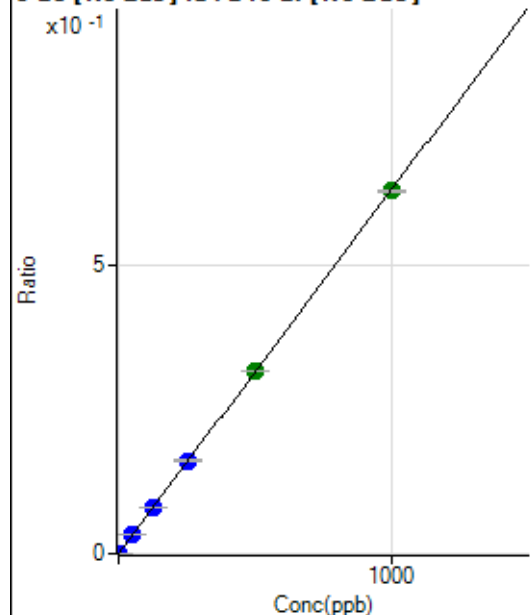


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7080422-MS.b\
Analysis File: P7080422-MS.batch.bin
DA Date-Time: 2022-08-04 13:55:55
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-08-04 10:00:32
2	006CALS.d	S02	2022-08-04 10:06:21
3	007CALS.d	S03	2022-08-04 10:09:15
4	008CALS.d	S04	2022-08-04 10:12:04
5	009CALS.d	S05	2022-08-04 10:14:51
6	010CALS.d	S06	2022-08-04 10:17:40
7	011CALS.d	S07	2022-08-04 10:20:27
8	012CALS.d	S08	2022-08-04 10:23:16

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	14.45	0.0000	P	74.4
2	☐	1.000	1.038	2926.97	0.0007	P	3.1
3	☐	50.000	51.043	145054.56	0.0321	P	1.7
4	☐	125.000	126.699	352100.25	0.0797	P	1.4
5	☐	250.000	255.462	692202.68	0.1607	P	1.5
6	☐	500.000	503.283	1320706.42	0.3166	A	0.5
7	☐	1000.000	996.728	2555807.10	0.6270	A	0.7
8	☐			705.58	0.0002	P	13.5

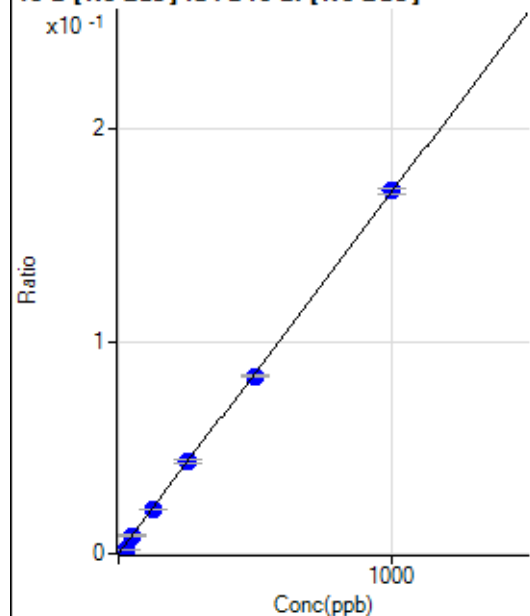
$$y = 6.2902\text{E-}004 * x + 3.2265\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01144$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	516.69	0.0001	P	19.4
2	☐	25.000	11.781	9453.11	0.0021	P	4.5
3	☐	50.000	49.193	38306.49	0.0085	P	4.3
4	☐	125.000	123.117	92982.05	0.0210	P	1.3
5	☐	250.000	253.409	186089.49	0.0432	P	3.6
6	☐	500.000	491.488	349070.33	0.0837	P	1.3
7	☐	1000.000	1004.010	696346.68	0.1708	P	1.4
8	☐			24066.53	0.0059	P	15.2

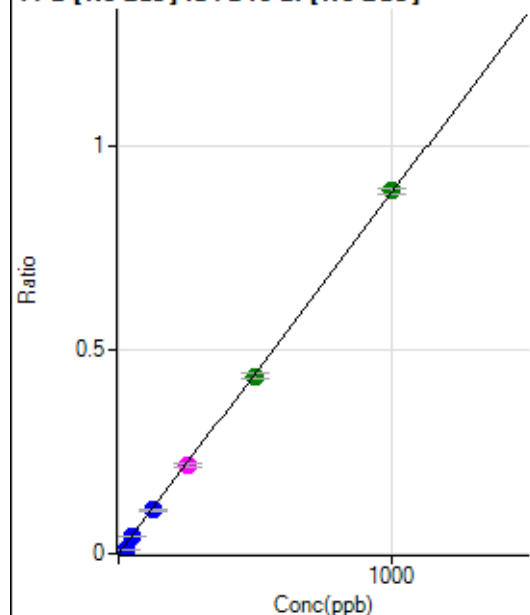
$$y = 1.7001\text{E-}004 * x + 1.1545\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.3943$$

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	2789.21	0.0006	P	1.7
2	☐	25.000	11.348	47473.56	0.0106	P	4.1
3	☐	50.000	47.835	193509.77	0.0428	P	5.3
4	☐	125.000	120.764	473618.69	0.1072	P	3.6
5	☐	250.000	246.410	939540.50	0.2181	M	4.1
6	☐	500.000	492.035	1814402.34	0.4349	A	2.6
7	☐	1000.000	1005.859	3621478.08	0.8883	A	1.5
8	☐			126154.38	0.0308	P	13.9

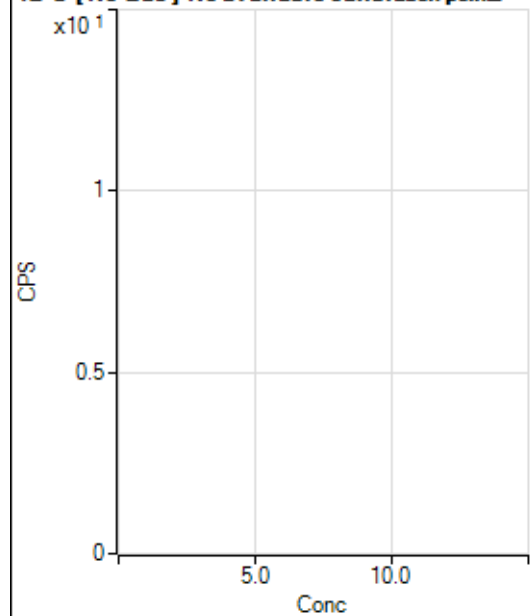
$$y = 8.8254E-004 * x + 6.2295E-004$$

$$R = 0.9999$$

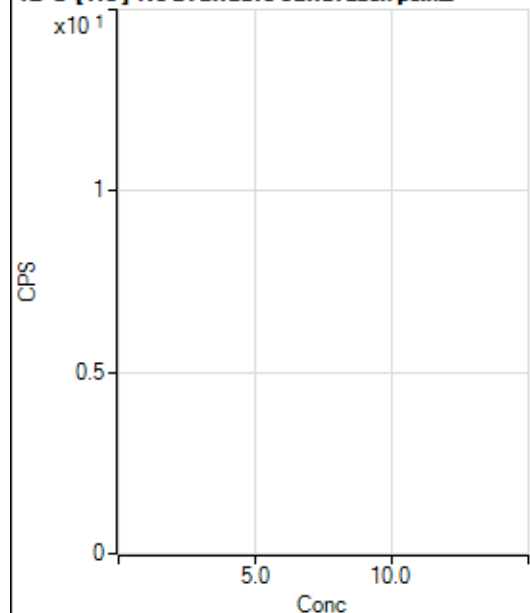
$$DL = 0.0353$$

Weight: <None>

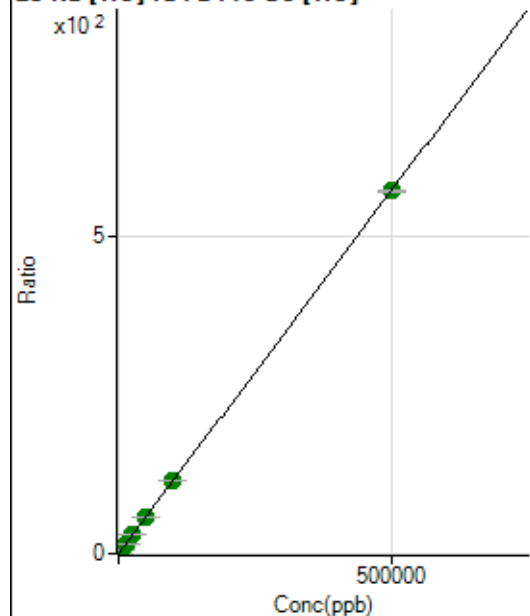
Min Conc: 0

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	31621.55	0.0337	P	0.7
2	☐	500.000	507.826	582747.97	0.6154	P	0.4
3	☐	5000.000	5275.941	5799832.36	6.0768	A	1.3
4	☐	12500.000	13183.892	14080329.83	15.1346	A	1.2
5	☐	25000.000	26320.912	27948621.00	30.1818	A	1.0
6	☐	50000.000	51267.750	54960204.01	58.7561	A	0.8
7	☐	100000.00	101164.84	110081905.24	115.9085	A	1.0
8	☐	500000.00	499554.34	558501105.08	572.2264	A	0.2

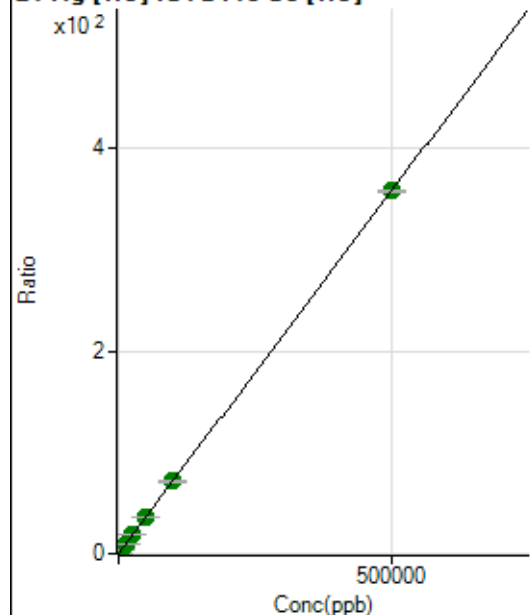
$$y = 0.0011 * x + 0.0337$$

$$R = 1.0000$$

$$DL = 0.6064$$

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	646.32	0.0007	P	14.4
2	☐	500.000	514.750	349933.61	0.3695	P	0.9
3	☐	5000.000	5166.041	3533520.30	3.7023	A	1.0
4	☐	12500.000	12812.831	8542114.49	9.1813	A	0.7
5	☐	25000.000	25440.949	16881160.79	18.2296	A	0.4
6	☐	50000.000	49592.999	33238742.87	35.5350	A	1.0
7	☐	100000.00	99738.784	67884551.06	71.4655	A	1.1
8	☐	500000.00	500061.40	349712955.97	358.3043	A	0.8

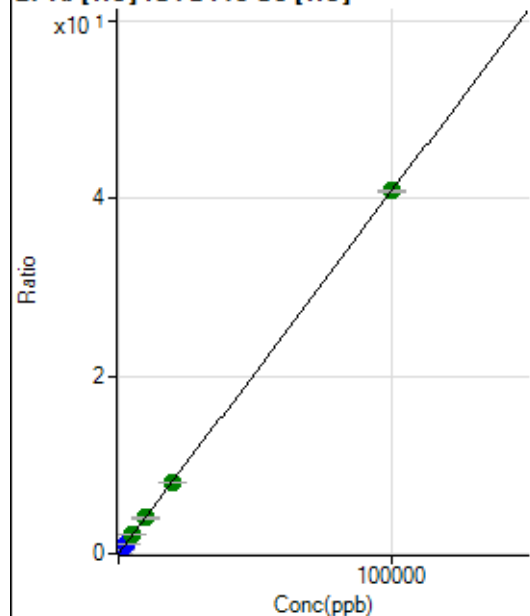
$$y = 7.1652E-004 * x + 6.8864E-004$$

$$R = 1.0000$$

$$DL = 0.4141$$

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	407.42	0.0004	P	7.1
2	☐	20.000	21.110	8559.94	0.0090	P	4.8
3	☐	1000.000	1001.844	390195.34	0.4088	P	0.2
4	☐	2500.000	2488.203	944097.69	1.0147	P	0.5
5	☐	5000.000	5084.264	1919638.24	2.0730	A	0.9
6	☐	10000.000	9826.303	3747242.68	4.0061	A	1.0
7	☐	20000.000	19602.588	7590334.14	7.9914	A	0.2
8	☐	100000.00	100092.91	39824333.30	40.8031	A	0.5

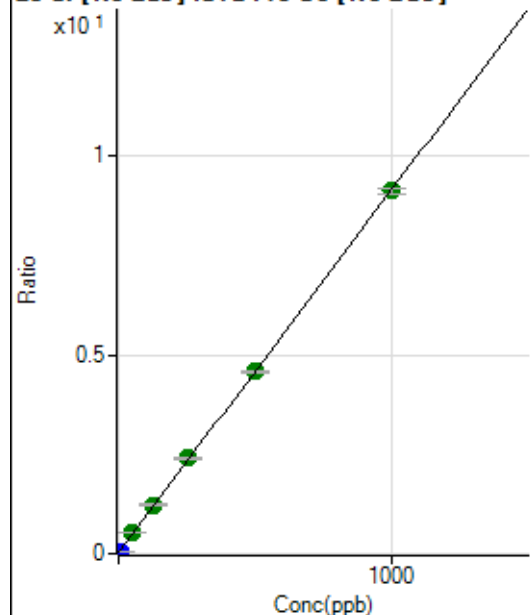
$$y = 4.0765E-004 * x + 4.3412E-004$$

$$R = 1.0000$$

$$DL = 0.227$$

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	271638.98	0.0259	P	0.7
2	☐	10.000	1.029	371049.18	0.0353	P	2.5
3	☐	50.000	53.532	5549915.49	0.5146	A	1.6
4	☐	125.000	131.214	12941330.93	1.2239	A	2.8
5	☐	250.000	260.391	25001039.45	2.4034	A	1.4
6	☐	500.000	498.328	47193396.89	4.5758	A	1.7
7	☐	1000.000	997.375	94667581.98	9.1323	A	1.4
8	☐			2434621.56	0.2351	A	10.9

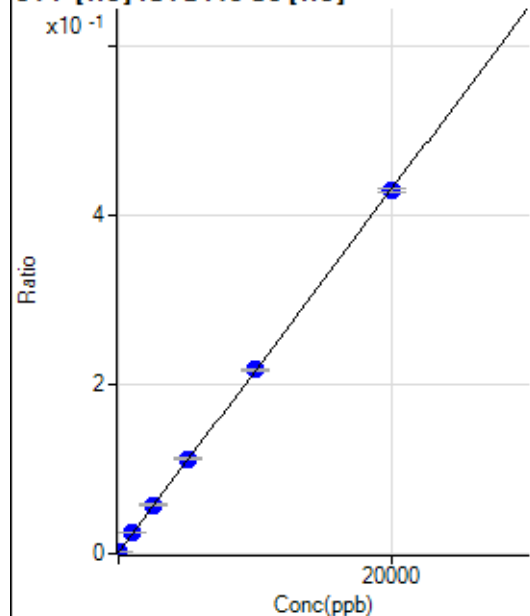
$$y = 0.0091 * x + 0.0259$$

$$R = 0.9998$$

$$DL = 0.06148$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-11.127	1280.64	0.0014	P	17.7
2	☐	0.000	11.127	1744.59	0.0018	P	4.5
3	☐	1000.000	1062.523	23304.45	0.0244	P	0.9
4	☐	2500.000	2613.332	53703.35	0.0577	P	1.2
5	☐	5000.000	5166.376	104212.52	0.1125	P	0.2
6	☐	10000.000	10059.134	203522.92	0.2176	P	1.7
7	☐	20000.000	19911.546	407590.06	0.4291	P	1.1
8	☐			1564.01	0.0016	P	14.6

$$y = 2.1472E-005 * x + 0.0016$$

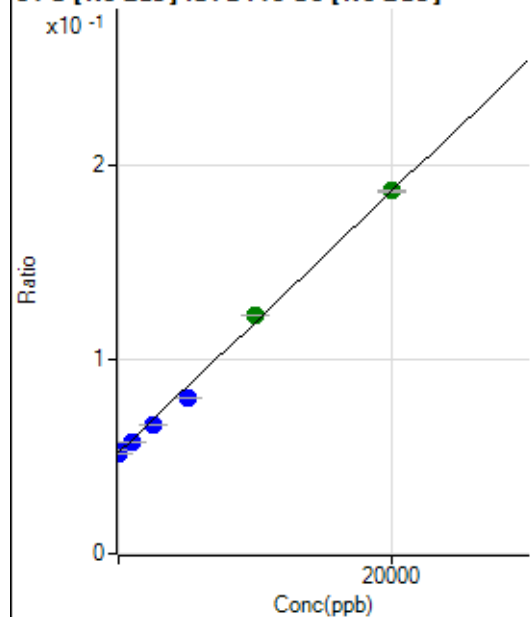
$$R = 0.9999$$

$$DL = 22.61$$

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	-27.211	544097.66	0.0518	P	0.1
2	☐	0.000	27.211	549071.63	0.0522	P	2.6
3	☐	1000.000	800.465	618648.98	0.0574	P	0.1
4	☐	2500.000	2105.685	699298.21	0.0661	P	0.9
5	☐	5000.000	4177.404	832499.93	0.0800	P	0.6
6	☐	10000.000	10486.457	1262341.38	0.1224	A	0.4
7	☐	20000.000	20021.687	1932467.27	0.1864	A	0.8
8	☐			405628.53	0.0393	P	0.9

$$y = 6.7135E-006 * x + 0.0520$$

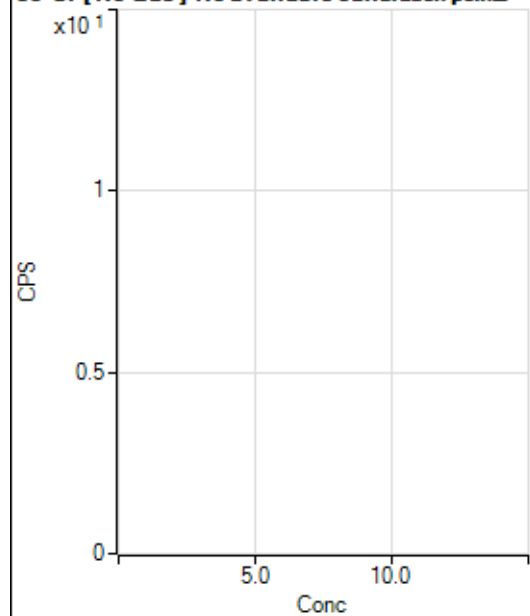
R = 0.9986

DL = 317.6

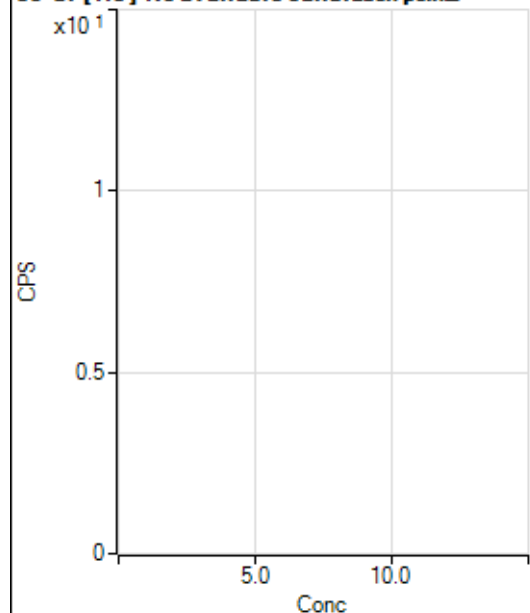
Weight: <None>

Min Conc: 0

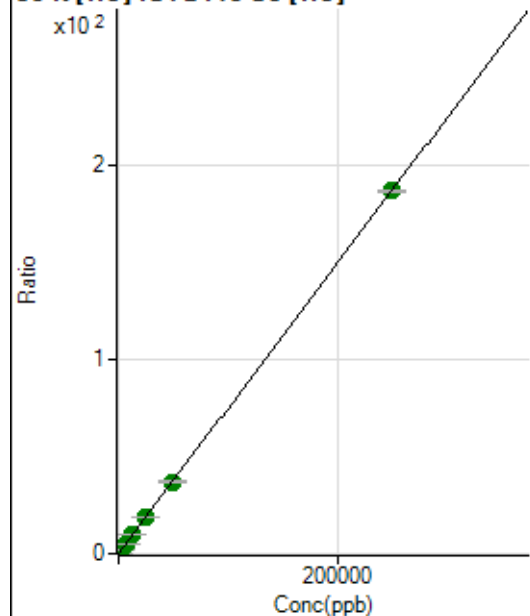
35 Cl [No Gas] No available calibration points



	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	90033.07	0.0959	P	1.0
2	☐	500.000	523.809	461122.04	0.4869	P	0.5
3	☐	2500.000	2531.682	1895191.49	1.9858	A	2.2
4	☐	6250.000	6339.444	4491974.49	4.8282	A	0.6
5	☐	12500.000	12535.579	8754144.03	9.4534	A	0.7
6	☐	25000.000	24944.405	17506834.24	18.7163	A	1.0
7	☐	50000.000	49375.813	35097783.77	36.9538	A	1.0
8	☐	250000.00	250126.01	182328299.91	186.8091	A	0.8

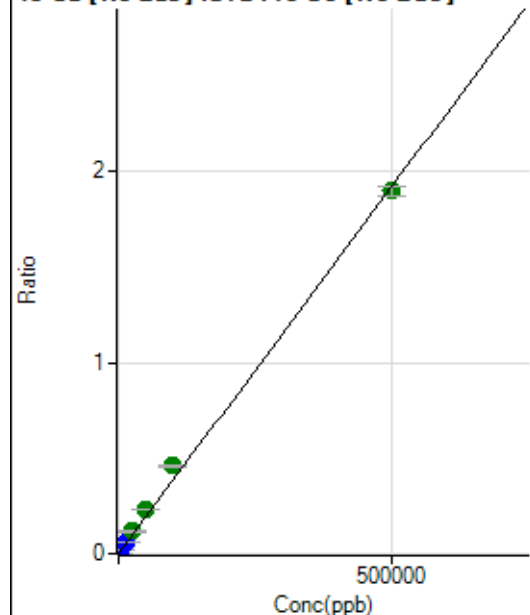
$$y = 7.4648\text{E-}004 * x + 0.0959$$

$$R = 1.0000$$

$$DL = 3.826$$

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	730.59	0.0001	P	4.2
2	☐	500.000	512.027	21404.52	0.0020	P	1.5
3	☐	5000.000	6078.434	252136.03	0.0234	P	0.5
4	☐	12500.000	15037.382	610497.48	0.0577	P	2.4
5	☐	25000.000	30200.302	1205406.88	0.1159	A	0.9
6	☐	50000.000	59641.946	2359767.52	0.2288	A	1.1
7	☐	100000.00	119566.71	4754571.59	0.4586	A	0.4
8	☐	500000.00	494788.21	19593872.32	1.8975	A	2.5

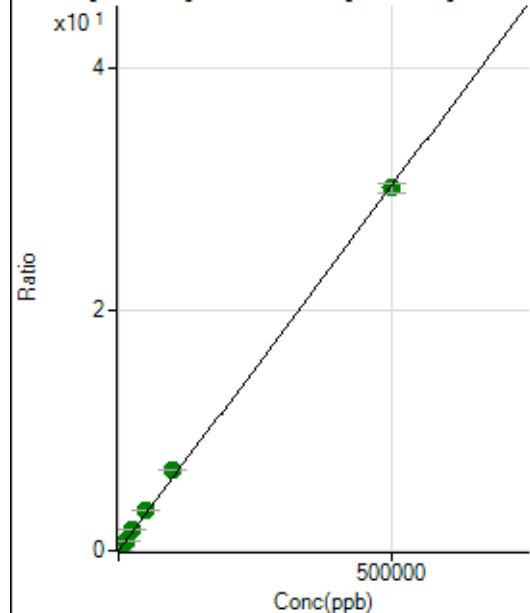
$$y = 3.8349E-006 * x + 6.9558E-005$$

$$R = 0.9991$$

$$DL = 2.29$$

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	25750.22	0.0025	P	3.1
2	☐	500.000	528.484	362747.62	0.0345	P	0.8
3	☐	5000.000	5591.116	3677710.97	0.3410	A	0.8
4	☐	12500.000	13741.214	8825360.53	0.8345	A	1.0
5	☐	25000.000	27704.252	17476239.11	1.6801	A	0.4
6	☐	50000.000	54685.298	34178574.37	3.3139	A	0.4
7	☐	100000.00	110135.46	69165195.30	6.6716	A	0.7
8	☐	500000.00	497332.19	310991037.51	30.1179	A	2.8

$$y = 6.0554E-005 * x + 0.0025$$

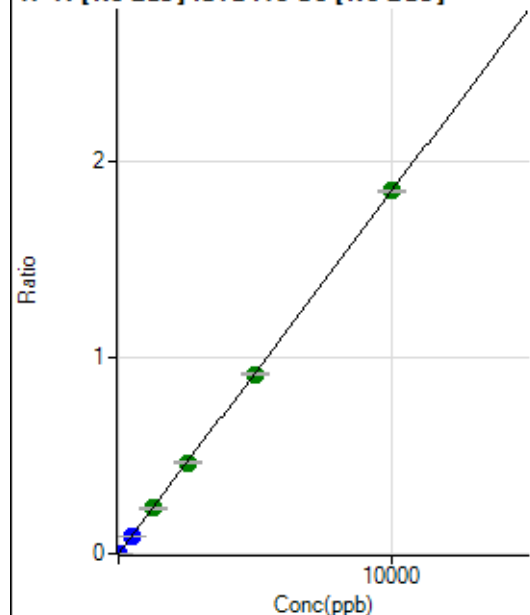
$$R = 0.9998$$

$$DL = 3.768$$

Weight: <None>

Min Conc: 0

47 Ti [No Gas] ISTD :45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	291.68	0.0000	P	14.7
2	☐	5.000	5.120	10248.19	0.0010	P	3.4
3	☐	500.000	499.373	995352.96	0.0923	P	0.9
4	☐	1250.000	1252.644	2447796.13	0.2315	A	1.1
5	☐	2500.000	2519.817	4843709.01	0.4656	A	2.0
6	☐	5000.000	4961.725	9456015.92	0.9168	A	0.9
7	☐	10000.000	10013.884	19181252.69	1.8502	A	0.8
8	☐			5312.17	0.0005	P	14.5

$$y = 1.8477E-004 * x + 2.7762E-005$$

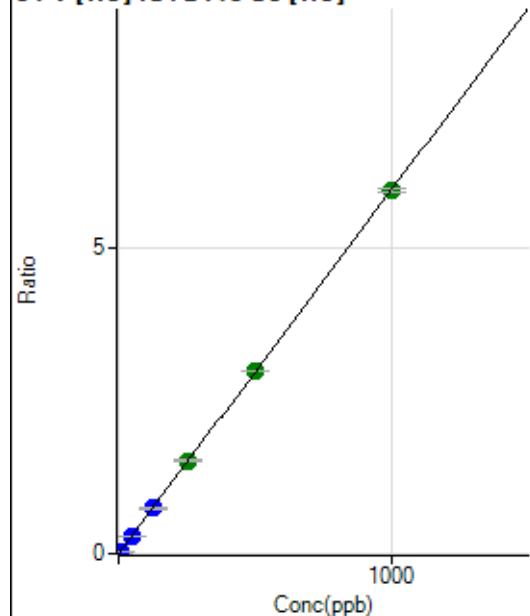
$$R = 1.0000$$

$$DL = 0.06642$$

Weight: <None>

Min Conc: 0

51 V [He] ISTD :45 Sc [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	18.89	0.0000	P	44.4
2	☐	5.000	4.943	27919.24	0.0295	P	1.1
3	☐	50.000	50.063	284805.63	0.2984	P	0.2
4	☐	125.000	124.423	689987.15	0.7416	P	1.4
5	☐	250.000	255.221	1408593.83	1.5212	A	2.0
6	☐	500.000	502.861	2803684.54	2.9972	A	0.3
7	☐	1000.000	997.334	5645532.63	5.9444	A	1.1
8	☐			1432.31	0.0015	P	8.5

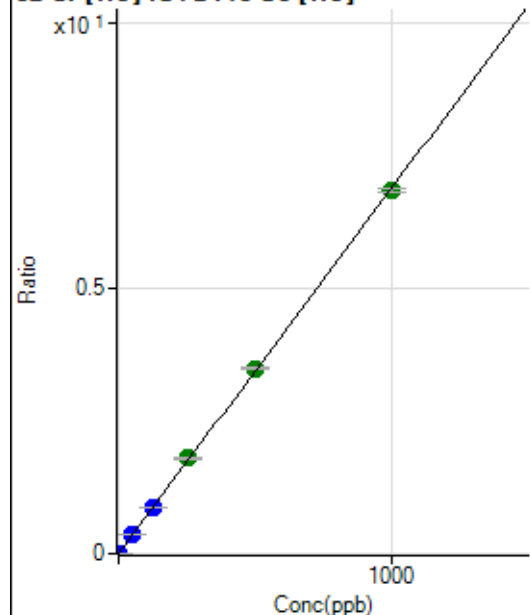
$$y = 0.0060 * x + 2.0123E-005$$

$$R = 1.0000$$

$$DL = 0.004501$$

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	3112.57	0.0033	P	1.7
2	☐	2.000	2.107	16865.12	0.0178	P	1.7
3	☐	50.000	51.032	338263.18	0.3544	P	0.7
4	☐	125.000	127.435	818770.03	0.8801	P	1.3
5	☐	250.000	261.493	1669134.30	1.8024	A	1.9
6	☐	500.000	507.565	3269693.84	3.4954	A	1.1
7	☐	1000.000	992.988	6491542.75	6.8352	A	1.0
8	☐			17045.30	0.0175	P	2.4

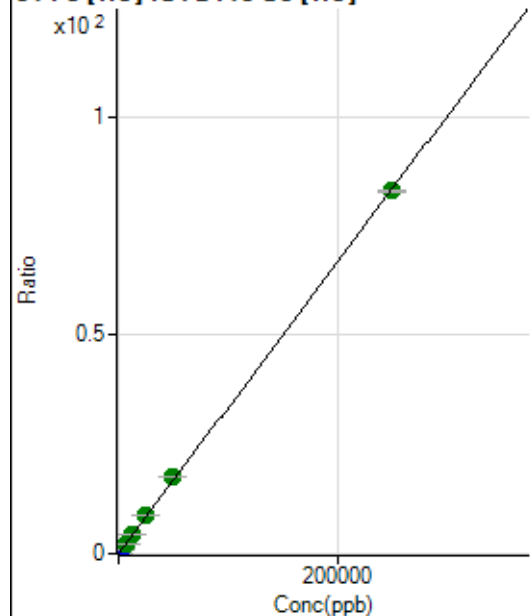
$$y = 0.0069 * x + 0.0033$$

$$R = 0.9999$$

$$DL = 0.02483$$

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	2806.49	0.0030	P	3.9
2	☐	50.000	55.504	20341.25	0.0215	P	2.3
3	☐	2500.000	2791.727	890426.53	0.9330	P	0.6
4	☐	6250.000	6875.590	2133611.74	2.2934	A	2.0
5	☐	12500.000	13582.715	4192600.16	4.5277	A	1.2
6	☐	25000.000	26655.343	8308541.37	8.8824	A	0.9
7	☐	50000.000	52503.561	16613509.28	17.4930	A	1.0
8	☐	250000.00	249261.06	81044859.50	83.0368	A	0.6

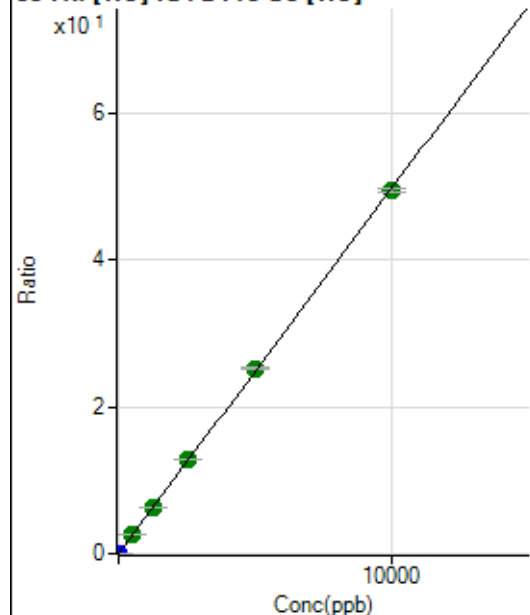
$$y = 3.3312E-004 * x + 0.0030$$

$$R = 0.9999$$

$$DL = 1.056$$

Weight: <None>

Min Conc: 0

⁵⁵Mn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	854.48	0.0009	P	2.4
2	☐	1.000	1.133	6189.11	0.0065	P	1.5
3	☐	500.000	513.379	2433005.01	2.5492	A	0.4
4	☐	1250.000	1265.695	5845925.88	6.2835	A	1.0
5	☐	2500.000	2572.166	11823911.77	12.7686	A	0.9
6	☐	5000.000	5080.978	23592302.70	25.2218	A	0.8
7	☐	10000.000	9938.839	46854593.75	49.3351	A	1.0
8	☐			31446.30	0.0322	P	0.2

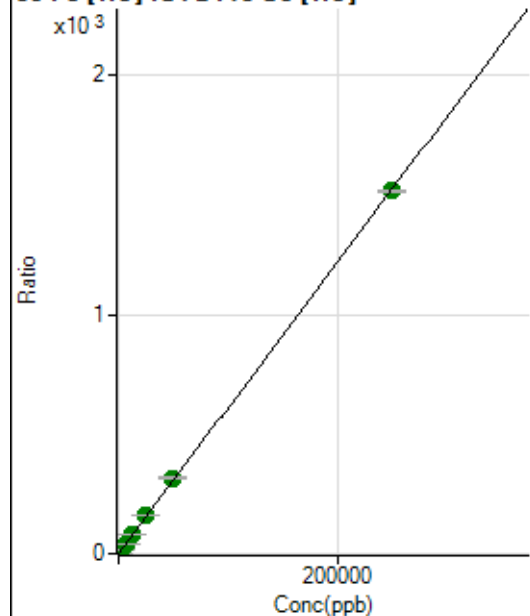
$$y = 0.0050 * x + 9.1034E-004$$

$$R = 0.9999$$

$$DL = 0.01319$$

Weight: <None>

Min Conc: 0

⁵⁶Fe [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	24644.55	0.0263	P	1.4
2	☐	50.000	54.013	336173.80	0.3550	P	0.9
3	☐	2500.000	2686.821	15632269.91	16.3788	A	0.7
4	☐	6250.000	6670.455	37794511.03	40.6241	A	1.0
5	☐	12500.000	13478.503	75988630.40	82.0593	A	0.7
6	☐	25000.000	26453.253	150622392.26	161.0264	A	0.9
7	☐	50000.000	51977.248	300471958.57	316.3709	A	1.0
8	☐	250000.00	249397.92	1481491707.1	1517.915	A	0.9

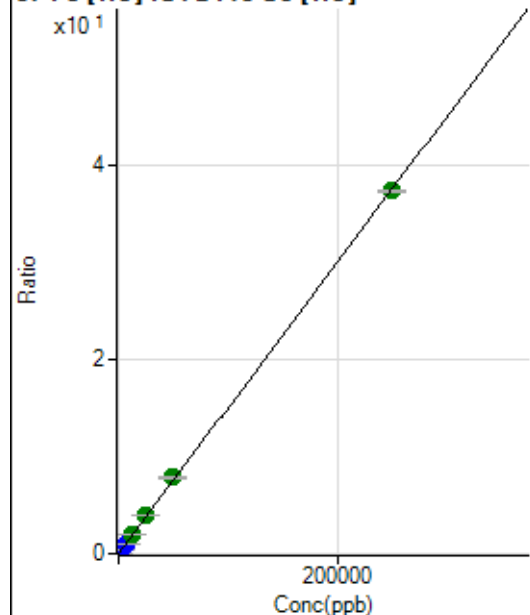
$$y = 0.0061 * x + 0.0263$$

$$R = 1.0000$$

$$DL = 0.1779$$

Weight: <None>

Min Conc: 0

57 Fe [He] ISTD:45 Sc [He]

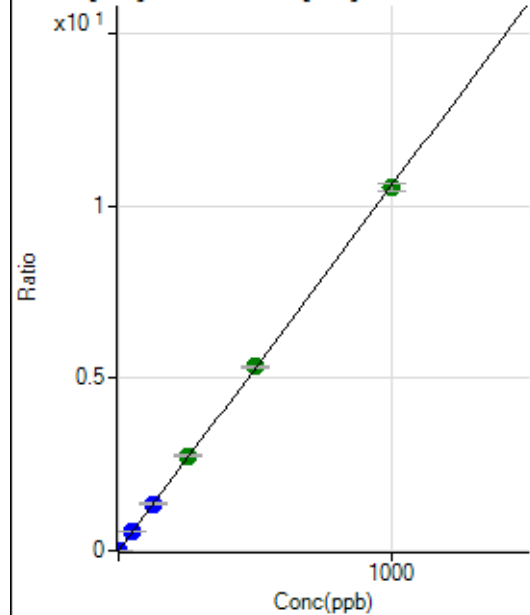
$$y = 1.5005E-004 * x + 0.0011$$

$$R = 0.9999$$

$$DL = 1.139$$

Weight: <None>

Min Conc: 0

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

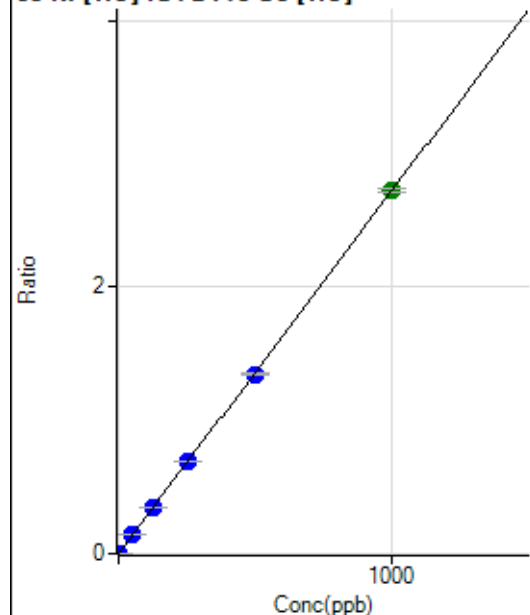
$$y = 0.0106 * x + 2.6878E-004$$

$$R = 0.9999$$

$$DL = 0.01875$$

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	538.90	0.0006	P	8.9
2	☐	1.000	1.069	3294.84	0.0035	P	2.1
3	☐	50.000	51.927	135201.52	0.1417	P	0.2
4	☐	125.000	128.314	324871.16	0.3492	P	1.7
5	☐	250.000	253.653	638720.51	0.6898	P	0.9
6	☐	500.000	495.221	1259137.49	1.3461	P	0.7
7	☐	1000.000	1000.966	2583462.53	2.7202	A	1.1
8	☐			7284.06	0.0075	P	2.0

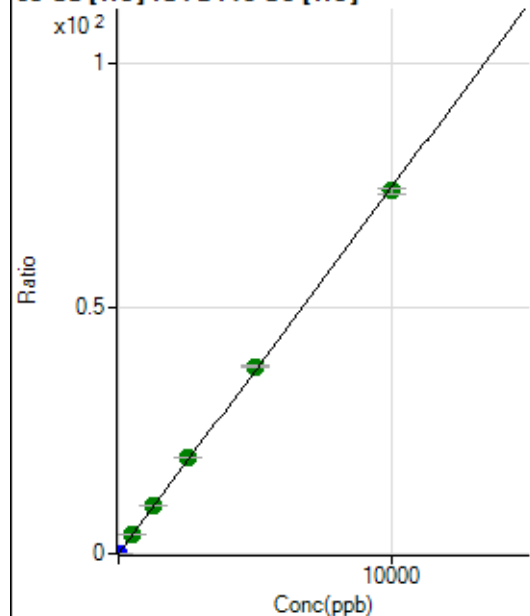
$$y = 0.0027 * x + 5.7407E-004$$

$$R = 1.0000$$

$$DL = 0.05651$$

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	1182.28	0.0013	P	2.8
2	☐	2.000	2.099	16023.10	0.0169	P	3.0
3	☐	500.000	533.776	3802863.42	3.9845	A	0.2
4	☐	1250.000	1311.224	9104237.36	9.7862	A	2.0
5	☐	2500.000	2623.329	18129213.06	19.5777	A	0.9
6	☐	5000.000	5107.203	35650670.30	38.1135	A	0.9
7	☐	10000.000	9906.224	70205433.95	73.9259	A	1.5
8	☐			16904.10	0.0173	P	3.8

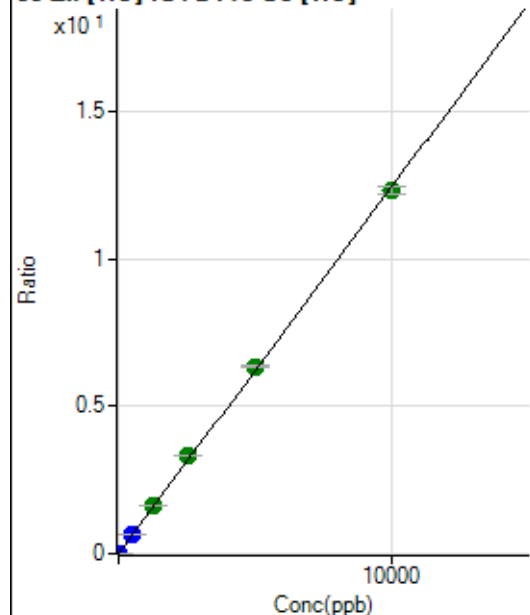
$$y = 0.0075 * x + 0.0013$$

$$R = 0.9998$$

$$DL = 0.01404$$

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	1456.75	0.0016	P	2.6
2	☐	2.000	2.373	4261.76	0.0045	P	2.6
3	☐	500.000	524.624	623741.56	0.6535	P	0.6
4	☐	1250.000	1316.355	1523374.91	1.6375	A	2.1
5	☐	2500.000	2665.484	3068964.15	3.3141	A	1.0
6	☐	5000.000	5101.426	5931445.95	6.3414	A	1.4
7	☐	10000.000	9898.390	11682989.82	12.3028	A	2.0
8	☐			10429.27	0.0107	P	0.5

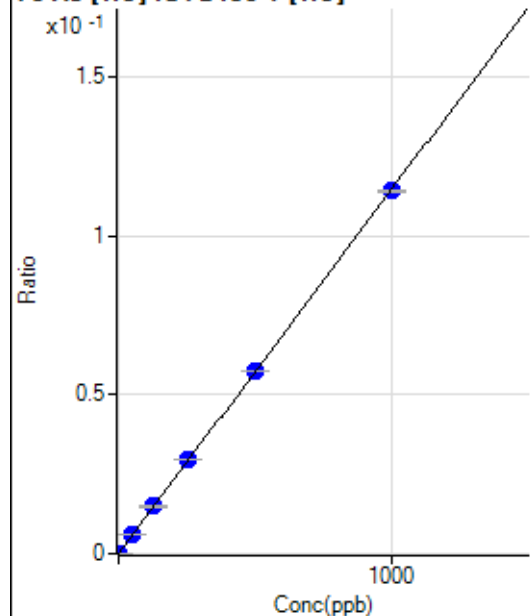
$$y = 0.0012 * x + 0.0016$$

$$R = 0.9998$$

$$DL = 0.09916$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6.17	0.0000	P	62.3
2	☐	1.000	1.058	748.79	0.0001	P	2.0
3	☐	50.000	51.463	37166.12	0.0059	P	1.2
4	☐	125.000	130.152	90868.47	0.0149	P	1.9
5	☐	250.000	258.213	181340.62	0.0296	P	0.8
6	☐	500.000	501.850	361068.70	0.0574	P	0.5
7	☐	1000.000	996.304	723177.96	0.1140	P	0.8
8	☐			551.25	0.0001	P	10.2

$$y = 1.1445E-004 * x + 1.0110E-006$$

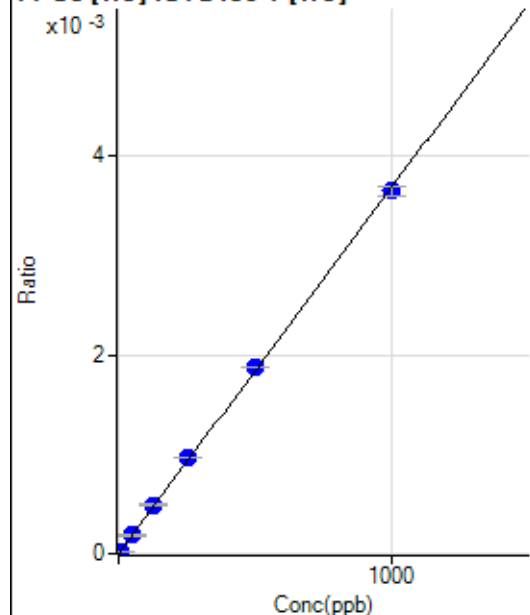
$$R = 1.0000$$

$$DL = 0.01652$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.559	125.56	0.0000	P	8.3
3	☐	50.000	51.850	1203.40	0.0002	P	8.7
4	☐	125.000	133.215	2989.23	0.0005	P	6.0
5	☐	250.000	262.998	5939.03	0.0010	P	0.8
6	☐	500.000	509.407	11784.79	0.0019	P	1.0
7	☐	1000.000	990.925	23125.96	0.0036	P	2.7
8	☐			8.89	0.0000	P	21.4

$$y = 3.6804\text{E-}006 * x + 0.0000\text{E}+000$$

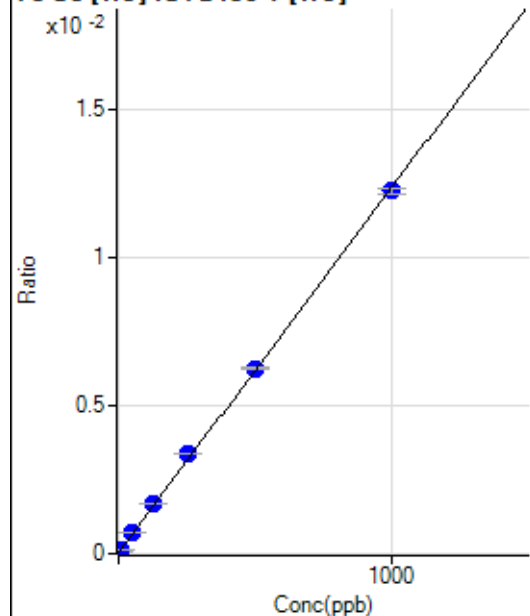
$$R = 0.9998$$

$$DL = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	243.83	0.0000	P	10.0
2	☐	5.000	5.243	640.76	0.0001	P	6.5
3	☐	50.000	54.610	4495.15	0.0007	P	1.7
4	☐	125.000	132.426	10192.43	0.0017	P	1.4
5	☐	250.000	269.126	20584.09	0.0034	P	0.5
6	☐	500.000	504.556	39315.11	0.0063	P	0.9
7	☐	1000.000	991.780	77717.29	0.0123	P	1.5
8	☐			300.00	0.0000	P	4.4

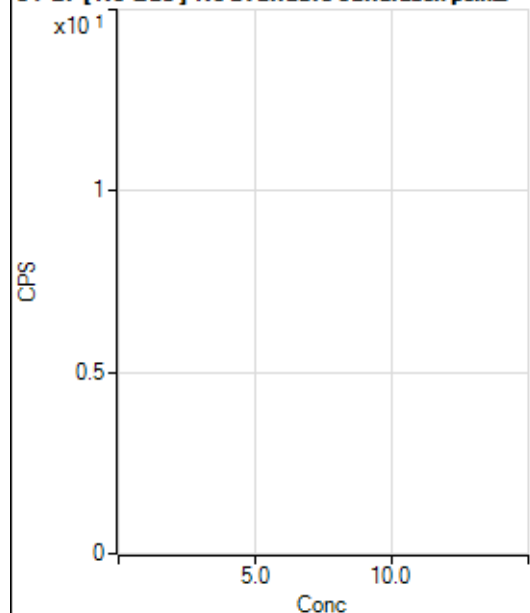
$$y = 1.2316\text{E-}005 * x + 3.9946\text{E-}005$$

$$R = 0.9998$$

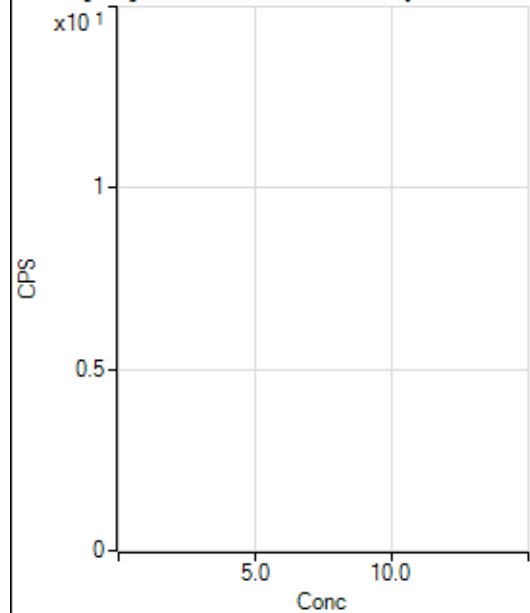
$$DL = 0.9776$$

Weight: <None>

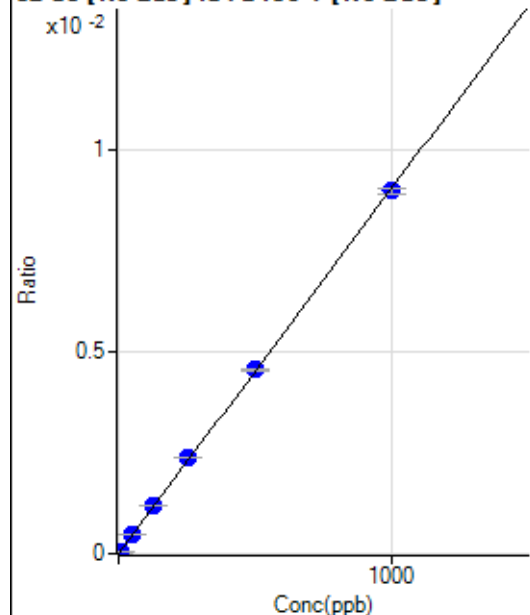
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11916.17		P	4.1
2	☐			11896.80		P	3.8
3	☐			11743.85		P	3.6
4	☐			11240.69		P	1.8
5	☐			11435.29		P	4.0
6	☐			11863.36		P	0.3
7	☐			12480.63		P	2.5
8	☐			12789.19		P	3.3

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			80.08		P	NaN
2	☐			33.37		P	45.8
3	☐			46.71		P	24.7
4	☐			83.42		P	6.9
5	☐			63.40		P	50.8
6	☐			100.10		P	45.8
7	☐			73.41		P	68.6
8	☐			140.14		P	25.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	-41.24	0.0000	P	-54.
2	☐	5.000	5.291	1124.12	0.0000	P	6.2
3	☐	50.000	54.566	12257.61	0.0005	P	0.9
4	☐	125.000	132.374	29533.64	0.0012	P	1.5
5	☐	250.000	262.783	58532.03	0.0024	P	0.8
6	☐	500.000	503.976	112222.74	0.0045	P	1.0
7	☐	1000.000	993.665	225114.92	0.0090	P	1.6
8	☐			174.90	0.0000	P	67.6

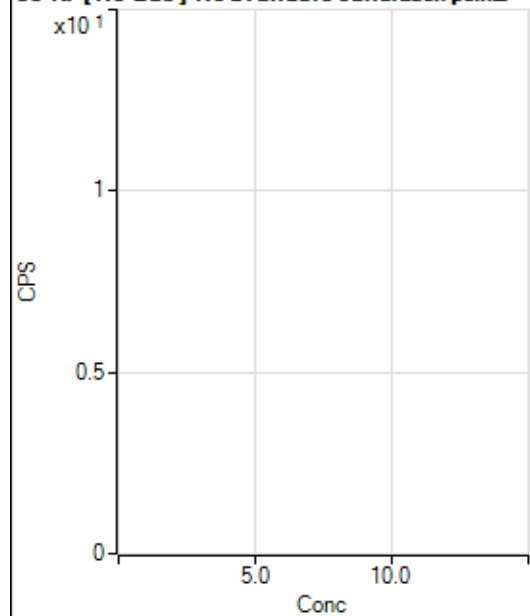
$$y = 9.0299E-006 * x - 1.6846E-006$$

$$R = 0.9999$$

$$DL = 0.3046$$

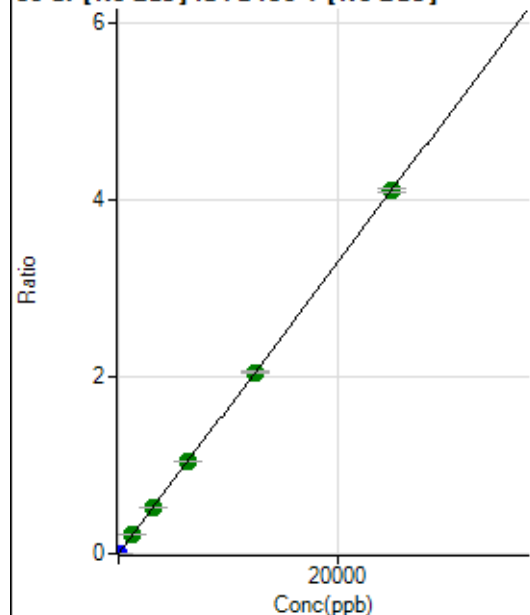
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			540.02		P	7.3
2	☐			575.58		P	6.7
3	☐			561.13		P	4.8
4	☐			503.35		P	4.3
5	☐			543.35		P	17.1
6	☐			530.02		P	4.5
7	☐			565.57		P	5.3
8	☐			600.02		P	16.4

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	900.05	0.0000	P	13.9
2	☐	1.000	0.961	4739.77	0.0002	P	5.7
3	☐	1250.000	1265.884	5183538.27	0.2077	A	1.1
4	☐	3125.000	3174.685	12884300.55	0.5207	A	0.7
5	☐	6250.000	6376.950	25820416.38	1.0459	A	0.9
6	☐	12500.000	12472.166	50467374.74	2.0456	A	0.7
7	☐	25000.000	24975.175	102797857.16	4.0963	A	1.1
8	☐			50911.54	0.0021	P	7.5

$$y = 1.6401E-004 * x + 3.6845E-005$$

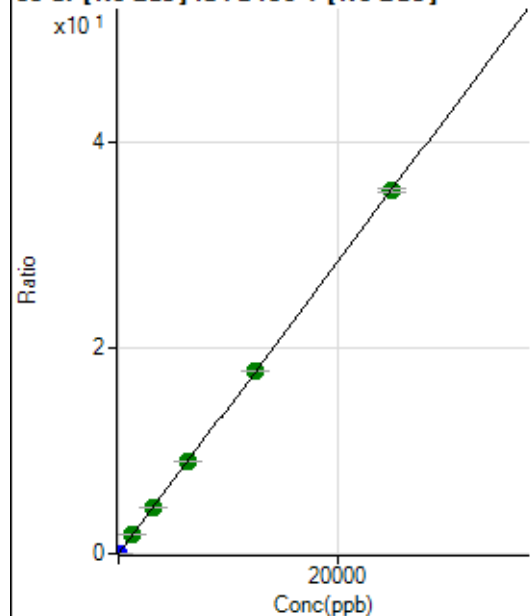
$$R = 1.0000$$

$$DL = 0.09362$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	727.82	0.0000	P	4.3
2	☐	1.000	1.015	35713.55	0.0015	P	1.1
3	☐	1250.000	1277.878	45119707.26	1.8075	A	0.7
4	☐	3125.000	3174.090	111081889.29	4.4894	A	1.3
5	☐	6250.000	6374.491	222576520.25	9.0161	A	0.8
6	☐	12500.000	12558.484	438218051.46	17.7627	A	0.5
7	☐	25000.000	24932.105	884920836.45	35.2639	A	1.1
8	☐			433743.32	0.0180	P	6.3

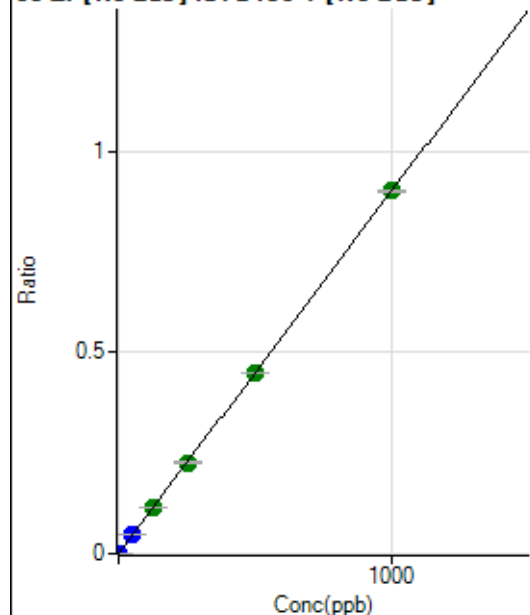
$$y = 0.0014 * x + 2.9799E-005$$

$$R = 1.0000$$

$$DL = 0.002743$$

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	1455.67	0.0001	P	5.9
2	☐	1.000	0.978	22949.18	0.0009	P	2.8
3	☐	50.000	50.937	1147815.00	0.0460	P	0.4
4	☐	125.000	126.014	2812420.20	0.1137	A	1.2
5	☐	250.000	251.015	5588146.96	0.2264	A	1.2
6	☐	500.000	497.566	11068740.78	0.4486	A	0.6
7	☐	1000.000	1000.790	22645122.21	0.9023	A	0.4
8	☐			16441.56	0.0007	P	1.4

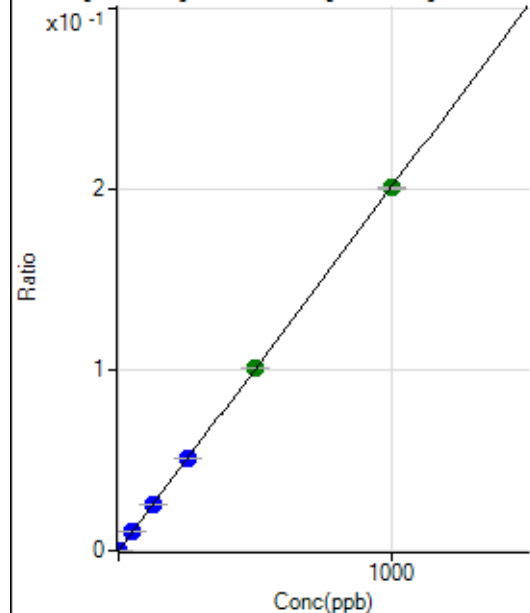
$$y = 9.0154\text{E-}004 * x + 5.9641\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.01176$$

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	263.90	0.0000	P	16.9
2	☐	1.000	0.998	5151.03	0.0002	P	1.6
3	☐	50.000	51.225	257043.82	0.0103	P	0.5
4	☐	125.000	125.298	622808.80	0.0252	P	0.9
5	☐	250.000	252.505	1251994.85	0.0507	P	0.8
6	☐	500.000	503.022	2492609.71	0.1010	A	0.7
7	☐	1000.000	997.765	5028771.42	0.2004	A	0.6
8	☐			3767.30	0.0002	P	7.0

$$y = 2.0081\text{E-}004 * x + 1.0822\text{E-}005$$

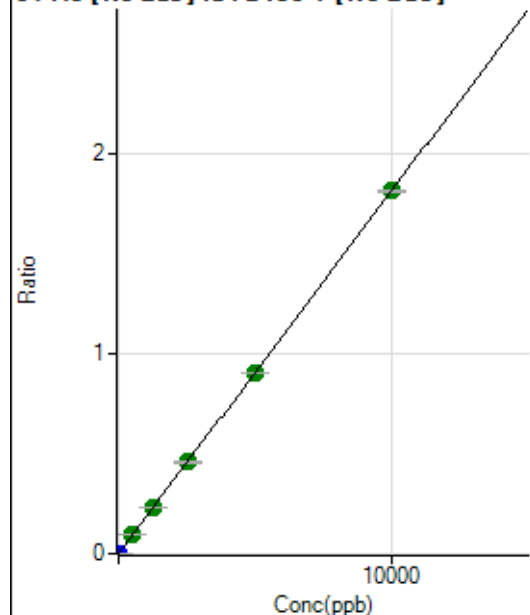
$$R = 1.0000$$

$$DL = 0.02732$$

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	461.13	0.0000	P	8.4
2	☐	5.000	5.819	26165.61	0.0011	P	2.9
3	☐	500.000	512.488	2318539.42	0.0929	A	1.0
4	☐	1250.000	1255.305	5628473.26	0.2275	A	1.5
5	☐	2500.000	2521.537	11279502.16	0.4569	A	0.6
6	☐	5000.000	4984.702	22287662.31	0.9032	A	0.9
7	☐	10000.000	10000.977	45481978.79	1.8122	A	0.6
8	☐			19495.84	0.0008	P	5.0

$$y = 1.8120E-004 * x + 1.8890E-005$$

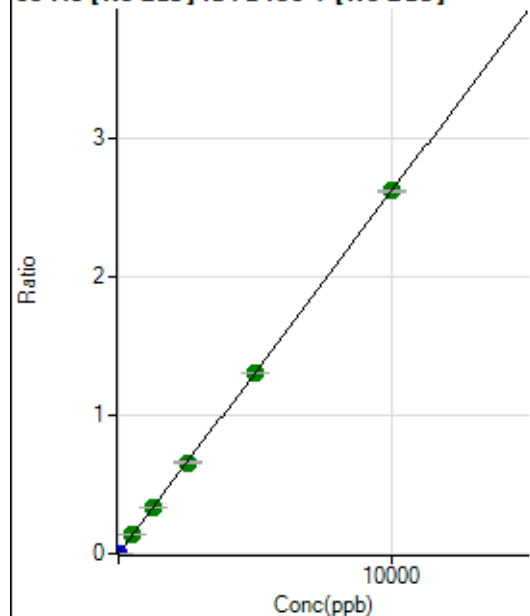
$$R = 1.0000$$

$$DL = 0.02617$$

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	38.89	0.0000	P	49.1
2	☐	5.000	5.117	32748.41	0.0013	P	1.5
3	☐	500.000	512.522	3354975.57	0.1344	A	0.2
4	☐	1250.000	1256.898	8154775.53	0.3296	A	1.3
5	☐	2500.000	2518.897	16305758.00	0.6605	A	1.0
6	☐	5000.000	4971.957	32166619.12	1.3037	A	0.2
7	☐	10000.000	10007.809	65861963.28	2.6242	A	0.3
8	☐			23524.35	0.0010	P	8.0

$$y = 2.6222E-004 * x + 1.5896E-006$$

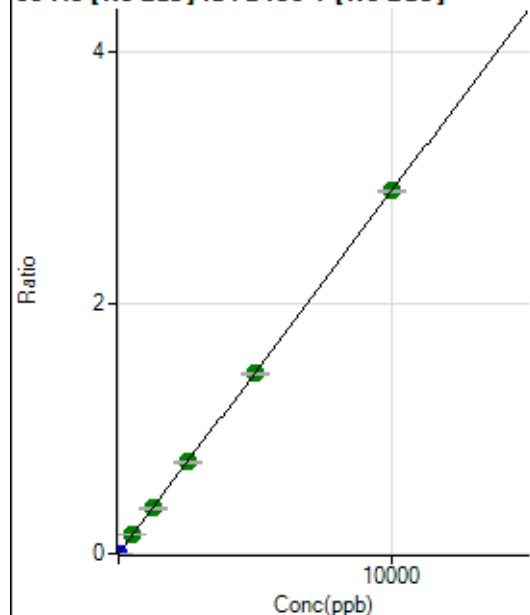
$$R = 1.0000$$

$$DL = 0.008936$$

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	300.01	0.0000	P	20.3
2	☐	5.000	5.056	35933.78	0.0015	P	2.0
3	☐	500.000	508.800	3671576.60	0.1471	A	0.9
4	☐	1250.000	1249.772	8938808.45	0.3613	A	1.1
5	☐	2500.000	2519.558	17980453.36	0.7283	A	1.4
6	☐	5000.000	4976.891	35490602.53	1.4386	A	0.7
7	☐	10000.000	10006.253	72587273.84	2.8924	A	0.8
8	☐			34031.68	0.0014	P	7.7

$$y = 2.8906\text{E-}004 * x + 1.2267\text{E-}005$$

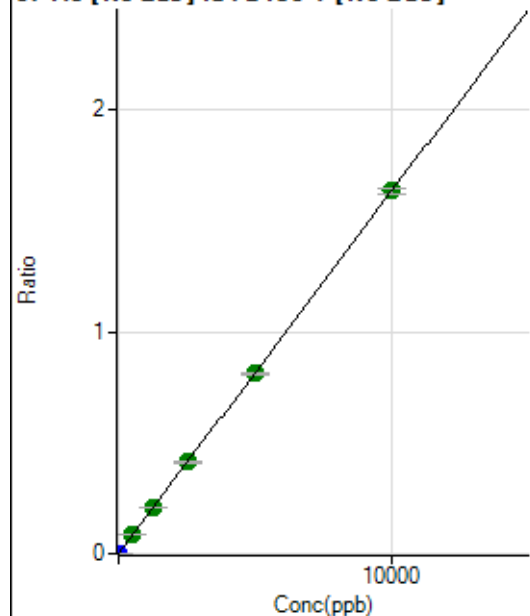
$$R = 1.0000$$

$$DL = 0.02584$$

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	41.67	0.0000	P	60.5
2	☐	5.000	5.150	20545.51	0.0008	P	2.1
3	☐	500.000	512.390	2088464.37	0.0837	A	0.6
4	☐	1250.000	1256.038	5074343.95	0.2051	A	0.8
5	☐	2500.000	2524.111	10173978.01	0.4121	A	0.9
6	☐	5000.000	4961.667	19985444.89	0.8101	A	1.1
7	☐	10000.000	10011.764	41020159.60	1.6347	A	1.3
8	☐			14128.20	0.0006	P	10.6

$$y = 1.6327\text{E-}004 * x + 1.7070\text{E-}006$$

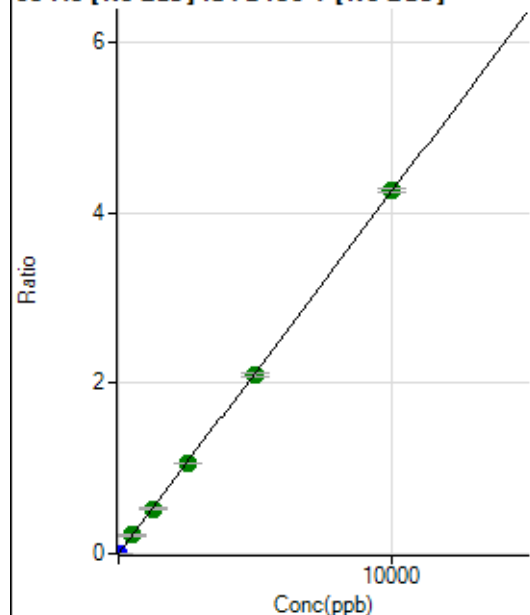
$$R = 1.0000$$

$$DL = 0.01897$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	119.45	0.0000	P	11.1
2	☐	5.000	5.045	52391.67	0.0021	P	1.8
3	☐	500.000	507.350	5381528.77	0.2156	A	1.1
4	☐	1250.000	1243.953	13078958.45	0.5286	A	0.9
5	☐	2500.000	2509.745	26327869.86	1.0665	A	0.9
6	☐	5000.000	4945.863	51842179.98	2.1017	A	1.5
7	☐	10000.000	10025.021	106902448.92	4.2600	A	1.0
8	☐			37372.59	0.0016	P	9.0

$$y = 4.2493E-004 * x + 4.8938E-006$$

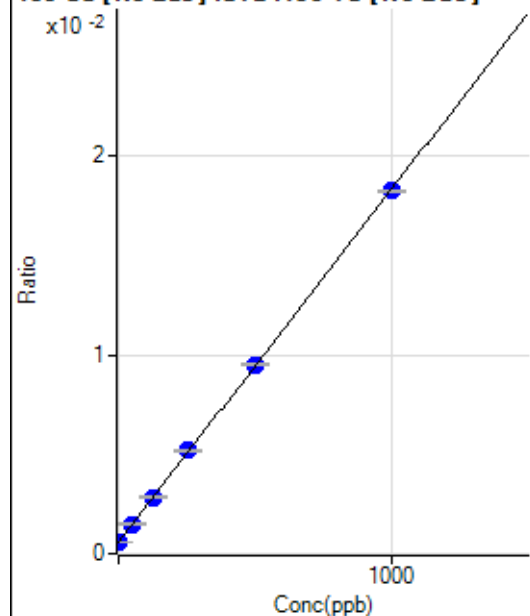
$$R = 1.0000$$

$$DL = 0.003821$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	11082.34	0.0006	P	2.1
2	☐	1.000	0.440	11137.88	0.0006	P	3.6
3	☐	50.000	51.509	29182.65	0.0015	P	3.5
4	☐	125.000	127.996	56379.82	0.0029	P	2.0
5	☐	250.000	259.687	102668.62	0.0052	P	1.6
6	☐	500.000	503.326	186416.13	0.0095	P	1.6
7	☐	1000.000	995.466	366893.18	0.0183	P	0.6
8	☐			11032.27	0.0006	P	5.3

$$y = 1.7758E-005 * x + 5.7877E-004$$

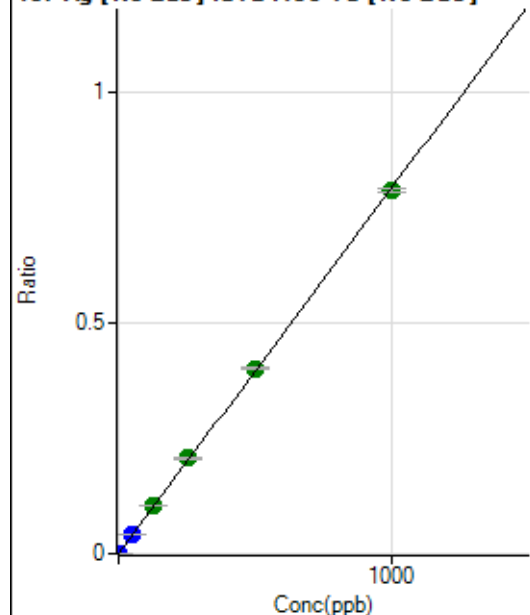
$$R = 0.9999$$

$$DL = 2.057$$

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	116.67	0.0000	P	25.6
2	☐	1.000	1.002	15197.32	0.0008	P	7.8
3	☐	50.000	53.104	822323.92	0.0421	P	1.5
4	☐	125.000	131.284	2056835.35	0.1040	A	1.5
5	☐	250.000	261.280	4095472.40	0.2070	A	2.3
6	☐	500.000	507.013	7869624.22	0.4017	A	0.7
7	☐	1000.000	992.733	15807791.15	0.7866	A	0.9
8	☐			7682.82	0.0004	P	6.9

$$y = 7.9236E-004 * x + 6.0911E-006$$

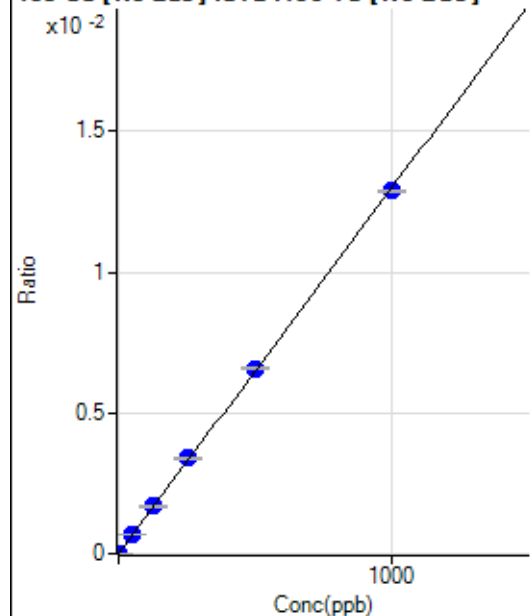
$$R = 0.9999$$

$$DL = 0.005912$$

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	54.17	0.0000	P	23.7
2	☐	1.000	0.933	283.34	0.0000	P	11.5
3	☐	50.000	54.034	13755.24	0.0007	P	0.8
4	☐	125.000	128.769	33083.61	0.0017	P	3.0
5	☐	250.000	262.470	67414.29	0.0034	P	1.6
6	☐	500.000	506.723	128838.32	0.0066	P	0.5
7	☐	1000.000	992.848	258931.53	0.0129	P	0.4
8	☐			183.34	0.0000	P	17.4

$$y = 1.2974E-005 * x + 2.8315E-006$$

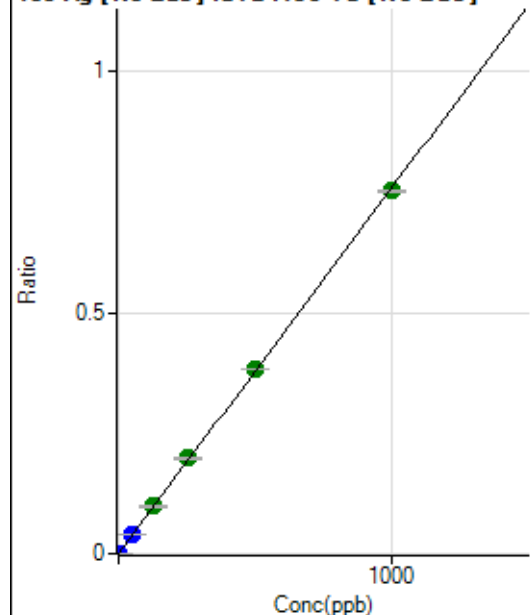
$$R = 0.9999$$

$$DL = 0.1549$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	33.33	0.0000	P	24.4
2	☐	1.000	1.007	14521.56	0.0008	P	8.6
3	☐	50.000	53.474	791789.48	0.0405	P	0.8
4	☐	125.000	129.982	1947112.09	0.0985	A	2.0
5	☐	250.000	260.633	3906096.27	0.1975	A	1.2
6	☐	500.000	507.168	7527684.02	0.3843	A	0.1
7	☐	1000.000	992.961	15118558.50	0.7523	A	0.8
8	☐			7107.62	0.0004	P	2.3

$$y = 7.5766E-004 * x + 1.7390E-006$$

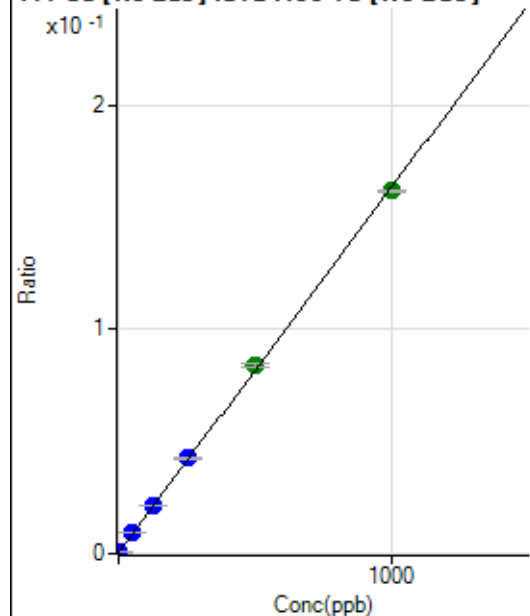
$$R = 0.9999$$

$$DL = 0.001682$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	7744.71	0.0004	P	1.8
2	☐	1.000	1.053	10940.28	0.0006	P	2.9
3	☐	50.000	53.711	179009.83	0.0092	P	1.7
4	☐	125.000	129.934	426781.77	0.0216	P	2.0
5	☐	250.000	259.522	844883.93	0.0427	P	1.8
6	☐	500.000	512.889	1645652.42	0.0840	A	1.8
7	☐	1000.000	990.373	3252896.88	0.1619	A	0.5
8	☐			8635.96	0.0005	P	4.0

$$y = 1.6302E-004 * x + 4.0446E-004$$

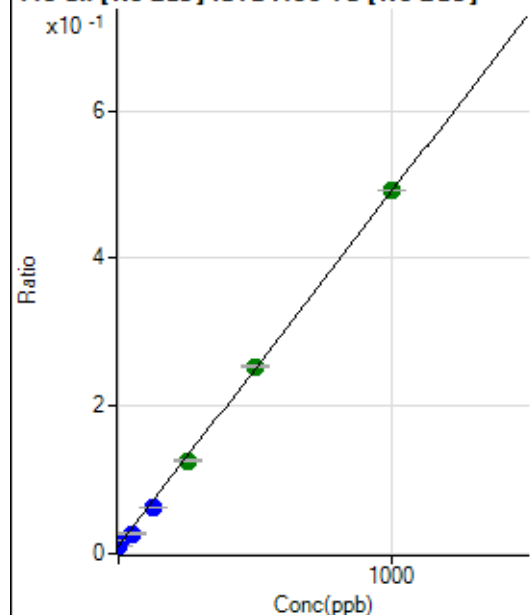
$$R = 0.9998$$

$$DL = 0.1354$$

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	207949.80	0.0109	P	4.6
2	☐	5.000	13.109	325578.00	0.0171	P	0.6
3	☐	50.000	33.230	523751.24	0.0268	P	4.4
4	☐	125.000	108.341	1241766.57	0.0628	P	2.8
5	☐	250.000	239.993	2491111.34	0.1259	A	1.4
6	☐	500.000	506.779	4972673.46	0.2539	A	1.9
7	☐	1000.000	1001.993	9874384.77	0.4913	A	0.1
8	☐			12161.08	0.0006	P	8.8

$$y = 4.7952\text{E-}004 * x + 0.0109$$

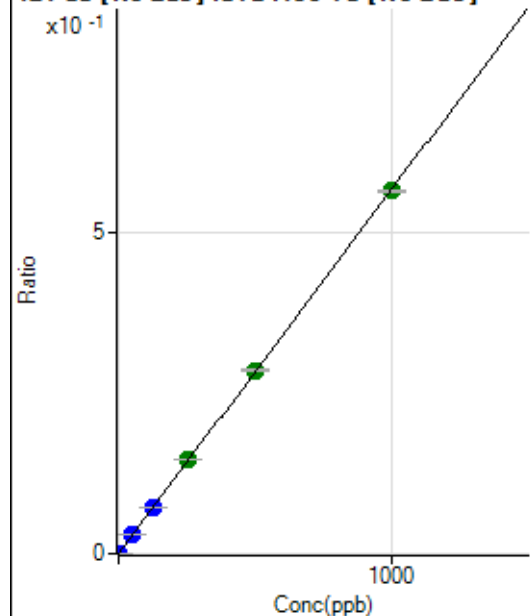
$$R = 0.9996$$

$$DL = 3.151$$

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	69.45	0.0000	P	13.9
2	☐	2.000	2.007	21708.53	0.0011	P	2.2
3	☐	50.000	51.706	573853.73	0.0294	P	0.3
4	☐	125.000	125.931	1413823.86	0.0715	P	2.4
5	☐	250.000	257.254	2889619.77	0.1461	A	0.8
6	☐	500.000	503.267	5598398.35	0.2858	A	0.8
7	☐	1000.000	996.352	11370760.85	0.5658	A	0.8
8	☐			13331.54	0.0007	P	5.7

$$y = 5.6786\text{E-}004 * x + 3.6267\text{E-}006$$

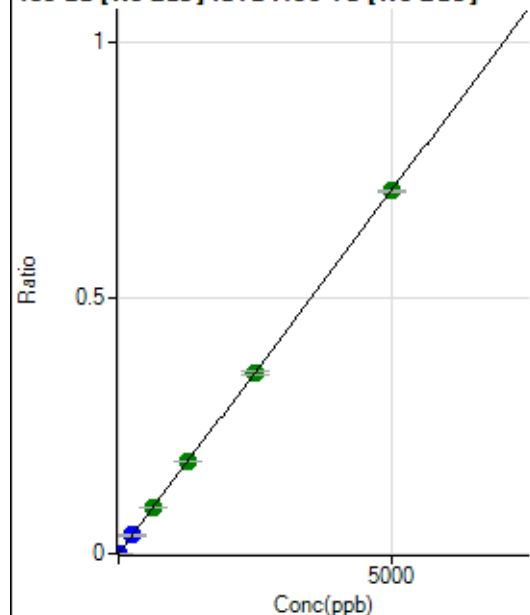
$$R = 1.0000$$

$$DL = 0.002658$$

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	88.89	0.0000	P	20.0
2	☐	10.000	9.885	26720.15	0.0014	P	1.4
3	☐	250.000	251.914	698513.51	0.0357	P	1.0
4	☐	625.000	635.246	1781768.72	0.0901	A	3.2
5	☐	1250.000	1277.752	3585961.48	0.1813	A	0.5
6	☐	2500.000	2492.387	6927220.38	0.3536	A	1.6
7	☐	5000.000	4995.492	14244491.38	0.7088	A	0.6
8	☐			8766.83	0.0005	P	5.3

$$y = 1.4188\text{E-}004 * x + 4.6449\text{E-}006$$

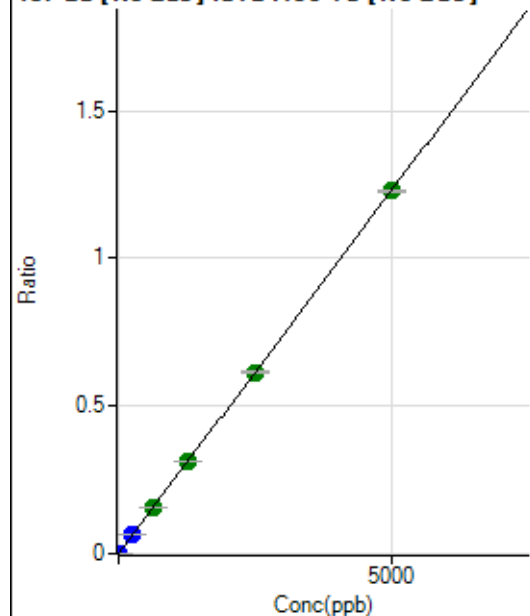
$$R = 1.0000$$

$$DL = 0.01966$$

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	144.45	0.0000	P	12.2
2	☐	10.000	10.064	47126.66	0.0025	P	0.9
3	☐	250.000	254.681	1223755.09	0.0626	P	0.3
4	☐	625.000	629.505	3060034.77	0.1548	A	1.9
5	☐	1250.000	1271.028	6181154.52	0.3125	A	1.9
6	☐	2500.000	2497.098	12026877.18	0.6139	A	1.2
7	☐	5000.000	4995.397	24682392.22	1.2282	A	0.2
8	☐			14897.13	0.0008	P	4.3

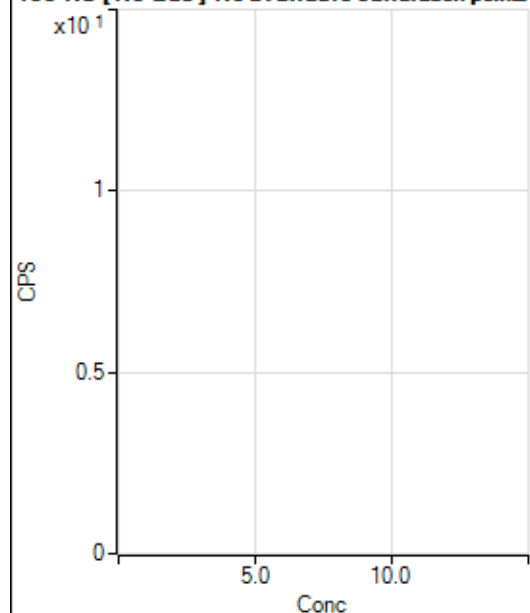
$$y = 2.4585\text{E-}004 * x + 7.5444\text{E-}006$$

$$R = 1.0000$$

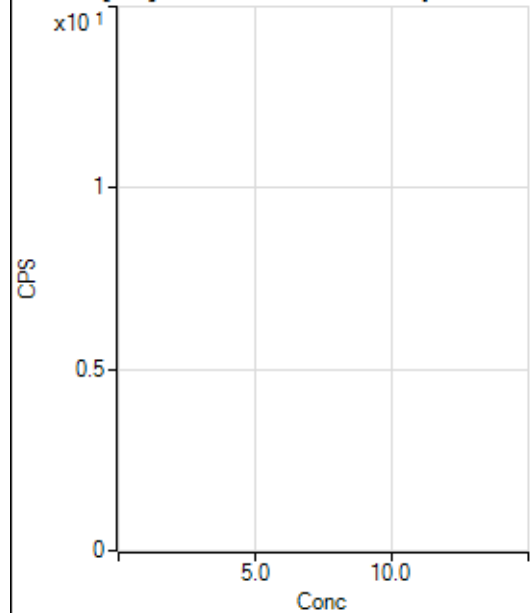
$$DL = 0.01123$$

Weight: <None>

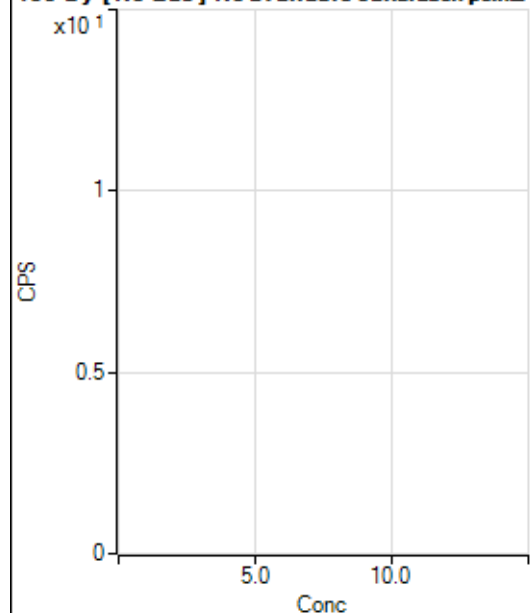
Min Conc: 0

150 Nd [No Gas] No available calibration points

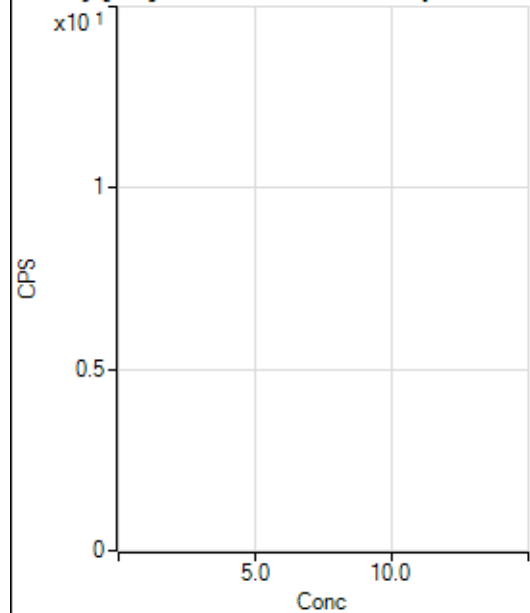
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	114.
2	☐			15.56		P	65.5
3	☐			57.78		P	24.0
4	☐			146.67		P	19.8
5	☐			280.01		P	10.9
6	☐			491.13		P	19.9
7	☐			1068.96		P	5.3
8	☐			115.56		P	21.8

150 Nd [He] No available calibration points

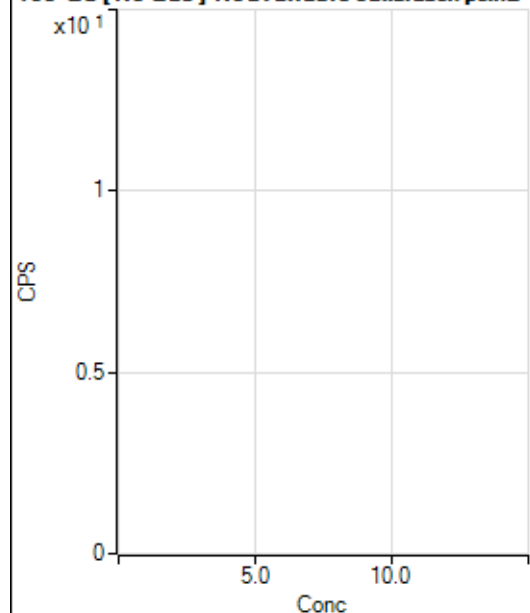
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			2.22		P	86.6
3	☐			14.44		P	35.3
4	☐			43.33		P	40.7
5	☐			76.67		P	17.4
6	☐			131.11		P	21.3
7	☐			211.12		P	16.4
8	☐			58.89		P	38.5

156 Dy [No Gas] No available calibration points

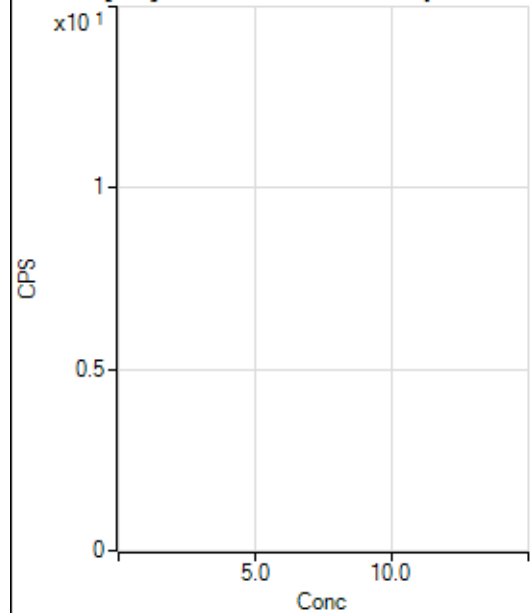
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.89		P	91.6
2	☐			30.56		P	41.7
3	☐			19.45		P	24.7
4	☐			80.56		P	11.9
5	☐			138.89		P	40.8
6	☐			300.01		P	17.3
7	☐			608.36		P	4.7
8	☐			1539.02		P	1.4

156 Dy [He] No available calibration points

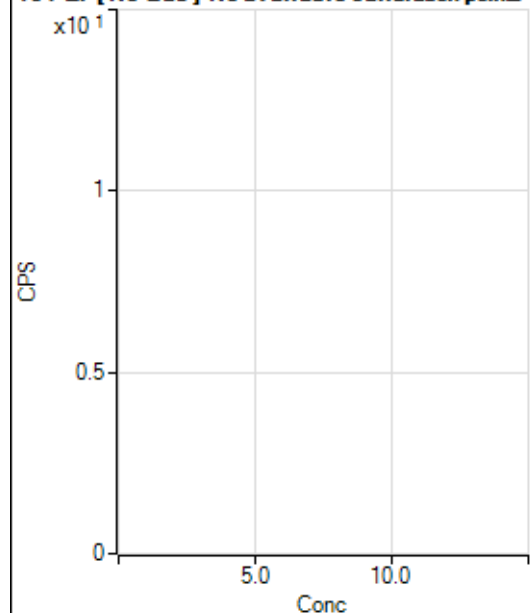
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	86.6
2	☐			10.00		P	0.0
3	☐			56.67		P	41.2
4	☐			111.11		P	34.1
5	☐			205.56		P	15.8
6	☐			385.56		P	15.1
7	☐			774.47		P	5.4
8	☐			973.38		P	2.4

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

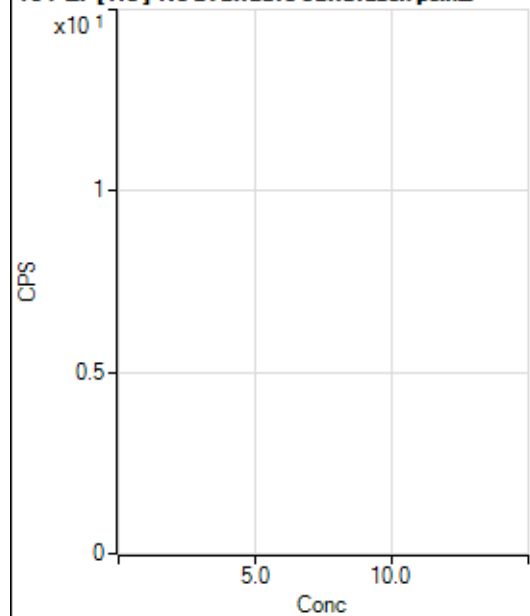
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			227.79		P	2.1
2	☐			200.01		P	18.2
3	☐			244.45		P	22.7
4	☐			275.01		P	15.7
5	☐			263.90		P	12.8
6	☐			322.24		P	6.0
7	☐			438.91		P	4.8
8	☐			1066.74		P	9.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			667.80		P	3.2
2	☐			691.14		P	19.6
3	☐			757.81		P	8.8
4	☐			724.47		P	4.0
5	☐			713.36		P	0.9
6	☐			792.26		P	6.4
7	☐			958.94		P	6.9
8	☐			1374.53		P	4.9

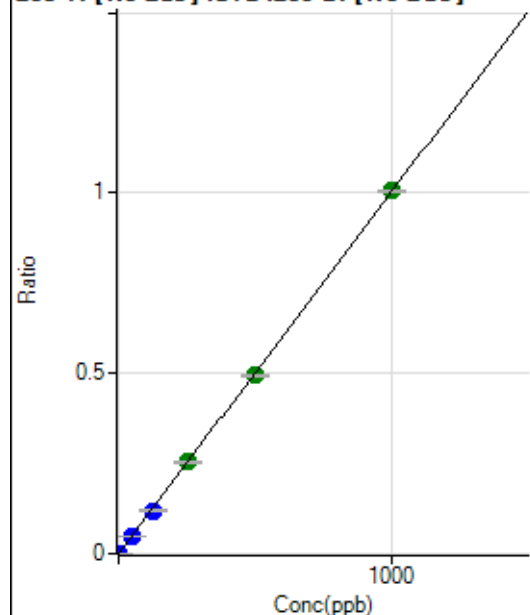
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			113.89		P	21.1
2	☐			161.12		P	13.0
3	☐			155.56		P	37.6
4	☐			144.45		P	21.8
5	☐			194.45		P	25.1
6	☐			200.01		P	29.2
7	☐			341.68		P	8.5
8	☐			175.01		P	34.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			78.89		P	13.6
2	☐			82.22		P	12.4
3	☐			108.89		P	24.9
4	☐			107.78		P	22.4
5	☐			104.44		P	4.9
6	☐			107.78		P	3.6
7	☐			205.56		P	12.6
8	☐			123.34		P	19.5

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	263.90	0.0000	P	11.3
2	☐	1.000	0.897	11886.02	0.0009	P	1.9
3	☐	50.000	47.304	635413.38	0.0475	P	2.1
4	☐	125.000	118.370	1580848.46	0.1187	P	3.2
5	☐	250.000	253.062	3394312.57	0.2538	A	2.2
6	☐	500.000	493.919	6543499.02	0.4954	A	0.9
7	☐	1000.000	1003.238	13035674.77	1.0062	A	0.9
8	☐			5312.33	0.0005	P	5.5

$$y = 0.0010 * x + 2.0227E-005$$

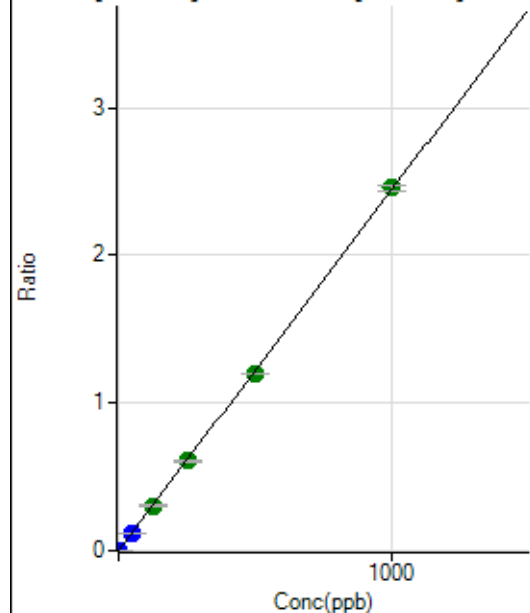
$$R = 0.9999$$

$$DL = 0.006853$$

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	533.36	0.0000	P	17.5
2	☐	1.000	0.945	30331.68	0.0023	P	1.9
3	☐	50.000	46.769	1529453.71	0.1142	P	1.5
4	☐	125.000	123.627	4019634.73	0.3019	A	2.8
5	☐	250.000	248.084	8101512.42	0.6058	A	2.0
6	☐	500.000	490.122	15808627.96	1.1968	A	0.1
7	☐	1000.000	1005.751	31812672.58	2.4558	A	1.3
8	☐			12761.88	0.0011	P	7.2

$$y = 0.0024 * x + 4.0861E-005$$

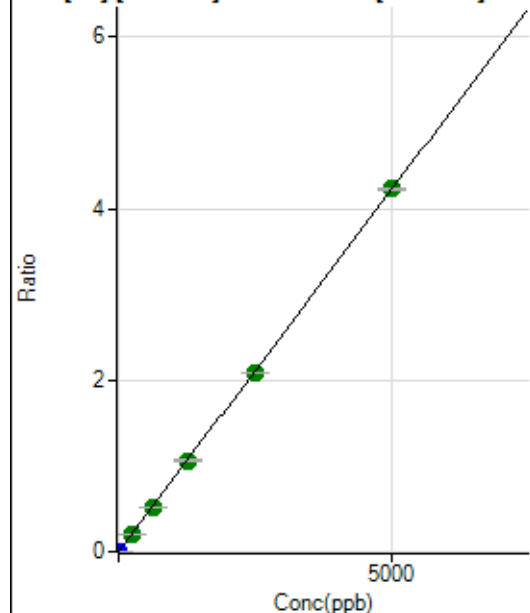
$$R = 0.9999$$

$$DL = 0.008799$$

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	807.45	0.0001	P	7.8
2	☐	1.000	0.937	11012.03	0.0009	P	2.2
3	☐	250.000	247.964	2802729.26	0.2093	A	0.8
4	☐	625.000	617.197	6936723.65	0.5209	A	2.1
5	☐	1250.000	1258.342	14203338.74	1.0620	A	1.8
6	☐	2500.000	2477.409	27618177.47	2.0909	A	0.4
7	☐	5000.000	5010.287	54780292.89	4.2285	A	0.5
8	☐			19384.51	0.0017	P	9.6

$$y = 8.4395E-004 * x + 6.1869E-005$$

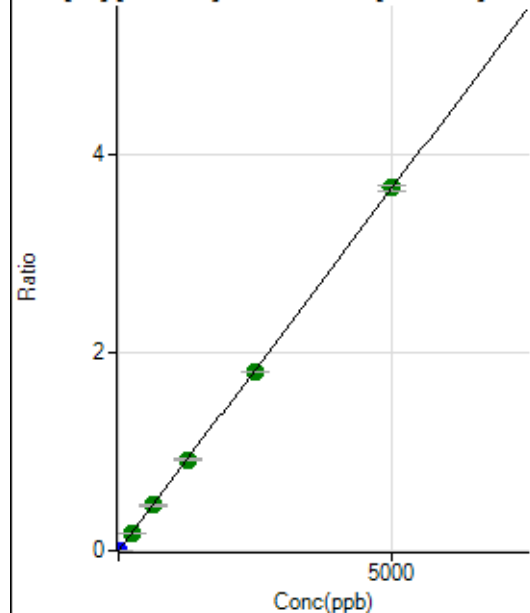
$$R = 1.0000$$

$$DL = 0.01706$$

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	600.03	0.0000	P	5.0
2	☐	1.000	0.929	9368.28	0.0007	P	1.8
3	☐	250.000	247.689	2425143.63	0.1811	A	1.0
4	☐	625.000	626.278	6097763.27	0.4579	A	2.2
5	☐	1250.000	1250.373	12226626.78	0.9142	A	2.0
6	☐	2500.000	2473.229	23885143.36	1.8083	A	0.7
7	☐	5000.000	5013.248	47481626.99	3.6653	A	1.3
8	☐			15941.21	0.0014	P	11.5

$$y = 7.3111E-004 * x + 4.5980E-005$$

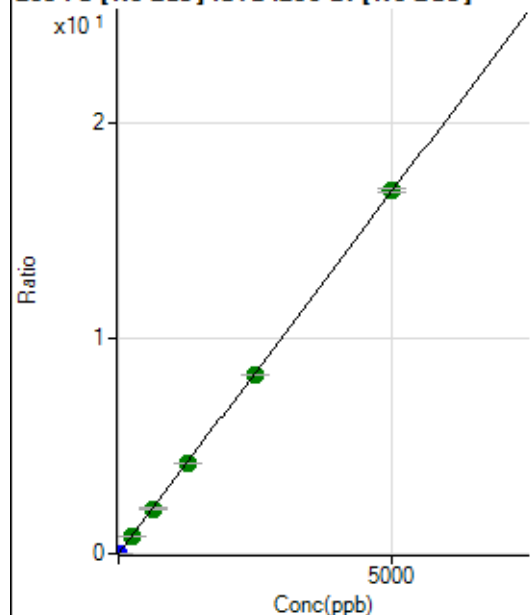
$$R = 1.0000$$

$$DL = 0.009523$$

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	3074.28	0.0002	P	4.1
2	☐	1.000	0.914	42732.46	0.0033	P	1.4
3	☐	250.000	248.628	11193300.16	0.8360	A	1.1
4	☐	625.000	622.800	27881129.50	2.0938	A	1.9
5	☐	1250.000	1253.365	56353092.58	4.2135	A	1.3
6	☐	2500.000	2468.270	109603579.07	8.2974	A	0.4
7	☐	5000.000	5015.367	218406494.70	16.8596	A	1.2
8	☐			75162.86	0.0066	P	9.3

$$y = 0.0034 * x + 2.3558E-004$$

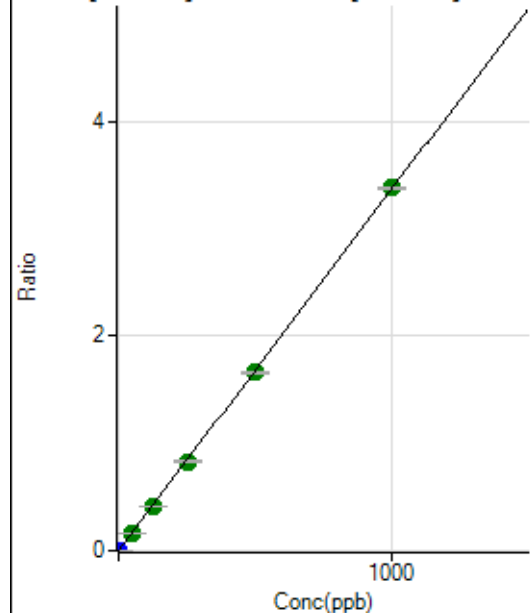
$$R = 1.0000$$

$$DL = 0.008671$$

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	8.33	0.0000	P	100.
2	☐	1.000	0.848	36889.69	0.0029	P	0.8
3	☐	50.000	48.757	2199388.40	0.1643	A	1.5
4	☐	125.000	122.699	5503952.29	0.4134	A	3.5
5	☐	250.000	247.065	11131515.44	0.8324	A	2.7
6	☐	500.000	493.889	21981691.98	1.6640	A	0.8
7	☐	1000.000	1004.139	43831310.01	3.3832	A	0.2
8	☐			9701.28	0.0009	P	15.2

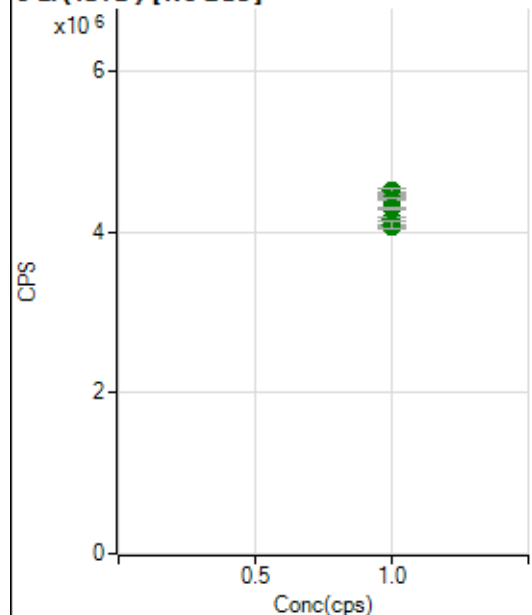
$$y = 0.0034 * x + 6.3787E-007$$

$$R = 1.0000$$

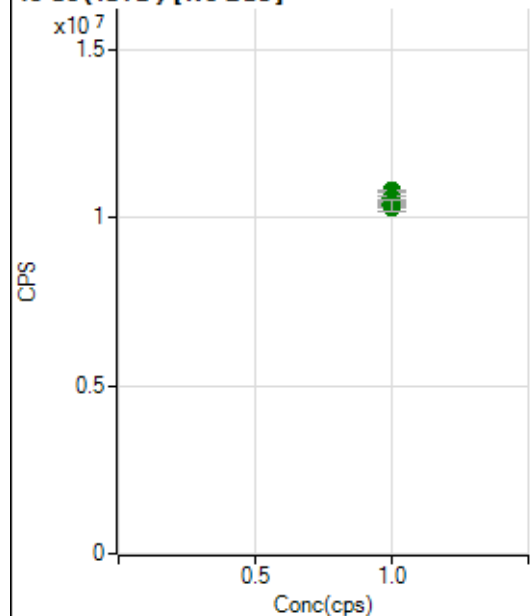
$$DL = 0.0005683$$

Weight: <None>

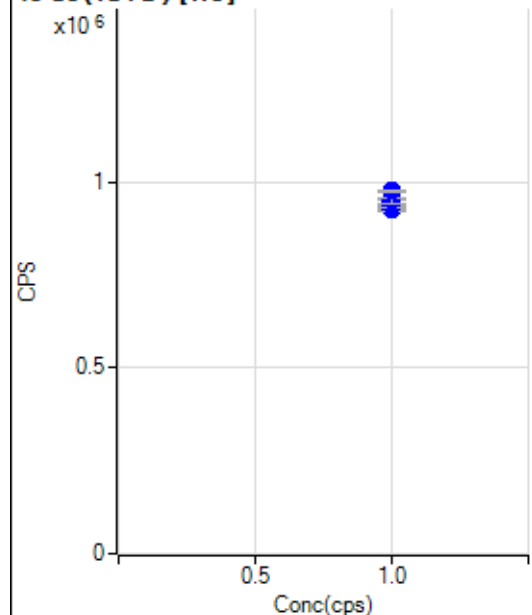
Min Conc: 0

6 Li (ISTD) [No Gas]

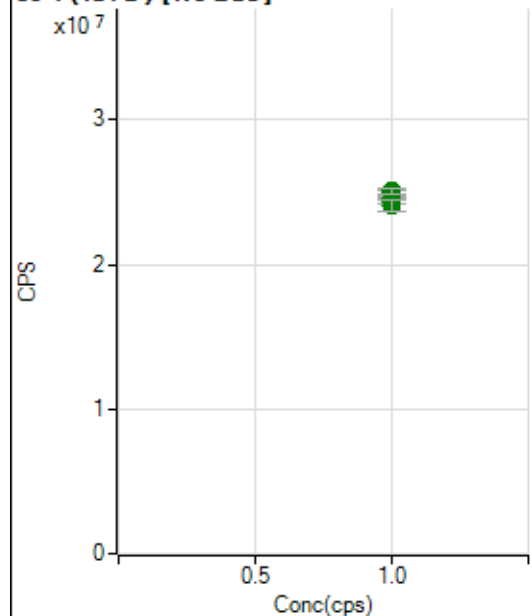
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4476998.37		A	1.2
2	☐	1.000		4461513.09		A	0.8
3	☐	1.000		4518340.14		A	1.9
4	☐	1.000		4417878.55		A	0.4
5	☐	1.000		4307702.92		A	0.6
6	☐	1.000		4171767.30		A	1.4
7	☐	1.000		4076566.26		A	0.6
8	☐	1.000		4104504.73		A	2.3

45 Sc (ISTD) [No Gas]

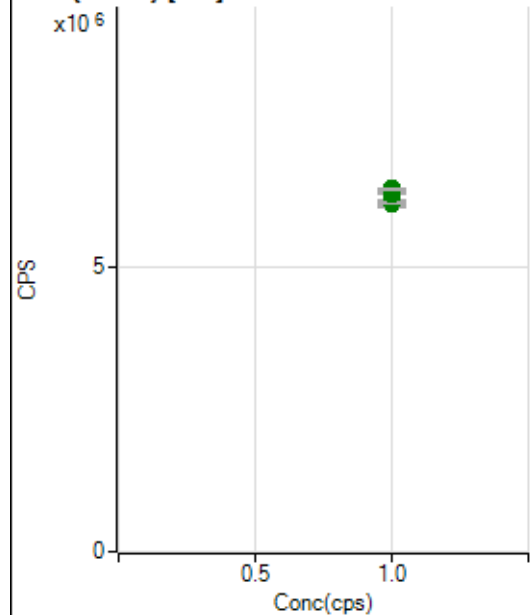
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10502175.40		A	0.4
2	☐	1.000		10528255.54		A	2.4
3	☐	1.000		10784501.58		A	0.3
4	☐	1.000		10575725.75		A	1.1
5	☐	1.000		10401980.12		A	0.8
6	☐	1.000		10313911.45		A	0.8
7	☐	1.000		10367683.18		A	1.5
8	☐	1.000		10331088.04		A	3.1

45 Sc (ISTD) [He]

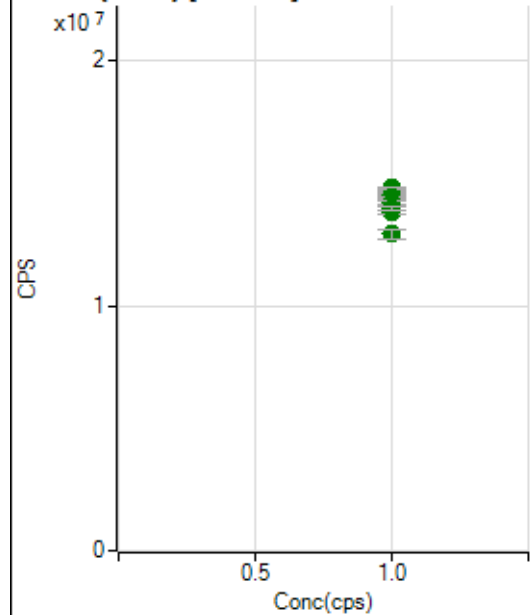
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		938605.52		P	0.3
2	☐	1.000		947005.20		P	0.7
3	☐	1.000		954409.14		P	0.3
4	☐	1.000		930409.19		P	1.1
5	☐	1.000		926044.84		P	0.6
6	☐	1.000		935423.66		P	0.8
7	☐	1.000		949827.57		P	1.7
8	☐	1.000		976011.96		P	0.2

89 Y (ISTD) [No Gas]

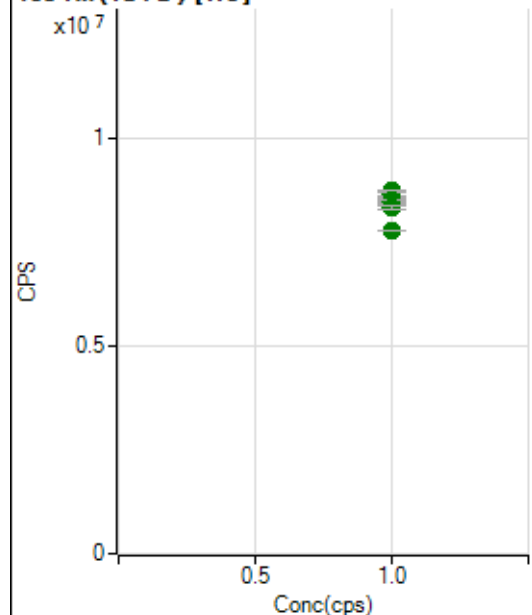
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		24415451.02		A	1.3
2	☐	1.000		24378884.36		A	0.9
3	☐	1.000		24963431.29		A	1.1
4	☐	1.000		24743076.30		A	0.3
5	☐	1.000		24685646.02		A	0.9
6	☐	1.000		24672137.13		A	2.1
7	☐	1.000		25096912.13		A	1.4
8	☐	1.000		24061138.25		A	2.9

89 Y(ISTD) [He]

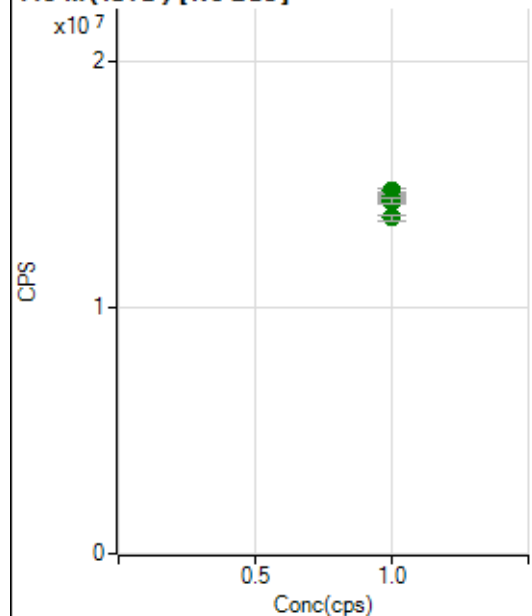
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6105951.99		A	0.6
2	☐	1.000		6133067.76		A	1.1
3	☐	1.000		6309064.14		A	0.8
4	☐	1.000		6100420.26		A	1.4
5	☐	1.000		6136056.44		A	0.8
6	☐	1.000		6286110.88		A	0.5
7	☐	1.000		6342341.92		A	1.3
8	☐	1.000		6373581.99		A	0.5

103 Rh(ISTD) [No Gas]

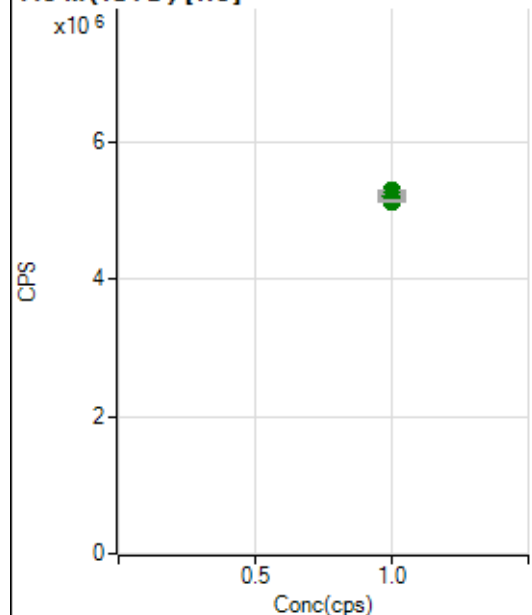
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14579082.14		A	0.9
2	☐	1.000		14523668.95		A	2.7
3	☐	1.000		14823355.06		A	0.7
4	☐	1.000		14445453.12		A	0.7
5	☐	1.000		14223737.15		A	1.6
6	☐	1.000		13829278.68		A	1.5
7	☐	1.000		14020320.49		A	1.1
8	☐	1.000		12931413.42		A	2.6

103 Rh (ISTD) [He]

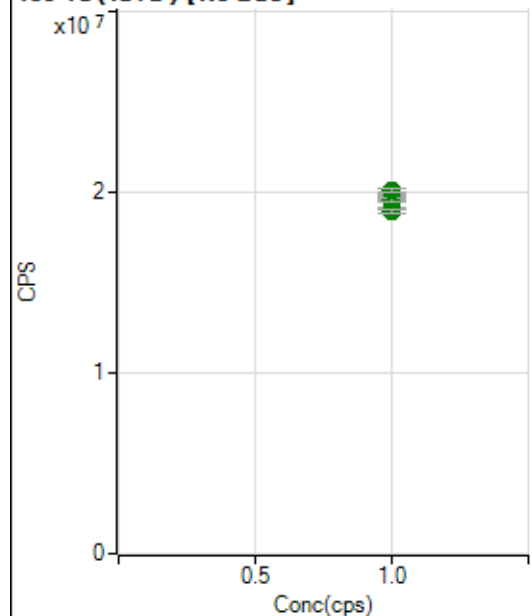
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8512635.08		A	0.5
2	☐	1.000		8638064.25		A	0.7
3	☐	1.000		8715355.77		A	0.2
4	☐	1.000		8500640.01		A	0.8
5	☐	1.000		8460590.71		A	0.6
6	☐	1.000		8459362.58		A	1.3
7	☐	1.000		8317312.44		A	1.2
8	☐	1.000		7750334.05		A	0.3

115 In (ISTD) [No Gas]

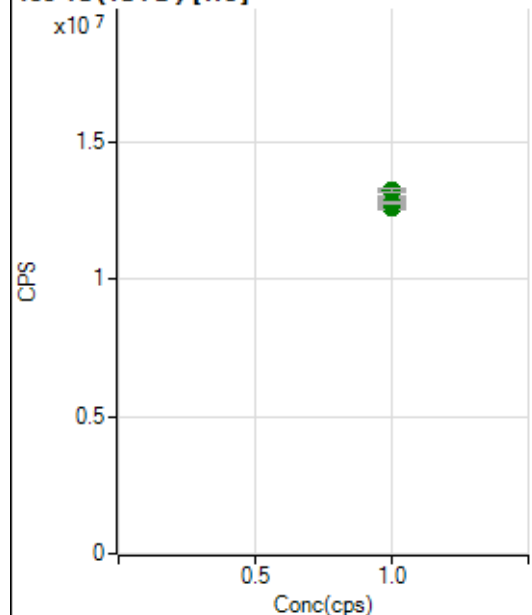
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14531530.17		A	0.2
2	☐	1.000		14494360.78		A	2.4
3	☐	1.000		14751493.44		A	1.5
4	☐	1.000		14673950.38		A	0.5
5	☐	1.000		14517457.47		A	1.3
6	☐	1.000		14390785.48		A	1.0
7	☐	1.000		14342156.35		A	1.7
8	☐	1.000		13654163.32		A	1.9

115 In (ISTD) [He]

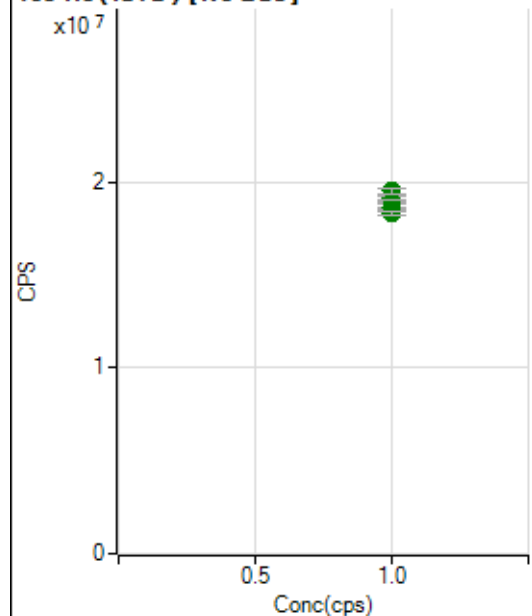
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5226057.72		A	0.3
2	☐	1.000		5222437.83		A	0.8
3	☐	1.000		5284464.22		A	0.2
4	☐	1.000		5154365.43		A	0.2
5	☐	1.000		5170033.24		A	0.5
6	☐	1.000		5207906.53		A	0.7
7	☐	1.000		5157902.49		A	0.9
8	☐	1.000		5135404.87		A	0.9

159 Tb (ISTD) [No Gas]

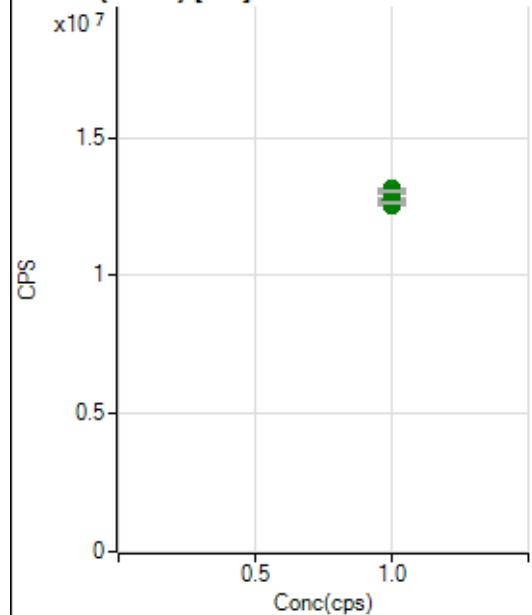
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		19149378.88		A	0.6
2	☐	1.000		18987245.69		A	1.6
3	☐	1.000		19541655.40		A	0.8
4	☐	1.000		19774627.90		A	1.6
5	☐	1.000		19779616.23		A	0.8
6	☐	1.000		19589868.32		A	1.3
7	☐	1.000		20096966.51		A	1.0
8	☐	1.000		18931503.33		A	1.0

159 Tb (ISTD) [He]

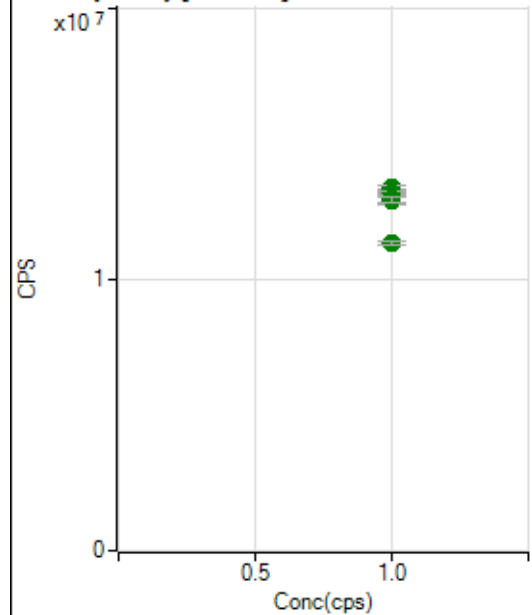
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		12630661.76		A	1.3
2	☐	1.000		12744269.11		A	1.5
3	☐	1.000		12975232.45		A	0.8
4	☐	1.000		12898697.45		A	0.3
5	☐	1.000		12969599.11		A	0.4
6	☐	1.000		13164535.78		A	1.8
7	☐	1.000		13231782.30		A	1.2
8	☐	1.000		12769154.81		A	0.6

165 Ho (ISTD) [No Gas]

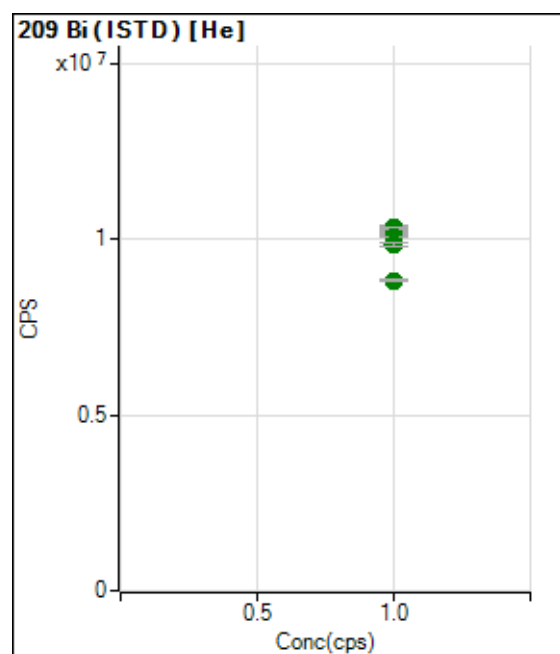
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		18573525.42		A	0.7
2	☐	1.000		18655896.67		A	2.0
3	☐	1.000		18965556.25		A	0.6
4	☐	1.000		18951652.91		A	0.3
5	☐	1.000		19282961.24		A	0.2
6	☐	1.000		19140782.91		A	1.0
7	☐	1.000		19540642.21		A	1.4
8	☐	1.000		18355934.17		A	1.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		12550170.23		A	0.6
2	☐	1.000		12568184.68		A	0.7
3	☐	1.000		12773544.25		A	1.0
4	☐	1.000		12747116.48		A	1.2
5	☐	1.000		12976895.50		A	0.8
6	☐	1.000		13138047.72		A	0.4
7	☐	1.000		13081144.66		A	0.6
8	☐	1.000		12614285.65		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		13049366.61		A	0.2
2	☐	1.000		12912728.98		A	2.0
3	☐	1.000		13389448.69		A	1.0
4	☐	1.000		13319332.99		A	2.1
5	☐	1.000		13375809.80		A	1.7
6	☐	1.000		13209216.75		A	0.9
7	☐	1.000		12955365.64		A	1.2
8	☐	1.000		11344156.36		A	1.7



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10249694.92		A	0.7
2	☐	1.000		10172801.38		A	0.3
3	☐	1.000		10331576.10		A	1.1
4	☐	1.000		10288016.51		A	0.4
5	☐	1.000		10312068.32		A	0.9
6	☐	1.000		10079827.21		A	0.3
7	☐	1.000		9838123.54		A	1.1
8	☐	1.000		8832002.16		A	0.7

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7080422-MS.b

Acq. Date-Time 2022-08-04 09:07:33

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		7267	72669.65			0.648	5.000
24		121962	1219620.53			0.631	5.000
25		15824	158237.16			0.116	5.000
26		18388	183881.15			0.775	5.000
59		68640	686398.60			1.095	5.000
113		3798	37981.96			0.378	5.000
115		85440	854402.11			0.965	5.000
206		22387	223867.96			0.611	5.000
207		20572	205723.07			0.186	5.000
208		48194	481937.64			0.693	5.000
220		0	2.30			52.355	

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

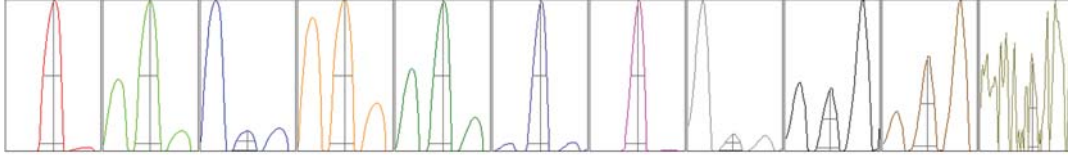
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7285	7304	7208	7312	7226
24	121801	120917	122196	121847	123049
25	15815	15813	15804	15844	15842
26	18433	18332	18446	18554	18175
59	68115	69855	67934	68574	68721
113	3807	3815	3781	3802	3786
115	85896	86073	84389	86131	84712
206	22471	22471	22255	22514	22223
207	20611	20571	20554	20606	20519
208	48379	47643	48382	48453	48112

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	13522.40	9.05	8.90 - 9.10	
24	217169.86	24.00	23.90 - 24.10	
25	28464.29	25.00	24.90 - 25.10	
26	32020.50	26.00	25.90 - 26.10	
59	139369.90	59.05	58.90 - 59.10	
113	8737.39	113.05	112.90 - 113.10	
115	198376.14	115.05	114.90 - 115.10	
206	48130.21	205.95	205.90 - 206.10	
207	44476.31	206.95	206.90 - 207.10	
208	106383.88	207.95	207.90 - 208.10	
220	0.40	220.20	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.764	0.900	
24	0.59	0.812	0.900	
25	0.59	0.740	0.900	
26	0.60	0.782	0.900	
59	0.51	0.728	0.900	
113	0.45	0.678	0.900	
115	0.43	0.676	0.900	
206	0.47	0.734	0.900	
207	0.47	0.734	0.900	
208	0.44	0.761	0.900	
220	0.22	0.292		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.73 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	10.4 V	Deflect	15.0 V
Extract 2	-170.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-95 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	1.0000	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	-0.8 mm	Torch V	0.8 mm
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EM

Discriminator	3.1 mV	Analog HV	2201 V	Pulse HV	1427 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		24175	241753.41			0.527	
89		65305	653052.74			0.263	
205		132113	1321131.24			1.032	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	24262	23970	24229	24281	24135
89	65274	65532	65356	65055	65309
205	133061	133214	131438	130025	132827

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.73 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	11.9 V	Deflect	3.0 V
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US EPA Tune Check Report

Extract 2	-210.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-110 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	1.0000	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	-0.8 mm	Torch V	0.8 mm
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EM

Discriminator	3.1 mV	Analog HV	2201 V	Pulse HV	1427 V
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