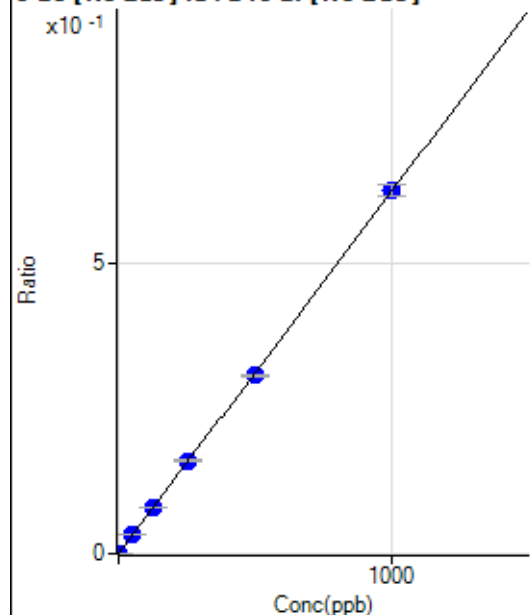


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7092521-MS.b\
Analysis File: P7092521-MS.batch.bin
DA Date-Time: 2021-09-25 23:26:05
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-09-25 14:16:31
2	005CAL.S.d	S02	2021-09-25 14:22:43
3	006CAL.S.d	S03	2021-09-25 14:25:50
4	007CAL.S.d	S04	2021-09-25 14:28:59
5	008CAL.S.d	S05	2021-09-25 14:32:10
6	010CAL.S.d	S06	2021-09-25 14:38:08
7	011CAL.S.d	S07	2021-09-25 14:41:08
8	012CAL.S.d	S08	2021-09-25 14:44:04

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	74.07	0.0000	P	48.6
2	☐	1.000	1.006	1542.70	0.0007	P	6.1
3	☐	50.000	51.407	80820.90	0.0320	P	0.5
4	☐	125.000	129.084	197414.12	0.0803	P	0.8
5	☐	250.000	256.664	380667.62	0.1596	P	1.6
6	☐	500.000	491.469	700990.00	0.3055	P	1.8
7	☐	1000.000	1002.019	1338392.91	0.6228	P	3.3
8	☐			292.60	0.0001	P	18.4

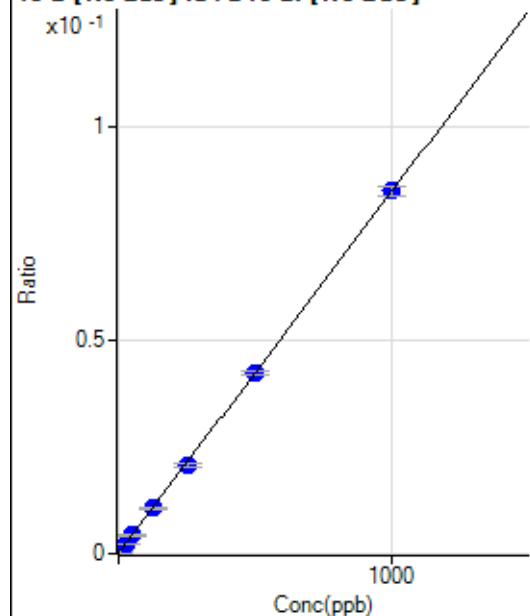
$$y = 6.2156\text{E-}004 * x + 3.2053\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.07516$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	450.02	0.0002	P	23.3
2	☐	25.000	25.796	5595.63	0.0024	P	3.5
3	☐	50.000	48.586	10868.02	0.0043	P	3.2
4	☐	125.000	123.713	26173.09	0.0106	P	1.7
5	☐	250.000	242.588	49314.31	0.0207	P	3.8
6	☐	500.000	497.983	96872.68	0.0422	P	2.8
7	☐	1000.000	1003.073	182464.38	0.0848	P	2.8
8	☐			6637.72	0.0032	P	6.0

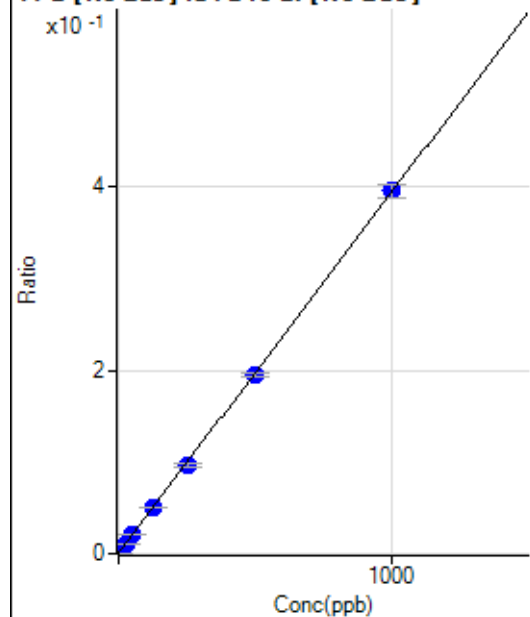
$$y = 8.4382\text{E-}005 * x + 2.0162\text{E-}004$$

$$R = 1.0000$$

$$DL = 1.673$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1966.85	0.0009	P	16.1
2	☐	25.000	26.138	26201.21	0.0111	P	3.1
3	☐	50.000	49.874	51668.99	0.0204	P	3.2
4	☐	125.000	125.606	123455.46	0.0502	P	1.6
5	☐	250.000	244.484	231125.99	0.0969	P	3.7
6	☐	500.000	494.219	447332.41	0.1950	P	2.8
7	☐	1000.000	1004.172	850146.26	0.3953	P	3.5
8	☐			30987.82	0.0149	P	7.1

$$y = 3.9276E-004 * x + 8.6123E-004$$

$$R = 1.0000$$

$$DL = 1.06$$

Weight: <None>

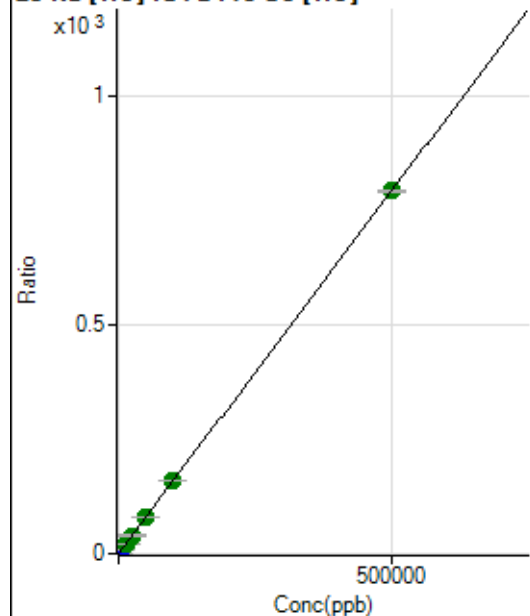
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	14412.87	0.0446	P	4.1
2	☐	500.000	494.007	281147.31	0.8281	P	1.5
3	☐	5000.000	5112.031	2494802.09	8.1522	P	0.7
4	☐	12500.000	12668.558	5968689.29	20.1367	A	0.5
5	☐	25000.000	25077.378	11697254.86	39.8169	A	0.7
6	☐	50000.000	49373.658	21673940.42	78.3505	A	1.3
7	☐	100000.00	99651.568	41334531.83	158.0906	A	0.2
8	☐	500000.00	500123.12	209443626.9	793.2331	A	0.2

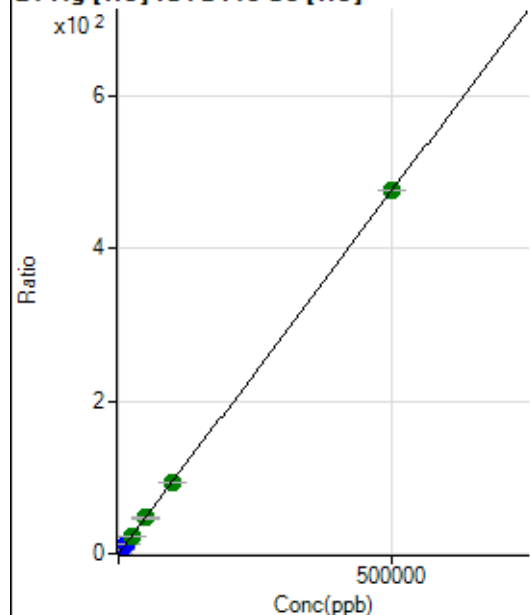
$$y = 0.0016 * x + 0.0446$$

$$R = 1.0000$$

$$DL = 3.449$$

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	363.90	0.0011	P	18.1
2	☐	500.000	489.998	158504.34	0.4671	P	2.3
3	☐	5000.000	5071.440	1476218.50	4.8237	P	0.5
4	☐	12500.000	12755.324	3595449.21	12.1306	P	0.5
5	☐	25000.000	25022.505	6990686.62	23.7959	A	1.1
6	☐	50000.000	49364.232	12985626.33	46.9434	A	1.6
7	☐	100000.00	98625.744	24521948.29	93.7879	A	0.2
8	☐	500000.00	500330.21	125624170.8	475.7832	A	0.1

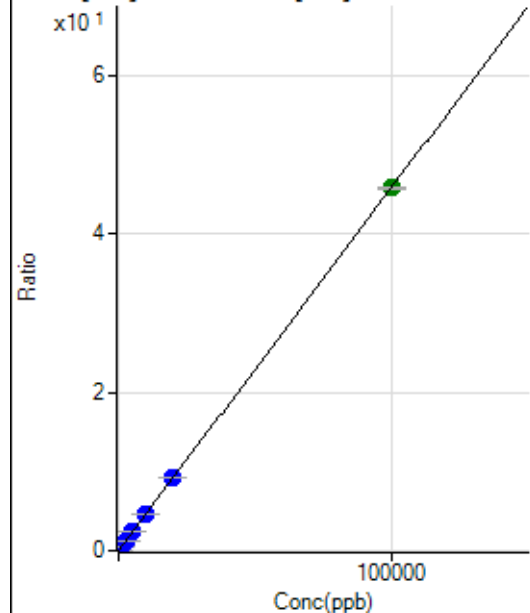
$$y = 9.5094\text{E-}004 * x + 0.0011$$

$$R = 1.0000$$

$$DL = 0.6424$$

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	113.89	0.0004	P	25.0
2	☐	20.000	20.962	3375.47	0.0099	P	3.0
3	☐	1000.000	1035.682	145189.44	0.4745	P	0.3
4	☐	2500.000	2585.955	350977.60	1.1841	P	0.3
5	☐	5000.000	5148.801	692741.97	2.3574	P	0.6
6	☐	10000.000	10077.064	1276228.60	4.6134	P	1.1
7	☐	20000.000	20283.260	2427845.93	9.2856	P	0.7
8	☐	100000.00	99925.696	12077657.65	45.7442	A	0.6

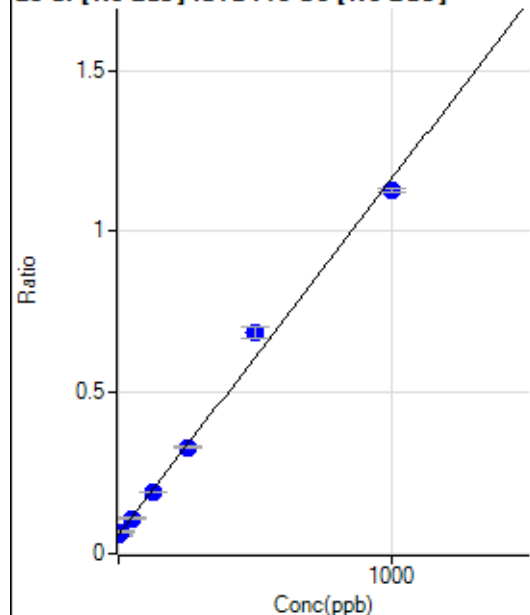
$$y = 4.5778\text{E-}004 * x + 3.5335\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.5783$$

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	247398.48	0.0589	P	12.1
2	☐	10.000	8.018	285598.75	0.0678	P	11.1
3	☐	50.000	46.431	447345.89	0.1101	P	2.6
4	☐	125.000	120.726	754191.50	0.1920	P	1.4
5	☐	250.000	245.619	1265638.55	0.3298	P	2.1
6	☐	500.000	569.462	2468481.91	0.6869	P	4.9
7	☐	1000.000	967.097	3815016.62	1.1254	P	1.1
8	☐			414916.19	0.1254	P	5.1

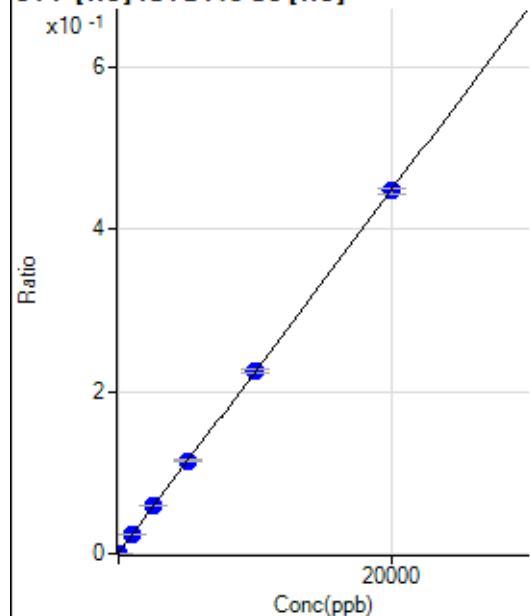
$$y = 0.0011 * x + 0.0589$$

$$R = 0.9963$$

$$DL = 19.38$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-1.149	294.45	0.0009	P	8.3
2	☐	0.000	1.149	327.79	0.0010	P	7.5
3	☐	1000.000	1021.138	7268.61	0.0238	P	1.4
4	☐	2500.000	2594.475	17460.56	0.0589	P	2.0
5	☐	5000.000	5073.622	33599.40	0.1143	P	1.0
6	☐	10000.000	10017.592	62182.07	0.2248	P	2.1
7	☐	20000.000	19959.932	116864.92	0.4470	P	1.9
8	☐			297.23	0.0011	P	24.2

$$y = 2.2346E-005 * x + 9.3652E-004$$

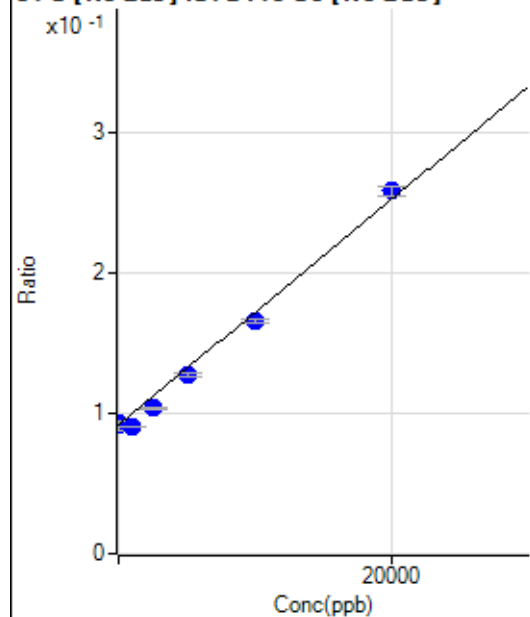
$$R = 1.0000$$

$$DL = 9.918$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	72.156	387567.48	0.0924	P	6.1
2	☐	0.000	-72.156	384237.54	0.0912	P	7.1
3	☐	1000.000	-135.170	368544.45	0.0907	P	0.3
4	☐	2500.000	1465.435	406698.96	0.1036	P	0.6
5	☐	5000.000	4434.698	488907.18	0.1274	P	1.4
6	☐	10000.000	9189.370	595053.43	0.1655	P	1.8
7	☐	20000.000	20732.719	874998.23	0.2581	P	2.4
8	☐			268182.92	0.0810	P	3.6

$$y = 8.0235E-006 * x + 0.0918$$

$$R = 0.9972$$

$$DL = 2269$$

Weight: <None>

Min Conc: 0

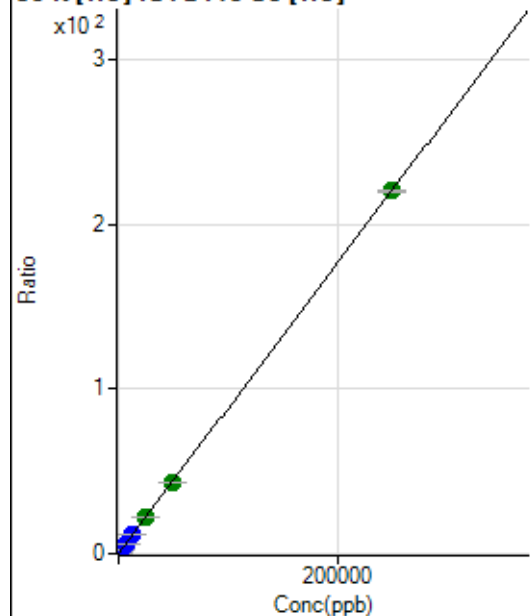
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	40758.35	0.1260	P	5.7
2	☐	500.000	521.302	199238.71	0.5856	P	2.9
3	☐	2500.000	2698.130	766553.93	2.5047	P	0.8
4	☐	6250.000	6759.744	1803637.26	6.0854	P	0.7
5	☐	12500.000	13439.122	3518944.05	11.9740	P	0.7
6	☐	25000.000	24794.489	6082169.97	21.9850	A	1.1
7	☐	50000.000	49193.033	11372115.27	43.4949	A	0.6
8	☐	250000.00	250120.22	58259752.00	220.6337	A	0.8

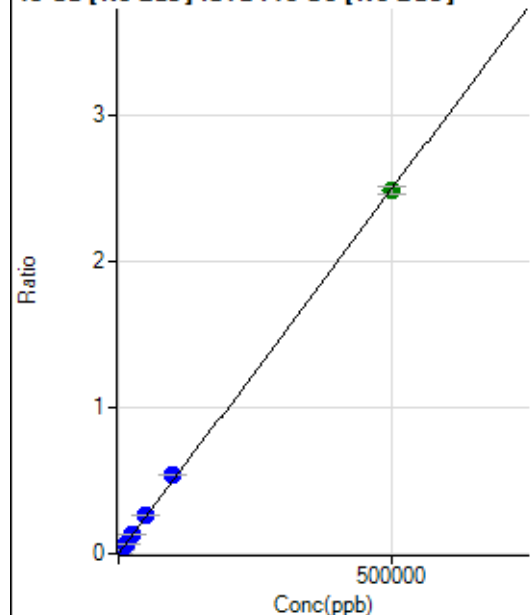
$$y = 8.8161E-004 * x + 0.1260$$

$$R = 1.0000$$

$$DL = 24.33$$

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	122.23	0.0000	P	12.9
2	☐	500.000	488.408	10345.56	0.0025	P	3.6
3	☐	5000.000	5433.314	110031.63	0.0271	P	2.2
4	☐	12500.000	13540.066	264896.47	0.0675	P	0.1
5	☐	25000.000	26865.847	513570.50	0.1338	P	0.5
6	☐	50000.000	53215.299	952674.91	0.2650	P	1.5
7	☐	100000.00	108019.21	1823452.30	0.5379	P	1.9
8	☐	500000.00	497951.01	8206915.29	2.4796	A	2.0

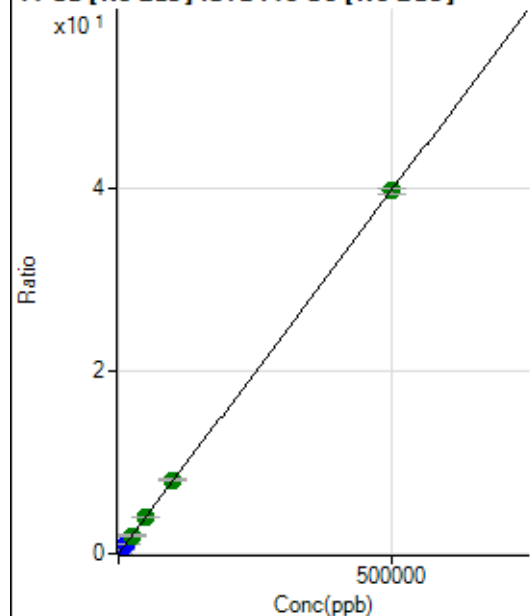
$$y = 4.9795\text{E-}006 * x + 2.9227\text{E-}005$$

$$R = 0.9999$$

$$DL = 2.267$$

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	5292.81	0.0013	P	9.9
2	☐	500.000	512.148	176960.45	0.0421	P	0.6
3	☐	5000.000	5344.588	1735314.77	0.4271	P	0.4
4	☐	12500.000	13501.255	4230061.07	1.0771	P	0.1
5	☐	25000.000	25052.195	7666888.63	1.9975	A	1.3
6	☐	50000.000	49924.949	14305709.00	3.9795	A	1.8
7	☐	100000.00	101521.26	27426529.43	8.0910	A	2.3
8	☐	500000.00	499672.15	131792787.6	39.8177	A	1.8

$$y = 7.9685\text{E-}005 * x + 0.0013$$

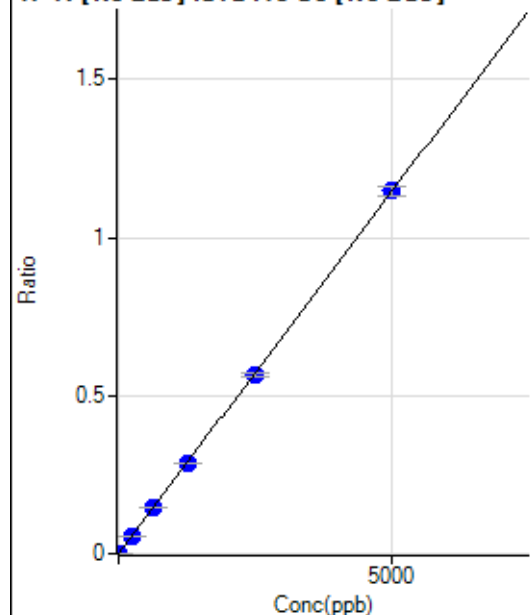
$$R = 1.0000$$

$$DL = 4.712$$

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	58.33	0.0000	P	15.3
2	☐	5.000	4.958	4828.69	0.0011	P	2.2
3	☐	250.000	249.045	231467.56	0.0570	P	0.5
4	☐	625.000	628.009	564152.88	0.1437	P	0.2
5	☐	1250.000	1249.080	1096574.86	0.2857	P	0.5
6	☐	2500.000	2468.067	2029215.26	0.5645	P	2.2
7	☐	5000.000	5015.868	3889284.46	1.1472	P	2.3
8	☐			902.83	0.0003	P	7.4

$$y = 2.2872E-004 * x + 1.3938E-005$$

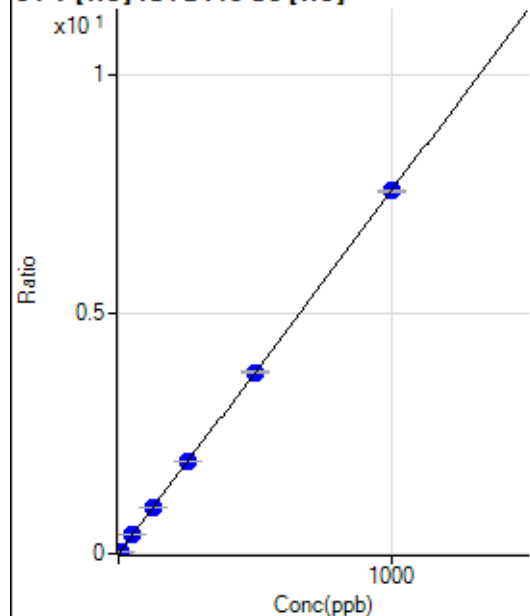
$$R = 1.0000$$

$$DL = 0.02795$$

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	8.89	0.0000	P	42.1
2	☐	5.000	5.086	13092.61	0.0385	P	1.3
3	☐	50.000	50.469	116973.42	0.3822	P	0.6
4	☐	125.000	127.280	285728.94	0.9640	P	1.1
5	☐	250.000	253.246	563655.49	1.9179	P	0.7
6	☐	500.000	498.696	1044775.17	3.7768	P	1.2
7	☐	1000.000	999.532	1979225.06	7.5697	P	0.4
8	☐			374.45	0.0014	P	10.0

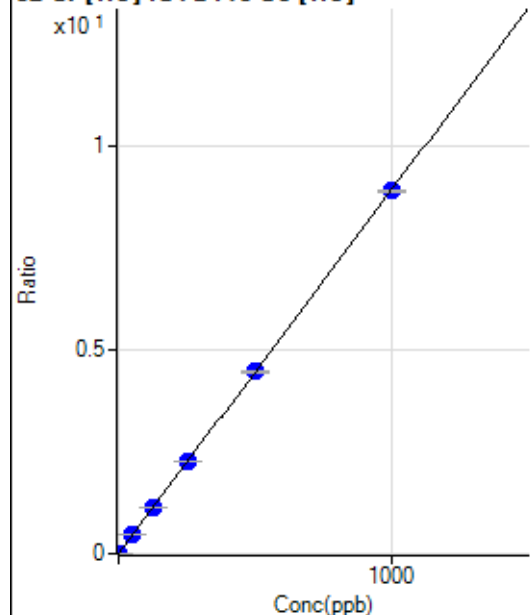
$$y = 0.0076 * x + 2.7435E-005$$

$$R = 1.0000$$

$$DL = 0.004579$$

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	824.48	0.0026	P	1.0
2	☐	2.000	2.042	7066.21	0.0208	P	2.8
3	☐	50.000	51.143	140589.00	0.4594	P	0.2
4	☐	125.000	129.032	342412.87	1.1552	P	0.2
5	☐	250.000	255.417	671236.63	2.2843	P	0.2
6	☐	500.000	500.843	1238368.64	4.4767	P	1.5
7	☐	1000.000	997.663	2330980.70	8.9150	P	0.4
8	☐			7907.74	0.0299	P	3.1

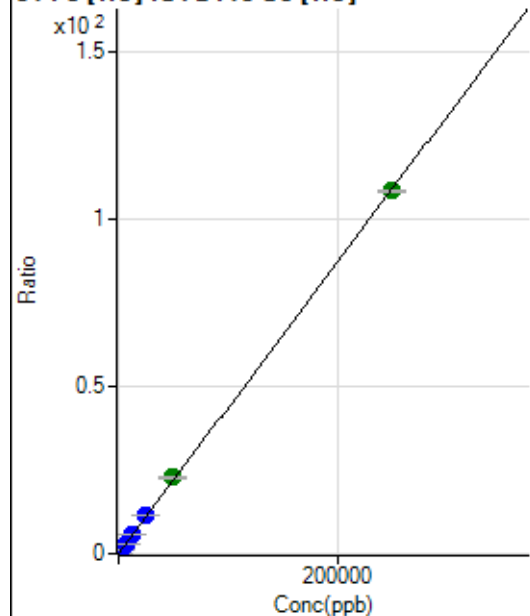
$$y = 0.0089 * x + 0.0026$$

$$R = 1.0000$$

$$DL = 0.008749$$

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	967.70	0.0030	P	1.2
2	☐	50.000	54.687	9095.51	0.0268	P	2.6
3	☐	2500.000	2739.188	365818.18	1.1955	P	0.8
4	☐	6250.000	6897.452	890890.10	3.0058	P	0.0
5	☐	12500.000	13654.225	1747167.83	5.9473	P	0.7
6	☐	25000.000	26778.250	3225463.87	11.6608	P	2.0
7	☐	50000.000	52333.697	5957563.71	22.7862	A	0.9
8	☐	250000.00	249279.14	28653676.84	108.5254	A	0.4

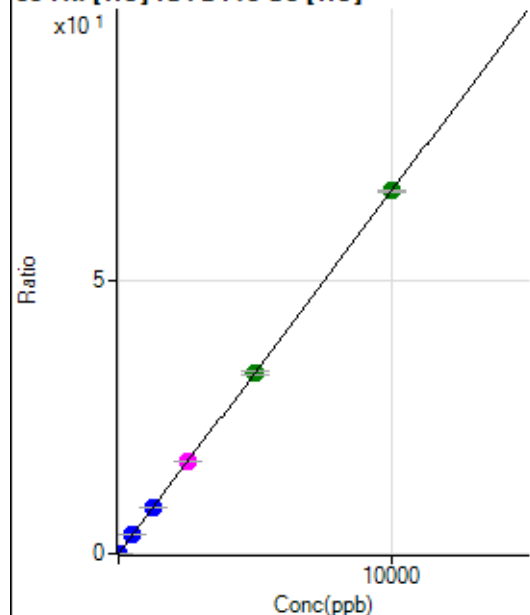
$$y = 4.3535E-004 * x + 0.0030$$

$$R = 0.9999$$

$$DL = 0.2398$$

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	61.11	0.0002	P	26.2
2	☐	1.000	1.010	2340.21	0.0069	P	4.0
3	☐	500.000	505.894	1027160.77	3.3568	P	0.7
4	☐	1250.000	1272.559	2502519.20	8.4437	P	0.6
5	☐	2500.000	2530.751	4932562.85	16.7919	M	0.9
6	☐	5000.000	4971.998	9125605.28	32.9897	A	1.7
7	☐	10000.000	10003.199	17353493.21	66.3721	A	0.6
8	☐			18393.80	0.0697	P	2.3

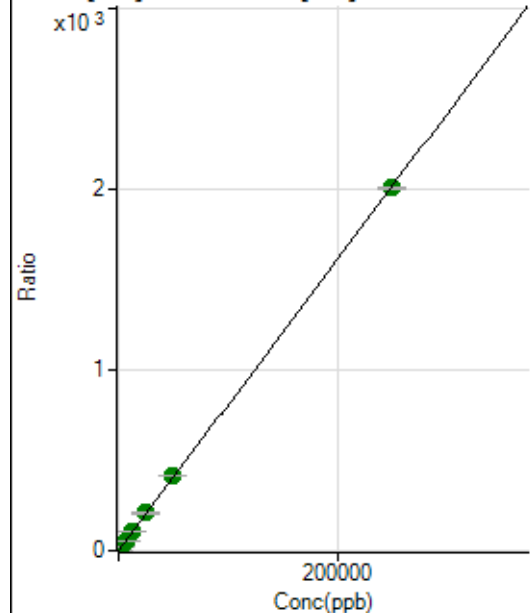
$$y = 0.0066 * x + 1.8933E-004$$

$$R = 1.0000$$

$$DL = 0.0224$$

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	4293.28	0.0133	P	5.6
2	☐	50.000	53.136	149399.54	0.4403	P	2.4
3	☐	2500.000	2610.102	6421658.94	20.9870	A	0.9
4	☐	6250.000	6573.635	15660500.93	52.8364	A	0.1
5	☐	12500.000	13106.320	30944327.78	105.3305	A	0.5
6	☐	25000.000	25824.218	57408520.26	207.5264	A	1.2
7	☐	50000.000	51827.949	108892668.1	416.4820	A	0.6
8	☐	250000.00	249512.48	529369289.6	2,004.996	A	0.8

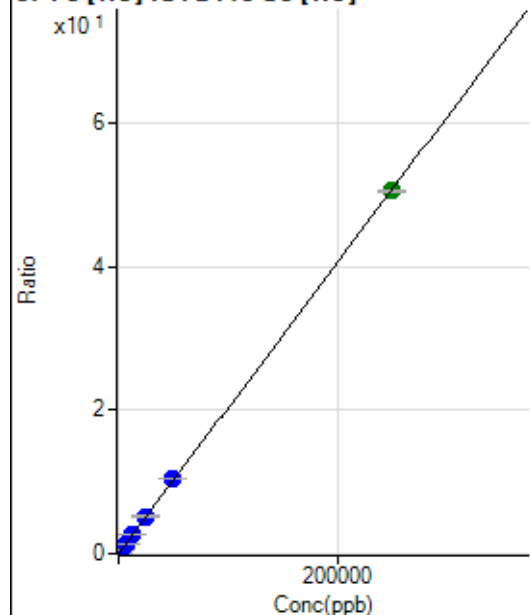
$$y = 0.0080 * x + 0.0133$$

$$R = 1.0000$$

$$DL = 0.2783$$

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	201.86	0.0006	P	21.6
2	☐	50.000	51.886	3780.19	0.0111	P	2.2
3	☐	2500.000	2621.022	162410.53	0.5307	P	0.3
4	☐	6250.000	6601.988	395939.79	1.3358	P	0.6
5	☐	12500.000	13115.531	779446.31	2.6532	P	0.5
6	☐	25000.000	25736.557	1440021.33	5.2057	P	1.4
7	☐	50000.000	51308.135	2713337.39	10.3774	P	0.3
8	☐	250000.00	249623.93	13329562.80	50.4855	A	0.6

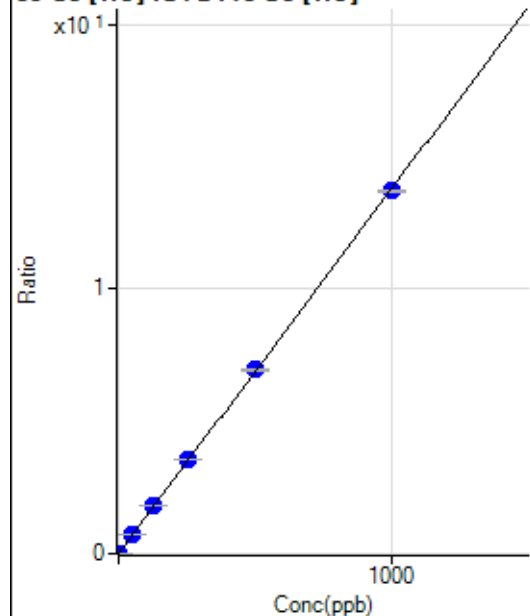
$$y = 2.0224\text{E-}004 * x + 6.2435\text{E-}004$$

$$R = 1.0000$$

$$DL = 2.004$$

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	44.44	0.0001	P	18.4
2	☐	1.000	1.026	4837.51	0.0143	P	3.8
3	☐	50.000	52.432	220935.50	0.7220	P	0.7
4	☐	125.000	130.896	534169.58	1.8023	P	0.3
5	☐	250.000	257.772	1042458.07	3.5491	P	1.1
6	☐	500.000	504.501	1921478.89	6.9460	P	1.2
7	☐	1000.000	994.948	3581549.77	13.6983	P	0.4
8	☐			9067.33	0.0343	P	2.7

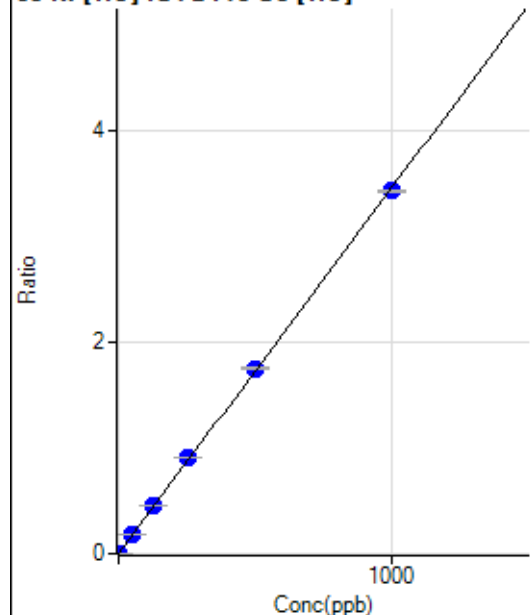
$$y = 0.0138 * x + 1.3749\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.005506$$

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	237.78	0.0007	P	22.8
2	☐	1.000	1.136	1588.99	0.0047	P	10.0
3	☐	50.000	53.735	56958.93	0.1861	P	1.0
4	☐	125.000	131.655	134855.16	0.4550	P	0.6
5	☐	250.000	261.654	265469.56	0.9036	P	0.4
6	☐	500.000	506.843	484004.18	1.7496	P	0.9
7	☐	1000.000	992.646	895741.06	3.4258	P	0.7
8	☐			3608.25	0.0137	P	2.1

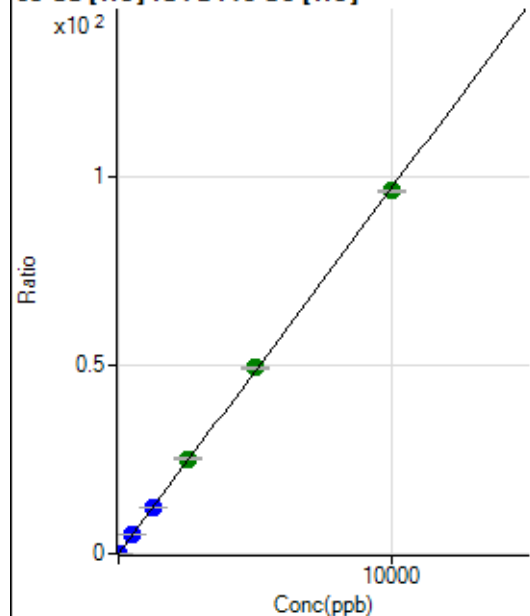
$$y = 0.0035 * x + 7.3323E-004$$

$$R = 0.9999$$

$$DL = 0.1456$$

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	687.80	0.0021	P	8.5
2	☐	2.000	1.773	6554.87	0.0193	P	1.6
3	☐	500.000	513.182	1521564.21	4.9722	P	0.1
4	☐	1250.000	1282.773	3682676.06	12.4254	P	0.6
5	☐	2500.000	2604.267	7410033.22	25.2237	A	0.8
6	☐	5000.000	5083.731	13620671.60	49.2367	A	1.4
7	☐	10000.000	9927.312	25138301.85	96.1454	A	0.2
8	☐			6483.71	0.0246	P	2.9

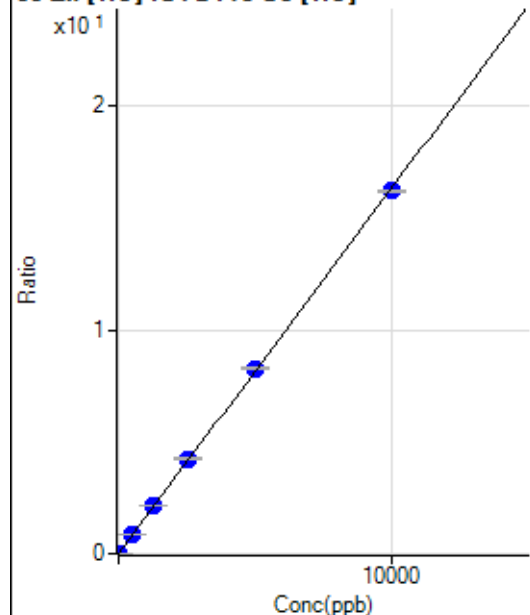
$$y = 0.0097 * x + 0.0021$$

$$R = 0.9999$$

$$DL = 0.05595$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	310.01	0.0010	P	2.7
2	☐	2.000	2.586	1756.79	0.0052	P	3.6
3	☐	500.000	528.131	264071.21	0.8630	P	0.7
4	☐	1250.000	1324.392	640938.98	2.1626	P	0.8
5	☐	2500.000	2603.791	1248819.30	4.2509	P	0.8
6	☐	5000.000	5062.365	2285994.29	8.2638	P	1.3
7	☐	10000.000	9932.164	4238837.99	16.2122	P	0.7
8	☐			8568.13	0.0325	P	2.9

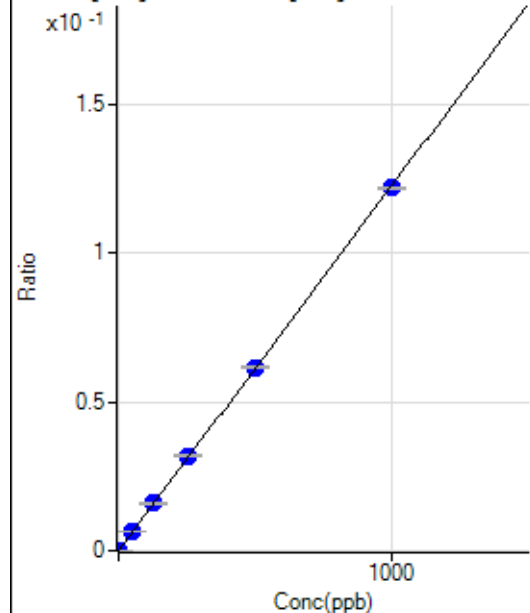
$$y = 0.0016 * x + 9.5898E-004$$

$$R = 0.9999$$

$$DL = 0.04791$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.03	0.0000	P	13.1
2	☐	1.000	1.070	351.24	0.0001	P	4.7
3	☐	50.000	51.872	15365.54	0.0064	P	0.6
4	☐	125.000	129.486	37492.48	0.0159	P	1.2
5	☐	250.000	261.006	75192.98	0.0320	P	3.2
6	☐	500.000	503.301	137169.46	0.0617	P	0.4
7	☐	1000.000	994.943	257719.70	0.1221	P	0.8
8	☐			111.73	0.0001	P	11.2

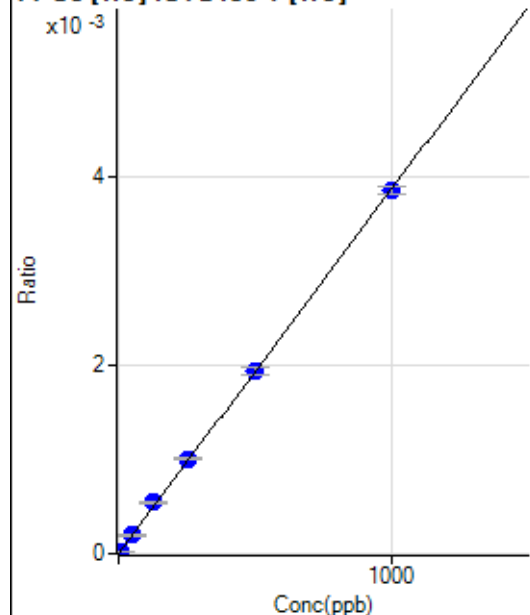
$$y = 1.2268E-004 * x + 3.1737E-006$$

$$R = 0.9999$$

$$DL = 0.0102$$

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	4.278	43.33	0.0000	P	4.6
3	☐	50.000	50.965	476.68	0.0002	P	8.5
4	☐	125.000	141.014	1290.07	0.0005	P	5.0
5	☐	250.000	259.321	2357.99	0.0010	P	2.4
6	☐	500.000	500.715	4311.80	0.0019	P	4.3
7	☐	1000.000	995.266	8146.79	0.0039	P	2.1
8	☐			1.11	0.0000	P	173.2

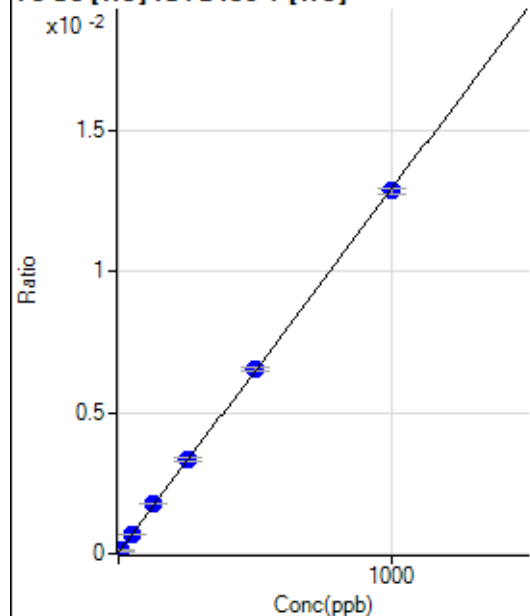
$$y = 3.8776\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

$$DL = 0$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	109.88	0.0000	P	6.2
2	☐	5.000	4.854	277.16	0.0001	P	10.3
3	☐	50.000	51.760	1712.46	0.0007	P	1.4
4	☐	125.000	132.673	4132.09	0.0018	P	1.0
5	☐	250.000	254.756	7787.30	0.0033	P	4.4
6	☐	500.000	505.898	14559.80	0.0066	P	2.4
7	☐	1000.000	994.816	27123.44	0.0128	P	1.8
8	☐			82.71	0.0000	P	32.2

$$y = 1.2872\text{E-}005 * x + 4.3467\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.6233$$

Weight: <None>

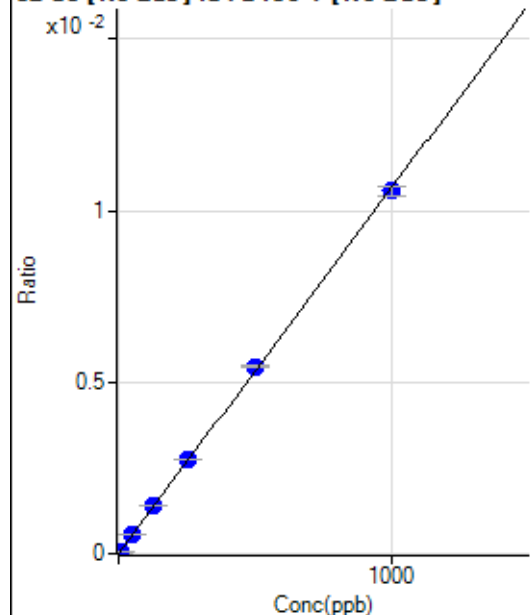
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5781.96		P	22.2
2	☐			6582.40		P	20.0
3	☐			6812.89		P	0.8
4	☐			6754.55		P	9.7
5	☐			6546.14		P	4.5
6	☐			6437.73		P	7.7
7	☐			5520.69		P	17.7
8	☐			5173.30		P	3.9

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			53.39		P	43.3
2	☐			36.70		P	15.7
3	☐			36.70		P	31.5
4	☐			36.70		P	31.5
5	☐			30.03		P	33.3
6	☐			30.03		P	115.5
7	☐			33.37		P	75.5
8	☐			40.04		P	25.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	14.16	0.0000	P	158.5
2	☐	5.000	5.034	638.10	0.0001	P	9.0
3	☐	50.000	50.797	6133.98	0.0005	P	1.5
4	☐	125.000	132.691	15413.20	0.0014	P	1.1
5	☐	250.000	257.469	29585.30	0.0027	P	0.7
6	☐	500.000	510.253	56031.36	0.0054	P	1.0
7	☐	1000.000	992.005	105182.06	0.0106	P	2.4
8	☐			-10.79	0.0000	P	-586.

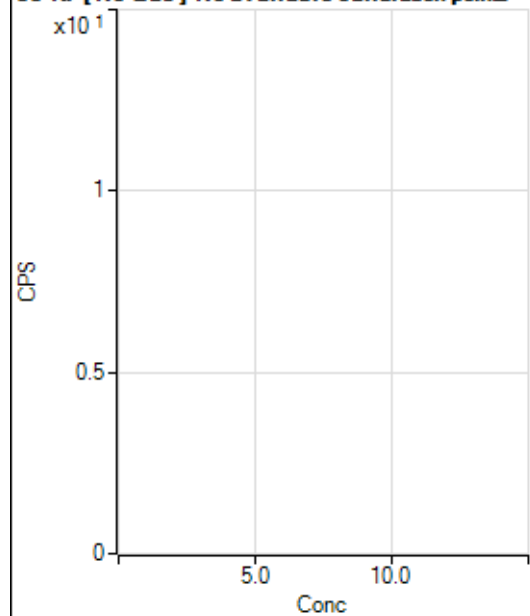
$$y = 1.0657\text{E-}005 * x + 1.2004\text{E-}006$$

$$R = 0.9999$$

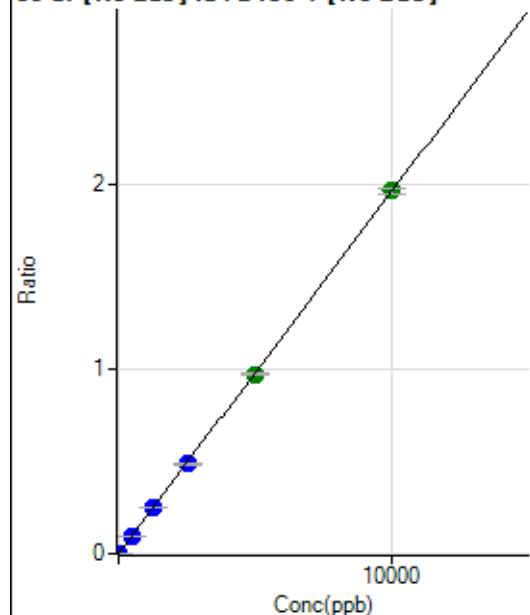
$$DL = 0.5355$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			553.35		P	5.8
2	☐			561.13		P	4.0
3	☐			595.58		P	5.6
4	☐			492.24		P	2.6
5	☐			513.34		P	15.2
6	☐			490.01		P	11.9
7	☐			408.90		P	1.2
8	☐			484.46		P	4.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	972.29	0.0001	P	10.2
2	☐	1.000	0.946	3130.96	0.0003	P	0.2
3	☐	500.000	495.068	1096963.99	0.0970	P	0.9
4	☐	1250.000	1266.659	2702408.89	0.2482	P	0.9
5	☐	2500.000	2481.045	5237520.56	0.4860	P	1.1
6	☐	5000.000	4961.073	10010066.72	0.9717	A	0.9
7	☐	10000.000	10022.366	19525279.60	1.9629	A	1.4
8	☐			8283.16	0.0009	P	2.5

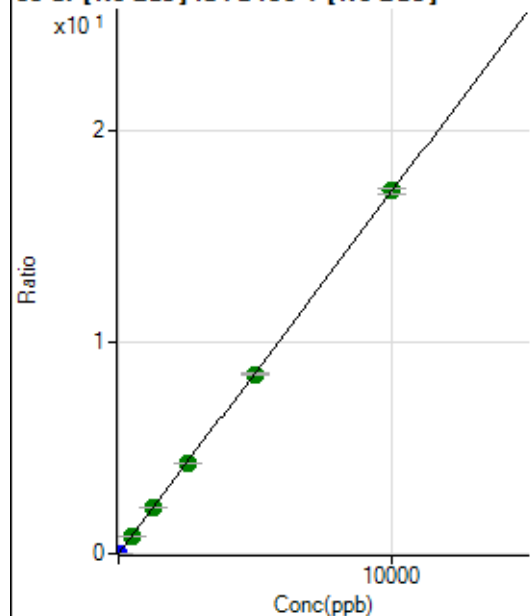
$$y = 1.9584E-004 * x + 8.4329E-005$$

$$R = 1.0000$$

$$DL = 0.1316$$

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	250.01	0.0000	P	5.1
2	☐	1.000	1.051	21152.32	0.0018	P	0.5
3	☐	500.000	495.971	9596781.55	0.8490	A	1.1
4	☐	1250.000	1263.277	23548884.55	2.1623	A	1.1
5	☐	2500.000	2498.941	46098340.96	4.2774	A	0.8
6	☐	5000.000	4956.747	87405311.68	8.4844	A	0.9
7	☐	10000.000	10020.433	170612013.5	17.1518	A	1.4
8	☐			67343.99	0.0071	P	1.9

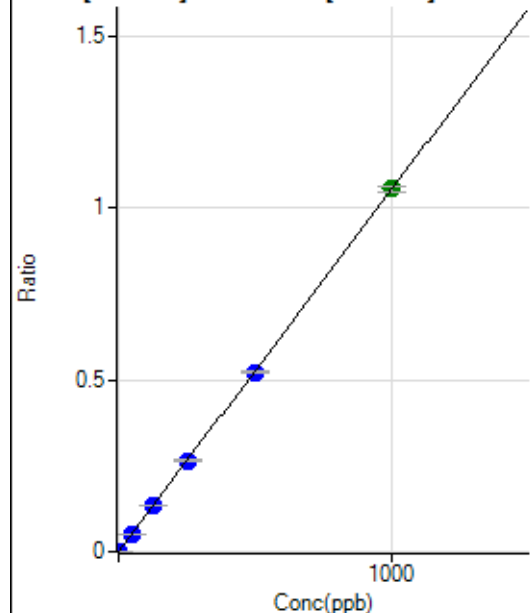
$$y = 0.0017 * x + 2.1716E-005$$

$$R = 1.0000$$

$$DL = 0.001937$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	594.47	0.0001	P	12.1
2	☐	1.000	0.953	12247.18	0.0011	P	3.6
3	☐	50.000	49.873	593704.09	0.0525	P	0.9
4	☐	125.000	126.945	1455001.13	0.1336	P	0.7
5	☐	250.000	251.257	2849335.50	0.2644	P	1.0
6	☐	500.000	495.111	5366517.96	0.5209	P	1.5
7	☐	1000.000	1001.893	10485075.15	1.0541	A	1.9
8	☐			3044.85	0.0003	P	3.8

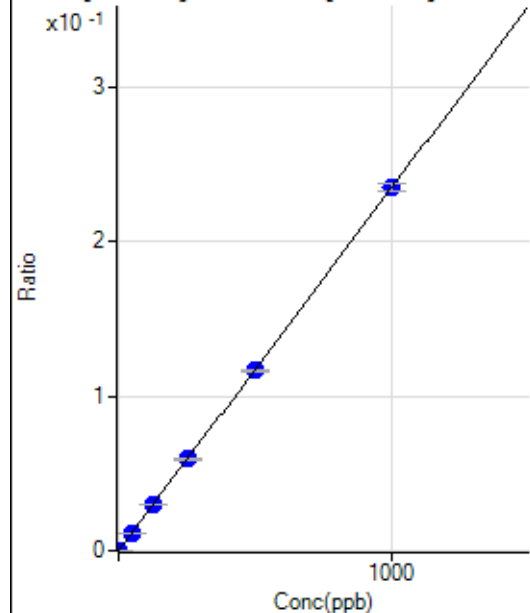
$$y = 0.0011 * x + 5.1525E-005$$

$$R = 1.0000$$

$$DL = 0.01776$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	127.78	0.0000	P	36.3
2	☐	1.000	0.890	2553.08	0.0002	P	6.9
3	☐	50.000	49.814	132330.61	0.0117	P	1.5
4	☐	125.000	127.515	326150.03	0.0299	P	1.1
5	☐	250.000	253.068	640440.95	0.0594	P	1.3
6	☐	500.000	497.620	1203691.72	0.1168	P	1.0
7	☐	1000.000	1000.118	2335732.87	0.2348	P	2.2
8	☐			619.47	0.0001	P	5.6

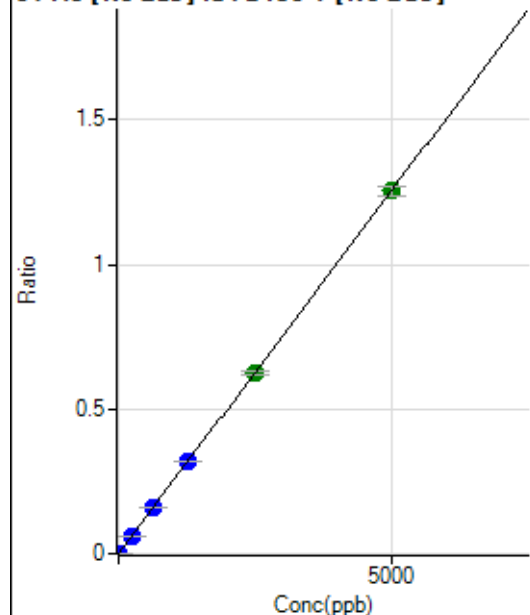
$$y = 2.3478E-004 * x + 1.1051E-005$$

$$R = 1.0000$$

$$DL = 0.05131$$

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	208.34	0.0000	P	5.3
2	☐	5.000	4.868	14401.99	0.0012	P	1.7
3	☐	250.000	249.686	708496.28	0.0627	P	1.2
4	☐	625.000	639.296	1747251.14	0.1604	P	1.3
5	☐	1250.000	1265.155	3421774.56	0.3175	P	0.9
6	☐	2500.000	2490.406	6438584.78	0.6250	A	1.3
7	☐	5000.000	4999.237	12478719.64	1.2546	A	2.8
8	☐			3550.53	0.0004	P	4.1

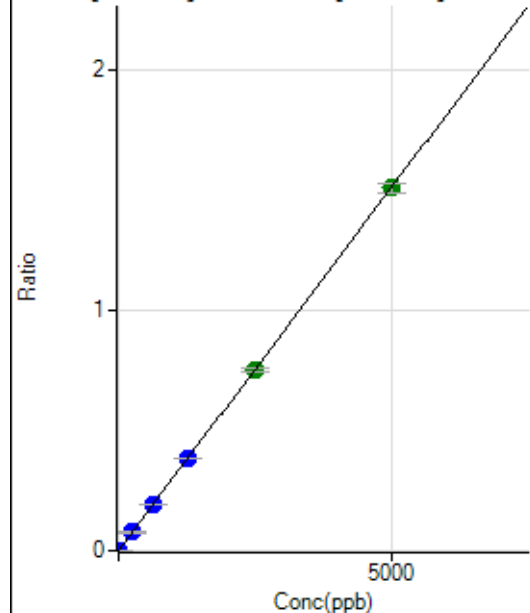
$$y = 2.5095E-004 * x + 1.8095E-005$$

$$R = 1.0000$$

$$DL = 0.01142$$

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	22.22	0.0000	P	22.0
2	☐	5.000	4.992	17569.60	0.0015	P	1.9
3	☐	250.000	251.897	861966.10	0.0763	P	1.3
4	☐	625.000	644.181	2123556.06	0.1950	P	1.2
5	☐	1250.000	1270.561	4145042.37	0.3846	P	0.6
6	☐	2500.000	2495.825	7782726.21	0.7555	A	2.0
7	☐	5000.000	4994.455	15038222.56	1.5119	A	2.5
8	☐			4117.37	0.0004	P	9.0

$$y = 3.0271E-004 * x + 1.9305E-006$$

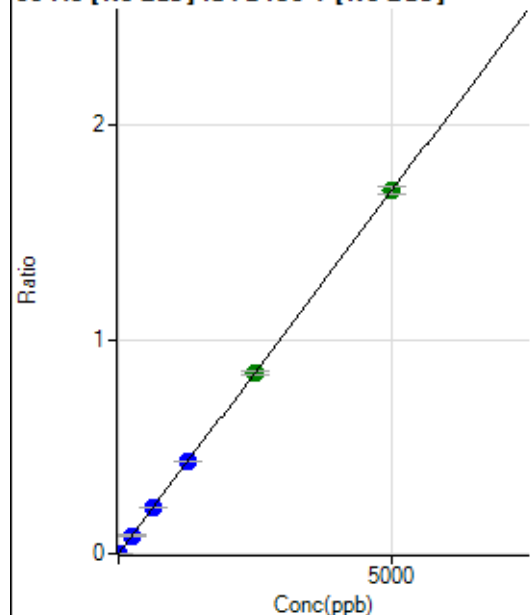
$$R = 1.0000$$

$$DL = 0.004212$$

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	125.00	0.0000	P	21.9
2	☐	5.000	4.976	19722.37	0.0017	P	1.4
3	☐	250.000	250.854	961655.31	0.0851	P	1.0
4	☐	625.000	641.549	2369082.76	0.2175	P	1.3
5	☐	1250.000	1265.810	4625782.05	0.4292	P	0.9
6	☐	2500.000	2487.716	8690052.19	0.8435	A	1.6
7	☐	5000.000	5000.078	16864385.79	1.6954	A	2.2
8	☐			5276.11	0.0006	P	2.9

$$y = 3.3908\text{E-}004 * x + 1.0817\text{E-}005$$

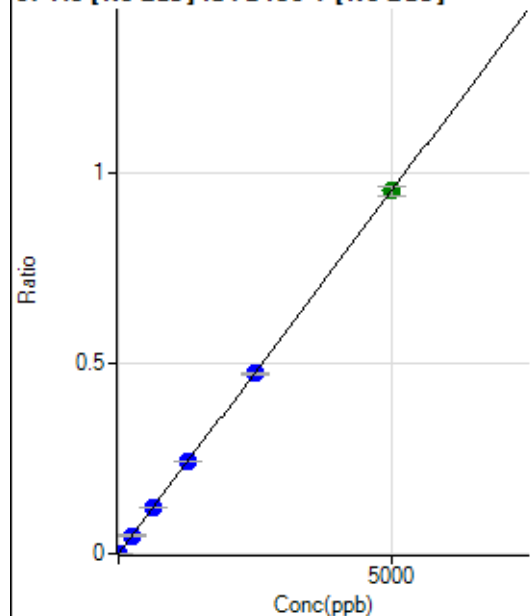
$$R = 1.0000$$

$$DL = 0.02092$$

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	27.78	0.0000	P	67.3
2	☐	5.000	4.973	11018.45	0.0009	P	1.3
3	☐	250.000	251.516	540860.94	0.0478	P	2.0
4	☐	625.000	642.408	1330879.21	0.1222	P	1.2
5	☐	1250.000	1274.881	2613772.84	0.2425	P	0.8
6	☐	2500.000	2482.894	4865747.25	0.4723	P	1.5
7	☐	5000.000	5000.081	9461272.00	0.9512	A	2.5
8	☐			2361.37	0.0002	P	8.6

$$y = 1.9023\text{E-}004 * x + 2.3918\text{E-}006$$

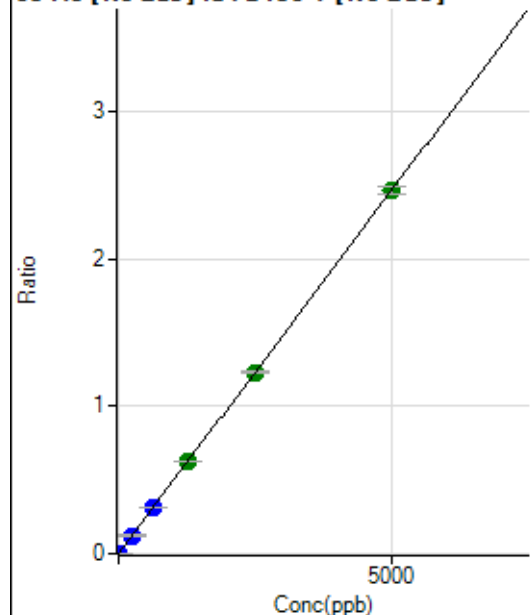
$$R = 1.0000$$

$$DL = 0.02538$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0000	P	29.2
2	☐	5.000	4.967	28484.39	0.0025	P	2.2
3	☐	250.000	250.971	1398715.78	0.1237	P	1.1
4	☐	625.000	640.127	3436763.62	0.3156	P	1.3
5	☐	1250.000	1270.919	6752845.72	0.6266	A	0.5
6	☐	2500.000	2494.811	12670702.63	1.2300	A	1.0
7	☐	5000.000	4995.425	24496963.74	2.4628	A	2.1
8	☐			6312.71	0.0007	P	5.7

$$y = 4.9300\text{E-}004 * x + 4.3436\text{E-}006$$

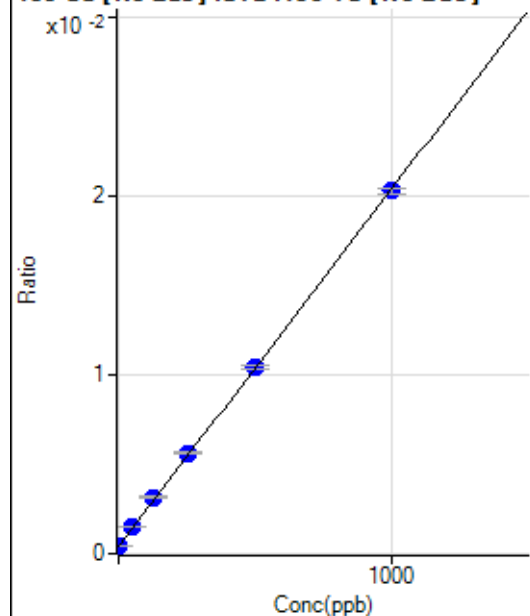
$$R = 1.0000$$

$$DL = 0.007718$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3964.55	0.0004	P	7.0
2	☐	1.000	2.081	4475.84	0.0004	P	3.5
3	☐	50.000	54.553	15155.63	0.0015	P	4.0
4	☐	125.000	136.578	31474.37	0.0031	P	3.0
5	☐	250.000	262.128	56253.43	0.0056	P	1.6
6	☐	500.000	500.257	102560.80	0.0104	P	2.0
7	☐	1000.000	995.164	194716.05	0.0203	P	1.6
8	☐			3695.02	0.0004	P	0.8

$$y = 1.9950\text{E-}005 * x + 3.9736\text{E-}004$$

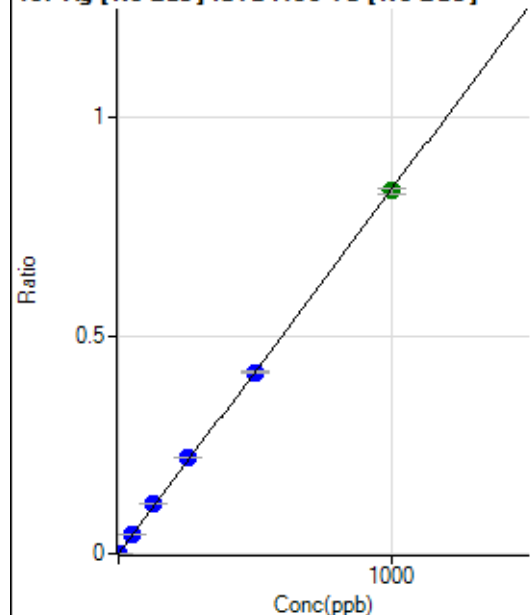
$$R = 0.9999$$

$$DL = 4.209$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	91.67	0.0000	P	35.0
2	☐	1.000	1.064	9158.71	0.0009	P	0.9
3	☐	50.000	54.771	466637.99	0.0457	P	0.6
4	☐	125.000	135.766	1142821.26	0.1134	P	0.5
5	☐	250.000	264.124	2204603.00	0.2205	P	1.2
6	☐	500.000	497.294	4103578.52	0.4152	P	1.3
7	☐	1000.000	996.238	7996851.91	0.8318	A	1.7
8	☐			2041.86	0.0002	P	5.1

$$y = 8.3493\text{E-}004 * x + 9.1592\text{E-}006$$

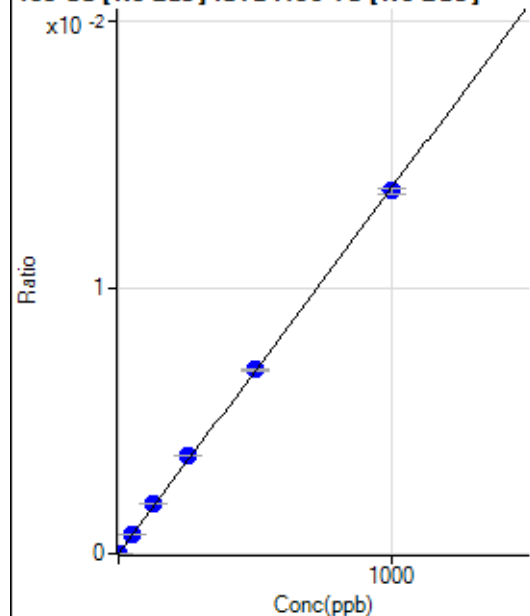
$$R = 0.9999$$

$$DL = 0.01152$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31.94	0.0000	P	57.8
2	☐	1.000	0.888	156.94	0.0000	P	27.1
3	☐	50.000	54.092	7617.40	0.0007	P	2.1
4	☐	125.000	135.419	18795.88	0.0019	P	1.4
5	☐	250.000	268.966	36992.59	0.0037	P	0.6
6	☐	500.000	502.481	68290.48	0.0069	P	0.8
7	☐	1000.000	992.511	131188.29	0.0136	P	1.6
8	☐			109.73	0.0000	P	19.3

$$y = 1.3745\text{E-}005 * x + 3.1838\text{E-}006$$

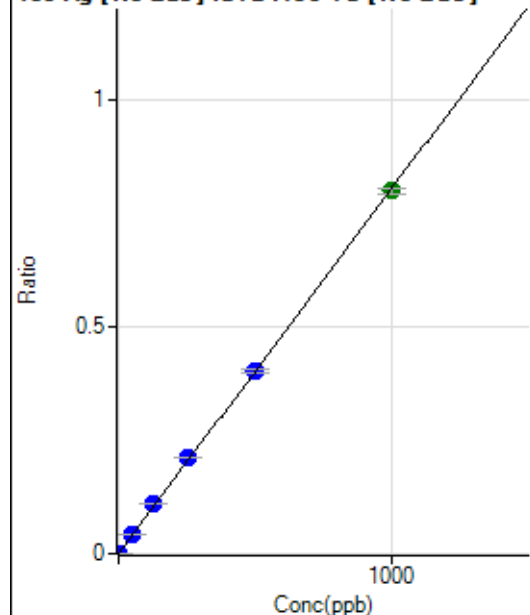
$$R = 0.9998$$

$$DL = 0.4015$$

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	22.22	0.0000	P	76.9
2	☐	1.000	1.054	8652.82	0.0008	P	1.3
3	☐	50.000	54.661	447541.32	0.0439	P	0.6
4	☐	125.000	136.223	1102048.51	0.1093	P	0.8
5	☐	250.000	264.977	2125837.38	0.2126	P	0.7
6	☐	500.000	500.500	3969554.82	0.4017	P	1.2
7	☐	1000.000	994.370	7671527.86	0.7980	A	1.9
8	☐			2030.76	0.0002	P	1.3

$$y = 8.0249E-004 * x + 2.2192E-006$$

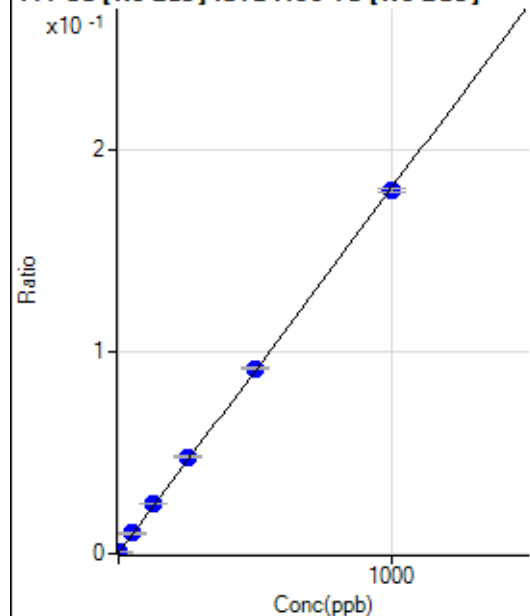
$$R = 0.9998$$

$$DL = 0.006376$$

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	2775.05	0.0003	P	6.9
2	☐	1.000	1.191	5031.73	0.0005	P	2.0
3	☐	50.000	53.923	102200.58	0.0100	P	1.0
4	☐	125.000	134.704	248079.47	0.0246	P	0.7
5	☐	250.000	263.704	478937.14	0.0479	P	1.1
6	☐	500.000	505.341	904829.19	0.0916	P	1.2
7	☐	1000.000	992.494	1726248.62	0.1795	P	1.2
8	☐			3044.44	0.0003	P	0.7

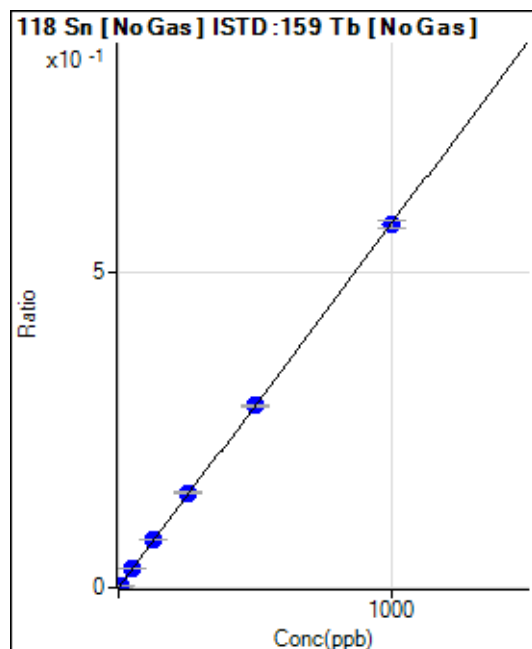
$$y = 1.8062E-004 * x + 2.7815E-004$$

$$R = 0.9999$$

$$DL = 0.3189$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	600.03	0.0001	P	3.9
2	☐	5.000	5.112	30750.83	0.0030	P	1.5
3	☐	50.000	52.683	311335.04	0.0305	P	0.6
4	☐	125.000	132.495	772773.40	0.0767	P	0.6
5	☐	250.000	259.498	1500309.71	0.1501	P	1.5
6	☐	500.000	500.304	2859103.41	0.2893	P	1.0
7	☐	1000.000	996.402	5538312.84	0.5761	P	2.0
8	☐			2664.21	0.0003	P	12.0

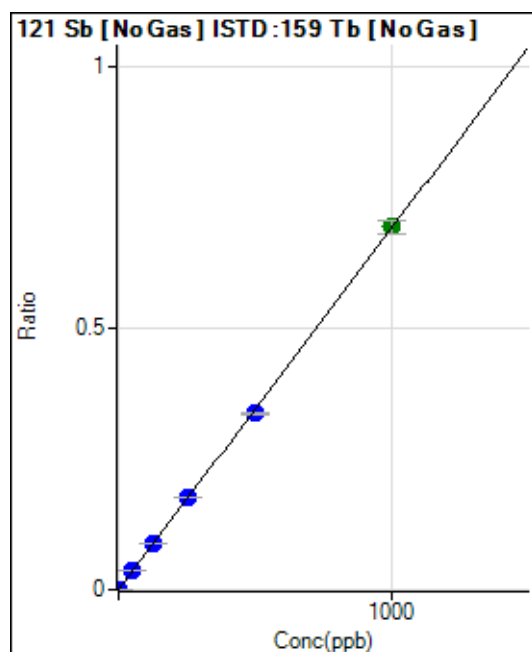
$$y = 5.7811\text{E-}004 * x + 6.0186\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.01217$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	144.45	0.0000	P	27.7
2	☐	2.000	2.085	14849.93	0.0015	P	6.4
3	☐	50.000	51.090	360661.14	0.0354	P	0.5
4	☐	125.000	128.736	897785.59	0.0891	P	0.2
5	☐	250.000	256.210	1771686.52	0.1772	P	1.4
6	☐	500.000	488.265	3337766.76	0.3377	P	1.5
7	☐	1000.000	1003.793	6673521.03	0.6943	A	3.9
8	☐			4386.93	0.0005	P	1.4

$$y = 6.9166\text{E-}004 * x + 1.4530\text{E-}005$$

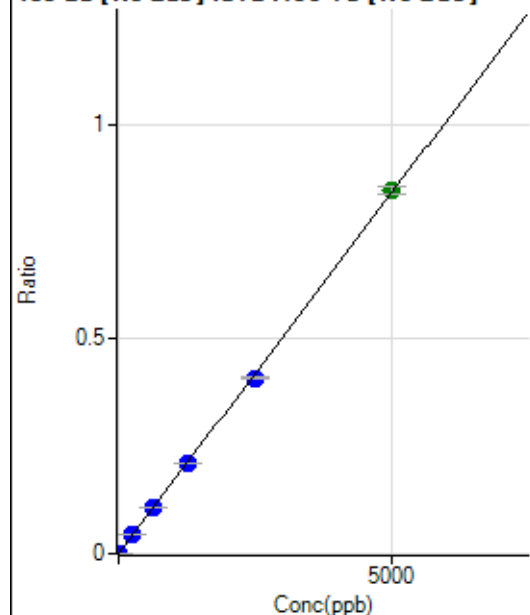
$$R = 0.9999$$

$$DL = 0.01743$$

Weight: <None>

Min Conc: 0

135 Ba [No Gas] ISTD : 159 Tb [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	22.22	0.0000	P	22.7
2	☐	10.000	10.203	17503.03	0.0017	P	4.4
3	☐	250.000	254.665	436552.82	0.0428	P	0.2
4	☐	625.000	636.420	1077970.39	0.1069	P	0.4
5	☐	1250.000	1258.204	2113300.20	0.2114	P	1.3
6	☐	2500.000	2431.444	4037460.20	0.4085	P	1.2
7	☐	5000.000	5030.566	8125640.20	0.8452	A	2.0
8	☐			3078.20	0.0003	P	4.1

$$y = 1.6802\text{E-}004 * x + 2.2329\text{E-}006$$

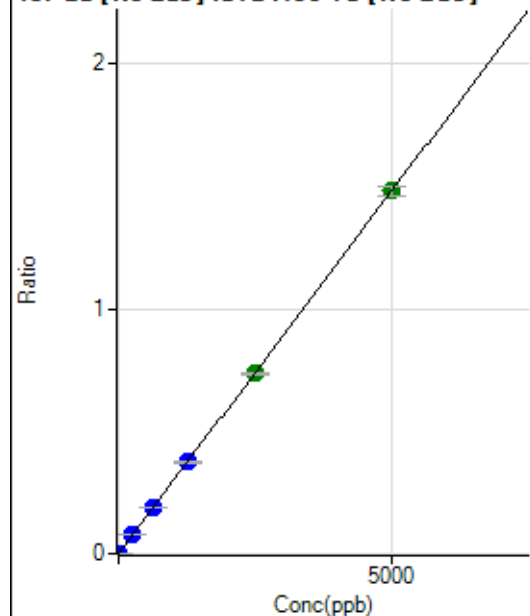
$$R = 0.9999$$

$$DL = 0.009037$$

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	50.00	0.0000	P	30.6
2	☐	10.000	10.154	30706.63	0.0030	P	2.3
3	☐	250.000	254.580	768822.43	0.0754	P	0.1
4	☐	625.000	633.283	1889692.86	0.1875	P	1.1
5	☐	1250.000	1261.679	3733256.29	0.3734	P	1.2
6	☐	2500.000	2481.706	7259921.95	0.7346	A	0.9
7	☐	5000.000	5004.962	14240898.93	1.4814	A	2.6
8	☐			5378.95	0.0006	P	1.7

$$y = 2.9599\text{E-}004 * x + 5.0311\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01562$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

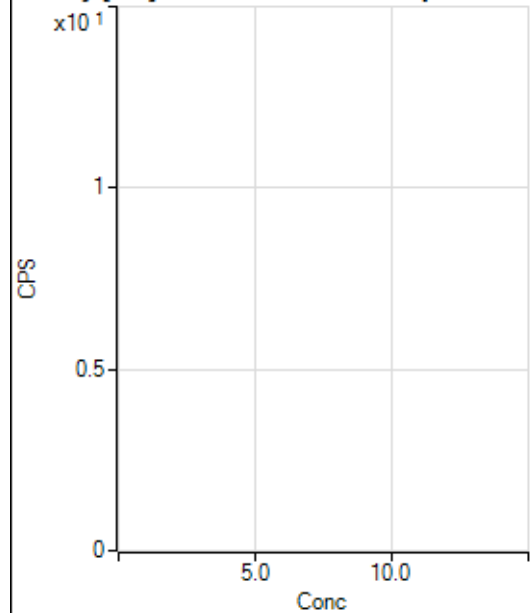
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	173.2
3	☐			46.67		P	51.5
4	☐			122.22		P	32.9
5	☐			217.79		P	1.8
6	☐			306.68		P	7.5
7	☐			884.49		P	13.1
8	☐			33.34		P	34.6

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			2.22		P	86.6
3	☐			13.33		P	25.0
4	☐			10.00		P	0.0
5	☐			45.56		P	16.9
6	☐			77.78		P	8.9
7	☐			201.11		P	14.1
8	☐			11.11		P	45.8

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.0
2	☐			8.33		P	100.0
3	☐			38.89		P	44.6
4	☐			75.00		P	33.3
5	☐			116.67		P	25.8
6	☐			252.79		P	10.6
7	☐			608.36		P	8.3
8	☐			1305.65		P	3.7

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.1
2	☐			3.33		P	0.0
3	☐			24.44		P	20.8
4	☐			46.67		P	21.4
5	☐			91.11		P	27.5
6	☐			170.00		P	23.1
7	☐			375.57		P	8.9
8	☐			794.48		P	7.6

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

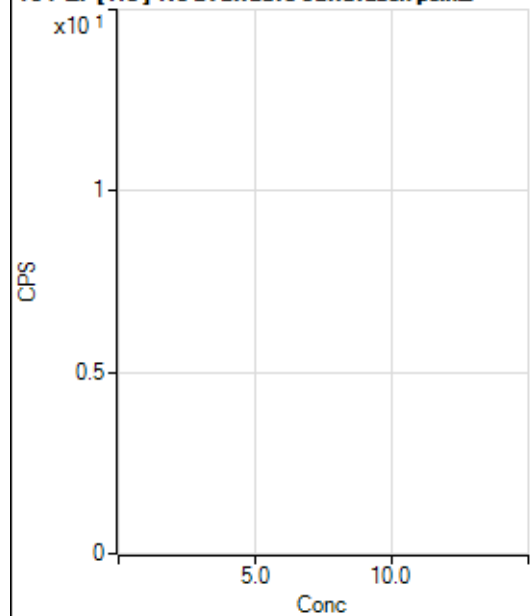
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.67		P	34.6
2	☐			61.11		P	39.4
3	☐			72.22		P	58.1
4	☐			100.00		P	22.0
5	☐			155.56		P	15.5
6	☐			233.34		P	15.6
7	☐			550.03		P	11.8
8	☐			1455.67		P	9.1

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			131.11		P	5.9
2	☐			117.78		P	11.4
3	☐			127.78		P	19.8
4	☐			143.33		P	24.3
5	☐			162.23		P	4.7
6	☐			243.34		P	8.6
7	☐			388.90		P	2.0
8	☐			978.93		P	5.0

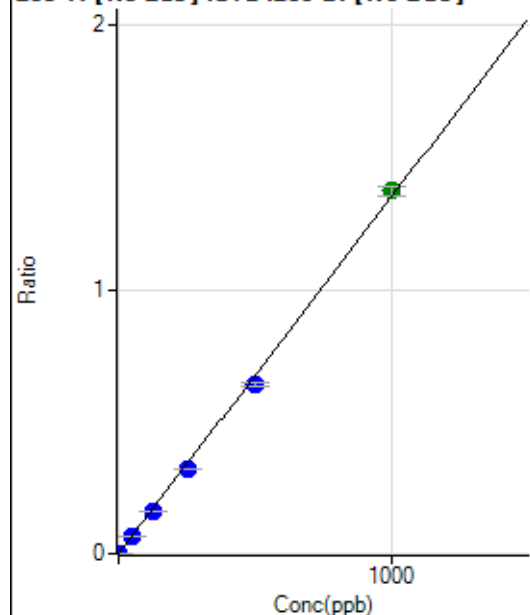
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			55.56		P	31.2
2	☐			55.56		P	22.9
3	☐			33.33		P	90.1
4	☐			72.23		P	26.7
5	☐			75.00		P	22.2
6	☐			119.45		P	34.4
7	☐			186.11		P	33.6
8	☐			286.12		P	10.2

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	30.0
2	☐			33.33		P	88.9
3	☐			31.11		P	22.3
4	☐			50.00		P	43.7
5	☐			47.78		P	10.7
6	☐			48.89		P	21.9
7	☐			104.45		P	36.7
8	☐			144.45		P	3.5

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	336.12	0.0001	P	13.8
2	☐	1.000	0.889	8564.07	0.0013	P	2.9
3	☐	50.000	47.045	430336.69	0.0636	P	0.8
4	☐	125.000	119.374	1069656.54	0.1613	P	0.2
5	☐	250.000	238.560	2110642.32	0.3223	P	0.6
6	☐	500.000	474.209	4108134.34	0.6407	P	2.0
7	☐	1000.000	1016.607	8498729.01	1.3735	A	2.6
8	☐			3311.64	0.0006	P	16.8

$$y = 0.0014 * x + 5.2518E-005$$

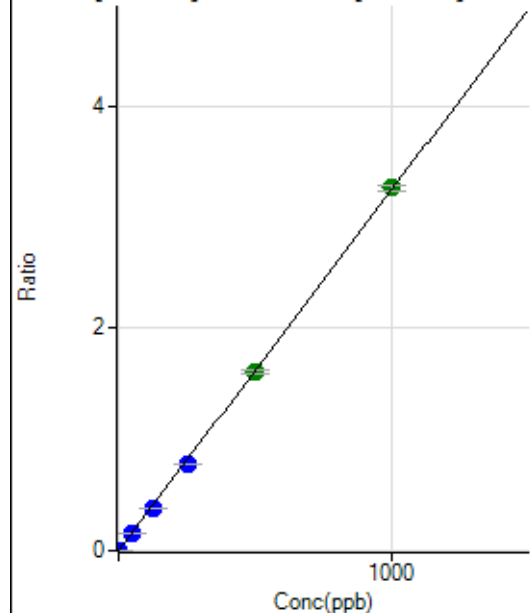
$$R = 0.9994$$

$$DL = 0.01605$$

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	908.39	0.0001	P	3.9
2	☐	1.000	0.875	20385.48	0.0030	P	2.3
3	☐	50.000	46.891	1030331.34	0.1523	P	1.2
4	☐	125.000	118.938	2559998.41	0.3861	P	0.3
5	☐	250.000	238.382	5065755.58	0.7737	P	0.6
6	☐	500.000	496.990	10341012.30	1.6128	A	2.5
7	☐	1000.000	1005.323	20189645.94	3.2623	A	1.7
8	☐			7874.81	0.0014	P	9.7

$$y = 0.0032 * x + 1.4216E-004$$

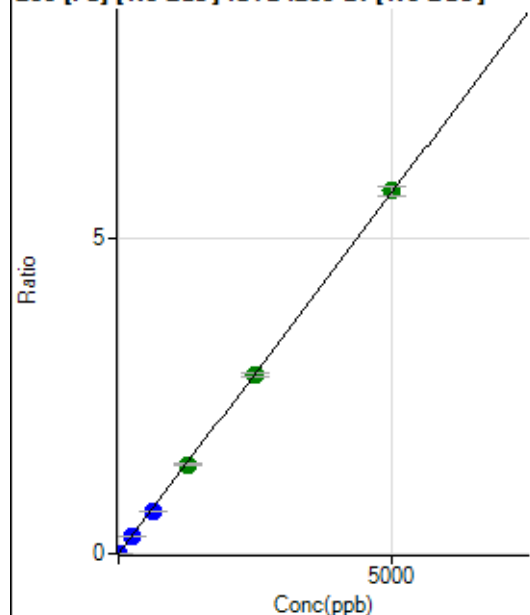
$$R = 0.9999$$

$$DL = 0.005154$$

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	1303.79	0.0002	P	18.5
2	☐	1.000	0.901	8423.19	0.0012	P	6.5
3	☐	250.000	228.532	1769199.08	0.2615	P	1.7
4	☐	625.000	580.225	4400590.14	0.6637	P	0.1
5	☐	1250.000	1235.211	9249478.21	1.4126	A	0.9
6	☐	2500.000	2469.134	18104517.76	2.8236	A	2.3
7	☐	5000.000	5025.800	35562418.85	5.7471	A	2.4
8	☐			12459.71	0.0022	P	4.0

$$y = 0.0011 * x + 2.0359E-004$$

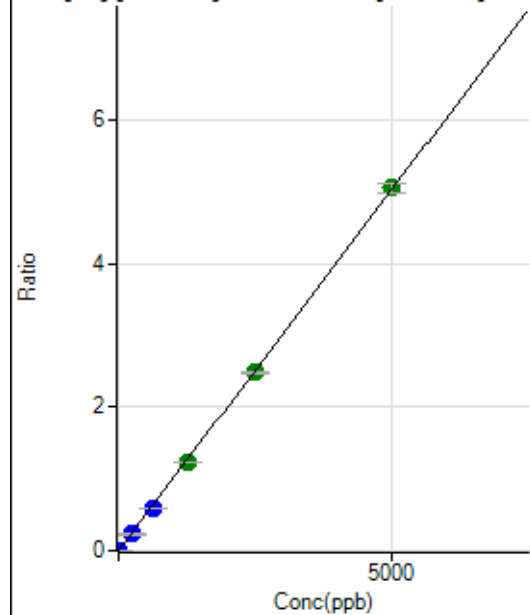
$$R = 0.9999$$

$$DL = 0.09859$$

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	1153.78	0.0002	P	1.0
2	☐	1.000	0.883	7292.89	0.0011	P	8.1
3	☐	250.000	228.022	1552799.22	0.2295	P	1.6
4	☐	625.000	576.895	3848557.87	0.5804	P	0.8
5	☐	1250.000	1237.421	8150802.67	1.2448	A	0.1
6	☐	2500.000	2465.547	15903109.50	2.4801	A	1.5
7	☐	5000.000	5027.483	31292041.67	5.0570	A	2.4
8	☐			11280.84	0.0020	P	3.8

$$y = 0.0010 * x + 1.8061E-004$$

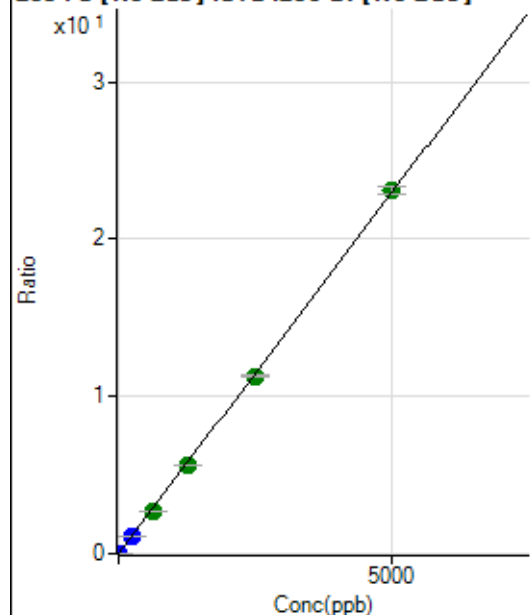
$$R = 0.9999$$

$$DL = 0.005524$$

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	5274.60	0.0008	P	13.1
2	☐	1.000	0.883	33287.20	0.0049	P	6.6
3	☐	250.000	228.454	7095462.28	1.0488	P	1.4
4	☐	625.000	597.198	18170163.05	2.7404	A	0.7
5	☐	1250.000	1233.424	37054101.23	5.6591	A	0.0
6	☐	2500.000	2461.841	72421359.60	11.2943	A	1.6
7	☐	5000.000	5027.776	142734162.2	23.0653	A	2.2
8	☐			50809.01	0.0090	P	2.7

$$y = 0.0046 * x + 8.2418E-004$$

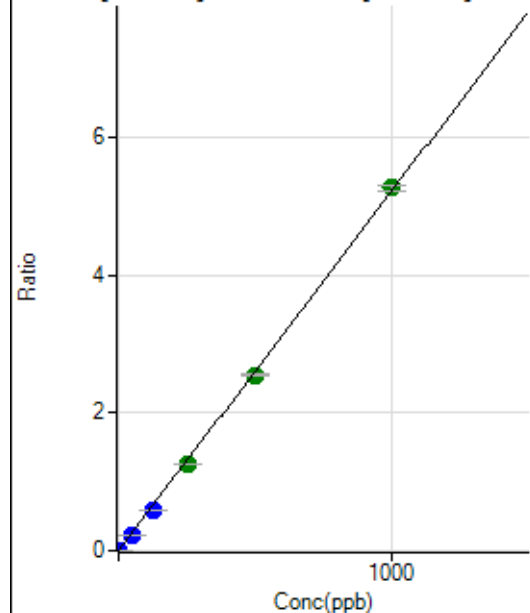
$$R = 0.9999$$

$$DL = 0.07064$$

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	211.12	0.0000	P	23.9
2	☐	1.000	0.001	259.27	0.0000	P	3.0
3	☐	50.000	43.550	1537301.06	0.2272	P	1.3
4	☐	125.000	112.017	3875149.16	0.5844	P	0.1
5	☐	250.000	240.036	8200037.39	1.2523	A	0.9
6	☐	500.000	489.072	16360994.46	2.5516	A	1.9
7	☐	1000.000	1009.902	32606305.59	5.2688	A	1.8
8	☐			3213.42	0.0006	P	11.6

$$y = 0.0052 * x + 3.2980E-005$$

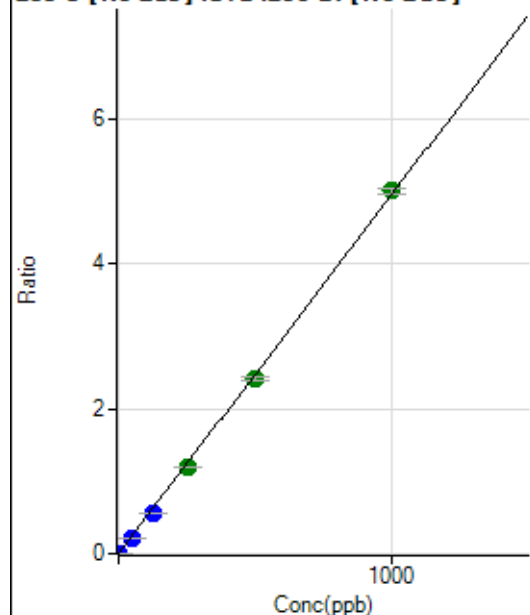
$$R = 0.9998$$

$$DL = 0.004532$$

Weight: <None>

Min Conc: 0

238 U [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0000	P	23.0
2	☐	1.000	0.795	26903.40	0.0039	P	4.7
3	☐	50.000	44.474	1487522.54	0.2199	P	1.2
4	☐	125.000	113.997	3736882.51	0.5636	P	0.9
5	☐	250.000	239.964	7768045.92	1.1864	A	0.8
6	☐	500.000	485.878	15402421.88	2.4021	A	2.1
7	☐	1000.000	1011.222	30944221.53	4.9994	A	1.6
8	☐			3550.59	0.0006	P	9.8

$$y = 0.0049 * x + 6.0740E-006$$

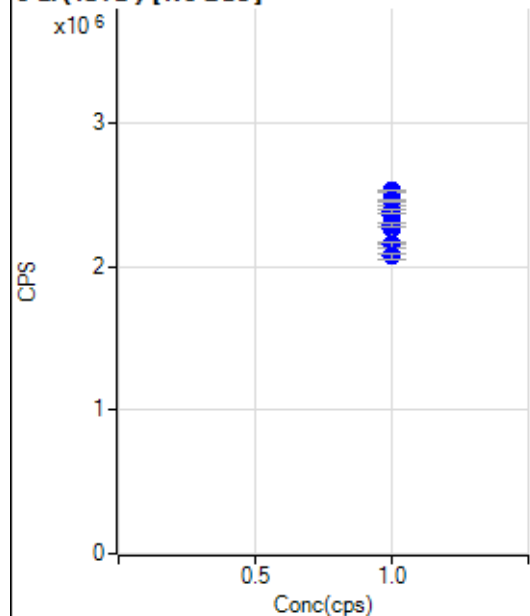
$$R = 0.9998$$

$$DL = 0.0008483$$

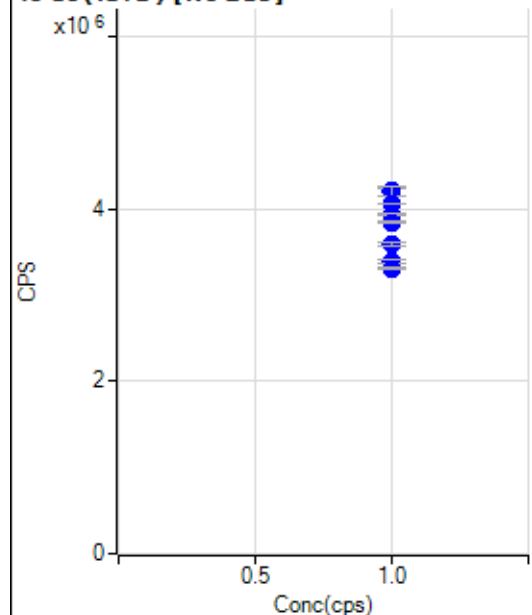
Weight: <None>

Min Conc: 0

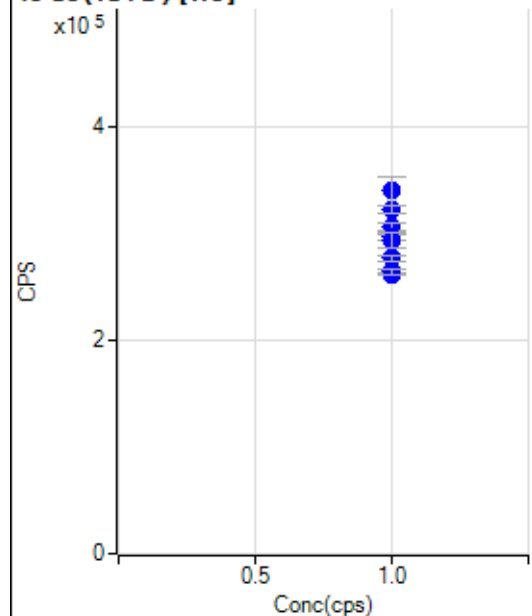
6 Li (ISTD) [No Gas]



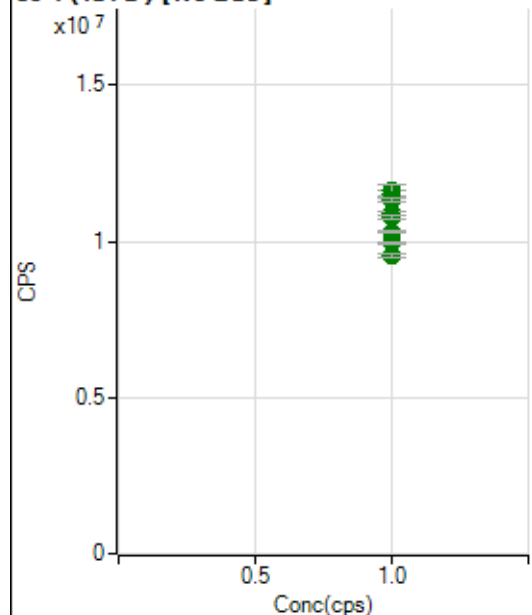
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2263660.42		P	9.0
2	☐	1.000		2352601.43		P	6.5
3	☐	1.000		2526846.28		P	0.4
4	☐	1.000		2459543.30		P	0.5
5	☐	1.000		2385916.51		P	0.9
6	☐	1.000		2294706.29		P	1.0
7	☐	1.000		2149833.02		P	2.1
8	☐	1.000		2075371.86		P	2.0

45 Sc (ISTD) [No Gas]

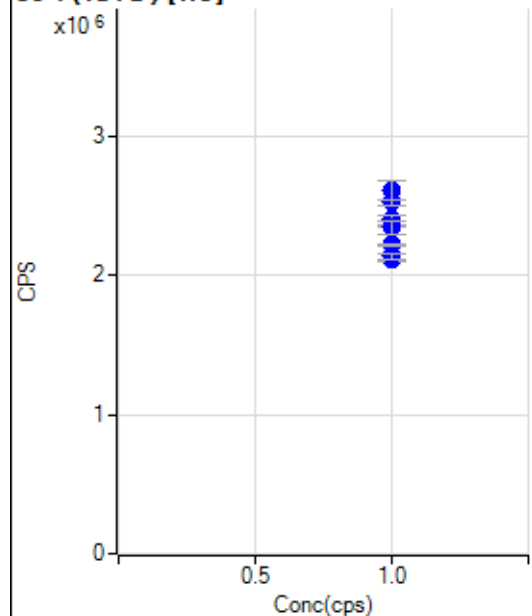
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4191084.10		P	2.6
2	☐	1.000		4206173.38		P	3.0
3	☐	1.000		4062596.88		P	0.0
4	☐	1.000		3927230.32		P	0.4
5	☐	1.000		3838215.60		P	0.4
6	☐	1.000		3595181.65		P	1.3
7	☐	1.000		3390021.34		P	1.2
8	☐	1.000		3310400.06		P	1.3

45 Sc (ISTD) [He]

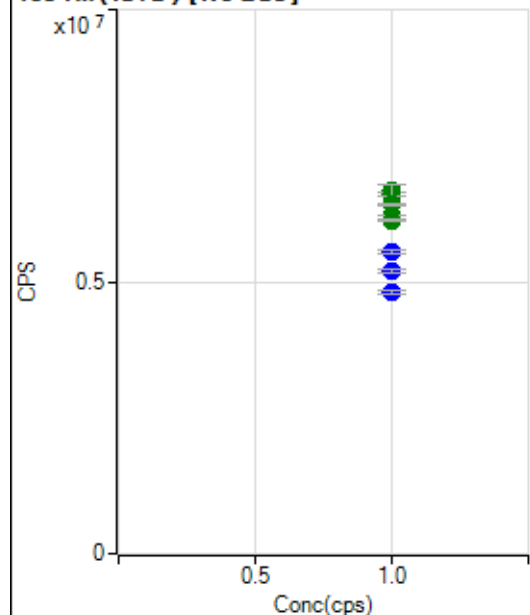
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		323199.94		P	2.2
2	☐	1.000		339741.00		P	7.6
3	☐	1.000		306018.86		P	2.1
4	☐	1.000		296394.71		P	1.6
5	☐	1.000		293830.32		P	4.9
6	☐	1.000		276664.28		P	1.5
7	☐	1.000		261463.68		P	0.7
8	☐	1.000		264039.34		P	2.0

89 Y (ISTD) [No Gas]

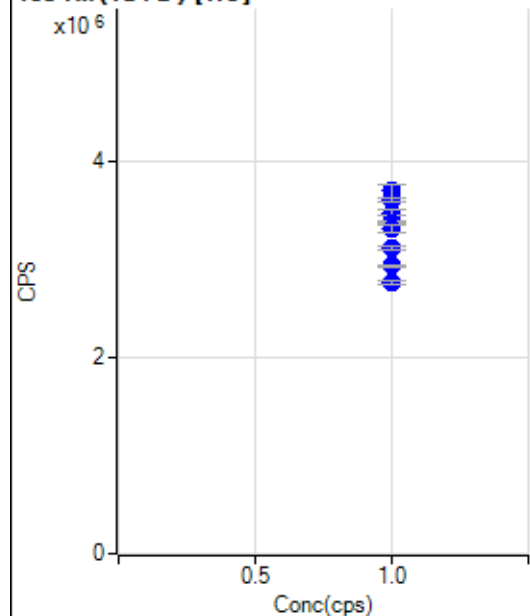
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11520313.44		A	2.3
2	☐	1.000		11615924.83		A	3.3
3	☐	1.000		11304920.66		A	1.0
4	☐	1.000		10890730.25		A	0.8
5	☐	1.000		10777545.32		A	0.6
6	☐	1.000		10302222.62		A	0.8
7	☐	1.000		9947529.16		A	0.4
8	☐	1.000		9546581.53		A	1.0

89 Y (ISTD) [He]

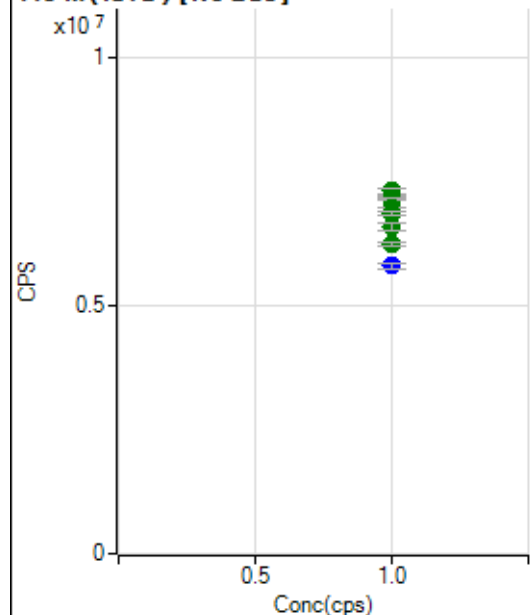
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2529043.00		P	1.7
2	☐	1.000		2611106.99		P	5.2
3	☐	1.000		2413229.30		P	2.0
4	☐	1.000		2359590.00		P	0.4
5	☐	1.000		2346229.17		P	3.9
6	☐	1.000		2221438.35		P	1.1
7	☐	1.000		2111249.22		P	0.9
8	☐	1.000		2143644.14		P	2.0

103 Rh (ISTD) [No Gas]

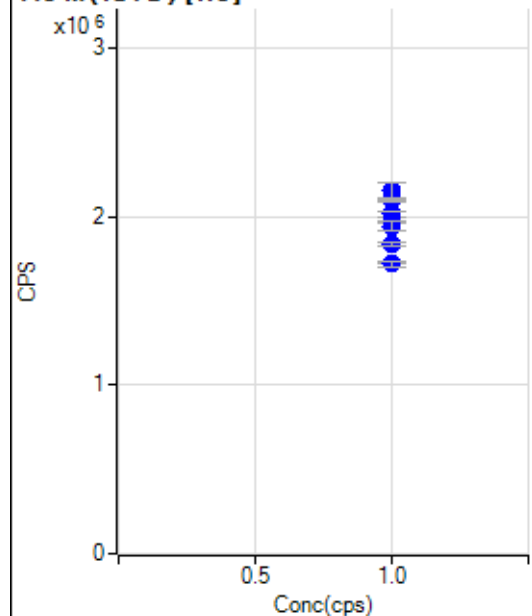
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6605529.42		A	1.3
2	☐	1.000		6672510.18		A	3.0
3	☐	1.000		6419384.00		A	0.5
4	☐	1.000		6224327.96		A	0.5
5	☐	1.000		6123461.09		A	0.4
6	☐	1.000		5562947.70		P	1.0
7	☐	1.000		5189115.65		P	1.3
8	☐	1.000		4806003.09		P	1.9

103 Rh (ISTD) [He]

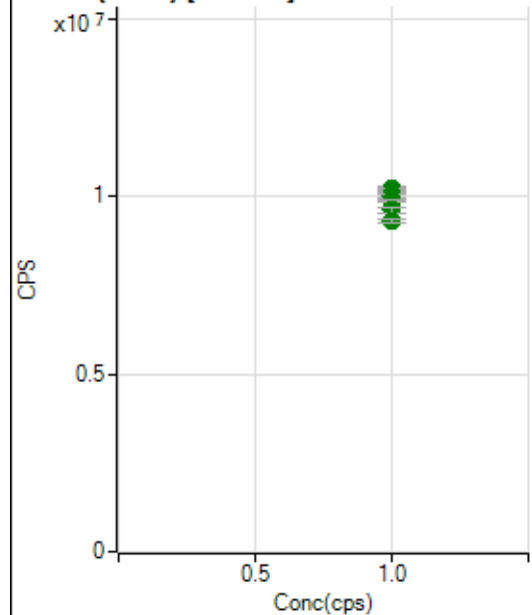
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3605709.60		P	1.1
2	☐	1.000		3702365.43		P	4.0
3	☐	1.000		3481173.94		P	1.5
4	☐	1.000		3383595.47		P	0.6
5	☐	1.000		3318292.90		P	2.7
6	☐	1.000		3119798.28		P	1.2
7	☐	1.000		2940838.08		P	0.5
8	☐	1.000		2765084.20		P	1.3

115 In (ISTD) [No Gas]

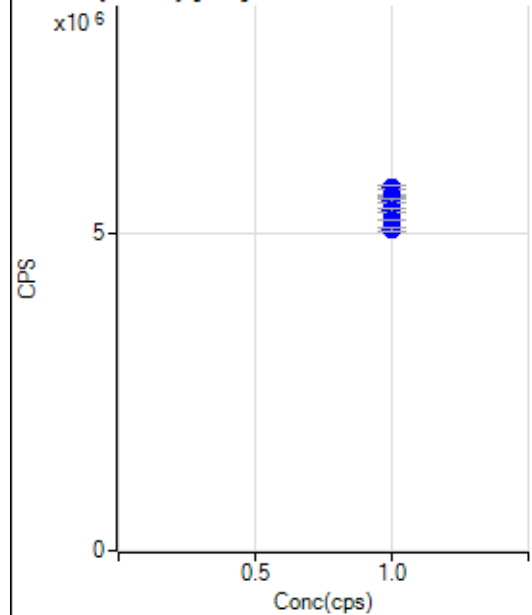
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7184140.97		A	0.4
2	☐	1.000		7308864.18		A	1.7
3	☐	1.000		7152500.58		A	0.6
4	☐	1.000		6971051.99		A	0.2
5	☐	1.000		6858060.75		A	1.1
6	☐	1.000		6592275.09		A	2.0
7	☐	1.000		6239547.95		A	1.5
8	☐	1.000		5802946.02		P	1.9

115 In (ISTD) [He]

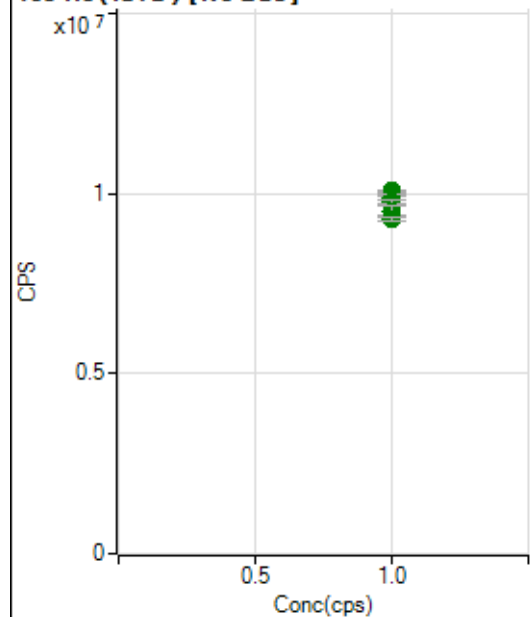
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2091854.97		P	1.0
2	☐	1.000		2150513.29		P	4.1
3	☐	1.000		2014316.94		P	1.4
4	☐	1.000		1969556.30		P	0.4
5	☐	1.000		1940259.30		P	2.9
6	☐	1.000		1837060.95		P	0.9
7	☐	1.000		1724581.62		P	0.5
8	☐	1.000		1715512.81		P	1.4

159 Tb (ISTD) [No Gas]

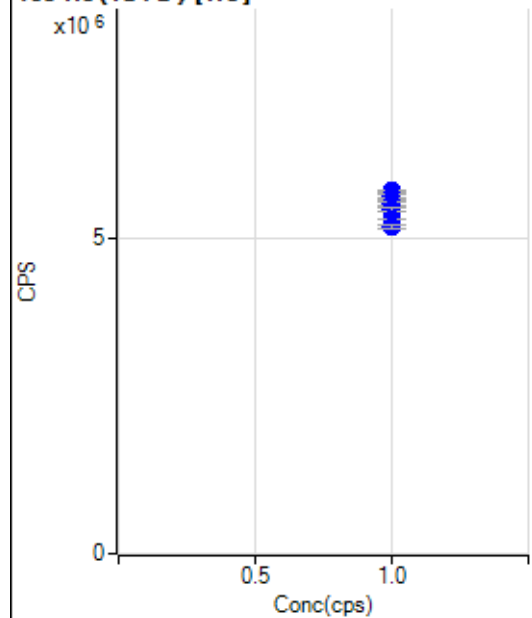
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9971214.85		A	1.6
2	☐	1.000		10199482.63		A	1.1
3	☐	1.000		10202251.23		A	0.5
4	☐	1.000		10081114.50		A	0.3
5	☐	1.000		9997699.16		A	1.3
6	☐	1.000		9883439.58		A	0.5
7	☐	1.000		9615675.27		A	1.6
8	☐	1.000		9302063.89		A	1.7

159 Tb (ISTD) [He]

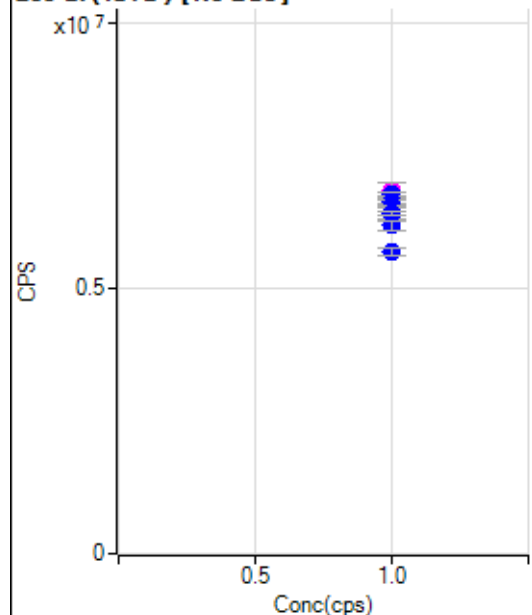
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5702457.34		P	0.3
2	☐	1.000		5730524.99		P	0.9
3	☐	1.000		5605343.74		P	0.8
4	☐	1.000		5547720.33		P	0.2
5	☐	1.000		5518177.52		P	1.1
6	☐	1.000		5372678.84		P	1.3
7	☐	1.000		5229134.30		P	0.2
8	☐	1.000		5075278.36		P	1.2

165 Ho (ISTD) [No Gas]

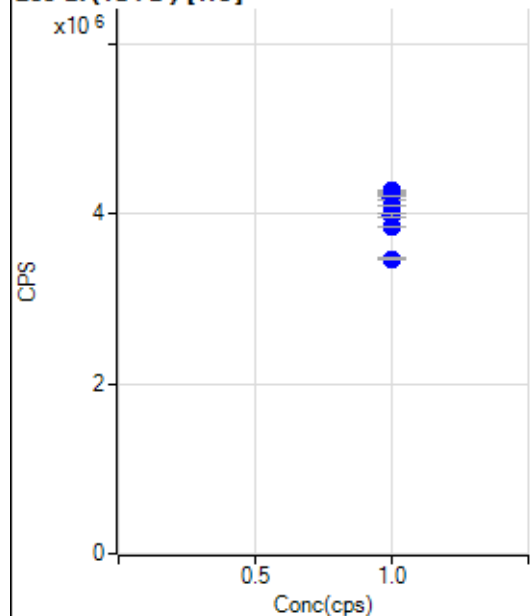
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9825405.62		A	2.2
2	☐	1.000		10017336.52		A	1.1
3	☐	1.000		10065156.51		A	0.4
4	☐	1.000		9952578.40		A	0.8
5	☐	1.000		9894554.65		A	1.9
6	☐	1.000		9743209.30		A	1.2
7	☐	1.000		9513527.99		A	2.6
8	☐	1.000		9282672.64		A	1.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5722378.04		P	0.0
2	☐	1.000		5767988.11		P	0.6
3	☐	1.000		5682468.73		P	0.8
4	☐	1.000		5637356.37		P	0.5
5	☐	1.000		5577048.11		P	1.1
6	☐	1.000		5470279.23		P	0.8
7	☐	1.000		5331032.94		P	0.1
8	☐	1.000		5198617.63		P	1.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6387432.27		P	2.3
2	☐	1.000		6838994.76		M	4.4
3	☐	1.000		6765801.63		P	1.1
4	☐	1.000		6630593.79		P	0.8
5	☐	1.000		6547758.16		P	0.6
6	☐	1.000		6412936.50		P	1.2
7	☐	1.000		6190795.12		P	3.0
8	☐	1.000		5675278.11		P	2.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4264633.06		P	0.2
2	☐	1.000		4267856.12		P	0.3
3	☐	1.000		4225685.21		P	0.4
4	☐	1.000		4180047.47		P	1.0
5	☐	1.000		4093733.37		P	0.4
6	☐	1.000		3982455.57		P	1.2
7	☐	1.000		3847299.08		P	0.3
8	☐	1.000		3468625.40		P	0.8

US EPA Tune Check Sample Report

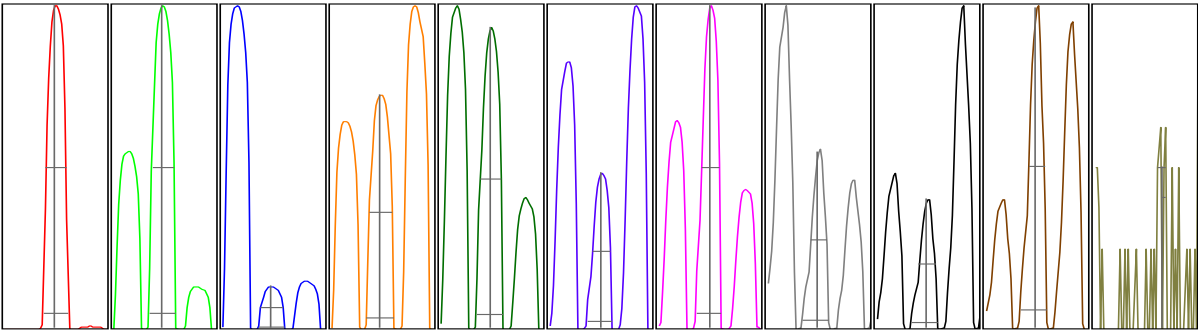
Batch Folder C:\Agilent\ICPMH\1\DATA\P7092521-MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	6792	0.51	5.00	
24	63176	0.48	5.00	
25	8293	0.52	5.00	
26	9571	0.28	5.00	
59	14188	0.67	5.00	
113	9095	0.70	5.00	
115	29072	2.15	5.00	
206	13311	0.50	5.00	
207	11313	0.84	5.00	
208	27701	0.69	5.00	
220	0	71.26		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	6742	6816	6799	6829	6775
24	63464	63485	63096	63084	62751
25	8283	8348	8303	8230	8302
26	9591	9596	9581	9552	9533
59	14190	14244	14302	14155	14050
113	9180	9121	9100	9069	9007
115	29917	29495	28927	28600	28422
206	13305	13411	13325	13227	13287
207	11376	11442	11231	11299	11218
208	27762	27942	27549	27786	27465
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	11715	9.00	8.9 - 9.1		0.738	0.900	
24	101904	23.95	23.9 - 24.1		0.784	0.900	
25	13443	24.95	24.9 - 25.1		0.767	0.900	
26	15165	25.95	25.9 - 26.1		0.790	0.900	
59	24103	59.00	58.9 - 59.1		0.782	0.900	
113	16903	113.05	112.9 - 113.1		0.738	0.900	
115	54518	115.05	114.9 - 115.1		0.737	0.900	
206	27774	206.00	205.9 - 206.1		0.769	0.900	
207	23442	207.00	206.9 - 207.1		0.775	0.900	
208	57968	208.00	207.9 - 208.1		0.774	0.900	
220	0	220.50	-		0.210		

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	0.72	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		0.42 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.5	V	Deflect	13.8	V
Extract 2	-125.0	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	170	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	4760	1.72	
89	27274	1.59	
205	14575	0.58	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	4760	4669	4773	4886	4711
89	27373	26922	27227	27961	26889
205	14475	14539	14650	14539	14674

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.72	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		0.42 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.4	V	Deflect	0.8	V
Extract 2	-155.0	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			