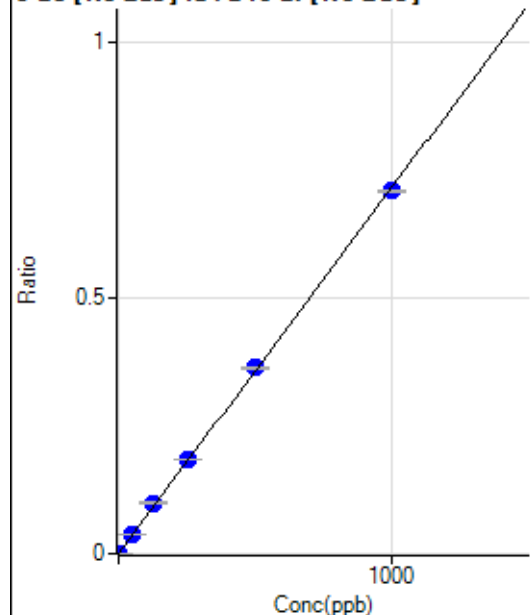


Batch Folder: D:\ICP-MS Data\1\DATA\P7030720-MS.b\
Analysis File: P7030720-MS.batch.bin
DA Date-Time: 2020-03-07 16:00:36
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-03-07 14:59:56
2	004CALS.d	S02	2020-03-07 15:03:29
3	005CALS.d	S03	2020-03-07 15:08:11
4	006CALS.d	S04	2020-03-07 15:12:33
5	007CALS.d	S05	2020-03-07 15:16:13
6	008CALS.d	S06	2020-03-07 15:19:46
7	009CALS.d	S07	2020-03-07 15:23:14
8	010CALS.d	S08	2020-03-07 15:26:43

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	64.82	0.0000	P	27.7
2	☐	1.000	1.085	4082.15	0.0008	P	3.8
3	☐	50.000	53.465	190705.15	0.0382	P	0.7
4	☐	125.000	139.257	489076.09	0.0994	P	0.9
5	☐	250.000	258.731	893759.09	0.1847	P	0.5
6	☐	500.000	507.627	1697994.63	0.3623	P	1.8
7	☐	1000.000	992.048	3237489.77	0.7081	P	0.3
8	☐			440.76	0.0001	P	24.6

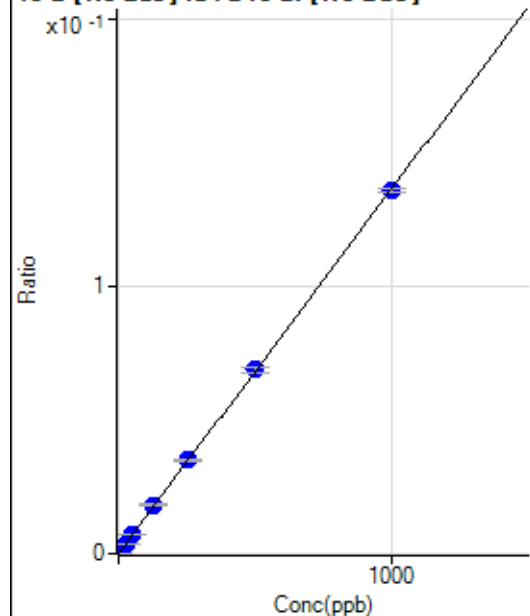
$$y = 7.1373\text{E-}004 * x + 1.2602\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.01466$$

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	338.91	0.0001	P	11.2
2	☐	25.000	25.863	18670.60	0.0036	P	2.5
3	☐	50.000	52.320	36032.94	0.0072	P	3.0
4	☐	125.000	134.077	90412.03	0.0184	P	2.4
5	☐	250.000	257.061	170222.34	0.0352	P	1.7
6	☐	500.000	503.719	322697.37	0.0689	P	2.2
7	☐	1000.000	995.103	621699.83	0.1360	P	0.9
8	☐			13551.03	0.0032	P	7.4

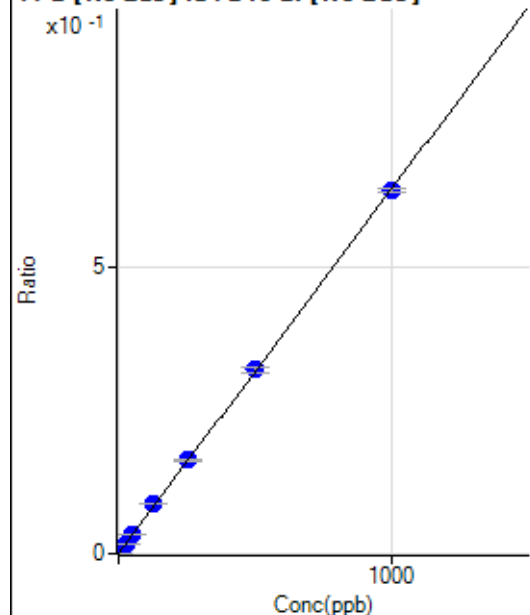
$$y = 1.3658\text{E-}004 * x + 6.5939\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.1621$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1764.08	0.0003	P	3.5
2	☐	25.000	25.787	86587.46	0.0167	P	0.4
3	☐	50.000	52.805	168911.28	0.0338	P	1.4
4	☐	125.000	135.397	423895.88	0.0862	P	0.8
5	☐	250.000	255.593	785635.37	0.1623	P	1.4
6	☐	500.000	503.582	1497369.65	0.3195	P	2.1
7	☐	1000.000	995.351	2885960.81	0.6312	P	0.9
8	☐			61911.67	0.0148	P	7.5

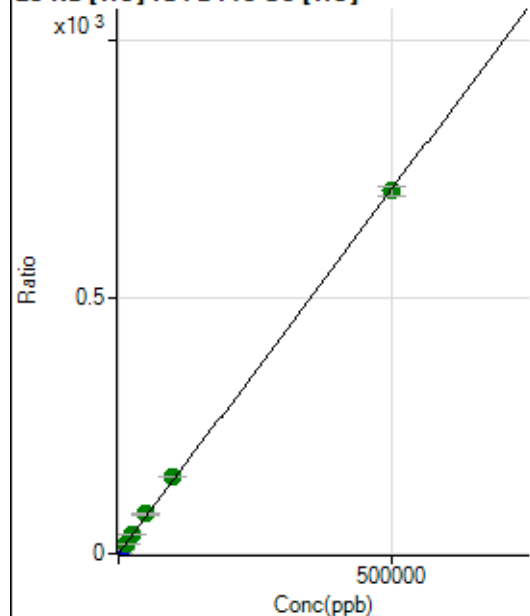
$$y = 6.3379E-004 * x + 3.4285E-004$$

$$R = 0.9999$$

$$DL = 0.05674$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	15747.70	0.0359	P	1.4
2	☐	500.000	558.151	366243.50	0.8282	P	0.3
3	☐	5000.000	5515.392	3322224.75	7.8657	P	0.4
4	☐	12500.000	14208.259	8335758.00	20.2063	A	0.2
5	☐	25000.000	27493.349	15422695.83	39.0662	A	0.6
6	☐	50000.000	54144.136	30372730.54	76.9004	A	0.5
7	☐	100000.00	105962.91	62346192.37	150.4637	A	0.7
8	☐	500000.00	498220.41	297662359.4	707.3232	A	2.9

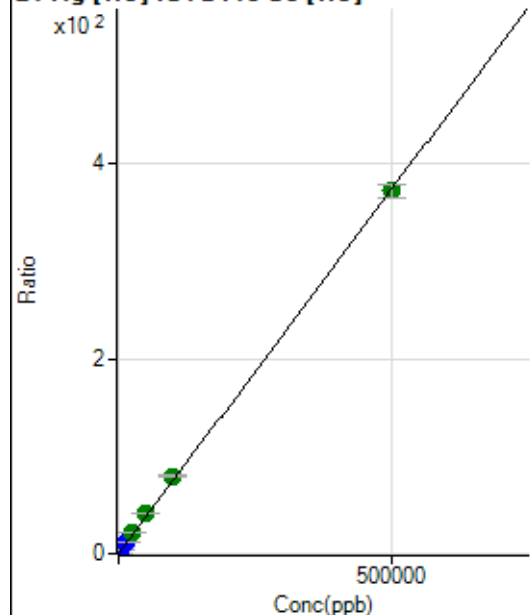
$$y = 0.0014 * x + 0.0359$$

$$R = 0.9999$$

$$DL = 1.09$$

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	177.79	0.0004	P	4.3
2	☐	500.000	571.670	188982.33	0.4274	P	2.1
3	☐	5000.000	5677.024	1791202.90	4.2411	P	0.7
4	☐	12500.000	14722.151	4536893.33	10.9976	P	0.1
5	☐	25000.000	27987.998	8253593.94	20.9070	A	1.0
6	☐	50000.000	54853.318	16183218.42	40.9750	A	0.0
7	☐	100000.00	106584.53	32990194.84	79.6175	A	0.7
8	☐	500000.00	497985.96	156535028.5	371.9886	A	3.4

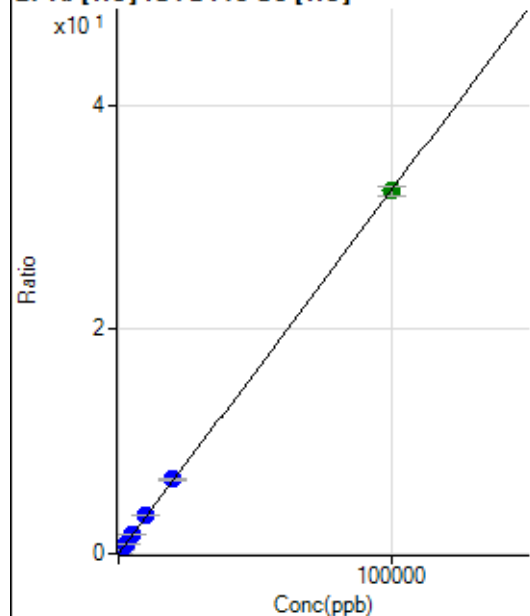
$$y = 7.4699\text{E-}004 * x + 4.0472\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.07044$$

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	38.89	0.0001	P	88.9
2	☐	20.000	20.802	3019.87	0.0068	P	5.2
3	☐	1000.000	1086.956	148870.14	0.3525	P	1.1
4	☐	2500.000	2828.407	378296.86	0.9170	P	0.3
5	☐	5000.000	5373.456	687732.71	1.7421	P	0.9
6	☐	10000.000	10520.361	1347037.50	3.4106	P	0.3
7	☐	20000.000	20442.347	2745988.15	6.6271	P	0.8
8	☐	100000.00	99831.742	13620479.82	32.3637	A	2.5

$$y = 3.2418\text{E-}004 * x + 8.8783\text{E-}005$$

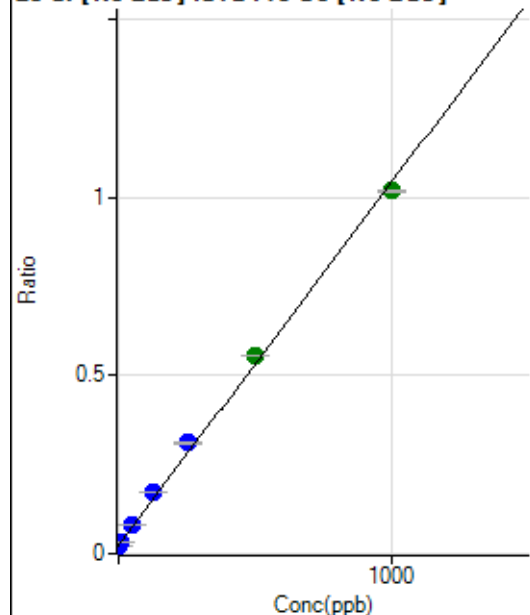
$$R = 1.0000$$

$$DL = 0.7304$$

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	285224.05	0.0234	P	1.7
2	☐	10.000	11.067	422738.18	0.0347	P	0.8
3	☐	50.000	57.726	979971.29	0.0823	P	0.3
4	☐	125.000	145.792	2019861.37	0.1720	P	0.9
5	☐	250.000	283.178	3584167.70	0.3121	P	1.1
6	☐	500.000	524.071	6267952.92	0.5576	A	0.3
7	☐	1000.000	976.674	11771167.19	1.0190	A	0.8
8	☐			1084048.06	0.0987	P	1.3

$$y = 0.0010 * x + 0.0234$$

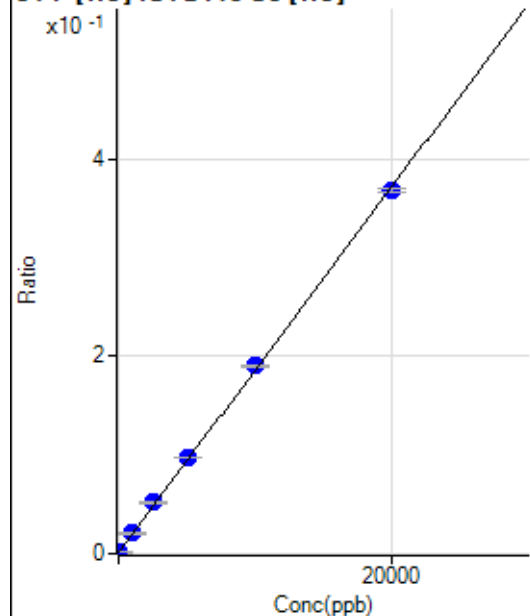
$$R = 0.9988$$

$$DL = 1.142$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-28.698	197.23	0.0004	P	27.2
2	☐	0.000	28.698	669.49	0.0015	P	14.9
3	☐	1000.000	1058.703	8700.09	0.0206	P	4.2
4	☐	2500.000	2768.069	21563.63	0.0523	P	2.7
5	☐	5000.000	5193.557	38381.17	0.0972	P	0.7
6	☐	10000.000	10227.503	75239.54	0.1905	P	0.6
7	☐	20000.000	19801.415	152450.28	0.3679	P	1.0
8	☐			247.24	0.0006	P	33.8

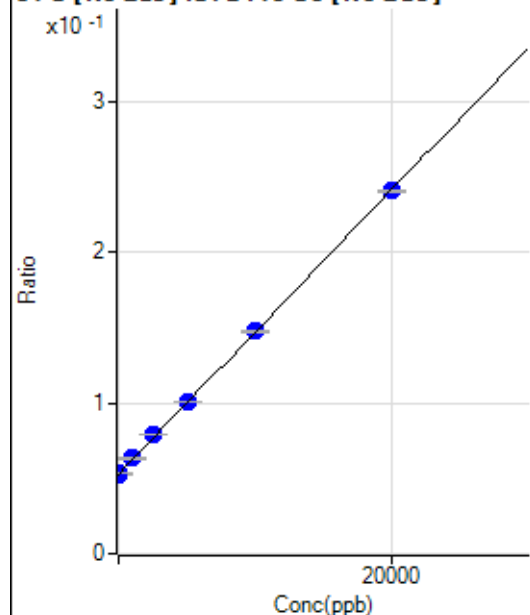
$$y = 1.8531E-005 * x + 9.8002E-004$$

$$R = 0.9998$$

$$DL = 28.07$$

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	-59.702	636093.75	0.0522	P	1.9
2	☐	0.000	59.702	649955.05	0.0533	P	0.4
3	☐	1000.000	1126.679	755358.09	0.0634	P	1.1
4	☐	2500.000	2777.847	927402.11	0.0790	P	1.1
5	☐	5000.000	5055.390	1153983.87	0.1005	P	0.4
6	☐	10000.000	10073.067	1661420.37	0.1478	P	1.0
7	☐	20000.000	19908.554	2779587.67	0.2406	P	0.7
8	☐			509758.65	0.0464	P	0.6

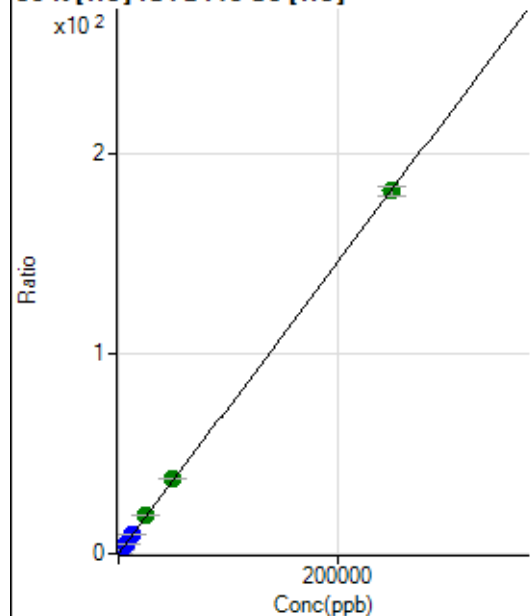
$$y = 9.4353\text{E-}006 * x + 0.0528$$

R = 0.9999

DL = 194.9

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	23664.20	0.0539	P	3.8
2	☐	500.000	555.698	202525.35	0.4580	P	1.4
3	☐	2500.000	2693.052	850024.91	2.0125	P	0.9
4	☐	6250.000	6992.367	2120098.74	5.1393	P	0.3
5	☐	12500.000	13285.203	3835589.19	9.7159	P	0.6
6	☐	25000.000	26071.167	7509939.06	19.0148	A	0.3
7	☐	50000.000	51214.031	15455653.12	37.3005	A	0.9
8	☐	250000.00	249590.21	76412293.37	181.5744	A	2.9

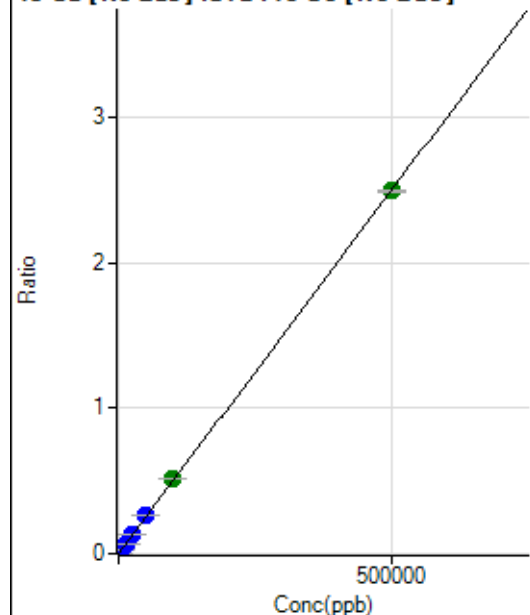
$$y = 7.2727\text{E-}004 * x + 0.0539$$

R = 1.0000

DL = 8.452

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	550.04	0.0000	P	8.9
2	☐	500.000	531.783	32959.85	0.0027	P	2.0
3	☐	5000.000	5302.779	316516.41	0.0266	P	0.5
4	☐	12500.000	13808.855	811458.31	0.0691	P	0.7
5	☐	25000.000	26267.021	1509281.45	0.1314	P	1.4
6	☐	50000.000	52132.452	2931129.62	0.2608	P	0.8
7	☐	100000.00	102570.04	5926632.38	0.5130	A	0.5
8	☐	500000.00	499173.61	27431119.02	2.4965	A	0.7

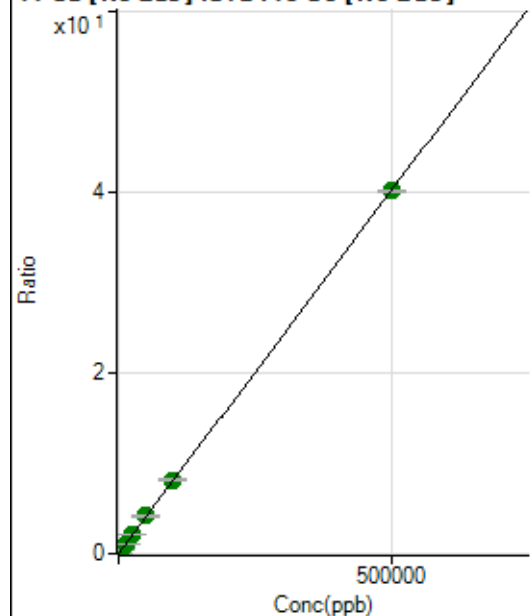
$$y = 5.0013\text{E-}006 * x + 4.5168\text{E-}005$$

$$R = 1.0000$$

$$DL = 2.398$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8716.87	0.0007	P	1.9
2	☐	500.000	532.542	529835.14	0.0435	P	1.0
3	☐	5000.000	5146.445	4932271.42	0.4140	A	0.1
4	☐	12500.000	13511.838	12748666.43	1.0857	A	0.6
5	☐	25000.000	26157.776	24133202.97	2.1012	A	0.9
6	☐	50000.000	51727.923	46693538.54	4.1546	A	2.2
7	☐	100000.00	101792.89	94436660.44	8.1749	A	0.5
8	☐	500000.00	499383.94	440627259.8	40.1022	A	0.8

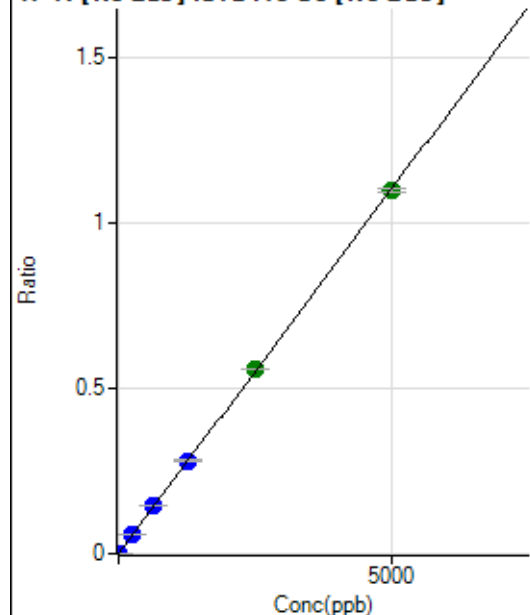
$$y = 8.0302\text{E-}005 * x + 7.1536\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.5038$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	194.45	0.0000	P	24.5
2	☐	5.000	5.436	14821.94	0.0012	P	3.0
3	☐	250.000	256.722	675639.06	0.0567	P	0.2
4	☐	625.000	667.617	1731386.32	0.1474	P	0.4
5	☐	1250.000	1277.236	3239646.69	0.2821	P	1.1
6	☐	2500.000	2525.840	6270123.23	0.5578	A	0.5
7	☐	5000.000	4974.608	12690631.45	1.0986	A	1.0
8	☐			4223.01	0.0004	P	5.3

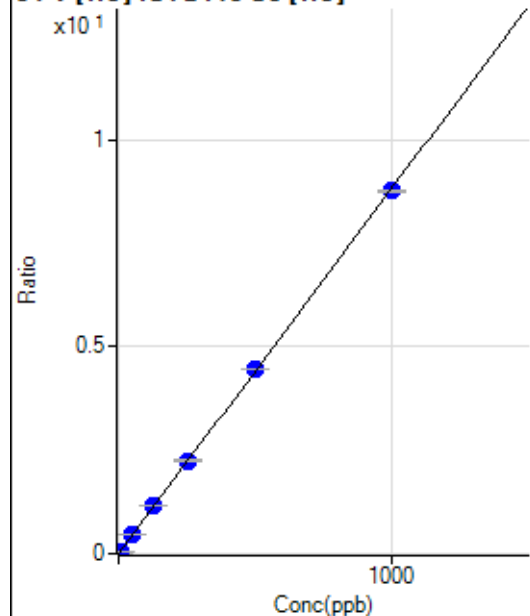
$$y = 2.2084E-004 * x + 1.5960E-005$$

$$R = 0.9999$$

$$DL = 0.05321$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7.78	0.0000	P	66.6
2	☐	5.000	5.432	21169.82	0.0479	P	0.9
3	☐	50.000	51.182	190451.82	0.4509	P	0.3
4	☐	125.000	134.022	487079.34	1.1807	P	0.5
5	☐	250.000	255.002	886859.36	2.2465	P	0.8
6	☐	500.000	506.830	1763470.74	4.4651	P	0.3
7	☐	1000.000	994.145	3629055.67	8.7582	P	0.5
8	☐			1351.20	0.0032	P	3.2

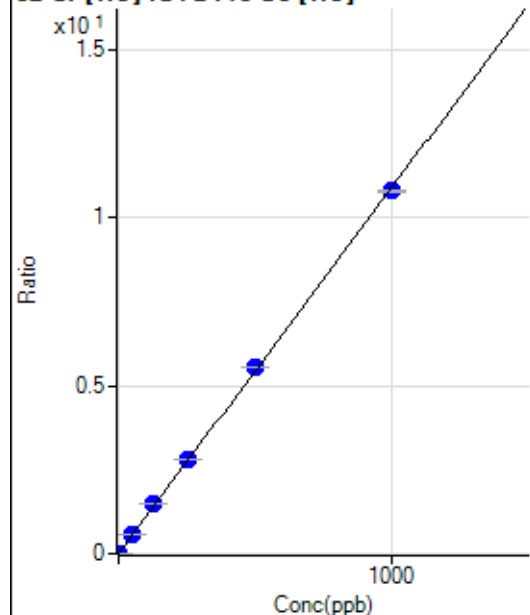
$$y = 0.0088 * x + 1.7795E-005$$

$$R = 0.9999$$

$$DL = 0.004033$$

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	1453.43	0.0033	P	2.4
2	☐	2.000	2.154	11814.90	0.0267	P	0.6
3	☐	50.000	52.446	242081.32	0.5731	P	0.5
4	☐	125.000	136.124	611506.04	1.4823	P	0.5
5	☐	250.000	258.660	1110804.02	2.8137	P	0.5
6	☐	500.000	508.702	2184277.24	5.5305	P	0.4
7	☐	1000.000	991.971	4467379.48	10.7814	P	0.7
8	☐			114093.51	0.2711	P	2.1

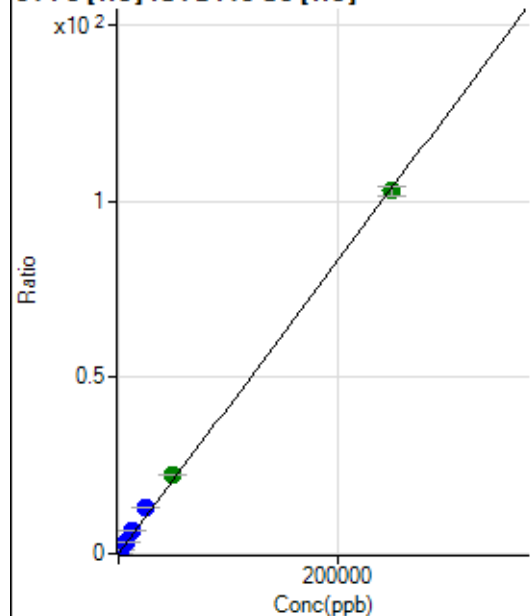
$$y = 0.0109 * x + 0.0033$$

$$R = 0.9999$$

$$DL = 0.02216$$

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	610.66	0.0014	P	14.8
2	☐	50.000	69.582	13380.00	0.0303	P	1.4
3	☐	2500.000	3217.042	564197.34	1.3358	P	0.5
4	☐	6250.000	8367.737	1432429.94	3.4724	P	0.8
5	☐	12500.000	15893.303	2603171.62	6.5940	P	0.4
6	☐	25000.000	31130.865	5100665.23	12.9146	P	0.6
7	☐	50000.000	54216.609	9319114.52	22.4906	A	1.0
8	☐	250000.00	248313.80	43349399.12	103.0028	A	2.5

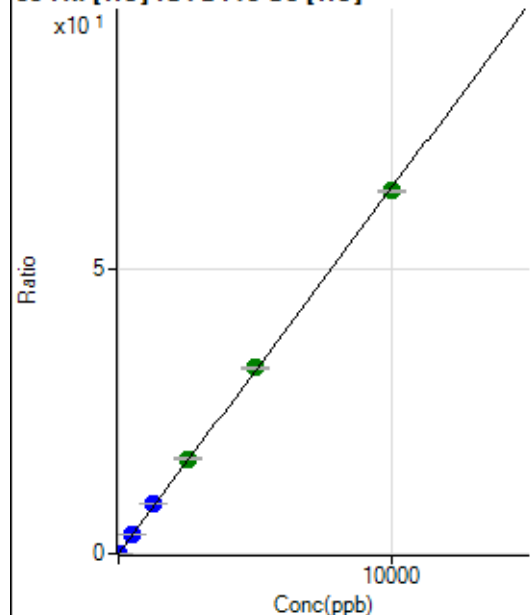
$$y = 4.1480E-004 * x + 0.0014$$

$$R = 0.9996$$

$$DL = 1.492$$

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	84.45	0.0002	P	16.2
2	☐	1.000	1.118	3257.08	0.0074	P	3.4
3	☐	500.000	526.184	1425585.83	3.3753	P	0.4
4	☐	1250.000	1366.423	3615781.82	8.7649	P	0.4
5	☐	2500.000	2589.773	6557717.61	16.6120	A	1.3
6	☐	5000.000	5082.264	12875595.36	32.5997	A	0.7
7	☐	10000.000	9920.563	26367352.39	63.6344	A	0.8
8	☐			24836.64	0.0590	P	2.4

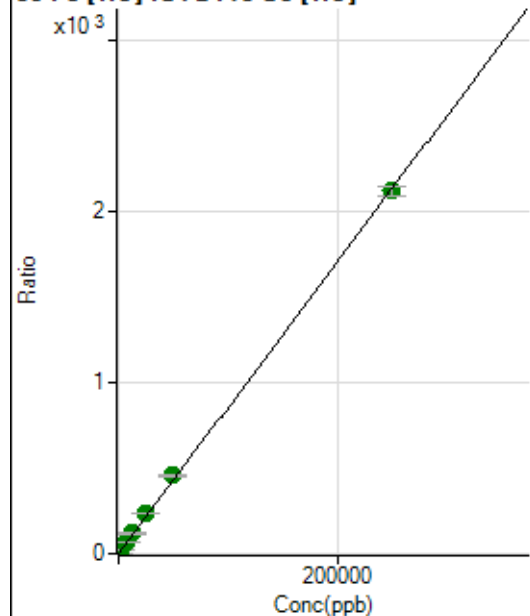
$$y = 0.0064 * x + 1.9237E-004$$

$$R = 0.9999$$

$$DL = 0.01453$$

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	5986.55	0.0136	P	3.5
2	☐	50.000	60.586	233996.61	0.5292	P	1.7
3	☐	2500.000	2788.553	10028436.91	23.7448	A	1.7
4	☐	6250.000	7346.136	25795317.47	62.5309	A	0.8
5	☐	12500.000	13893.243	46680256.14	118.2482	A	1.4
6	☐	25000.000	27506.915	92461524.29	234.1036	A	0.6
7	☐	50000.000	53447.625	188474861.6	454.8648	A	1.0
8	☐	250000.00	248959.83	891638708.8	2,118.717	A	2.7

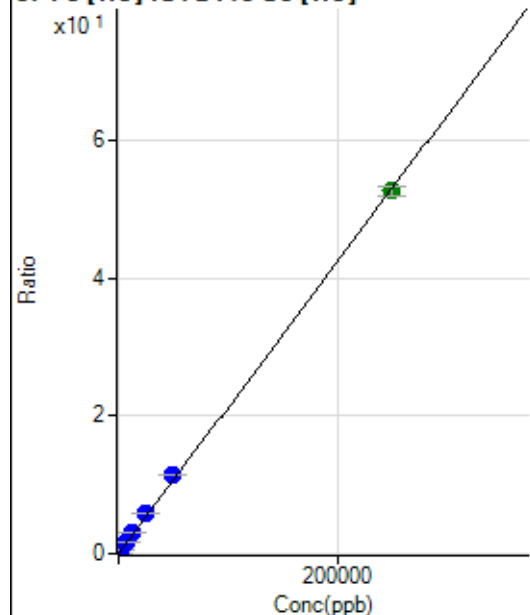
$$y = 0.0085 * x + 0.0136$$

$$R = 0.9999$$

$$DL = 0.1679$$

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	235.19	0.0005	P	27.3
2	☐	50.000	63.390	6162.56	0.0139	P	4.3
3	☐	2500.000	2832.635	253240.03	0.5996	P	0.4
4	☐	6250.000	7403.375	646111.61	1.5662	P	0.4
5	☐	12500.000	14123.376	1179332.23	2.9874	P	0.7
6	☐	25000.000	27700.645	2313991.26	5.8587	P	0.6
7	☐	50000.000	53679.677	4704146.40	11.3528	P	0.7
8	☐	250000.00	248880.66	22150613.00	52.6344	A	2.7

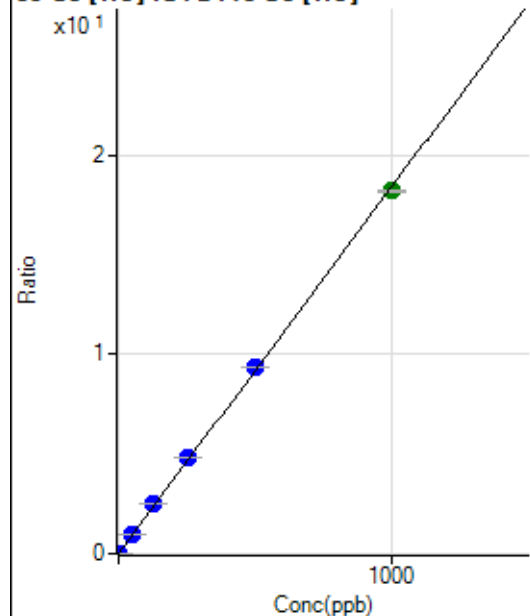
$$y = 2.1148\text{E-}004 * x + 5.3500\text{E-}004$$

$$R = 0.9999$$

$$DL = 2.072$$

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	78.89	0.0002	P	19.1
2	☐	1.000	1.063	8720.50	0.0197	P	1.3
3	☐	50.000	53.259	413730.99	0.9796	P	0.4
4	☐	125.000	138.050	1047340.85	2.5388	P	0.4
5	☐	250.000	262.009	1902161.48	4.8184	P	0.7
6	☐	500.000	510.711	3709343.94	9.3918	P	0.1
7	☐	1000.000	989.848	7542635.24	18.2029	A	0.3
8	☐			14278.23	0.0339	P	3.5

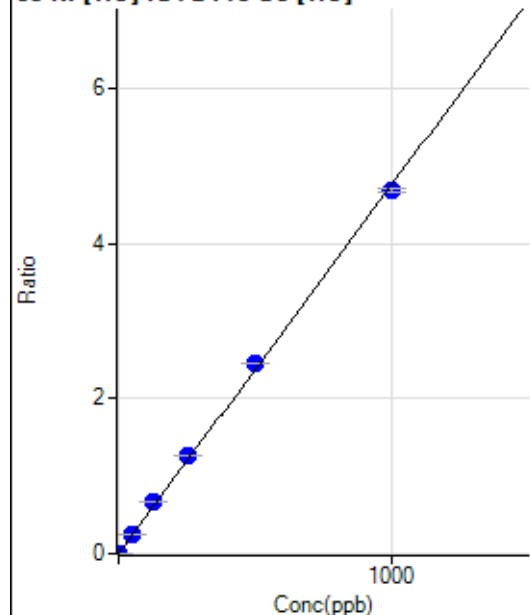
$$y = 0.0184 * x + 1.7970\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.005611$$

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	115.56	0.0003	P	23.2
2	☐	1.000	1.230	2703.63	0.0061	P	5.6
3	☐	50.000	54.516	109678.66	0.2597	P	0.2
4	☐	125.000	141.449	277779.99	0.6733	P	0.2
5	☐	250.000	267.334	502310.53	1.2724	P	0.2
6	☐	500.000	518.224	974056.00	2.4662	P	0.3
7	☐	1000.000	984.272	1940815.82	4.6839	P	0.9
8	☐			32314.58	0.0768	P	2.6

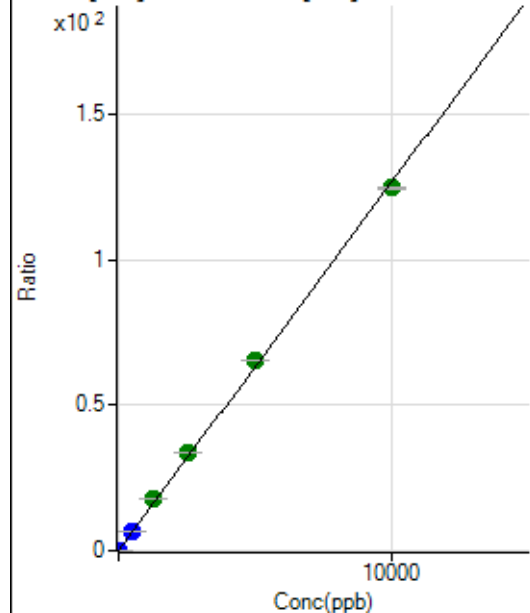
$$y = 0.0048 * x + 2.6359E-004$$

$$R = 0.9995$$

$$DL = 0.03854$$

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	853.37	0.0019	P	4.1
2	☐	2.000	2.229	13346.25	0.0302	P	1.3
3	☐	500.000	547.416	2930831.86	6.9392	P	0.2
4	☐	1250.000	1406.434	7353538.64	17.8253	A	0.5
5	☐	2500.000	2660.427	13310087.02	33.7168	A	1.3
6	☐	5000.000	5171.470	25885058.78	65.5385	A	0.5
7	☐	10000.000	9852.233	51735333.12	124.8565	A	0.7
8	☐			16318.18	0.0388	P	2.8

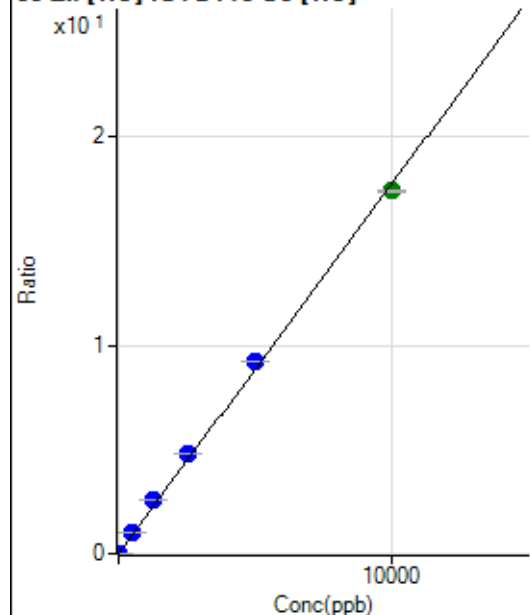
$$y = 0.0127 * x + 0.0019$$

$$R = 0.9996$$

$$DL = 0.01877$$

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	916.71	0.0021	P	9.4
2	☐	2.000	2.208	2651.40	0.0060	P	2.4
3	☐	500.000	555.619	416252.08	0.9855	P	0.2
4	☐	1250.000	1435.611	1049118.89	2.5431	P	0.4
5	☐	2500.000	2712.722	1896369.22	4.8036	P	0.5
6	☐	5000.000	5190.810	3629615.12	9.1899	P	0.3
7	☐	10000.000	9825.432	7207132.39	17.3933	A	0.2
8	☐			22659.98	0.0538	P	1.5

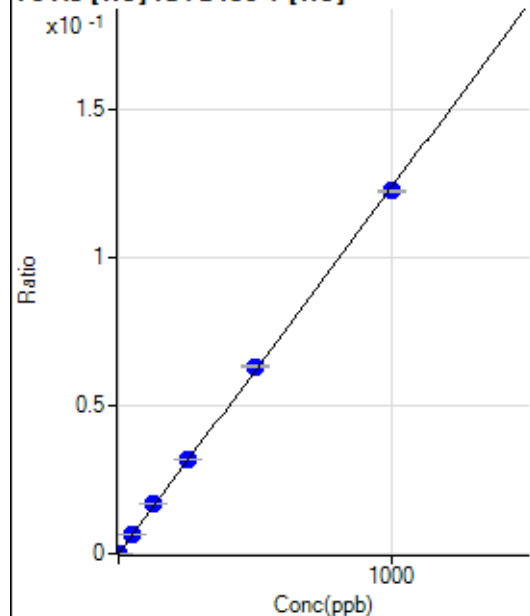
$$y = 0.0018 * x + 0.0021$$

$$R = 0.9994$$

$$DL = 0.332$$

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	2.47	0.0000	P	86.6
2	☐	1.000	1.041	505.57	0.0001	P	9.6
3	☐	50.000	53.368	24940.53	0.0066	P	1.9
4	☐	125.000	136.804	62945.26	0.0169	P	0.6
5	☐	250.000	258.053	115286.65	0.0319	P	0.6
6	☐	500.000	511.425	225884.99	0.0633	P	0.4
7	☐	1000.000	990.630	452632.29	0.1226	P	0.5
8	☐			222.23	0.0001	P	16.5

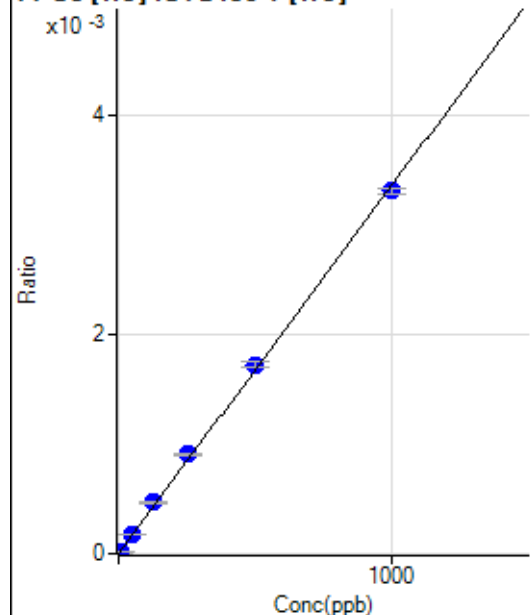
$$y = 1.2376E-004 * x + 6.3445E-007$$

$$R = 0.9998$$

$$DL = 0.01332$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	5.411	72.22	0.0000	P	15.3
3	☐	50.000	52.703	670.03	0.0002	P	4.2
4	☐	125.000	139.243	1741.25	0.0005	P	2.7
5	☐	250.000	269.870	3275.98	0.0009	P	1.9
6	☐	500.000	513.755	6165.86	0.0017	P	2.7
7	☐	1000.000	986.238	12242.00	0.0033	P	1.7
8	☐			2.22	0.0000	P	86.6

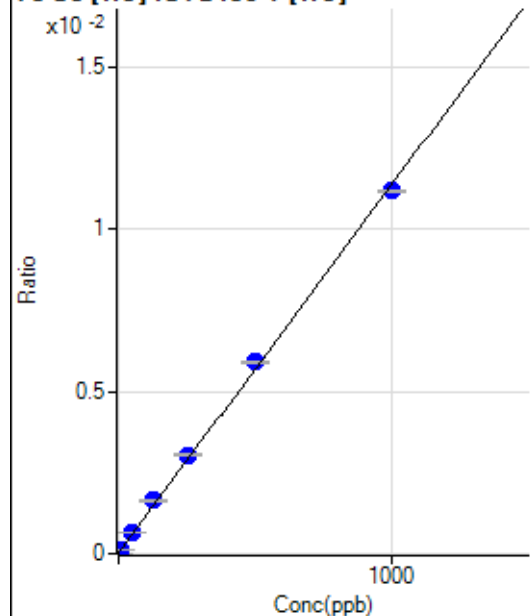
$$y = 3.3620\text{E-}006 * x + 2.9161\text{E-}007$$

$$R = 0.9996$$

$$DL = 0.4507$$

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	87.04	0.0000	P	14.5
2	☐	5.000	5.998	353.71	0.0001	P	2.0
3	☐	50.000	53.813	2390.96	0.0006	P	0.6
4	☐	125.000	142.068	6076.63	0.0016	P	2.5
5	☐	250.000	265.975	10977.05	0.0030	P	1.2
6	☐	500.000	519.606	21123.48	0.0059	P	1.0
7	☐	1000.000	983.874	41301.82	0.0112	P	0.5
8	☐			100.00	0.0000	P	13.6

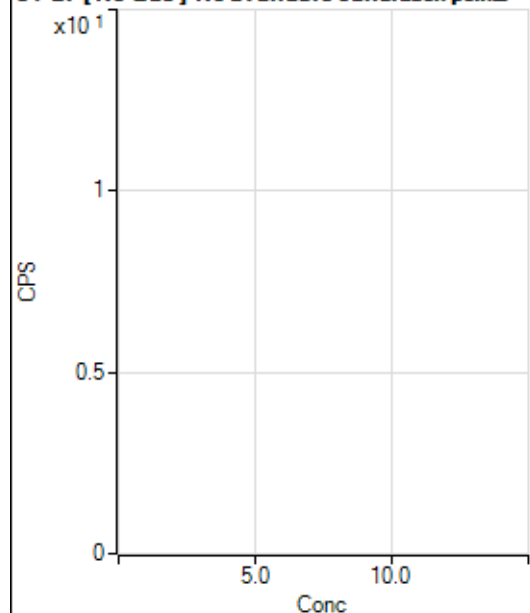
$$y = 1.1348\text{E-}005 * x + 2.2539\text{E-}005$$

$$R = 0.9995$$

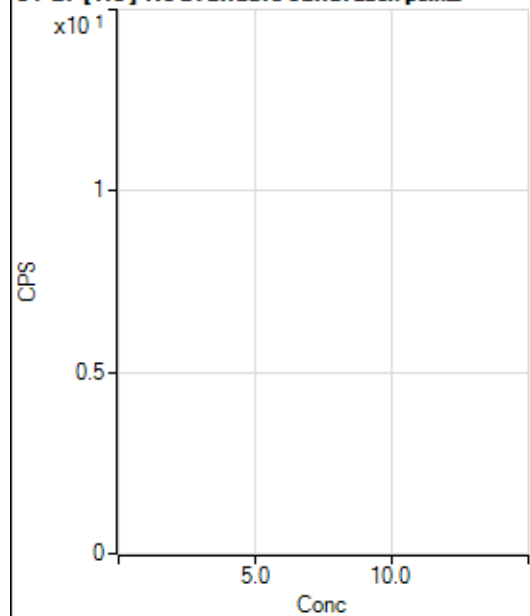
$$DL = 0.8667$$

Weight: <None>

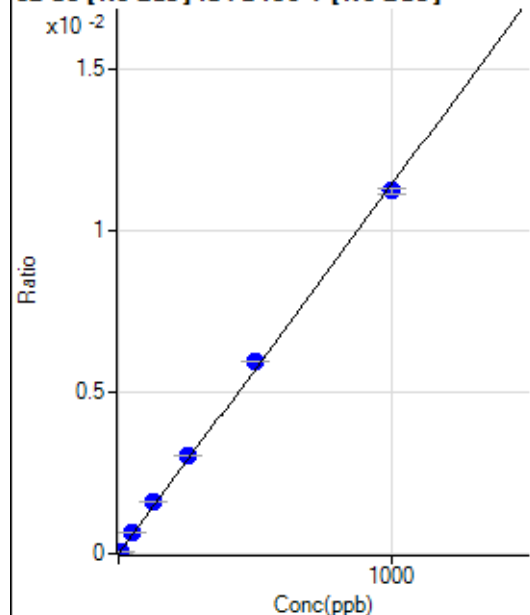
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			74215.84		P	1.5
2	☐			73521.67		P	1.4
3	☐			74574.25		P	2.1
4	☐			71492.92		P	1.4
5	☐			67855.91		P	1.1
6	☐			67608.18		P	2.5
7	☐			70500.51		P	1.9
8	☐			71157.23		P	3.1

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			56.72		P	10.2
2	☐			66.74		P	48.2
3	☐			50.05		P	80.0
4	☐			50.05		P	20.0
5	☐			36.70		P	41.7
6	☐			23.36		P	49.5
7	☐			26.69		P	78.1
8	☐			36.70		P	31.5

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	59.25	0.0000	P	91.6
2	☐	5.000	5.756	2184.39	0.0001	P	4.1
3	☐	50.000	54.843	19728.90	0.0006	P	0.7
4	☐	125.000	139.517	50436.78	0.0016	P	0.1
5	☐	250.000	265.077	94435.60	0.0030	P	0.6
6	☐	500.000	521.098	180763.43	0.0059	P	0.7
7	☐	1000.000	983.621	353230.46	0.0112	P	1.4
8	☐			406.48	0.0000	P	9.7

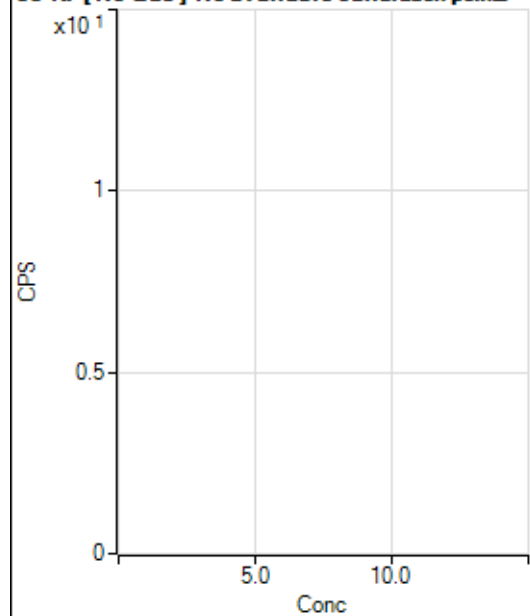
$$y = 1.1402\text{E-}005 * x + 1.8514\text{E-}006$$

$$R = 0.9995$$

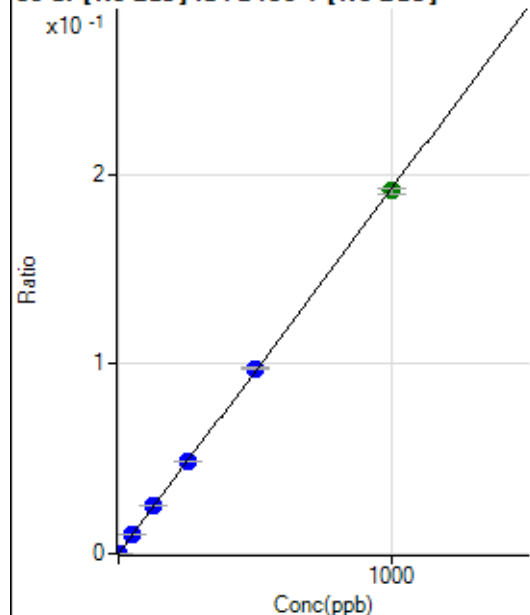
$$DL = 0.4462$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			433.35		P	10.9
2	☐			450.02		P	6.3
3	☐			441.13		P	4.6
4	☐			427.79		P	4.4
5	☐			420.01		P	15.8
6	☐			454.46		P	2.2
7	☐			491.13		P	9.2
8	☐			565.58		P	5.3

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	697.27	0.0000	P	13.3
2	☐	1.000	1.026	7090.95	0.0002	P	3.4
3	☐	50.000	51.626	312662.98	0.0099	P	0.7
4	☐	125.000	132.957	809562.92	0.0256	P	0.6
5	☐	250.000	254.536	1527565.52	0.0489	P	0.8
6	☐	500.000	506.309	2958915.30	0.0973	P	1.0
7	☐	1000.000	994.636	6017714.28	0.1911	A	1.7
8	☐			13034.31	0.0004	P	0.6

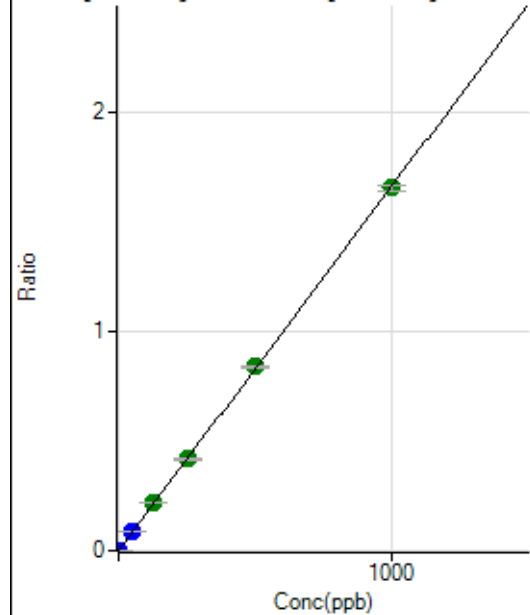
$$y = 1.9211\text{E-}004 * x + 2.1817\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.04532$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	247.24	0.0000	P	13.7
2	☐	1.000	1.053	56992.12	0.0018	P	1.5
3	☐	50.000	51.645	2704430.42	0.0860	P	0.6
4	☐	125.000	131.940	6954968.21	0.2196	A	1.1
5	☐	250.000	251.068	13050204.11	0.4179	A	0.7
6	☐	500.000	504.788	25554461.34	0.8403	A	1.5
7	☐	1000.000	996.390	52229270.26	1.6586	A	1.3
8	☐			107090.09	0.0036	P	0.5

$$y = 0.0017 * x + 7.7355\text{E-}006$$

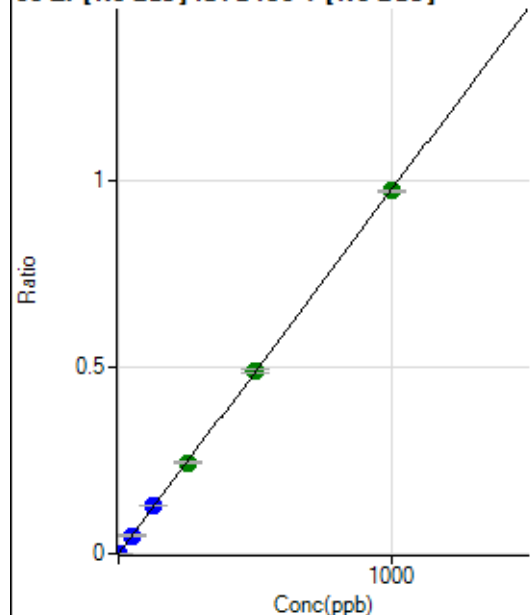
$$R = 1.0000$$

$$DL = 0.001914$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1252.89	0.0000	P	9.9
2	☐	1.000	0.706	23522.91	0.0007	P	5.0
3	☐	50.000	50.053	1533861.22	0.0488	P	0.7
4	☐	125.000	132.204	4076376.22	0.1287	P	1.0
5	☐	250.000	250.945	7628618.66	0.2443	A	0.9
6	☐	500.000	503.535	14907652.59	0.4902	A	1.7
7	☐	1000.000	997.093	30566296.52	0.9706	A	0.5
8	☐			9873.26	0.0003	P	5.5

$$y = 9.7341\text{E-}004 * x + 3.9189\text{E-}005$$

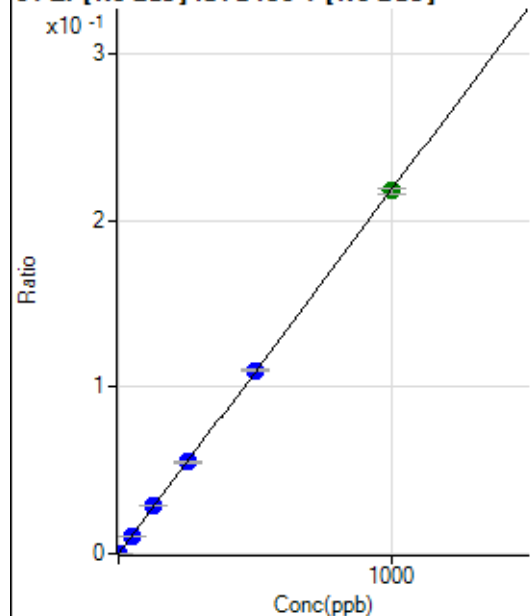
$$R = 1.0000$$

$$DL = 0.01194$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	275.01	0.0000	P	18.9
2	☐	1.000	0.715	5337.33	0.0002	P	0.9
3	☐	50.000	49.967	343522.79	0.0109	P	0.5
4	☐	125.000	131.207	907594.15	0.0287	P	1.7
5	☐	250.000	251.299	1713933.39	0.0549	P	0.6
6	☐	500.000	503.111	3341885.93	0.1099	P	0.8
7	☐	1000.000	997.345	6858781.05	0.2178	A	1.8
8	☐			2083.58	0.0001	P	3.4

$$y = 2.1838\text{E-}004 * x + 8.6076\text{E-}006$$

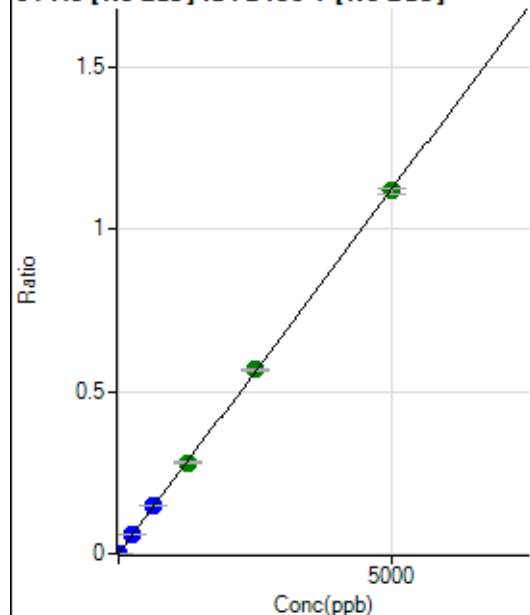
$$R = 1.0000$$

$$DL = 0.02229$$

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	386.14	0.0000	P	14.3
2	☐	5.000	4.788	35199.81	0.0011	P	1.2
3	☐	250.000	254.416	1797525.41	0.0571	P	1.0
4	☐	625.000	663.837	4721250.37	0.1491	P	0.9
5	☐	1250.000	1251.428	8775679.88	0.2810	A	1.2
6	☐	2500.000	2525.176	17247605.94	0.5671	A	0.6
7	☐	5000.000	4981.979	35231133.43	1.1188	A	1.7
8	☐			25971.75	0.0009	P	2.8

$$y = 2.2457E-004 * x + 1.2079E-005$$

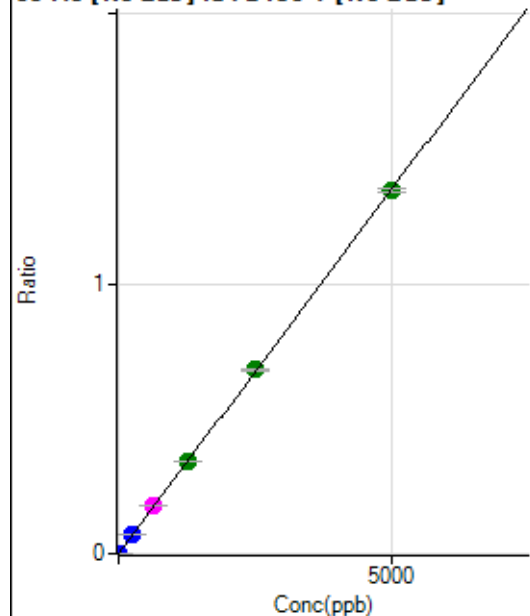
$$R = 1.0000$$

$$DL = 0.02308$$

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	66.67	0.0000	P	25.1
2	☐	5.000	5.333	46649.25	0.0014	P	2.1
3	☐	250.000	255.326	2166891.73	0.0689	P	1.3
4	☐	625.000	659.488	5634556.81	0.1779	M	1.3
5	☐	1250.000	1260.664	10621095.90	0.3401	A	0.5
6	☐	2500.000	2521.762	20693214.00	0.6804	A	0.9
7	☐	5000.000	4981.875	42329048.17	1.3442	A	1.0
8	☐			37873.45	0.0013	P	1.8

$$y = 2.6981E-004 * x + 2.0864E-006$$

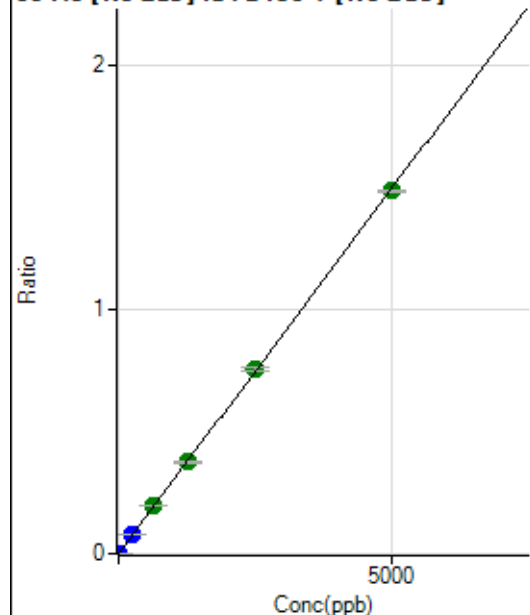
$$R = 1.0000$$

$$DL = 0.005829$$

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	294.46	0.0000	P	3.9
2	☐	5.000	5.296	51558.26	0.0016	P	2.3
3	☐	250.000	256.354	2410304.31	0.0766	P	1.2
4	☐	625.000	659.059	6238182.35	0.1970	A	0.8
5	☐	1250.000	1258.999	11750058.16	0.3763	A	1.2
6	☐	2500.000	2541.485	23100835.59	0.7596	A	2.0
7	☐	5000.000	4972.432	46801625.01	1.4862	A	0.9
8	☐			70408.07	0.0024	P	1.1

$$y = 2.9888\text{E-}004 * x + 9.2108\text{E-}006$$

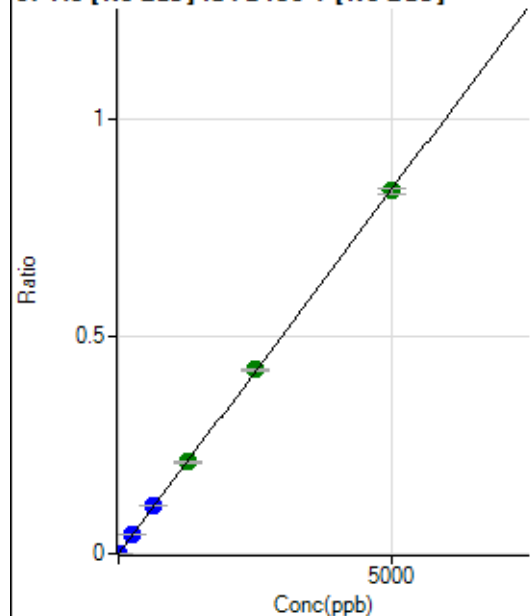
$$R = 0.9999$$

$$DL = 0.003605$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.67	0.0000	P	39.9
2	☐	5.000	5.321	28963.75	0.0009	P	0.7
3	☐	250.000	257.268	1358496.27	0.0432	P	1.1
4	☐	625.000	665.216	3536073.65	0.1117	P	1.3
5	☐	1250.000	1255.790	6582373.71	0.2108	A	1.0
6	☐	2500.000	2522.416	12878756.62	0.4234	A	0.2
7	☐	5000.000	4981.954	26335075.59	0.8363	A	1.4
8	☐			23659.32	0.0008	P	2.2

$$y = 1.6787\text{E-}004 * x + 1.3027\text{E-}006$$

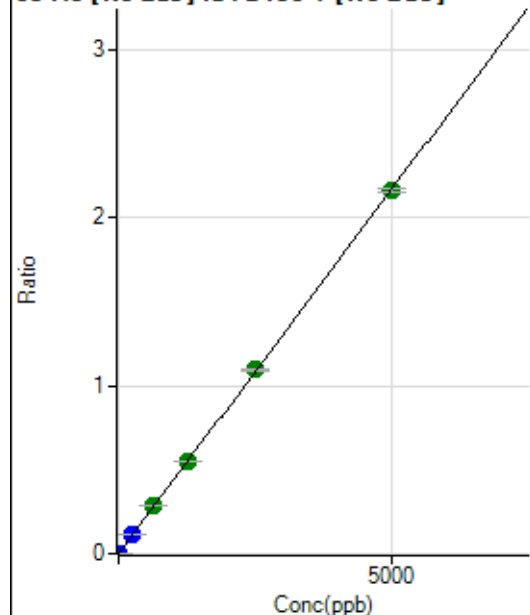
$$R = 1.0000$$

$$DL = 0.00928$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	91.67	0.0000	P	41.3
2	☐	5.000	5.405	75863.60	0.0023	P	0.4
3	☐	250.000	256.730	3496130.42	0.1111	P	1.0
4	☐	625.000	654.115	8966926.68	0.2832	A	1.9
5	☐	1250.000	1258.993	17019387.88	0.5450	A	0.7
6	☐	2500.000	2524.550	33238729.56	1.0929	A	1.5
7	☐	5000.000	4981.500	67912345.27	2.1566	A	1.2
8	☐			58144.53	0.0020	P	3.4

$$y = 4.3292\text{E-}004 * x + 2.8659\text{E-}006$$

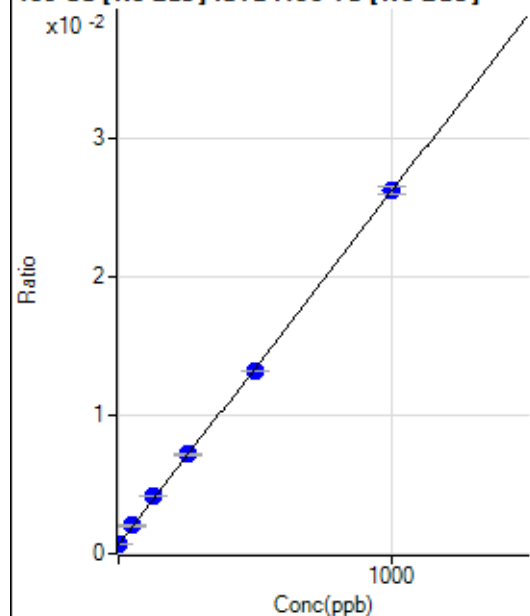
$$R = 1.0000$$

$$DL = 0.008207$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14402.33	0.0006	P	3.0
2	☐	1.000	1.548	15180.96	0.0007	P	2.0
3	☐	50.000	53.631	43997.42	0.0020	P	0.6
4	☐	125.000	136.638	90846.18	0.0041	P	0.6
5	☐	250.000	254.978	158435.50	0.0071	P	0.2
6	☐	500.000	491.506	289367.59	0.0132	P	0.4
7	☐	1000.000	1001.366	577427.26	0.0262	P	2.1
8	☐			13621.06	0.0007	P	5.2

$$y = 2.5479\text{E-}005 * x + 6.4493\text{E-}004$$

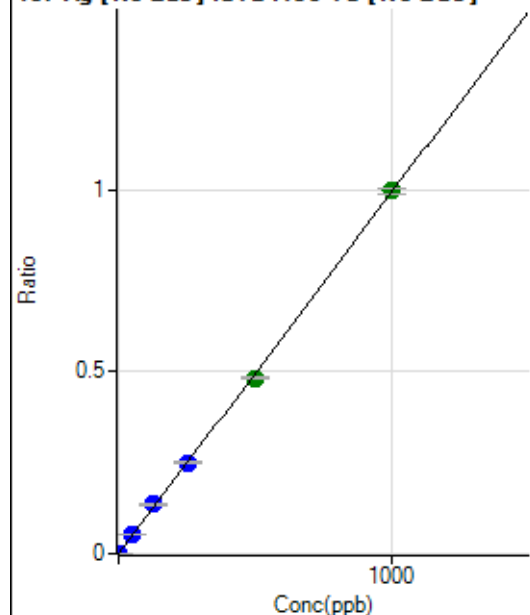
$$R = 0.9999$$

$$DL = 2.294$$

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	263.90	0.0000	P	7.1
2	☐	1.000	1.026	22827.61	0.0010	P	1.8
3	☐	50.000	53.849	1168175.75	0.0534	P	1.1
4	☐	125.000	136.221	2973946.92	0.1351	P	1.0
5	☐	250.000	251.620	5535373.13	0.2495	P	1.4
6	☐	500.000	486.190	10594616.12	0.4821	A	0.5
7	☐	1000.000	1004.905	21995819.59	0.9964	A	1.9
8	☐			5593.03	0.0003	P	2.8

$$y = 9.9157E-004 * x + 1.1822E-005$$

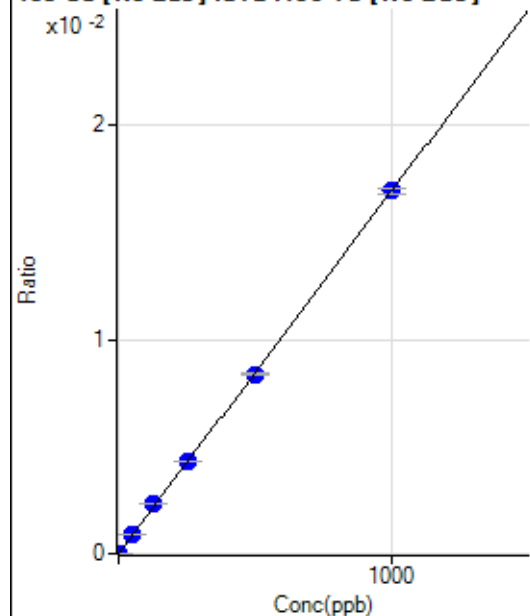
$$R = 0.9998$$

$$DL = 0.002549$$

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	36.11	0.0000	P	6.1
2	☐	1.000	0.981	404.18	0.0000	P	15.5
3	☐	50.000	52.616	19527.60	0.0009	P	2.8
4	☐	125.000	135.946	50733.84	0.0023	P	1.0
5	☐	250.000	254.198	95562.68	0.0043	P	1.4
6	☐	500.000	493.537	183752.09	0.0084	P	1.2
7	☐	1000.000	1000.683	374226.05	0.0170	P	1.4
8	☐			166.67	0.0000	P	6.6

$$y = 1.6939E-005 * x + 1.6167E-006$$

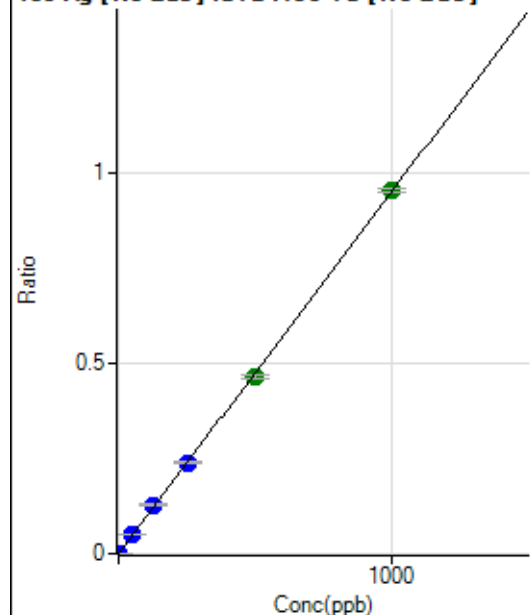
$$R = 0.9999$$

$$DL = 0.01741$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	69.45	0.0000	P	26.9
2	☐	1.000	1.037	21903.78	0.0010	P	1.9
3	☐	50.000	53.759	1116586.10	0.0510	P	0.9
4	☐	125.000	135.298	2828271.11	0.1285	P	0.8
5	☐	250.000	251.401	5295796.00	0.2387	P	1.1
6	☐	500.000	489.658	10217344.93	0.4649	A	1.4
7	☐	1000.000	1003.346	21031020.44	0.9527	A	1.2
8	☐			5148.37	0.0003	P	4.1

$$y = 9.4949\text{E-}004 * x + 3.1061\text{E-}006$$

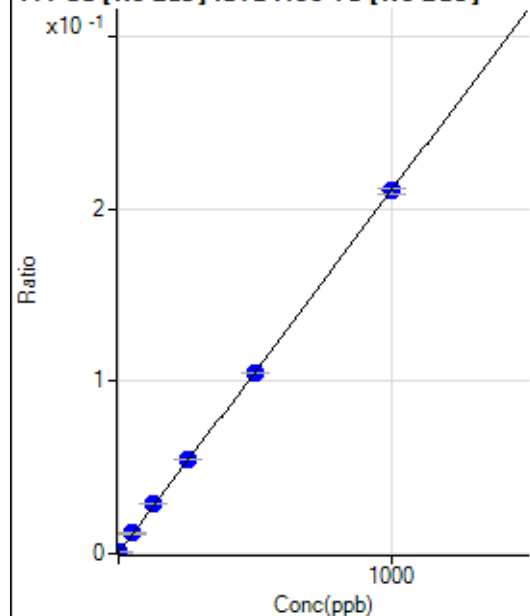
$$R = 0.9999$$

$$DL = 0.002638$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10074.41	0.0005	P	2.9
2	☐	1.000	1.145	15351.68	0.0007	P	1.6
3	☐	50.000	53.787	257549.34	0.0118	P	1.1
4	☐	125.000	136.924	644530.07	0.0293	P	1.1
5	☐	250.000	256.609	1208501.22	0.0545	P	0.6
6	☐	500.000	496.002	2304624.48	0.1049	P	0.3
7	☐	1000.000	998.667	4650954.23	0.2107	P	1.8
8	☐			10501.47	0.0005	P	4.6

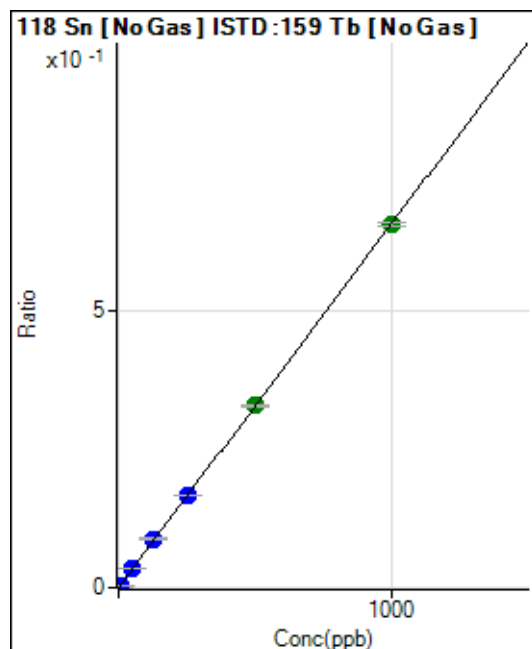
$$y = 2.1052\text{E-}004 * x + 4.5113\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.1892$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1436.24	0.0001	P	6.4
2	☐	5.000	5.228	77544.56	0.0035	P	1.0
3	☐	50.000	51.828	745354.08	0.0341	P	1.7
4	☐	125.000	134.380	1942877.58	0.0883	P	1.1
5	☐	250.000	254.519	3707099.39	0.1671	P	0.4
6	☐	500.000	500.745	7223010.14	0.3287	A	0.7
7	☐	1000.000	997.233	14448760.74	0.6545	A	1.1
8	☐			13440.27	0.0007	P	2.0

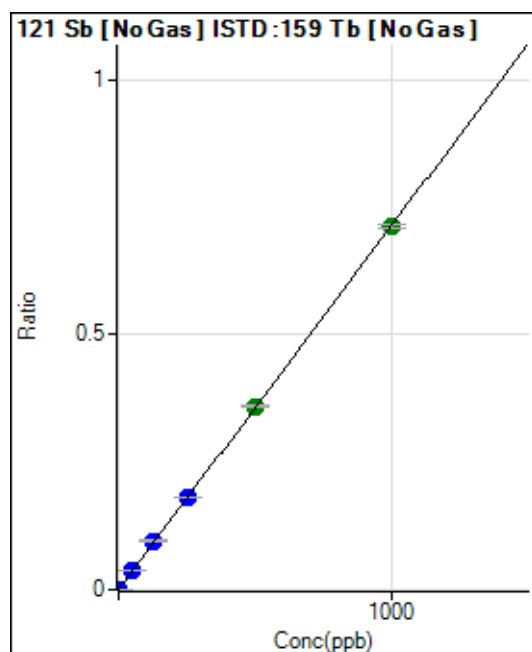
$$y = 6.5627\text{E-}004 * x + 6.4330\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.01872$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	20.8
2	☐	2.000	2.067	32775.24	0.0015	P	1.2
3	☐	50.000	51.329	801097.84	0.0366	P	1.1
4	☐	125.000	134.432	2111599.98	0.0959	P	1.0
5	☐	250.000	254.400	4026844.36	0.1815	P	0.3
6	☐	500.000	502.118	7872460.94	0.3582	A	1.1
7	☐	1000.000	996.595	15696507.29	0.7110	A	1.1
8	☐			20504.69	0.0010	P	7.1

$$y = 7.1346\text{E-}004 * x + 2.9828\text{E-}006$$

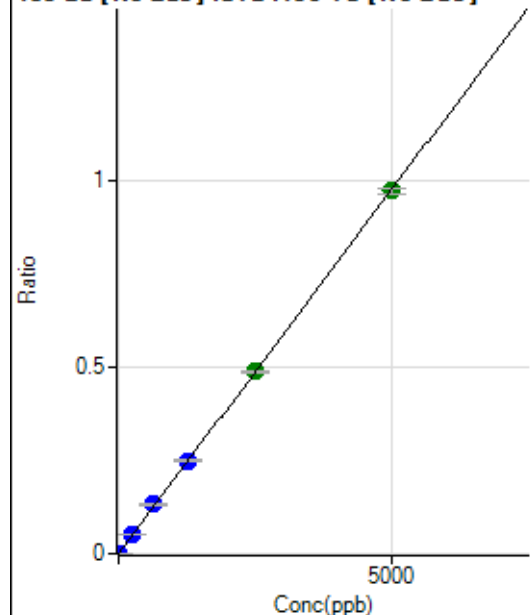
$$R = 0.9999$$

$$DL = 0.002613$$

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	25.00	0.0000	P	56.9
2	☐	10.000	10.785	46610.08	0.0021	P	1.1
3	☐	250.000	262.017	1115991.40	0.0510	P	0.7
4	☐	625.000	675.834	2896963.61	0.1316	P	1.3
5	☐	1250.000	1279.442	5526907.37	0.2491	P	0.3
6	☐	2500.000	2501.320	10702800.76	0.4870	A	0.5
7	☐	5000.000	4985.023	21426512.11	0.9706	A	1.6
8	☐			38367.92	0.0019	P	3.1

$$y = 1.9471E-004 * x + 1.1166E-006$$

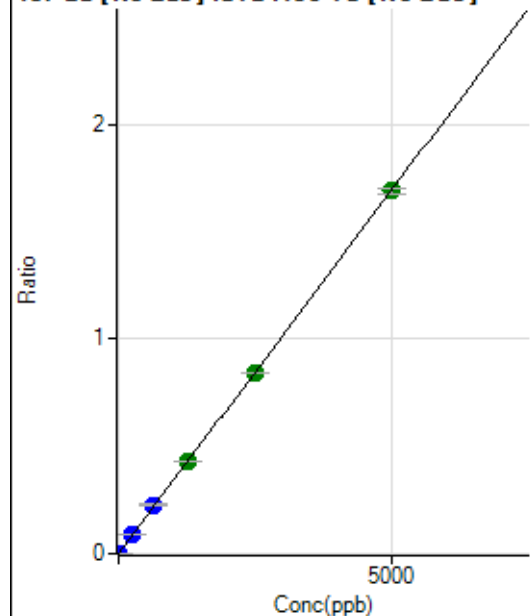
$$R = 0.9999$$

$$DL = 0.009789$$

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	55.56	0.0000	P	69.4
2	☐	10.000	10.788	81112.21	0.0037	P	0.7
3	☐	250.000	259.810	1924821.79	0.0880	P	0.8
4	☐	625.000	671.922	5009957.10	0.2276	P	1.1
5	☐	1250.000	1265.835	9511275.91	0.4287	A	0.3
6	☐	2500.000	2495.266	18571662.57	0.8451	A	0.2
7	☐	5000.000	4992.051	37322411.60	1.6907	A	1.4
8	☐			65753.65	0.0033	P	2.8

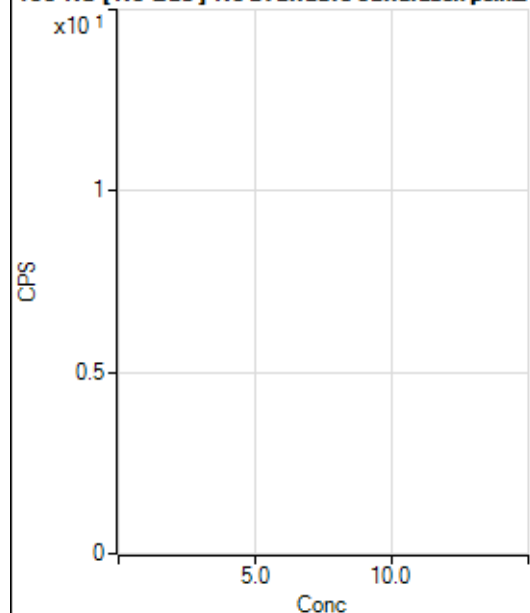
$$y = 3.3868E-004 * x + 2.4894E-006$$

$$R = 1.0000$$

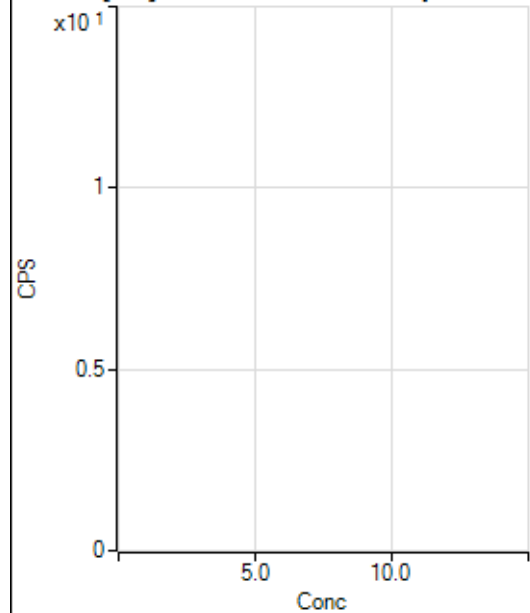
$$DL = 0.01531$$

Weight: <None>

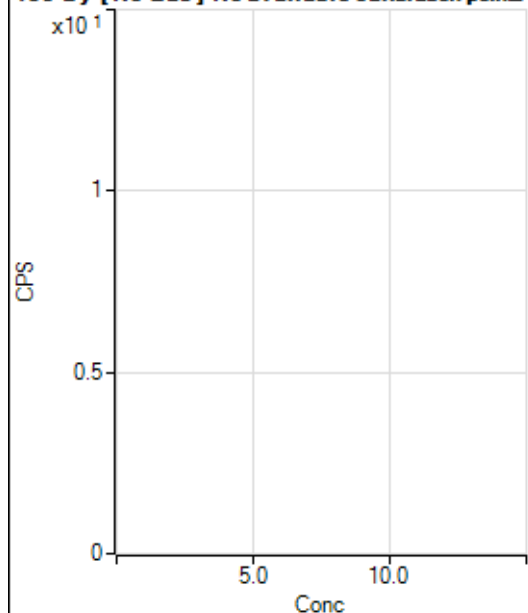
Min Conc: 0

150 Nd [No Gas] No available calibration points

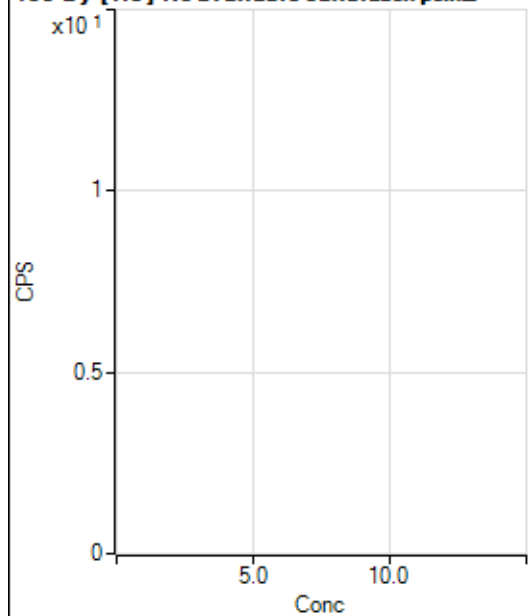
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			24.44		P	78.7
3	☐			142.23		P	27.5
4	☐			346.69		P	17.1
5	☐			708.93		P	12.8
6	☐			1335.67		P	5.5
7	☐			2633.68		P	1.6
8	☐			208.90		P	13.3

150 Nd [He] No available calibration points

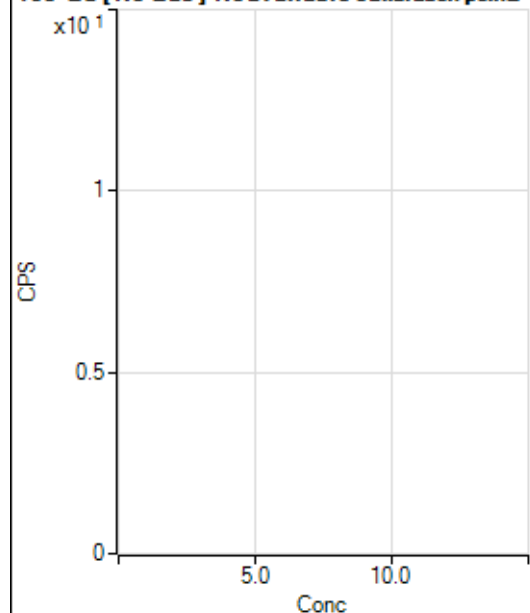
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			5.55		P	69.3
4	☐			22.22		P	22.9
5	☐			47.78		P	4.0
6	☐			95.55		P	31.7
7	☐			187.78		P	6.2
8	☐			77.78		P	17.3

156 Dy [No Gas] No available calibration points

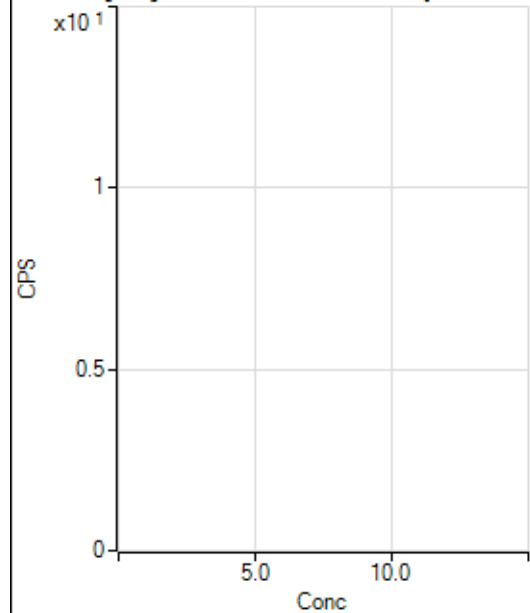
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.45		P	28.7
2	☐			27.78		P	45.8
3	☐			69.45		P	50.0
4	☐			111.12		P	21.7
5	☐			150.01		P	20.0
6	☐			350.02		P	21.2
7	☐			708.38		P	3.1
8	☐			1116.76		P	11.1

156 Dy [He] No available calibration points

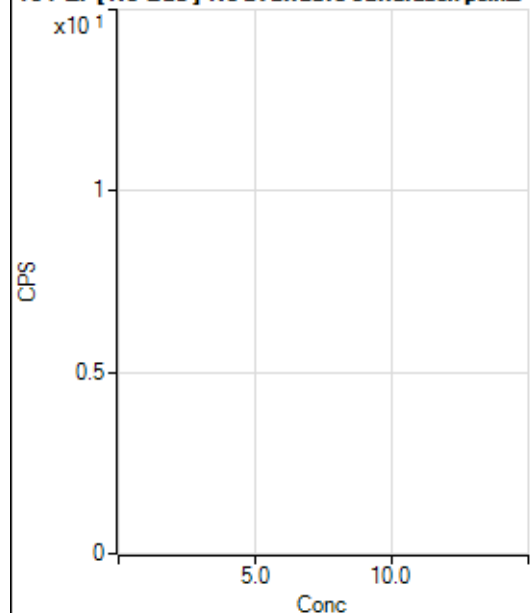
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	89.2
2	☐			18.89		P	27.0
3	☐			41.11		P	26.1
4	☐			82.22		P	18.3
5	☐			134.45		P	7.2
6	☐			224.45		P	7.3
7	☐			482.24		P	8.4
8	☐			546.69		P	10.0

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

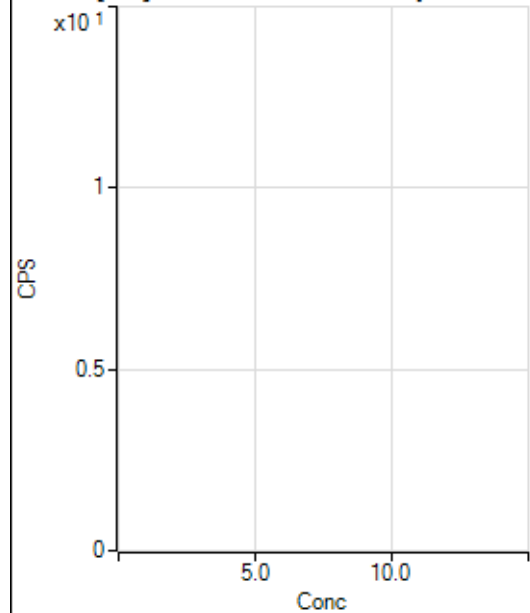
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			136.12		P	9.4
2	☐			141.67		P	20.4
3	☐			169.45		P	34.5
4	☐			200.01		P	20.8
5	☐			213.90		P	27.6
6	☐			263.90		P	9.6
7	☐			447.25		P	8.4
8	☐			1272.34		P	14.3

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			368.90		P	6.3
2	☐			324.45		P	13.9
3	☐			335.57		P	5.7
4	☐			364.46		P	9.2
5	☐			353.34		P	6.8
6	☐			354.46		P	4.7
7	☐			481.13		P	10.0
8	☐			945.61		P	3.5

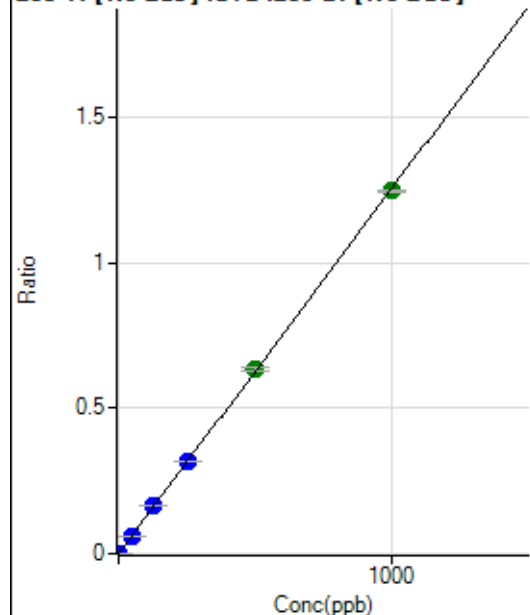
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			127.79		P	16.4
2	☐			122.23		P	37.6
3	☐			138.90		P	46.6
4	☐			83.34		P	26.5
5	☐			152.79		P	22.7
6	☐			133.34		P	6.2
7	☐			163.90		P	20.5
8	☐			211.12		P	9.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.78		P	32.2
2	☐			40.00		P	16.7
3	☐			56.67		P	5.9
4	☐			58.89		P	32.2
5	☐			63.33		P	27.9
6	☐			52.22		P	3.7
7	☐			67.78		P	41.2
8	☐			131.11		P	11.5

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	305.57	0.0000	P	25.6
2	☐	1.000	0.999	17133.92	0.0013	P	3.0
3	☐	50.000	49.943	820790.82	0.0626	P	0.3
4	☐	125.000	131.207	2135655.34	0.1644	P	0.8
5	☐	250.000	253.396	4109294.84	0.3175	P	0.6
6	☐	500.000	507.247	7889629.43	0.6356	A	1.8
7	☐	1000.000	994.754	15256411.28	1.2465	A	0.7
8	☐			4134.17	0.0004	P	4.3

$$y = 0.0013 * x + 2.2554E-005$$

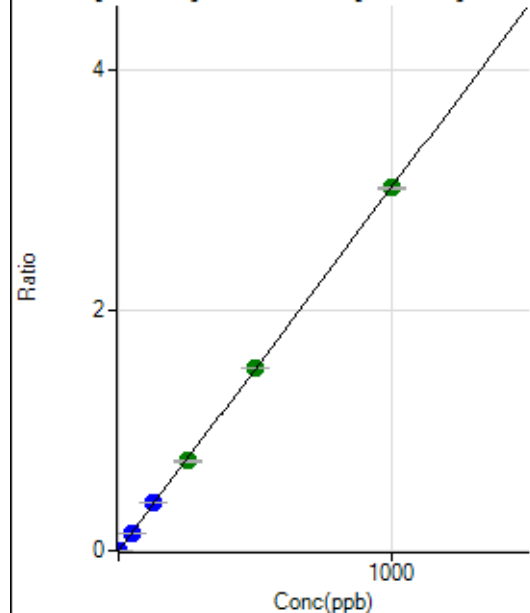
$$R = 0.9999$$

$$DL = 0.01381$$

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	738.94	0.0001	P	3.9
2	☐	1.000	0.997	41187.18	0.0031	P	1.7
3	☐	50.000	49.437	1956283.99	0.1492	P	1.5
4	☐	125.000	130.531	5116292.39	0.3939	P	0.3
5	☐	250.000	247.200	9653023.65	0.7459	A	1.1
6	☐	500.000	502.665	18827016.39	1.5167	A	0.9
7	☐	1000.000	998.704	36882868.53	3.0134	A	0.6
8	☐			9870.70	0.0010	P	1.1

$$y = 0.0030 * x + 5.4433E-005$$

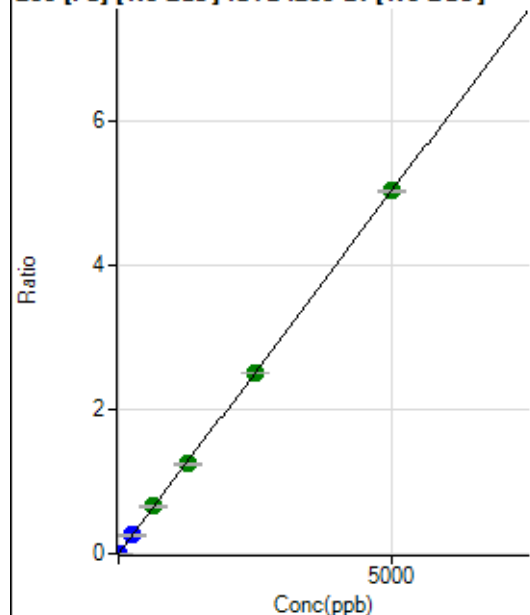
$$R = 1.0000$$

$$DL = 0.002087$$

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	790.79	0.0001	P	7.2
2	☐	1.000	1.016	14493.38	0.0011	P	1.0
3	☐	250.000	252.755	3326246.40	0.2537	P	0.7
4	☐	625.000	650.090	8474129.35	0.6524	A	0.7
5	☐	1250.000	1237.381	16069904.53	1.2418	A	1.4
6	☐	2500.000	2494.132	31070790.28	2.5029	A	0.8
7	☐	5000.000	5002.815	61448161.56	5.0204	A	0.8
8	☐			54142.12	0.0054	P	1.2

$$y = 0.0010 * x + 5.8275E-005$$

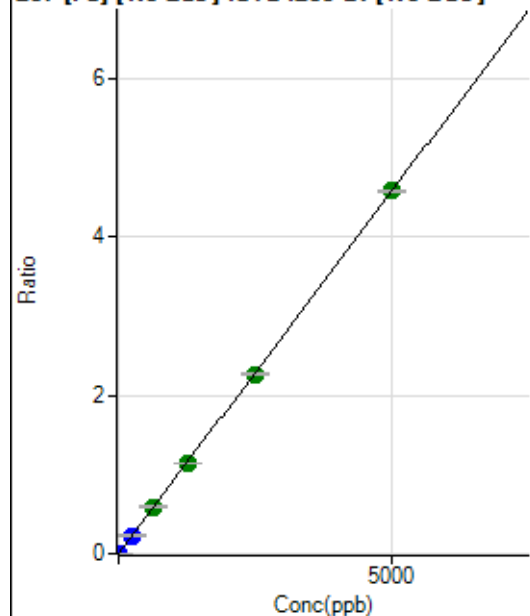
$$R = 1.0000$$

$$DL = 0.01254$$

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	696.34	0.0001	P	14.1
2	☐	1.000	0.969	12598.94	0.0009	P	1.7
3	☐	250.000	251.428	3013306.52	0.2298	P	0.7
4	☐	625.000	650.039	7717009.90	0.5941	A	1.1
5	☐	1250.000	1245.863	14735495.47	1.1386	A	0.8
6	☐	2500.000	2478.449	28116511.04	2.2651	A	1.2
7	☐	5000.000	5008.608	56026358.20	4.5774	A	0.8
8	☐			48724.87	0.0049	P	1.8

$$y = 9.1389E-004 * x + 5.1352E-005$$

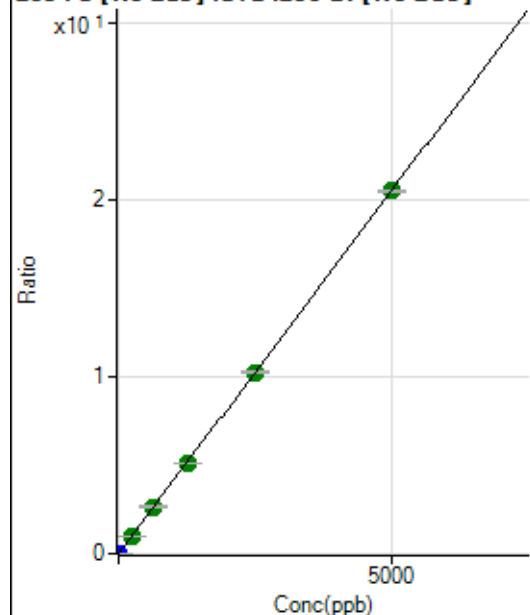
$$R = 1.0000$$

$$DL = 0.02383$$

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	3311.39	0.0002	P	5.0
2	☐	1.000	0.993	57963.94	0.0043	P	1.4
3	☐	250.000	249.454	13402230.39	1.0222	A	0.6
4	☐	625.000	647.747	34471349.61	2.6539	A	0.4
5	☐	1250.000	1244.295	65971833.65	5.0978	A	1.3
6	☐	2500.000	2499.352	127106730.1	10.2395	A	0.5
7	☐	5000.000	4998.934	250670181.9	20.4798	A	0.4
8	☐			219688.86	0.0221	P	0.2

$$y = 0.0041 * x + 2.4406E-004$$

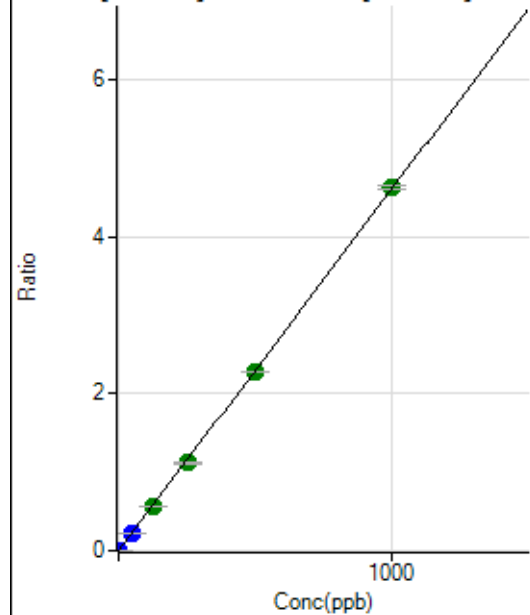
$$R = 1.0000$$

$$DL = 0.008883$$

Weight: <None>

Min Conc: 0

232 Th [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	631.52	0.0000	P	14.3
2	☐	1.000	0.619	38932.55	0.0029	P	3.1
3	☐	50.000	45.652	2754208.80	0.2101	P	0.6
4	☐	125.000	124.662	7449634.48	0.5735	A	0.4
5	☐	250.000	242.661	14447098.70	1.1164	A	1.4
6	☐	500.000	495.069	28272249.94	2.2776	A	0.6
7	☐	1000.000	1004.560	56563639.69	4.6214	A	1.2
8	☐			17245.06	0.0017	P	3.2

$$y = 0.0046 * x + 4.6497E-005$$

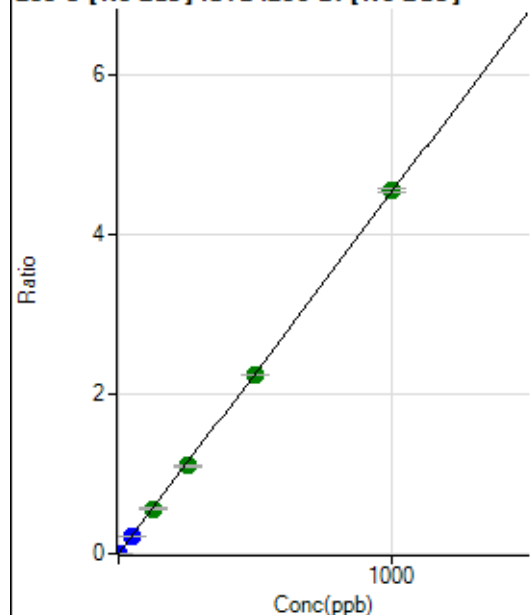
$$R = 1.0000$$

$$DL = 0.004343$$

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	66.67	0.0000	P	12.8
2	☐	1.000	0.918	55870.97	0.0042	P	1.4
3	☐	50.000	47.446	2812350.26	0.2145	P	1.2
4	☐	125.000	124.965	7338005.63	0.5650	A	1.0
5	☐	250.000	242.551	14190634.34	1.0966	A	1.5
6	☐	500.000	494.940	27775989.51	2.2376	A	0.8
7	☐	1000.000	1004.524	55585163.05	4.5414	A	0.9
8	☐			6902.12	0.0007	P	6.1

$$y = 0.0045 * x + 4.9139E-006$$

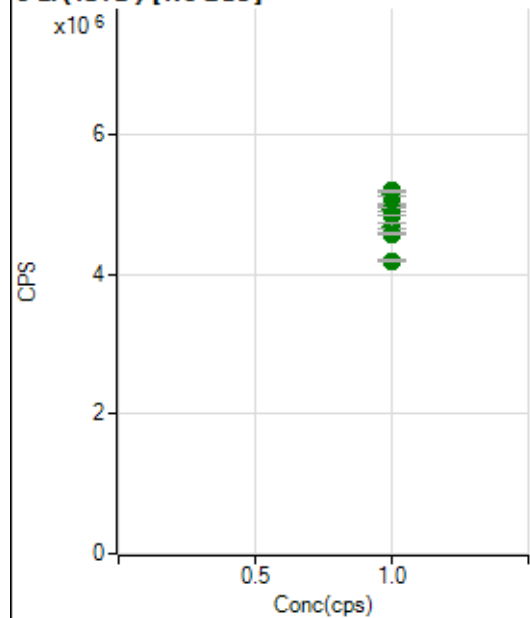
$$R = 0.9999$$

$$DL = 0.0004167$$

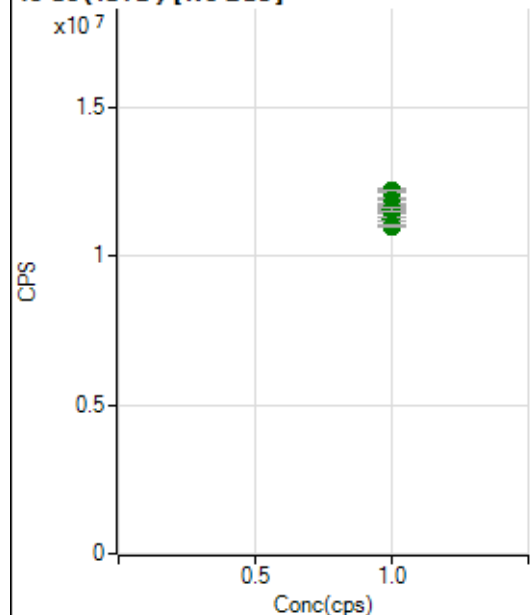
Weight: <None>

Min Conc: 0

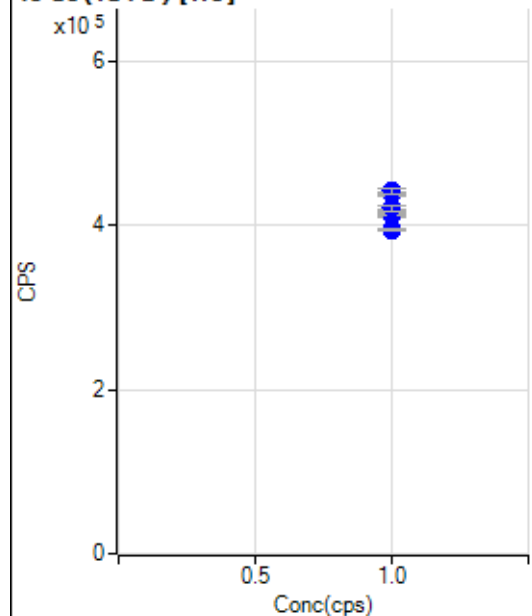
6 Li (ISTD) [No Gas]



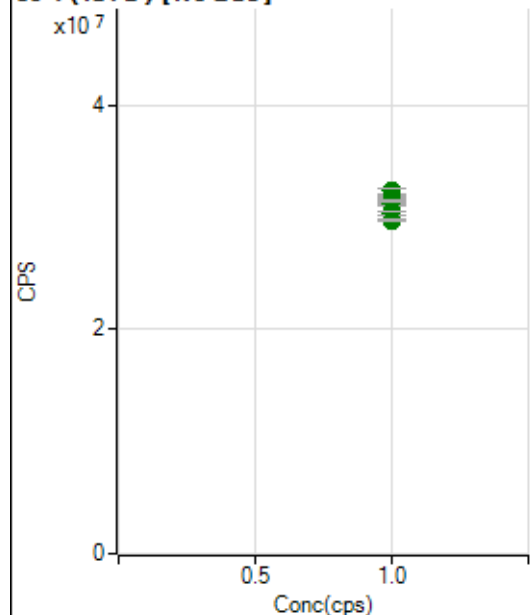
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		5143856.62		A	1.2
2	☐	1.000		5189079.12		A	0.5
3	☐	1.000		4996054.61		A	0.5
4	☐	1.000		4920310.24		A	0.9
5	☐	1.000		4839570.52		A	0.2
6	☐	1.000		4687402.78		A	1.8
7	☐	1.000		4572334.62		A	0.4
8	☐	1.000		4186703.23		A	0.6

45 Sc (ISTD) [No Gas]

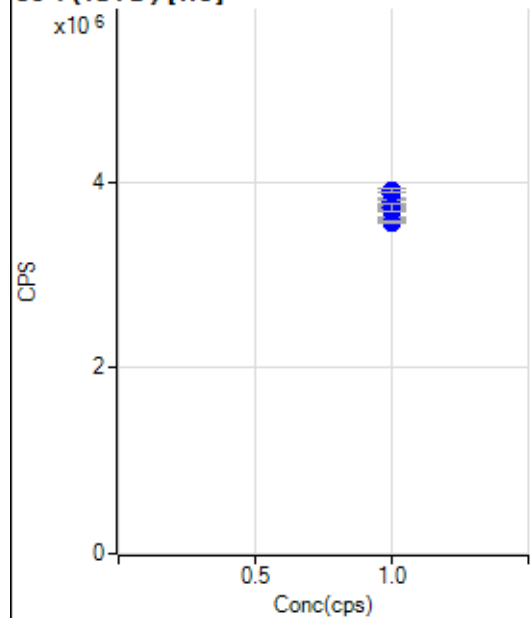
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12185054.13		A	1.1
2	☐	1.000		12185983.84		A	0.4
3	☐	1.000		11914196.91		A	0.7
4	☐	1.000		11742168.99		A	0.7
5	☐	1.000		11485978.86		A	1.2
6	☐	1.000		11240462.89		A	0.9
7	☐	1.000		11552270.52		A	0.8
8	☐	1.000		10987947.48		A	0.7

45 Sc (ISTD) [He]

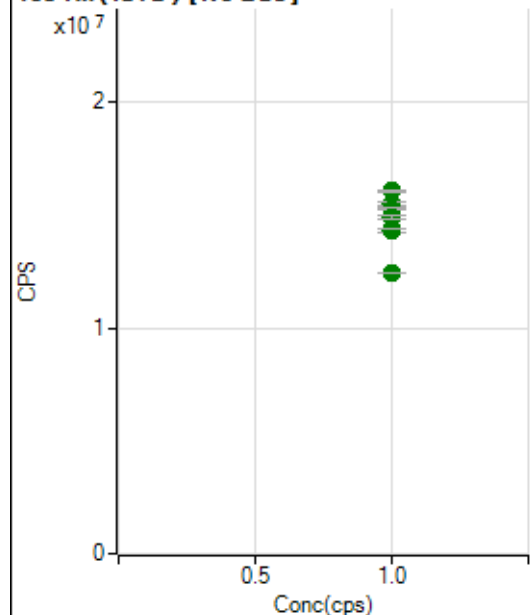
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		439146.28		P	1.1
2	☐	1.000		442217.47		P	1.5
3	☐	1.000		422362.42		P	0.8
4	☐	1.000		412534.28		P	0.6
5	☐	1.000		394786.80		P	0.8
6	☐	1.000		394953.96		P	0.7
7	☐	1.000		414366.83		P	0.5
8	☐	1.000		420996.01		P	2.0

89 Y (ISTD) [No Gas]

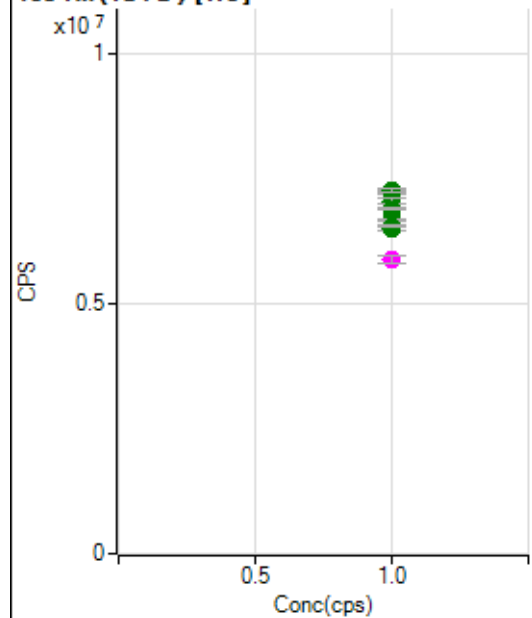
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		31965528.97		A	0.4
2	☐	1.000		32378357.57		A	1.4
3	☐	1.000		31457326.48		A	1.3
4	☐	1.000		31668763.69		A	1.0
5	☐	1.000		31226460.37		A	0.8
6	☐	1.000		30415125.94		A	1.0
7	☐	1.000		31492480.36		A	0.9
8	☐	1.000		29743662.61		A	0.3

89 Y (ISTD) [He]

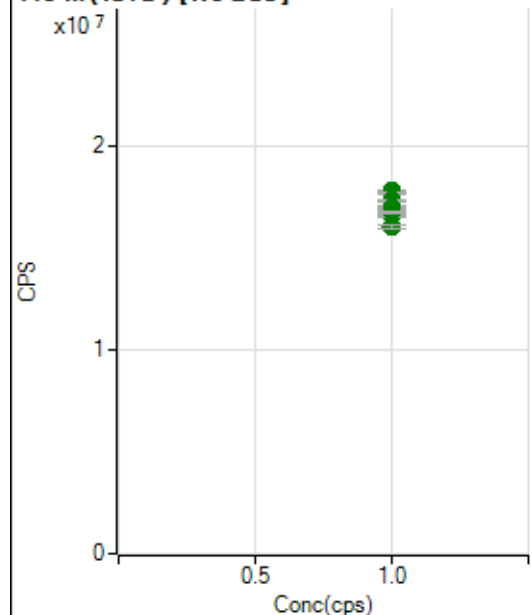
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3860761.26		P	1.3
2	☐	1.000		3903363.07		P	1.0
3	☐	1.000		3776179.32		P	1.2
4	☐	1.000		3717659.56		P	0.6
5	☐	1.000		3609832.86		P	0.8
6	☐	1.000		3568731.20		P	0.8
7	☐	1.000		3691864.56		P	0.1
8	☐	1.000		3729069.77		P	2.3

103 Rh (ISTD) [No Gas]

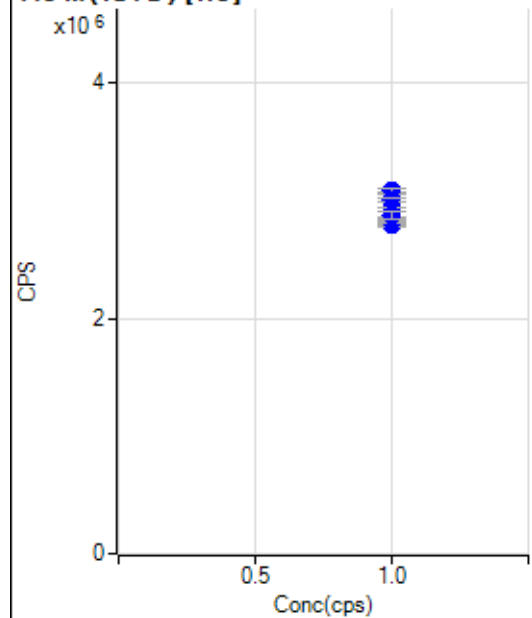
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		16059354.35		A	0.7
2	☐	1.000		16049899.90		A	0.9
3	☐	1.000		15510160.60		A	1.1
4	☐	1.000		15264287.69		A	0.2
5	☐	1.000		14919456.58		A	1.3
6	☐	1.000		14290971.04		A	1.1
7	☐	1.000		14390952.84		A	0.3
8	☐	1.000		12437885.79		A	0.3

103 Rh (ISTD) [He]

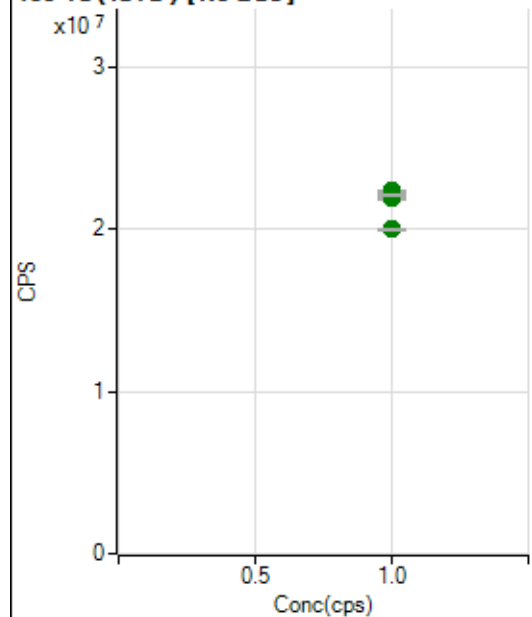
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7243066.21		A	1.2
2	☐	1.000		7263242.26		A	1.0
3	☐	1.000		7053374.89		A	1.5
4	☐	1.000		6893597.74		A	0.6
5	☐	1.000		6685520.87		A	0.7
6	☐	1.000		6503024.97		A	0.9
7	☐	1.000		6554512.61		A	0.7
8	☐	1.000		5873112.20		M	2.7

115 In (ISTD) [No Gas]

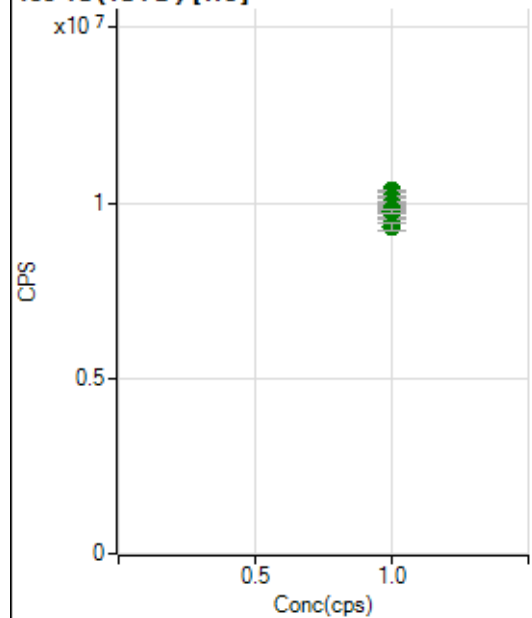
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		17799719.51		A	0.8
2	☐	1.000		17695865.44		A	0.4
3	☐	1.000		17314277.57		A	0.6
4	☐	1.000		17012129.55		A	0.5
5	☐	1.000		16938481.00		A	0.6
6	☐	1.000		16559686.15		A	0.3
7	☐	1.000		16759845.49		A	0.5
8	☐	1.000		16031401.96		A	1.3

115 In (ISTD) [He]

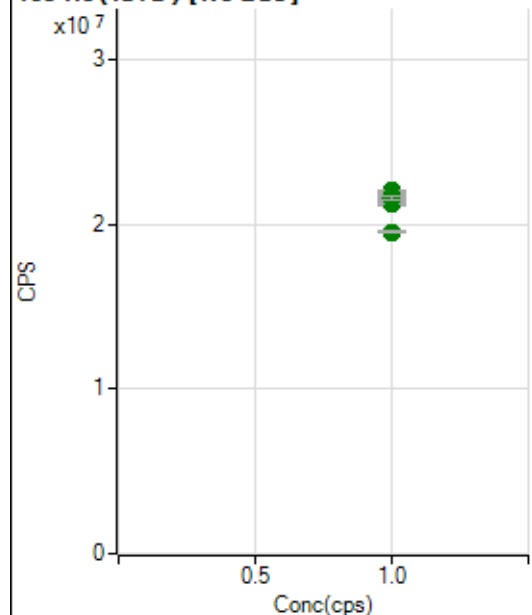
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3065186.58		P	0.4
2	☐	1.000		3081631.30		P	1.5
3	☐	1.000		3004983.42		P	1.3
4	☐	1.000		2939709.49		P	0.3
5	☐	1.000		2853915.91		P	0.8
6	☐	1.000		2785854.41		P	0.9
7	☐	1.000		2818833.23		P	0.5
8	☐	1.000		2871266.04		P	2.5

159 Tb (ISTD) [No Gas]

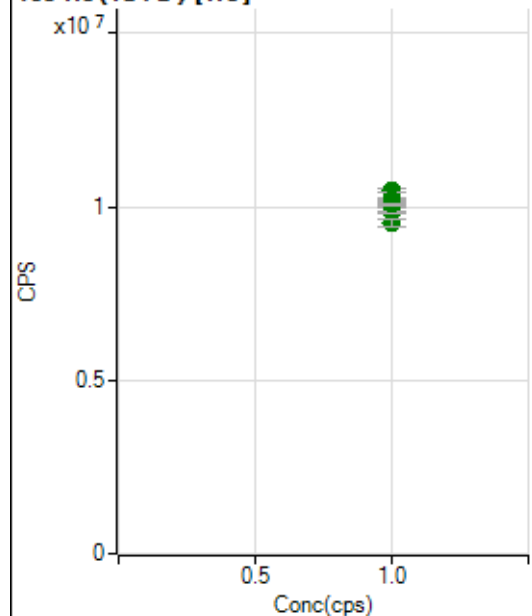
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1		1.000		22329623.83		A	0.8
2		1.000		22183638.28		A	0.8
3		1.000		21875513.56		A	1.4
4		1.000		22016929.67		A	1.2
5		1.000		22185548.56		A	0.3
6		1.000		21975682.45		A	0.5
7		1.000		22077092.72		A	1.0
8		1.000		19966337.34		A	0.8

159 Tb (ISTD) [He]

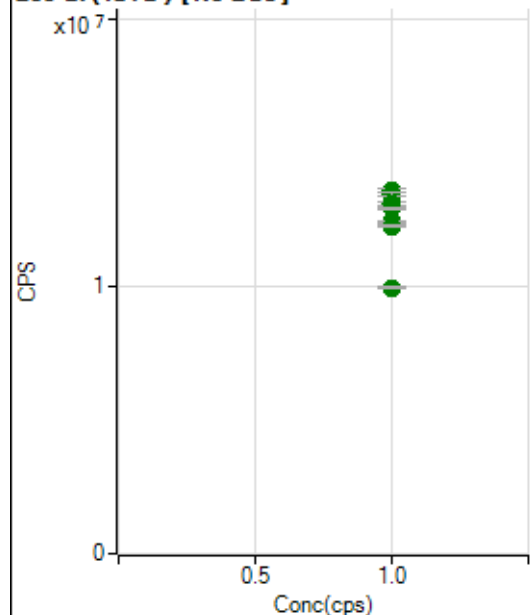
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1		1.000		10345522.28		A	0.6
2		1.000		10159547.98		A	0.8
3		1.000		9923950.13		A	0.3
4		1.000		10000832.70		A	0.8
5		1.000		9813443.60		A	1.0
6		1.000		9565331.32		A	0.8
7		1.000		9754466.24		A	1.1
8		1.000		9321352.57		A	2.2

165 Ho (ISTD) [No Gas]

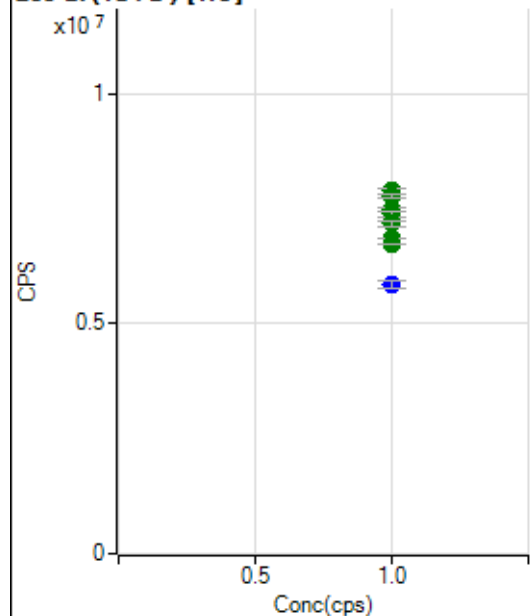
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		22047341.62		A	0.8
2	☐	1.000		21784601.06		A	0.3
3	☐	1.000		21318024.68		A	1.0
4	☐	1.000		21356007.74		A	1.5
5	☐	1.000		21651247.73		A	0.7
6	☐	1.000		21272193.71		A	0.6
7	☐	1.000		21623906.07		A	0.7
8	☐	1.000		19573360.82		A	0.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10454515.74		A	1.0
2	☐	1.000		10424257.35		A	0.3
3	☐	1.000		10178319.09		A	1.5
4	☐	1.000		10156521.17		A	1.2
5	☐	1.000		10058953.11		A	1.6
6	☐	1.000		9839956.52		A	1.0
7	☐	1.000		10059375.89		A	0.5
8	☐	1.000		9539037.84		A	2.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13572378.83		A	1.1
2	☐	1.000		13447372.02		A	0.7
3	☐	1.000		13111570.64		A	0.9
4	☐	1.000		12989121.19		A	0.9
5	☐	1.000		12941725.36		A	0.6
6	☐	1.000		12413551.06		A	0.6
7	☐	1.000		12240058.29		A	0.6
8	☐	1.000		9938642.28		A	0.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7884531.20		A	1.3
2	☐	1.000		7772146.83		A	0.6
3	☐	1.000		7477960.23		A	1.0
4	☐	1.000		7382492.11		A	1.7
5	☐	1.000		7168296.91		A	1.4
6	☐	1.000		6851020.73		A	0.2
7	☐	1.000		6736643.09		A	0.1
8	☐	1.000		5846991.51		P	2.3

US EPA Tune Check Sample Report

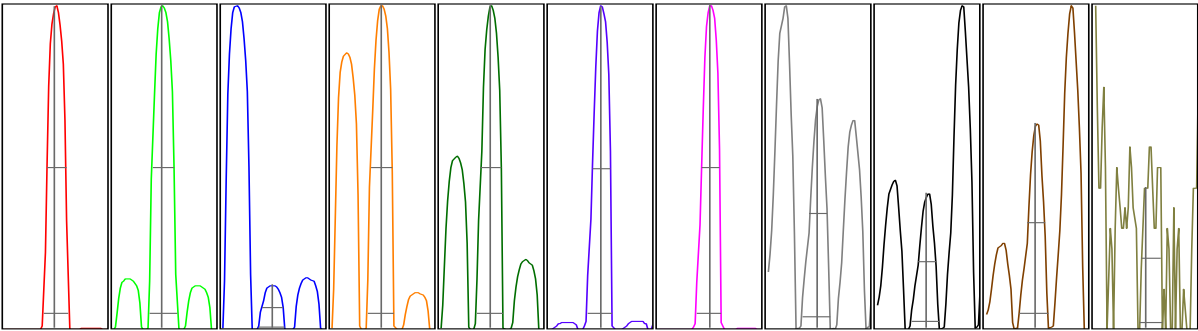
Batch Folder D:\ICP-MS Data\1\DATA\P7030720-MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	20031	2.57	5.00	
24	272219	4.57	5.00	
25	36505	3.17	5.00	
26	42767	3.10	5.00	
59	197716	2.76	5.00	
113	12890	2.61	5.00	
115	290326	3.32	5.00	
206	62433	2.89	5.00	
207	57393	2.86	5.00	
208	135173	2.57	5.00	
220	0	11.79		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	20144	19156	20295	20069	20493
24	276280	250260	277366	276029	281158
25	36799	34487	37098	36756	37386
26	43227	40464	43404	42936	43802
59	199255	188438	199349	198563	202974
113	13077	12367	12959	12795	13253
115	294904	273799	293631	290857	298438
206	63296	59352	62986	62538	63994
207	58225	54692	57640	57366	59044
208	136638	129289	135671	135822	138443
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	36150	9.00	8.9 - 9.1		0.734	0.900	
24	446999	23.95	23.9 - 24.1		0.819	0.900	
25	60506	25.00	24.9 - 25.1		0.763	0.900	
26	70953	26.00	25.9 - 26.1		0.781	0.900	
59	338506	59.00	58.9 - 59.1		0.783	0.900	
113	23748	113.05	112.9 - 113.1		0.737	0.900	
115	535586	115.05	114.9 - 115.1		0.735	0.900	
206	119590	206.00	205.9 - 206.1		0.823	0.900	
207	108644	207.00	206.9 - 207.1		0.819	0.900	
208	260230	208.00	207.9 - 208.1		0.829	0.900	
220	0	220.05	-		0.642		

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	7.9	V	Deflect	12.0	V
Extract 2	-125.0	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	180	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	46171	0.58	
89	91237	0.48	
205	53395	0.61	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	45827	46359	45961	46262	46448
89	90600	91705	91023	91299	91558
205	53324	53906	53064	53476	53206

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	8.4	V	Deflect	0.8	V
Extract 2	-145.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-70	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			