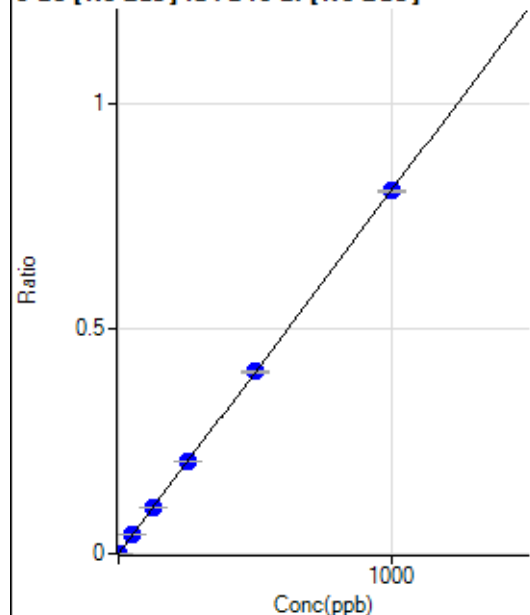


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7010721M.b\
Analysis File: P7010721M.batch.bin
DA Date-Time: 2021-01-07 16:35:17
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-01-07 16:22:43
2	005CALS.d	S02	2021-01-07 16:29:58
3	006CALS.d	S03	2021-01-07 16:33:34
4	007CALS.d	S04	2021-01-07 16:37:12
5	008CALS.d	S05	2021-01-07 16:40:50
6	009CALS.d	S06	2021-01-07 16:44:26
7	010CALS.d	S07	2021-01-07 16:47:56
8	011CALS.d	S08	2021-01-07 16:51:23

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	29.63	0.0000	P	29.4
2	☐	1.000	0.979	916.71	0.0008	P	8.3
3	☐	50.000	50.976	46279.79	0.0412	P	0.9
4	☐	125.000	125.824	108390.72	0.1017	P	2.0
5	☐	250.000	253.851	214842.97	0.2052	P	0.9
6	☐	500.000	500.275	424004.02	0.4043	P	1.2
7	☐	1000.000	998.748	836186.10	0.8071	P	0.6
8	☐			270.37	0.0003	P	13.9

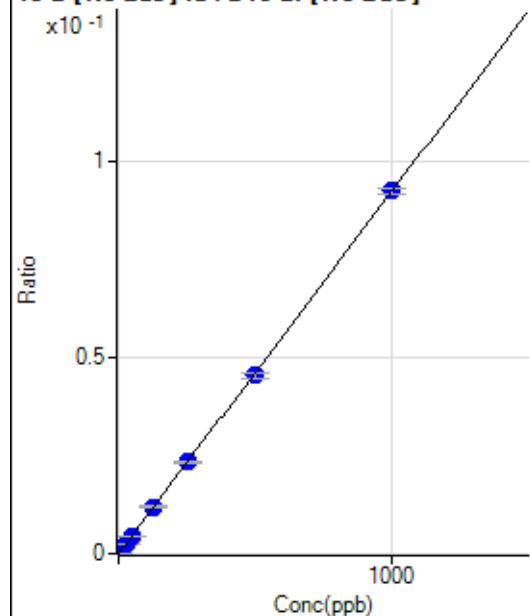
$$y = 8.0807E-004 * x + 2.7092E-005$$

$$R = 1.0000$$

$$DL = 0.02952$$

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	38.89	0.0000	P	12.0
2	☐	25.000	24.312	2550.27	0.0023	P	4.6
3	☐	50.000	48.748	5081.54	0.0045	P	1.7
4	☐	125.000	129.094	12705.61	0.0119	P	5.0
5	☐	250.000	253.062	24447.98	0.0233	P	1.2
6	☐	500.000	492.172	47577.90	0.0454	P	3.5
7	☐	1000.000	1002.716	95726.50	0.0924	P	1.7
8	☐			2641.96	0.0025	P	8.5

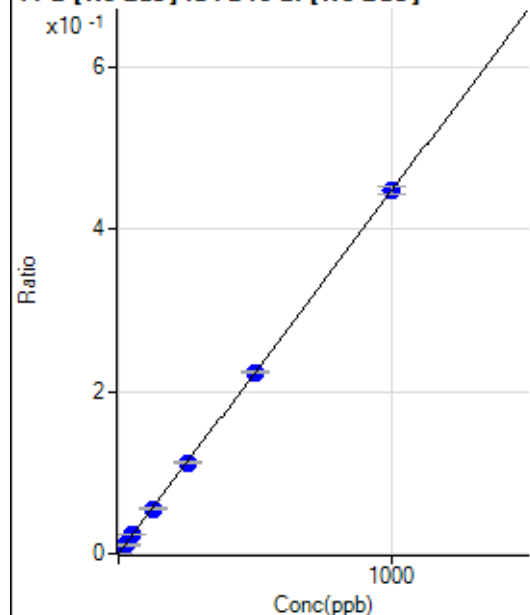
$$y = 9.2113E-005 * x + 3.5491E-005$$

$$R = 0.9999$$

$$DL = 0.1382$$

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	244.45	0.0002	P	15.3
2	☐	25.000	23.984	12274.69	0.0110	P	5.8
3	☐	50.000	50.458	25605.45	0.0228	P	0.9
4	☐	125.000	123.233	59015.39	0.0554	P	2.2
5	☐	250.000	250.352	117566.49	0.1123	P	0.9
6	☐	500.000	499.975	234918.74	0.2240	P	1.0
7	☐	1000.000	1000.148	463949.93	0.4478	P	2.3
8	☐			13067.10	0.0124	P	10.2

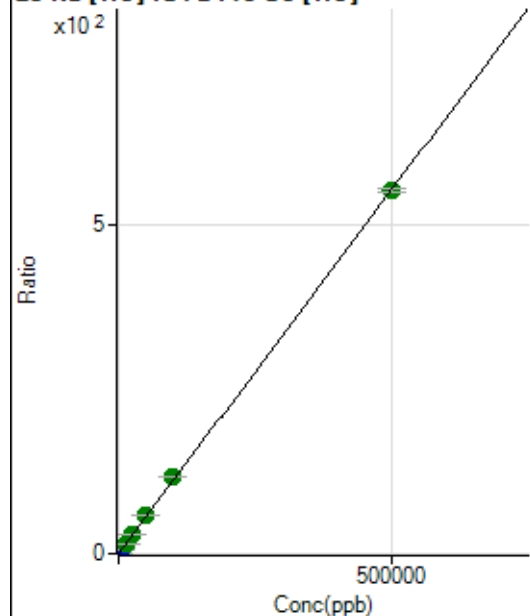
$$y = 4.4755\text{E-}004 * x + 2.2306\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.2292$$

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	24617.83	0.0685	P	3.3
2	☐	500.000	498.617	225568.77	0.6197	P	0.9
3	☐	5000.000	5285.616	2129793.23	5.9118	P	0.6
4	☐	12500.000	13271.342	4719699.19	14.7401	A	1.0
5	☐	25000.000	26500.867	9349241.27	29.3656	A	1.2
6	☐	50000.000	52414.543	18257622.28	58.0135	A	0.9
7	☐	100000.00	104680.21	36473501.16	115.7939	A	0.3
8	☐	500000.00	498725.32	174297751.1	551.4162	A	1.0

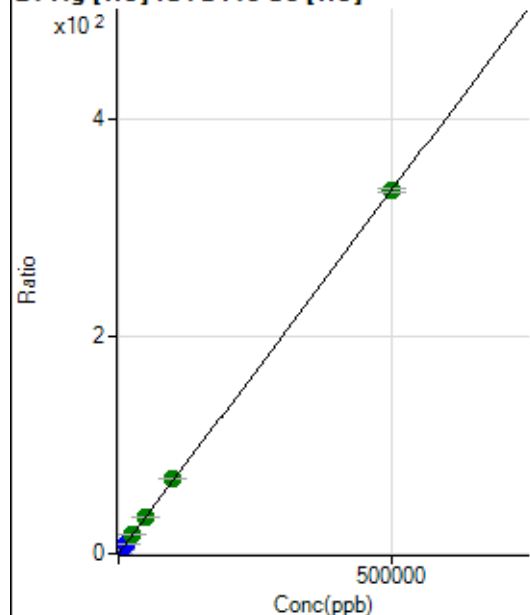
$$y = 0.0011 * x + 0.0685$$

$$R = 0.9999$$

$$DL = 6.106$$

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	236.12	0.0007	P	15.0
2	☐	500.000	478.105	116526.97	0.3201	P	0.8
3	☐	5000.000	5109.907	1230348.02	3.4151	P	0.2
4	☐	12500.000	12705.335	2718702.19	8.4905	P	1.2
5	☐	25000.000	26020.026	5536076.38	17.3875	A	0.4
6	☐	50000.000	51268.722	10781854.06	34.2588	A	0.6
7	☐	100000.00	102569.24	21588686.08	68.5383	A	0.6
8	☐	500000.00	499302.06	105459573.1	333.6384	A	1.1

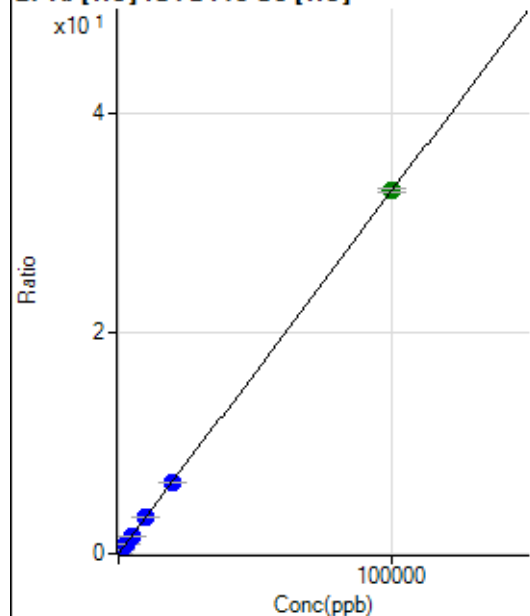
$$y = 6.6821E-004 * x + 6.5636E-004$$

$$R = 1.0000$$

$$DL = 0.4432$$

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	594.47	0.0017	P	2.3
2	☐	20.000	19.455	2928.15	0.0080	P	5.4
3	☐	1000.000	1001.723	119182.41	0.3308	P	1.2
4	☐	2500.000	2500.541	263631.15	0.8233	P	0.8
5	☐	5000.000	4974.807	520999.42	1.6364	P	1.3
6	☐	10000.000	9847.460	1018932.38	3.2375	P	0.6
7	☐	20000.000	19587.263	2027911.31	6.4380	P	1.3
8	☐	100000.00	100099.03	10397542.42	32.8940	A	0.9

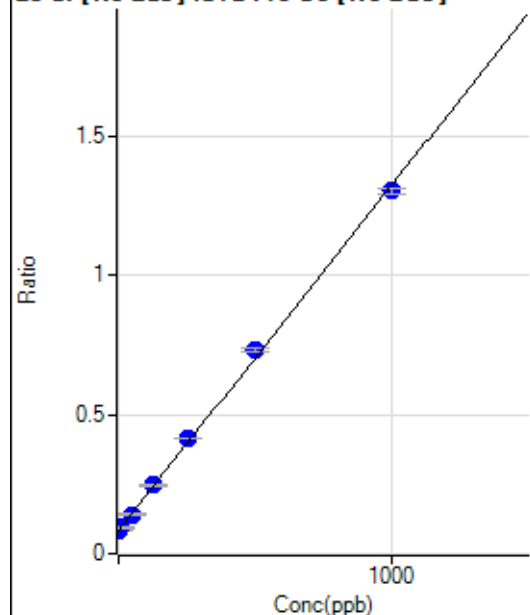
$$y = 3.2860E-004 * x + 0.0017$$

$$R = 1.0000$$

$$DL = 0.3504$$

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	293377.18	0.0844	P	1.9
2	☐	10.000	8.802	337528.90	0.0953	P	4.3
3	☐	50.000	45.459	498521.37	0.1408	P	1.6
4	☐	125.000	131.128	797859.70	0.2470	P	2.8
5	☐	250.000	266.141	1309858.73	0.4145	P	1.0
6	☐	500.000	522.329	2303356.89	0.7323	P	1.6
7	☐	1000.000	984.273	4059135.42	1.3054	P	1.8
8	☐			530250.32	0.1707	P	1.8

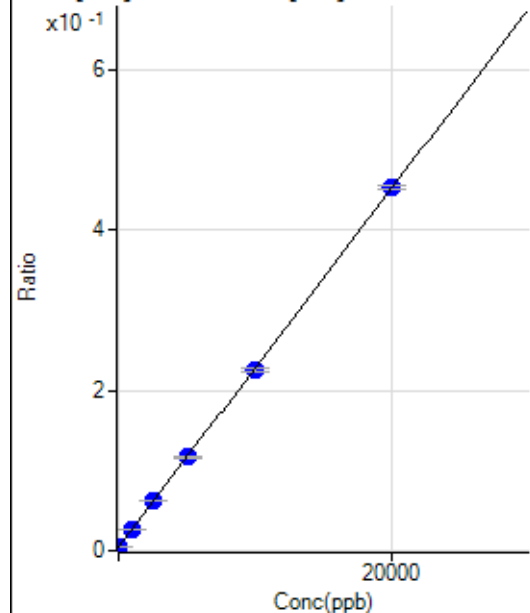
$$y = 0.0012 * x + 0.0844$$

$$R = 0.9994$$

$$DL = 3.863$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-5.124	1589.01	0.0044	P	7.9
2	☐	0.000	5.124	1691.79	0.0046	P	7.1
3	☐	1000.000	1003.021	9708.93	0.0269	P	1.1
4	☐	2500.000	2587.834	19969.34	0.0624	P	2.3
5	☐	5000.000	5029.052	37224.58	0.1169	P	1.2
6	☐	10000.000	9881.913	70929.30	0.2254	P	1.3
7	☐	20000.000	20040.650	142496.07	0.4524	P	1.2
8	☐			1508.45	0.0048	P	5.1

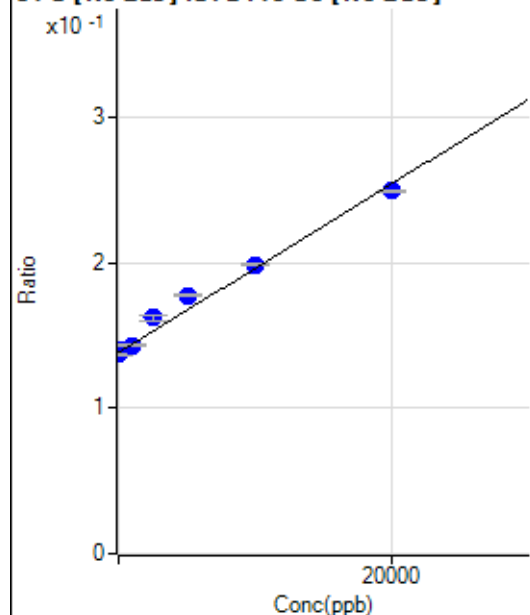
$$y = 2.2347E-005 * x + 0.0045$$

$$R = 1.0000$$

$$DL = 45.61$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	221.247	485295.52	0.1395	P	2.3
2	☐	0.000	-221.247	485245.45	0.1370	P	1.0
3	☐	1000.000	874.792	507683.00	0.1433	P	0.9
4	☐	2500.000	4149.075	524295.08	0.1623	P	2.5
5	☐	5000.000	6721.156	560057.46	0.1772	P	0.9
6	☐	10000.000	10426.104	625031.97	0.1987	P	0.9
7	☐	20000.000	19156.785	775346.44	0.2493	P	0.8
8	☐			430948.39	0.1388	P	1.5

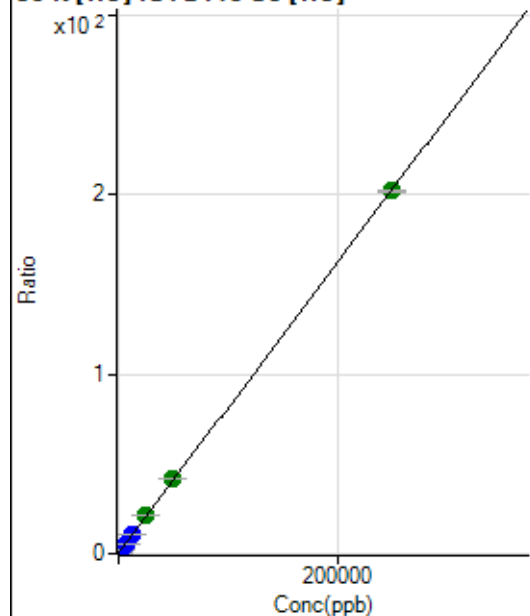
$$y = 5.7971\text{E-}006 * x + 0.1383$$

$$R = 0.9918$$

$$DL = 1176$$

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	106227.88	0.2955	P	1.0
2	☐	500.000	482.036	249485.15	0.6854	P	0.4
3	☐	2500.000	2611.206	867300.77	2.4074	P	0.9
4	☐	6250.000	6523.780	1784092.36	5.5718	P	0.3
5	☐	12500.000	12923.364	3421938.96	10.7477	P	1.2
6	☐	25000.000	25803.862	6661040.95	21.1652	A	0.7
7	☐	50000.000	51081.656	13106289.88	41.6093	A	0.8
8	☐	250000.00	249674.19	63923867.40	202.2268	A	0.6

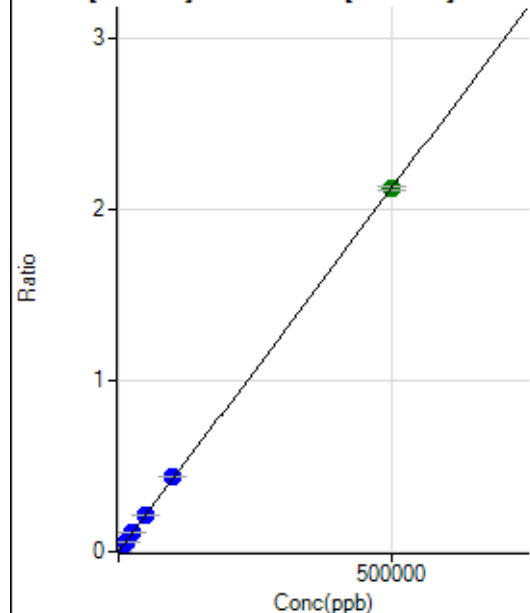
$$y = 8.0878\text{E-}004 * x + 0.2955$$

$$R = 1.0000$$

$$DL = 10.5$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	330.57	0.0001	P	20.9
2	☐	500.000	487.805	7685.52	0.0022	P	1.9
3	☐	5000.000	5218.539	78937.86	0.0223	P	2.0
4	☐	12500.000	12973.791	178556.64	0.0553	P	1.4
5	☐	25000.000	26149.979	351695.76	0.1113	P	1.4
6	☐	50000.000	51405.551	687916.94	0.2187	P	0.6
7	☐	100000.00	102772.66	1359379.58	0.4371	P	1.0
8	☐	500000.00	499233.39	6593781.27	2.1231	A	0.9

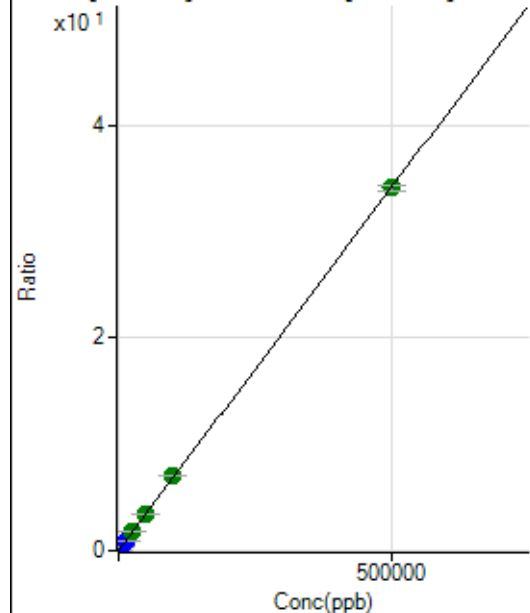
$$y = 4.2525\text{E-}006 * x + 9.5303\text{E-}005$$

$$R = 1.0000$$

$$DL = 14.08$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11760.52	0.0034	P	1.8
2	☐	500.000	493.485	131328.30	0.0371	P	0.6
3	☐	5000.000	5235.240	1277912.27	0.3608	P	0.1
4	☐	12500.000	12936.855	2864412.91	0.8866	P	1.4
5	☐	25000.000	26016.155	5623279.16	1.7795	A	0.8
6	☐	50000.000	51406.962	11050298.86	3.5130	A	0.3
7	☐	100000.00	102746.56	21825342.68	7.0180	A	0.5
8	☐	500000.00	499245.91	105857770.4	34.0875	A	1.7

$$y = 6.8271\text{E-}005 * x + 0.0034$$

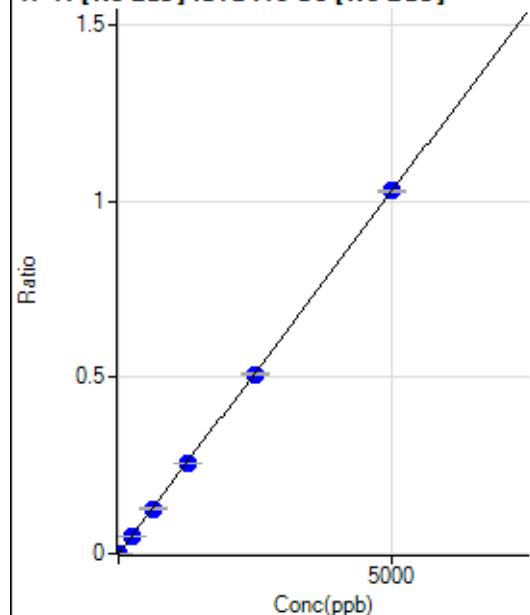
$$R = 1.0000$$

$$DL = 2.605$$

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	100.00	0.0000	P	32.1
2	☐	5.000	4.761	3564.41	0.0010	P	6.6
3	☐	250.000	250.859	182549.32	0.0515	P	0.8
4	☐	625.000	621.508	412354.30	0.1276	P	1.8
5	☐	1250.000	1251.607	812204.27	0.2570	P	1.1
6	☐	2500.000	2481.461	1602816.66	0.5096	P	1.5
7	☐	5000.000	5009.262	3198740.05	1.0286	P	0.6
8	☐			761.15	0.0002	P	7.4

$$y = 2.0534\text{E-}004 * x + 2.8693\text{E-}005$$

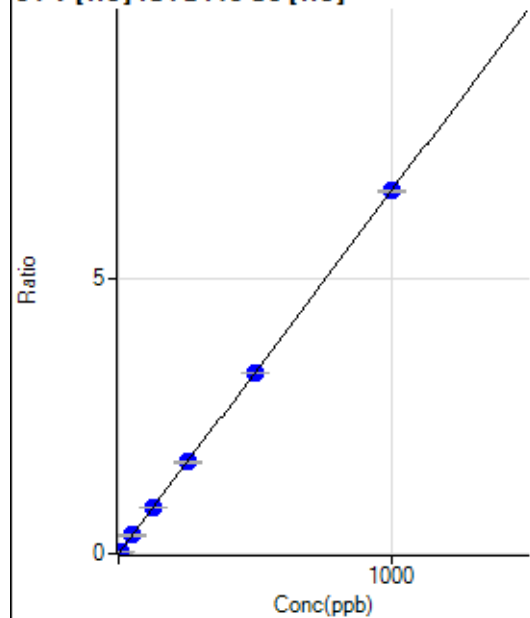
$$R = 1.0000$$

$$DL = 0.1347$$

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	11.11	0.0000	P	44.8
2	☐	5.000	4.821	11616.88	0.0319	P	2.1
3	☐	50.000	50.358	120020.39	0.3331	P	0.3
4	☐	125.000	125.725	266304.82	0.8317	P	0.8
5	☐	250.000	252.824	532491.32	1.6724	P	1.2
6	☐	500.000	498.843	1038511.81	3.2998	P	0.7
7	☐	1000.000	999.765	2083146.86	6.6134	P	0.6
8	☐			356.68	0.0011	P	3.0

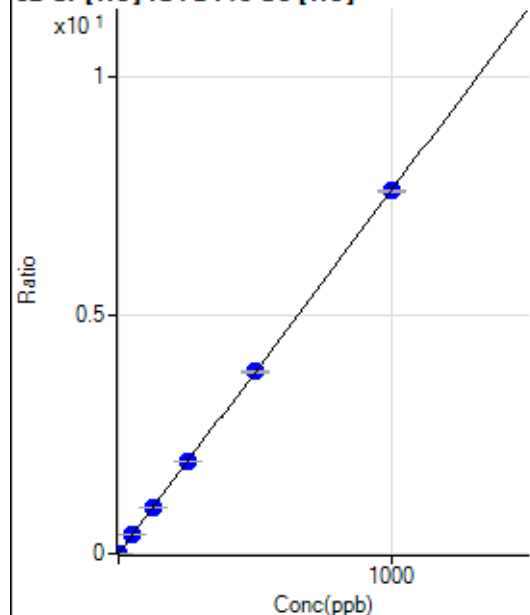
$$y = 0.0066 * x + 3.0836\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.006271$$

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	1198.95	0.0033	P	6.3
2	☐	2.000	1.928	6554.85	0.0180	P	2.1
3	☐	50.000	50.757	140375.59	0.3896	P	1.0
4	☐	125.000	126.842	310184.72	0.9687	P	0.8
5	☐	250.000	253.338	614943.82	1.9315	P	1.3
6	☐	500.000	501.165	1201493.03	3.8177	P	0.8
7	☐	1000.000	998.315	2394387.29	7.6015	P	0.5
8	☐			9721.06	0.0308	P	3.1

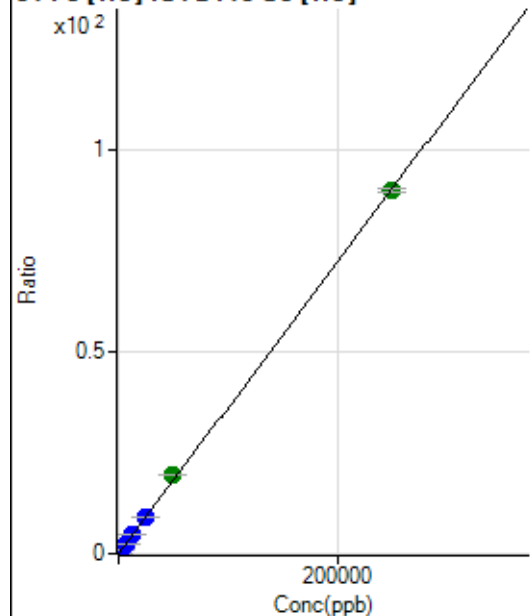
$$y = 0.0076 * x + 0.0033$$

$$R = 1.0000$$

$$DL = 0.08344$$

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	1695.17	0.0047	P	9.8
2	☐	50.000	50.670	8377.68	0.0230	P	5.6
3	☐	2500.000	2606.563	340828.12	0.9461	P	1.1
4	☐	6250.000	6495.056	752597.61	2.3504	P	0.6
5	☐	12500.000	12946.762	1490138.69	4.6804	P	1.1
6	☐	25000.000	25521.769	2902256.19	9.2218	P	0.7
7	☐	50000.000	53782.382	6119521.39	19.4280	A	0.1
8	☐	250000.00	249161.81	28444471.59	89.9884	A	1.0

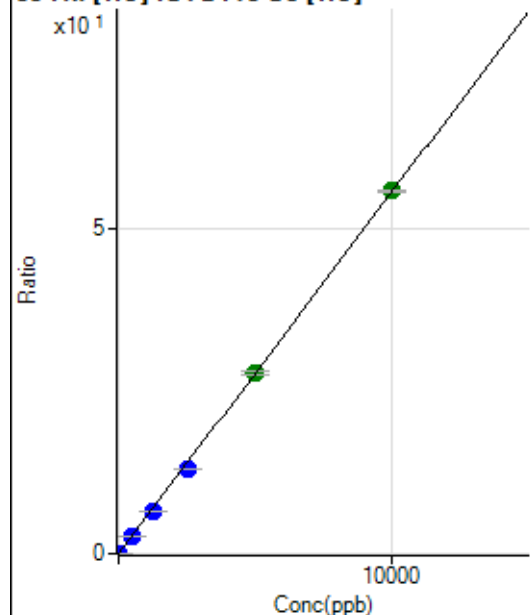
$$y = 3.6115E-004 * x + 0.0047$$

$$R = 0.9999$$

$$DL = 3.857$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	122.22	0.0003	P	6.1
2	☐	1.000	0.922	1986.82	0.0055	P	3.2
3	☐	500.000	473.517	947194.70	2.6292	P	0.3
4	☐	1250.000	1180.258	2098196.13	6.5528	P	0.6
5	☐	2500.000	2350.648	4155090.60	13.0506	P	1.1
6	☐	5000.000	5003.628	8742358.69	27.7792	A	1.4
7	☐	10000.000	10045.566	17567251.13	55.7708	A	0.7
8	☐			9209.61	0.0291	P	0.3

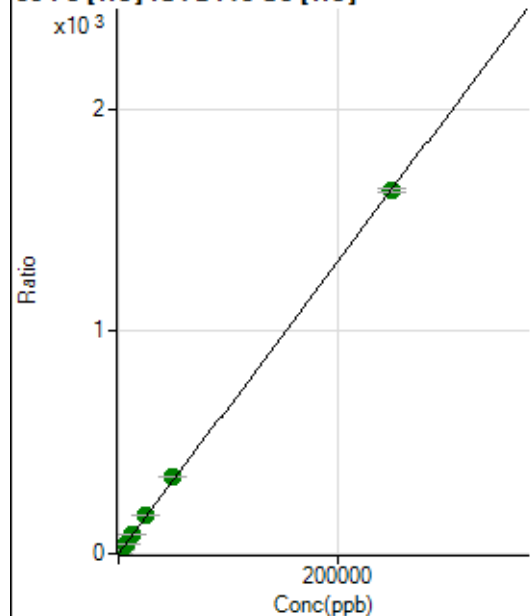
$$y = 0.0056 * x + 3.4010E-004$$

$$R = 0.9999$$

$$DL = 0.01117$$

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	8428.45	0.0234	P	2.5
2	☐	50.000	49.022	125244.70	0.3441	P	0.6
3	☐	2500.000	2665.922	6290349.79	17.4606	A	1.2
4	☐	6250.000	6683.821	14005079.48	43.7407	A	1.3
5	☐	12500.000	13341.351	27790996.45	87.2859	A	1.1
6	☐	25000.000	26390.857	54330819.73	172.6395	A	1.3
7	☐	50000.000	53008.568	109220155.2	346.7394	A	0.9
8	☐	250000.00	249204.62	515231944.8	1,630.009	A	0.9

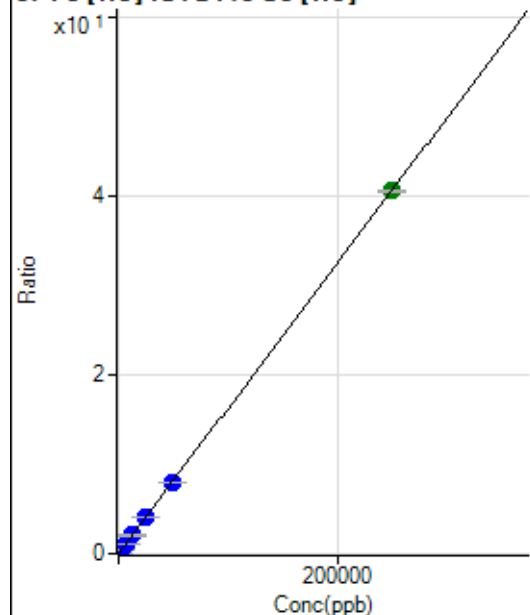
$$y = 0.0065 * x + 0.0234$$

$$R = 0.9999$$

$$DL = 0.2719$$

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	425.94	0.0012	P	17.4
2	☐	50.000	48.905	3317.09	0.0091	P	3.4
3	☐	2500.000	2521.586	147737.74	0.4101	P	1.3
4	☐	6250.000	6346.688	329927.60	1.0304	P	0.5
5	☐	12500.000	12627.117	652313.02	2.0488	P	0.9
6	☐	25000.000	24827.201	1267406.81	4.0272	P	1.2
7	☐	50000.000	49466.095	2527063.28	8.0227	P	0.5
8	☐	250000.00	250115.07	12820969.50	40.5604	A	0.4

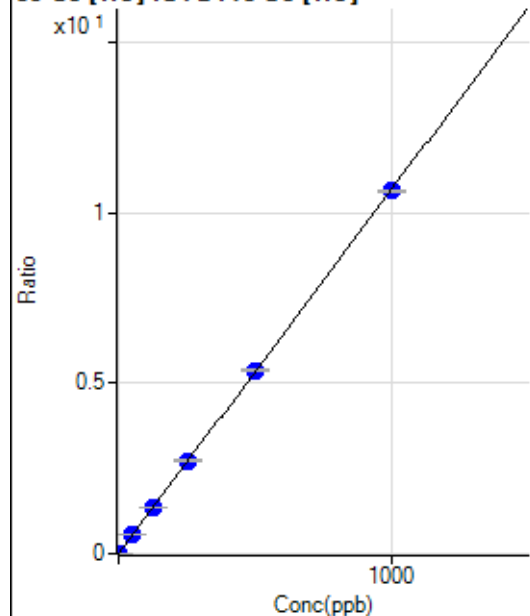
$$y = 1.6216\text{E-}004 * x + 0.0012$$

$$R = 1.0000$$

$$DL = 3.806$$

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	76.67	0.0002	P	16.5
2	☐	1.000	0.990	3926.11	0.0108	P	2.8
3	☐	50.000	51.341	197636.03	0.5486	P	0.3
4	☐	125.000	128.274	438776.38	1.3703	P	0.5
5	☐	250.000	255.210	867918.02	2.7261	P	1.8
6	☐	500.000	503.787	1693563.74	5.3812	P	0.6
7	☐	1000.000	996.328	3352122.03	10.6421	P	0.3
8	☐			5018.68	0.0159	P	0.7

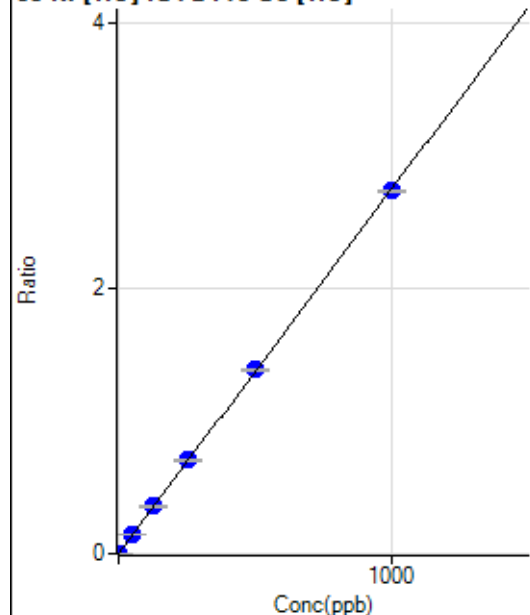
$$y = 0.0107 * x + 2.1351\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.009913$$

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	83.33	0.0002	P	5.9
2	☐	1.000	1.064	1146.72	0.0032	P	2.9
3	☐	50.000	51.952	51399.53	0.1427	P	0.4
4	☐	125.000	129.406	113680.11	0.3550	P	0.3
5	☐	250.000	256.181	223689.08	0.7026	P	1.6
6	☐	500.000	504.058	435002.99	1.3822	P	0.8
7	☐	1000.000	995.777	860028.23	2.7304	P	0.6
8	☐			2501.35	0.0079	P	1.3

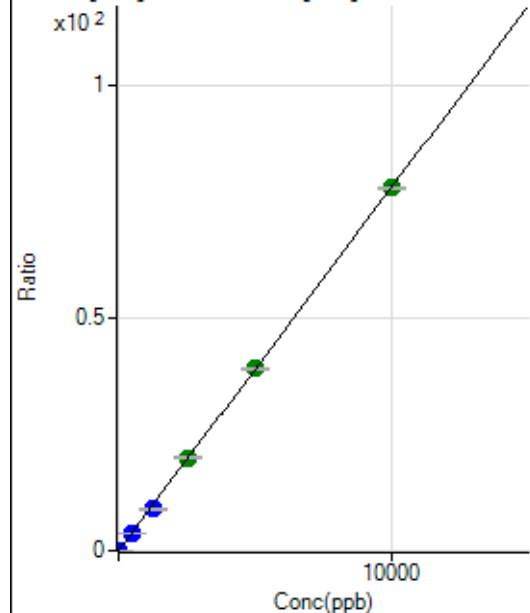
$$y = 0.0027 * x + 2.3175E-004$$

$$R = 1.0000$$

$$DL = 0.01504$$

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	1357.85	0.0038	P	7.9
2	☐	2.000	1.895	6751.60	0.0185	P	0.3
3	☐	500.000	460.537	1294633.30	3.5935	P	0.4
4	☐	1250.000	1138.529	2842829.75	8.8783	P	0.3
5	☐	2500.000	2560.336	6354045.05	19.9608	A	3.2
6	☐	5000.000	5025.133	12328275.51	39.1732	A	1.2
7	☐	10000.000	9988.257	24524703.80	77.8592	A	0.4
8	☐			9857.85	0.0312	P	1.7

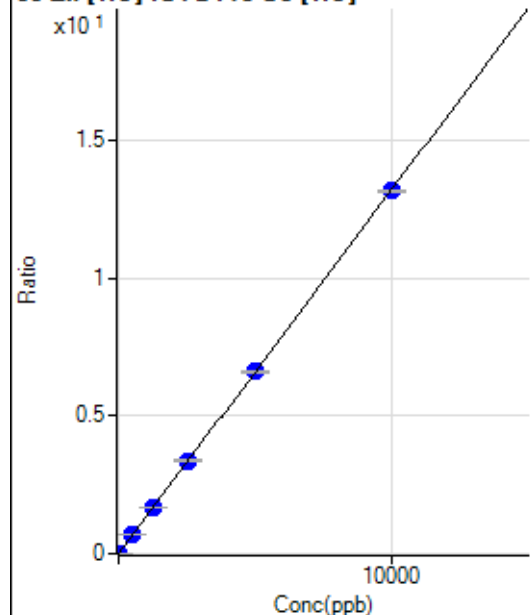
$$y = 0.0078 * x + 0.0038$$

$$R = 0.9999$$

$$DL = 0.1154$$

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	414.46	0.0012	P	7.1
2	☐	2.000	1.807	1286.74	0.0035	P	7.3
3	☐	500.000	512.765	243960.90	0.6772	P	0.6
4	☐	1250.000	1285.863	543189.94	1.6964	P	0.6
5	☐	2500.000	2556.161	1073282.25	3.3712	P	1.7
6	☐	5000.000	5016.950	2081952.78	6.6155	P	1.2
7	☐	10000.000	9972.364	4141667.47	13.1487	P	0.4
8	☐			5413.27	0.0171	P	0.4

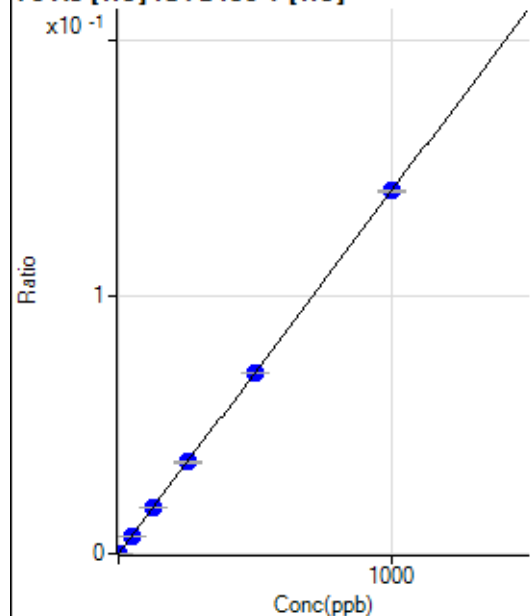
$$y = 0.0013 * x + 0.0012$$

$$R = 1.0000$$

$$DL = 0.1862$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.17	0.0000	P	34.5
2	☐	1.000	0.970	358.65	0.0001	P	17.2
3	☐	50.000	50.057	18110.06	0.0071	P	0.7
4	☐	125.000	125.866	40400.30	0.0178	P	0.4
5	☐	250.000	253.572	81586.67	0.0358	P	1.7
6	☐	500.000	497.974	158879.99	0.0703	P	0.4
7	☐	1000.000	1000.009	321479.25	0.1412	P	0.6
8	☐			144.45	0.0001	P	16.1

$$y = 1.4121E-004 * x + 2.4371E-006$$

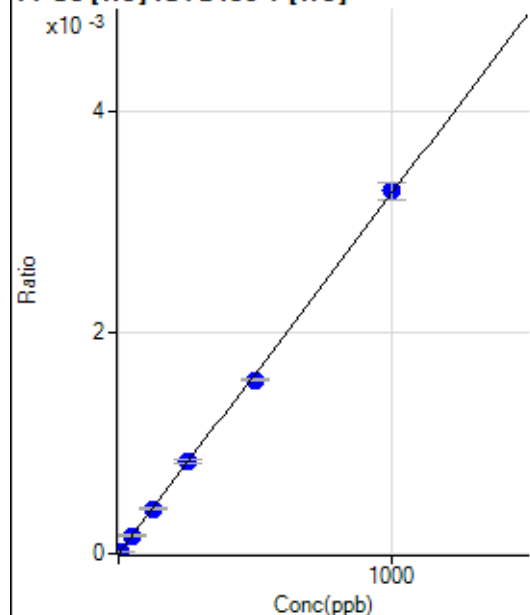
$$R = 1.0000$$

$$DL = 0.01789$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.583	46.66	0.0000	P	12.4
3	☐	50.000	50.733	422.23	0.0002	P	14.4
4	☐	125.000	125.451	926.71	0.0004	P	3.2
5	☐	250.000	255.698	1893.48	0.0008	P	3.4
6	☐	500.000	481.487	3536.02	0.0016	P	1.1
7	☐	1000.000	1007.736	7456.44	0.0033	P	5.0
8	☐			4.45	0.0000	P	86.6

$$y = 3.2505\text{E-}006 * x + 0.0000\text{E+}000$$

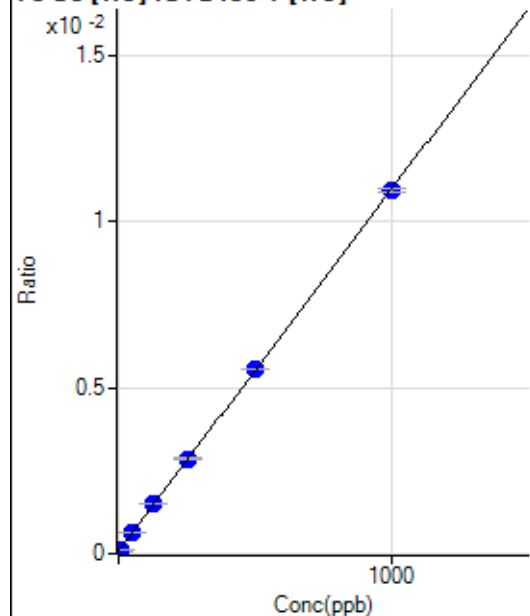
$$R = 0.9997$$

$$DL = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	192.59	0.0001	P	13.4
2	☐	5.000	5.210	341.36	0.0001	P	7.0
3	☐	50.000	50.958	1615.53	0.0006	P	5.3
4	☐	125.000	131.902	3435.61	0.0015	P	1.0
5	☐	250.000	255.607	6511.98	0.0029	P	1.1
6	☐	500.000	503.317	12548.67	0.0056	P	0.4
7	☐	1000.000	996.028	24852.13	0.0109	P	1.0
8	☐			170.99	0.0001	P	22.5

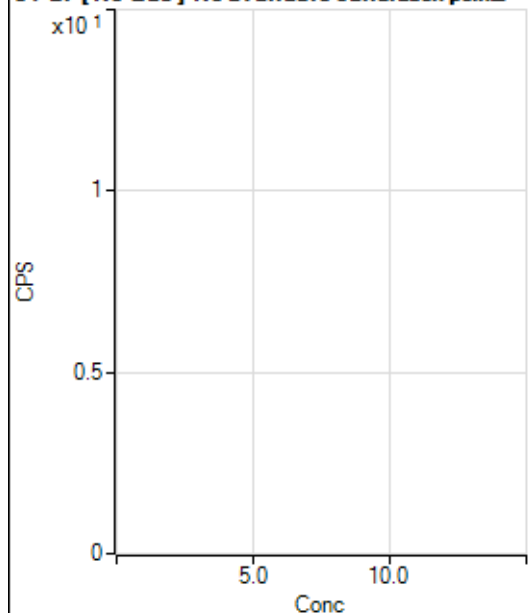
$$y = 1.0884\text{E-}005 * x + 7.6053\text{E-}005$$

$$R = 1.0000$$

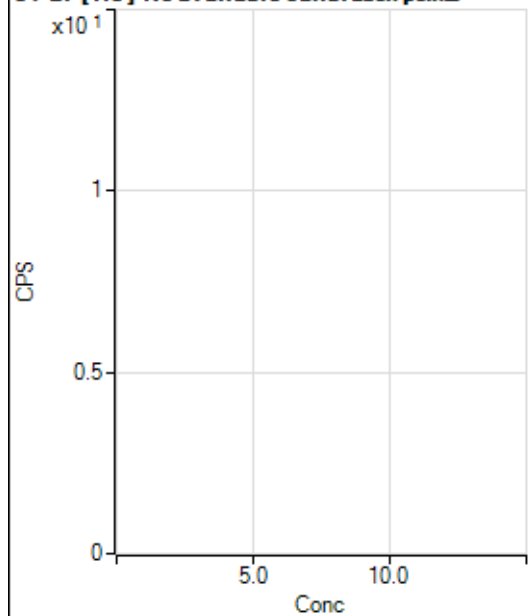
$$DL = 2.813$$

Weight: <None>

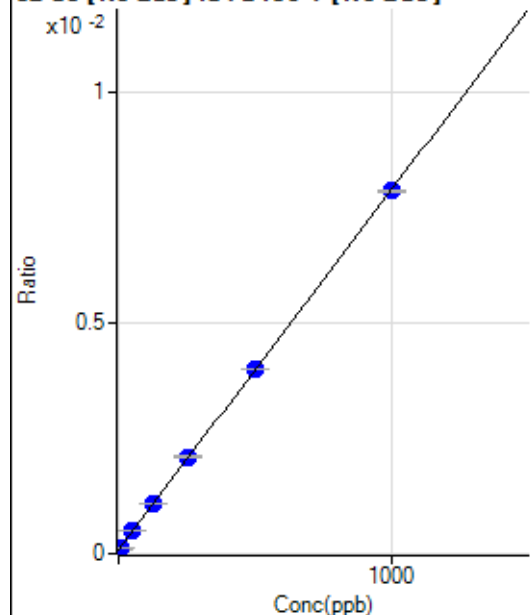
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3078.18		P	4.9
2	☐			2869.81		P	1.8
3	☐			2905.92		P	11.3
4	☐			2728.10		P	5.1
5	☐			2758.68		P	7.1
6	☐			2864.24		P	2.5
7	☐			2839.24		P	2.8
8	☐			2842.02		P	1.6

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.37		P	75.5
2	☐			53.39		P	47.2
3	☐			53.39		P	28.6
4	☐			46.71		P	12.4
5	☐			46.71		P	81.1
6	☐			30.03		P	33.3
7	☐			50.05		P	60.0
8	☐			66.73		P	70.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	813.48	0.0001	P	10.0
2	☐	5.000	6.007	1296.47	0.0001	P	6.6
3	☐	50.000	51.598	4789.19	0.0005	P	1.7
4	☐	125.000	128.395	9698.88	0.0011	P	2.6
5	☐	250.000	258.064	18435.80	0.0021	P	1.0
6	☐	500.000	501.715	35384.57	0.0040	P	0.4
7	☐	1000.000	996.617	69845.78	0.0079	P	0.5
8	☐			833.18	0.0001	P	1.4

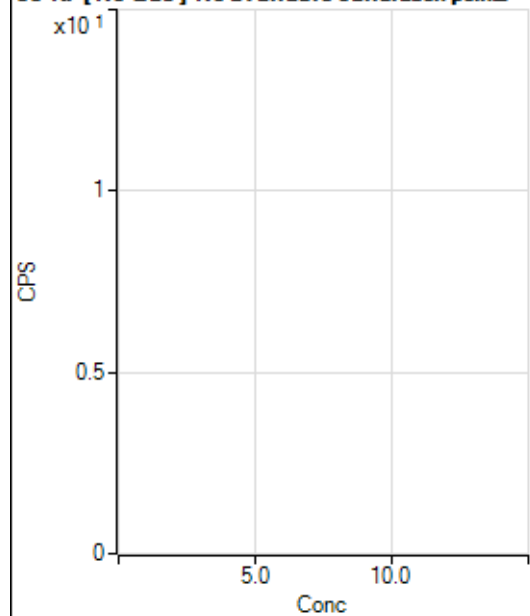
$$y = 7.8008E-006 * x + 8.4462E-005$$

$$R = 1.0000$$

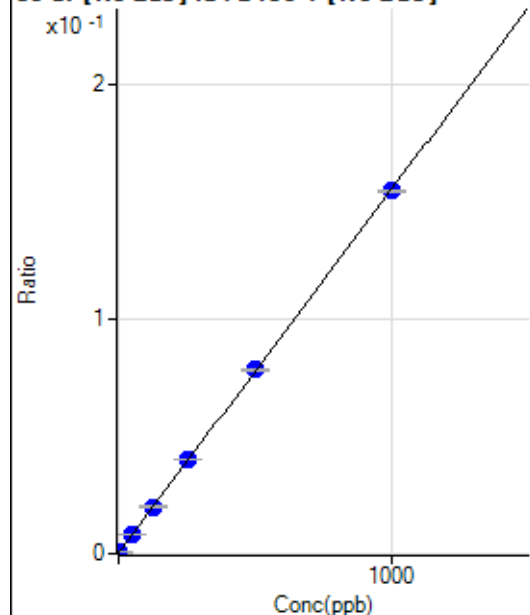
$$DL = 3.253$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			1734.57		P	5.5
2	☐			1745.68		P	5.1
3	☐			1745.68		P	2.9
4	☐			1755.68		P	5.1
5	☐			1711.23		P	4.2
6	☐			1627.88		P	0.6
7	☐			1632.33		P	5.7
8	☐			1522.32		P	2.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2739.22	0.0003	P	1.3
2	☐	1.000	1.080	4459.13	0.0005	P	7.3
3	☐	50.000	51.168	80784.70	0.0082	P	0.5
4	☐	125.000	126.744	177966.35	0.0199	P	2.1
5	☐	250.000	256.596	352019.95	0.0401	P	0.5
6	☐	500.000	504.154	693940.68	0.0784	P	1.1
7	☐	1000.000	995.998	1374364.07	0.1546	P	0.4
8	☐			10100.99	0.0012	P	2.3

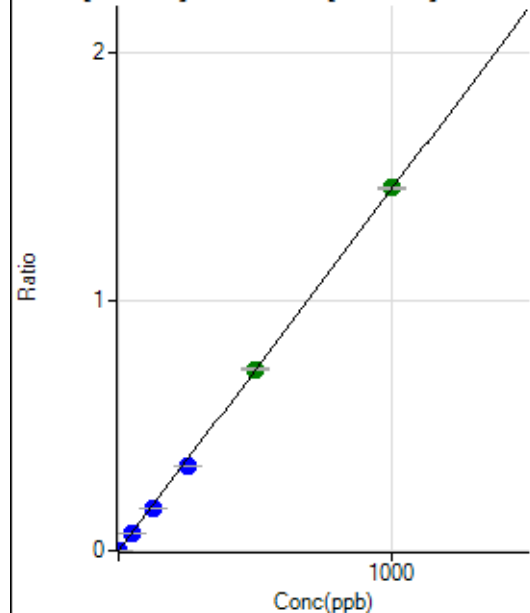
$$y = 1.5498\text{E-}004 * x + 2.8416\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.07198$$

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	86.11	0.0000	P	58.5
2	☐	1.000	0.891	12850.48	0.0013	P	2.1
3	☐	50.000	46.612	664956.47	0.0676	P	0.2
4	☐	125.000	116.067	1503671.20	0.1683	P	1.6
5	☐	250.000	233.794	2980312.78	0.3391	P	0.4
6	☐	500.000	502.484	6449319.63	0.7288	A	0.6
7	☐	1000.000	1004.096	12942316.43	1.4562	A	0.5
8	☐			63144.39	0.0073	P	2.2

$$y = 0.0015 * x + 8.9970\text{E-}006$$

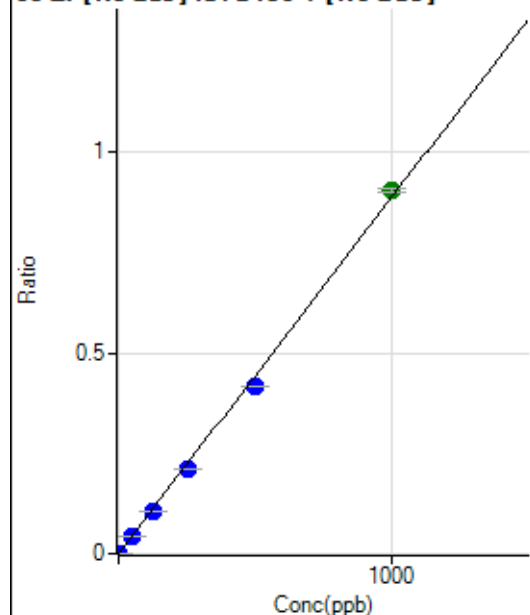
$$R = 0.9998$$

$$DL = 0.01089$$

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	341.68	0.0000	P	10.7
2	☐	1.000	0.866	7946.87	0.0008	P	4.2
3	☐	50.000	47.385	414167.88	0.0421	P	0.6
4	☐	125.000	119.121	945177.33	0.1058	P	1.3
5	☐	250.000	239.330	1868213.50	0.2126	P	0.4
6	☐	500.000	469.557	3690278.56	0.4170	P	0.3
7	☐	1000.000	1018.755	8040510.16	0.9047	A	0.9
8	☐			3158.76	0.0004	P	2.1

$$y = 8.8798E-004 * x + 3.5493E-005$$

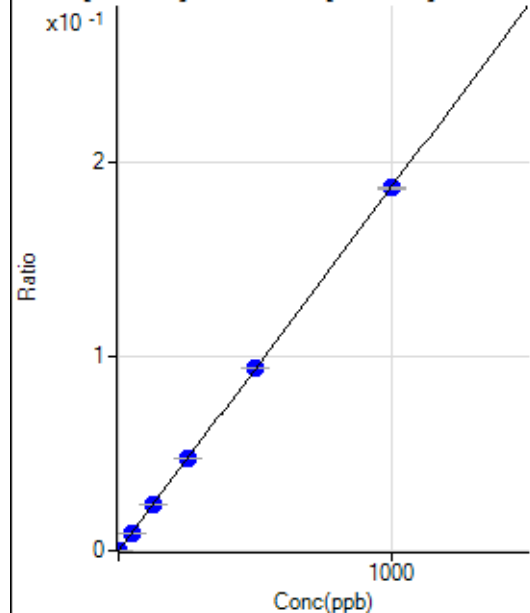
$$R = 0.9993$$

$$DL = 0.01288$$

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	47.22	0.0000	P	43.3
2	☐	1.000	0.872	1658.48	0.0002	P	6.3
3	☐	50.000	49.775	91569.59	0.0093	P	0.7
4	☐	125.000	126.506	211329.11	0.0237	P	0.7
5	☐	250.000	253.502	416601.06	0.0474	P	0.6
6	☐	500.000	502.305	831094.87	0.0939	P	0.7
7	☐	1000.000	997.795	1657937.76	0.1865	P	0.4
8	☐			675.04	0.0001	P	11.1

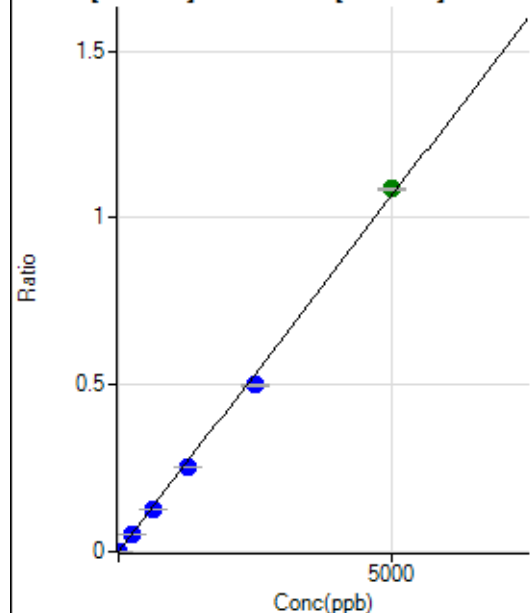
$$y = 1.8696E-004 * x + 4.8870E-006$$

$$R = 1.0000$$

$$DL = 0.03398$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	150.00	0.0000	P	28.6
2	☐	5.000	4.495	9614.56	0.0010	P	2.3
3	☐	250.000	237.762	498651.18	0.0507	P	1.2
4	☐	625.000	594.967	1132997.85	0.1269	P	1.9
5	☐	1250.000	1199.147	2247098.92	0.2557	P	0.4
6	☐	2500.000	2337.815	4410835.26	0.4984	P	0.2
7	☐	5000.000	5098.172	9659542.23	1.0869	A	0.3
8	☐			3342.15	0.0004	P	6.7

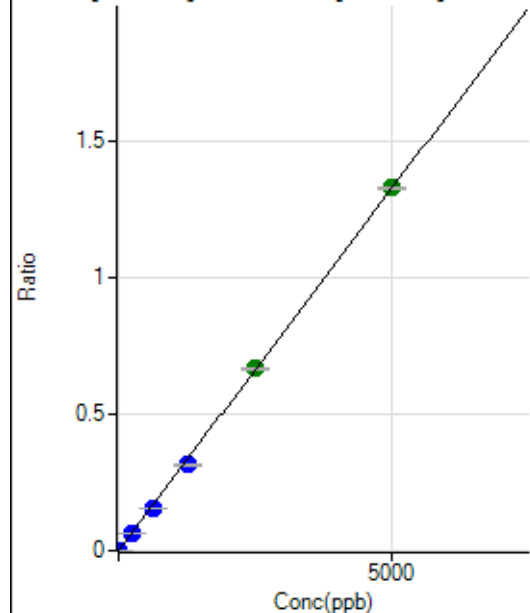
$$y = 2.1319\text{E-}004 * x + 1.5596\text{E-}005$$

$$R = 0.9992$$

$$DL = 0.06272$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.67	0.0000	P	81.1
2	☐	5.000	4.500	11807.95	0.0012	P	2.2
3	☐	250.000	235.060	612220.42	0.0622	P	0.4
4	☐	625.000	587.056	1388561.65	0.1555	P	1.5
5	☐	1250.000	1183.062	2753590.40	0.3133	P	0.2
6	☐	2500.000	2514.154	5891655.51	0.6658	A	0.8
7	☐	5000.000	5015.148	11802604.00	1.3280	A	0.7
8	☐			3964.55	0.0005	P	6.1

$$y = 2.6480\text{E-}004 * x + 4.3693\text{E-}006$$

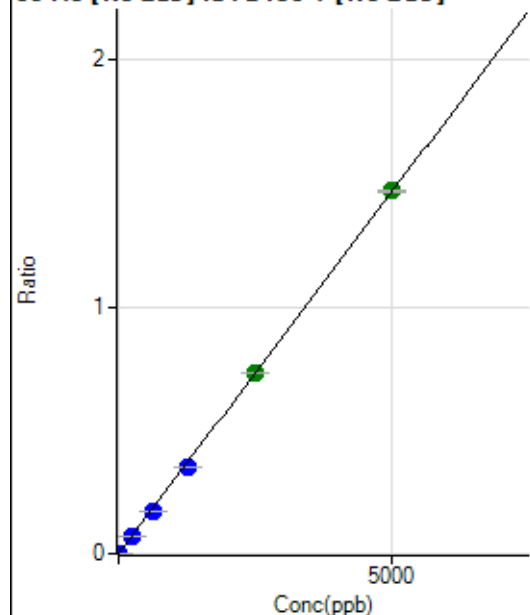
$$R = 0.9999$$

$$DL = 0.04014$$

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	55.56	0.0000	P	29.5
2	☐	5.000	4.463	12967.26	0.0013	P	3.1
3	☐	250.000	236.986	683033.89	0.0694	P	0.6
4	☐	625.000	592.719	1551466.43	0.1737	P	1.3
5	☐	1250.000	1187.926	3059602.85	0.3481	P	0.2
6	☐	2500.000	2502.151	6488825.01	0.7332	A	0.1
7	☐	5000.000	5019.129	13071271.74	1.4708	A	0.4
8	☐			4906.52	0.0006	P	9.8

$$y = 2.9303\text{E-}004 * x + 5.7465\text{E-}006$$

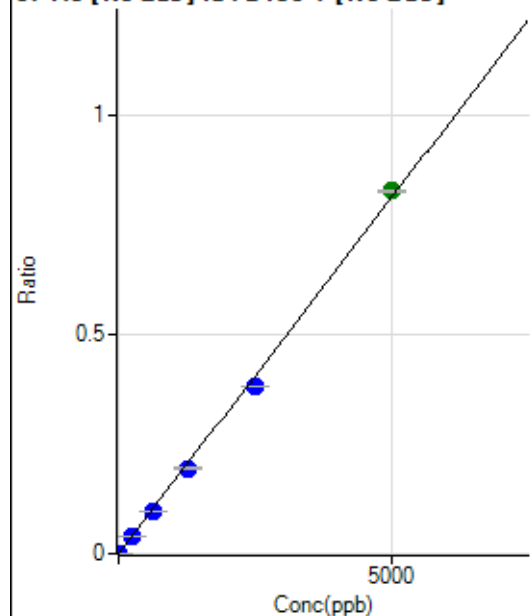
$$R = 0.9999$$

$$DL = 0.01734$$

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	33.33	0.0000	P	73.6
2	☐	5.000	4.484	7238.10	0.0007	P	3.0
3	☐	250.000	240.740	385302.81	0.0392	P	0.2
4	☐	625.000	595.992	866330.41	0.0970	P	1.0
5	☐	1250.000	1201.495	1718403.43	0.1955	P	0.7
6	☐	2500.000	2341.199	3371433.76	0.3810	P	0.3
7	☐	5000.000	5095.617	7369126.64	0.8292	A	0.3
8	☐			2319.69	0.0003	P	2.7

$$y = 1.6272\text{E-}004 * x + 3.4398\text{E-}006$$

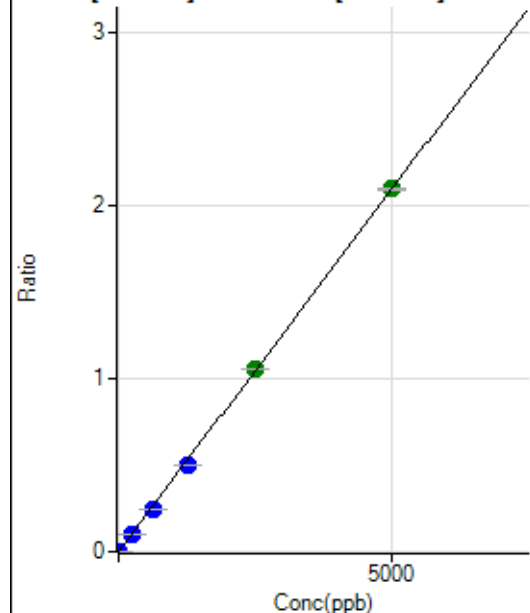
$$R = 0.9992$$

$$DL = 0.0467$$

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	61.11	0.0000	P	41.8
2	☐	5.000	4.418	18348.32	0.0019	P	3.4
3	☐	250.000	238.506	983404.84	0.1000	P	0.8
4	☐	625.000	590.340	2210484.51	0.2475	P	1.8
5	☐	1250.000	1193.555	4397865.77	0.5004	P	0.5
6	☐	2500.000	2520.137	9349664.79	1.0565	A	0.9
7	☐	5000.000	5008.951	18662103.54	2.0998	A	0.4
8	☐			6207.07	0.0007	P	2.1

$$y = 4.1922\text{E-}004 * x + 6.3060\text{E-}006$$

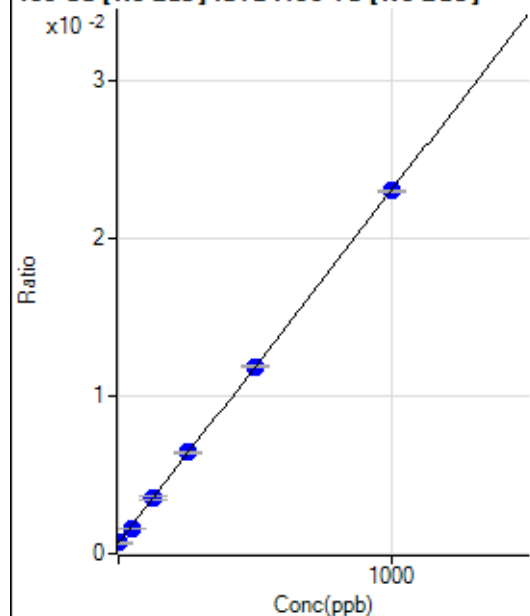
$$R = 0.9999$$

$$DL = 0.01887$$

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	3878.42	0.0007	P	7.5
2	☐	1.000	-0.301	4131.28	0.0007	P	5.7
3	☐	50.000	41.202	10384.58	0.0016	P	0.7
4	☐	125.000	128.575	18476.28	0.0036	P	4.4
5	☐	250.000	256.005	32911.03	0.0064	P	1.3
6	☐	500.000	500.423	61974.28	0.0119	P	1.0
7	☐	1000.000	998.281	121463.22	0.0230	P	0.8
8	☐			3472.74	0.0007	P	8.1

$$y = 2.2369\text{E-}005 * x + 6.7772\text{E-}004$$

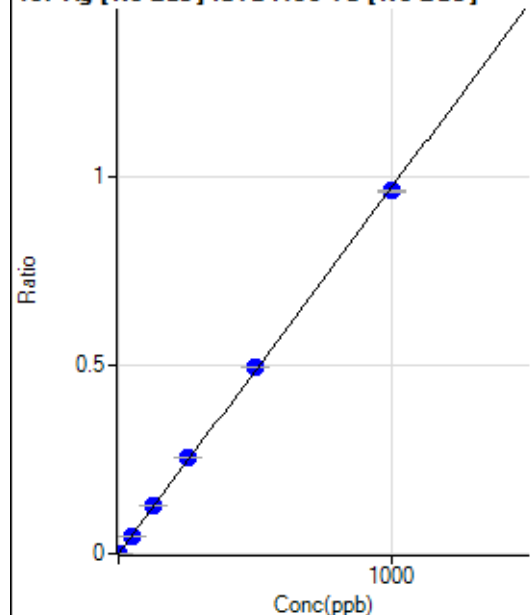
$$R = 0.9999$$

$$DL = 6.831$$

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	52.78	0.0000	P	40.8
2	☐	1.000	0.924	5567.91	0.0009	P	11.0
3	☐	50.000	46.939	296128.66	0.0456	P	0.5
4	☐	125.000	131.812	665685.97	0.1281	P	1.8
5	☐	250.000	263.774	1316839.30	0.2563	P	0.6
6	☐	500.000	509.083	2581702.40	0.4946	P	0.7
7	☐	1000.000	991.316	5083981.58	0.9630	P	0.2
8	☐			2186.34	0.0004	P	8.1

$$y = 9.7145\text{E-}004 * x + 8.9672\text{E-}006$$

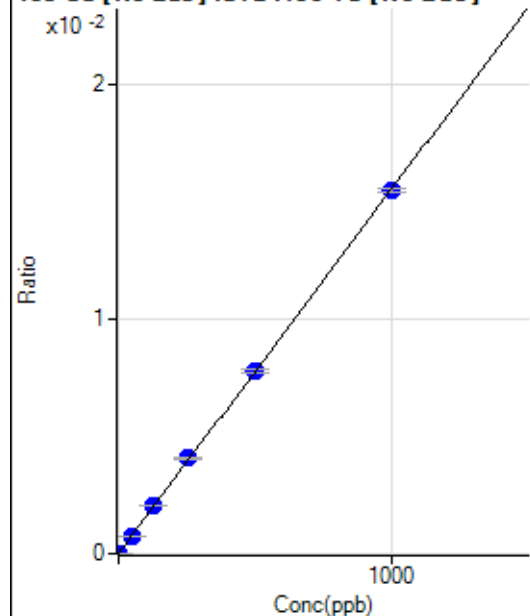
$$R = 0.9998$$

$$DL = 0.01129$$

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	50.0
2	☐	1.000	1.155	150.00	0.0000	P	6.4
3	☐	50.000	47.497	4830.05	0.0007	P	0.2
4	☐	125.000	131.418	10641.59	0.0020	P	1.7
5	☐	250.000	260.906	20850.16	0.0041	P	1.2
6	☐	500.000	502.049	40727.58	0.0078	P	2.1
7	☐	1000.000	995.572	81635.48	0.0155	P	1.1
8	☐			65.28	0.0000	P	19.7

$$y = 1.5526\text{E-}005 * x + 6.4400\text{E-}006$$

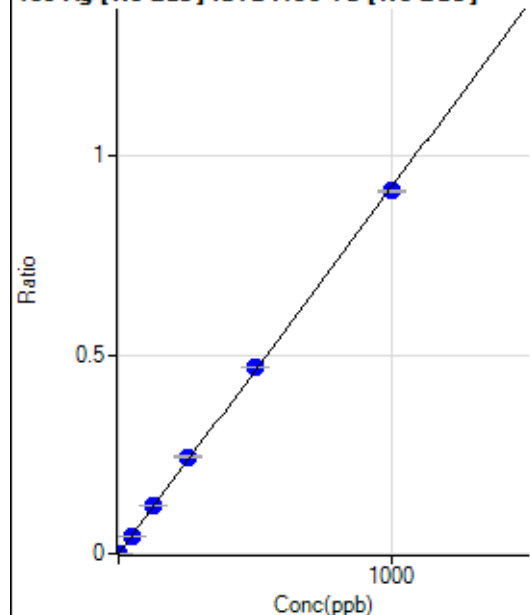
$$R = 0.9999$$

$$DL = 0.6223$$

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	11.11	0.0000	P	86.6
2	☐	1.000	0.919	5214.97	0.0008	P	10.5
3	☐	50.000	46.944	280777.90	0.0432	P	0.3
4	☐	125.000	132.384	633915.85	0.1219	P	1.6
5	☐	250.000	264.700	1252991.08	0.2438	P	0.4
6	☐	500.000	510.239	2453558.34	0.4700	P	0.4
7	☐	1000.000	990.435	4816266.69	0.9123	P	0.9
8	☐			1969.63	0.0004	P	2.0

$$y = 9.2114\text{E-}004 * x + 2.0455\text{E-}006$$

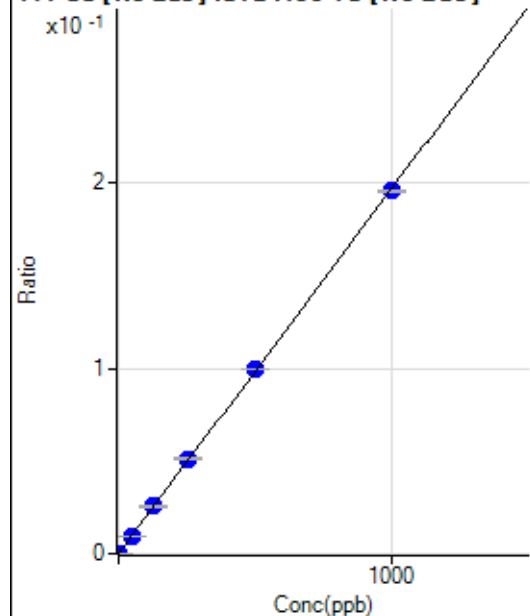
$$R = 0.9998$$

$$DL = 0.00577$$

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	385.07	0.0001	P	6.8
2	☐	1.000	0.973	1588.20	0.0003	P	11.0
3	☐	50.000	45.507	58554.83	0.0090	P	0.3
4	☐	125.000	129.388	132640.93	0.0255	P	1.8
5	☐	250.000	260.569	263725.42	0.0513	P	0.4
6	☐	500.000	504.698	518588.28	0.0993	P	0.1
7	☐	1000.000	994.685	1033213.37	0.1957	P	0.6
8	☐			803.54	0.0002	P	10.3

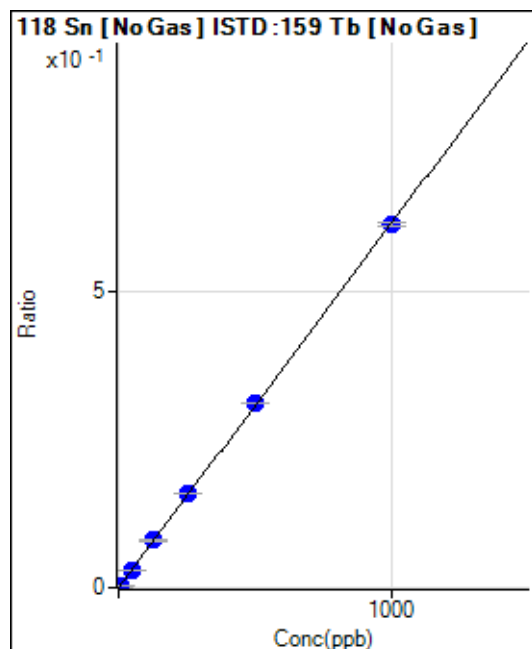
$$y = 1.9670\text{E-}004 * x + 6.7293\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.07021$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	291.68	0.0001	P	28.5
2	☐	5.000	4.573	17569.72	0.0029	P	8.3
3	☐	50.000	45.642	182251.52	0.0281	P	0.4
4	☐	125.000	129.407	413231.65	0.0795	P	1.1
5	☐	250.000	257.323	812010.95	0.1580	P	0.1
6	☐	500.000	505.021	1618669.43	0.3101	P	0.2
7	☐	1000.000	995.328	3225845.56	0.6111	P	1.0
8	☐			1772.38	0.0004	P	5.5

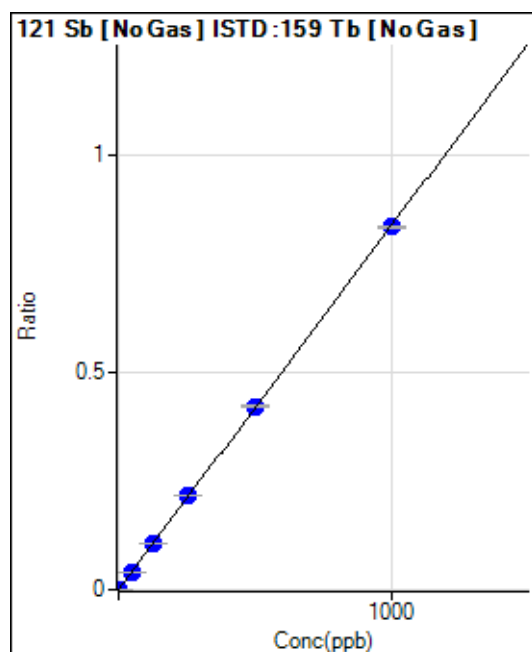
$$y = 6.1387\text{E-}004 * x + 5.1458\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.07178$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	58.34	0.0000	P	8.9
2	☐	2.000	1.741	9036.47	0.0015	P	9.4
3	☐	50.000	45.150	245946.32	0.0379	P	0.5
4	☐	125.000	127.918	557768.92	0.1073	P	1.6
5	☐	250.000	257.645	1110541.77	0.2161	P	1.1
6	☐	500.000	503.691	2205501.74	0.4225	P	0.2
7	☐	1000.000	996.121	4410753.22	0.8355	P	0.2
8	☐			3214.36	0.0006	P	7.2

$$y = 8.3874\text{E-}004 * x + 1.0218\text{E-}005$$

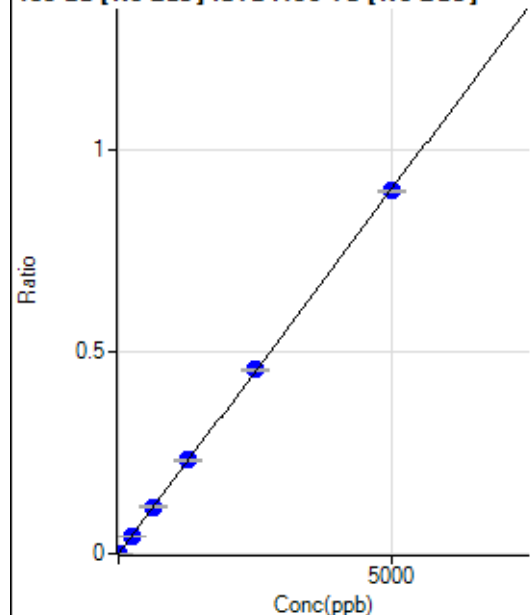
$$R = 0.9999$$

$$DL = 0.003242$$

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	13.89	0.0000	P	73.2
2	☐	10.000	9.155	10159.49	0.0017	P	6.5
3	☐	250.000	225.221	263326.14	0.0406	P	0.8
4	☐	625.000	644.639	603385.52	0.1161	P	2.1
5	☐	1250.000	1284.225	1188349.61	0.2312	P	0.8
6	☐	2500.000	2522.061	2370858.73	0.4541	P	0.6
7	☐	5000.000	4979.199	4733208.48	0.8966	P	0.6
8	☐			1439.01	0.0003	P	5.7

$$y = 1.8007E-004 * x + 2.4714E-006$$

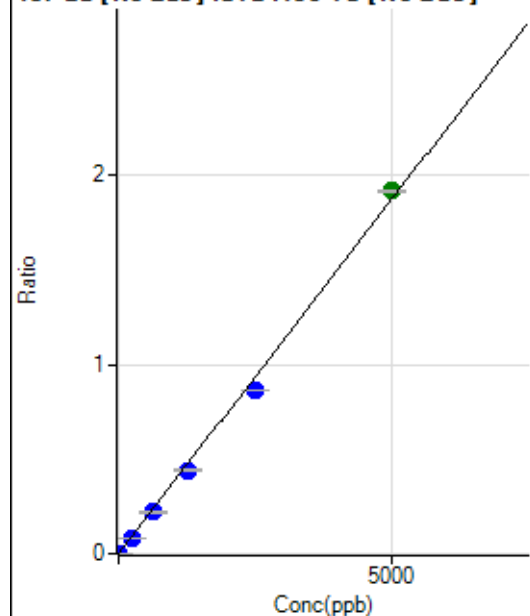
$$R = 0.9999$$

$$DL = 0.03012$$

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	25.00	0.0000	P	79.9
2	☐	10.000	8.293	19106.71	0.0031	P	8.1
3	☐	250.000	206.623	502074.51	0.0773	P	0.6
4	☐	625.000	585.819	1139662.33	0.2192	P	2.0
5	☐	1250.000	1176.042	2261642.21	0.4401	P	1.1
6	☐	2500.000	2303.886	4500941.54	0.8622	P	0.3
7	☐	5000.000	5123.616	10122088.60	1.9174	A	0.8
8	☐			2763.09	0.0005	P	10.7

$$y = 3.7422E-004 * x + 4.4954E-006$$

$$R = 0.9988$$

$$DL = 0.02878$$

Weight: <None>

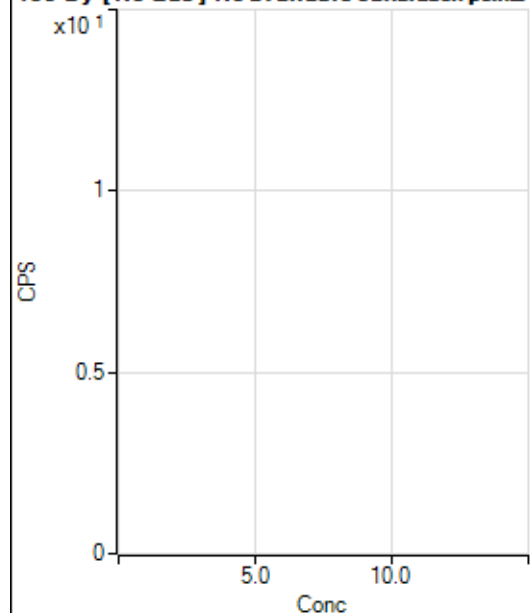
Min Conc: 0

150 Nd [No Gas] No available calibration points

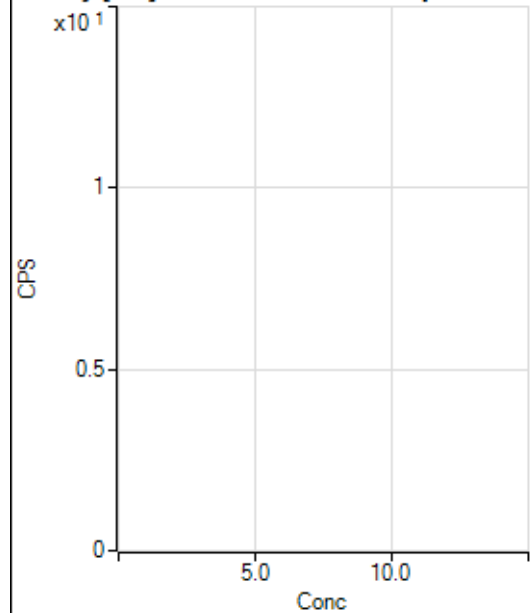
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			6.67		P	100.
3	☐			28.89		P	35.2
4	☐			53.33		P	37.5
5	☐			102.23		P	27.2
6	☐			164.45		P	10.2
7	☐			420.02		P	9.9
8	☐			28.89		P	13.3

150 Nd [He] No available calibration points

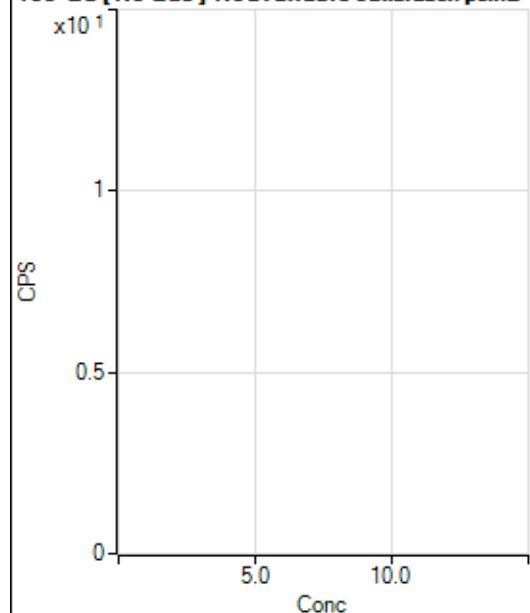
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			2.22		P	173.
3	☐			3.33		P	100.
4	☐			13.33		P	66.2
5	☐			32.22		P	21.5
6	☐			67.78		P	10.2
7	☐			115.56		P	15.9
8	☐			5.55		P	124.

156 Dy [No Gas] No available calibration points

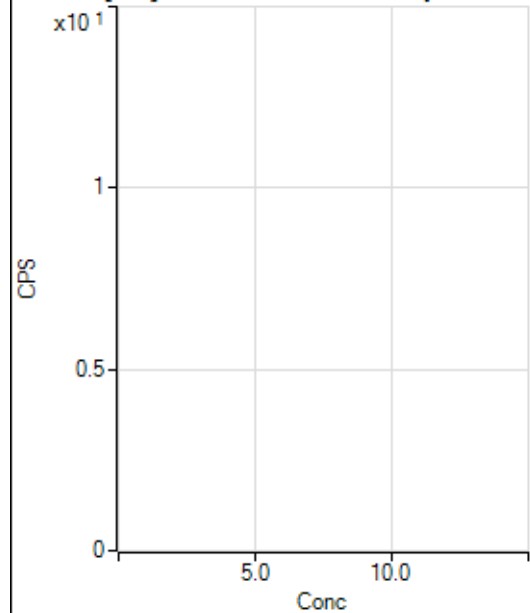
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	0.0
2	☐			5.56		P	173.
3	☐			16.67		P	50.0
4	☐			41.67		P	20.0
5	☐			52.78		P	18.2
6	☐			130.56		P	3.7
7	☐			194.45		P	13.8
8	☐			958.39		P	7.6

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			11.11		P	17.3
3	☐			4.44		P	43.4
4	☐			14.44		P	13.4
5	☐			30.00		P	38.5
6	☐			62.22		P	18.8
7	☐			127.78		P	31.9
8	☐			688.91		P	5.3

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

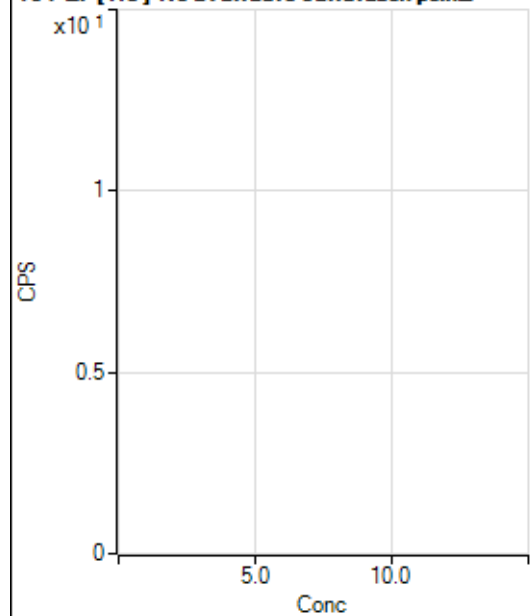
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.55		P	68.6
2	☐			50.00		P	44.1
3	☐			44.44		P	60.3
4	☐			41.67		P	69.3
5	☐			77.78		P	12.4
6	☐			119.45		P	8.1
7	☐			150.01		P	33.8
8	☐			1166.75		P	13.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			40.00		P	8.3
2	☐			38.89		P	34.6
3	☐			47.78		P	24.5
4	☐			37.78		P	18.4
5	☐			67.78		P	39.8
6	☐			93.33		P	25.0
7	☐			153.34		P	5.7
8	☐			804.48		P	3.4

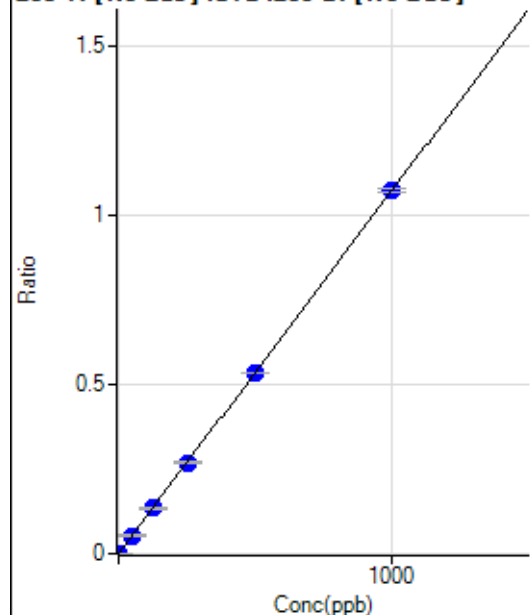
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.00		P	33.3
2	☐			25.00		P	57.7
3	☐			19.44		P	49.5
4	☐			22.22		P	21.6
5	☐			38.89		P	32.7
6	☐			63.89		P	7.5
7	☐			83.34		P	10.0
8	☐			138.89		P	21.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	20.0
2	☐			20.00		P	60.1
3	☐			24.45		P	15.8
4	☐			30.00		P	29.4
5	☐			20.00		P	33.4
6	☐			30.00		P	11.1
7	☐			62.22		P	17.2
8	☐			100.00		P	8.8

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	583.37	0.0002	P	11.2
2	☐	1.000	0.924	3900.68	0.0012	P	4.5
3	☐	50.000	49.975	180495.72	0.0538	P	1.1
4	☐	125.000	124.579	415291.66	0.1338	P	2.1
5	☐	250.000	251.194	830213.94	0.2696	P	0.5
6	☐	500.000	498.636	1652924.47	0.5350	P	0.4
7	☐	1000.000	1000.437	3313387.49	1.0731	P	1.0
8	☐			1500.13	0.0005	P	14.7

$$y = 0.0011 * x + 1.7702E-004$$

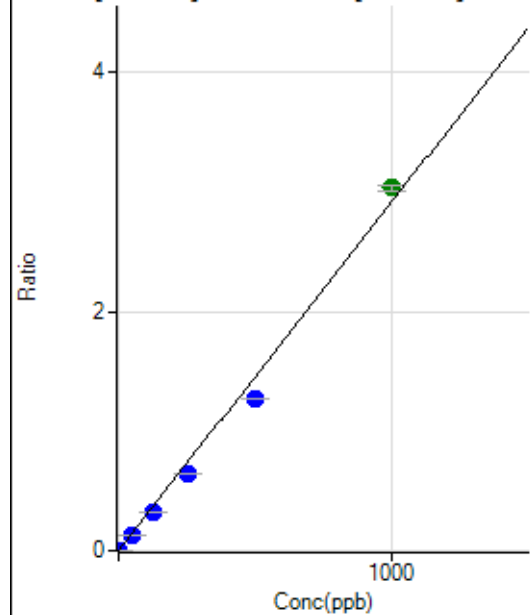
$$R = 1.0000$$

$$DL = 0.05553$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1297.33	0.0004	P	7.5
2	☐	1.000	0.783	8931.04	0.0027	P	2.2
3	☐	50.000	44.191	433333.40	0.1291	P	0.2
4	☐	125.000	108.866	985454.87	0.3175	P	1.9
5	☐	250.000	219.476	1969737.76	0.6396	P	1.1
6	☐	500.000	437.494	3938163.15	1.2746	P	0.0
7	☐	1000.000	1041.192	9364293.96	3.0328	A	1.3
8	☐			3500.58	0.0012	P	14.5

$$y = 0.0029 * x + 3.9368E-004$$

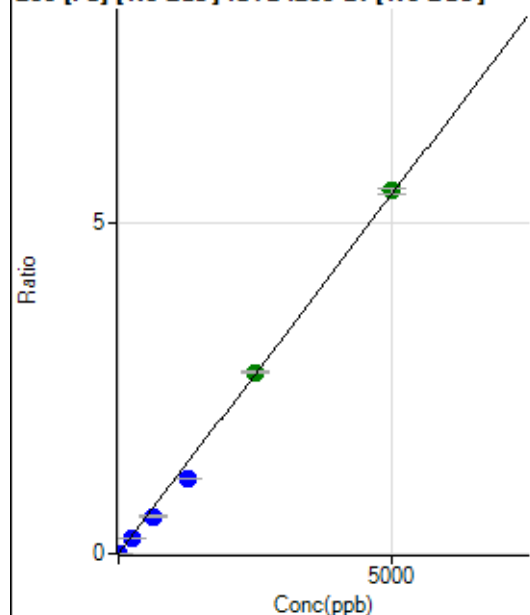
$$R = 0.9967$$

$$DL = 0.03036$$

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	392.60	0.0001	P	13.7
2	☐	1.000	0.756	3146.72	0.0009	P	1.8
3	☐	250.000	211.655	773289.44	0.2304	P	0.7
4	☐	625.000	521.214	1760743.40	0.5671	P	1.5
5	☐	1250.000	1048.385	3512856.44	1.1407	P	0.8
6	☐	2500.000	2525.643	8490340.23	2.7478	A	0.5
7	☐	5000.000	5052.473	16971890.77	5.4967	A	1.9
8	☐			17697.17	0.0062	P	2.5

$$y = 0.0011 * x + 1.1932E-004$$

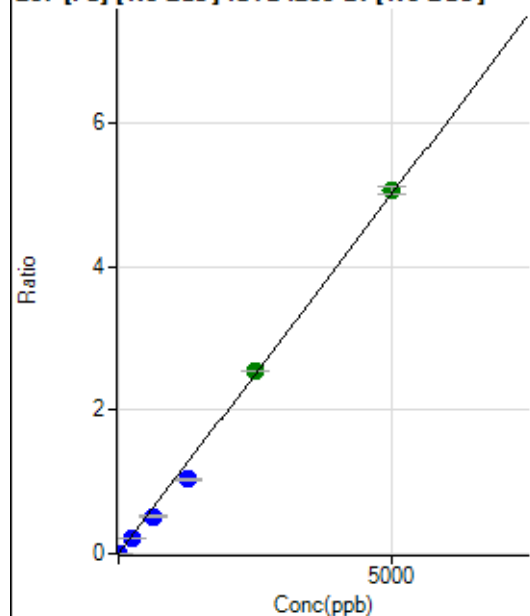
$$R = 0.9990$$

$$DL = 0.04493$$

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	370.38	0.0001	P	15.3
2	☐	1.000	0.714	2763.30	0.0008	P	4.7
3	☐	250.000	208.288	700486.66	0.2087	P	0.7
4	☐	625.000	518.584	1612499.66	0.5194	P	1.4
5	☐	1250.000	1032.150	3183415.78	1.0337	P	0.8
6	☐	2500.000	2539.583	7858211.29	2.5432	A	0.6
7	☐	5000.000	5050.059	15614789.81	5.0571	A	2.0
8	☐			16284.29	0.0057	P	1.5

$$y = 0.0010 * x + 1.1260E-004$$

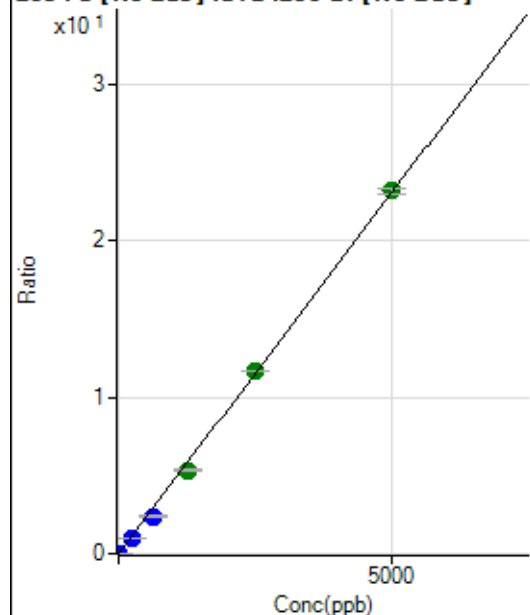
$$R = 0.9989$$

$$DL = 0.05164$$

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	1716.74	0.0005	P	13.0
2	☐	1.000	0.839	14682.41	0.0044	P	1.4
3	☐	250.000	209.215	3244225.80	0.9665	P	0.8
4	☐	625.000	518.401	7432595.47	2.3941	P	1.3
5	☐	1250.000	1154.323	16415684.41	5.3303	A	0.9
6	☐	2500.000	2524.546	36018913.92	11.6570	A	0.4
7	☐	5000.000	5027.010	71669586.03	23.2116	A	1.7
8	☐			73061.51	0.0258	P	1.4

$$y = 0.0046 * x + 5.2175E-004$$

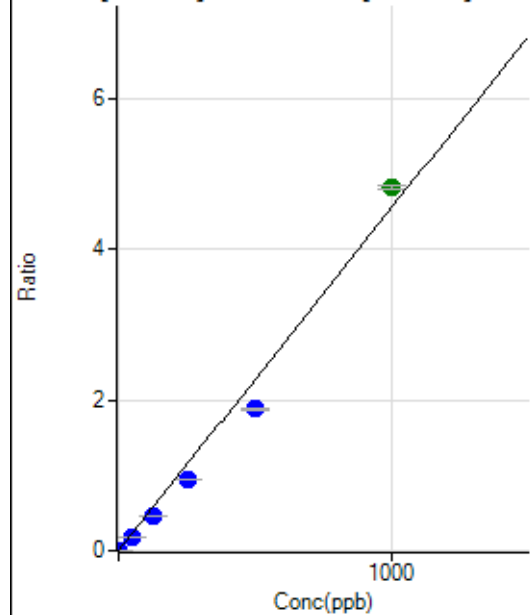
$$R = 0.9996$$

$$DL = 0.04402$$

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	203.71	0.0001	P	8.6
2	☐	1.000	0.005	285.20	0.0001	P	13.5
3	☐	50.000	40.397	617969.70	0.1841	P	1.2
4	☐	125.000	100.610	1423237.37	0.4584	P	1.7
5	☐	250.000	206.490	2897407.39	0.9408	P	0.8
6	☐	500.000	412.529	5807340.64	1.8795	P	0.3
7	☐	1000.000	1058.143	14885011.10	4.8209	A	1.0
8	☐			2883.71	0.0010	P	7.7

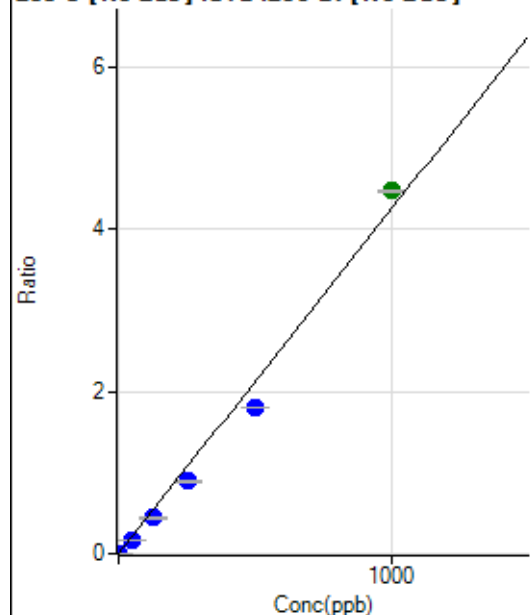
$$y = 0.0046 * x + 6.1818E-005$$

$$R = 0.9938$$

$$DL = 0.00351$$

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	33.34	0.0000	P	42.3
2	☐	1.000	0.788	11230.13	0.0034	P	1.2
3	☐	50.000	41.266	588941.62	0.1755	P	1.3
4	☐	125.000	103.573	1367210.38	0.4404	P	1.3
5	☐	250.000	210.129	2751510.80	0.8934	P	1.1
6	☐	500.000	422.150	5545978.86	1.7949	P	0.3
7	☐	1000.000	1052.008	13810941.45	4.4730	A	0.8
8	☐			2300.27	0.0008	P	4.5

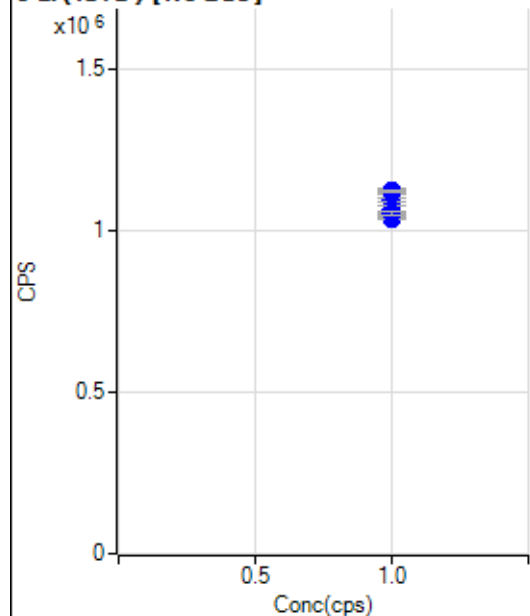
$$y = 0.0043 * x + 1.0073E-005$$

$$R = 0.9949$$

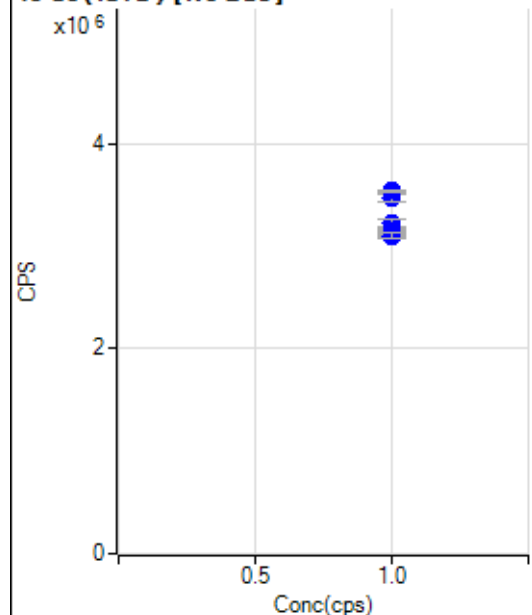
$$DL = 0.00301$$

Weight: <None>

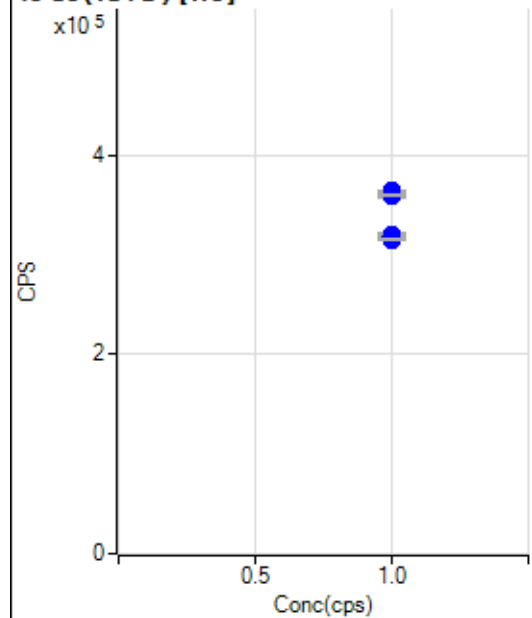
Min Conc: 0

6 Li (ISTD) [No Gas]

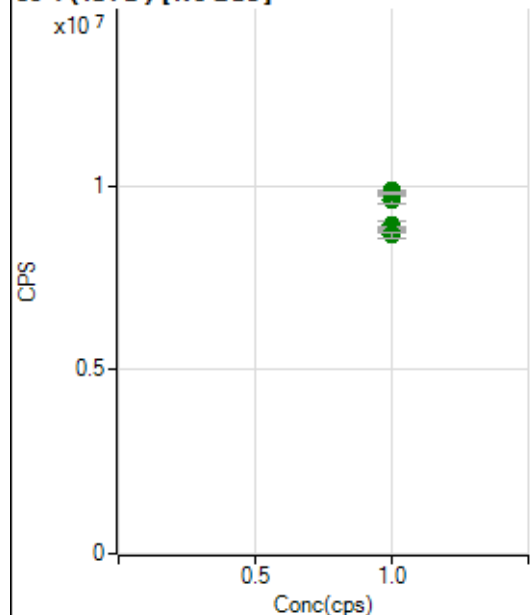
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		1095385.45		P	1.0
2	☐	1.000		1120949.72		P	1.9
3	☐	1.000		1122762.06		P	0.3
4	☐	1.000		1066075.10		P	2.3
5	☐	1.000		1047209.92		P	0.1
6	☐	1.000		1048841.95		P	0.8
7	☐	1.000		1036066.78		P	0.6
8	☐	1.000		1053697.44		P	0.8

45 Sc (ISTD) [No Gas]

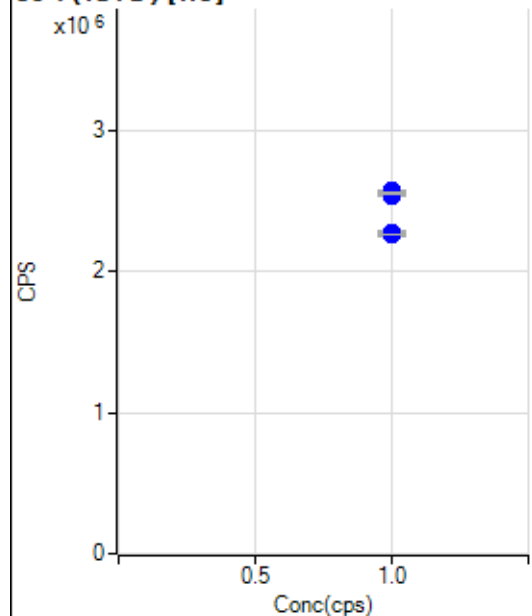
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3478707.97		P	2.1
2	☐	1.000		3542519.91		P	0.7
3	☐	1.000		3541919.11		P	0.2
4	☐	1.000		3231383.35		P	2.5
5	☐	1.000		3160043.56		P	0.4
6	☐	1.000		3145510.13		P	0.7
7	☐	1.000		3109866.06		P	0.8
8	☐	1.000		3106003.43		P	1.5

45 Sc (ISTD) [He]

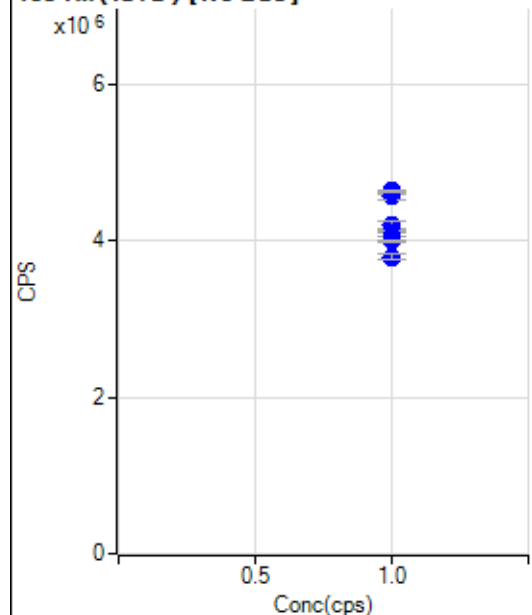
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		359444.12		P	1.0
2	☐	1.000		363992.82		P	0.7
3	☐	1.000		360265.22		P	0.5
4	☐	1.000		320202.72		P	0.7
5	☐	1.000		318405.84		P	1.2
6	☐	1.000		314724.73		P	0.7
7	☐	1.000		314985.08		P	0.4
8	☐	1.000		316100.56		P	0.5

89 Y (ISTD) [No Gas]

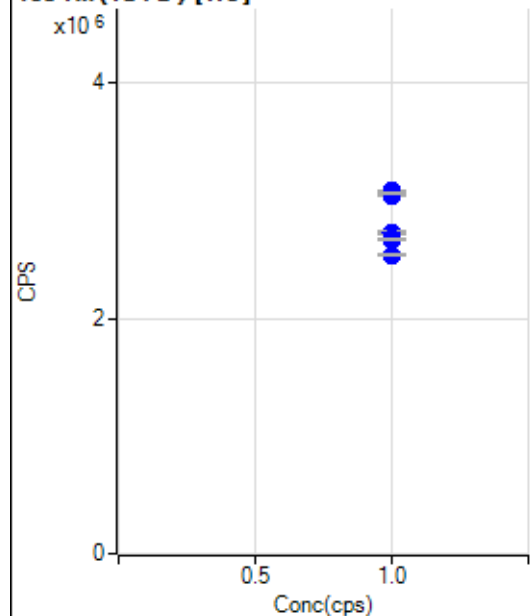
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9640106.10		A	2.0
2	☐	1.000		9873507.14		A	0.4
3	☐	1.000		9835088.88		A	0.5
4	☐	1.000		8934338.06		A	2.6
5	☐	1.000		8789392.09		A	0.5
6	☐	1.000		8849882.92		A	0.8
7	☐	1.000		8887584.04		A	0.7
8	☐	1.000		8666338.62		A	1.4

89 Y (ISTD) [He]

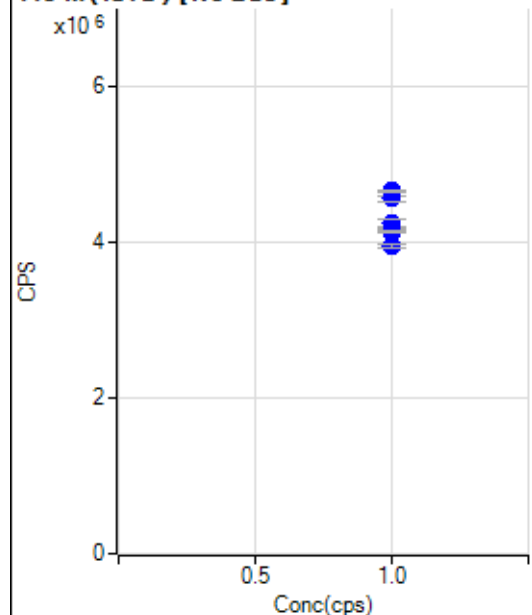
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2531837.05		P	0.2
2	☐	1.000		2571256.94		P	0.1
3	☐	1.000		2561164.72		P	0.6
4	☐	1.000		2272858.82		P	0.9
5	☐	1.000		2278429.12		P	0.7
6	☐	1.000		2259430.92		P	0.6
7	☐	1.000		2276626.81		P	0.5
8	☐	1.000		2261095.68		P	0.5

103 Rh (ISTD) [No Gas]

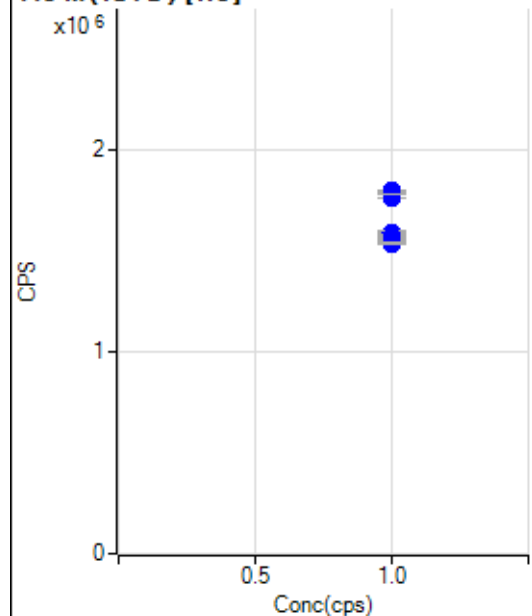
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4560908.62		P	1.9
2	☐	1.000		4635792.88		P	0.4
3	☐	1.000		4627105.97		P	0.4
4	☐	1.000		4204236.67		P	2.1
5	☐	1.000		4108099.42		P	0.5
6	☐	1.000		4051680.22		P	0.5
7	☐	1.000		3997214.77		P	0.6
8	☐	1.000		3794047.27		P	1.5

103 Rh (ISTD) [He]

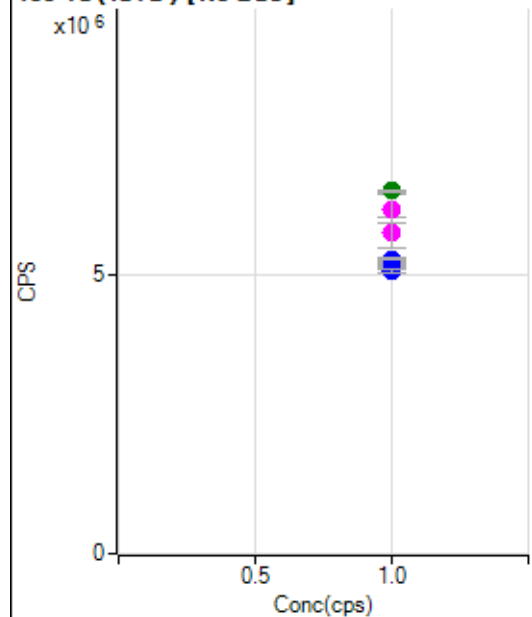
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3038309.40		P	0.2
2	☐	1.000		3084606.17		P	0.5
3	☐	1.000		3071321.27		P	0.5
4	☐	1.000		2728576.45		P	0.6
5	☐	1.000		2726097.93		P	1.2
6	☐	1.000		2681056.52		P	0.5
7	☐	1.000		2672200.70		P	0.3
8	☐	1.000		2542246.28		P	0.6

115 In (ISTD) [No Gas]

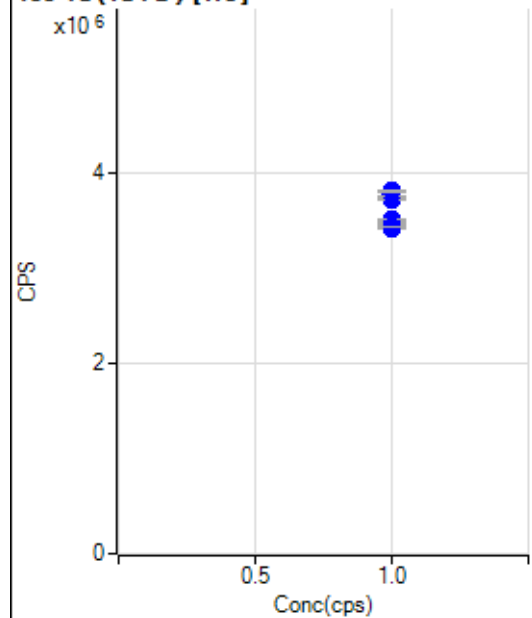
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4570335.72		P	1.7
2	☐	1.000		4658817.04		P	0.5
3	☐	1.000		4664748.39		P	0.2
4	☐	1.000		4243337.80		P	2.4
5	☐	1.000		4190798.29		P	0.6
6	☐	1.000		4156227.22		P	0.4
7	☐	1.000		4140407.96		P	0.3
8	☐	1.000		3966917.07		P	1.2

115 In (ISTD) [He]

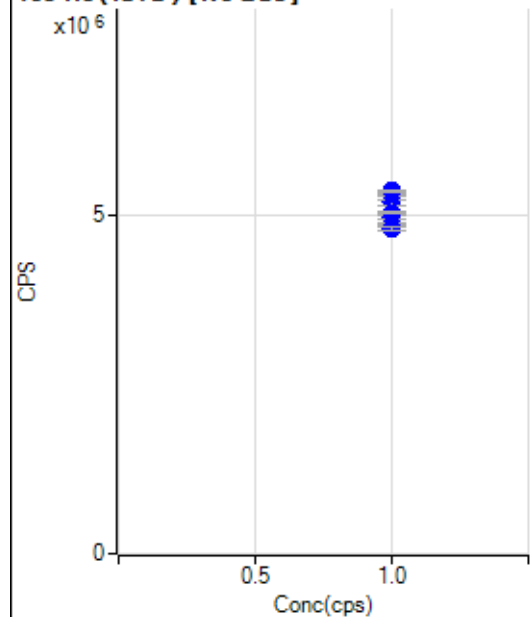
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1763769.56		P	0.4
2	☐	1.000		1798893.14		P	0.3
3	☐	1.000		1783475.71		P	0.4
4	☐	1.000		1585479.51		P	0.9
5	☐	1.000		1590218.88		P	1.0
6	☐	1.000		1568726.55		P	0.2
7	☐	1.000		1554466.87		P	0.0
8	☐	1.000		1539324.97		P	0.6

159 Tb (ISTD) [No Gas]

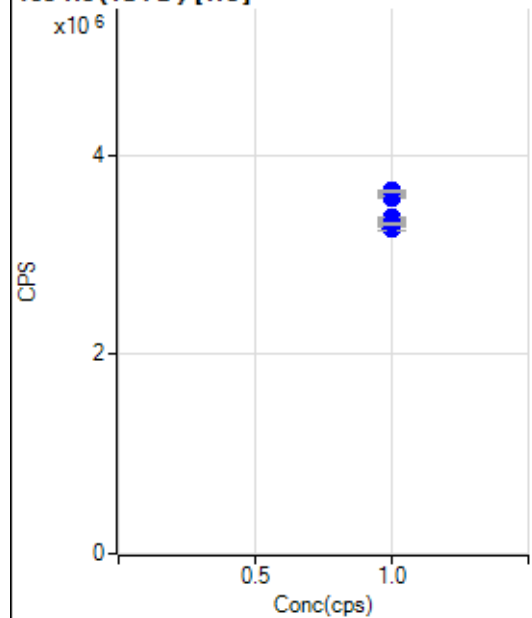
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5740941.30		M	9.3
2	☐	1.000		6175539.49		M	8.4
3	☐	1.000		6492880.53		A	0.4
4	☐	1.000		5199273.64		P	2.0
5	☐	1.000		5138822.80		P	0.2
6	☐	1.000		5220403.70		P	0.9
7	☐	1.000		5279198.91		P	0.4
8	☐	1.000		5050391.63		P	1.3

159 Tb (ISTD) [He]

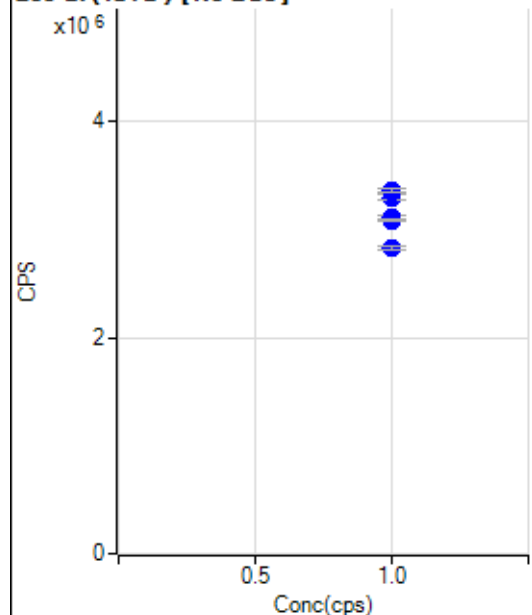
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3716768.59		P	0.5
2	☐	1.000		3774277.03		P	0.7
3	☐	1.000		3805631.16		P	0.8
4	☐	1.000		3417889.98		P	0.8
5	☐	1.000		3465436.03		P	0.9
6	☐	1.000		3480668.87		P	0.5
7	☐	1.000		3509626.09		P	0.4
8	☐	1.000		3434437.80		P	0.3

165 Ho (ISTD) [No Gas]

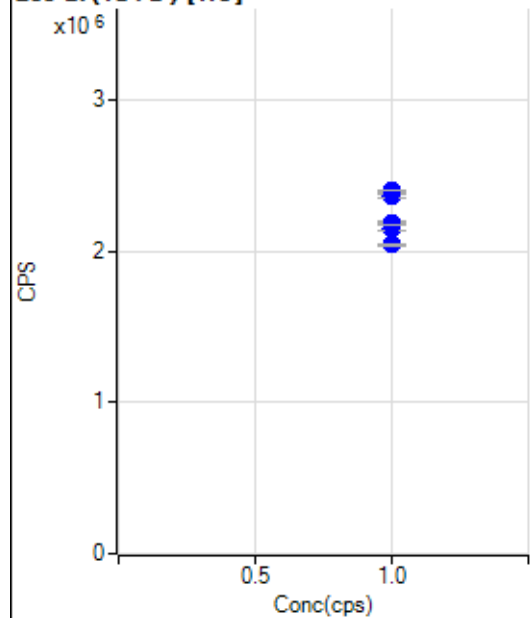
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5179424.06		P	1.7
2	☐	1.000		5288776.17		P	0.8
3	☐	1.000		5348249.99		P	0.4
4	☐	1.000		4927914.79		P	2.3
5	☐	1.000		4859677.50		P	0.4
6	☐	1.000		4971239.93		P	1.0
7	☐	1.000		5028202.80		P	0.3
8	☐	1.000		4803563.58		P	1.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3572247.00		P	0.7
2	☐	1.000		3600355.15		P	0.5
3	☐	1.000		3636994.77		P	0.6
4	☐	1.000		3252854.12		P	1.4
5	☐	1.000		3317410.71		P	1.3
6	☐	1.000		3340706.30		P	0.3
7	☐	1.000		3376390.30		P	0.1
8	☐	1.000		3310584.99		P	0.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3295431.79		P	1.8
2	☐	1.000		3339644.08		P	0.7
3	☐	1.000		3356737.45		P	0.9
4	☐	1.000		3105041.10		P	2.1
5	☐	1.000		3079741.31		P	0.4
6	☐	1.000		3089841.83		P	0.6
7	☐	1.000		3087678.01		P	0.4
8	☐	1.000		2833978.19		P	1.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2366122.24		P	0.8
2	☐	1.000		2386006.20		P	0.3
3	☐	1.000		2400142.81		P	0.1
4	☐	1.000		2156114.29		P	1.6
5	☐	1.000		2177054.74		P	0.5
6	☐	1.000		2192317.81		P	0.5
7	☐	1.000		2175396.82		P	0.2
8	☐	1.000		2044526.86		P	0.8

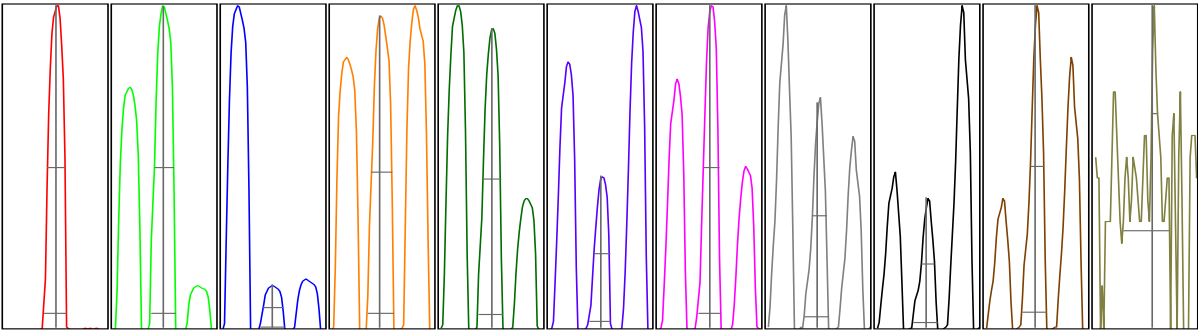
US EPA Tune Check Sample Report

Batch Folder C:\Agilent\ICPMH\1\DATA\P7010721M.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]				
Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	2963	0.74	5.00	
24	40842	0.57	5.00	
25	5488	0.74	5.00	
26	6429	1.18	5.00	
59	7591	0.56	5.00	
113	3862	0.62	5.00	
115	10590	0.67	5.00	
206	4004	0.53	5.00	
207	3352	0.23	5.00	
208	8314	0.48	5.00	
220	0	25.65		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	2974	2943	2995	2957	2944
24	41007	41093	40906	40639	40564
25	5451	5489	5467	5474	5556
26	6479	6439	6520	6334	6373
59	7625	7607	7628	7532	7562
113	3855	3904	3855	3855	3842
115	10547	10703	10519	10602	10580
206	4035	3997	4015	3989	3983
207	3359	3353	3358	3351	3340
208	8289	8379	8327	8283	8291
220	0	1	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	5768	9.05	8.9 - 9.1		0.680	0.900	
24	71670	24.00	23.9 - 24.1		0.738	0.900	
25	9596	25.00	24.9 - 25.1		0.726	0.900	
26	11154	25.95	25.9 - 26.1		0.770	0.900	
59	14825	59.05	58.9 - 59.1		0.727	0.900	
113	8469	113.05	112.9 - 113.1		0.640	0.900	
115	23306	115.05	114.9 - 115.1		0.684	0.900	
206	9488	206.00	205.9 - 206.1		0.699	0.900	
207	8090	207.00	206.9 - 207.1		0.717	0.900	
208	20052	208.00	207.9 - 208.1		0.713	0.900	
220	1	220.25	-		1.340		

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 256.8 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.62	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		0.40 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	11.2	V	Deflect	13.6	V
Extract 2	-185.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-75	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	190	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	3211	0.83	
89	157873	0.45	
205	3695	1.09	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	3199	3173	3232	3240	3211
89	157059	157869	158965	157966	157506
205	3665	3639	3723	3716	3731

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.62	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		0.40 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.9	V	Deflect	2.0	V
Extract 2	-180.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-90	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	3.9	mL/min	OctP RF	200	V			