐	250.000	255.440	388568.74	0.8590	P	1.4
6	☐	500.000	491.757	754478.92	1.6535	P	1.1
7	☐	1000.000	1001.463	1538529.61	3.3672	A	1.8
8	☐			3233.71	0.0076	P	3.7

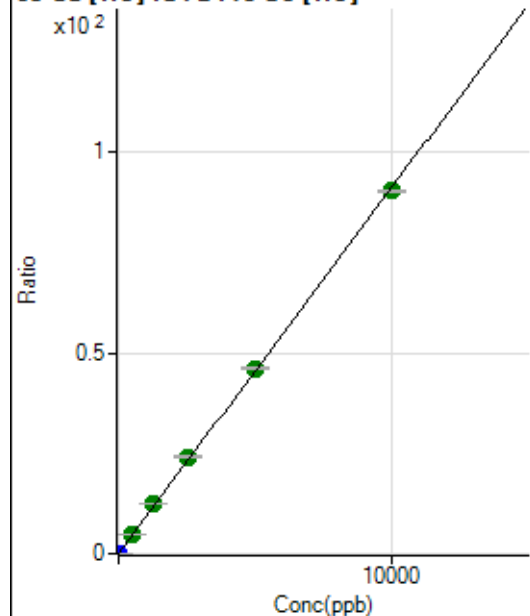
$$y = 0.0034 * x + 1.2565E-004$$

$$R = 0.9999$$

$$DL = 0.01306$$

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	860.03	0.0019	P	5.2
2	☐	2.000	2.045	9340.77	0.0205	P	0.5
3	☐	500.000	545.893	2270198.65	4.9736	A	1.9
4	☐	1250.000	1367.534	5661655.68	12.4566	A	1.2
5	☐	2500.000	2640.810	10881293.73	24.0529	A	1.0
6	☐	5000.000	5061.897	21035542.19	46.1027	A	1.2
7	☐	10000.000	9916.863	41271241.33	90.3189	A	0.8
8	☐			8632.56	0.0202	P	2.2

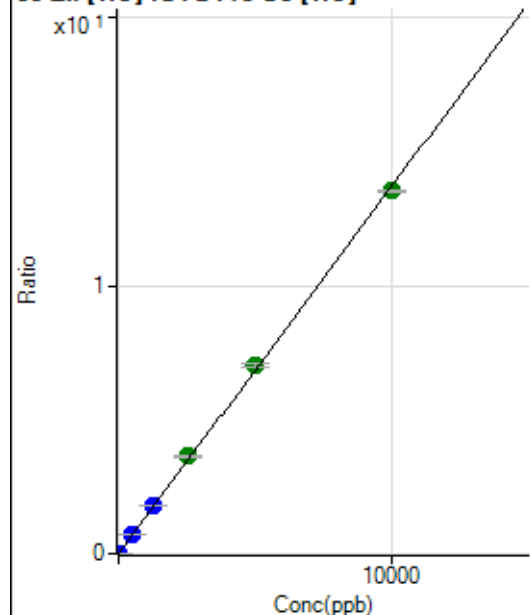
$$y = 0.0091 * x + 0.0019$$

$$R = 0.9998$$

$$DL = 0.03284$$

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	272.23	0.0006	P	9.9
2	☐	2.000	2.309	1712.34	0.0038	P	3.7
3	☐	500.000	535.013	334586.88	0.7330	P	0.7
4	☐	1250.000	1328.942	827087.16	1.8197	P	0.5
5	☐	2500.000	2646.908	1639223.50	3.6238	A	2.2
6	☐	5000.000	5132.983	3206045.64	7.0269	A	2.4
7	☐	10000.000	9885.163	6183392.75	13.5319	A	0.8
8	☐			4536.28	0.0106	P	3.6

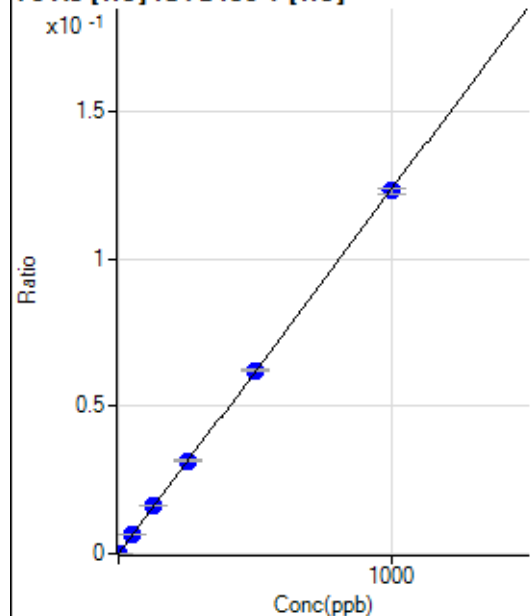
$$y = 0.0014 * x + 6.0357E-004$$

$$R = 0.9997$$

$$DL = 0.1316$$

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	0.00	0.0000	P	
2	☐	1.000	1.069	431.12	0.0001	P	8.1
3	☐	50.000	52.659	21195.24	0.0065	P	2.3
4	☐	125.000	131.819	52533.69	0.0163	P	1.1
5	☐	250.000	255.394	103410.31	0.0316	P	1.1
6	☐	500.000	503.553	205203.34	0.0623	P	1.4
7	☐	1000.000	995.890	405651.66	0.1232	P	1.4
8	☐			100.00	0.0000	P	17.8

$$y = 1.2374E-004 * x + 0.0000E+000$$

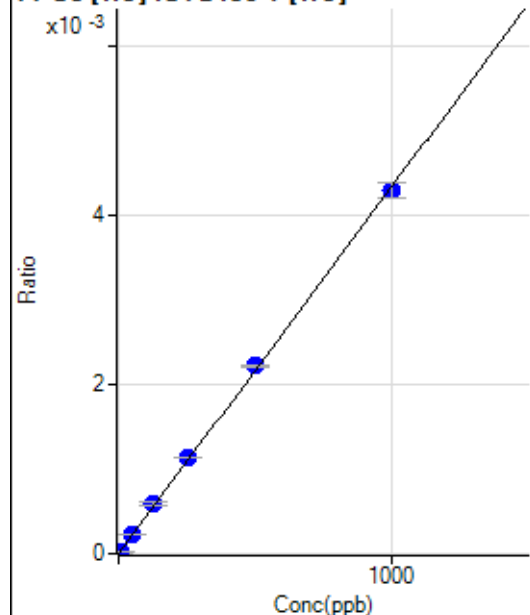
$$R = 1.0000$$

$$DL = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	5.276	75.56	0.0000	P	10.7
3	☐	50.000	53.578	755.58	0.0002	P	1.5
4	☐	125.000	135.923	1896.81	0.0006	P	5.6
5	☐	250.000	261.466	3704.94	0.0011	P	0.8
6	☐	500.000	511.943	7299.64	0.0022	P	1.4
7	☐	1000.000	989.616	14100.14	0.0043	P	4.1
8	☐			4.44	0.0000	P	44.1

$$y = 4.3289E-006 * x + 3.3959E-007$$

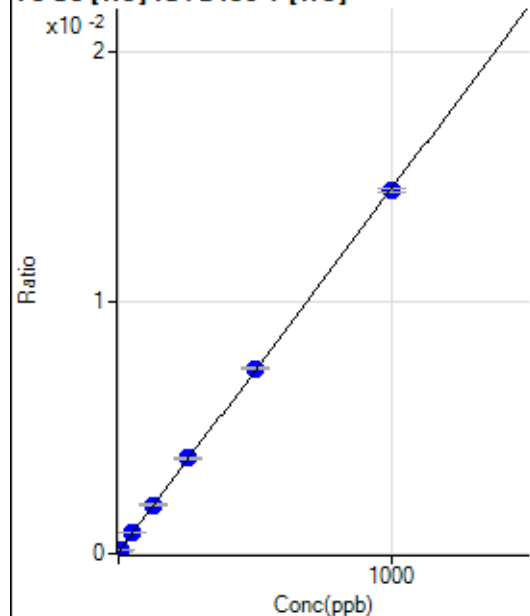
$$R = 0.9998$$

$$DL = 0.4076$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	204.45	0.0001	P	4.1
2	☐	5.000	5.459	465.57	0.0001	P	21.9
3	☐	50.000	52.661	2686.94	0.0008	P	3.8
4	☐	125.000	130.061	6270.27	0.0019	P	0.7
5	☐	250.000	258.964	12476.45	0.0038	P	1.7
6	☐	500.000	505.907	24331.18	0.0074	P	1.3
7	☐	1000.000	994.037	47586.20	0.0145	P	0.9
8	☐			216.67	0.0001	P	4.6

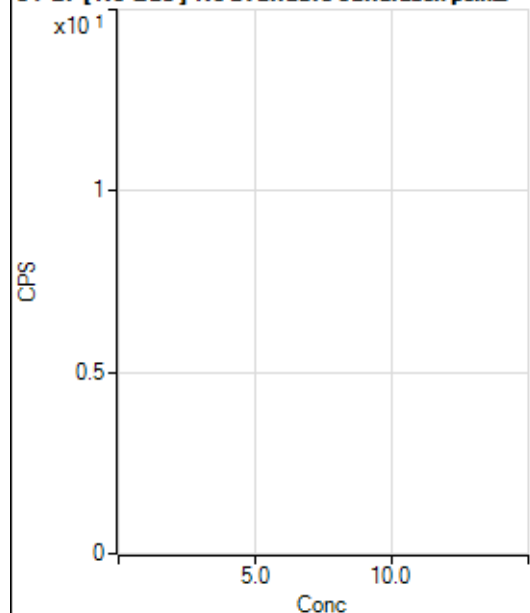
$$y = 1.4478E-005 * x + 6.3622E-005$$

$$R = 0.9999$$

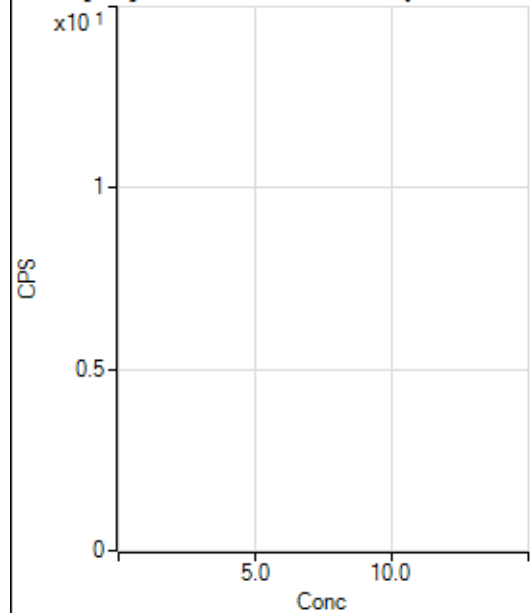
$$DL = 0.54$$

Weight: <None>

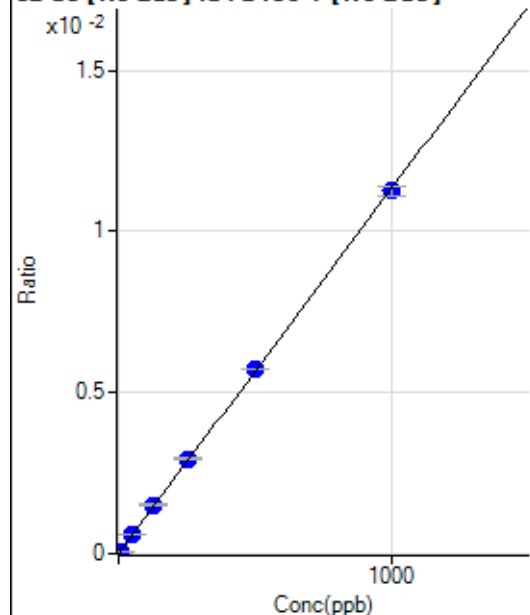
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			34824.53		P	1.6
2	☐			35586.46		P	1.2
3	☐			35472.76		P	0.7
4	☐			36413.90		P	0.5
5	☐			37074.43		P	1.1
6	☐			37707.11		P	1.5
7	☐			38314.23		P	1.3
8	☐			37662.59		P	0.5

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.67		P	8.7
2	☐			64.44		P	26.5
3	☐			82.22		P	6.2
4	☐			67.78		P	15.0
5	☐			83.33		P	12.0
6	☐			82.22		P	16.4
7	☐			80.00		P	25.3
8	☐			103.33		P	14.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	31.68	0.0000	P	102.
2	☐	5.000	5.009	821.51	0.0001	P	1.8
3	☐	50.000	52.586	8470.47	0.0006	P	2.6
4	☐	125.000	133.614	21364.90	0.0015	P	2.3
5	☐	250.000	260.348	41947.99	0.0030	P	1.8
6	☐	500.000	504.860	82340.96	0.0057	P	0.7
7	☐	1000.000	993.777	163712.70	0.0113	P	2.6
8	☐			285.15	0.0000	P	9.9

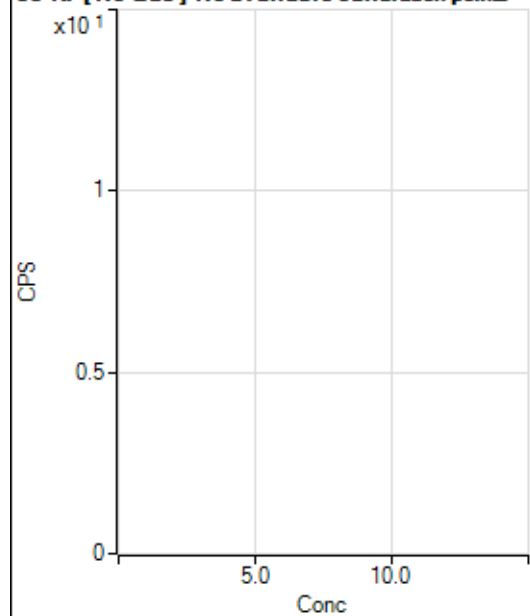
$$y = 1.1326E-005 * x + 2.2922E-006$$

$$R = 0.9999$$

$$DL = 0.6192$$

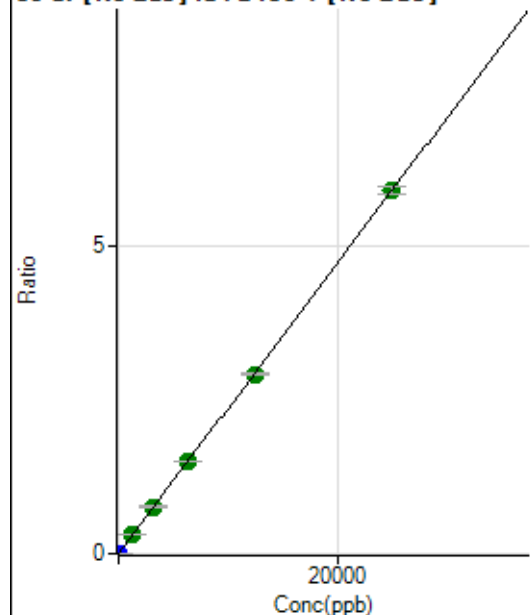
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			177.78		P	7.1
2	☐			193.34		P	12.1
3	☐			152.23		P	3.3
4	☐			176.67		P	8.2
5	☐			198.89		P	7.6
6	☐			207.78		P	6.7
7	☐			193.34		P	19.0
8	☐			258.89		P	12.2

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	320.01	0.0000	P	7.8
2	☐	1.000	0.952	3450.44	0.0002	P	1.9
3	☐	1250.000	1278.134	4278692.96	0.3020	A	1.8
4	☐	3125.000	3239.086	10788013.66	0.7652	A	1.5
5	☐	6250.000	6335.371	21276889.68	1.4967	A	0.8
6	☐	12500.000	12396.404	42157273.81	2.9286	A	1.0
7	☐	25000.000	25014.788	85947982.05	5.9097	A	2.1
8	☐			28380.78	0.0022	P	4.6

$$y = 2.3625E-004 * x + 2.3079E-005$$

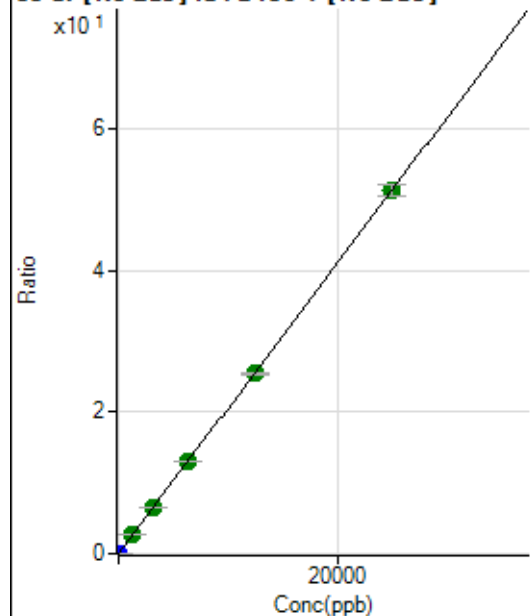
$$R = 1.0000$$

$$DL = 0.02284$$

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	307.79	0.0000	P	10.2
2	☐	1.000	0.952	27487.95	0.0020	P	1.7
3	☐	1250.000	1279.611	37178527.22	2.6241	A	3.0
4	☐	3125.000	3207.593	92734375.28	6.5778	A	1.2
5	☐	6250.000	6351.684	185159757.2	13.0253	A	1.6
6	☐	12500.000	12421.102	366663750.0	25.4718	A	1.4
7	☐	25000.000	25002.223	745570237.7	51.2718	A	3.2
8	☐			243024.99	0.0186	P	4.6

$$y = 0.0021 * x + 2.2183E-005$$

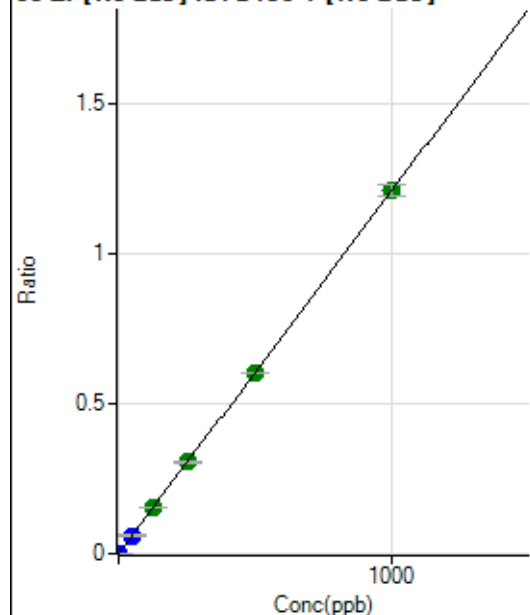
$$R = 1.0000$$

$$DL = 0.003296$$

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	588.91	0.0000	P	3.8
2	☐	1.000	0.916	16023.27	0.0012	P	2.7
3	☐	50.000	49.996	857872.45	0.0605	P	2.0
4	☐	125.000	128.724	2196762.17	0.1558	A	1.0
5	☐	250.000	252.022	4336239.62	0.3050	A	1.0
6	☐	500.000	497.779	8672018.55	0.6024	A	0.6
7	☐	1000.000	1000.140	17600551.68	1.2104	A	3.3
8	☐			5215.42	0.0004	P	5.0

$$y = 0.0012 * x + 4.2463E-005$$

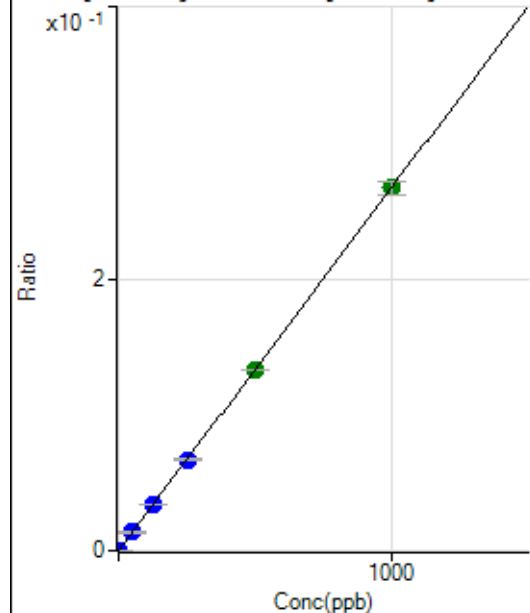
$$R = 1.0000$$

$$DL = 0.003955$$

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	94.44	0.0000	P	21.1
2	☐	1.000	0.928	3539.35	0.0003	P	1.7
3	☐	50.000	50.622	191424.58	0.0135	P	2.3
4	☐	125.000	127.495	479535.15	0.0340	P	2.3
5	☐	250.000	250.882	951463.47	0.0669	P	1.7
6	☐	500.000	499.215	1917027.09	0.1332	A	0.4
7	☐	1000.000	999.829	3878489.39	0.2667	A	3.4
8	☐			1095.61	0.0001	P	0.9

$$y = 2.6676E-004 * x + 6.8215E-006$$

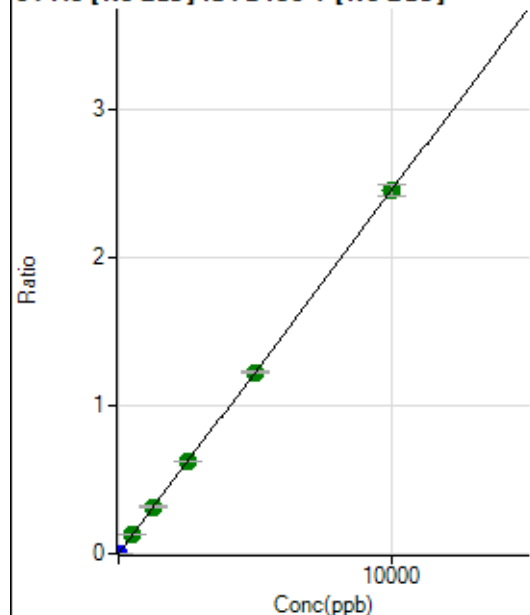
$$R = 1.0000$$

$$DL = 0.01622$$

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	204.45	0.0000	P	22.1
2	☐	5.000	5.498	18989.07	0.0014	P	1.6
3	☐	500.000	511.025	1777805.27	0.1255	A	2.2
4	☐	1250.000	1291.232	4469527.47	0.3170	A	2.0
5	☐	2500.000	2548.170	8893587.23	0.6256	A	0.9
6	☐	5000.000	4985.692	17620054.60	1.2241	A	1.3
7	☐	10000.000	9989.406	35662836.41	2.4525	A	3.3
8	☐			9896.77	0.0008	P	8.8

$$y = 2.4551E-004 * x + 1.4712E-005$$

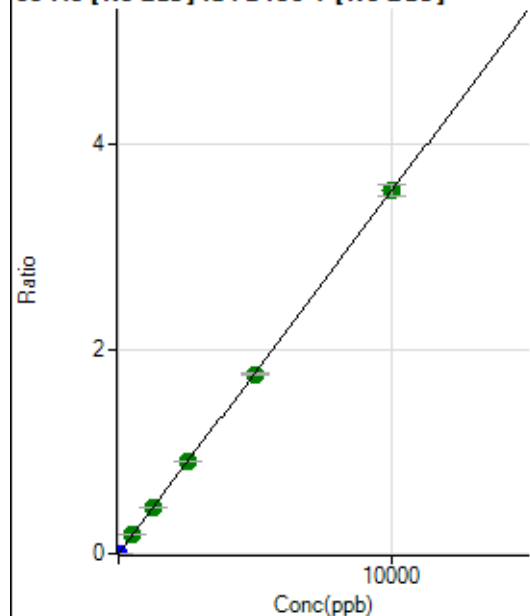
$$R = 1.0000$$

$$DL = 0.0398$$

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	17.78	0.0000	P	11.4
2	☐	5.000	4.650	22979.22	0.0017	P	2.8
3	☐	500.000	513.078	2579387.13	0.1821	A	2.9
4	☐	1250.000	1284.791	6427535.11	0.4559	A	1.3
5	☐	2500.000	2547.338	12849410.22	0.9039	A	1.5
6	☐	5000.000	4956.772	25317676.01	1.7589	A	1.7
7	☐	10000.000	10004.777	51623902.01	3.5501	A	3.3
8	☐			12366.45	0.0009	P	8.9

$$y = 3.5484E-004 * x + 1.2826E-006$$

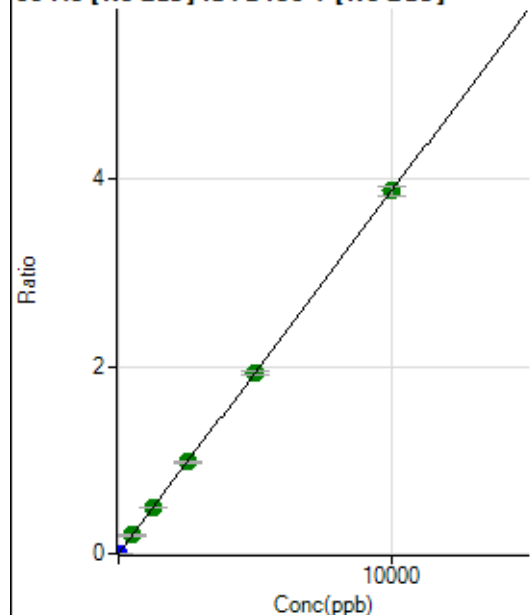
$$R = 1.0000$$

$$DL = 0.001241$$

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	93.33	0.0000	P	15.0
2	☐	5.000	4.705	25456.66	0.0018	P	2.2
3	☐	500.000	507.228	2784202.72	0.1965	A	2.4
4	☐	1250.000	1277.697	6978737.88	0.4950	A	1.0
5	☐	2500.000	2524.937	13905433.54	0.9782	A	1.5
6	☐	5000.000	4970.208	27716662.09	1.9255	A	2.0
7	☐	10000.000	10004.839	56369597.50	3.8760	A	2.4
8	☐			32505.09	0.0025	P	2.8

$$y = 3.8741E-004 * x + 6.7206E-006$$

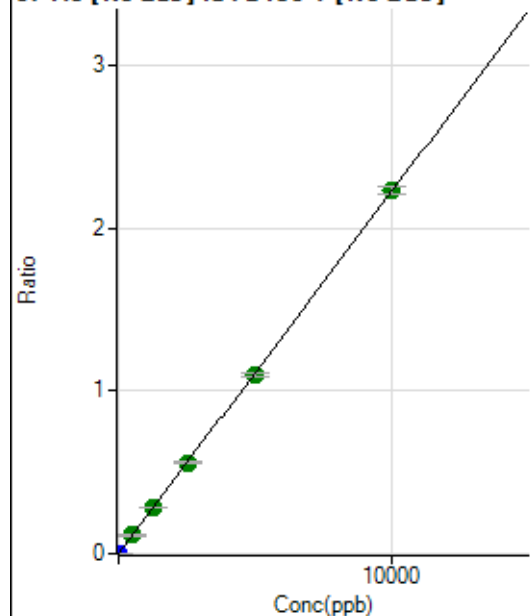
$$R = 1.0000$$

$$DL = 0.007808$$

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	18.89	0.0000	P	62.6
2	☐	5.000	4.613	14291.54	0.0010	P	0.7
3	☐	500.000	506.662	1595989.06	0.1126	A	2.6
4	☐	1250.000	1286.344	4031454.56	0.2860	A	2.1
5	☐	2500.000	2511.005	7935617.73	0.5582	A	2.2
6	☐	5000.000	4942.506	15816982.82	1.0988	A	1.6
7	☐	10000.000	10021.120	32401575.91	2.2279	A	2.1
8	☐			8187.91	0.0006	P	7.1

$$y = 2.2232E-004 * x + 1.3692E-006$$

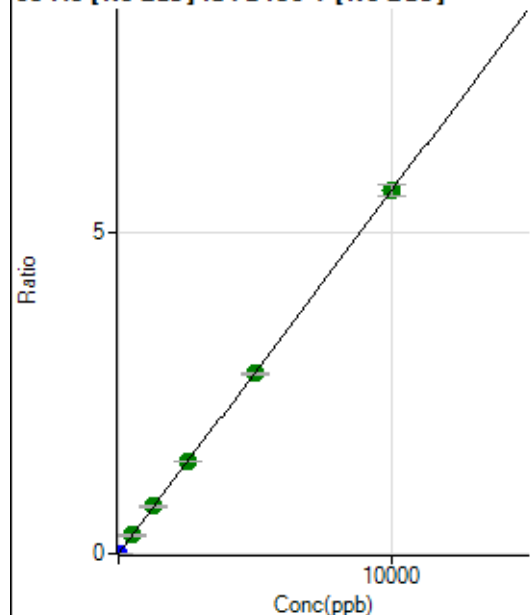
$$R = 1.0000$$

$$DL = 0.01157$$

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	16.67	0.0000	P	53.8
2	☐	5.000	4.705	37046.92	0.0027	P	1.8
3	☐	500.000	505.244	4048724.00	0.2857	A	2.0
4	☐	1250.000	1298.610	10353458.18	0.7344	A	2.1
5	☐	2500.000	2547.338	20480296.92	1.4407	A	0.4
6	☐	5000.000	4967.425	40440168.01	2.8094	A	1.2
7	☐	10000.000	9998.115	82222967.66	5.6545	A	3.3
8	☐			19129.34	0.0015	P	8.5

$$y = 5.6556\text{E-}004 * x + 1.2059\text{E-}006$$

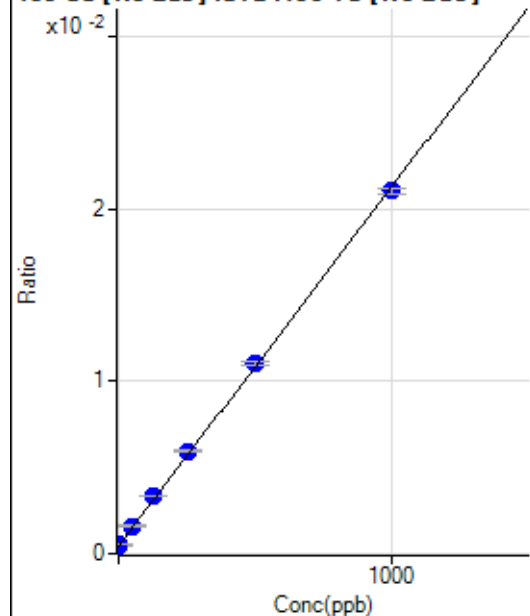
$$R = 1.0000$$

$$DL = 0.003443$$

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	5095.40	0.0004	P	0.5
2	☐	1.000	3.372	5979.07	0.0005	P	0.6
3	☐	50.000	56.221	19249.52	0.0016	P	2.3
4	☐	125.000	139.750	39922.48	0.0034	P	0.3
5	☐	250.000	264.364	72002.93	0.0059	P	2.4
6	☐	500.000	509.458	135450.58	0.0111	P	1.7
7	☐	1000.000	989.523	260677.28	0.0211	P	1.9
8	☐			5398.84	0.0005	P	1.2

$$y = 2.0831\text{E-}005 * x + 4.4177\text{E-}004$$

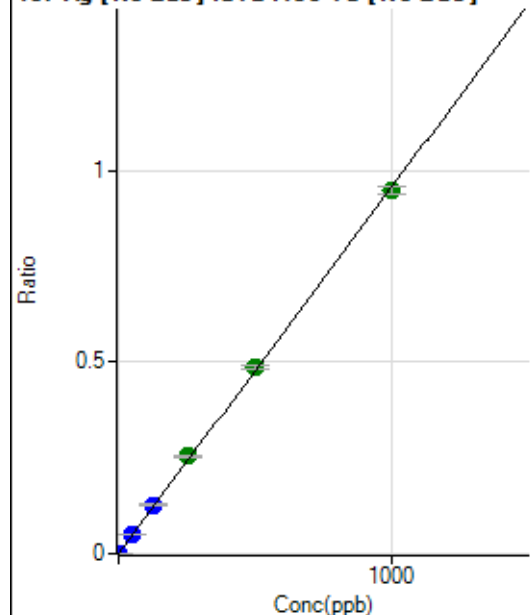
$$R = 0.9998$$

$$DL = 0.3036$$

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	63.33	0.0000	P	18.0
2	☐	1.000	1.017	11420.14	0.0010	P	1.2
3	☐	50.000	53.713	612885.38	0.0514	P	5.0
4	☐	125.000	133.490	1520161.63	0.1277	P	1.5
5	☐	250.000	266.995	3091057.77	0.2554	A	2.0
6	☐	500.000	508.114	5954775.68	0.4860	A	2.3
7	☐	1000.000	990.448	11728292.33	0.9473	A	2.1
8	☐			5194.32	0.0005	P	5.6

$$y = 9.5643\text{E-}004 * x + 5.4895\text{E-}006$$

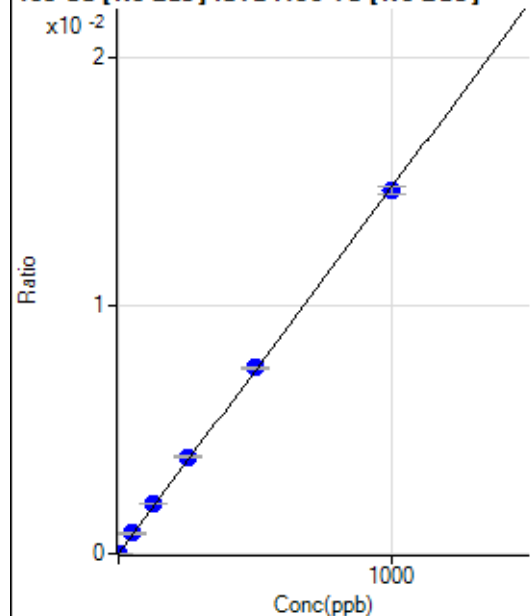
$$R = 0.9998$$

$$DL = 0.003106$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	13.33	0.0000	P	43.6
2	☐	1.000	1.012	187.78	0.0000	P	20.1
3	☐	50.000	55.152	9730.00	0.0008	P	4.7
4	☐	125.000	137.203	24137.97	0.0020	P	1.5
5	☐	250.000	264.296	47260.11	0.0039	P	0.9
6	☐	500.000	507.873	91915.69	0.0075	P	1.3
7	☐	1000.000	990.706	181152.57	0.0146	P	2.0
8	☐			117.78	0.0000	P	11.2

$$y = 1.4768\text{E-}005 * x + 1.1568\text{E-}006$$

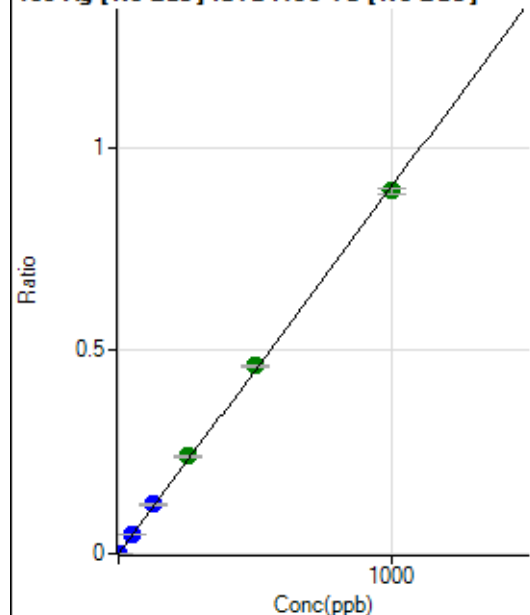
$$R = 0.9998$$

$$DL = 0.1024$$

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	17.78	0.0000	P	54.0
2	☐	1.000	1.012	10707.37	0.0009	P	2.1
3	☐	50.000	53.512	577373.27	0.0484	P	4.6
4	☐	125.000	134.162	1444588.62	0.1213	P	2.4
5	☐	250.000	266.072	2912842.14	0.2406	A	1.2
6	☐	500.000	512.293	5677333.25	0.4633	A	0.9
7	☐	1000.000	988.515	11069445.81	0.8940	A	1.5
8	☐			4806.40	0.0004	P	5.1

$$y = 9.0440\text{E-}004 * x + 1.5400\text{E-}006$$

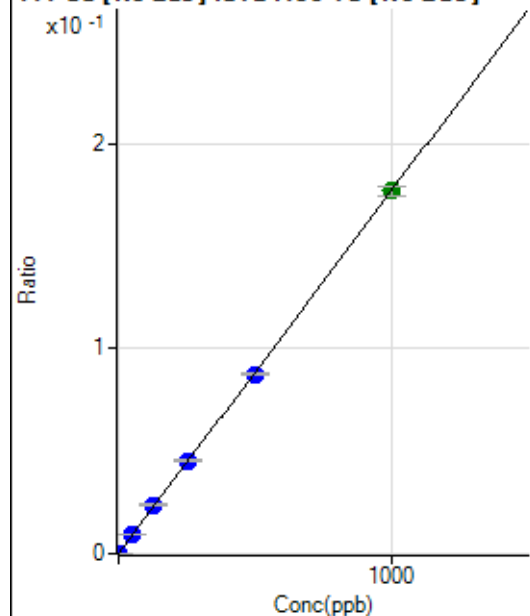
$$R = 0.9997$$

$$DL = 0.002759$$

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	1010.86	0.0001	P	0.5
2	☐	1.000	1.142	3383.47	0.0003	P	0.2
3	☐	50.000	52.853	112676.52	0.0094	P	4.3
4	☐	125.000	133.690	282814.14	0.0238	P	2.8
5	☐	250.000	256.466	550651.88	0.0455	P	1.4
6	☐	500.000	495.048	1074946.21	0.0877	P	1.8
7	☐	1000.000	999.631	2192027.98	0.1771	A	2.4
8	☐			1821.80	0.0002	P	5.3

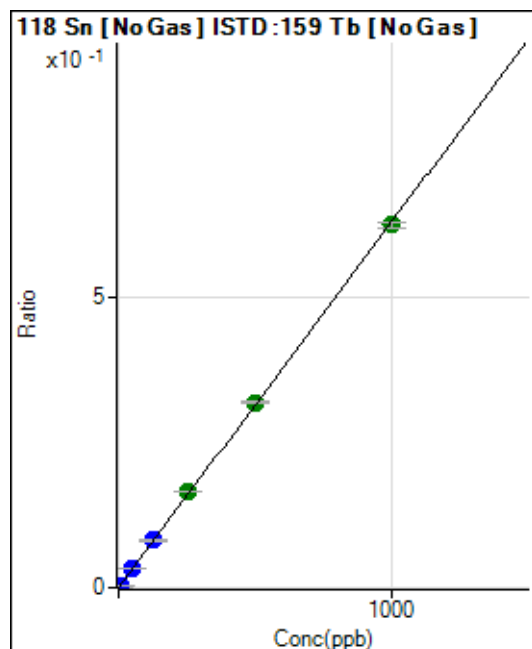
$$y = 1.7703\text{E-}004 * x + 8.7642\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.008137$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1246.74	0.0001	P	4.1
2	☐	5.000	4.822	36673.27	0.0031	P	0.2
3	☐	50.000	50.959	383624.80	0.0322	P	4.3
4	☐	125.000	130.018	974748.08	0.0819	P	2.6
5	☐	250.000	262.769	2001716.53	0.1654	A	0.7
6	☐	500.000	507.488	3911961.47	0.3193	A	1.8
7	☐	1000.000	992.390	7728684.95	0.6242	A	1.6
8	☐			8354.72	0.0008	P	2.4

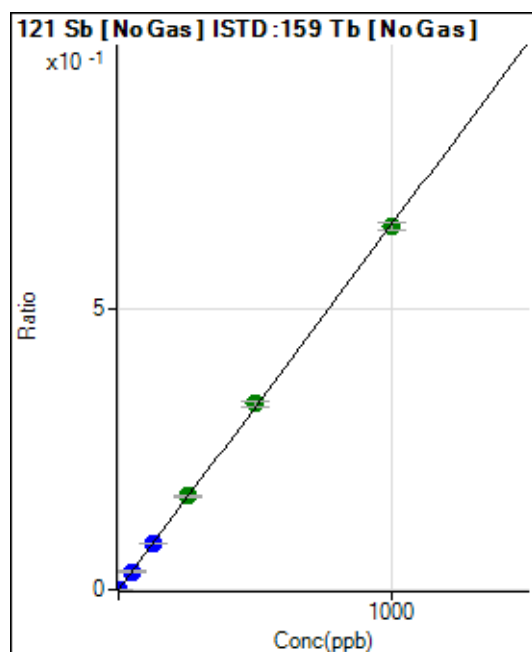
$$y = 6.2889\text{E-}004 * x + 1.0808\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.02127$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56.67	0.0000	P	21.2
2	☐	2.000	1.915	14633.15	0.0013	P	1.8
3	☐	50.000	49.726	386780.33	0.0324	P	4.1
4	☐	125.000	126.554	982196.64	0.0825	P	2.2
5	☐	250.000	256.739	2025722.96	0.1674	A	2.2
6	☐	500.000	508.608	4062319.73	0.3315	A	2.4
7	☐	1000.000	993.831	8020437.87	0.6478	A	2.3
8	☐			4970.91	0.0005	P	4.1

$$y = 6.5184\text{E-}004 * x + 4.9123\text{E-}006$$

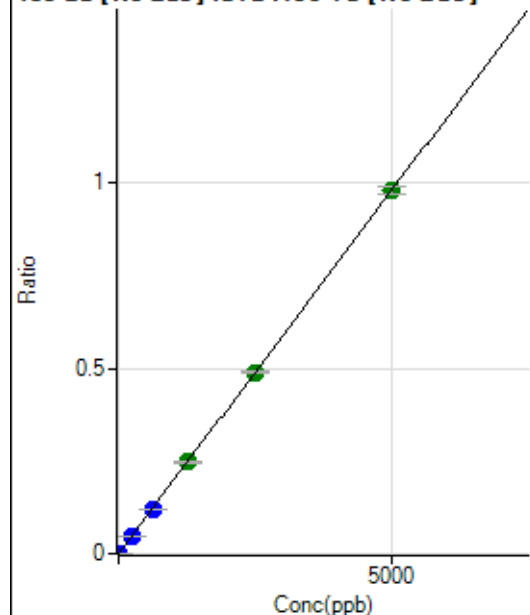
$$R = 0.9999$$

$$DL = 0.004784$$

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	16.67	0.0000	P	34.5
2	☐	10.000	9.114	20885.42	0.0018	P	2.2
3	☐	250.000	242.528	567406.36	0.0476	P	4.8
4	☐	625.000	610.598	1425670.50	0.1197	P	2.2
5	☐	1250.000	1268.060	3010196.59	0.2487	A	1.7
6	☐	2500.000	2500.637	6009067.97	0.4904	A	1.7
7	☐	5000.000	4997.342	12133636.21	0.9800	A	2.2
8	☐			6660.50	0.0006	P	2.2

$$y = 1.9611E-004 * x + 1.4443E-006$$

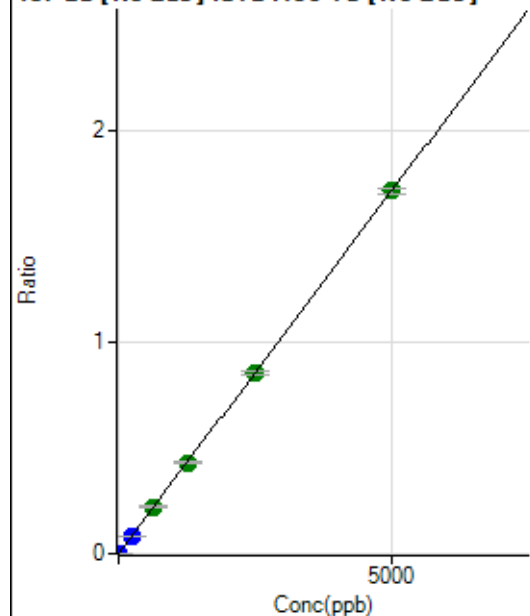
$$R = 1.0000$$

$$DL = 0.007618$$

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	31.11	0.0000	P	12.2
2	☐	10.000	9.153	36594.85	0.0031	P	0.9
3	☐	250.000	239.543	977696.15	0.0820	P	4.3
4	☐	625.000	649.638	2645952.81	0.2222	A	2.4
5	☐	1250.000	1256.087	5201352.87	0.4297	A	2.2
6	☐	2500.000	2486.270	10422193.18	0.8506	A	1.8
7	☐	5000.000	5002.788	21190923.57	1.7115	A	1.6
8	☐			11290.14	0.0010	P	3.8

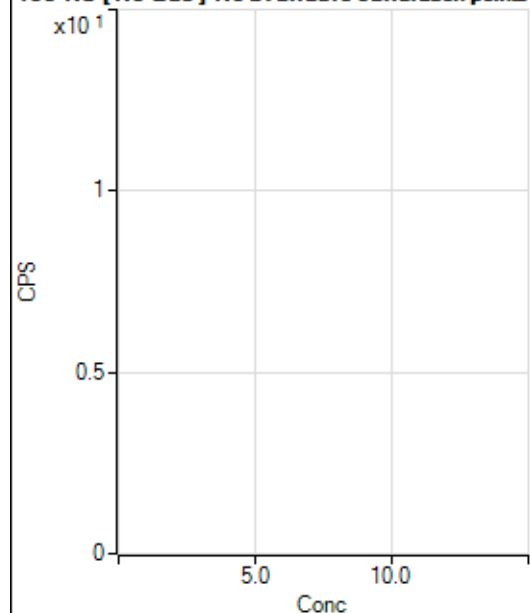
$$y = 3.4210E-004 * x + 2.6968E-006$$

$$R = 1.0000$$

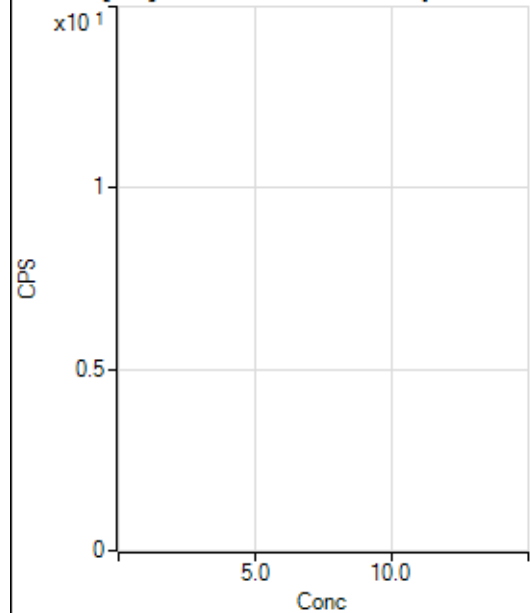
$$DL = 0.002876$$

Weight: <None>

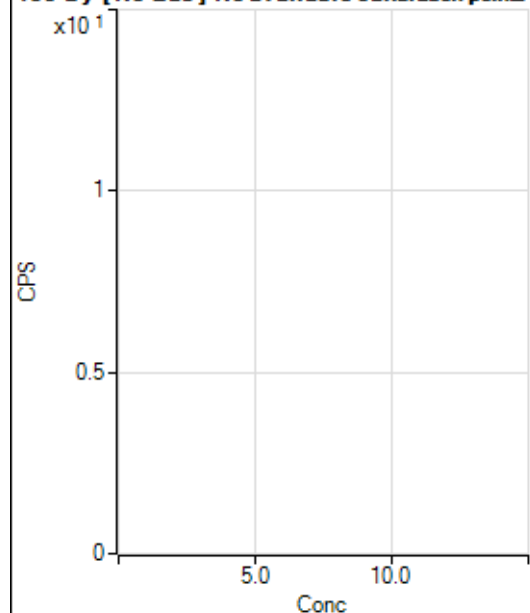
Min Conc: 0

150 Nd [No Gas] No available calibration points

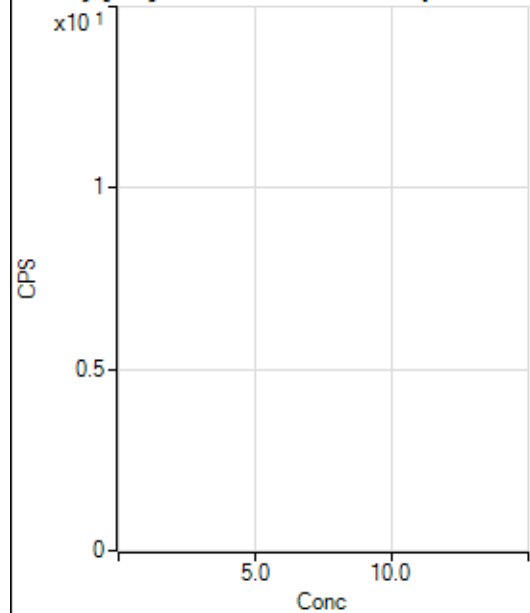
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	88.2
2	☐			18.89		P	20.4
3	☐			105.56		P	6.6
4	☐			223.34		P	9.3
5	☐			440.01		P	13.1
6	☐			851.15		P	5.2
7	☐			1663.45		P	2.6
8	☐			68.89		P	23.9

150 Nd [He] No available calibration points

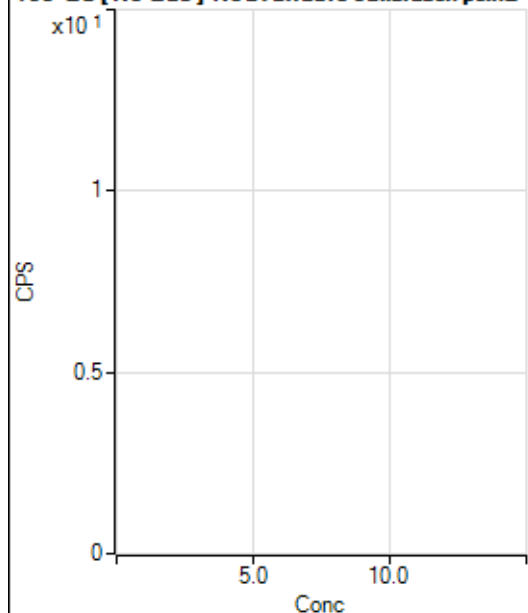
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	89.2
2	☐			1.11		P	173.
3	☐			31.11		P	43.3
4	☐			45.56		P	36.1
5	☐			75.56		P	41.0
6	☐			146.67		P	16.4
7	☐			307.79		P	2.3
8	☐			53.33		P	27.2

156 Dy [No Gas] No available calibration points

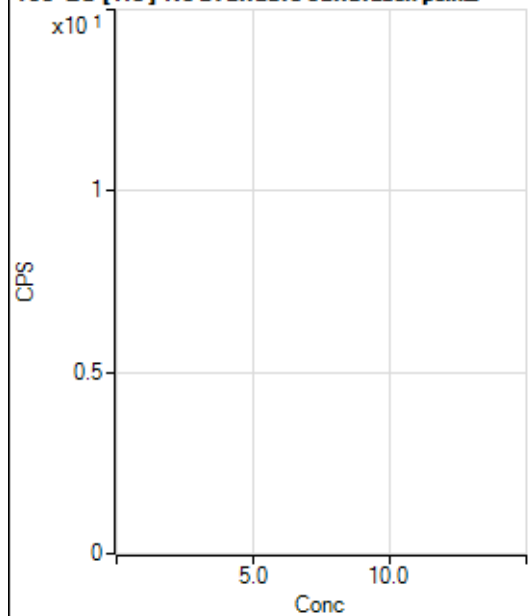
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	57.7
2	☐			11.11		P	17.3
3	☐			50.00		P	24.0
4	☐			77.78		P	13.1
5	☐			197.78		P	14.0
6	☐			346.67		P	16.7
7	☐			765.58		P	7.3
8	☐			2015.72		P	4.6

156 Dy [He] No available calibration points

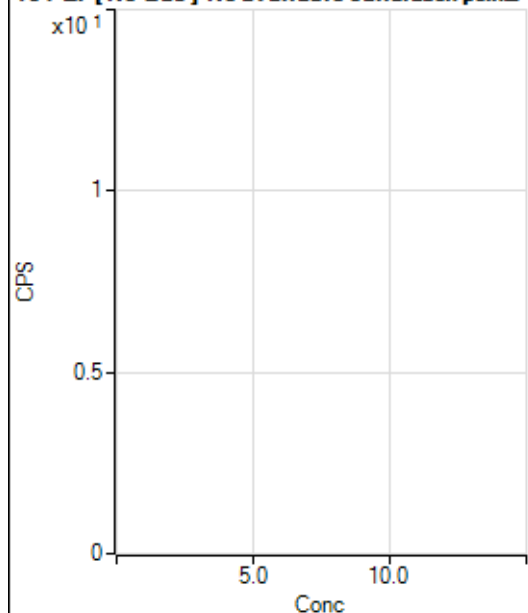
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			11.11		P	62.5
3	☐			57.78		P	20.3
4	☐			110.00		P	16.9
5	☐			171.11		P	7.4
6	☐			336.67		P	10.3
7	☐			697.80		P	4.5
8	☐			1370.08		P	1.1

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

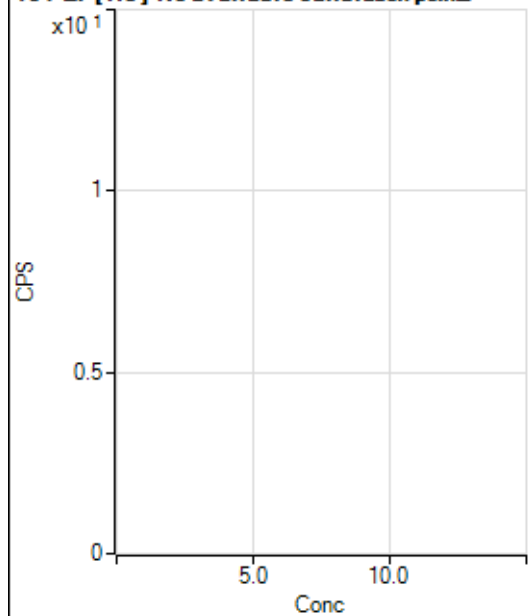
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			45.56		P	18.4
2	☐			53.33		P	25.0
3	☐			68.89		P	15.6
4	☐			122.22		P	16.4
5	☐			176.67		P	32.7
6	☐			331.12		P	3.1
7	☐			568.90		P	3.4
8	☐			2157.97		P	5.3

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			310.01		P	16.7
2	☐			268.89		P	10.5
3	☐			285.56		P	10.8
4	☐			308.90		P	0.6
5	☐			366.68		P	7.1
6	☐			442.24		P	9.8
7	☐			610.02		P	4.1
8	☐			1702.34		P	4.0

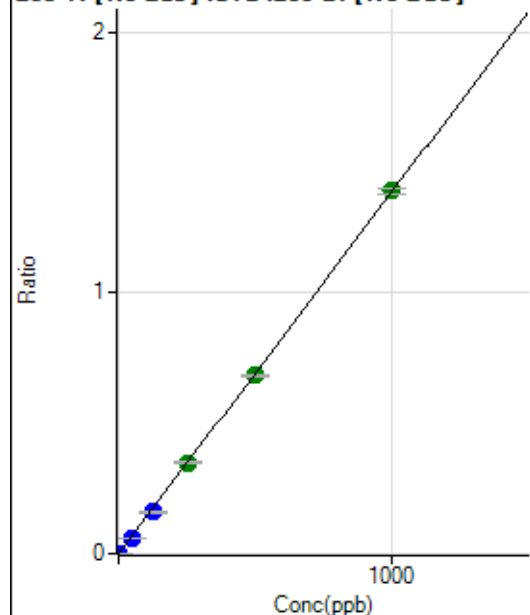
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			87.78		P	2.2
2	☐			74.44		P	2.6
3	☐			93.33		P	24.7
4	☐			125.56		P	4.1
5	☐			114.45		P	6.1
6	☐			136.67		P	4.2
7	☐			194.45		P	26.0
8	☐			167.78		P	6.4

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			54.44		P	9.4
2	☐			46.67		P	18.9
3	☐			72.22		P	34.6
4	☐			75.56		P	19.9
5	☐			61.11		P	3.1
6	☐			84.44		P	6.0
7	☐			111.11		P	25.0
8	☐			110.00		P	10.9

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	21.11	0.0000	P	48.1
2	☐	1.000	0.840	8955.25	0.0012	P	2.0
3	☐	50.000	44.640	482589.82	0.0618	P	2.7
4	☐	125.000	114.964	1222099.13	0.1592	P	1.5
5	☐	250.000	251.391	2687608.57	0.3481	A	1.3
6	☐	500.000	492.854	5312162.32	0.6824	A	0.1
7	☐	1000.000	1004.748	10532099.77	1.3911	A	1.6
8	☐			1912.38	0.0003	P	16.8

$$y = 0.0014 * x + 2.7816E-006$$

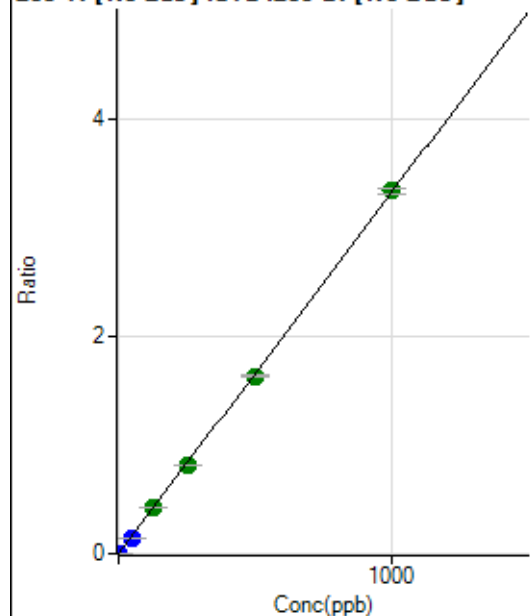
$$R = 0.9999$$

$$DL = 0.0029$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	85.56	0.0000	P	14.5
2	☐	1.000	0.841	21509.30	0.0028	P	0.7
3	☐	50.000	44.352	1148520.24	0.1471	P	3.1
4	☐	125.000	125.891	3205702.80	0.4176	A	0.6
5	☐	250.000	245.471	6286730.46	0.8142	A	1.5
6	☐	500.000	492.560	12718720.92	1.6337	A	1.3
7	☐	1000.000	1005.023	25237713.24	3.3334	A	1.3
8	☐			4425.22	0.0007	P	10.8

$$y = 0.0033 * x + 1.1297E-005$$

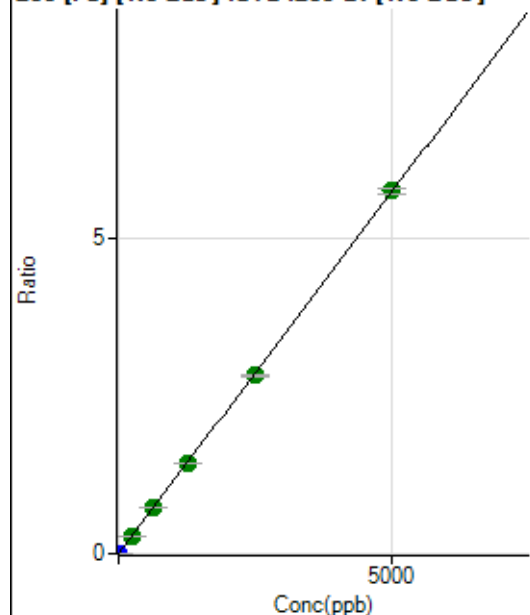
$$R = 0.9999$$

$$DL = 0.001479$$

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	342.23	0.0000	P	12.6
2	☐	1.000	0.822	7592.19	0.0010	P	3.2
3	☐	250.000	246.143	2206824.69	0.2826	A	2.4
4	☐	625.000	632.411	5574299.22	0.7261	A	0.9
5	☐	1250.000	1250.355	11083960.81	1.4355	A	1.1
6	☐	2500.000	2460.962	21993770.23	2.8253	A	0.9
7	☐	5000.000	5018.697	43621488.52	5.7616	A	1.4
8	☐			11133.52	0.0018	P	4.0

$$y = 0.0011 * x + 4.5167E-005$$

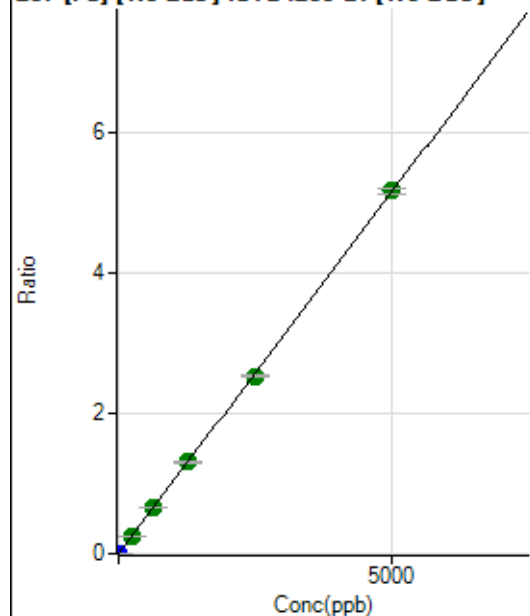
$$R = 1.0000$$

$$DL = 0.01492$$

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	277.78	0.0000	P	7.0
2	☐	1.000	0.804	6628.33	0.0009	P	2.5
3	☐	250.000	246.307	1979181.52	0.2535	A	2.1
4	☐	625.000	636.218	5025856.38	0.6546	A	0.6
5	☐	1250.000	1264.454	10046011.03	1.3010	A	0.8
6	☐	2500.000	2452.148	19640696.10	2.5231	A	1.4
7	☐	5000.000	5019.095	39098920.53	5.1642	A	1.7
8	☐			9447.81	0.0016	P	5.5

$$y = 0.0010 * x + 3.6654E-005$$

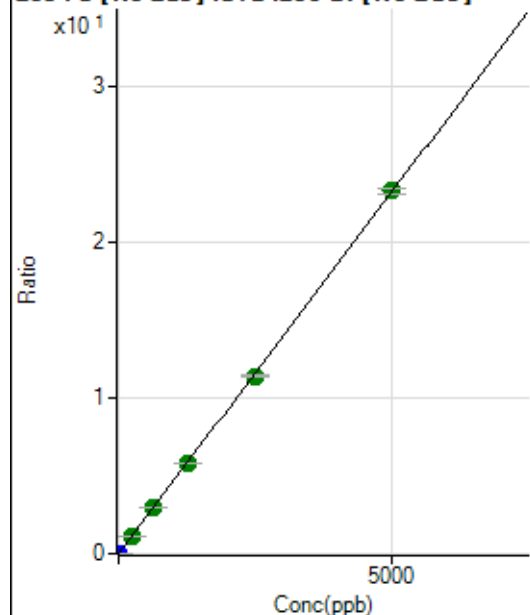
$$R = 0.9999$$

$$DL = 0.007445$$

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	1242.26	0.0002	P	2.8
2	☐	1.000	0.819	30432.51	0.0040	P	1.7
3	☐	250.000	247.250	8959233.18	1.1475	A	2.8
4	☐	625.000	632.335	22528874.73	2.9345	A	0.4
5	☐	1250.000	1252.143	44867026.76	5.8106	A	1.0
6	☐	2500.000	2459.332	88841348.96	11.4125	A	0.8
7	☐	5000.000	5019.019	176339397.6	23.2904	A	1.2
8	☐			43652.12	0.0072	P	3.7

$$y = 0.0046 * x + 1.6392E-004$$

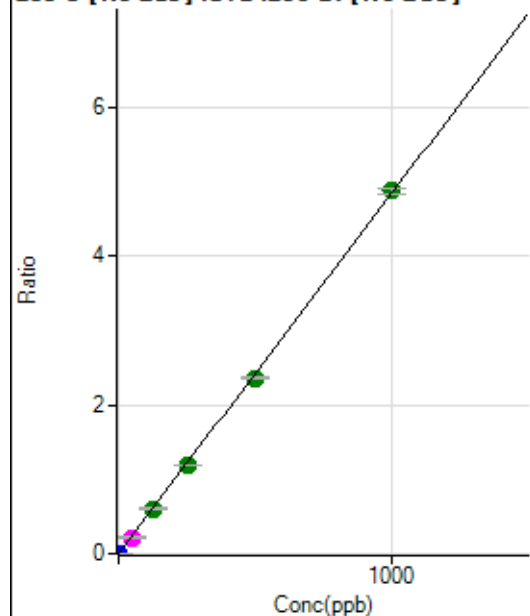
$$R = 0.9999$$

$$DL = 0.002971$$

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	8.89	0.0000	P	57.8
2	☐	1.000	0.790	29350.40	0.0038	P	2.1
3	☐	50.000	45.171	1705229.09	0.2186	M	10.4
4	☐	125.000	125.252	4654070.94	0.6062	A	1.0
5	☐	250.000	246.498	9211644.93	1.1930	A	1.3
6	☐	500.000	488.034	18387448.48	2.3620	A	0.9
7	☐	1000.000	1007.069	36901671.95	4.8740	A	1.3
8	☐			4800.93	0.0008	P	7.5

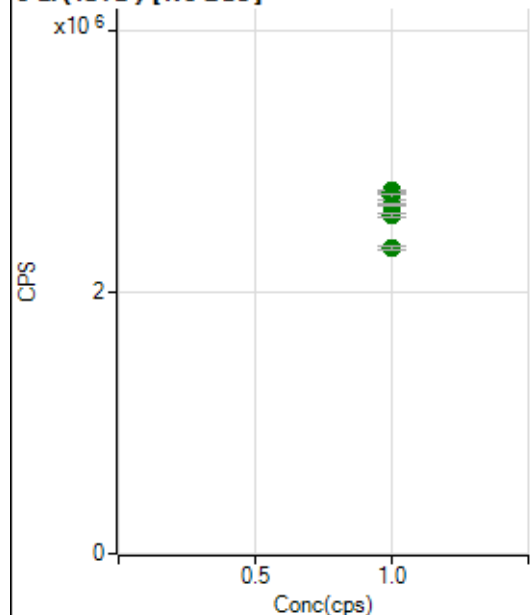
$$y = 0.0048 * x + 1.1762E-006$$

$$R = 0.9999$$

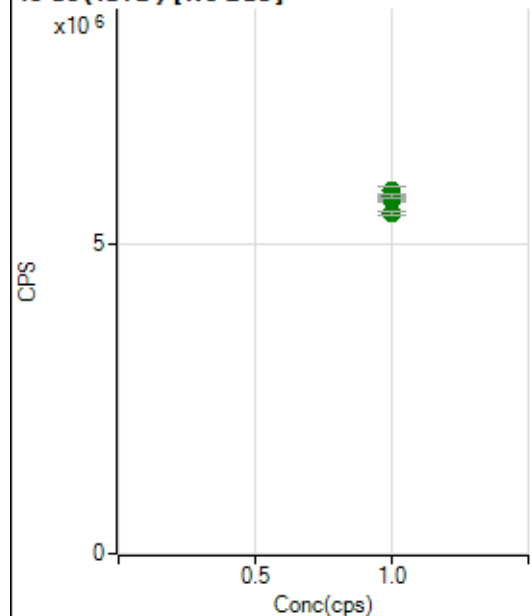
$$DL = 0.0004214$$

Weight: <None>

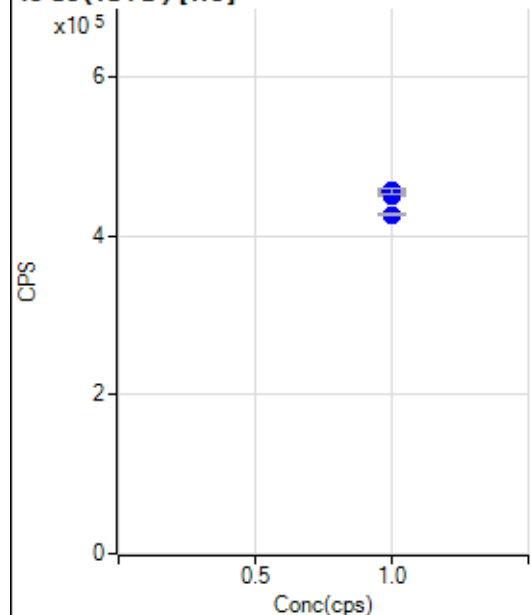
Min Conc: 0

6 Li (ISTD) [No Gas]

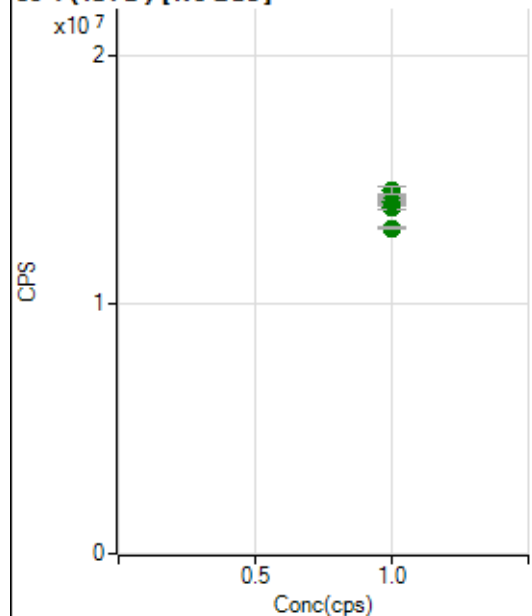
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2769593.92		A	0.8
2	☐	1.000		2756337.21		A	0.2
3	☐	1.000		2761708.43		A	1.4
4	☐	1.000		2723134.47		A	1.4
5	☐	1.000		2660157.58		A	0.1
6	☐	1.000		2659461.17		A	0.7
7	☐	1.000		2580552.56		A	1.3
8	☐	1.000		2331748.49		A	1.6

45 Sc (ISTD) [No Gas]

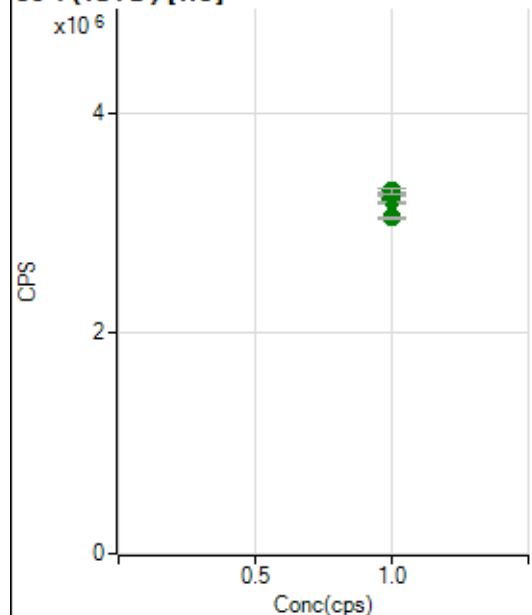
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5780723.53		A	0.4
2	☐	1.000		5773356.93		A	0.4
3	☐	1.000		5862789.50		A	2.1
4	☐	1.000		5776355.75		A	1.5
5	☐	1.000		5722458.04		A	0.9
6	☐	1.000		5744151.72		A	1.3
7	☐	1.000		5780149.01		A	1.0
8	☐	1.000		5492913.25		A	0.9

45 Sc (ISTD) [He]

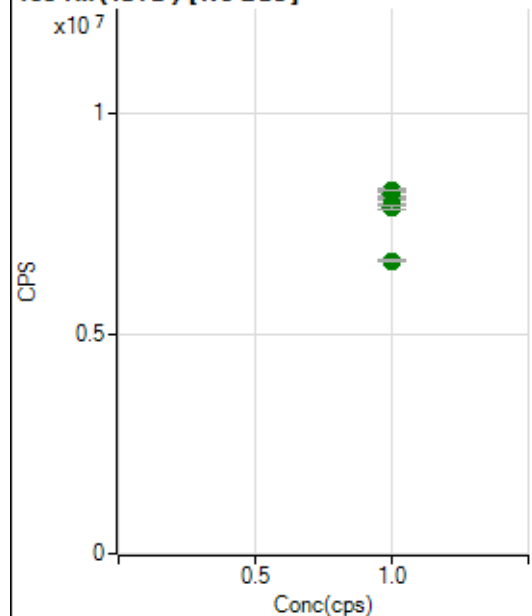
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		450955.80		P	0.5
2	☐	1.000		455024.79		P	0.9
3	☐	1.000		456479.09		P	0.6
4	☐	1.000		454514.45		P	0.3
5	☐	1.000		452418.81		P	1.1
6	☐	1.000		456314.79		P	1.1
7	☐	1.000		456984.46		P	1.5
8	☐	1.000		426993.90		P	0.3

89 Y (ISTD) [No Gas]

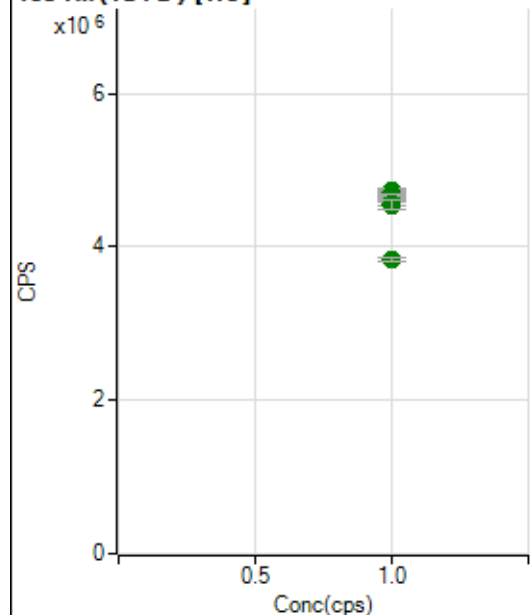
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13869681.60		A	1.3
2	☐	1.000		13917783.68		A	1.1
3	☐	1.000		14170241.59		A	1.0
4	☐	1.000		14098909.51		A	1.0
5	☐	1.000		14215946.87		A	0.4
6	☐	1.000		14394730.90		A	0.4
7	☐	1.000		14547730.89		A	2.1
8	☐	1.000		13069731.61		A	0.6

89 Y(ISTD) [He]

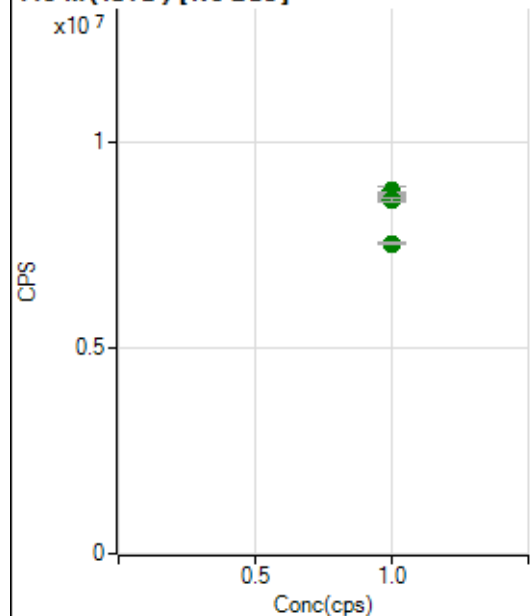
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3212917.66		A	1.7
2	☐	1.000		3261079.19		A	0.7
3	☐	1.000		3252765.23		A	0.9
4	☐	1.000		3220851.31		A	1.2
5	☐	1.000		3272349.33		A	0.9
6	☐	1.000		3293444.08		A	0.9
7	☐	1.000		3292042.14		A	1.2
8	☐	1.000		3051663.70		A	0.7

103 Rh(ISTD) [No Gas]

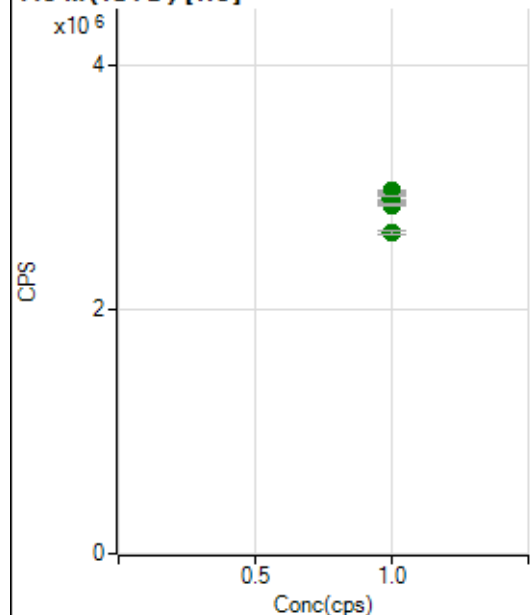
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8187122.66		A	1.3
2	☐	1.000		8253571.41		A	0.9
3	☐	1.000		8201486.13		A	1.7
4	☐	1.000		8050616.75		A	1.7
5	☐	1.000		8065676.13		A	0.6
6	☐	1.000		7961423.70		A	0.4
7	☐	1.000		7877377.38		A	1.1
8	☐	1.000		6661462.19		A	0.8

103 Rh (ISTD) [He]

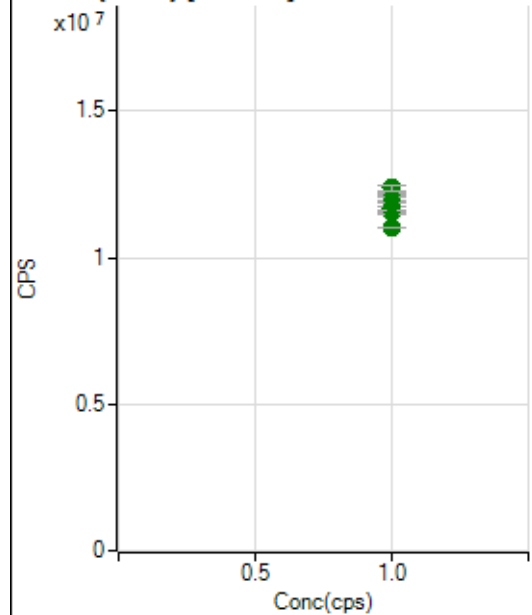
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4702814.41		A	0.4
2	☐	1.000		4727108.37		A	0.5
3	☐	1.000		4721686.94		A	1.8
4	☐	1.000		4618341.04		A	1.2
5	☐	1.000		4676245.42		A	0.5
6	☐	1.000		4572180.14		A	1.6
7	☐	1.000		4541803.93		A	3.0
8	☐	1.000		3835085.46		A	0.8

115 In (ISTD) [No Gas]

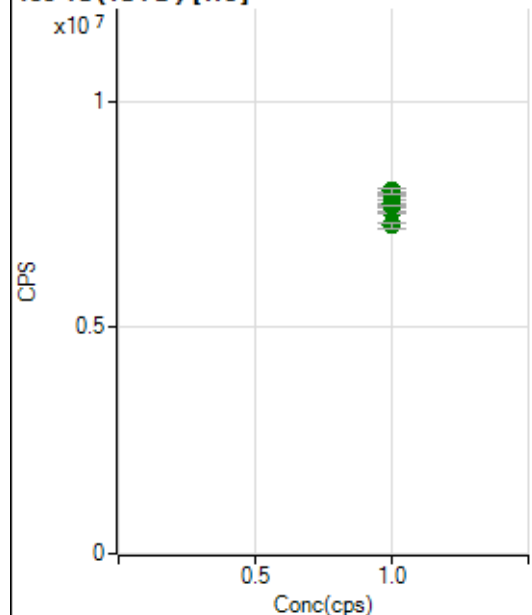
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8677070.23		A	1.3
2	☐	1.000		8709755.45		A	1.3
3	☐	1.000		8813320.38		A	2.5
4	☐	1.000		8628686.12		A	1.1
5	☐	1.000		8775724.36		A	0.5
6	☐	1.000		8767520.27		A	0.8
7	☐	1.000		8585281.45		A	0.9
8	☐	1.000		7543359.82		A	0.2

115 In (ISTD) [He]

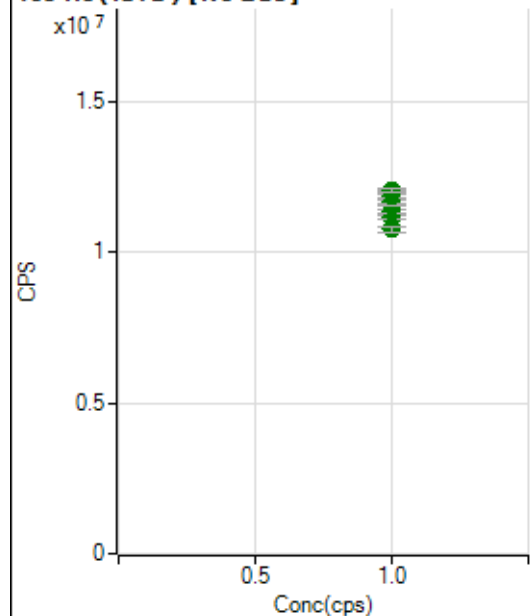
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2926687.54		A	2.2
2	☐	1.000		2967747.05		A	0.8
3	☐	1.000		2942328.69		A	0.4
4	☐	1.000		2909975.98		A	1.8
5	☐	1.000		2901727.28		A	2.3
6	☐	1.000		2897918.00		A	1.8
7	☐	1.000		2854437.74		A	0.8
8	☐	1.000		2630569.62		A	0.9

159 Tb (ISTD) [No Gas]

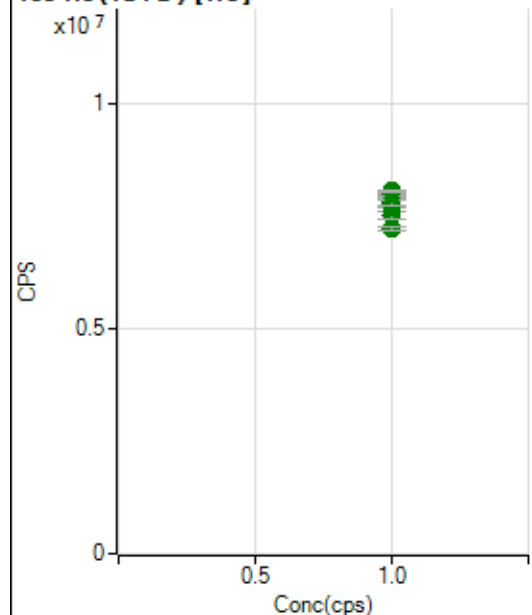
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11534103.72		A	0.4
2	☐	1.000		11677722.88		A	1.3
3	☐	1.000		11939492.88		A	2.7
4	☐	1.000		11907108.85		A	0.8
5	☐	1.000		12105412.74		A	0.7
6	☐	1.000		12253863.98		A	0.5
7	☐	1.000		12383894.54		A	1.8
8	☐	1.000		11013955.95		A	0.2

159 Tb (ISTD) [He]

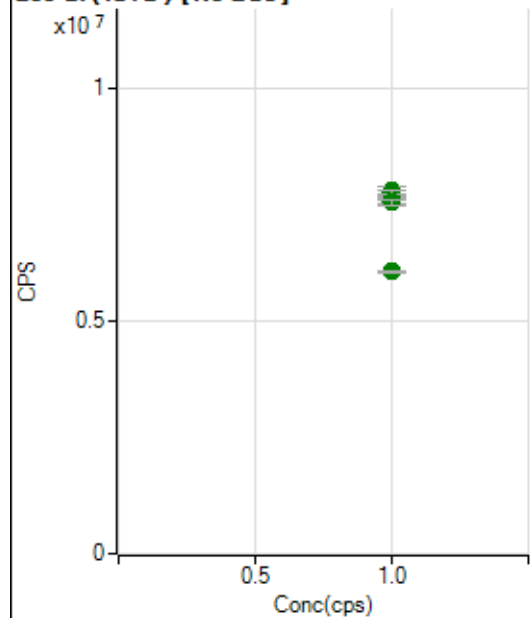
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7551996.62		A	0.7
2	☐	1.000		7709779.75		A	0.9
3	☐	1.000		7704184.19		A	1.1
4	☐	1.000		7758844.12		A	2.0
5	☐	1.000		7926422.45		A	0.7
6	☐	1.000		7957291.90		A	0.5
7	☐	1.000		8021840.85		A	1.7
8	☐	1.000		7252716.28		A	1.7

165 Ho (ISTD) [No Gas]

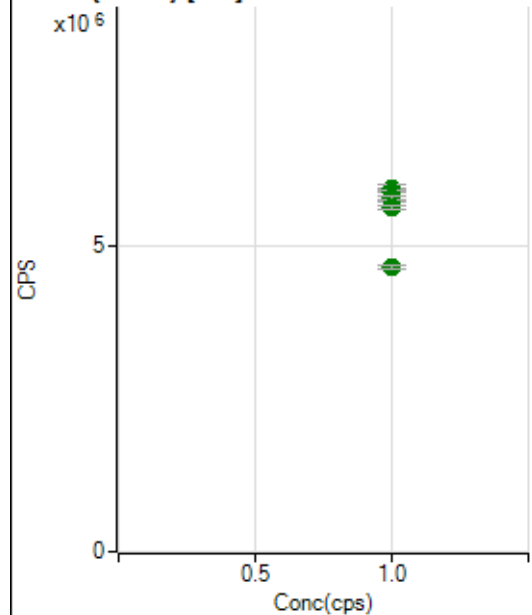
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11156233.03		A	0.9
2	☐	1.000		11338875.53		A	0.9
3	☐	1.000		11642574.69		A	2.0
4	☐	1.000		11564028.72		A	0.4
5	☐	1.000		11887826.21		A	1.3
6	☐	1.000		11986242.46		A	0.8
7	☐	1.000		12032139.54		A	1.1
8	☐	1.000		10766261.37		A	2.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7504353.15		A	2.2
2	☐	1.000		7676485.79		A	0.4
3	☐	1.000		7815086.55		A	2.0
4	☐	1.000		7774946.13		A	1.4
5	☐	1.000		7975107.66		A	0.4
6	☐	1.000		7985960.85		A	1.3
7	☐	1.000		8049027.52		A	0.8
8	☐	1.000		7199948.92		A	1.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7579196.07		A	0.8
2	☐	1.000		7677463.50		A	0.9
3	☐	1.000		7810681.00		A	2.5
4	☐	1.000		7677296.90		A	0.4
5	☐	1.000		7721744.47		A	0.6
6	☐	1.000		7784714.61		A	0.9
7	☐	1.000		7572161.62		A	1.6
8	☐	1.000		6071186.37		A	1.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5728877.55		A	0.5
2	☐	1.000		5921478.80		A	0.7
3	☐	1.000		5928103.87		A	2.1
4	☐	1.000		5819479.08		A	2.3
5	☐	1.000		5863413.17		A	1.2
6	☐	1.000		5777126.72		A	0.8
7	☐	1.000		5628640.05		A	0.9
8	☐	1.000		4649657.46		A	1.0

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7032623MS.b
Acq. Date-Time 2023-03-26 15:36:00
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		15188	151875.19			0.363	5.000
24		163854	1638540.22			0.926	5.000
25		22444	224439.31			0.569	5.000
26		25860	258604.77			0.353	5.000
59		120300	1202998.92			0.411	5.000
113		13252	132521.88			0.330	5.000
115		178737	1787370.19			0.746	5.000
206		43707	437071.05			0.886	5.000
207		40097	400971.63			1.017	5.000
208		98879	988785.66			0.388	5.000
220		0	1.70			79.466	

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

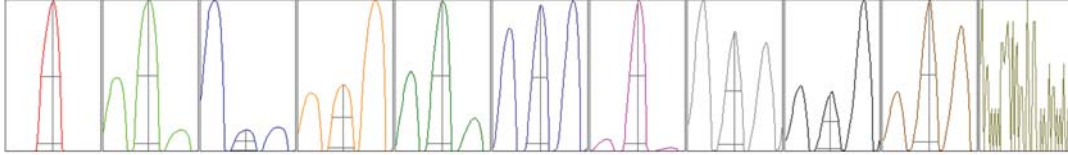
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	15135	15253	15198	15224	15128
24	162690	164078	164476	165931	162095
25	22274	22435	22449	22634	22428
26	25713	25849	25948	25874	25919
59	120526	120622	120513	120413	119425
113	13182	13239	13286	13269	13286
115	176491	178950	179507	178808	179930
206	43248	43327	44053	43992	43916
207	39492	39902	40504	40392	40195
208	99097	98399	99206	99164	98527

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	27586.73	9.00	8.90 - 9.10	
24	268722.42	23.95	23.90 - 24.10	
25	37149.82	24.95	24.90 - 25.10	
26	42185.31	25.95	25.90 - 26.10	
59	225961.04	59.00	58.90 - 59.10	
113	27758.54	113.05	112.90 - 113.10	
115	371071.88	115.05	114.90 - 115.10	
206	88564.30	206.00	205.90 - 206.10	
207	78394.61	206.95	206.90 - 207.10	
208	204288.86	208.00	207.90 - 208.10	
220	0.00	219.60	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.780	0.900	
24	0.65	0.792	0.900	
25	0.63	0.809	0.900	
26	0.64	0.824	0.900	
59	0.55	0.780	0.900	
113	0.49	0.718	0.900	
115	0.49	0.714	0.900	
206	0.50	0.812	0.900	
207	0.51	0.801	0.900	
208	0.48	0.811	0.900	
220	0.25	0.250		

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	9.2 V	Deflect	14.8 V
Extract 2	-115.0 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	190 V		

QP Parameters

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

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	1.1 mm
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EM

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

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		39057	390573.95			0.340	
89		72654	726544.27			0.654	
205		39970	399695.68			0.490	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	38989	39070	38979	38965	39283
89	71885	72844	72901	72538	73103
205	39845	39811	39830	40138	40224

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	8.9 V	Deflect	3.8 V
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US EPA Tune Check Report

Extract 2	-105.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-60 V	Cell Exit	-60 V		

Cell Parameters

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

QP Parameters

Mass Gain	122	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	1.1 mm
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EM

Discriminator	3.2 mV	Analog HV	2258 V	Pulse HV	1490 V
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