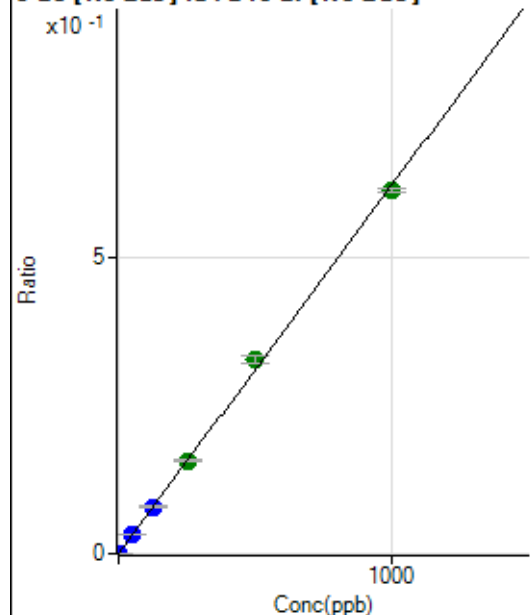


Calibration for 007CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8040222-MS.b\
 Analysis File: P8040222-MS.batch.bin
 DA Date-Time: 2022-04-02 19:38:55
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	006CALB.d	S00	2022-04-02 13:35:38
2	008CALS.d	S02	2022-04-02 13:41:47
3	009CALS.d	S03	2022-04-02 13:44:50
4	010CALS.d	S04	2022-04-02 13:47:56
5	011CALS.d	S05	2022-04-02 13:50:59
6	012CALS.d	S06	2022-04-02 13:54:05
7	013CALS.d	S07	2022-04-02 13:57:08
8	014CALS.d	S08	2022-04-02 14:00:14

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	31.99	0.0000	P	10.1
2	☐	1.000	0.998	4381.80	0.0006	P	1.0
3	☐	50.000	53.445	224433.79	0.0333	P	0.2
4	☐	125.000	126.955	538718.39	0.0790	P	2.9
5	☐	250.000	252.693	1092902.06	0.1572	A	2.9
6	☐	500.000	526.601	2176538.97	0.3277	A	3.4
7	☐	1000.000	985.610	4188984.48	0.6133	A	1.0
8	☐			303.95	0.0000	P	12.3

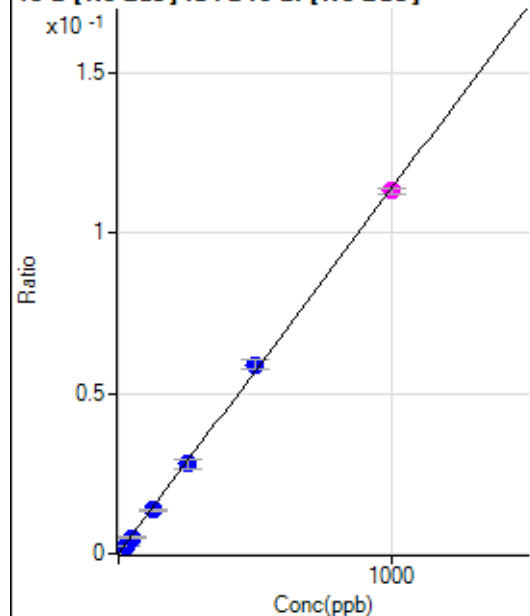
$$y = 6.2224\text{E-}004 * x + 4.7796\text{E-}006$$

$$R = 0.9995$$

$$DL = 0.002324$$

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	503.91	0.0001	P	13.1
2	☐	25.000	18.876	15583.28	0.0022	P	5.6
3	☐	50.000	43.777	34167.82	0.0051	P	4.9
4	☐	125.000	119.460	93315.33	0.0137	P	5.8
5	☐	250.000	245.000	194006.03	0.0280	P	9.6
6	☐	500.000	517.754	392324.04	0.0591	P	4.8
7	☐	1000.000	993.530	773713.99	0.1133	M	1.5
8	☐			77023.11	0.0116	P	7.8

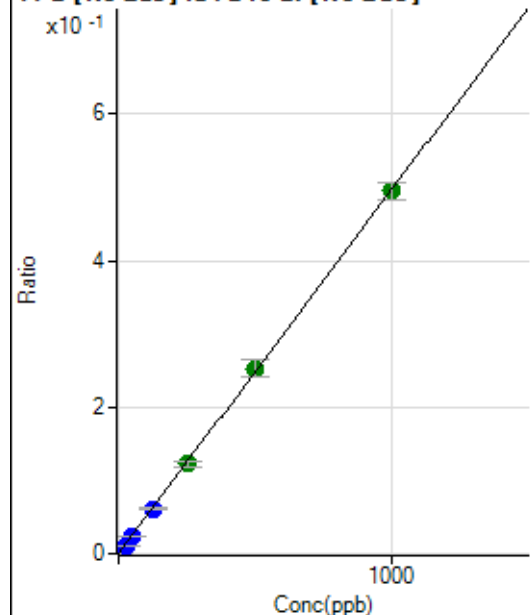
$$y = 1.1394\text{E-}004 * x + 7.5298\text{E-}005$$

$$R = 0.9997$$

$$DL = 0.2602$$

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	2317.73	0.0003	P	3.3
2	☐	25.000	19.523	70237.29	0.0100	P	7.2
3	☐	50.000	46.659	158561.79	0.0235	P	4.9
4	☐	125.000	123.134	418947.63	0.0614	P	4.4
5	☐	250.000	246.510	852194.50	0.1226	A	5.9
6	☐	500.000	508.586	1676858.04	0.2527	A	9.5
7	☐	1000.000	997.117	3380729.53	0.4951	A	5.0
8	☐			339904.20	0.0513	P	6.5

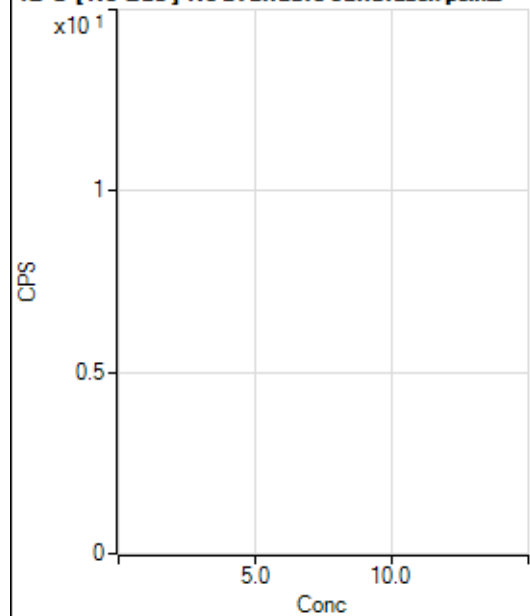
$$y = 4.9614\text{E-}004 * x + 3.4640\text{E-}004$$

$$R = 0.9999$$

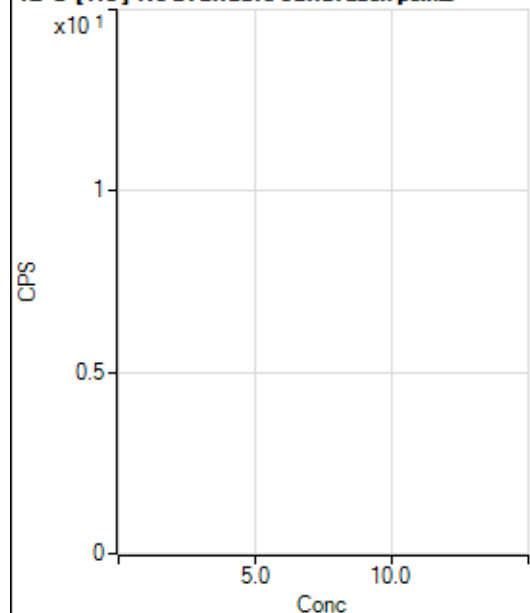
$$DL = 0.06843$$

Weight: <None>

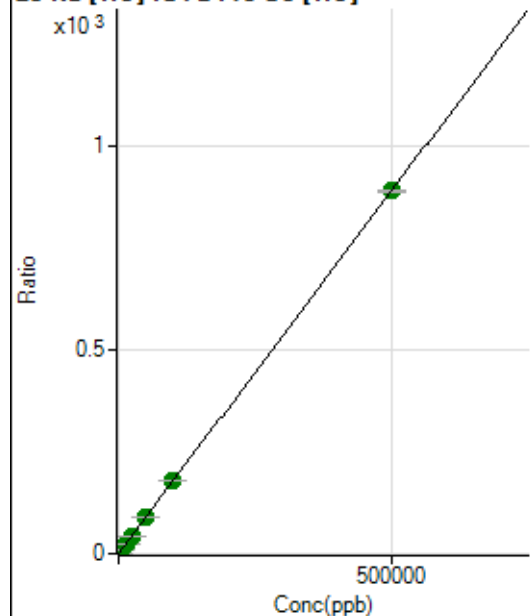
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			12553651.06		A	5.4
2	☐			12789331.10		A	4.9
3	☐			15517405.38		A	2.6
4	☐			13613235.72		A	2.4
5	☐			13301581.64		A	2.5
6	☐			13346602.38		A	0.7
7	☐			14183860.91		A	1.3
8	☐			13314263.23		A	0.6

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			108709.38		P	1.2
2	☐			108838.49		P	2.2
3	☐			138333.18		P	1.0
4	☐			123632.03		P	1.2
5	☐			121315.44		P	1.7
6	☐			122124.67		P	1.4
7	☐			131424.94		P	1.6
8	☐			132533.09		P	0.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22734.82	0.0920	P	1.3
2	☐	500.000	462.737	235366.56	0.9167	P	1.3
3	☐	5000.000	5478.706	2460115.16	9.8560	A	0.6
4	☐	12500.000	13015.190	5788267.36	23.2873	A	1.1
5	☐	25000.000	23797.143	11082566.22	42.5025	A	4.9
6	☐	50000.000	50094.740	22433046.34	89.3693	A	1.7
7	☐	100000.00	100066.46	45115671.84	178.4274	A	0.5
8	☐	500000.00	500019.74	221437910.5	891.2121	A	0.9

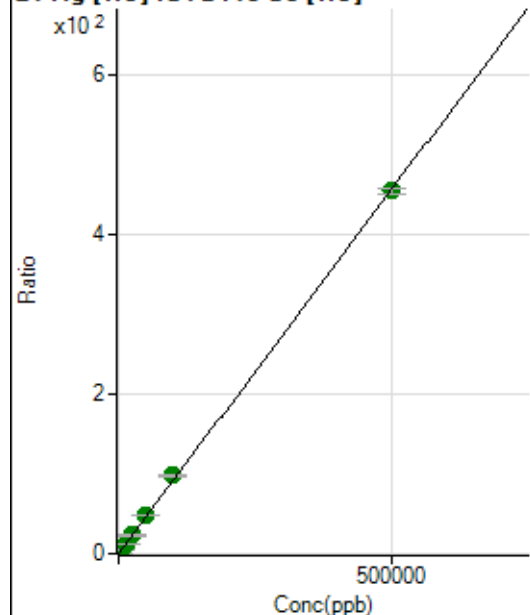
$$y = 0.0018 * x + 0.0920$$

$$R = 1.0000$$

$$DL = 2.032$$

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	519.47	0.0021	P	12.9
2	☐	500.000	495.165	116672.12	0.4544	P	1.1
3	☐	5000.000	5876.981	1340319.29	5.3700	A	0.6
4	☐	12500.000	13759.790	3124477.37	12.5699	A	1.4
5	☐	25000.000	25253.953	6015407.95	23.0683	A	4.6
6	☐	50000.000	53092.143	12172742.29	48.4949	A	1.6
7	☐	100000.00	107204.43	24763176.25	97.9194	A	2.0
8	☐	500000.00	498196.94	113071653.9	455.0400	A	1.4

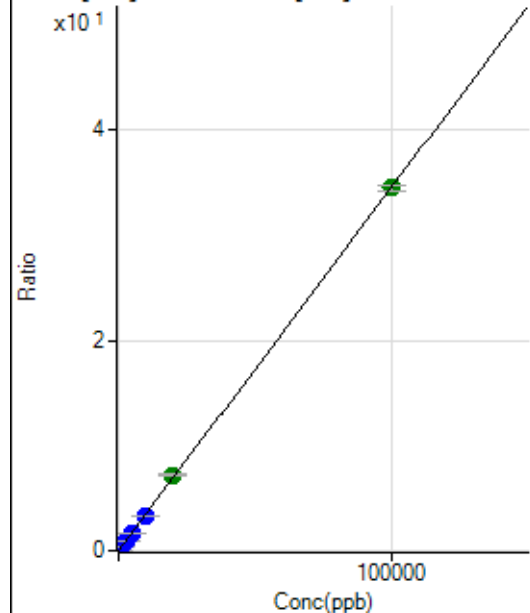
$$y = 9.1337\text{E-}004 * x + 0.0021$$

$$R = 0.9999$$

$$DL = 0.8917$$

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	97.49	0.0004	P	6.6
2	☐	20.000	18.663	1755.31	0.0068	P	3.2
3	☐	1000.000	1064.046	91767.66	0.3677	P	0.9
4	☐	2500.000	2543.677	218327.94	0.8784	P	1.3
5	☐	5000.000	4704.733	423737.79	1.6243	P	2.4
6	☐	10000.000	9771.707	846786.16	3.3733	P	0.4
7	☐	20000.000	20857.936	1820579.11	7.1999	A	2.0
8	☐	100000.00	99864.273	8564858.78	34.4703	A	1.4

$$y = 3.4517\text{E-}004 * x + 3.9430\text{E-}004$$

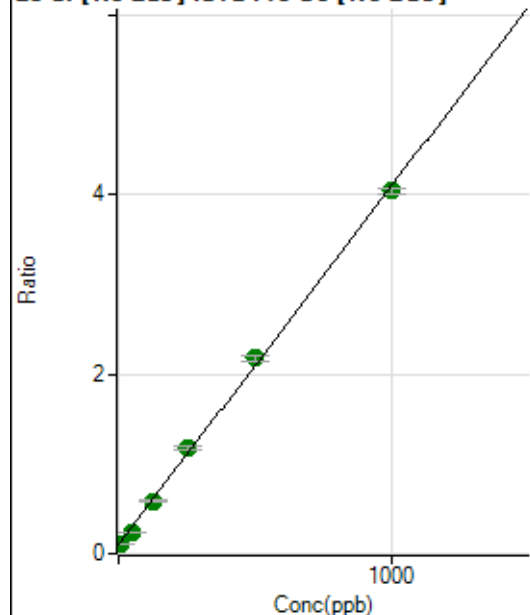
$$R = 0.9999$$

$$DL = 0.2258$$

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	934915.30	0.1018	A	2.9
2	☐	10.000	2.380	1049421.52	0.1113	A	0.8
3	☐	50.000	33.422	2210432.53	0.2353	A	3.3
4	☐	125.000	120.375	5501530.77	0.5828	A	2.6
5	☐	250.000	269.644	11161712.49	1.1794	A	3.9
6	☐	500.000	519.888	20623354.28	2.1796	A	2.5
7	☐	1000.000	986.628	39196664.77	4.0449	A	1.8
8	☐			2048156.64	0.2185	A	1.4

$$y = 0.0040 * x + 0.1018$$

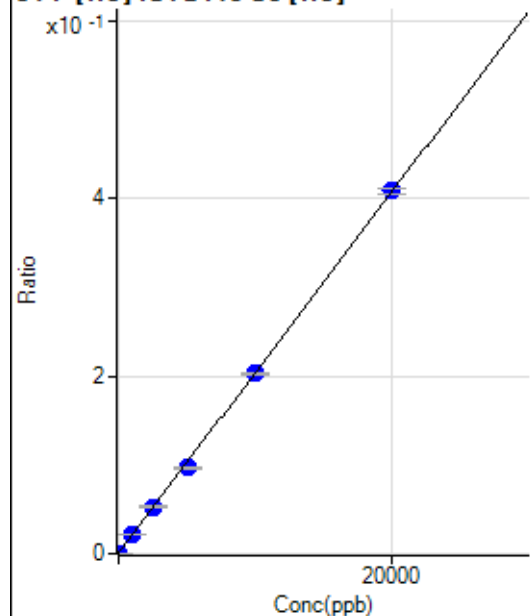
$$R = 0.9992$$

$$DL = 2.226$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-9.897	122.23	0.0005	P	14.0
2	☐	0.000	9.897	230.56	0.0009	P	26.9
3	☐	1000.000	1078.754	5645.67	0.0226	P	0.7
4	☐	2500.000	2570.901	13159.14	0.0529	P	2.0
5	☐	5000.000	4753.769	25386.76	0.0973	P	2.1
6	☐	10000.000	9946.568	50918.26	0.2028	P	0.9
7	☐	20000.000	20075.474	103327.27	0.4087	P	1.9
8	☐			216.67	0.0009	P	4.4

$$y = 2.0323E-005 * x + 6.9563E-004$$

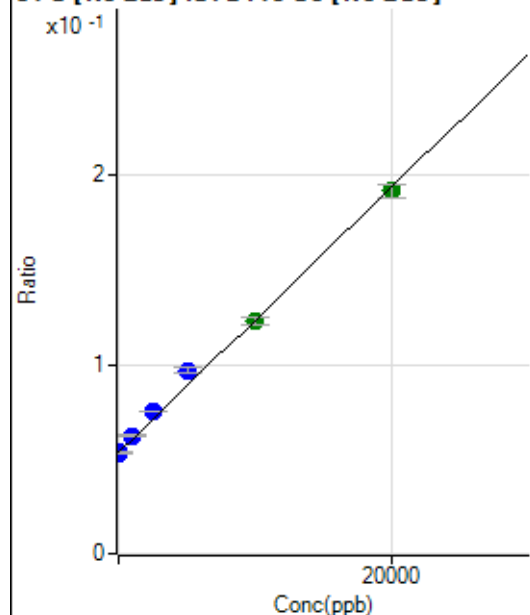
$$R = 0.9999$$

$$DL = 22.88$$

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	24.648	492385.58	0.0536	P	2.1
2	☐	0.000	-24.648	502090.56	0.0532	P	1.0
3	☐	1000.000	1272.889	585708.81	0.0623	P	0.8
4	☐	2500.000	3113.501	710522.75	0.0753	P	0.7
5	☐	5000.000	6172.328	915607.21	0.0967	P	3.1
6	☐	10000.000	9842.593	1158887.86	0.1225	A	3.4
7	☐	20000.000	19695.289	1856691.71	0.1917	A	4.0
8	☐			418499.59	0.0447	P	1.9

$$y = 7.0191\text{E-}006 * x + 0.0534$$

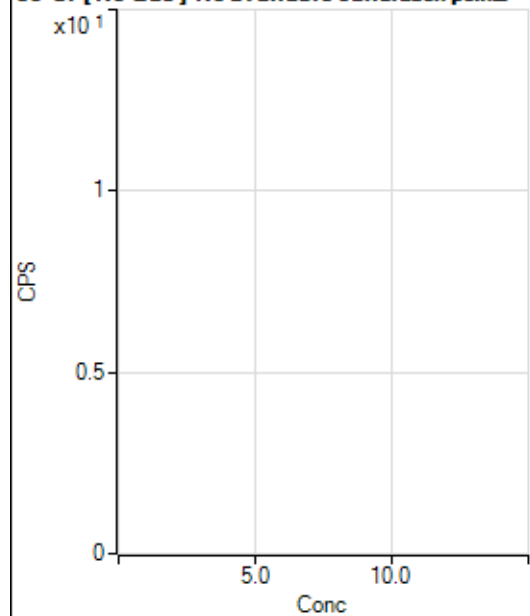
R = 0.9978

DL = 357.4

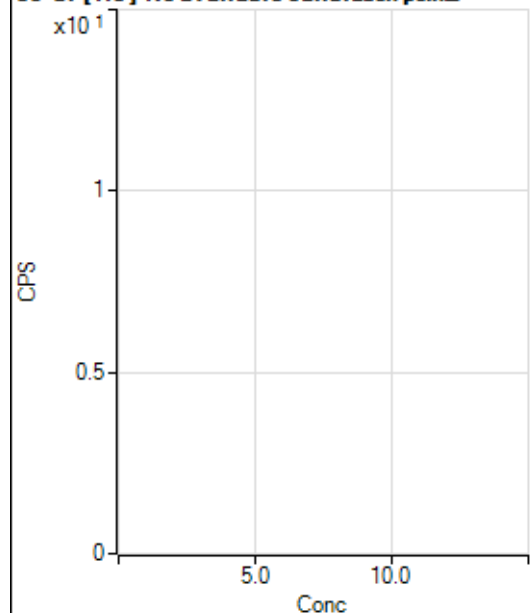
Weight: <None>

Min Conc: 0

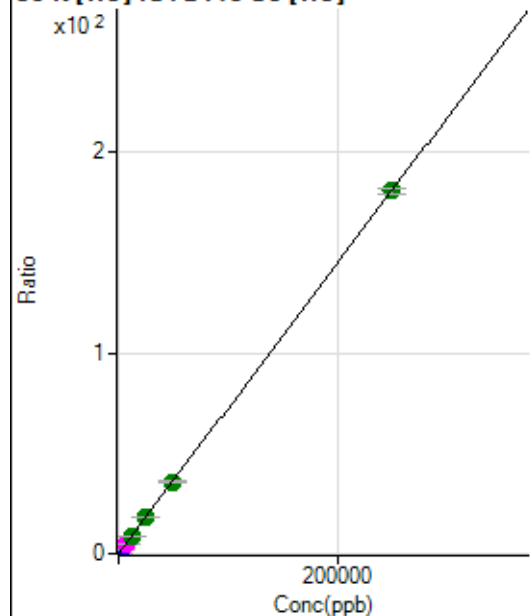
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			252523.17		P	1.2
2	☐			232715.21		P	0.1
3	☐			234518.80		P	1.4
4	☐			225572.04		P	1.8
5	☐			215966.72		P	0.7
6	☐			209412.76		P	0.4
7	☐			198938.98		P	0.9
8	☐			189341.84		P	1.3

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1591.80		P	13.0
2	☐			1494.57		P	8.6
3	☐			1516.78		P	7.6
4	☐			1425.11		P	8.9
5	☐			1486.24		P	1.4
6	☐			1302.87		P	18.3
7	☐			1255.65		P	4.3
8	☐			1147.30		P	12.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22890.84	0.0926	P	1.8
2	☐	500.000	462.470	109637.91	0.4270	P	1.5
3	☐	2500.000	2651.969	501670.78	2.0100	P	1.3
4	☐	6250.000	6285.426	1152495.79	4.6370	M	2.8
5	☐	12500.000	12119.783	2310324.99	8.8553	A	2.9
6	☐	25000.000	24633.178	4494127.09	17.9026	A	1.3
7	☐	50000.000	49496.759	9072281.11	35.8792	A	0.7
8	☐	250000.00	250154.01	44960702.05	180.9559	A	1.6

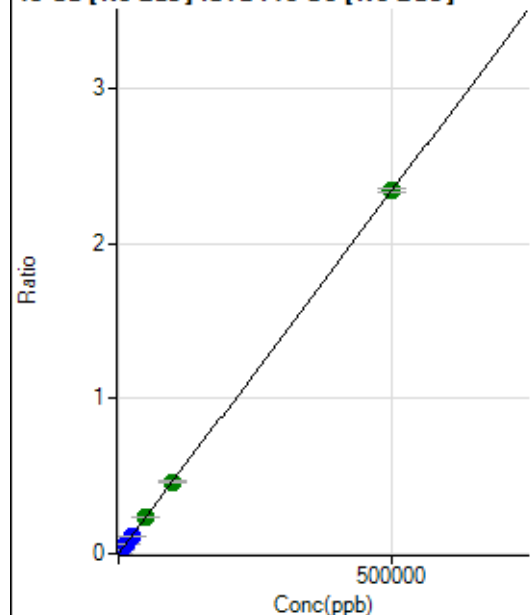
$$y = 7.2301E-004 * x + 0.0926$$

$$R = 1.0000$$

$$DL = 7.023$$

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	223.72	0.0000	P	13.4
2	☐	500.000	470.085	20992.67	0.0022	P	3.1
3	☐	5000.000	5252.626	231365.16	0.0246	P	1.5
4	☐	12500.000	12435.193	550135.53	0.0583	P	1.0
5	☐	25000.000	24454.556	1084307.81	0.1146	P	3.7
6	☐	50000.000	49830.987	2209040.75	0.2334	A	1.1
7	☐	100000.00	99222.640	4504134.28	0.4648	A	2.0
8	☐	500000.00	500198.76	21963674.57	2.3431	A	1.1

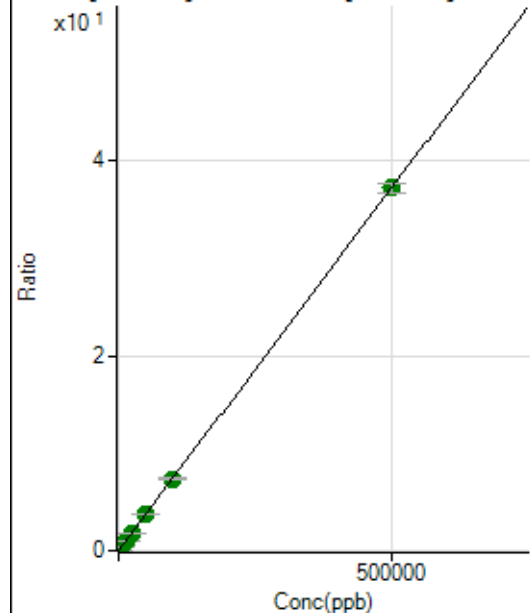
$$y = 4.6843E-006 * x + 2.4372E-005$$

R = 1.0000

DL = 2.094

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	19682.88	0.0021	P	2.2
2	☐	500.000	475.482	353980.47	0.0375	P	2.4
3	☐	5000.000	5365.278	3772904.02	0.4016	A	1.5
4	☐	12500.000	12462.645	8778390.74	0.9299	A	1.8
5	☐	25000.000	24412.411	17220893.25	1.8195	A	3.4
6	☐	50000.000	49605.799	34962607.23	3.6951	A	2.0
7	☐	100000.00	99101.965	71524833.68	7.3799	A	0.7
8	☐	500000.00	500245.71	349010980.8	37.2435	A	2.9

$$y = 7.4446E-005 * x + 0.0021$$

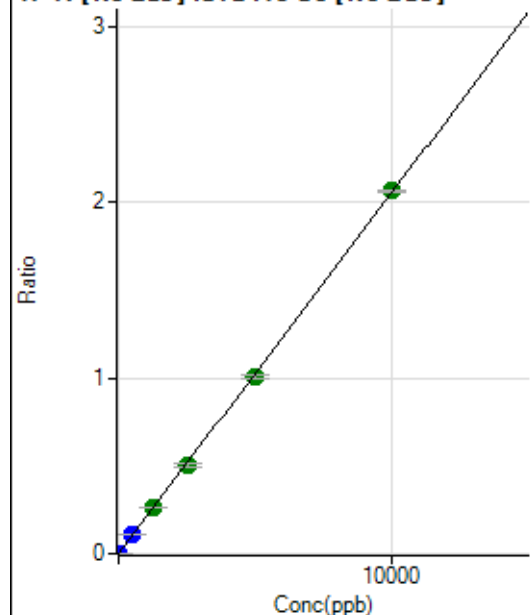
R = 1.0000

DL = 1.932

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	372.24	0.0000	P	11.0
2	☐	5.000	4.992	10048.19	0.0011	P	2.7
3	☐	500.000	535.915	1033975.75	0.1101	P	2.2
4	☐	1250.000	1269.322	2460172.41	0.2606	A	2.2
5	☐	2500.000	2460.527	4781517.34	0.5052	A	3.2
6	☐	5000.000	4907.747	9532724.00	1.0076	A	2.9
7	☐	10000.000	10051.784	20000677.88	2.0637	A	0.6
8	☐			2619.76	0.0003	P	9.1

$$y = 2.0530E-004 * x + 4.0514E-005$$

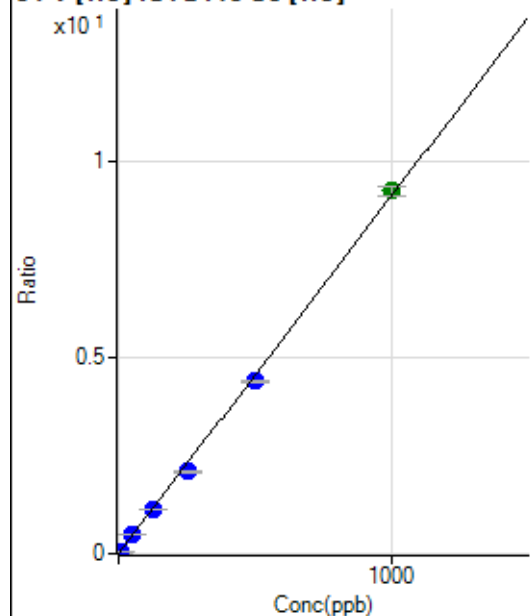
$$R = 0.9999$$

$$DL = 0.0649$$

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	3.33	0.0000	P	1.1
2	☐	5.000	4.648	10876.43	0.0424	P	0.8
3	☐	50.000	52.079	118408.14	0.4744	P	0.9
4	☐	125.000	123.646	279961.62	1.1263	P	0.6
5	☐	250.000	229.283	544751.55	2.0886	P	3.4
6	☐	500.000	482.150	1102453.84	4.3920	P	1.5
7	☐	1000.000	1014.171	2336370.36	9.2383	A	2.4
8	☐			342.23	0.0014	P	18.6

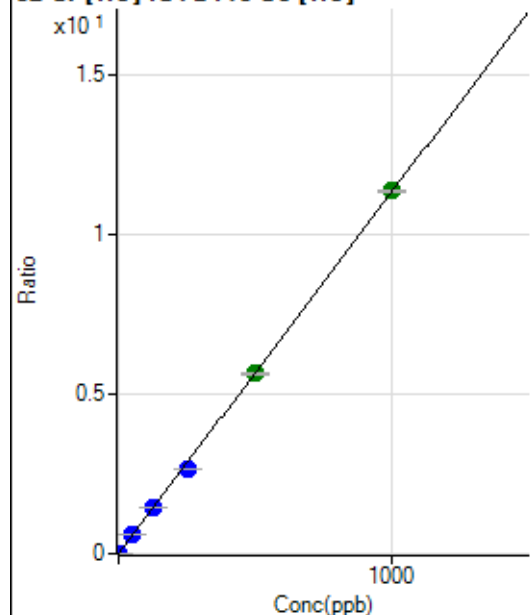
$$y = 0.0091 * x + 1.3476E-005$$

$$R = 0.9995$$

$$DL = 4.924E-05$$

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	1293.41	0.0052	P	3.5
2	☐	2.000	1.831	6662.73	0.0259	P	3.1
3	☐	50.000	52.868	150548.15	0.6032	P	1.6
4	☐	125.000	125.679	354622.99	1.4267	P	0.5
5	☐	250.000	232.898	688692.32	2.6394	P	1.4
6	☐	500.000	499.593	1419705.12	5.6558	A	1.3
7	☐	1000.000	1004.251	2873495.41	11.3637	A	0.6
8	☐			23982.42	0.0965	P	1.0

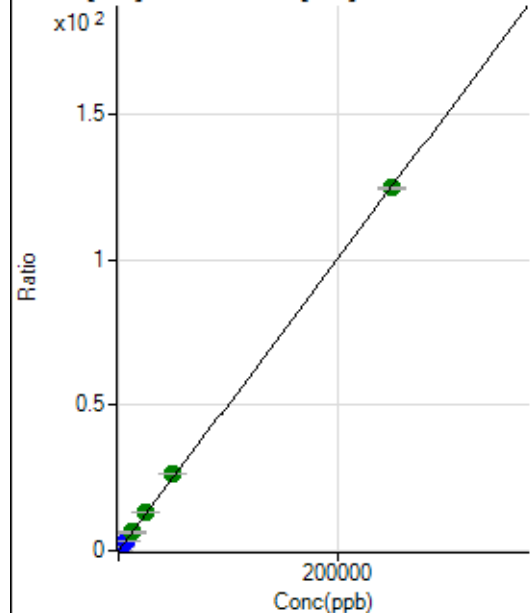
$$y = 0.0113 * x + 0.0052$$

$$R = 0.9998$$

$$DL = 0.04889$$

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	775.96	0.0031	P	6.7
2	☐	50.000	50.036	7226.03	0.0281	P	3.1
3	☐	2500.000	2804.359	350559.21	1.4046	P	2.1
4	☐	6250.000	6556.637	815197.05	3.2798	P	1.3
5	☐	12500.000	12684.430	1653706.16	6.3421	A	4.7
6	☐	25000.000	26308.059	3300968.19	13.1504	A	1.5
7	☐	50000.000	52434.321	6626902.81	26.2069	A	0.8
8	☐	250000.00	249362.39	30966074.53	124.6205	A	0.9

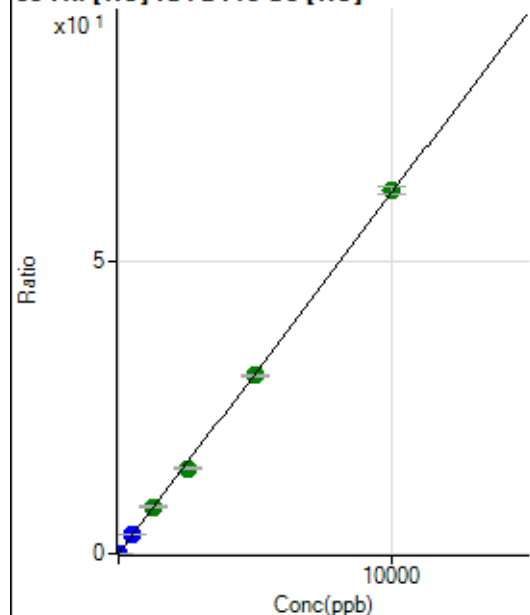
$$y = 4.9974E-004 * x + 0.0031$$

$$R = 0.9999$$

$$DL = 1.269$$

Weight: <None>

Min Conc: 0

⁵⁵Mn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	51.11	0.0002	P	33.3
2	☐	1.000	0.928	1527.88	0.0060	P	4.5
3	☐	500.000	527.991	815520.13	3.2676	P	2.0
4	☐	1250.000	1300.334	2000195.02	8.0471	A	1.5
5	☐	2500.000	2363.762	3816479.84	14.6279	A	1.7
6	☐	5000.000	4937.220	7669333.70	30.5532	A	1.8
7	☐	10000.000	10057.758	15735996.01	62.2407	A	2.2
8	☐			8265.80	0.0333	P	1.2

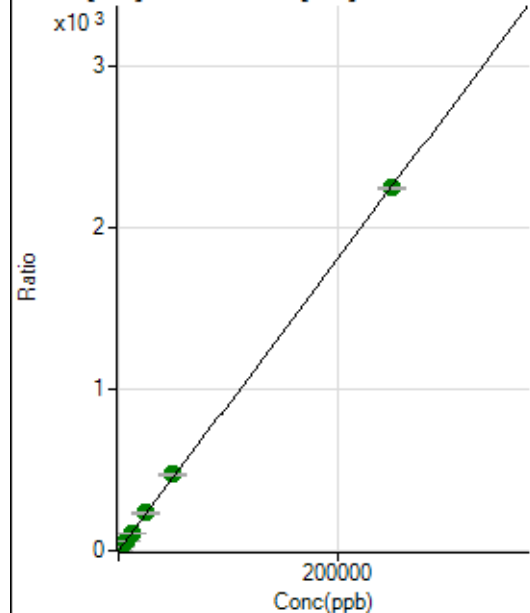
$$y = 0.0062 * x + 2.0669E-004$$

$$R = 0.9998$$

$$DL = 0.03334$$

Weight: <None>

Min Conc: 0

⁵⁶Fe [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6066.22	0.0246	P	4.9
2	☐	50.000	48.816	119213.78	0.4643	P	1.4
3	☐	2500.000	2798.129	6297330.46	25.2304	A	0.8
4	☐	6250.000	6709.351	15028907.51	60.4632	A	0.9
5	☐	12500.000	12154.824	28563360.82	109.5167	A	3.6
6	☐	25000.000	25824.544	58406354.08	232.6551	A	1.1
7	☐	50000.000	52718.197	120066370.2	474.9164	A	2.7
8	☐	250000.00	249376.70	558192797.6	2,246.439	A	0.8

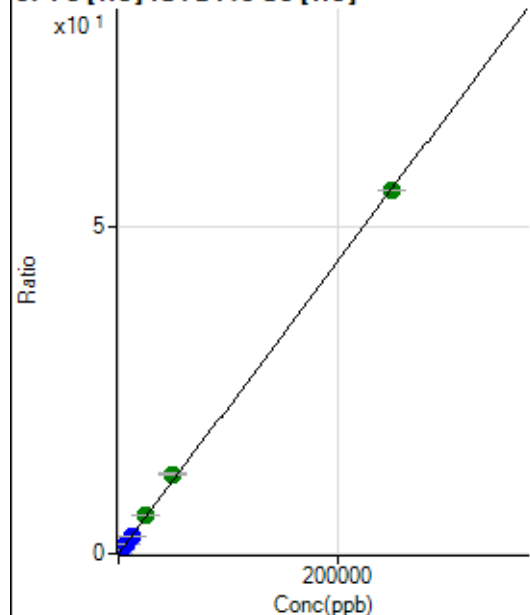
$$y = 0.0090 * x + 0.0246$$

$$R = 0.9999$$

$$DL = 0.3995$$

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	205.56	0.0008	P	16.6
2	☐	50.000	49.579	3048.53	0.0119	P	6.2
3	☐	2500.000	2774.428	154466.84	0.6189	P	2.6
4	☐	6250.000	6585.423	364850.48	1.4679	P	0.9
5	☐	12500.000	12231.123	710814.68	2.7256	P	3.9
6	☐	25000.000	26496.696	1482034.08	5.9036	A	0.9
7	☐	50000.000	54449.871	3067007.01	12.1308	A	1.5
8	☐	250000.00	248962.67	13781280.52	55.4630	A	0.2

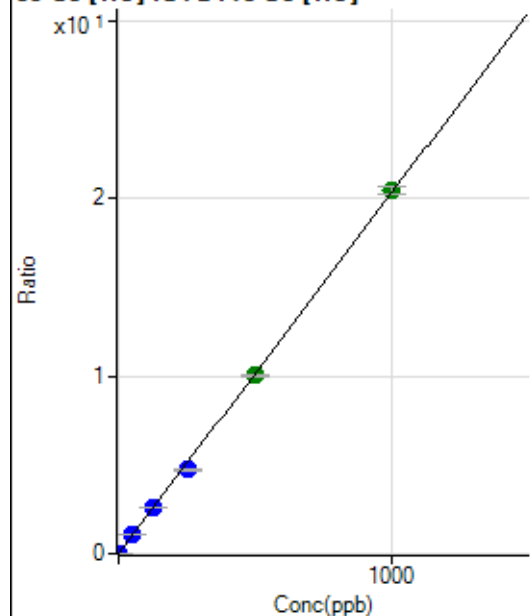
$$y = 2.2277\text{E-}004 * x + 8.3197\text{E-}004$$

$$R = 0.9998$$

$$DL = 1.861$$

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	54.45	0.0002	P	23.7
2	☐	1.000	0.991	5229.90	0.0204	P	3.3
3	☐	50.000	53.181	269807.88	1.0810	P	1.7
4	☐	125.000	126.238	637745.62	2.5658	P	0.9
5	☐	250.000	233.267	1236768.92	4.7410	P	2.5
6	☐	500.000	495.429	2527579.41	10.0690	A	1.2
7	☐	1000.000	1006.155	5169884.33	20.4486	A	2.1
8	☐			7110.75	0.0286	P	1.8

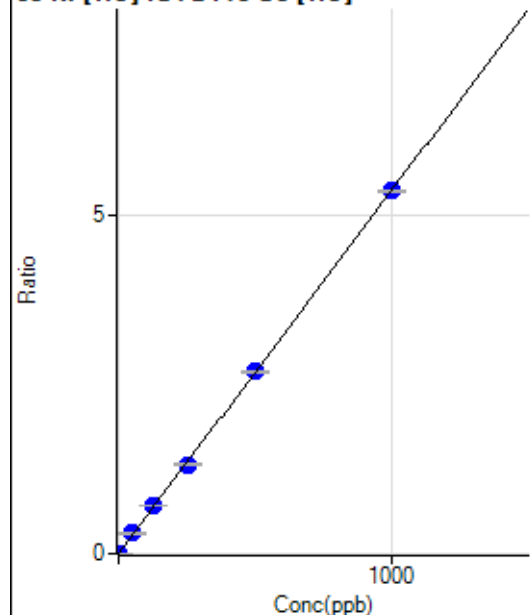
$$y = 0.0203 * x + 2.1999\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.007694$$

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	45.56	0.0002	P	26.6
2	☐	1.000	1.067	1513.43	0.0059	P	3.3
3	☐	50.000	55.846	74633.75	0.2990	P	2.4
4	☐	125.000	132.759	176628.40	0.7106	P	0.6
5	☐	250.000	244.470	341315.35	1.3084	P	2.6
6	☐	500.000	501.267	673379.97	2.6826	P	1.1
7	☐	1000.000	999.487	1352510.72	5.3487	P	0.6
8	☐			7543.18	0.0304	P	2.2

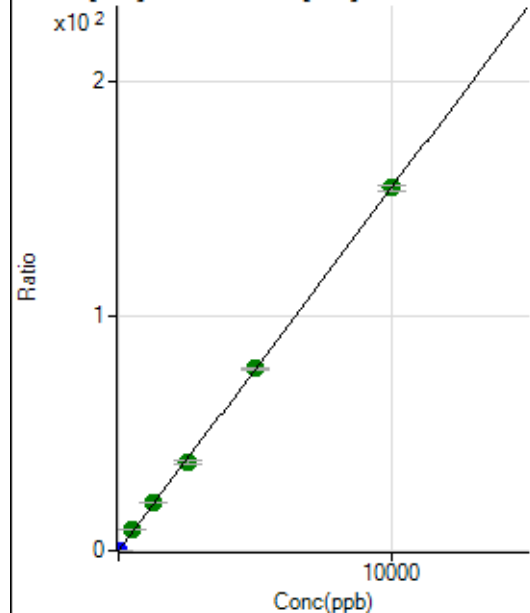
$$y = 0.0054 * x + 1.8401E-004$$

$$R = 0.9999$$

$$DL = 0.02745$$

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	960.04	0.0039	P	4.2
2	☐	2.000	1.981	8879.53	0.0346	P	1.1
3	☐	500.000	567.052	2193632.92	8.7884	A	0.6
4	☐	1250.000	1312.104	5053163.74	20.3304	A	1.3
5	☐	2500.000	2434.593	9835650.90	37.7194	A	4.6
6	☐	5000.000	5013.682	19499086.52	77.6733	A	1.3
7	☐	10000.000	9998.395	39166109.97	154.8940	A	1.4
8	☐			9576.66	0.0385	P	1.5

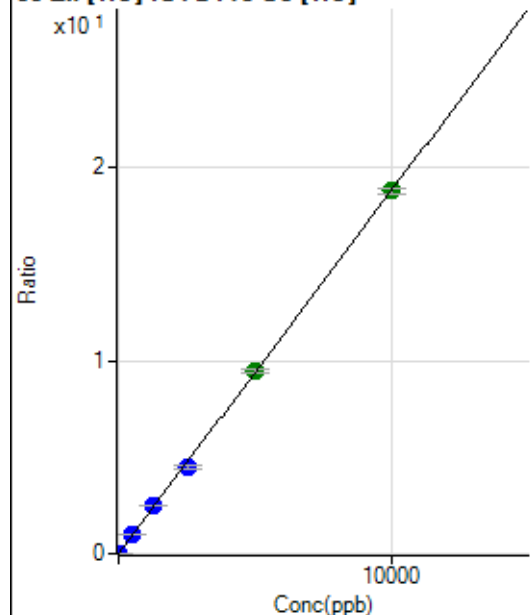
$$y = 0.0155 * x + 0.0039$$

$$R = 0.9999$$

$$DL = 0.03143$$

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	144.45	0.0006	P	4.4
2	☐	2.000	2.303	1262.29	0.0049	P	0.7
3	☐	500.000	547.008	256931.18	1.0294	P	0.7
4	☐	1250.000	1302.464	609026.64	2.4502	P	0.3
5	☐	2500.000	2394.949	1174807.30	4.5049	P	4.1
6	☐	5000.000	5051.914	2385245.92	9.5021	A	2.3
7	☐	10000.000	9991.397	4751171.98	18.7921	A	1.5
8	☐			4237.34	0.0171	P	2.1

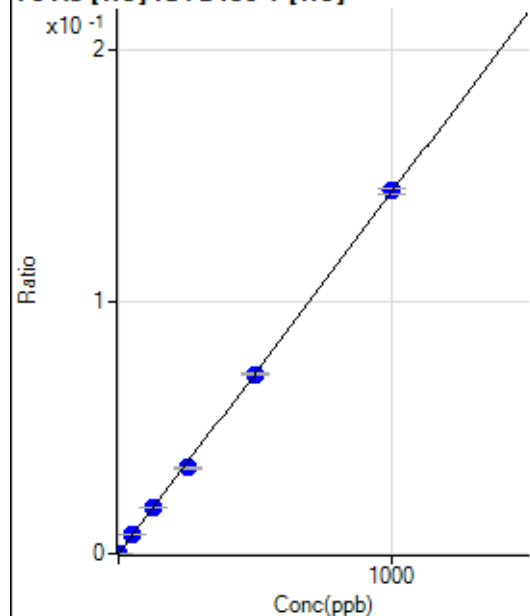
$$y = 0.0019 * x + 5.8465E-004$$

$$R = 0.9999$$

$$DL = 0.0407$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5.33	0.0000	P	40.0
2	☐	1.000	1.070	303.70	0.0002	P	7.3
3	☐	50.000	55.139	14601.67	0.0079	P	1.8
4	☐	125.000	128.217	34423.16	0.0184	P	2.2
5	☐	250.000	237.229	66771.94	0.0340	P	1.2
6	☐	500.000	496.547	134389.07	0.0712	P	1.3
7	☐	1000.000	1004.260	278211.97	0.1440	P	1.6
8	☐			81.68	0.0000	P	16.8

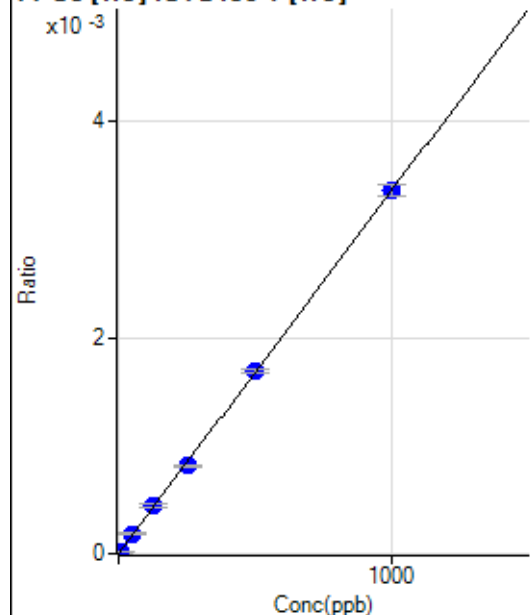
$$y = 1.4337E-004 * x + 2.8790E-006$$

$$R = 0.9999$$

$$DL = 0.02408$$

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
2	☐	5.000	4.768	32.22	0.0000	P	30.2
3	☐	50.000	54.495	338.90	0.0002	P	4.0
4	☐	125.000	132.974	836.70	0.0004	P	10.8
5	☐	250.000	241.095	1590.11	0.0008	P	2.8
6	☐	500.000	502.526	3187.06	0.0017	P	1.8
7	☐	1000.000	999.743	6486.00	0.0034	P	3.1
8	☐			0.00	0.0000	P	

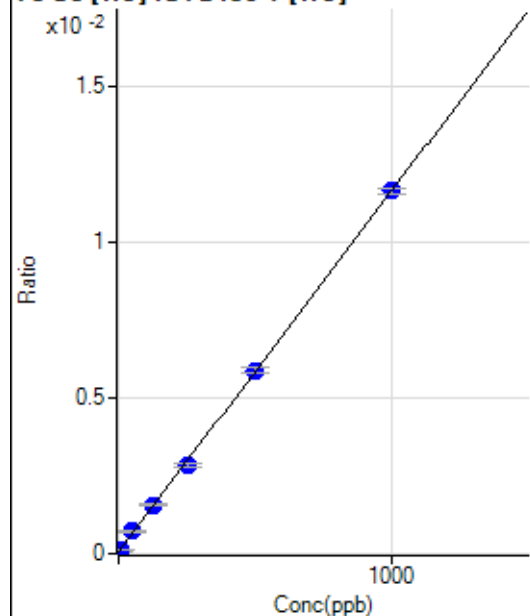
$$y = 3.3577\text{E-}006 * x + 5.8799\text{E-}007$$

$$R = 0.9999$$

$$DL = 0.9099$$

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	129.34	0.0001	P	3.3
2	☐	5.000	4.716	241.03	0.0001	P	2.6
3	☐	50.000	55.840	1319.86	0.0007	P	2.5
4	☐	125.000	127.850	2895.93	0.0015	P	3.6
5	☐	250.000	238.822	5553.33	0.0028	P	3.1
6	☐	500.000	503.381	11111.17	0.0059	P	2.3
7	☐	1000.000	1000.457	22473.77	0.0116	P	1.6
8	☐			126.01	0.0001	P	14.1

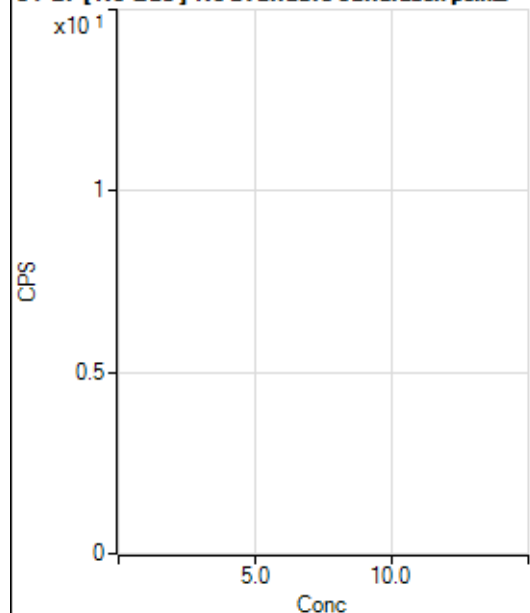
$$y = 1.1556\text{E-}005 * x + 6.9570\text{E-}005$$

$$R = 0.9999$$

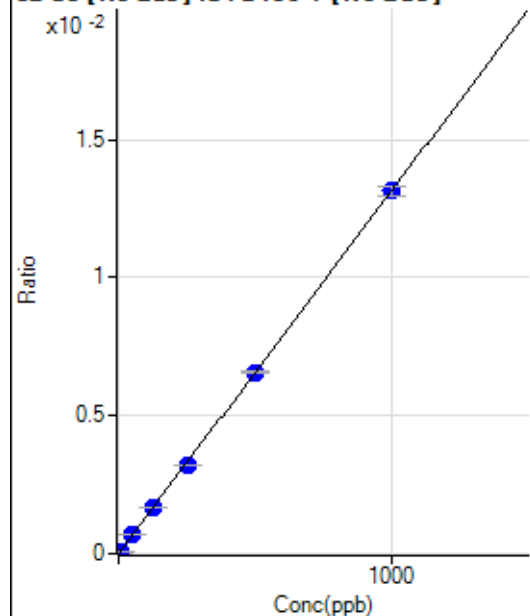
$$DL = 0.6043$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			80894.78		P	2.9
2	☐			79087.43		P	4.2
3	☐			75847.39		P	3.2
4	☐			77763.27		P	1.8
5	☐			76639.57		P	1.2
6	☐			75098.66		P	1.9
7	☐			73995.69		P	0.6
8	☐			72326.08		P	1.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-92.59	0.0000	P	-258.
2	☐	5.000	5.094	1232.05	0.0001	P	7.0
3	☐	50.000	54.643	13974.15	0.0007	P	2.1
4	☐	125.000	127.999	33202.08	0.0017	P	2.7
5	☐	250.000	245.087	64583.22	0.0032	P	0.7
6	☐	500.000	500.718	131724.98	0.0066	P	1.8
7	☐	1000.000	1000.262	268983.59	0.0131	P	2.4
8	☐			257.73	0.0000	P	71.5

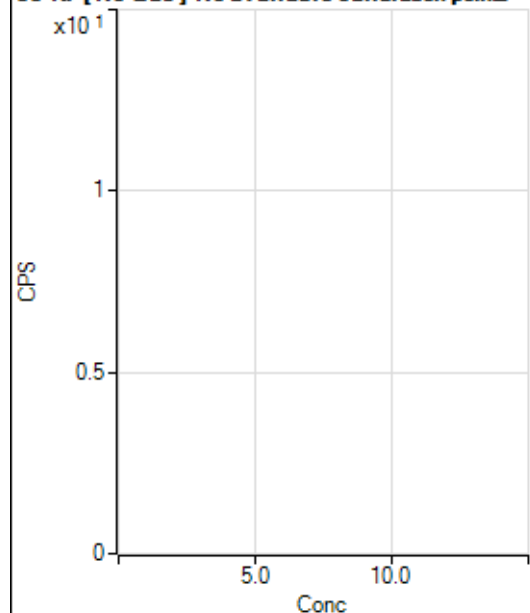
$$y = 1.3135E-005 * x - 4.7551E-006$$

$$R = 1.0000$$

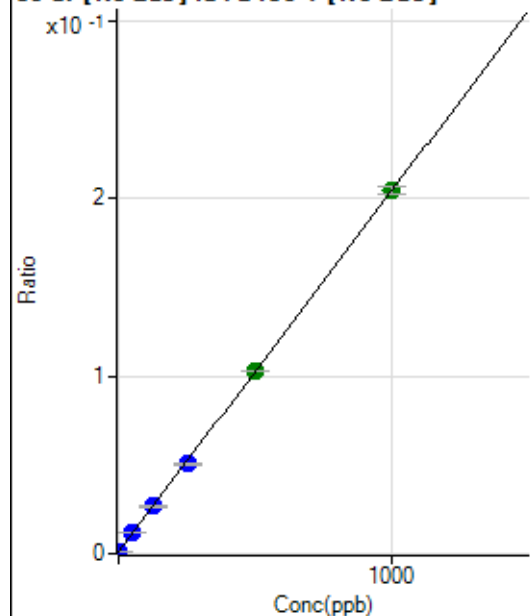
$$DL = 2.811$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14966.52		P	2.3
2	☐			15153.37		P	0.4
3	☐			14971.52		P	1.7
4	☐			14431.44		P	0.8
5	☐			14485.65		P	0.5
6	☐			14330.10		P	0.9
7	☐			14574.07		P	0.8
8	☐			14027.33		P	2.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	23751.28	0.0012	P	4.8
2	☐	1.000	0.885	27903.49	0.0014	P	3.5
3	☐	50.000	52.895	234302.63	0.0120	P	2.1
4	☐	125.000	125.049	526604.45	0.0266	P	1.3
5	☐	250.000	242.438	1012318.26	0.0504	P	1.2
6	☐	500.000	501.599	2063517.88	0.1029	A	0.4
7	☐	1000.000	1000.940	4182265.20	0.2042	A	2.1
8	☐			48128.02	0.0024	P	3.4

$$y = 2.0278\text{E-}004 * x + 0.0012$$

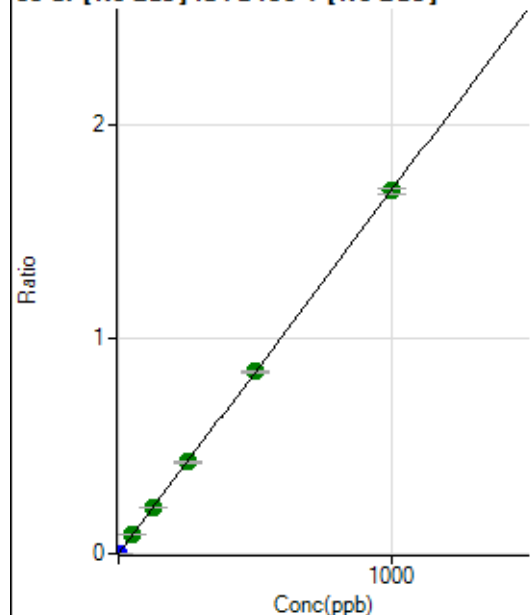
$$R = 1.0000$$

$$DL = 0.8694$$

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	238.90	0.0000	P	26.4
2	☐	1.000	0.978	33056.69	0.0017	P	0.5
3	☐	50.000	53.723	1781458.46	0.0909	A	1.3
4	☐	125.000	128.791	4314714.42	0.2178	A	1.2
5	☐	250.000	251.702	8552645.42	0.4257	A	0.7
6	☐	500.000	501.075	16987919.13	0.8474	A	1.5
7	☐	1000.000	998.377	34583821.61	1.6884	A	1.3
8	☐			231526.37	0.0116	P	2.1

$$y = 0.0017 * x + 1.2371E-005$$

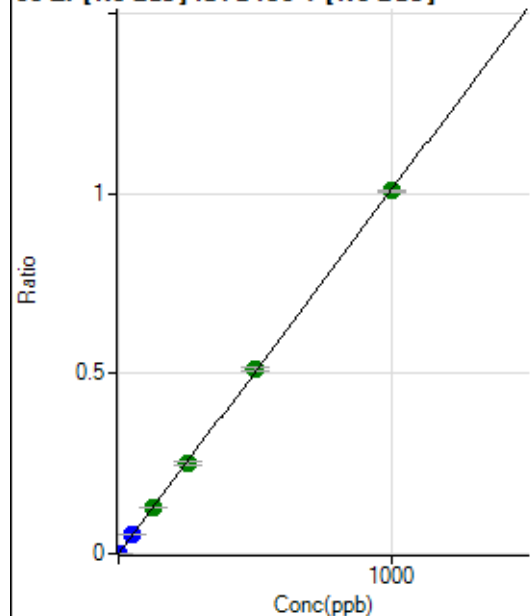
$$R = 1.0000$$

$$DL = 0.005788$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	833.38	0.0000	P	5.8
2	☐	1.000	0.942	19753.40	0.0010	P	2.1
3	☐	50.000	54.419	1080008.79	0.0551	P	2.0
4	☐	125.000	128.023	2566576.21	0.1296	A	0.9
5	☐	250.000	247.633	5033603.20	0.2506	A	3.8
6	☐	500.000	506.000	10261685.39	0.5120	A	2.1
7	☐	1000.000	996.993	20664752.20	1.0088	A	0.7
8	☐			10301.30	0.0005	P	2.3

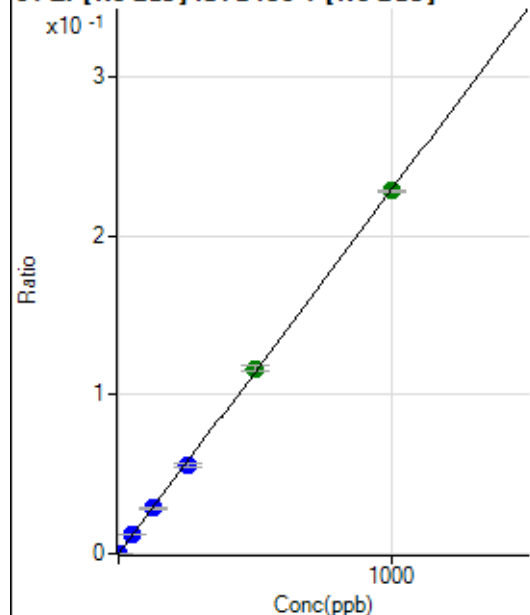
$$y = 0.0010 * x + 4.3041E-005$$

$$R = 1.0000$$

$$DL = 0.007363$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	183.34	0.0000	P	7.2
2	☐	1.000	0.939	4450.86	0.0002	P	8.1
3	☐	50.000	53.599	240685.72	0.0123	P	3.4
4	☐	125.000	124.287	563953.60	0.0285	P	2.0
5	☐	250.000	243.415	1119696.53	0.0557	P	2.8
6	☐	500.000	508.142	2332055.71	0.1164	A	3.0
7	☐	1000.000	997.485	4678803.97	0.2284	A	0.5
8	☐			2161.34	0.0001	P	10.9

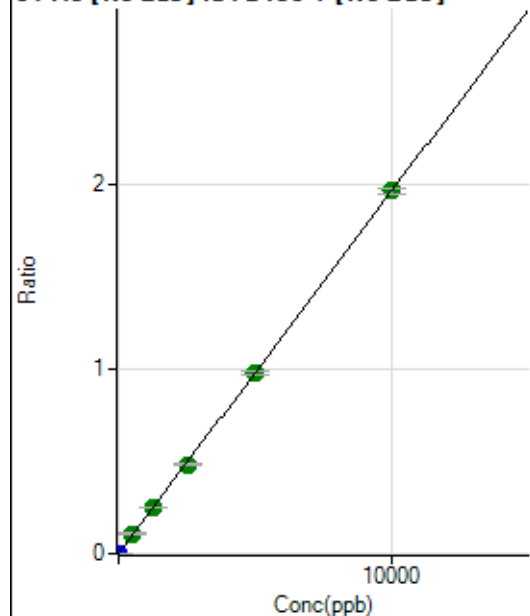
$$y = 2.2898\text{E-}004 * x + 9.4725\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.00894$$

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	277.79	0.0000	P	26.2
2	☐	5.000	5.889	23228.30	0.0012	P	1.6
3	☐	500.000	550.853	2120918.95	0.1082	A	3.4
4	☐	1250.000	1270.045	4942723.68	0.2495	A	1.0
5	☐	2500.000	2446.086	9653490.84	0.4806	A	2.2
6	☐	5000.000	4991.626	19653413.46	0.9806	A	2.7
7	☐	10000.000	10012.617	40292878.68	1.9670	A	1.7
8	☐			13037.12	0.0007	P	3.4

$$y = 1.9645\text{E-}004 * x + 1.4381\text{E-}005$$

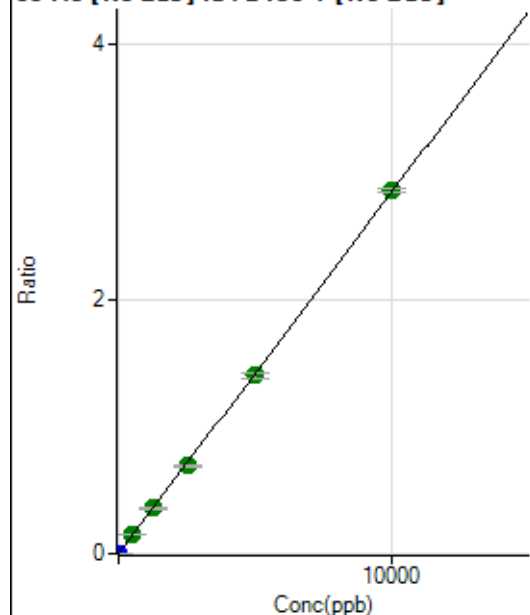
$$R = 1.0000$$

$$DL = 0.05761$$

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	47.22	0.0000	P	27.0
2	☐	5.000	5.067	28574.46	0.0014	P	1.8
3	☐	500.000	544.733	3030603.34	0.1547	A	4.1
4	☐	1250.000	1257.121	7071620.90	0.3569	A	2.7
5	☐	2500.000	2434.448	13884859.68	0.6911	A	2.4
6	☐	5000.000	4927.628	28037172.15	1.3989	A	2.9
7	☐	10000.000	10049.447	58439487.42	2.8530	A	1.2
8	☐			14104.71	0.0007	P	4.3

$$y = 2.8390E-004 * x + 2.4396E-006$$

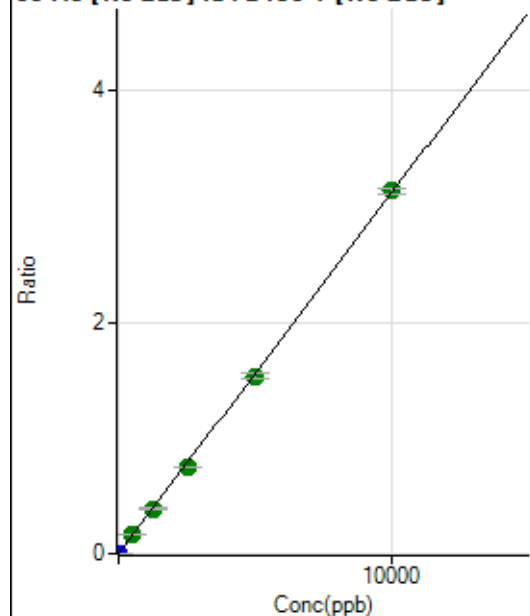
$$R = 0.9999$$

$$DL = 0.006962$$

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	363.90	0.0000	P	17.3
2	☐	5.000	5.130	32107.35	0.0016	P	2.4
3	☐	500.000	552.413	3378448.42	0.1723	A	1.1
4	☐	1250.000	1250.237	7726676.39	0.3900	A	2.2
5	☐	2500.000	2415.512	15140271.87	0.7535	A	0.4
6	☐	5000.000	4928.215	30810567.36	1.5374	A	3.0
7	☐	10000.000	10054.364	64248745.19	3.1364	A	1.8
8	☐			48330.70	0.0024	P	1.5

$$y = 3.1195E-004 * x + 1.8848E-005$$

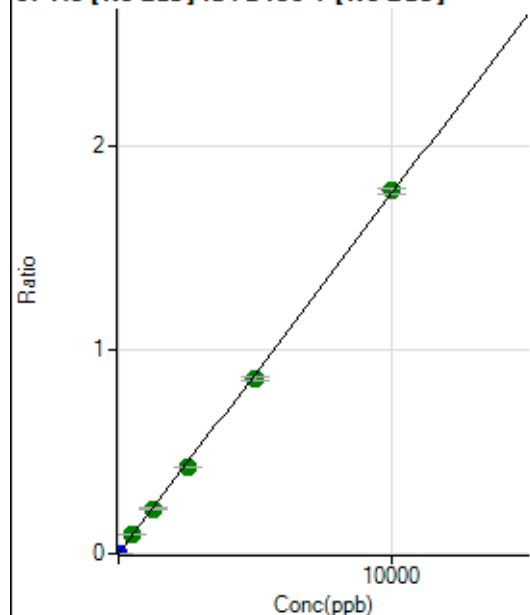
$$R = 0.9999$$

$$DL = 0.03135$$

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	30.56	0.0000	P	79.7
2	☐	5.000	4.913	17188.89	0.0009	P	3.5
3	☐	500.000	539.369	1862236.09	0.0950	A	2.6
4	☐	1250.000	1247.738	4354640.55	0.2198	A	1.6
5	☐	2500.000	2405.998	8513989.69	0.4238	A	1.9
6	☐	5000.000	4878.512	17223804.38	0.8593	A	2.1
7	☐	10000.000	10082.559	36382777.90	1.7760	A	1.4
8	☐			8500.07	0.0004	P	0.6

$$y = 1.7615E-004 * x + 1.5875E-006$$

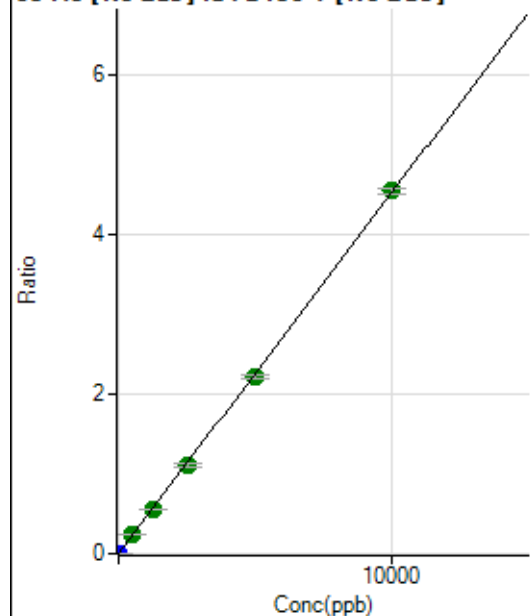
$$R = 0.9998$$

$$DL = 0.02155$$

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	86.11	0.0000	P	29.0
2	☐	5.000	4.942	44424.88	0.0022	P	1.2
3	☐	500.000	527.786	4681159.78	0.2388	A	1.0
4	☐	1250.000	1244.412	11153897.65	0.5630	A	1.0
5	☐	2500.000	2449.814	22260925.50	1.1084	A	3.2
6	☐	5000.000	4893.132	44369573.56	2.2138	A	2.5
7	☐	10000.000	10065.290	93274559.03	4.5538	A	1.9
8	☐			20304.22	0.0010	P	5.3

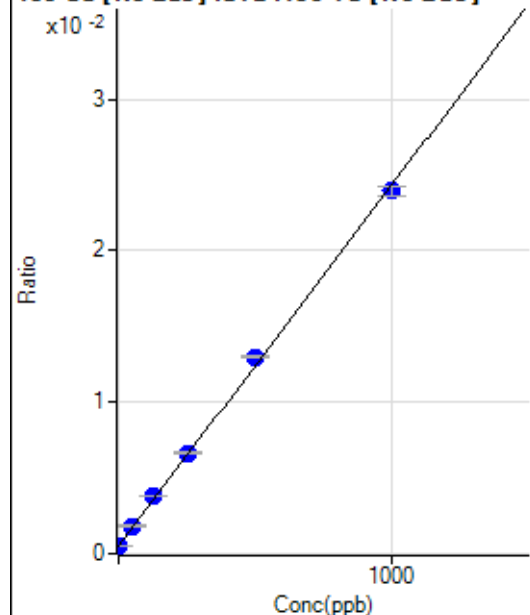
$$y = 4.5242E-004 * x + 4.4339E-006$$

$$R = 0.9999$$

$$DL = 0.008524$$

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	6209.94	0.0005	P	3.1
2	☐	1.000	0.202	6485.06	0.0005	P	3.8
3	☐	50.000	55.562	23492.89	0.0018	P	3.4
4	☐	125.000	138.034	47847.94	0.0038	P	1.4
5	☐	250.000	257.384	86335.70	0.0066	P	1.6
6	☐	500.000	524.251	169788.42	0.0130	P	0.8
7	☐	1000.000	984.122	329614.30	0.0240	P	2.6
8	☐			6112.64	0.0005	P	2.0

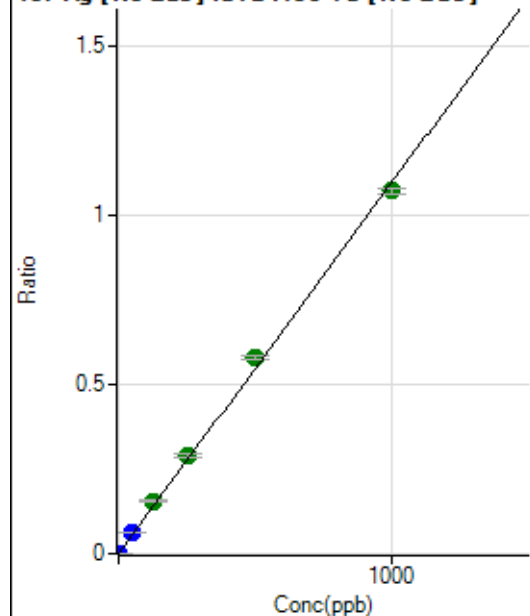
$$y = 2.3839\text{E-}005 * x + 4.9419\text{E-}004$$

$$R = 0.9995$$

$$DL = 1.907$$

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	222.23	0.0000	P	12.4
2	☐	1.000	1.050	15194.93	0.0012	P	5.5
3	☐	50.000	57.527	815536.76	0.0631	P	1.4
4	☐	125.000	141.840	1967638.72	0.1556	A	2.5
5	☐	250.000	264.859	3784078.99	0.2905	A	3.1
6	☐	500.000	530.481	7603301.99	0.5819	A	1.8
7	☐	1000.000	978.563	14772461.09	1.0734	A	1.9
8	☐			4348.04	0.0003	P	6.2

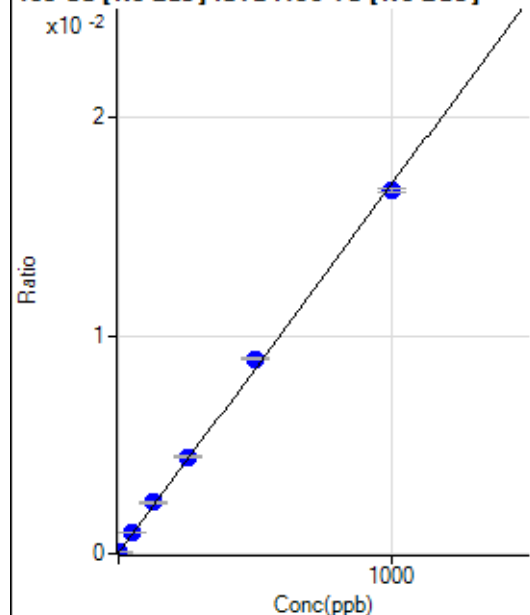
$$y = 0.0011 * x + 1.7695\text{E-}005$$

$$R = 0.9991$$

$$DL = 0.005979$$

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	372.24	0.0000	P	10.0
2	☐	1.000	1.018	608.36	0.0000	P	6.8
3	☐	50.000	54.886	12369.59	0.0010	P	2.5
4	☐	125.000	137.031	29662.65	0.0023	P	1.3
5	☐	250.000	260.732	57783.59	0.0044	P	2.4
6	☐	500.000	525.889	116566.29	0.0089	P	1.2
7	☐	1000.000	982.624	229022.83	0.0166	P	1.1
8	☐			315.28	0.0000	P	7.6

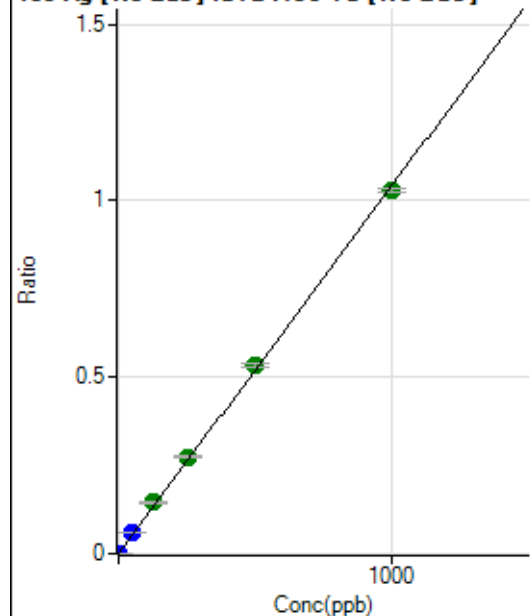
$$y = 1.6906E-005 * x + 2.9635E-005$$

$$R = 0.9994$$

$$DL = 0.5265$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	147.23	0.0000	P	54.3
2	☐	1.000	1.027	14043.72	0.0011	P	3.6
3	☐	50.000	57.731	776523.22	0.0601	P	2.3
4	☐	125.000	139.784	1838868.51	0.1455	A	5.2
5	☐	250.000	261.986	3551471.39	0.2727	A	2.2
6	☐	500.000	515.243	7008226.72	0.5364	A	2.0
7	☐	1000.000	987.148	14143556.39	1.0276	A	1.0
8	☐			4223.00	0.0003	P	7.9

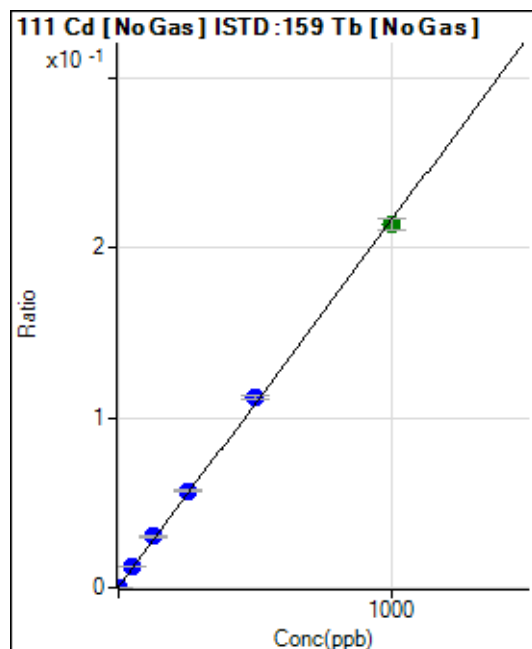
$$y = 0.0010 * x + 1.1654E-005$$

$$R = 0.9997$$

$$DL = 0.01823$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4155.84	0.0003	P	2.7
2	☐	1.000	1.049	7243.27	0.0006	P	2.2
3	☐	50.000	55.880	160215.09	0.0124	P	2.9
4	☐	125.000	138.308	381857.75	0.0302	P	3.2
5	☐	250.000	261.998	741291.76	0.0569	P	1.4
6	☐	500.000	515.905	1460447.73	0.1118	P	2.2
7	☐	1000.000	987.090	2938305.48	0.2136	A	3.1
8	☐			4444.27	0.0003	P	1.4

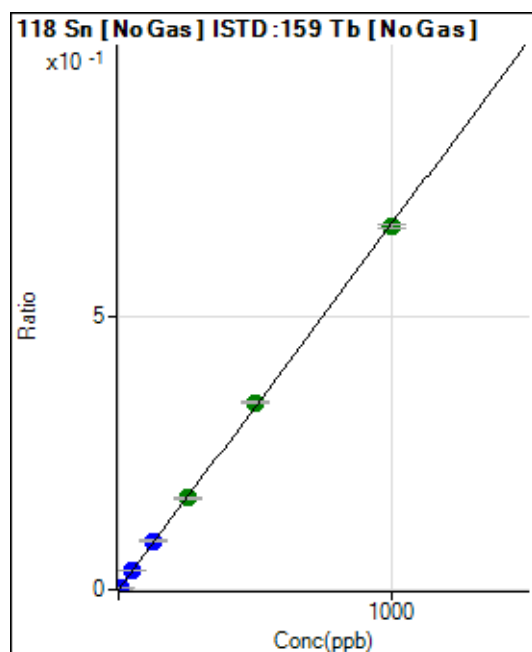
$$y = 2.1603\text{E-}004 * x + 3.3071\text{E-}004$$

$$R = 0.9997$$

$$DL = 0.1224$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1127.86	0.0001	P	4.3
2	☐	5.000	4.972	44347.86	0.0034	P	3.8
3	☐	50.000	54.198	469090.10	0.0363	P	1.9
4	☐	125.000	133.568	1129216.12	0.0893	P	2.8
5	☐	250.000	251.839	2192288.37	0.1684	A	1.7
6	☐	500.000	512.366	4474472.24	0.3424	A	1.7
7	☐	1000.000	992.076	9124361.66	0.6630	A	1.0
8	☐			5737.47	0.0004	P	0.9

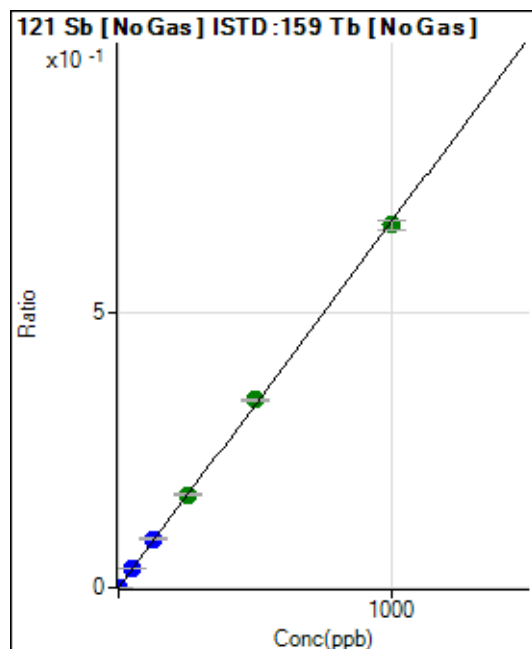
$$y = 6.6818\text{E-}004 * x + 8.9764\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.01716$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	58.34	0.0000	P	38.2
2	☐	2.000	1.926	16669.04	0.0013	P	2.6
3	☐	50.000	54.409	466530.82	0.0361	P	0.4
4	☐	125.000	132.592	1112116.74	0.0880	P	2.2
5	☐	250.000	253.553	2190574.20	0.1682	A	1.0
6	☐	500.000	513.353	4450688.73	0.3406	A	0.9
7	☐	1000.000	991.266	9049150.20	0.6577	A	2.3
8	☐			5834.76	0.0004	P	9.7

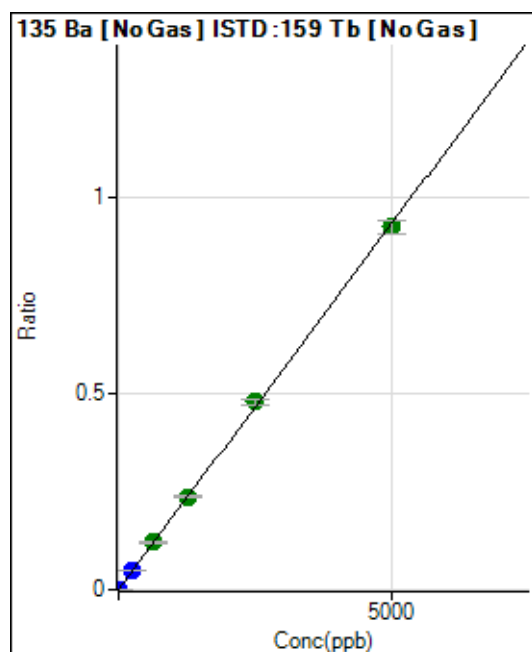
$$y = 6.6344\text{E-}004 * x + 4.6441\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.008023$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19.45	0.0000	P	25.3
2	☐	10.000	9.360	22700.35	0.0017	P	0.8
3	☐	250.000	265.550	639422.62	0.0495	P	3.1
4	☐	625.000	650.290	1532506.10	0.1212	A	2.1
5	☐	1250.000	1274.241	3093190.87	0.2375	A	1.6
6	☐	2500.000	2564.031	6244344.06	0.4779	A	2.5
7	☐	5000.000	4957.987	12715393.34	0.9242	A	3.7
8	☐			5823.64	0.0004	P	3.7

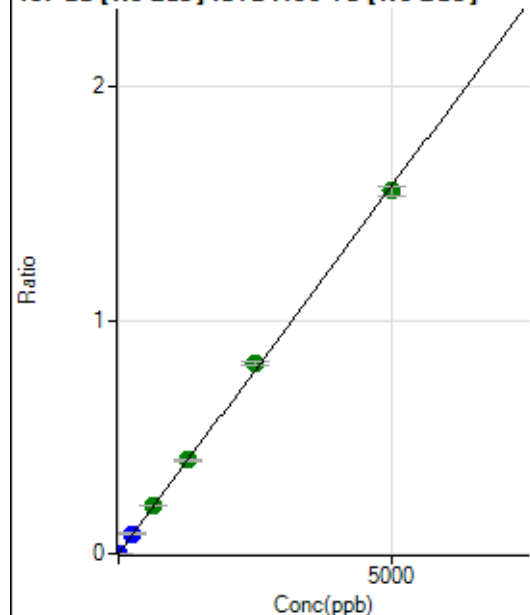
$$y = 1.8640\text{E-}004 * x + 1.5485\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.006299$$

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	30.56	0.0000	P	57.3
2	☐	10.000	9.688	39673.79	0.0031	P	3.6
3	☐	250.000	273.562	1112684.81	0.0861	P	3.0
4	☐	625.000	655.560	2609008.67	0.2064	A	3.0
5	☐	1250.000	1270.767	5210156.84	0.4001	A	1.9
6	☐	2500.000	2600.772	10700006.23	0.8189	A	2.2
7	☐	5000.000	4939.425	21398344.23	1.5552	A	2.7
8	☐			10123.48	0.0008	P	7.1

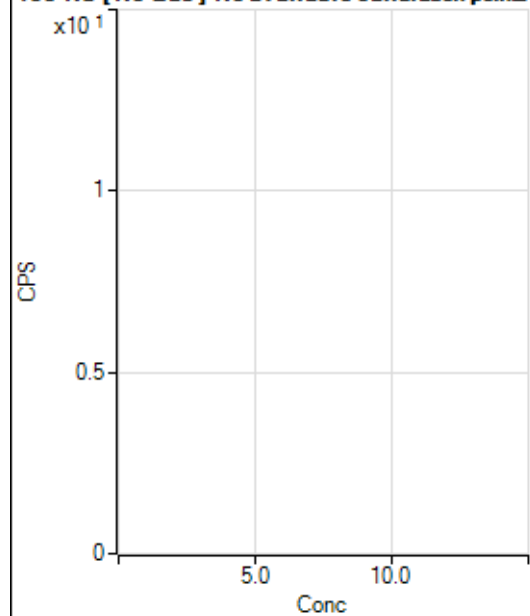
$$y = 3.1486E-004 * x + 2.4386E-006$$

$$R = 0.9997$$

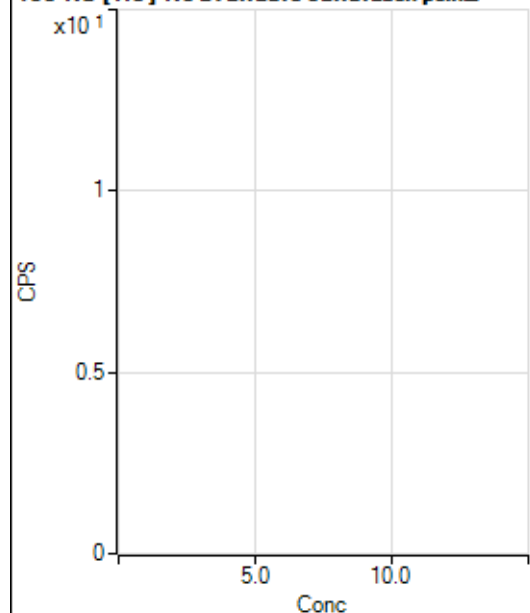
$$DL = 0.01332$$

Weight: <None>

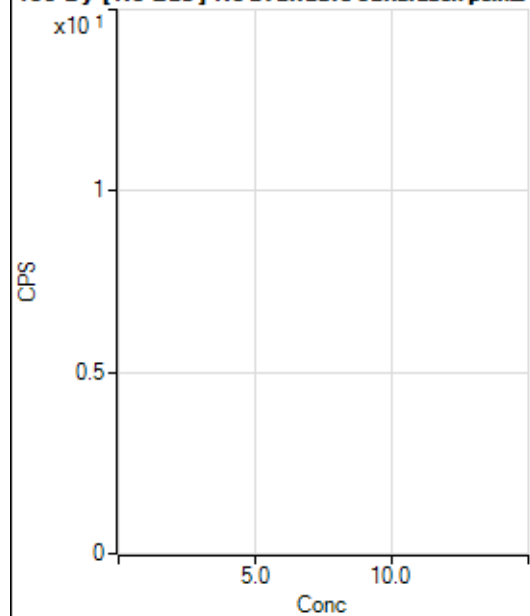
Min Conc: 0

150 Nd [No Gas] No available calibration points

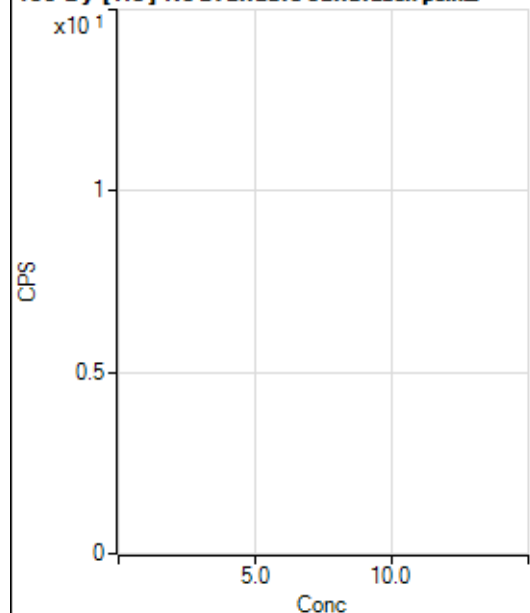
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			11.11		P	34.6
2	☐			15.56		P	65.5
3	☐			64.45		P	31.6
4	☐			102.23		P	26.4
5	☐			222.23		P	26.9
6	☐			433.35		P	2.7
7	☐			853.38		P	2.8
8	☐			131.11		P	7.8

150 Nd [He] No available calibration points

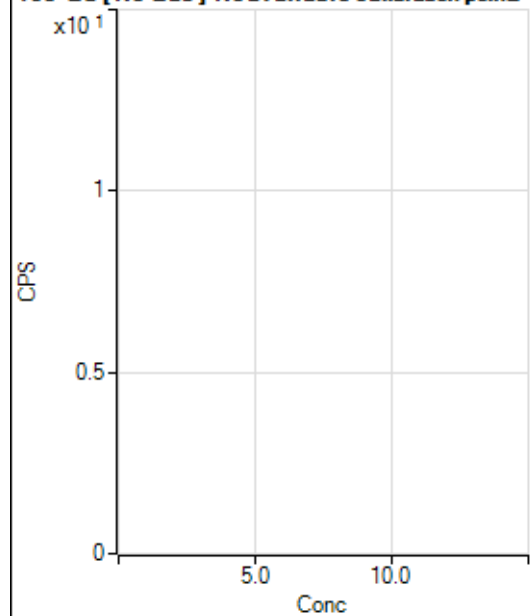
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			2.22		P	173.2
3	☐			1.11		P	173.2
4	☐			11.11		P	75.5
5	☐			8.89		P	57.3
6	☐			25.56		P	30.1
7	☐			50.00		P	17.6
8	☐			28.89		P	43.7

156 Dy [No Gas] No available calibration points

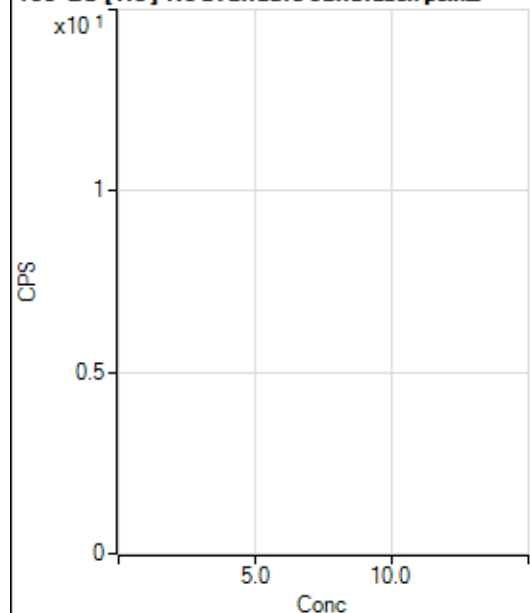
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.0
2	☐			5.55		P	86.6
3	☐			41.67		P	34.6
4	☐			61.11		P	20.8
5	☐			161.12		P	13.0
6	☐			347.24		P	19.4
7	☐			497.25		P	11.2
8	☐			1188.98		P	7.1

156 Dy [He] No available calibration points

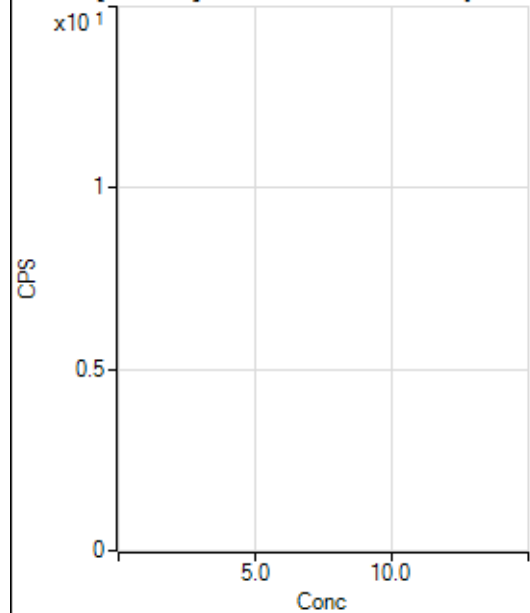
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	43.3
2	☐			3.33		P	0.0
3	☐			15.55		P	44.6
4	☐			20.00		P	16.7
5	☐			42.22		P	4.6
6	☐			91.11		P	11.2
7	☐			241.12		P	19.6
8	☐			327.79		P	8.9

160 Gd [No Gas] Noavailable calibration poin_

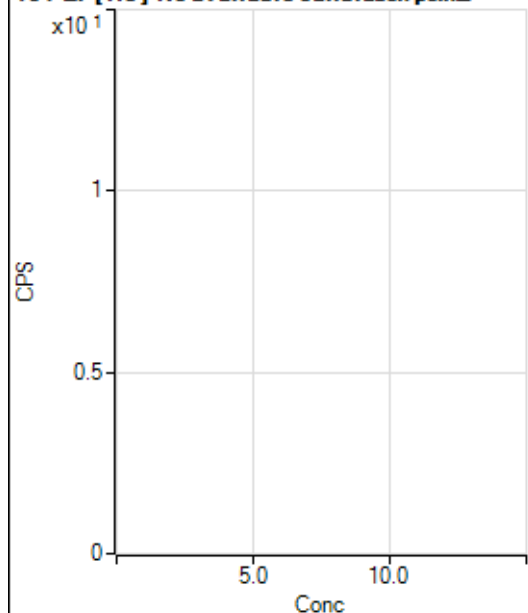
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			75.00		P	44.4
2	☐			136.12		P	18.7
3	☐			113.89		P	40.3
4	☐			141.67		P	10.2
5	☐			200.01		P	25.3
6	☐			311.12		P	5.6
7	☐			466.69		P	6.2
8	☐			811.16		P	15.0

160 Gd [He] No available calibration points

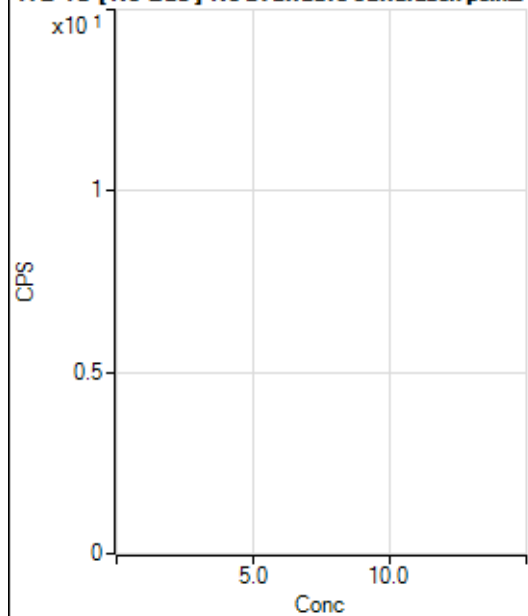
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			77.78		P	29.2
2	☐			68.89		P	19.5
3	☐			94.45		P	16.7
4	☐			105.56		P	44.8
5	☐			133.34		P	10.9
6	☐			166.67		P	10.0
7	☐			237.78		P	18.5
8	☐			432.23		P	7.0

164 Er [No Gas] No available calibration points

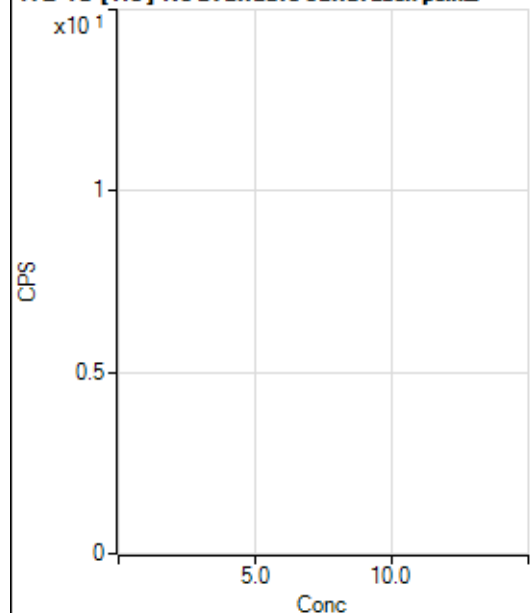
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			86.11		P	48.7
2	☐			80.56		P	36.3
3	☐			94.45		P	48.6
4	☐			108.34		P	20.4
5	☐			125.01		P	6.7
6	☐			147.22		P	3.3
7	☐			219.45		P	19.5
8	☐			186.12		P	11.3

164 Er [He] No available calibration points

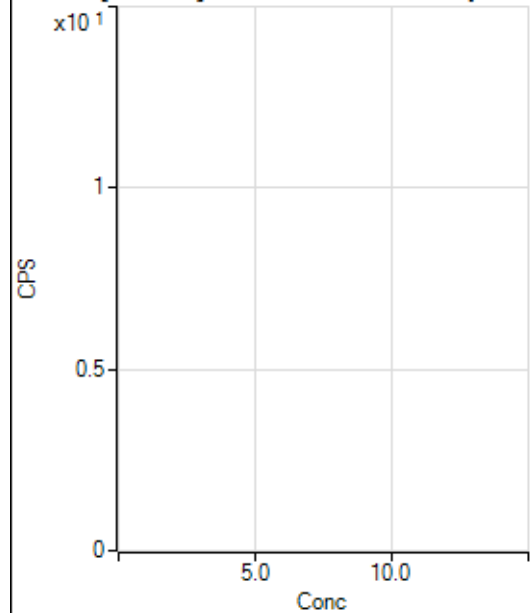
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18.89		P	44.4
2	☐			37.78		P	44.4
3	☐			32.22		P	26.0
4	☐			42.22		P	25.4
5	☐			34.44		P	40.3
6	☐			51.11		P	30.8
7	☐			71.11		P	11.8
8	☐			60.00		P	28.9

172 Yb [No Gas] No available calibration points

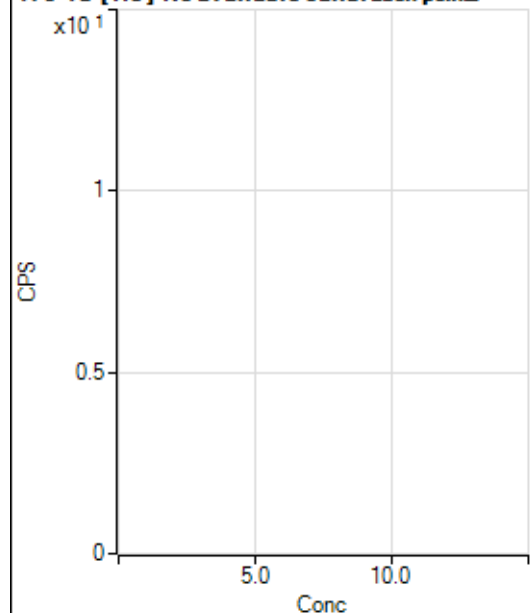
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			86.11		P	45.7
2	☐			63.89		P	52.7
3	☐			66.67		P	25.0
4	☐			88.89		P	39.0
5	☐			97.22		P	43.1
6	☐			80.56		P	43.1
7	☐			136.12		P	40.8
8	☐			194.45		P	12.4

172 Yb [He] No available calibration points

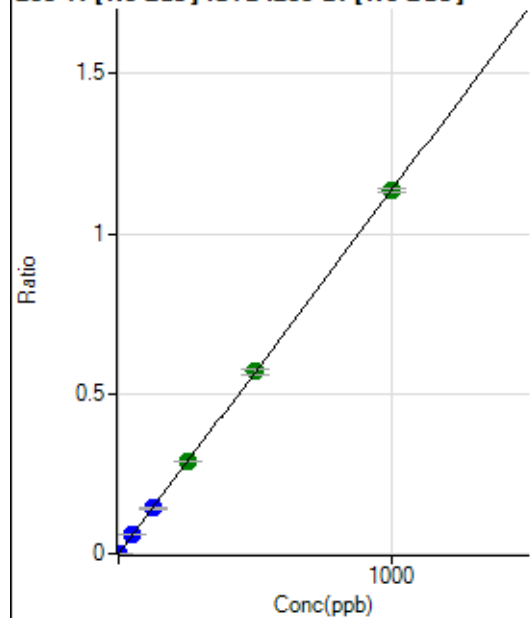
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			42.59		P	30.1
2	☐			24.08		P	53.3
3	☐			29.63		P	39.0
4	☐			44.45		P	21.7
5	☐			24.08		P	26.6
6	☐			66.67		P	16.7
7	☐			50.00		P	44.4
8	☐			114.82		P	41.2

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1666.82		P	5.9
2	☐			1822.41		P	10.3
3	☐			3597.84		P	1.7
4	☐			6071.05		P	3.3
5	☐			10460.00		P	2.3
6	☐			19061.62		P	3.0
7	☐			38109.03		P	3.5
8	☐			1902.98		P	15.3

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5879.22		P	3.8
2	☐			5766.16		P	2.0
3	☐			6375.72		P	5.4
4	☐			7417.06		P	5.8
5	☐			9412.80		P	4.1
6	☐			12537.65		P	2.9
7	☐			20352.99		P	1.4
8	☐			5947.74		P	6.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	188.90	0.0000	P	23.5
2	☐	1.000	0.987	8016.65	0.0011	P	6.1
3	☐	50.000	52.460	423359.59	0.0596	P	2.2
4	☐	125.000	126.189	1021401.40	0.1434	P	3.9
5	☐	250.000	254.267	2063939.22	0.2889	A	1.2
6	☐	500.000	500.755	4152607.51	0.5689	A	2.8
7	☐	1000.000	998.284	8448093.16	1.1342	A	1.1
8	☐			1636.26	0.0003	P	8.7

$$y = 0.0011 * x + 2.7121E-005$$

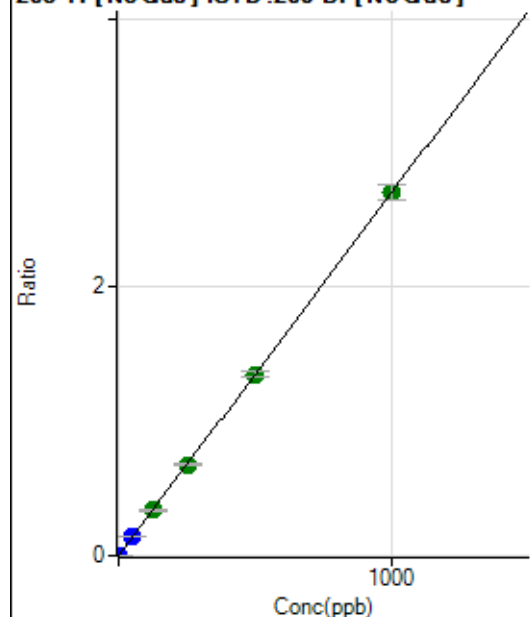
$$R = 1.0000$$

$$DL = 0.01686$$

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	444.47	0.0001	P	14.8
2	☐	1.000	0.962	18630.67	0.0027	P	0.9
3	☐	50.000	53.561	1029405.67	0.1450	P	2.5
4	☐	125.000	124.548	2400878.26	0.3370	A	2.7
5	☐	250.000	250.349	4838912.00	0.6773	A	1.7
6	☐	500.000	499.938	9869945.27	1.3525	A	3.7
7	☐	1000.000	999.822	20144071.28	2.7049	A	4.1
8	☐			3892.39	0.0006	P	8.3

$$y = 0.0027 * x + 6.3851E-005$$

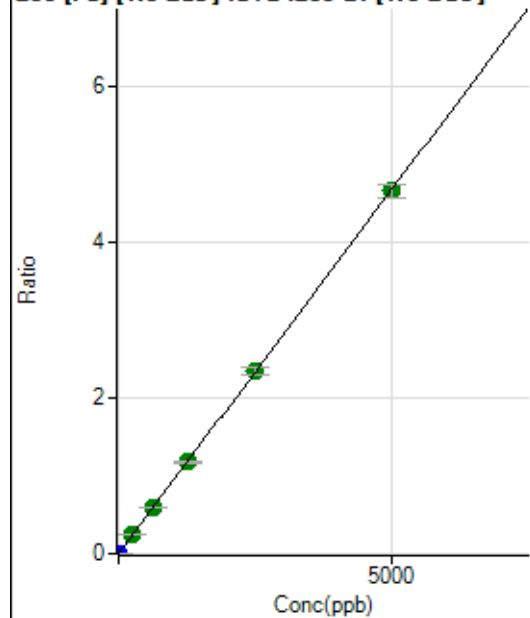
$$R = 1.0000$$

$$DL = 0.01045$$

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	1111.18	0.0002	P	6.6
2	☐	1.000	0.971	7455.98	0.0011	P	4.2
3	☐	250.000	262.119	1742118.34	0.2453	A	2.8
4	☐	625.000	634.554	4229184.06	0.5937	A	3.1
5	☐	1250.000	1257.421	8403224.84	1.1762	A	3.3
6	☐	2500.000	2518.971	17192254.32	2.3562	A	4.2
7	☐	5000.000	4986.859	34753428.56	4.6644	A	4.0
8	☐			6905.65	0.0011	P	1.9

$$y = 9.3531E-004 * x + 1.5946E-004$$

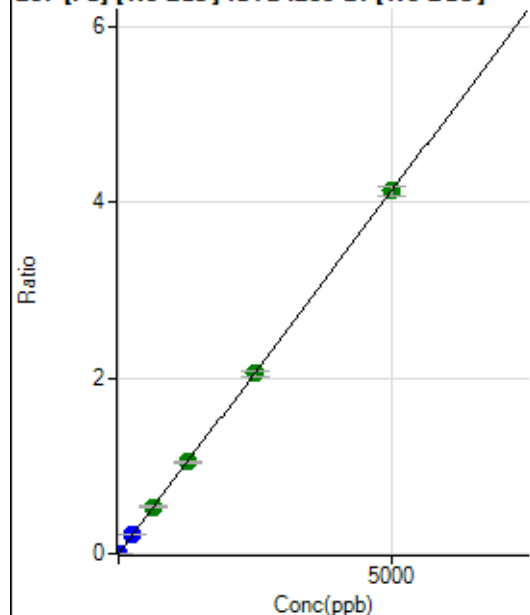
$$R = 1.0000$$

$$DL = 0.03392$$

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	887.09	0.0001	P	7.9
2	☐	1.000	0.961	6425.81	0.0009	P	1.2
3	☐	250.000	255.092	1494257.53	0.2104	P	2.1
4	☐	625.000	646.920	3800996.82	0.5335	A	2.5
5	☐	1250.000	1261.640	7432580.95	1.0403	A	3.5
6	☐	2500.000	2484.811	14950867.12	2.0488	A	3.6
7	☐	5000.000	5001.690	30716561.57	4.1240	A	2.4
8	☐			5868.11	0.0009	P	3.1

$$y = 8.2449\text{E-}004 * x + 1.2733\text{E-}004$$

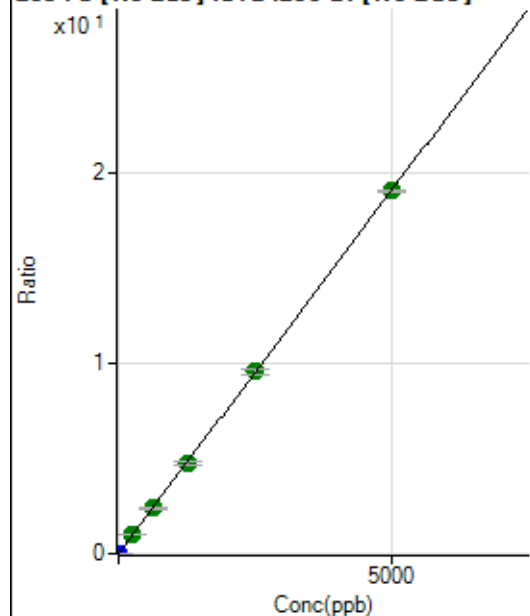
$$R = 1.0000$$

$$DL = 0.03668$$

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	4237.40	0.0006	P	3.1
2	☐	1.000	0.946	29471.15	0.0042	P	2.0
3	☐	250.000	257.623	6989021.18	0.9842	A	0.9
4	☐	625.000	625.825	17028322.69	2.3899	A	1.7
5	☐	1250.000	1243.601	33924390.69	4.7485	A	3.8
6	☐	2500.000	2510.331	69946458.86	9.5847	A	3.3
7	☐	5000.000	4995.950	142104980.7	19.0745	A	0.6
8	☐			27215.39	0.0043	P	1.1

$$y = 0.0038 * x + 6.0784\text{E-}004$$

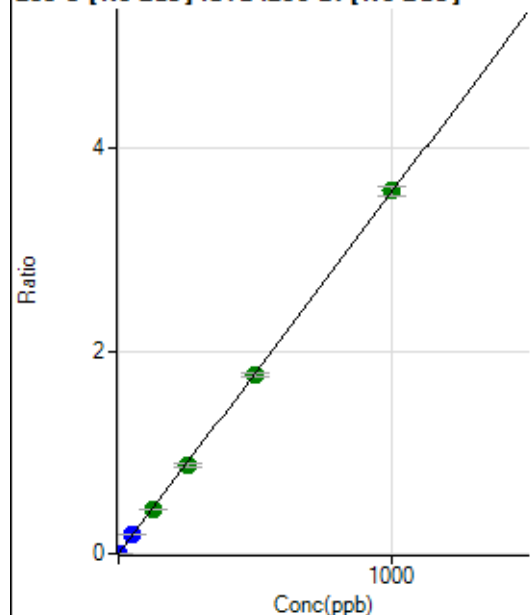
$$R = 1.0000$$

$$DL = 0.01504$$

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	0.00	0.0000	P	
2	☐	1.000	0.907	22618.25	0.0032	P	4.0
3	☐	50.000	51.917	1315735.93	0.1853	P	2.0
4	☐	125.000	123.671	3145926.44	0.4414	A	2.1
5	☐	250.000	244.281	6228105.39	0.8718	A	3.3
6	☐	500.000	494.911	12890065.57	1.7663	A	3.2
7	☐	1000.000	1004.045	26688540.36	3.5833	A	2.5
8	☐			1883.52	0.0003	P	7.6

$$y = 0.0036 * x + 0.0000E+000$$

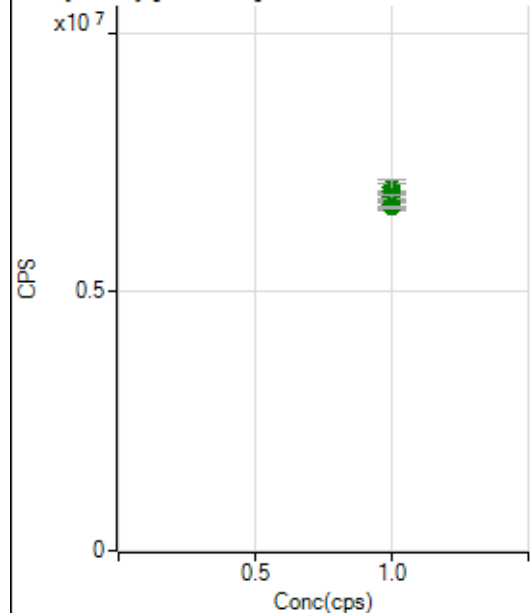
$$R = 1.0000$$

$$DL = 0$$

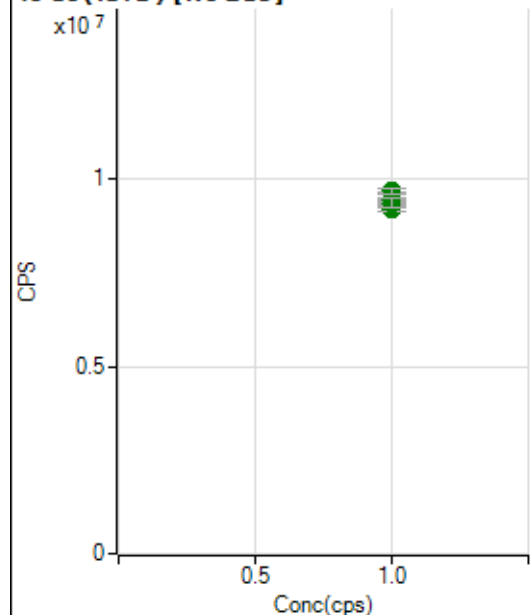
Weight: <None>

Min Conc: 0

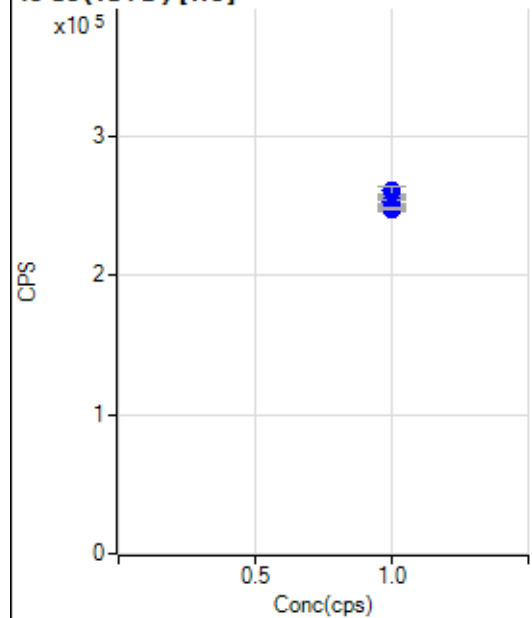
6 Li (ISTD) [No Gas]



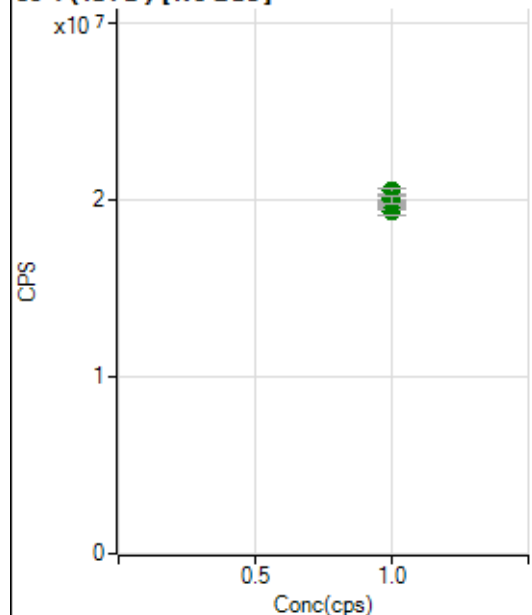
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6689506.84		A	1.1
2	☐	1.000		7004277.29		A	2.0
3	☐	1.000		6747777.69		A	0.5
4	☐	1.000		6822279.57		A	2.5
5	☐	1.000		6958477.96		A	6.2
6	☐	1.000		6646124.66		A	2.5
7	☐	1.000		6830869.80		A	1.2
8	☐	1.000		6629438.05		A	0.9

45 Sc (ISTD) [No Gas]

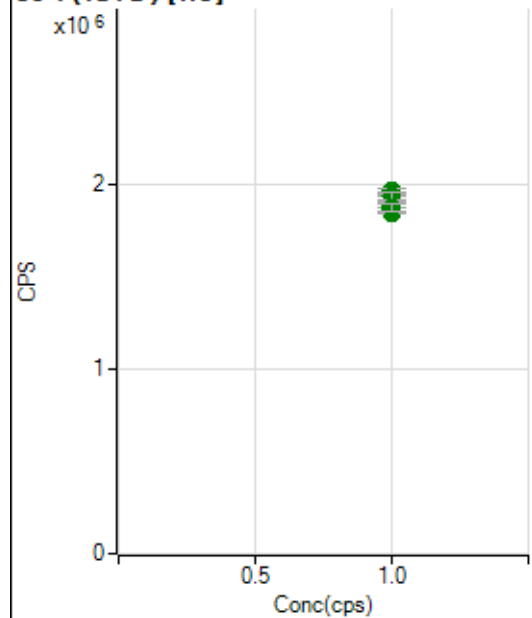
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9190808.20		A	1.5
2	☐	1.000		9432022.71		A	1.7
3	☐	1.000		9394886.87		A	1.1
4	☐	1.000		9440588.54		A	0.9
5	☐	1.000		9472026.39		A	3.7
6	☐	1.000		9463198.54		A	1.3
7	☐	1.000		9692563.12		A	1.9
8	☐	1.000		9375004.45		A	2.2

45 Sc (ISTD) [He]

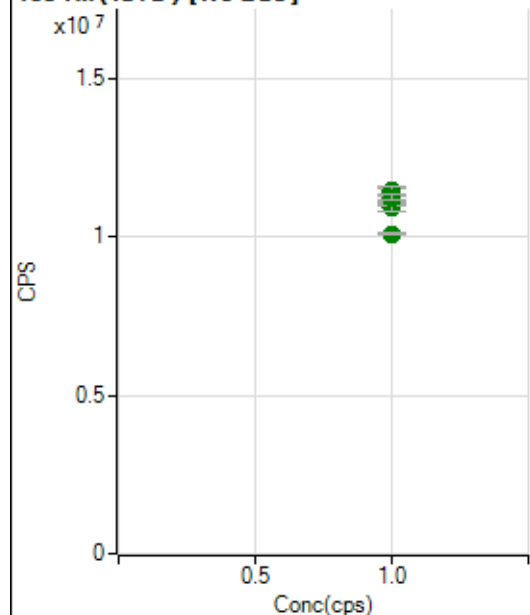
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		247130.05		P	1.1
2	☐	1.000		256787.23		P	1.0
3	☐	1.000		249600.30		P	0.6
4	☐	1.000		248559.86		P	0.4
5	☐	1.000		260988.93		P	2.9
6	☐	1.000		251032.13		P	0.8
7	☐	1.000		252855.85		P	1.1
8	☐	1.000		248475.87		P	0.5

89 Y (ISTD) [No Gas]

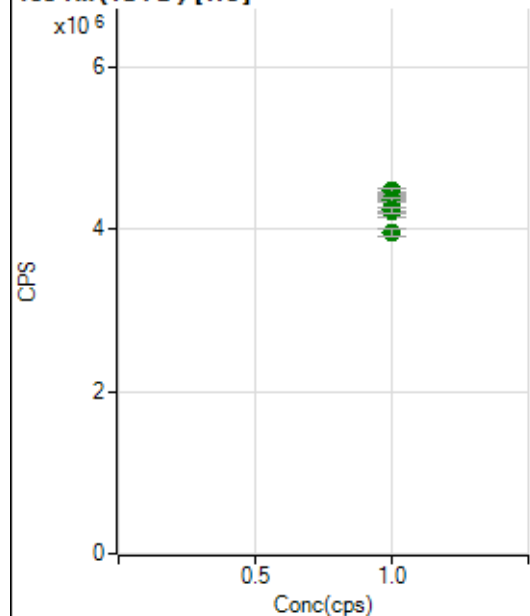
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		19350013.18		A	2.0
2	☐	1.000		19830814.15		A	0.8
3	☐	1.000		19606328.74		A	2.3
4	☐	1.000		19809750.82		A	1.5
5	☐	1.000		20093451.09		A	2.1
6	☐	1.000		20045935.81		A	1.2
7	☐	1.000		20484785.95		A	1.2
8	☐	1.000		19974374.56		A	1.7

89 Y (ISTD) [He]

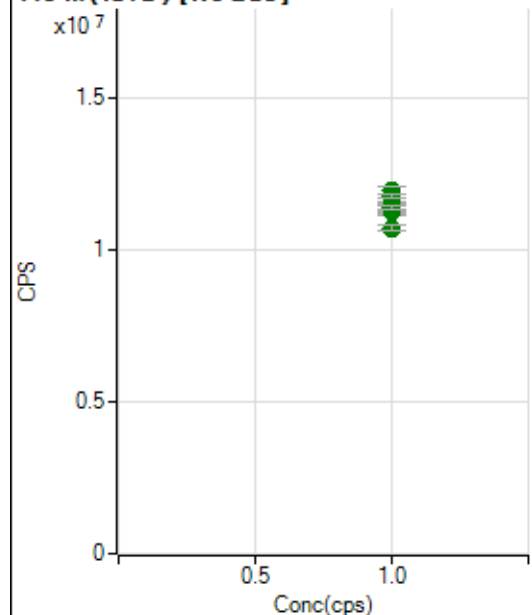
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1859137.92		A	1.3
2	☐	1.000		1942910.47		A	0.6
3	☐	1.000		1846643.88		A	0.9
4	☐	1.000		1872921.07		A	2.1
5	☐	1.000		1963327.16		A	1.4
6	☐	1.000		1887994.45		A	1.6
7	☐	1.000		1932629.42		A	1.9
8	☐	1.000		1872962.28		A	1.9

103 Rh (ISTD) [No Gas]

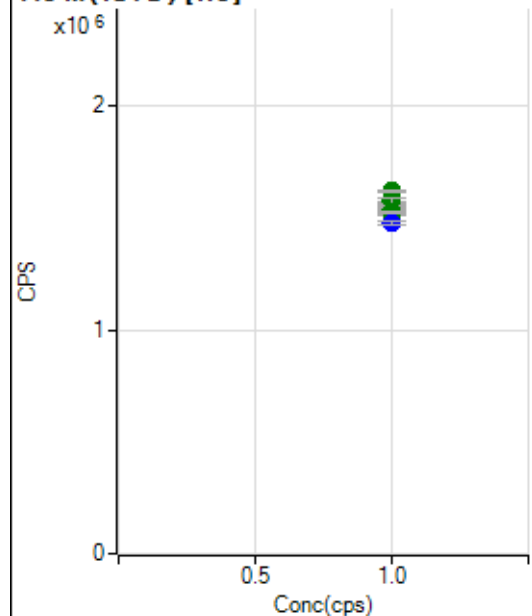
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11214329.33		A	1.6
2	☐	1.000		11427796.87		A	2.0
3	☐	1.000		11444695.74		A	2.5
4	☐	1.000		11100618.13		A	1.1
5	☐	1.000		11230366.83		A	1.8
6	☐	1.000		10898635.23		A	1.5
7	☐	1.000		11237458.41		A	1.8
8	☐	1.000		10089693.98		A	0.5

103 Rh (ISTD) [He]

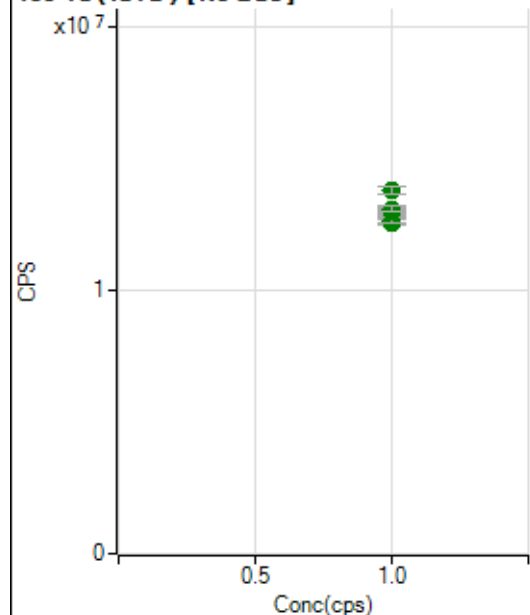
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4353589.35		A	1.0
2	☐	1.000		4429358.96		A	1.2
3	☐	1.000		4224453.62		A	0.4
4	☐	1.000		4238788.44		A	4.4
5	☐	1.000		4475694.79		A	1.3
6	☐	1.000		4358740.98		A	1.2
7	☐	1.000		4236600.63		A	1.4
8	☐	1.000		3960044.63		A	2.5

115 In (ISTD) [No Gas]

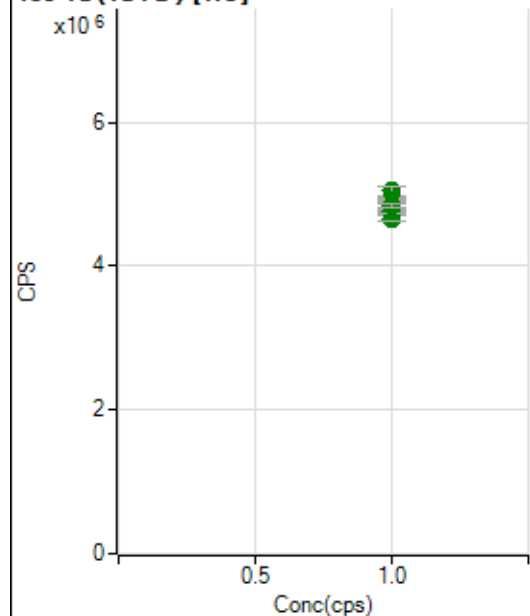
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11551573.94		A	0.6
2	☐	1.000		11941891.43		A	2.2
3	☐	1.000		11437069.37		A	4.7
4	☐	1.000		11345518.74		A	2.2
5	☐	1.000		11265575.46		A	0.3
6	☐	1.000		11392753.92		A	1.6
7	☐	1.000		11770525.06		A	1.3
8	☐	1.000		10716753.68		A	1.5

115 In (ISTD) [He]

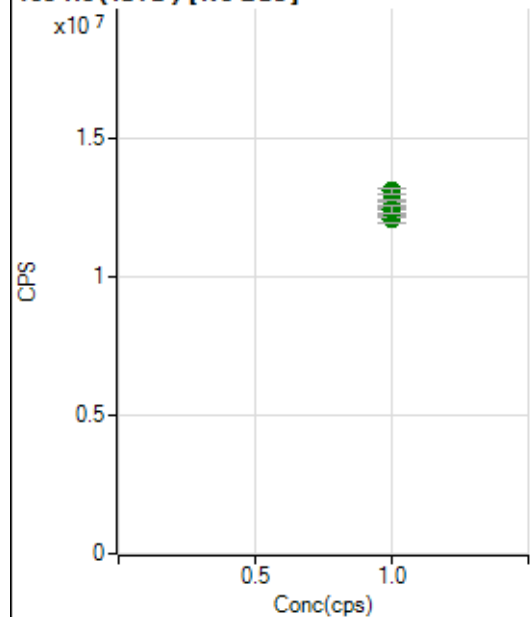
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1546771.12		A	1.7
2	☐	1.000		1580159.51		A	1.0
3	☐	1.000		1537652.28		A	0.7
4	☐	1.000		1519850.85		A	1.4
5	☐	1.000		1620109.31		A	0.7
6	☐	1.000		1569217.06		A	2.3
7	☐	1.000		1525099.14		A	0.8
8	☐	1.000		1477723.20		P	0.9

159 Tb (ISTD) [No Gas]

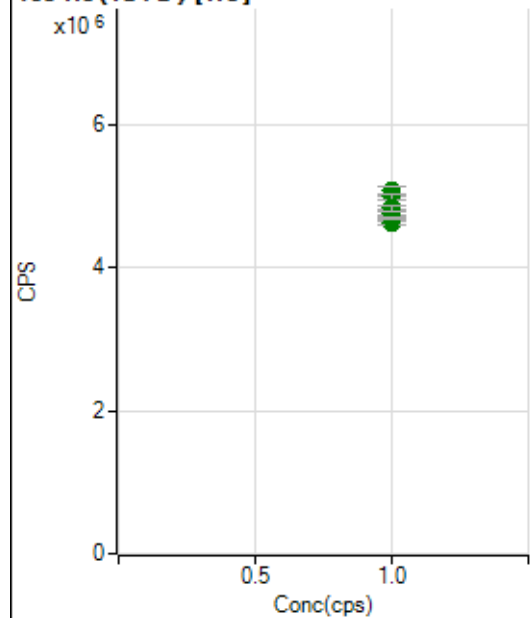
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12569601.20		A	1.5
2	☐	1.000		13000102.45		A	2.0
3	☐	1.000		12922785.36		A	2.1
4	☐	1.000		12644506.62		A	1.9
5	☐	1.000		13022211.61		A	0.7
6	☐	1.000		13069452.72		A	2.1
7	☐	1.000		13764010.91		A	2.1
8	☐	1.000		13089035.92		A	1.8

159 Tb (ISTD) [He]

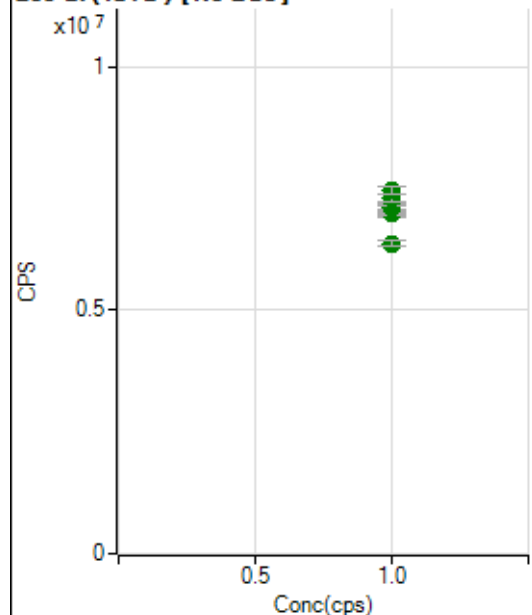
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4664107.64		A	1.9
2	☐	1.000		4741250.38		A	1.2
3	☐	1.000		4667398.47		A	1.2
4	☐	1.000		4760581.74		A	0.8
5	☐	1.000		5046810.45		A	2.6
6	☐	1.000		4921406.25		A	1.3
7	☐	1.000		4875067.08		A	2.4
8	☐	1.000		4834445.80		A	1.0

165 Ho (ISTD) [No Gas]

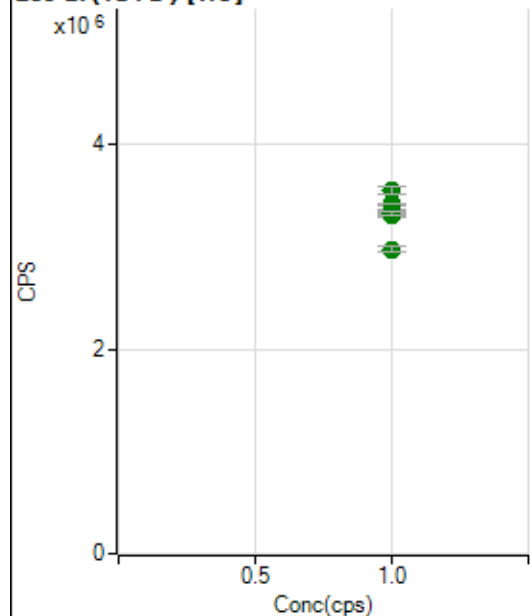
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12157252.62		A	4.3
2	☐	1.000		12062484.30		A	2.0
3	☐	1.000		12237055.83		A	2.3
4	☐	1.000		12284741.25		A	2.8
5	☐	1.000		12404271.63		A	0.5
6	☐	1.000		12719988.48		A	1.0
7	☐	1.000		13074829.03		A	1.3
8	☐	1.000		12394070.24		A	2.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4633529.10		A	1.7
2	☐	1.000		4769123.12		A	1.1
3	☐	1.000		4698370.69		A	1.5
4	☐	1.000		4692502.85		A	0.7
5	☐	1.000		5074372.63		A	3.0
6	☐	1.000		4837283.29		A	1.4
7	☐	1.000		4989760.38		A	2.0
8	☐	1.000		4834210.87		A	1.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6974142.46		A	2.0
2	☐	1.000		6984742.19		A	0.5
3	☐	1.000		7101977.26		A	1.6
4	☐	1.000		7126147.32		A	1.5
5	☐	1.000		7144402.12		A	0.3
6	☐	1.000		7301403.92		A	2.4
7	☐	1.000		7450047.18		A	2.3
8	☐	1.000		6374429.07		A	2.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3352085.71		A	1.6
2	☐	1.000		3420747.04		A	0.7
3	☐	1.000		3316684.05		A	0.4
4	☐	1.000		3369392.31		A	3.1
5	☐	1.000		3550855.36		A	2.2
6	☐	1.000		3335449.29		A	2.5
7	☐	1.000		3330955.09		A	1.1
8	☐	1.000		2976524.64		A	2.0

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8040222-MS.b

Acq. Date-Time 2022-04-02 12:31:04

Report Comment ---

Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		21238	212382.16			0.803	5.000
24		127986	1279855.84			1.547	5.000
25		17312	173116.60			0.900	5.000
26		20309	203086.66			0.753	5.000
59		30588	305884.46			0.299	5.000
113		14060	140600.53			0.635	5.000
115		41832	418323.66			0.948	5.000
206		14928	149281.74			0.515	5.000
207		12430	124296.26			0.147	5.000
208		31412	314121.87			0.379	5.000
220		1	7.20			15.987	

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

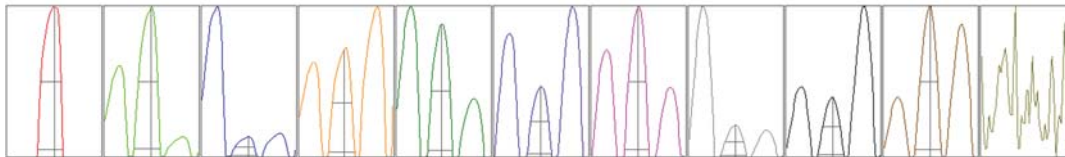
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	21204	21161	21026	21321	21479
24	129919	128640	125350	129520	126498
25	17541	17397	17176	17263	17182
26	20283	20557	20287	20279	20136
59	30519	30724	30540	30517	30643
113	14155	14137	13934	14039	14035
115	41983	42285	42009	41625	41260
206	14808	14944	14967	15012	14908
207	12451	12443	12415	12432	12407
208	31393	31471	31277	31582	31337

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	34633.33	9.05	8.90 - 9.10	
24	220272.96	24.00	23.90 - 24.10	
25	30057.95	25.00	24.90 - 25.10	
26	33893.63	25.95	25.90 - 26.10	
59	54586.08	58.95	58.90 - 59.10	
113	26695.67	113.00	112.90 - 113.10	
115	79611.47	115.00	114.90 - 115.10	
206	27308.65	206.00	205.90 - 206.10	
207	23221.12	207.00	206.90 - 207.10	
208	58623.08	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.65	0.787	0.900	
24	0.61	0.829	0.900	
25	0.61	0.798	0.900	
26	0.63	0.828	0.900	
59	0.59	0.782	0.900	
113	0.55	0.769	0.900	
115	0.55	0.774	0.900	
206	0.56	0.821	0.900	
207	0.55	0.819	0.900	
208	0.55	0.823	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.0 V	Deflect	15.6 V
Extract 2	-155.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-85 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	-0.4 mm
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EM

Discriminator	4.0 mV	Analog HV	2292 V	Pulse HV	1648 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		5482	54818.98			0.592	
89		19102	191016.14			0.173	
205		32885	328853.01			1.272	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	5448	5515	5450	5483	5513
89	19134	19101	19062	19077	19135
205	32382	32686	32741	33193	33425

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.0 V	Deflect	5.2 V
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US EPA Tune Check Report

Extract 2	-155.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-85 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	-0.4 mm
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EM

Discriminator	4.0 mV	Analog HV	2292 V	Pulse HV	1648 V
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