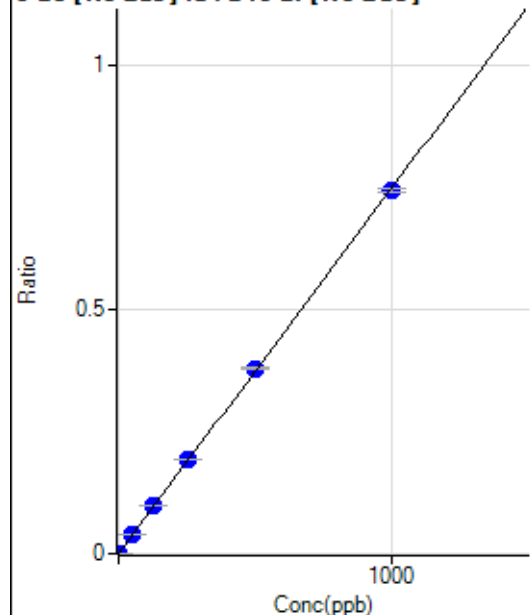


Calibration for 002CALB.d

Batch Folder: D:\ICP-MS Data\P7080218-MS .b\
 Analysis File: P7080218-MS .batch.bin
 DA Date-Time: 2018-08-02 17:41:58
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2018-08-02 11:50:39
2			
3	005CALS.d	S02	2018-08-02 11:59:03
4	006CALS.d	S03	2018-08-02 12:02:57
5	007CALS.d	S04	2018-08-02 12:06:57
6	008CALS.d	S05	2018-08-02 12:10:45
7	009CALS.d	S06	2018-08-02 12:14:31
8	010CALS.d	S07	2018-08-02 12:18:15
9	011CALS.d	S08	2018-08-02 12:21:59

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	37.04	0.0000	P	69.4
2	☐	0.100					
3	☐	1.000	1.052	2409.52	0.0008	P	3.0
4	☐	50.000	52.879	119126.76	0.0395	P	0.4
5	☐	125.000	132.337	290195.02	0.0989	P	0.4
6	☐	250.000	258.204	563792.70	0.1929	P	0.3
7	☐	500.000	506.831	1078803.52	0.3786	P	0.7
8	☐	1000.000	993.472	2092907.14	0.7421	P	0.9
9	☐			670.40	0.0003	P	13.4

$$y = 7.4695\text{E-}004 * x + 1.2033\text{E-}005$$

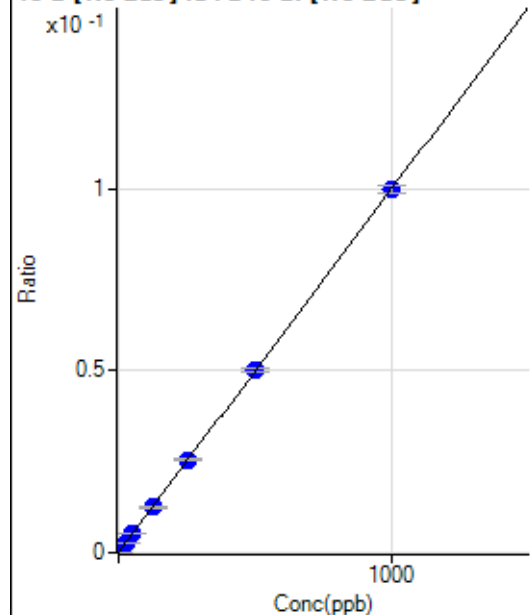
$$R = 0.9999$$

$$DL = 0.03356$$

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	244.46	0.0001	P	15.9
2	☐	2.500					
3	☐	25.000	24.916	7760.63	0.0026	P	4.8
4	☐	50.000	52.462	16050.70	0.0053	P	1.4
5	☐	125.000	125.939	37177.32	0.0127	P	4.0
6	☐	250.000	254.868	74698.74	0.0256	P	1.8
7	☐	500.000	501.522	143065.54	0.0502	P	1.5
8	☐	1000.000	997.784	281496.18	0.0998	P	2.0
9	☐			9823.05	0.0039	P	7.1

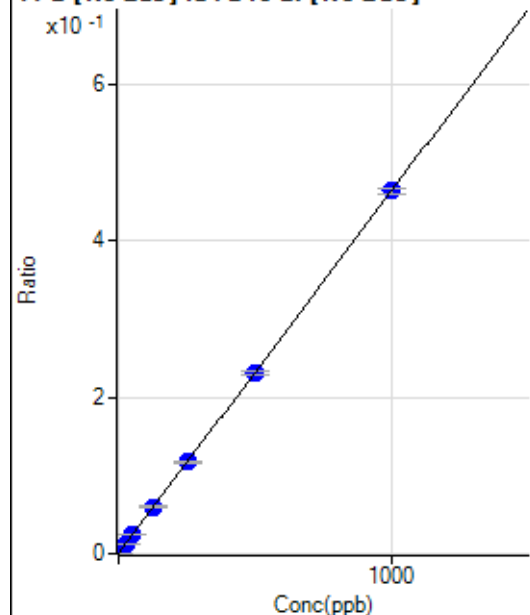
$$y = 9.9953\text{E-}005 * x + 7.9386\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.3781$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1177.87	0.0004	P	9.1
2	☐	2.500					
3	☐	25.000	23.844	34487.36	0.0114	P	1.3
4	☐	50.000	51.257	72680.76	0.0241	P	2.0
5	☐	125.000	128.016	175027.96	0.0596	P	2.1
6	☐	250.000	252.400	342597.57	0.1172	P	1.7
7	☐	500.000	497.840	657640.25	0.2308	P	2.2
8	☐	1000.000	1000.069	1306497.59	0.4633	P	1.7
9	☐			43709.66	0.0174	P	7.4

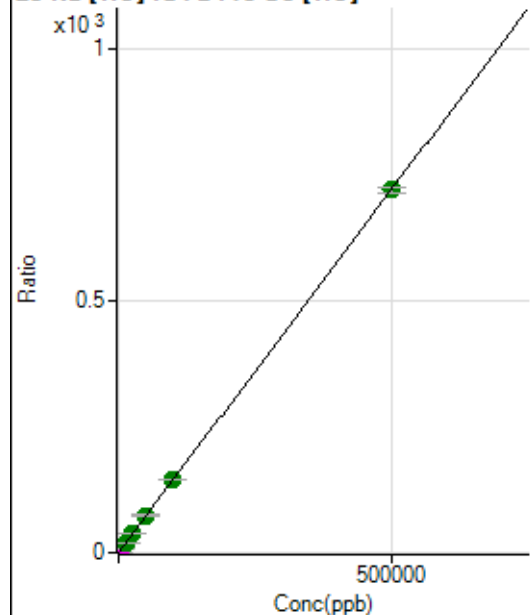
$$y = 4.6284\text{E-}004 * x + 3.8249\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.2263$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11463.10	0.0378	P	3.0
2	☐	50.000					
3	☐	500.000	501.004	228842.07	0.7586	P	0.6
4	☐	5000.000	5231.003	2275926.92	7.5636	M	0.6
5	☐	12500.000	13503.922	5548207.37	19.4656	A	10.1
6	☐	25000.000	25797.269	10913472.73	37.1518	A	1.3
7	☐	50000.000	51532.723	21314047.18	74.1768	A	0.6
8	☐	100000.00	100880.83	42209946.78	145.1729	A	0.7
9	☐	500000.00	499603.28	196468448.8	718.8062	A	1.3

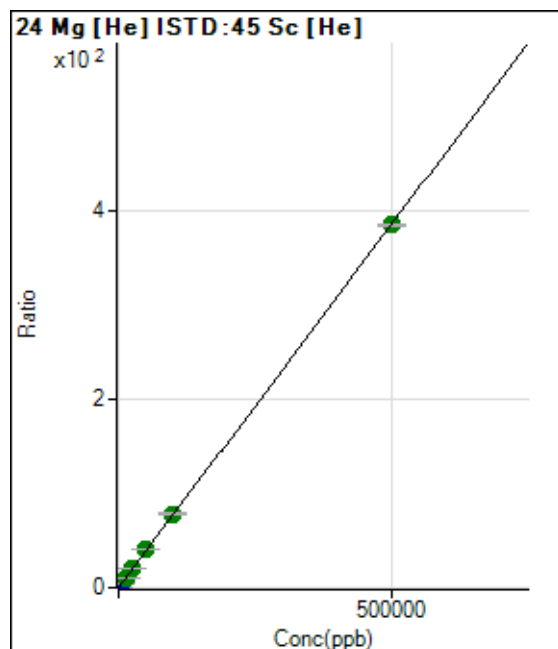
$$y = 0.0014 * x + 0.0378$$

$$R = 1.0000$$

$$DL = 2.38$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	127.78	0.0004	P	21.9
2	☐	50.000					
3	☐	500.000	494.122	114988.96	0.3812	P	1.4
4	☐	5000.000	5308.924	1231164.83	4.0915	P	0.8
5	☐	12500.000	13747.035	3017455.80	10.5940	A	11.2
6	☐	25000.000	26178.073	5926020.84	20.1735	A	1.2
7	☐	50000.000	52065.162	11528777.77	40.1222	A	0.3
8	☐	100000.00	101771.19	22803239.92	78.4261	A	0.5
9	☐	500000.00	499346.08	105182108.6	384.8004	A	0.7

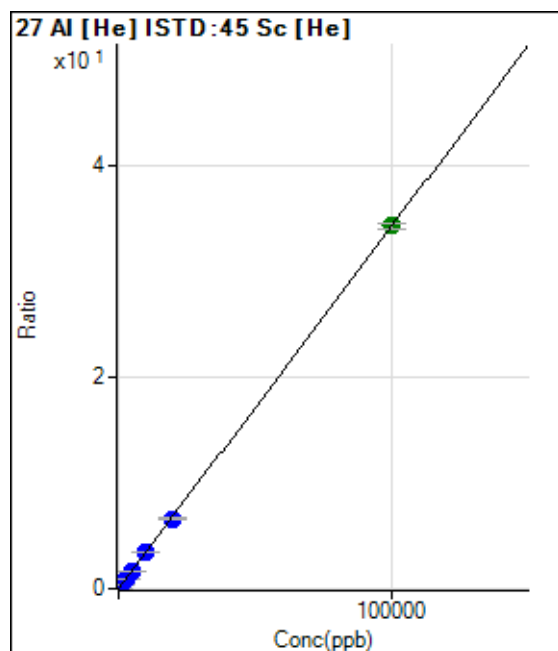
$$y = 7.7061\text{E-}004 * x + 4.2234\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.3598$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	69.45	0.0002	P	18.0
2	☐	2.000					
3	☐	20.000	19.286	2058.57	0.0068	P	8.9
4	☐	1000.000	1016.119	104701.32	0.3479	P	1.5
5	☐	2500.000	2620.030	255219.68	0.8968	P	12.5
6	☐	5000.000	4956.510	498310.55	1.6963	P	1.1
7	☐	10000.000	9858.605	969443.04	3.3738	P	0.5
8	☐	20000.000	19329.935	1923366.47	6.6149	P	0.8
9	☐	100000.00	100147.16	9366861.76	34.2706	A	1.5

$$y = 3.4220\text{E-}004 * x + 2.2915\text{E-}004$$

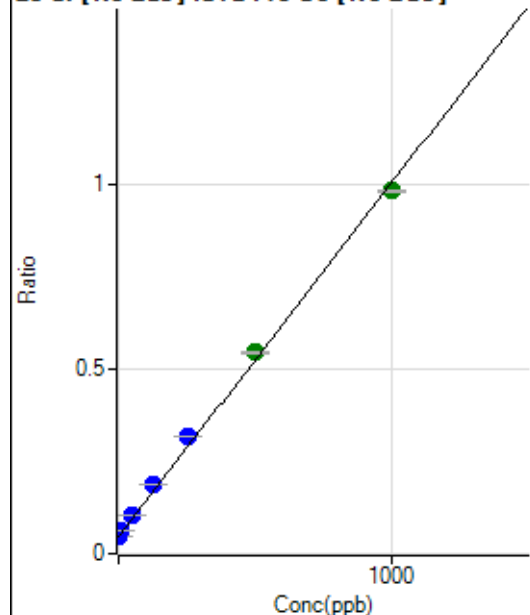
$$R = 1.0000$$

$$DL = 0.3612$$

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	303161.92	0.0460	P	1.1
2	☐	1.000					
3	☐	10.000	17.017	396460.30	0.0623	P	0.3
4	☐	50.000	59.031	653612.46	0.1025	P	0.9
5	☐	125.000	147.343	1171491.52	0.1871	P	1.6
6	☐	250.000	283.504	1982496.77	0.3175	P	0.5
7	☐	500.000	521.264	3326236.92	0.5452	A	0.6
8	☐	1000.000	977.677	6091604.04	0.9823	A	0.3
9	☐			1332038.88	0.2394	P	4.1

$$y = 9.5769\text{E-}004 * x + 0.0460$$

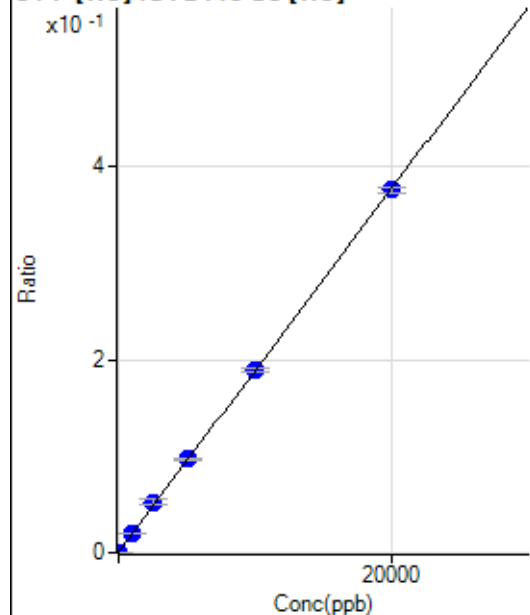
$$R = 0.9990$$

$$DL = 1.622$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-4.955	180.57	0.0006	P	15.4
2	☐	0.000					
3	☐	0.000	4.955	236.13	0.0008	P	8.8
4	☐	1000.000	1064.872	6232.08	0.0207	P	1.8
5	☐	2500.000	2728.146	14805.05	0.0520	P	11.2
6	☐	5000.000	5103.775	28386.25	0.0966	P	2.4
7	☐	10000.000	10015.717	54302.56	0.1890	P	1.5
8	☐	20000.000	19934.436	109164.25	0.3755	P	1.3
9	☐			250.01	0.0009	P	10.6

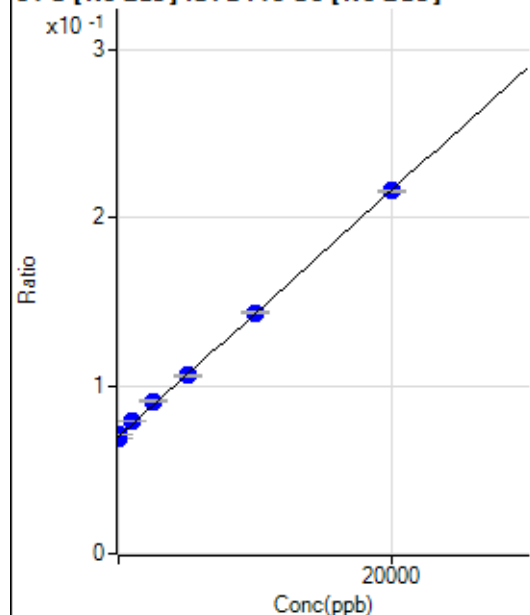
$$y = 1.8800\text{E-}005 * x + 6.8957\text{E-}004$$

$$R = 0.9999$$

$$DL = 12.79$$

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	-187.581	451213.37	0.0685	P	0.5
2	☐	0.000					
3	☐	0.000	187.581	453224.40	0.0712	P	0.4
4	☐	1000.000	1251.992	503809.16	0.0790	P	0.5
5	☐	2500.000	2892.439	570231.37	0.0911	P	1.8
6	☐	5000.000	4957.045	663353.56	0.1062	P	1.1
7	☐	10000.000	10034.283	875675.51	0.1435	P	1.2
8	☐	20000.000	19931.943	1340903.69	0.2162	P	0.4
9	☐			362113.46	0.0651	P	4.0

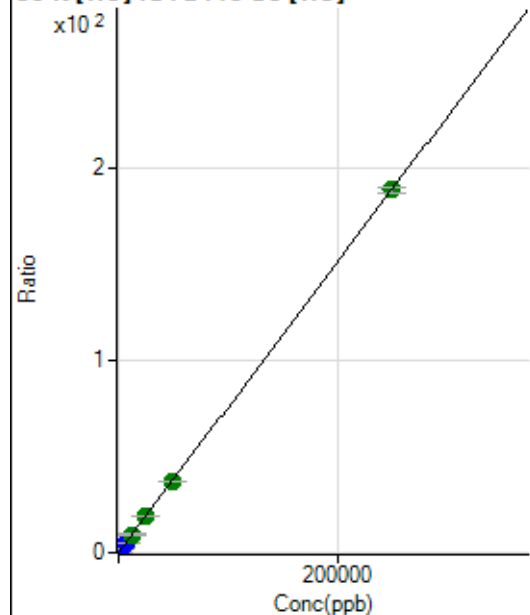
$$y = 7.3449\text{E-}006 * x + 0.0698$$

$$R = 0.9997$$

$$DL = 125.9$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	31740.34	0.1048	P	1.4
2	☐	50.000					
3	☐	500.000	481.075	141258.47	0.4683	P	0.1
4	☐	2500.000	2527.676	606229.97	2.0147	P	0.6
5	☐	6250.000	6527.743	1435248.63	5.0371	P	10.6
6	☐	12500.000	12440.932	2792126.47	9.5051	A	1.4
7	☐	25000.000	24735.681	5400559.54	18.7950	A	0.3
8	☐	50000.000	49276.709	10856443.30	37.3382	A	0.9
9	☐	250000.00	250166.86	51694704.28	189.1303	A	1.4

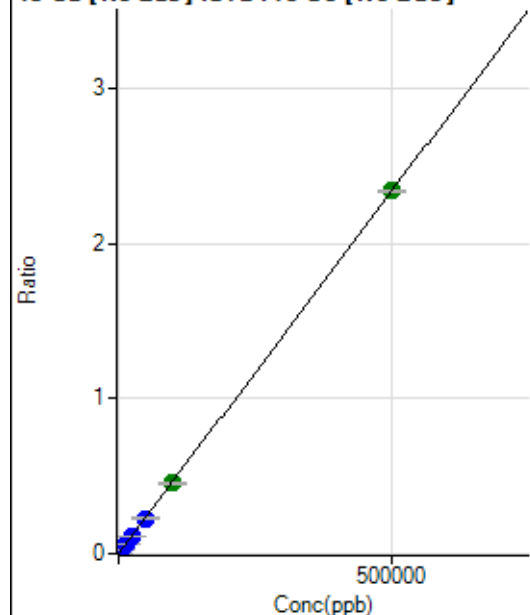
$$y = 7.5560\text{E-}004 * x + 0.1048$$

$$R = 1.0000$$

$$DL = 5.861$$

Weight: <None>

Min Conc: 0

43 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	213.90	0.0000	P	11.4
2	☐	50.000					
3	☐	500.000	457.398	13795.87	0.0022	P	1.4
4	☐	5000.000	4989.561	148690.10	0.0233	P	0.7
5	☐	12500.000	12400.592	362674.00	0.0579	P	0.5
6	☐	25000.000	24564.347	716198.82	0.1147	P	0.5
7	☐	50000.000	49013.352	1396066.04	0.2288	P	0.5
8	☐	100000.00	96946.409	2806540.49	0.4526	A	0.9
9	☐	500000.00	500733.79	13015423.64	2.3375	A	0.3

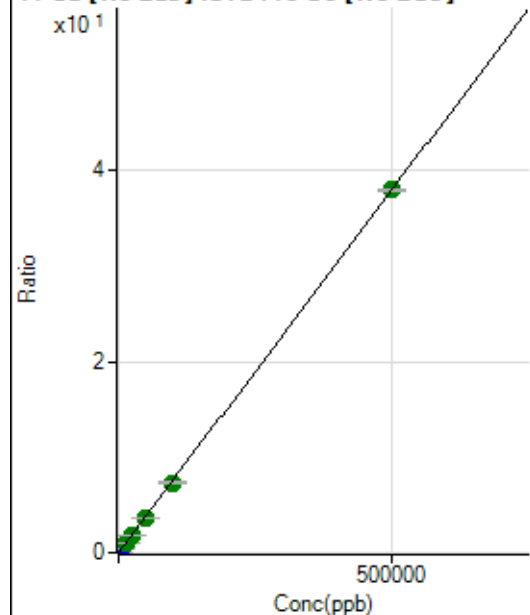
$$y = 4.6681\text{E-}006 * x + 3.2455\text{E-}005$$

$$R = 1.0000$$

$$DL = 2.379$$

Weight: <None>

Min Conc: 0

44 Ca [No Gas] ISTD:45 Sc [No Gas]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6126.53	0.0009	P	4.8
2	☐	50.000					
3	☐	500.000	465.985	230788.46	0.0363	P	0.3
4	☐	5000.000	4912.302	2380393.56	0.3734	P	0.5
5	☐	12500.000	12174.951	5786058.42	0.9241	A	0.9
6	☐	25000.000	24297.482	11509058.94	1.8432	A	0.6
7	☐	50000.000	48782.049	22571443.56	3.6997	A	0.6
8	☐	100000.00	96783.316	45513289.56	7.3393	A	0.5
9	☐	500000.00	500809.29	211439415.8	37.9735	A	0.2

$$y = 7.5822\text{E-}005 * x + 9.2960\text{E-}004$$

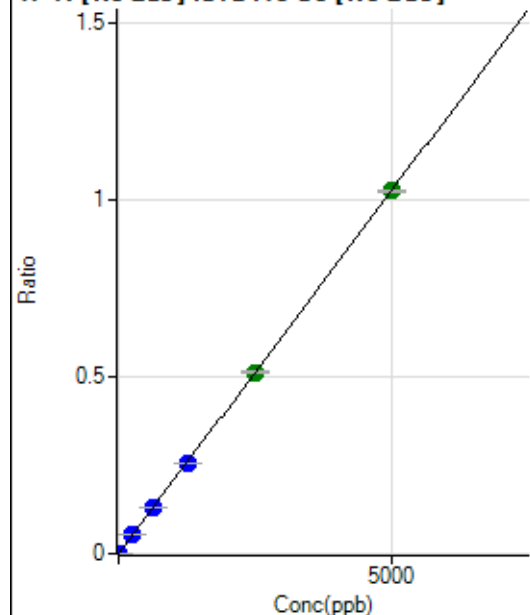
$$R = 1.0000$$

$$DL = 1.761$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	122.23	0.0000	P	14.6
2	☐	0.500					
3	☐	5.000	4.854	6465.55	0.0010	P	1.7
4	☐	250.000	252.494	330859.04	0.0519	P	0.5
5	☐	625.000	632.712	814121.69	0.1300	P	0.9
6	☐	1250.000	1248.400	1601772.23	0.2565	P	0.4
7	☐	2500.000	2500.057	3134040.20	0.5137	A	0.5
8	☐	5000.000	4999.283	6370067.29	1.0272	A	0.6
9	☐			3950.69	0.0007	P	2.3

$$y = 2.0547\text{E-}004 * x + 1.8551\text{E-}005$$

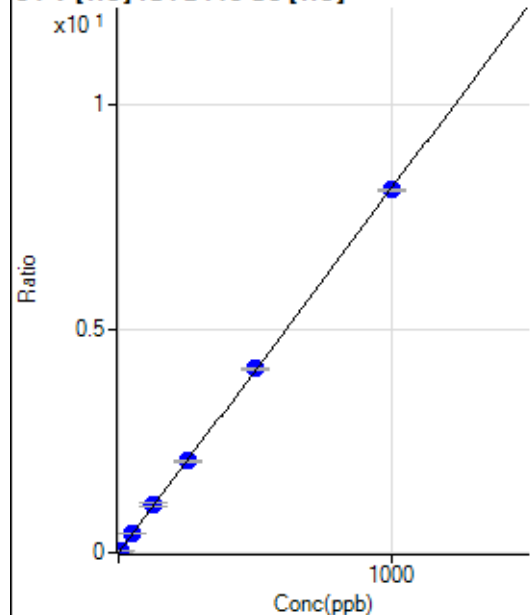
$$R = 1.0000$$

$$DL = 0.0396$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2.22	0.0000	P	86.6
2	☐	0.500					
3	☐	5.000	4.816	11814.91	0.0392	P	1.1
4	☐	50.000	51.077	124986.90	0.4154	P	0.5
5	☐	125.000	131.798	305342.21	1.0718	P	10.8
6	☐	250.000	251.562	600934.05	2.0457	P	1.1
7	☐	500.000	505.903	1182112.55	4.1140	P	0.7
8	☐	1000.000	995.755	2354403.37	8.0974	P	0.6
9	☐			995.61	0.0036	P	6.6

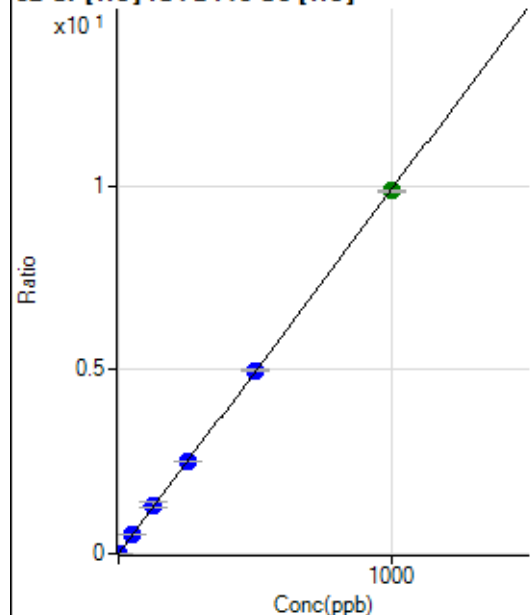
$$y = 0.0081 * x + 7.3574\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.002351$$

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	548.91	0.0018	P	10.6
2	☐	0.200					
3	☐	2.000	2.129	6908.40	0.0229	P	2.8
4	☐	50.000	51.192	153182.60	0.5091	P	0.5
5	☐	125.000	132.988	375994.94	1.3196	P	10.6
6	☐	250.000	252.249	734782.33	2.5013	P	0.8
7	☐	500.000	504.009	1435539.46	4.9959	P	0.3
8	☐	1000.000	996.375	2871155.37	9.8747	A	0.7
9	☐			97432.41	0.3565	P	1.3

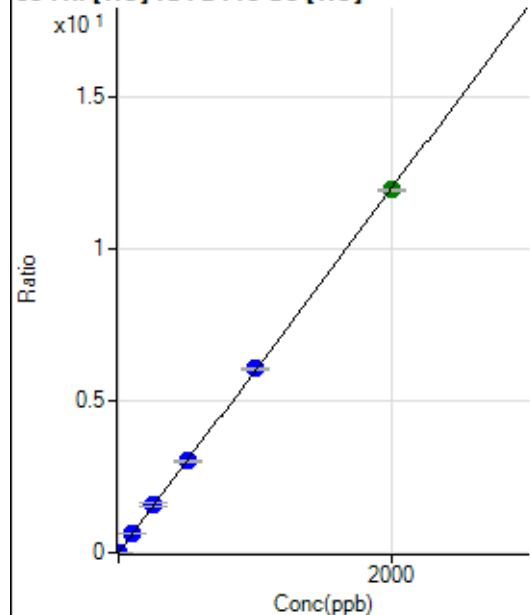
$$y = 0.0099 * x + 0.0018$$

$$R = 1.0000$$

$$DL = 0.0583$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	34.44	0.0001	P	25.2
2	☐	0.100					
3	☐	1.000	1.004	1849.04	0.0061	P	1.9
4	☐	100.000	102.400	184623.68	0.6136	P	0.8
5	☐	250.000	264.700	451856.55	1.5858	P	10.6
6	☐	500.000	503.515	886119.87	3.0165	P	1.1
7	☐	1000.000	1009.495	1737742.04	6.0477	P	0.5
8	☐	2000.000	1992.416	3470492.83	11.9360	A	0.7
9	☐			16177.97	0.0592	P	2.2

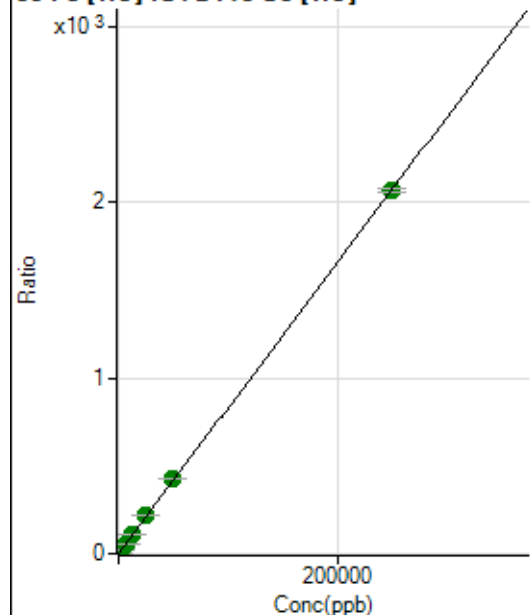
$$y = 0.0060 * x + 1.1386E-004$$

$$R = 1.0000$$

$$DL = 0.01439$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4637.91	0.0153	P	3.5
2	☐	5.000					
3	☐	50.000	51.165	132269.70	0.4385	P	1.0
4	☐	2500.000	2604.035	6485673.93	21.5535	A	0.4
5	☐	6250.000	6774.614	15965650.36	56.0488	A	11.0
6	☐	12500.000	12918.070	31391468.53	106.8619	A	1.0
7	☐	25000.000	25954.933	61689829.62	214.6910	A	0.8
8	☐	50000.000	51249.506	123251724.9	423.9048	A	1.1
9	☐	250000.00	249619.54	564325723.7	2,064.642	A	1.2

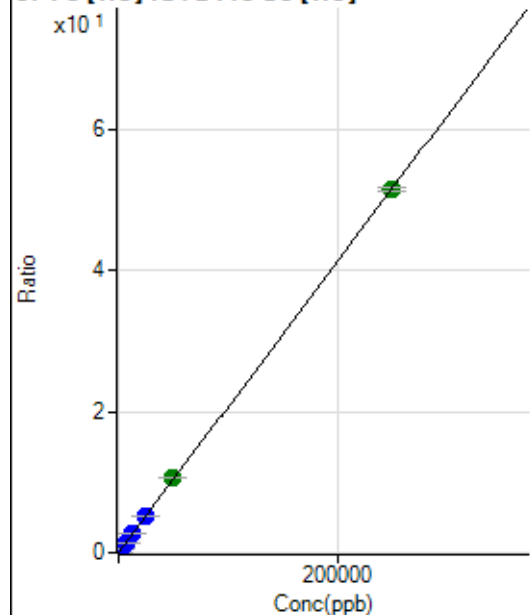
$$y = 0.0083 * x + 0.0153$$

$$R = 1.0000$$

$$DL = 0.1929$$

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	311.12	0.0010	P	28.9
2	☐	5.000					
3	☐	50.000	52.092	3544.97	0.0118	P	3.0
4	☐	2500.000	2597.023	161193.91	0.5357	P	0.3
5	☐	6250.000	6779.584	398003.52	1.3968	P	10.5
6	☐	12500.000	12837.261	776656.78	2.6439	P	1.0
7	☐	25000.000	25698.195	1520477.33	5.2916	P	0.7
8	☐	50000.000	51162.760	3062843.93	10.5340	A	0.8
9	☐	250000.00	249666.55	14049317.10	51.4005	A	1.2

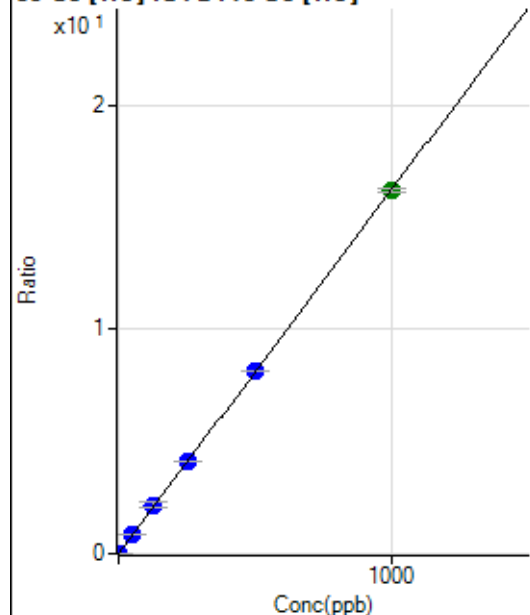
$$y = 2.0587E-004 * x + 0.0010$$

$$R = 1.0000$$

$$DL = 4.326$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0001	P	26.8
2	☐	0.100					
3	☐	1.000	0.993	4896.45	0.0162	P	4.1
4	☐	50.000	51.897	253252.79	0.8416	P	0.4
5	☐	125.000	134.538	621484.81	2.1816	P	10.9
6	☐	250.000	252.928	1204754.66	4.1013	P	1.3
7	☐	500.000	501.878	2338342.90	8.1379	P	0.2
8	☐	1000.000	997.042	4700700.45	16.1668	A	0.9
9	☐			53293.26	0.1950	P	1.7

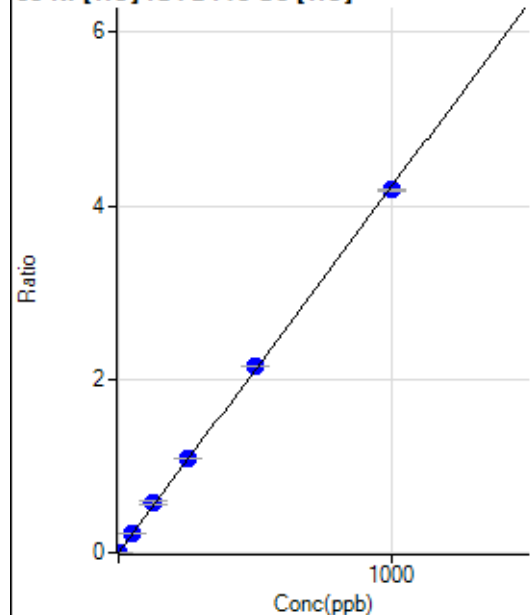
$$y = 0.0162 * x + 1.2818E-004$$

$$R = 1.0000$$

$$DL = 0.006365$$

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	57.78	0.0002	P	17.4
2	☐	0.100					
3	☐	1.000	1.171	1547.89	0.0051	P	6.3
4	☐	50.000	53.169	67535.83	0.2244	P	0.7
5	☐	125.000	136.630	164287.75	0.5765	P	10.3
6	☐	250.000	257.279	318818.96	1.0853	P	1.2
7	☐	500.000	510.554	618811.12	2.1536	P	0.6
8	☐	1000.000	991.291	1215755.46	4.1812	P	0.5
9	☐			34342.51	0.1256	P	1.3

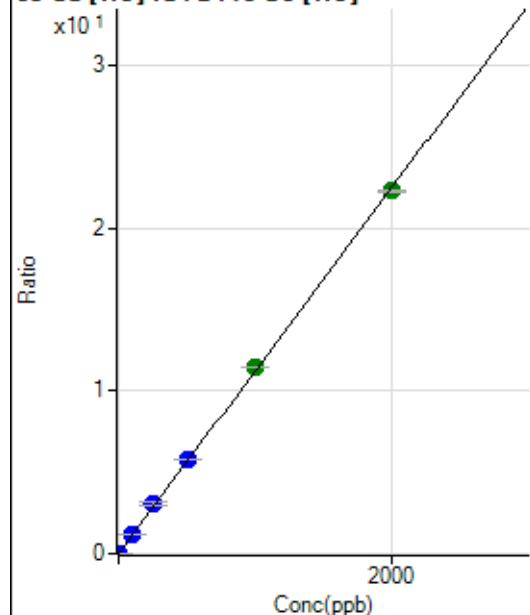
$$y = 0.0042 * x + 1.9071E-004$$

$$R = 0.9998$$

$$DL = 0.02365$$

Weight: <None>

Min Conc: 0

⁶³Cu [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1862.38	0.0061	P	6.6
2	☐	0.200					
3	☐	2.000	2.062	8839.46	0.0293	P	3.4
4	☐	100.000	105.877	359762.71	1.1956	P	0.2
5	☐	250.000	272.657	874481.98	3.0692	P	10.7
6	☐	500.000	512.272	1692383.27	5.7611	P	0.8
7	☐	1000.000	1018.662	3290025.30	11.4499	A	0.2
8	☐	2000.000	1984.475	6483889.21	22.3000	A	0.7
9	☐			15172.50	0.0555	P	1.6

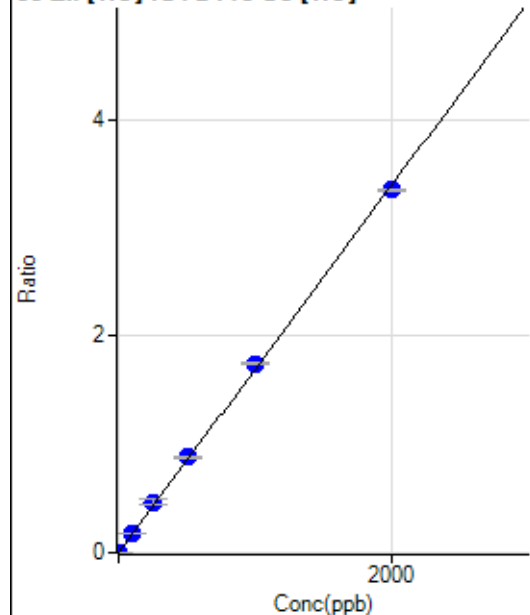
$$y = 0.0112 * x + 0.0061$$

$$R = 0.9999$$

$$DL = 0.1076$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	258.90	0.0009	P	4.7
2	☐	0.200					
3	☐	2.000	2.280	1423.43	0.0047	P	9.6
4	☐	100.000	106.326	54500.46	0.1811	P	1.9
5	☐	250.000	275.923	133460.98	0.4687	P	11.5
6	☐	500.000	519.744	259109.96	0.8821	P	1.2
7	☐	1000.000	1030.901	502475.41	1.7487	P	0.5
8	☐	2000.000	1976.057	974376.48	3.3512	P	0.8
9	☐			6116.92	0.0224	P	1.5

$$y = 0.0017 * x + 8.5480E-004$$

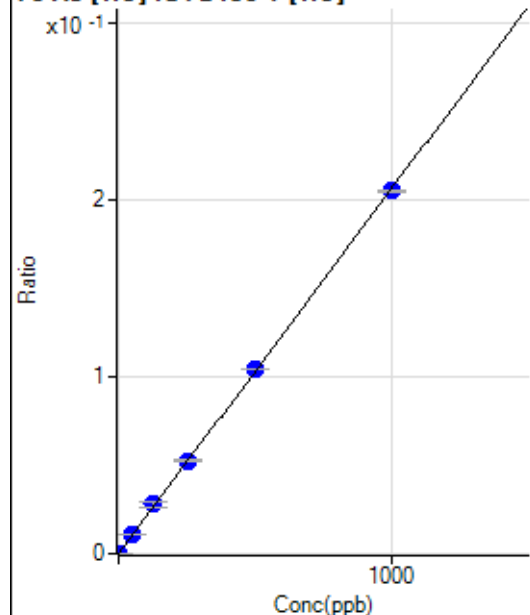
$$R = 0.9997$$

$$DL = 0.07053$$

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	3.09	0.0000	P	69.9
2	☐	0.100					
3	☐	1.000	1.033	354.95	0.0002	P	8.2
4	☐	50.000	51.339	17615.05	0.0106	P	0.4
5	☐	125.000	134.399	43619.50	0.0278	P	10.3
6	☐	250.000	255.230	85589.37	0.0527	P	0.4
7	☐	500.000	506.207	167095.28	0.1045	P	0.5
8	☐	1000.000	994.347	332846.79	0.2054	P	0.6
9	☐			510.51	0.0003	P	5.1

$$y = 2.0652E-004 * x + 1.8698E-006$$

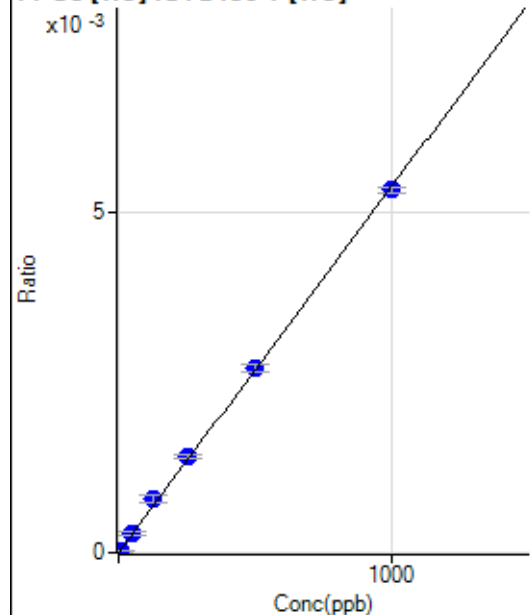
$$R = 0.9999$$

$$DL = 0.01898$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	0.500					
3	☐	5.000	5.122	46.67	0.0000	P	32.3
4	☐	50.000	51.674	463.35	0.0003	P	16.1
5	☐	125.000	147.837	1248.97	0.0008	P	14.4
6	☐	250.000	263.036	2301.33	0.0014	P	3.9
7	☐	500.000	504.268	4341.83	0.0027	P	3.6
8	☐	1000.000	991.668	8657.16	0.0053	P	1.8
9	☐			1.11	0.0000	P	173.2

$$y = 5.3855E-006 * x + 6.7453E-007$$

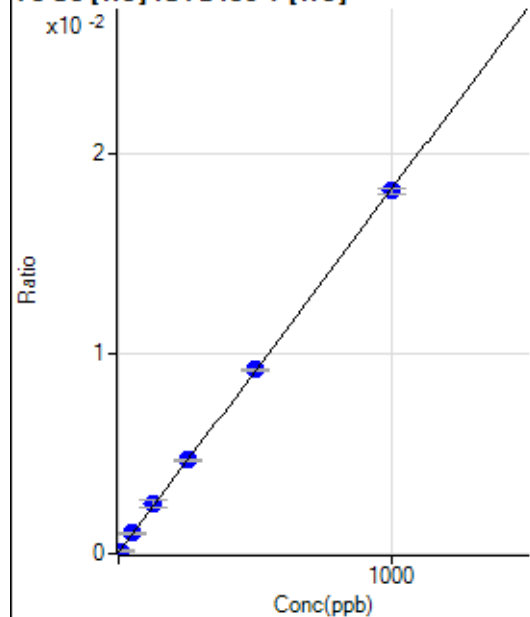
$$R = 0.9997$$

$$DL = 0.6508$$

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	86.42	0.0001	P	11.3
2	☐	0.500					
3	☐	5.000	4.976	235.19	0.0001	P	7.3
4	☐	50.000	53.008	1684.06	0.0010	P	3.5
5	☐	125.000	135.315	3930.19	0.0025	P	13.8
6	☐	250.000	255.142	7598.97	0.0047	P	1.4
7	☐	500.000	503.524	14681.59	0.0092	P	0.7
8	☐	1000.000	995.513	29351.91	0.0181	P	1.3
9	☐			88.89	0.0001	P	21.8

$$y = 1.8139\text{E-}005 * x + 5.2262\text{E-}005$$

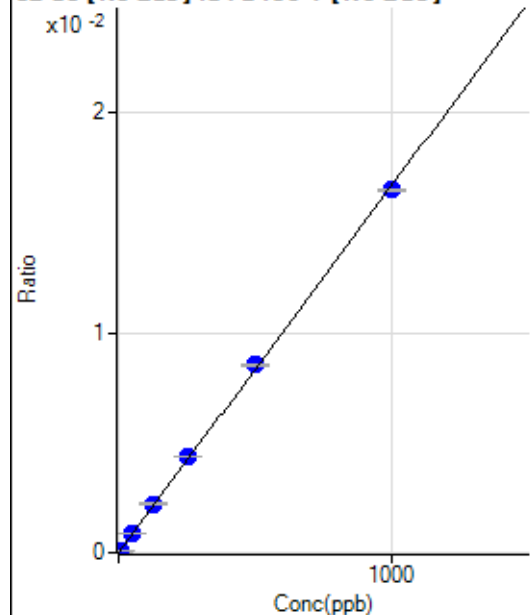
$$R = 0.9999$$

$$DL = 0.9793$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	-60.46	0.0000	P	-243.
2	☐	0.500					
3	☐	5.000	5.730	944.59	0.0001	P	5.7
4	☐	50.000	53.905	9425.85	0.0009	P	0.5
5	☐	125.000	132.722	22970.16	0.0022	P	1.6
6	☐	250.000	262.952	45699.38	0.0044	P	0.4
7	☐	500.000	513.122	88392.15	0.0086	P	1.1
8	☐	1000.000	989.037	173442.37	0.0165	P	0.5
9	☐			216.79	0.0000	P	23.9

$$y = 1.6693\text{E-}005 * x - 5.5573\text{E-}006$$

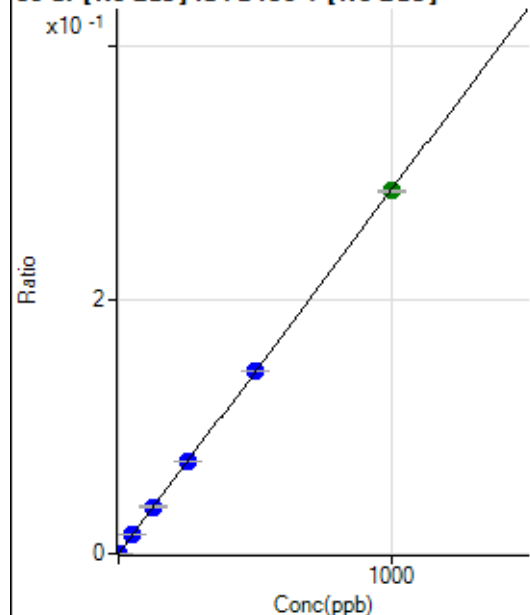
$$R = 0.9998$$

$$DL = 2.431$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	575.04	0.0001	P	28.7
2	☐	0.100					
3	☐	1.000	1.075	3792.31	0.0004	P	5.4
4	☐	50.000	51.417	156135.03	0.0148	P	1.0
5	☐	125.000	129.088	385741.33	0.0371	P	0.9
6	☐	250.000	255.175	764159.02	0.0733	P	0.5
7	☐	500.000	501.863	1488233.44	0.1441	P	0.8
8	☐	1000.000	997.193	3008831.86	0.2863	A	0.8
9	☐			14404.96	0.0016	P	1.7

$$y = 2.8707\text{E-}004 * x + 5.3169\text{E-}005$$

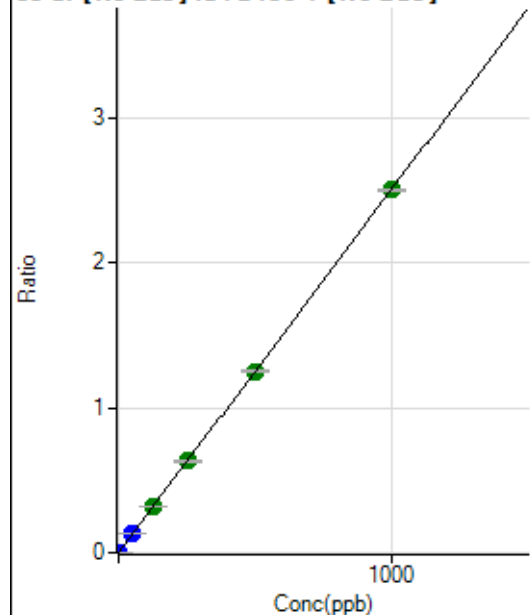
$$R = 1.0000$$

$$DL = 0.1595$$

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	194.45	0.0000	P	21.8
2	☐	0.100					
3	☐	1.000	0.998	26444.71	0.0025	P	3.1
4	☐	50.000	50.806	1343565.92	0.1275	P	0.5
5	☐	125.000	126.475	3298210.99	0.3173	A	0.8
6	☐	250.000	252.130	6593684.74	0.6325	A	0.8
7	☐	500.000	500.087	12954831.97	1.2546	A	0.3
8	☐	1000.000	999.199	26342191.04	2.5067	A	0.3
9	☐			120301.85	0.0130	P	1.5

$$y = 0.0025 * x + 1.7965\text{E-}005$$

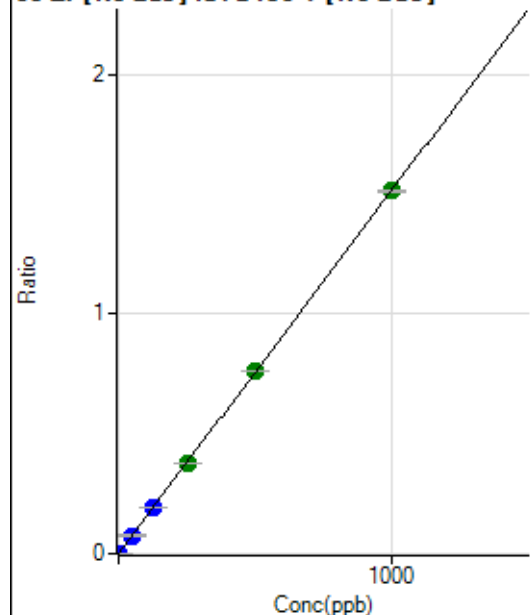
$$R = 1.0000$$

$$DL = 0.004681$$

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	988.96	0.0001	P	9.2
2	☐	0.100					
3	☐	1.000	0.999	16824.30	0.0016	P	2.5
4	☐	50.000	50.191	802756.69	0.0762	P	0.4
5	☐	125.000	125.525	1978531.27	0.1903	P	0.6
6	☐	250.000	249.268	3939260.55	0.3779	A	0.5
7	☐	500.000	501.499	7849694.70	0.7602	A	0.4
8	☐	1000.000	999.358	15918209.56	1.5148	A	0.2
9	☐			5805.62	0.0006	P	13.6

$$y = 0.0015 * x + 9.1414E-005$$

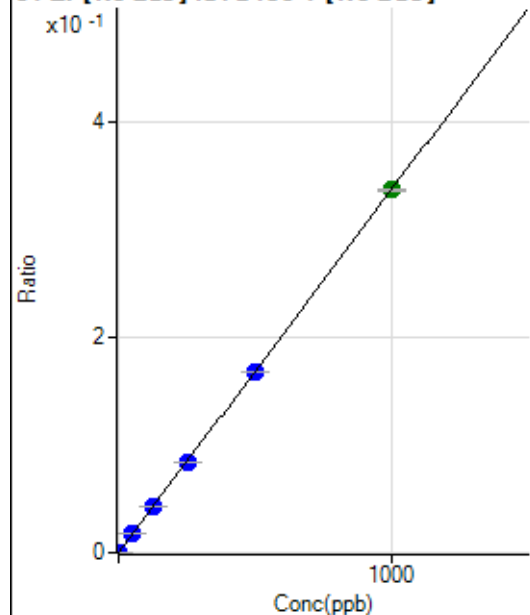
$$R = 1.0000$$

$$DL = 0.01662$$

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	169.45	0.0000	P	12.8
2	☐	0.100					
3	☐	1.000	1.025	3786.79	0.0004	P	3.6
4	☐	50.000	50.574	179933.34	0.0171	P	0.7
5	☐	125.000	127.129	445788.23	0.0429	P	1.1
6	☐	250.000	250.880	882122.11	0.0846	P	0.4
7	☐	500.000	500.048	1741486.00	0.1687	P	0.2
8	☐	1000.000	999.461	3542141.01	0.3371	A	0.6
9	☐			1322.34	0.0001	P	2.5

$$y = 3.3724E-004 * x + 1.5665E-005$$

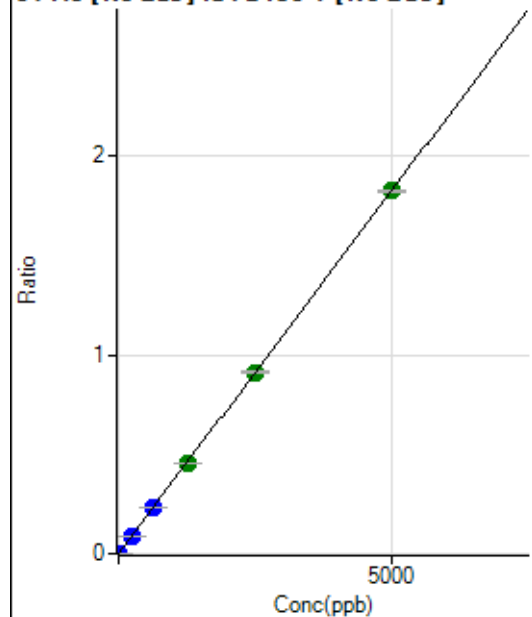
$$R = 1.0000$$

$$DL = 0.01778$$

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	300.02	0.0000	P	12.7
2	☐	0.500					
3	☐	5.000	4.959	19288.71	0.0018	P	0.8
4	☐	250.000	251.325	968278.08	0.0919	P	0.2
5	☐	625.000	626.871	2381319.26	0.2291	P	0.9
6	☐	1250.000	1246.820	4749658.70	0.4556	A	0.6
7	☐	2500.000	2500.829	9436658.46	0.9139	A	0.3
8	☐	5000.000	5000.080	19200893.66	1.8272	A	0.4
9	☐			22212.42	0.0024	P	3.0

$$y = 3.6542\text{E-}004 * x + 2.7725\text{E-}005$$

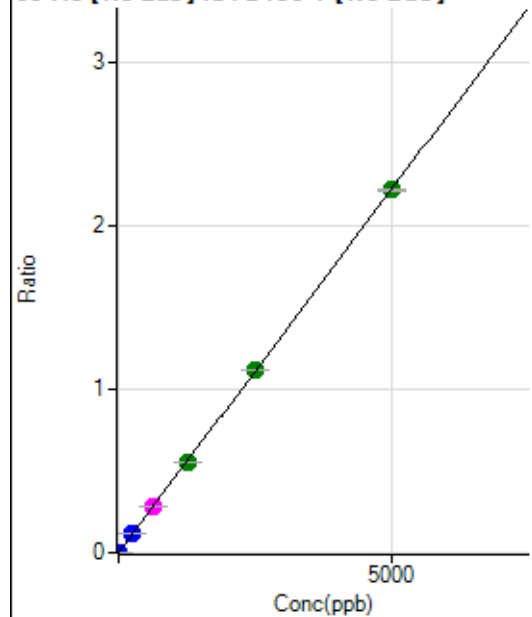
$$R = 1.0000$$

$$DL = 0.02882$$

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	27.4
2	☐	0.500					
3	☐	5.000	4.780	22346.03	0.0021	P	1.1
4	☐	250.000	253.386	1188522.75	0.1128	P	0.8
5	☐	625.000	626.470	2897859.85	0.2788	M	0.7
6	☐	1250.000	1245.627	5778349.96	0.5543	A	0.4
7	☐	2500.000	2514.661	11555168.49	1.1191	A	0.6
8	☐	5000.000	4993.410	23351354.52	2.2221	A	0.2
9	☐			34431.56	0.0037	P	2.7

$$y = 4.4501\text{E-}004 * x + 4.3676\text{E-}006$$

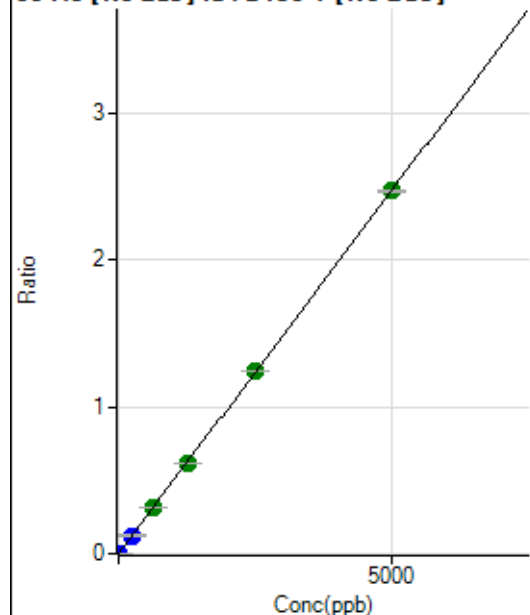
$$R = 1.0000$$

$$DL = 0.008058$$

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	180.57	0.0000	P	18.0
2	☐	0.500					
3	☐	5.000	4.880	25462.43	0.0024	P	1.3
4	☐	250.000	251.483	1310243.76	0.1243	P	0.7
5	☐	625.000	625.015	3211114.63	0.3089	A	0.7
6	☐	1250.000	1239.796	6387706.26	0.6128	A	0.8
7	☐	2500.000	2506.616	12792732.66	1.2389	A	0.1
8	☐	5000.000	4999.167	25964792.60	2.4708	A	0.5
9	☐			45939.58	0.0049	P	2.8

$$y = 4.9425\text{E-}004 * x + 1.6696\text{E-}005$$

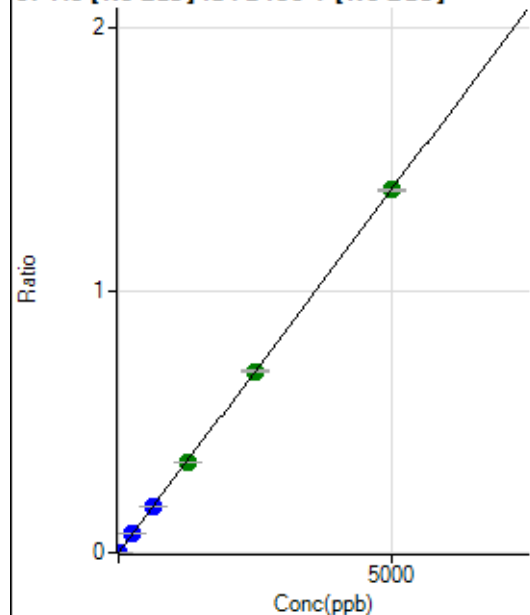
$$R = 1.0000$$

$$DL = 0.01821$$

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	22.22	0.0000	P	57.0
2	☐	0.500					
3	☐	5.000	4.969	14435.50	0.0014	P	2.4
4	☐	250.000	252.735	737058.38	0.0699	P	0.7
5	☐	625.000	631.705	1816725.91	0.1748	P	1.2
6	☐	1250.000	1248.971	3602315.83	0.3456	A	0.6
7	☐	2500.000	2502.016	7148365.78	0.6923	A	0.3
8	☐	5000.000	4998.274	14532871.33	1.3830	A	0.2
9	☐			21650.67	0.0023	P	3.0

$$y = 2.7669\text{E-}004 * x + 2.0498\text{E-}006$$

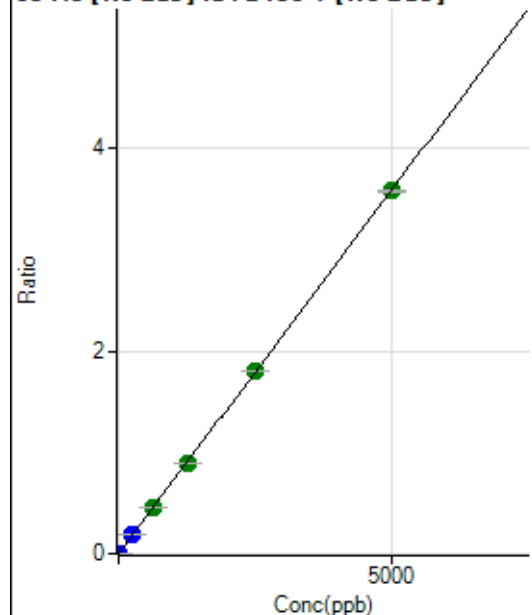
$$R = 1.0000$$

$$DL = 0.01267$$

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	75.00	0.0000	P	29.6
2	☐	0.500					
3	☐	5.000	4.827	36405.74	0.0035	P	1.9
4	☐	250.000	252.649	1912064.04	0.1814	P	0.6
5	☐	625.000	630.126	4702896.98	0.4524	A	0.6
6	☐	1250.000	1248.674	9345911.49	0.8966	A	0.3
7	☐	2500.000	2515.576	18650567.95	1.8062	A	0.8
8	☐	5000.000	4991.770	37663845.63	3.5841	A	0.7
9	☐			55654.59	0.0060	P	3.5

$$y = 7.1801\text{E-}004 * x + 6.9354\text{E-}006$$

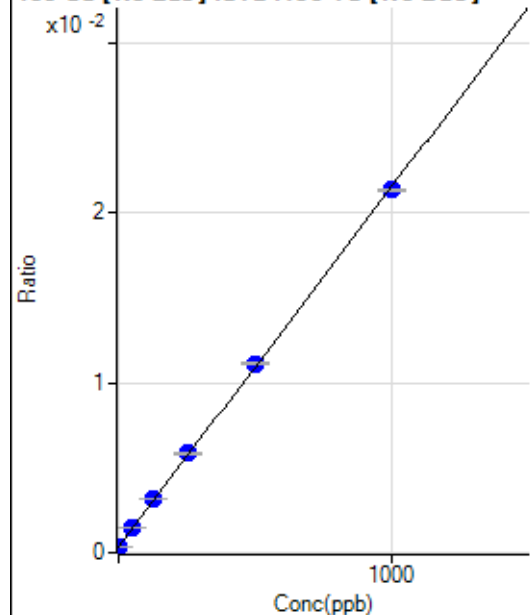
$$R = 1.0000$$

$$DL = 0.008575$$

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	4756.58	0.0004	P	4.9
2	☐	0.100					
3	☐	1.000	0.811	4864.93	0.0004	P	8.0
4	☐	50.000	52.647	19263.75	0.0015	P	1.3
5	☐	125.000	134.965	41712.46	0.0032	P	0.9
6	☐	250.000	258.773	76690.77	0.0058	P	1.1
7	☐	500.000	508.163	145029.43	0.0111	P	0.9
8	☐	1000.000	992.347	283567.31	0.0213	P	0.4
9	☐			4236.94	0.0004	P	6.8

$$y = 2.1145\text{E-}005 * x + 3.5342\text{E-}004$$

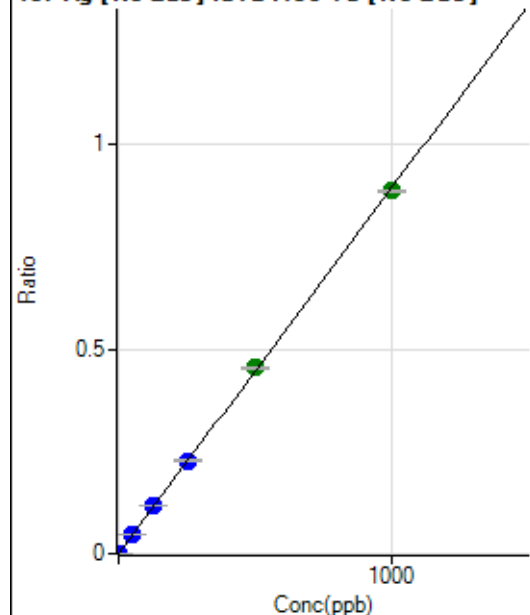
$$R = 0.9999$$

$$DL = 2.454$$

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	80.56	0.0000	P	36.8
2	☐	0.100					
3	☐	1.000	1.043	12305.94	0.0009	P	0.8
4	☐	50.000	54.081	634250.78	0.0483	P	0.2
5	☐	125.000	132.900	1543151.16	0.1187	P	1.0
6	☐	250.000	255.013	2997483.29	0.2277	P	0.3
7	☐	500.000	509.858	5948152.35	0.4552	A	1.0
8	☐	1000.000	992.626	11777623.09	0.8862	A	0.6
9	☐			2561.47	0.0002	P	12.7

$$y = 8.9276E-004 * x + 5.9936E-006$$

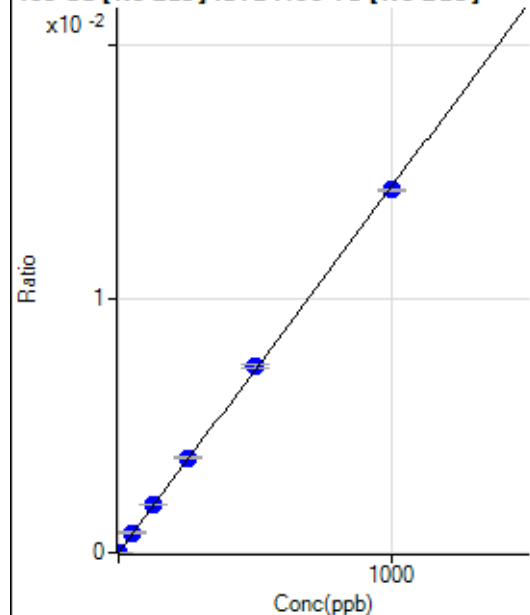
$$R = 0.9999$$

$$DL = 0.007415$$

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	22.23	0.0000	P	173.2
2	☐	0.100					
3	☐	1.000	1.007	212.51	0.0000	P	17.9
4	☐	50.000	54.524	10355.35	0.0008	P	2.5
5	☐	125.000	132.724	24927.83	0.0019	P	1.2
6	☐	250.000	259.596	49335.89	0.0037	P	0.5
7	☐	500.000	509.717	96124.83	0.0074	P	1.2
8	☐	1000.000	991.551	190163.70	0.0143	P	0.2
9	☐			81.95	0.0000	P	16.9

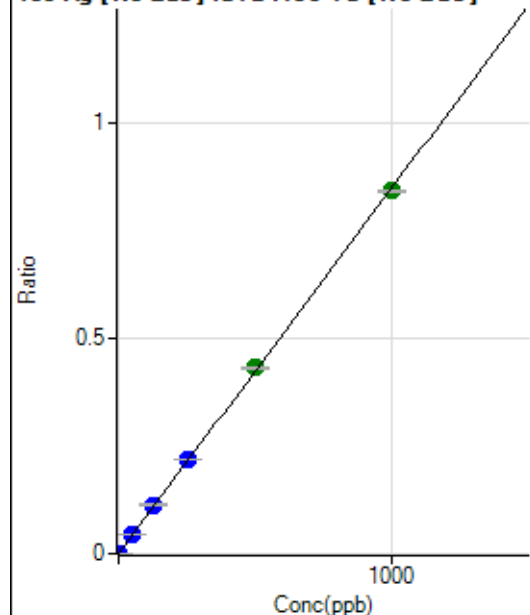
$$y = 1.4429E-005 * x + 1.6588E-006$$

$$R = 0.9999$$

$$DL = 0.5974$$

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	69.45	0.0000	P	30.3
2	☐	0.100					
3	☐	1.000	1.062	11872.16	0.0009	P	2.0
4	☐	50.000	54.039	600852.18	0.0457	P	0.3
5	☐	125.000	133.397	1468460.36	0.1129	P	1.5
6	☐	250.000	255.894	2851693.79	0.2166	P	0.4
7	☐	500.000	508.181	5620927.82	0.4301	A	0.9
8	☐	1000.000	993.184	11172596.69	0.8407	A	0.2
9	☐			2425.32	0.0002	P	8.3

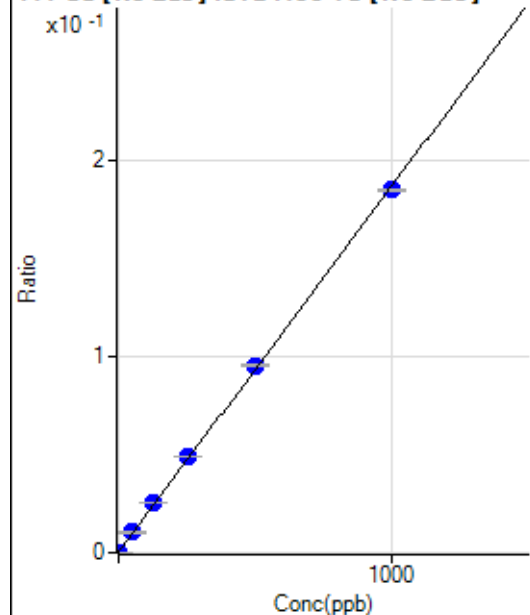
$$y = 8.4642\text{E-}004 * x + 5.1590\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.005537$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3319.60	0.0002	P	4.9
2	☐	0.100					
3	☐	1.000	0.988	5656.95	0.0004	P	3.5
4	☐	50.000	54.003	135568.43	0.0103	P	1.1
5	☐	125.000	135.239	331305.98	0.0255	P	2.2
6	☐	250.000	262.551	648128.66	0.0492	P	0.5
7	☐	500.000	509.595	1245570.46	0.0953	P	0.8
8	☐	1000.000	990.585	2459412.51	0.1851	P	0.3
9	☐			3729.38	0.0003	P	6.2

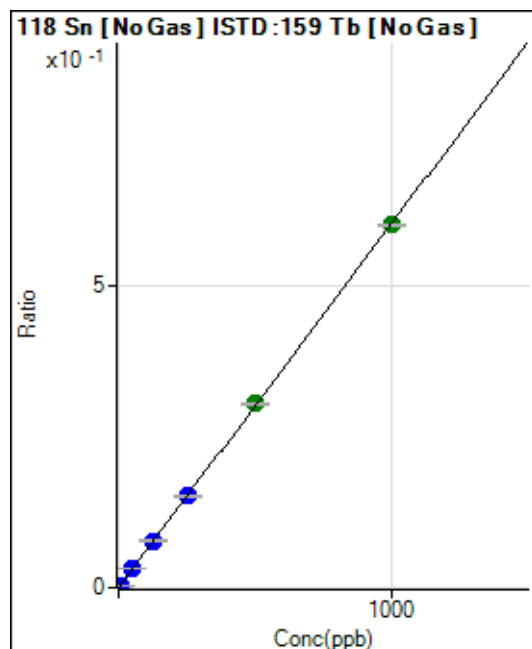
$$y = 1.8656\text{E-}004 * x + 2.4665\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.1961$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1316.78	0.0001	P	4.2
2	☐	0.500					
3	☐	5.000	4.958	40417.62	0.0031	P	0.7
4	☐	50.000	51.332	406632.48	0.0310	P	0.2
5	☐	125.000	128.828	1008552.82	0.0775	P	0.9
6	☐	250.000	251.479	1991779.56	0.1513	P	0.6
7	☐	500.000	504.754	3966667.23	0.3036	A	1.1
8	☐	1000.000	996.708	7965036.29	0.5993	A	0.5
9	☐			17124.92	0.0015	P	3.3

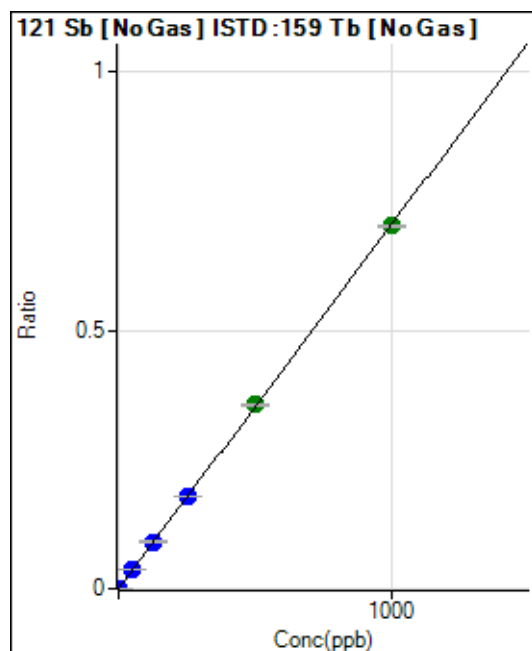
$$y = 6.0119\text{E-}004 * x + 9.7816\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.02029$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	63.89	0.0000	P	19.8
2	☐	0.200					
3	☐	2.000	1.952	18101.23	0.0014	P	1.8
4	☐	50.000	51.613	477262.03	0.0363	P	0.3
5	☐	125.000	128.878	1179901.63	0.0907	P	0.9
6	☐	250.000	253.039	2345094.82	0.1781	P	0.7
7	☐	500.000	504.411	4640003.49	0.3551	A	0.3
8	☐	1000.000	996.469	9322293.70	0.7014	A	0.3
9	☐			15345.07	0.0013	P	4.0

$$y = 7.0391\text{E-}004 * x + 4.7451\text{E-}006$$

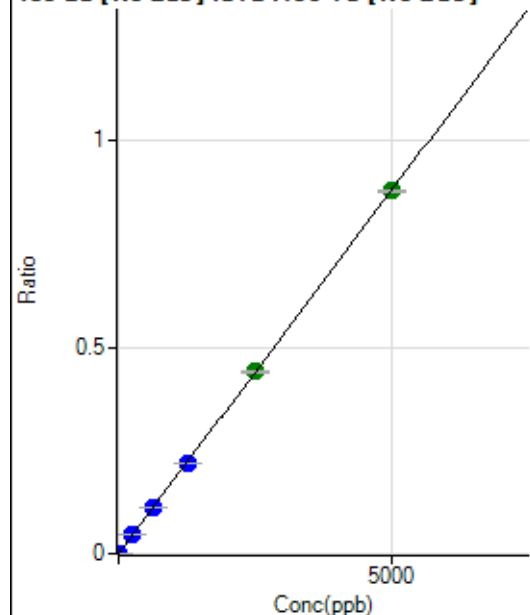
$$R = 1.0000$$

$$DL = 0.004003$$

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	22.22	0.0000	P	42.6
2	☐	1.000					
3	☐	10.000	9.816	22705.36	0.0017	P	0.9
4	☐	250.000	256.322	592618.93	0.0451	P	0.5
5	☐	625.000	636.182	1456359.71	0.1120	P	0.9
6	☐	1250.000	1247.272	2890425.45	0.2195	P	0.4
7	☐	2500.000	2511.527	5776756.73	0.4421	A	1.0
8	☐	5000.000	4993.205	11680778.13	0.8789	A	0.3
9	☐			3378.35	0.0003	P	9.0

$$y = 1.7602\text{E-}004 * x + 1.6480\text{E-}006$$

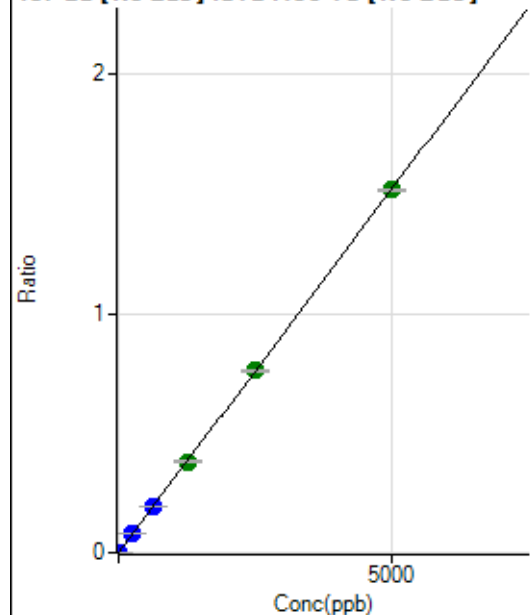
$$R = 1.0000$$

$$DL = 0.01196$$

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	56.1
2	☐	1.000					
3	☐	10.000	9.845	39315.04	0.0030	P	0.5
4	☐	250.000	257.228	1026944.73	0.0782	P	0.3
5	☐	625.000	640.370	2531434.97	0.1946	P	0.8
6	☐	1250.000	1253.836	5017402.28	0.3811	A	0.6
7	☐	2500.000	2506.454	9955218.28	0.7618	A	0.7
8	☐	5000.000	4993.532	20171314.52	1.5177	A	0.2
9	☐			6115.53	0.0005	P	9.4

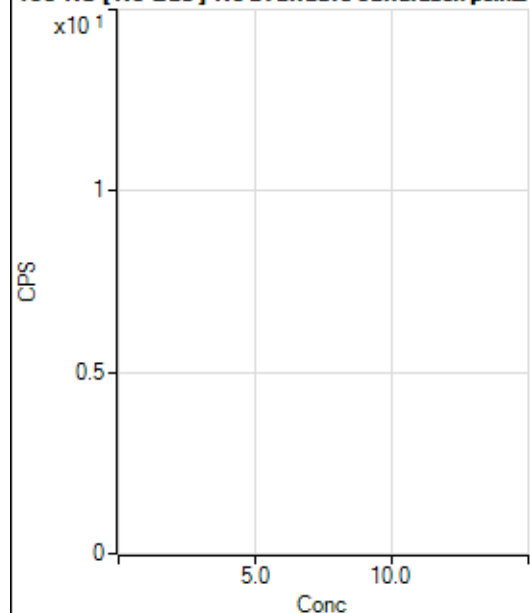
$$y = 3.0394\text{E-}004 * x + 2.2647\text{E-}006$$

$$R = 1.0000$$

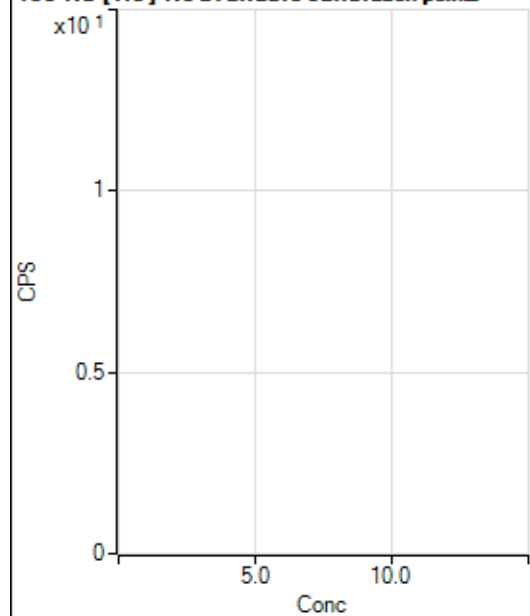
$$DL = 0.01254$$

Weight: <None>

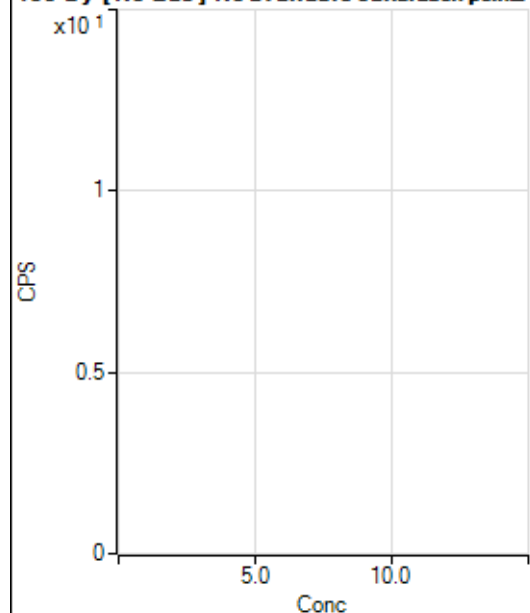
Min Conc: 0

150 Nd [No Gas] No available calibration points

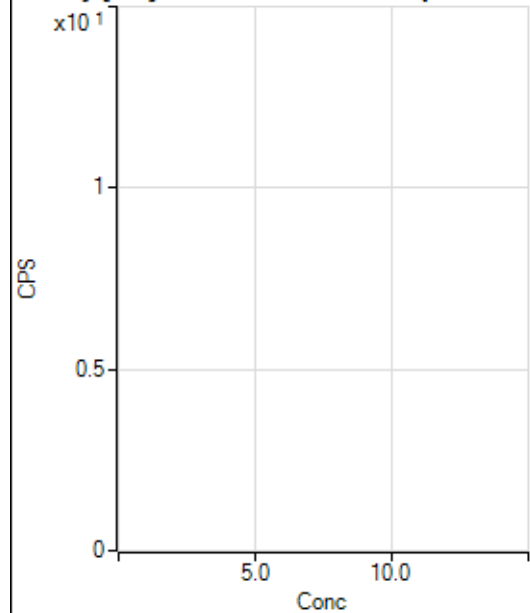
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	100.0
2	☐						
3	☐			395.76		P	168.8
4	☐			57.78		P	24.0
5	☐			155.56		P	26.2
6	☐			295.57		P	14.7
7	☐			564.48		P	9.5
8	☐			1028.97		P	13.8
9	☐			106.67		P	22.5

150 Nd [He] No available calibration points

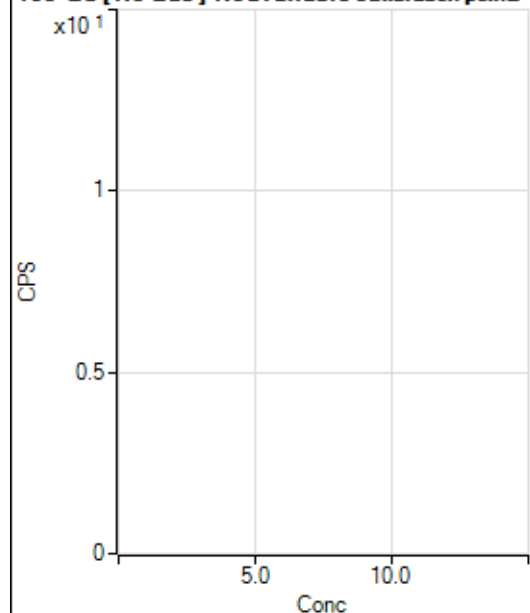
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐						
3	☐			2.22		P	173.2
4	☐			7.78		P	24.7
5	☐			12.22		P	31.5
6	☐			26.67		P	50.0
7	☐			81.11		P	29.2
8	☐			146.67		P	18.0
9	☐			57.78		P	14.5

156 Dy [No Gas] No available calibration points

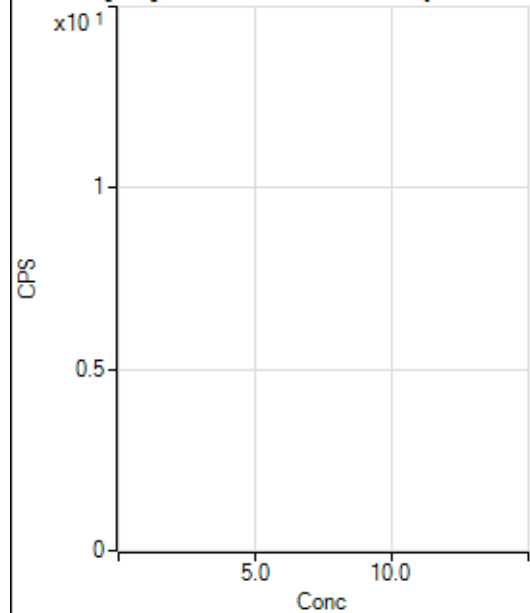
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.89		P	34.7
2	☐						
3	☐			2.78		P	173.2
4	☐			30.56		P	56.8
5	☐			38.89		P	32.7
6	☐			61.11		P	28.4
7	☐			155.57		P	21.7
8	☐			236.12		P	13.4
9	☐			108.34		P	55.5

156 Dy [He] No available calibration points

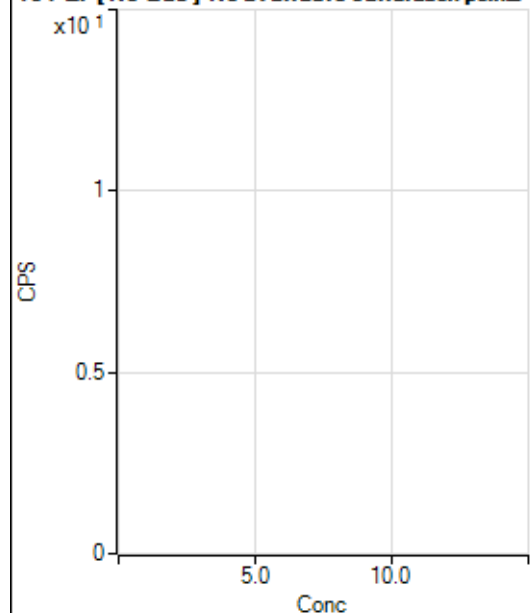
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.6
2	☐						
3	☐			4.44		P	43.4
4	☐			12.22		P	41.7
5	☐			34.44		P	5.6
6	☐			52.22		P	20.5
7	☐			107.78		P	14.6
8	☐			206.67		P	20.1
9	☐			56.67		P	10.2

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

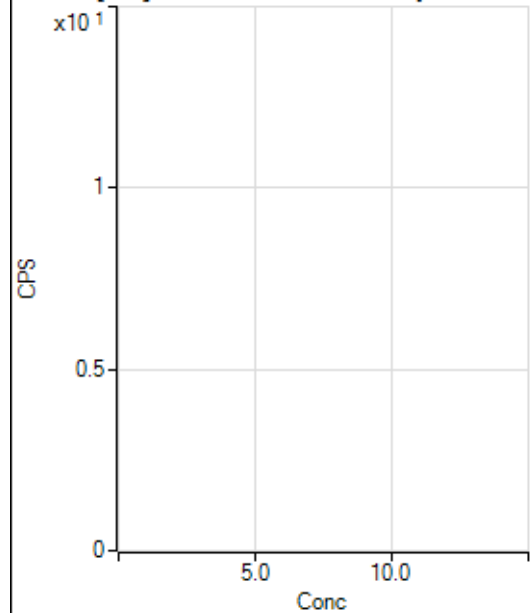
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			69.45		P	6.9
2	☐						
3	☐			86.11		P	20.1
4	☐			130.56		P	47.9
5	☐			102.78		P	32.8
6	☐			108.34		P	27.7
7	☐			127.78		P	19.9
8	☐			158.34		P	21.1
9	☐			152.78		P	31.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			225.56		P	11.9
2	☐						
3	☐			176.67		P	11.5
4	☐			224.45		P	9.7
5	☐			203.34		P	13.4
6	☐			200.00		P	14.8
7	☐			232.23		P	7.9
8	☐			236.67		P	5.1
9	☐			221.12		P	3.8

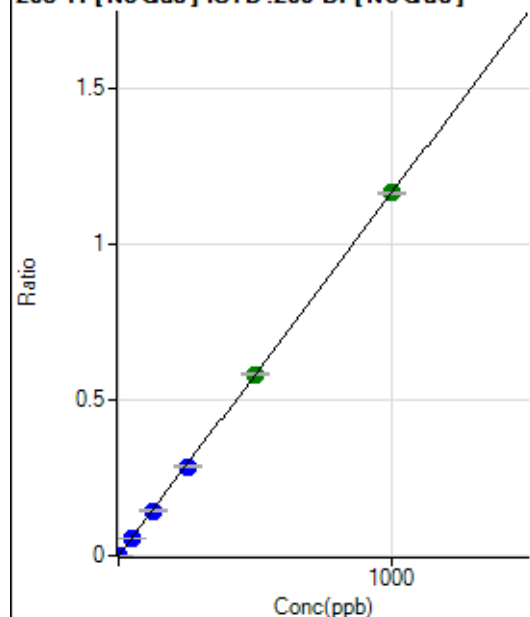
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.67		P	52.9
2	☐						
3	☐			63.89		P	27.2
4	☐			44.45		P	71.0
5	☐			41.67		P	52.9
6	☐			61.11		P	20.8
7	☐			50.00		P	28.9
8	☐			102.78		P	59.8
9	☐			55.56		P	22.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			20.00		P	16.7
2	☐						
3	☐			22.22		P	22.9
4	☐			17.78		P	10.8
5	☐			26.67		P	0.0
6	☐			26.67		P	12.5
7	☐			34.45		P	39.1
8	☐			24.44		P	20.8
9	☐			34.44		P	36.6

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	36.11	0.0000	P	35.0
2	☐	0.100					
3	☐	1.000	0.965	9375.88	0.0011	P	3.4
4	☐	50.000	49.616	478821.75	0.0578	P	1.1
5	☐	125.000	124.483	1178154.15	0.1449	P	0.9
6	☐	250.000	245.983	2360571.73	0.2864	P	0.6
7	☐	500.000	500.708	4715180.62	0.5829	A	0.3
8	☐	1000.000	1000.734	9375902.12	1.1651	A	0.6
9	☐			5201.27	0.0008	P	3.3

$$y = 0.0012 * x + 4.2773E-006$$

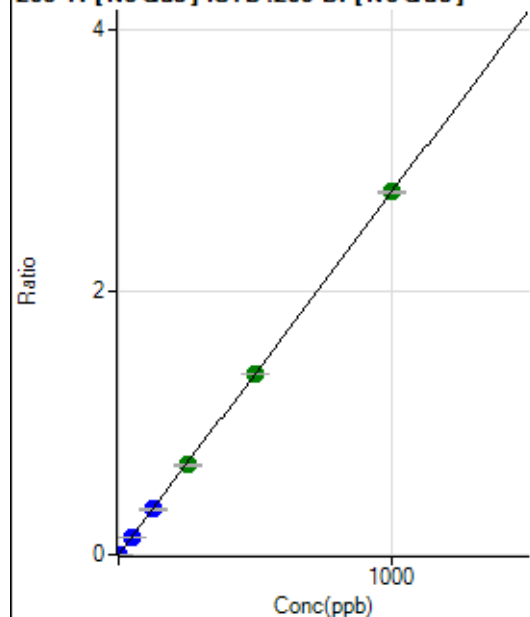
$$R = 1.0000$$

$$DL = 0.003859$$

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	97.23	0.0000	P	39.3
2	☐	0.100					
3	☐	1.000	0.959	22080.26	0.0027	P	0.7
4	☐	50.000	49.674	1134948.24	0.1369	P	0.5
5	☐	125.000	124.866	2797974.63	0.3442	P	0.4
6	☐	250.000	246.867	5608693.22	0.6804	A	0.7
7	☐	500.000	498.853	11121690.96	1.3750	A	0.1
8	☐	1000.000	1001.390	22211945.81	2.7601	A	0.6
9	☐			12256.20	0.0019	P	2.5

$$y = 0.0028 * x + 1.1516E-005$$

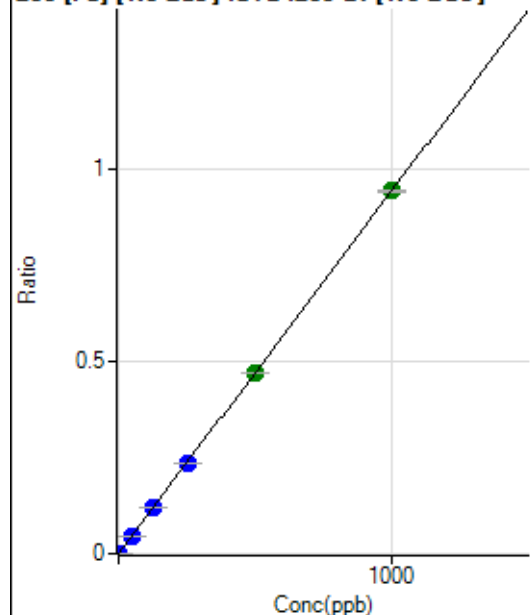
$$R = 1.0000$$

$$DL = 0.00493$$

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	229.64	0.0000	P	17.0
2	☐	0.100					
3	☐	1.000	0.966	7782.13	0.0009	P	2.8
4	☐	50.000	49.689	387415.21	0.0467	P	1.3
5	☐	125.000	125.874	962235.96	0.1184	P	0.2
6	☐	250.000	248.540	1926226.62	0.2337	P	0.2
7	☐	500.000	498.246	3788968.14	0.4684	A	0.3
8	☐	1000.000	1001.148	7574304.63	0.9412	A	0.8
9	☐			42149.16	0.0064	P	0.6

$$y = 9.4009\text{E-}004 * x + 2.7214\text{E-}005$$

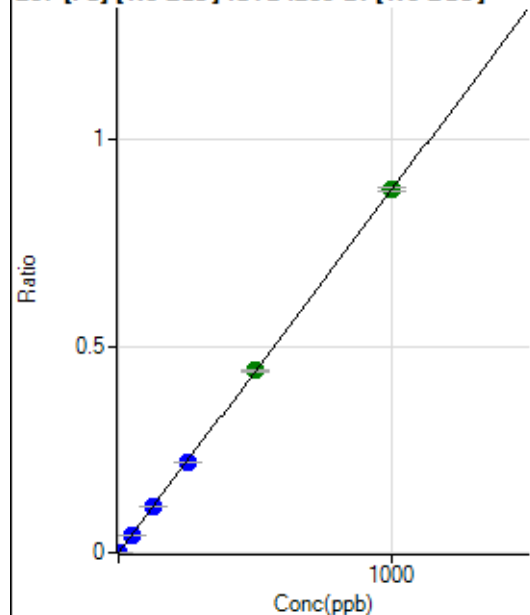
$$R = 1.0000$$

$$DL = 0.01474$$

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	235.20	0.0000	P	15.9
2	☐	0.100					
3	☐	1.000	0.971	7322.59	0.0009	P	1.4
4	☐	50.000	49.618	361339.91	0.0436	P	0.7
5	☐	125.000	124.975	892278.03	0.1098	P	0.7
6	☐	250.000	247.522	1791678.08	0.2174	P	0.2
7	☐	500.000	501.028	3558583.15	0.4399	A	0.2
8	☐	1000.000	1000.128	7066917.98	0.8782	A	1.0
9	☐			37098.75	0.0057	P	1.3

$$y = 8.7802\text{E-}004 * x + 2.7879\text{E-}005$$

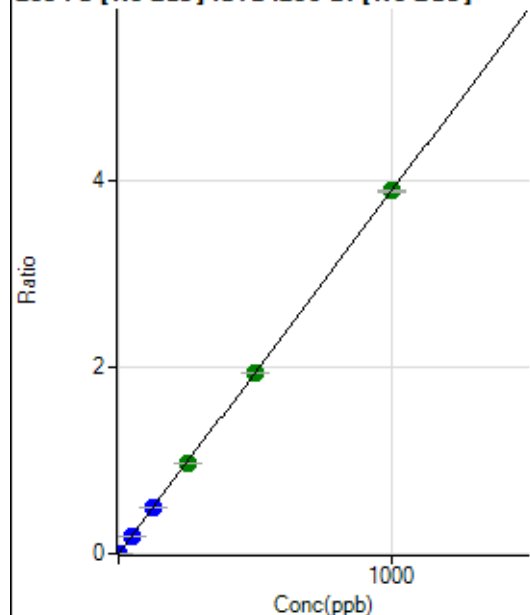
$$R = 1.0000$$

$$DL = 0.01514$$

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	992.64	0.0001	P	9.1
2	☐	0.100					
3	☐	1.000	0.983	32753.93	0.0039	P	0.7
4	☐	50.000	49.765	1603673.26	0.1935	P	0.7
5	☐	125.000	125.181	3954856.33	0.4865	P	0.7
6	☐	250.000	247.733	7935057.05	0.9626	A	0.3
7	☐	500.000	500.317	15724720.28	1.9440	A	0.2
8	☐	1000.000	1000.397	31280731.08	3.8870	A	0.8
9	☐			169656.90	0.0259	P	0.6

$$y = 0.0039 * x + 1.1766E-004$$

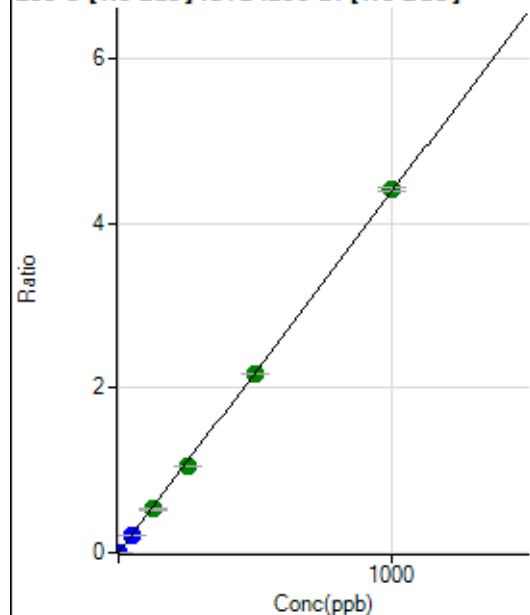
$$R = 1.0000$$

$$DL = 0.008222$$

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	55.56	0.0000	P	67.7
2	☐	0.100					
3	☐	1.000	0.913	33315.75	0.0040	P	1.4
4	☐	50.000	47.489	1724099.06	0.2080	P	1.0
5	☐	125.000	119.992	4272520.54	0.5255	A	0.5
6	☐	250.000	240.445	8680536.39	1.0531	A	0.9
7	☐	500.000	494.818	17530002.47	2.1672	A	0.3
8	☐	1000.000	1005.731	35448621.97	4.4049	A	1.0
9	☐			7802.71	0.0012	P	8.8

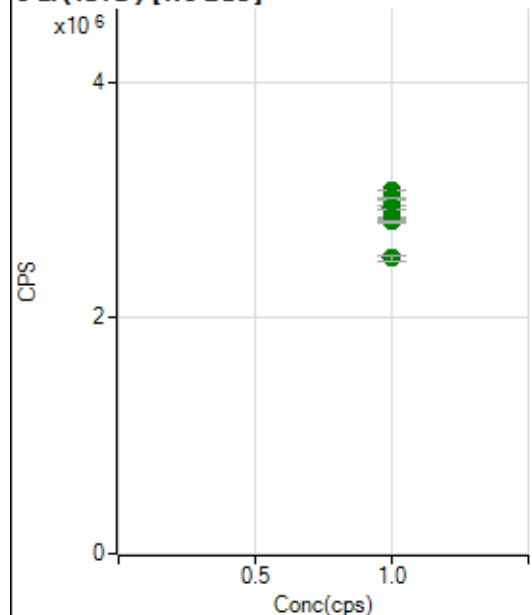
$$y = 0.0044 * x + 6.5834E-006$$

$$R = 0.9999$$

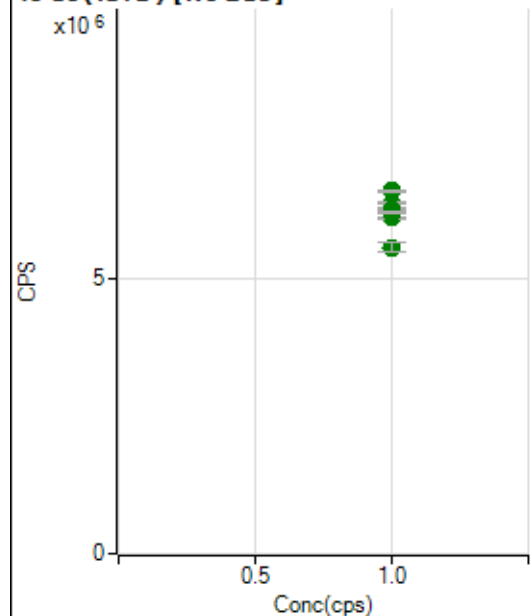
$$DL = 0.003053$$

Weight: <None>

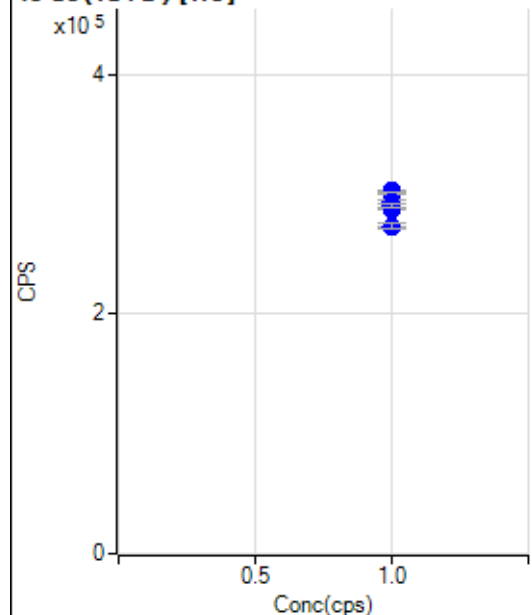
Min Conc: 0

6 Li (ISTD) [No Gas]

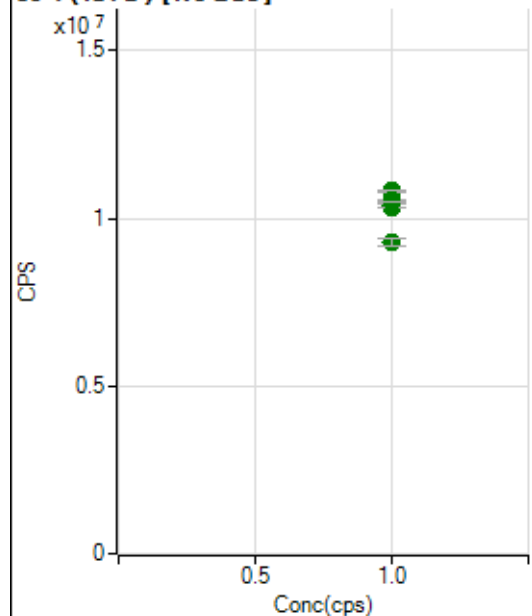
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3079769.68		A	0.2
2	☐	1.000					
3	☐	1.000		3020401.35		A	0.5
4	☐	1.000		3015138.70		A	0.6
5	☐	1.000		2935424.82		A	0.8
6	☐	1.000		2923065.79		A	0.2
7	☐	1.000		2849553.15		A	0.4
8	☐	1.000		2820353.15		A	0.5
9	☐	1.000		2506220.87		A	1.8

45 Sc (ISTD) [No Gas]

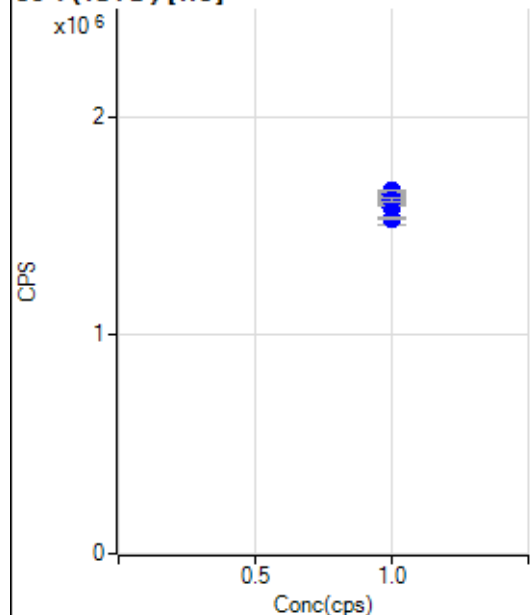
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6591474.23		A	0.5
2	☐	1.000					
3	☐	1.000		6364560.73		A	0.3
4	☐	1.000		6375142.07		A	0.6
5	☐	1.000		6261947.75		A	1.3
6	☐	1.000		6244087.34		A	0.6
7	☐	1.000		6100919.76		A	0.2
8	☐	1.000		6201334.25		A	0.6
9	☐	1.000		5568280.94		A	2.7

45 Sc (ISTD) [He]

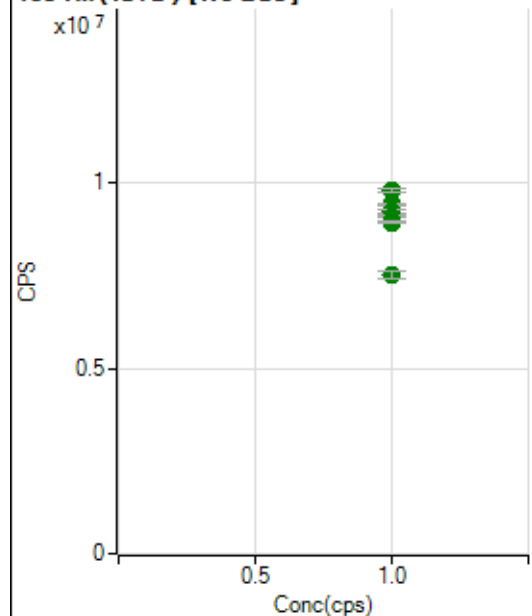
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		302942.28		P	0.9
2	☐	1.000					
3	☐	1.000		301657.23		P	1.1
4	☐	1.000		300912.99		P	0.6
5	☐	1.000		286872.35		P	9.6
6	☐	1.000		293776.50		P	1.0
7	☐	1.000		287340.81		P	0.1
8	☐	1.000		290768.60		P	0.9
9	☐	1.000		273360.44		P	1.5

89 Y (ISTD) [No Gas]

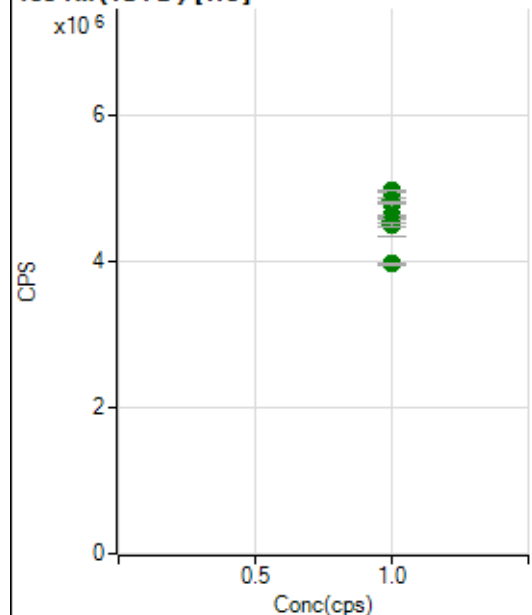
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10820694.42		A	0.5
2	☐	1.000					
3	☐	1.000		10483589.91		A	0.4
4	☐	1.000		10539975.68		A	0.2
5	☐	1.000		10394951.58		A	1.2
6	☐	1.000		10424152.83		A	0.2
7	☐	1.000		10325896.03		A	0.2
8	☐	1.000		10508585.33		A	0.2
9	☐	1.000		9288091.11		A	2.5

89 Y (ISTD) [He]

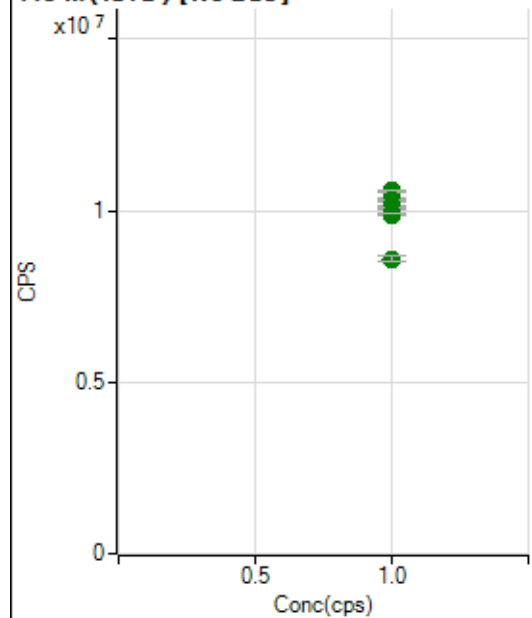
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1654348.39		P	0.6
2	☐	1.000					
3	☐	1.000		1650522.25		P	1.3
4	☐	1.000		1661134.46		P	0.2
5	☐	1.000		1582018.52		P	9.7
6	☐	1.000		1623725.29		P	0.6
7	☐	1.000		1598351.12		P	0.2
8	☐	1.000		1620883.24		P	0.8
9	☐	1.000		1534916.75		P	0.2

103 Rh (ISTD) [No Gas]

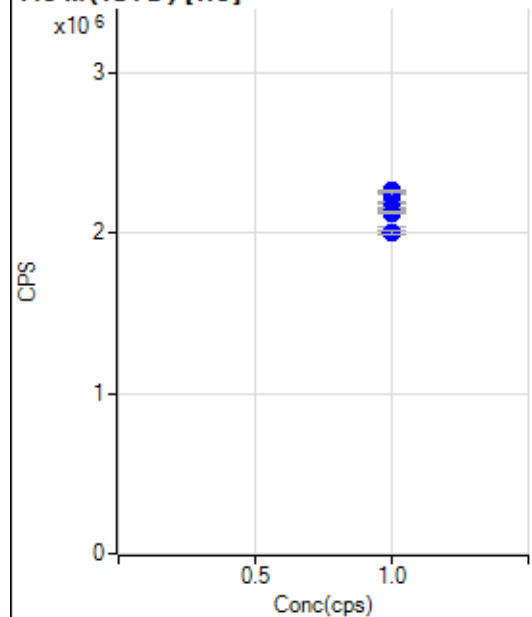
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9785440.85		A	1.0
2	☐	1.000					
3	☐	1.000		9452304.81		A	0.3
4	☐	1.000		9410105.85		A	0.6
5	☐	1.000		9234415.83		A	1.4
6	☐	1.000		9099603.85		A	0.5
7	☐	1.000		8943893.60		A	0.3
8	☐	1.000		8952425.20		A	0.3
9	☐	1.000		7512045.05		A	2.6

103 Rh (ISTD) [He]

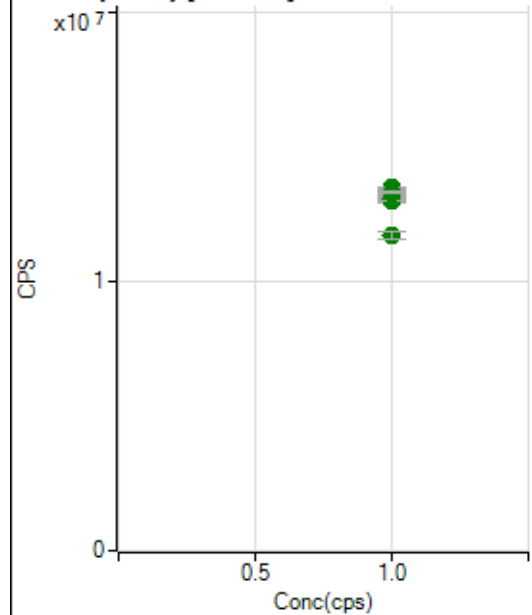
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4975347.36		A	0.6
2	☐	1.000					
3	☐	1.000		4845222.84		A	1.0
4	☐	1.000		4811310.59		A	0.1
5	☐	1.000		4577491.22		A	9.7
6	☐	1.000		4634761.32		A	0.4
7	☐	1.000		4562737.19		A	0.6
8	☐	1.000		4512563.65		A	1.2
9	☐	1.000		3971236.71		A	0.3

115 In (ISTD) [No Gas]

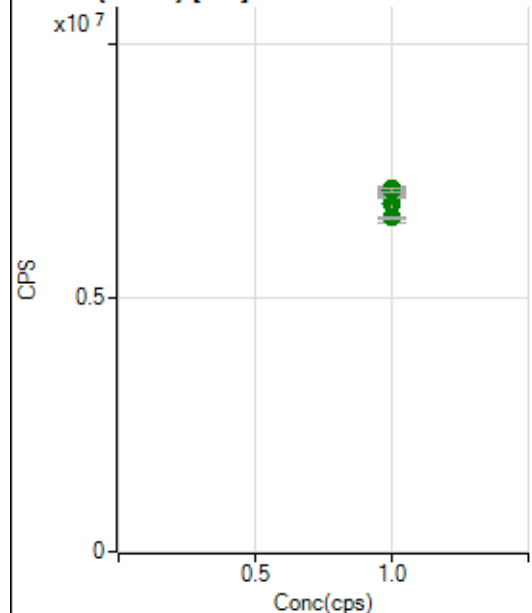
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10575272.71		A	0.2
2	☐	1.000					
3	☐	1.000		10320565.72		A	0.7
4	☐	1.000		10268827.61		A	0.4
5	☐	1.000		10134861.41		A	0.8
6	☐	1.000		10064732.54		A	0.2
7	☐	1.000		9861160.04		A	0.1
8	☐	1.000		9908802.58		A	0.1
9	☐	1.000		8603651.72		A	2.3

115 In (ISTD) [He]

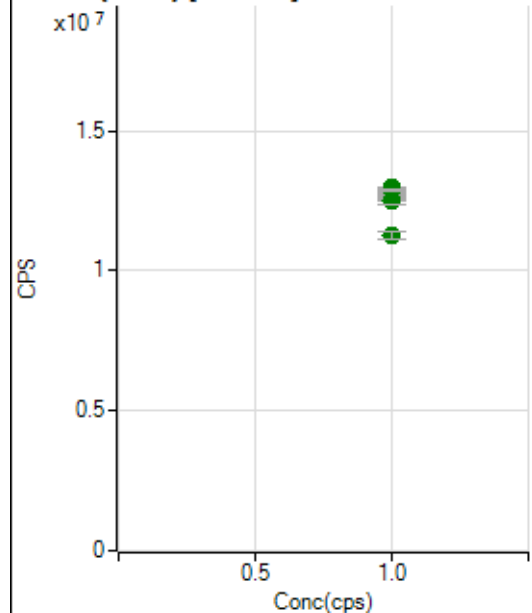
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2246369.40		P	0.5
2	☐	1.000					
3	☐	1.000		2253383.59		P	0.6
4	☐	1.000		2264270.30		P	0.5
5	☐	1.000		2153964.42		P	10.1
6	☐	1.000		2189256.84		P	0.4
7	☐	1.000		2158066.88		P	0.7
8	☐	1.000		2129792.71		P	1.0
9	☐	1.000		2001256.92		P	0.9

159 Tb (ISTD) [No Gas]

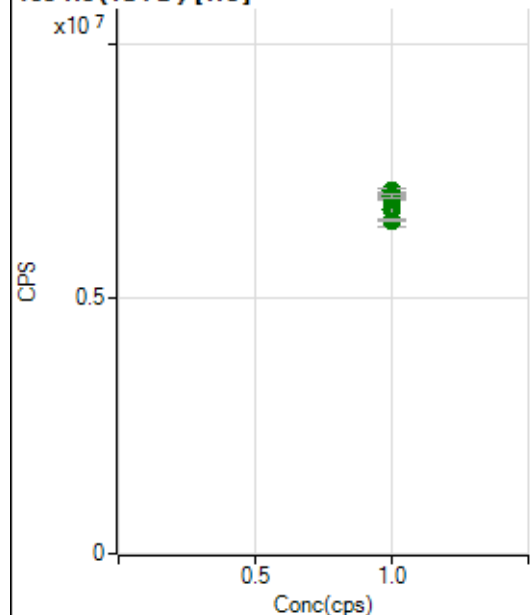
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13460897.02		A	0.6
2	☐	1.000					
3	☐	1.000		13128487.31		A	0.6
4	☐	1.000		13134842.58		A	0.3
5	☐	1.000		13006386.47		A	1.2
6	☐	1.000		13165823.83		A	0.3
7	☐	1.000		13068268.00		A	0.9
8	☐	1.000		13290378.41		A	0.3
9	☐	1.000		11707957.33		A	2.2

159 Tb (ISTD) [He]

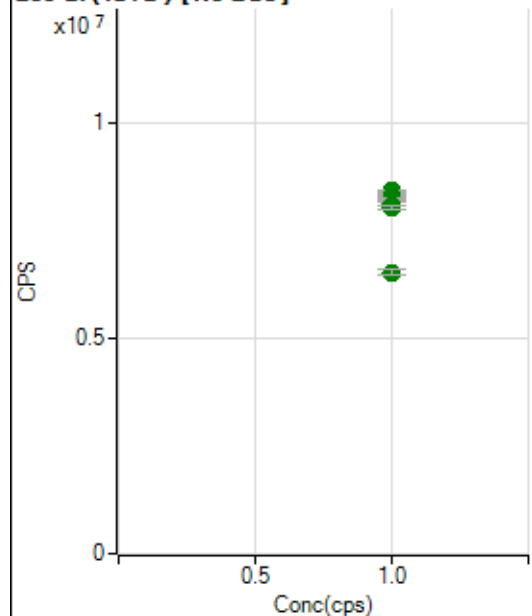
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7147960.24		A	1.1
2	☐	1.000					
3	☐	1.000		7084488.09		A	0.7
4	☐	1.000		7088418.16		A	0.2
5	☐	1.000		6849784.76		A	10.4
6	☐	1.000		7092197.47		A	0.3
7	☐	1.000		7000579.55		A	0.4
8	☐	1.000		7121024.06		A	1.3
9	☐	1.000		6574442.47		A	0.5

165 Ho (ISTD) [No Gas]

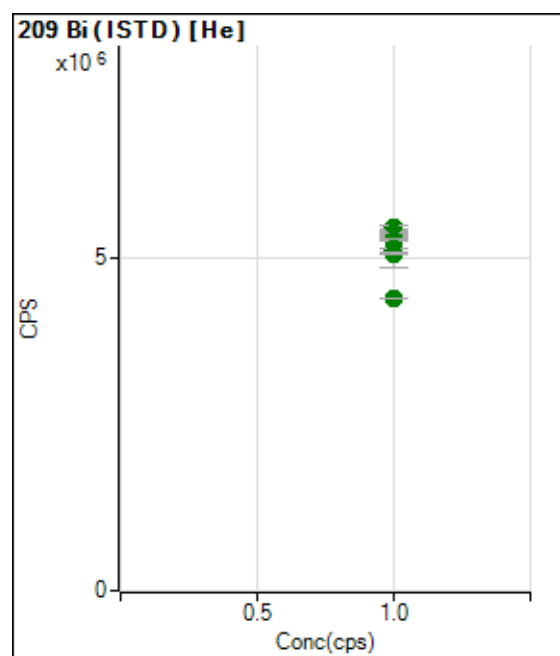
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12956271.21		A	0.6
2	☐	1.000					
3	☐	1.000		12571977.11		A	1.2
4	☐	1.000		12680641.51		A	0.4
5	☐	1.000		12464788.82		A	1.5
6	☐	1.000		12691504.97		A	0.3
7	☐	1.000		12719578.84		A	0.4
8	☐	1.000		12884541.61		A	0.8
9	☐	1.000		11282517.61		A	2.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7116776.35		A	1.0
2	☐	1.000					
3	☐	1.000		7008361.56		A	0.5
4	☐	1.000		7018561.70		A	0.4
5	☐	1.000		6747604.20		A	9.7
6	☐	1.000		6987142.47		A	0.7
7	☐	1.000		6953684.20		A	0.5
8	☐	1.000		7022458.51		A	0.9
9	☐	1.000		6538329.69		A	0.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8437720.08		A	0.2
2	☐	1.000					
3	☐	1.000		8317788.70		A	0.6
4	☐	1.000		8288998.21		A	0.3
5	☐	1.000		8129888.83		A	1.2
6	☐	1.000		8243116.13		A	0.8
7	☐	1.000		8088772.52		A	0.4
8	☐	1.000		8047869.95		A	0.8
9	☐	1.000		6544947.61		A	2.0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5457180.48		A	1.0
2	☐	1.000					
3	☐	1.000		5377605.54		A	0.8
4	☐	1.000		5315532.31		A	0.2
5	☐	1.000		5114600.62		A	9.9
6	☐	1.000		5277171.73		A	0.4
7	☐	1.000		5146259.40		A	0.4
8	☐	1.000		5071011.42		A	0.6
9	☐	1.000		4401984.52		A	0.1

US EPA Tune Check Sample Report

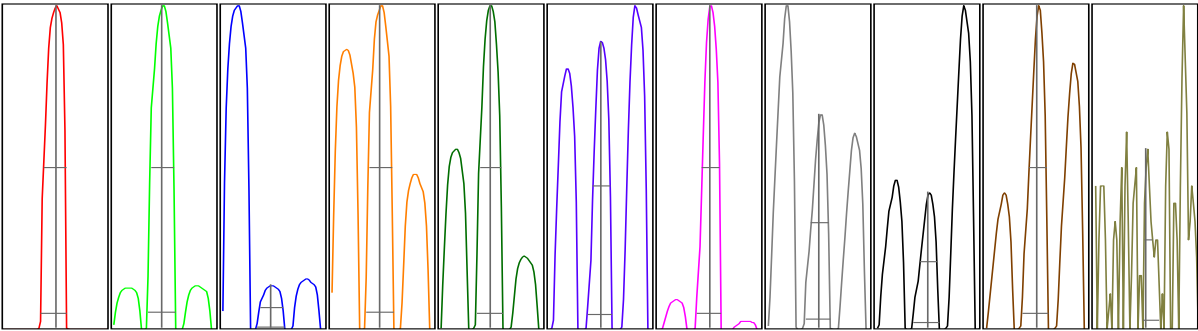
Batch Folder D:\ICP-MS Data\P7080218-MS .b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	12158	0.24	5.00	
24	527958	0.20	5.00	
25	70230	0.37	5.00	
26	80411	0.13	5.00	
59	90355	0.23	5.00	
113	11783	0.31	5.00	
115	143733	0.80	5.00	
206	34650	0.47	5.00	
207	31088	0.61	5.00	
208	74003	0.43	5.00	
220	0	37.42		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	12134	12182	12130	12149	12197
24	527479	527044	527210	528464	529593
25	70101	70610	70033	70392	70015
26	80388	80273	80407	80417	80569
59	90096	90611	90225	90486	90357
113	11774	11820	11778	11813	11729
115	144836	144551	143926	143424	141926
206	34416	34730	34770	34790	34545
207	30909	31099	31279	31272	30881
208	73733	74410	74021	74199	73655
220	0	0	0	0	0

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	19790	9.05	8.9 - 9.1		0.743	0.900	
24	818386	23.95	23.9 - 24.1		0.829	0.900	
25	109677	24.95	24.9 - 25.1		0.825	0.900	
26	126928	25.95	25.9 - 26.1		0.828	0.900	
59	152510	59.00	58.9 - 59.1		0.785	0.900	
113	23162	113.05	112.9 - 113.1		0.714	0.900	
115	281515	115.05	114.9 - 115.1		0.720	0.900	
206	68532	206.05	205.9 - 206.1		0.739	0.900	
207	62602	207.05	206.9 - 207.1		0.772	0.900	
208	148495	208.05	207.9 - 208.1		0.769	0.900	
220	1	220.05	-		0.491		

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 268 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.80	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.37 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	8.0	V	Deflect	15.2	V
Extract 2	-120.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-60	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination		5.0 V
He Flow	0.0	mL/min	OctP RF	200	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	24481	0.73	
89	44877	0.72	
205	32244	0.80	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	24628	24484	24623	24481	24189
89	45199	44815	45058	44950	44361
205	32413	32152	32340	32477	31839

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.80	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.37 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	8.7	V	Deflect	2.6	V
Extract 2	-120.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-65	V	Cell Exit	-60	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	Yes		OctP Bias	-18.0	V	Energy Discrimination		5.0 V
He Flow	4.1	mL/min	OctP RF	200	V			