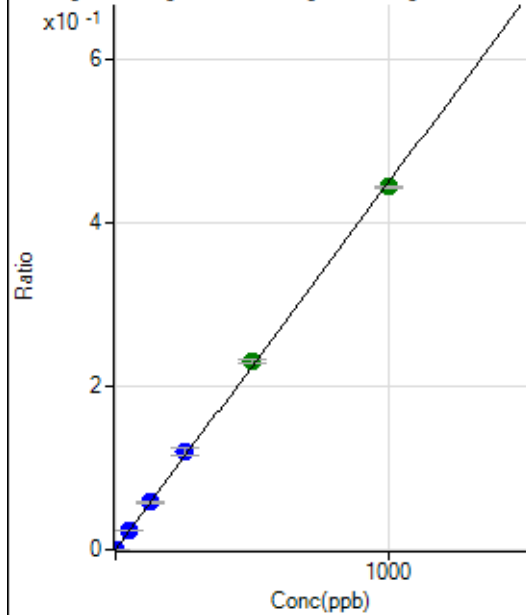


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8080522 MS.b\
Analysis File: P8080522 MS.batch.bin
DA Date-Time: 2022-08-05 19:00:39
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	006CALB.d	S00	2022-08-05 16:56:32
2	008CALS.d	S02	2022-08-05 17:02:50
3	009CALS.d	S03	2022-08-05 17:05:58
4	010CALS.d	S04	2022-08-05 17:09:06
5	011CALS.d	S05	2022-08-05 17:12:12
6	012CALS.d	S06	2022-08-05 17:15:21
7	013CALS.d	S07	2022-08-05 17:18:28
8	014CALS.d	S08	2022-08-05 17:21:37

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.00	0.0000	P	27.6
2	☐	1.000	1.079	3349.56	0.0005	P	0.7
3	☐	50.000	52.956	162714.80	0.0238	P	1.4
4	☐	125.000	128.593	395476.70	0.0577	P	2.1
5	☐	250.000	267.174	774575.36	0.1198	P	6.3
6	☐	500.000	514.112	1508213.95	0.2306	A	1.6
7	☐	1000.000	988.053	2860482.31	0.4431	A	0.5
8	☐			370.79	0.0001	P	9.7

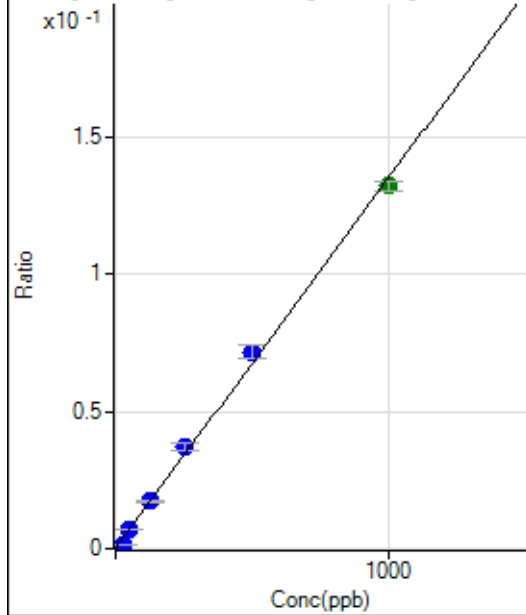
$$y = 4.4847\text{E-}004 * x + 4.3696\text{E-}006$$

$$R = 0.9997$$

$$DL = 0.008055$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	459.92	0.0001	P	15.4
2	☐	25.000	11.990	11574.30	0.0017	P	4.3
3	☐	50.000	51.859	48472.34	0.0071	P	6.9
4	☐	125.000	127.569	118725.05	0.0173	P	3.4
5	☐	250.000	276.105	241666.89	0.0374	P	6.9
6	☐	500.000	529.753	468746.21	0.0717	P	6.7
7	☐	1000.000	978.509	854428.18	0.1323	A	2.9
8	☐			75548.56	0.0124	P	9.4

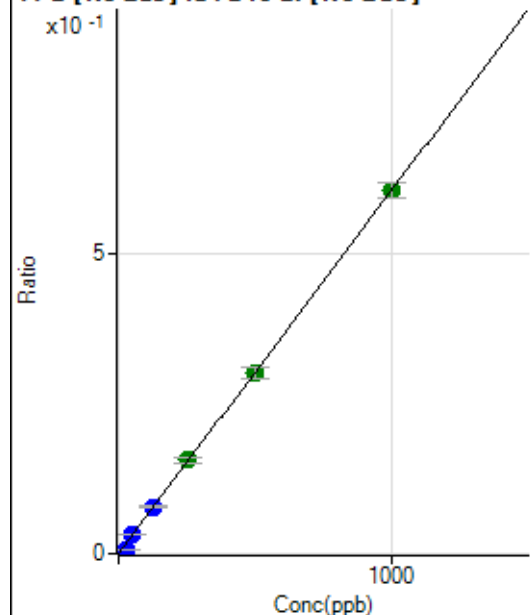
$$y = 1.3518\text{E-}004 * x + 6.6692\text{E-}005$$

$$R = 0.9987$$

$$DL = 0.2278$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2071.74	0.0003	P	6.5
2	☐	25.000	12.123	52453.79	0.0076	P	6.9
3	☐	50.000	52.196	218754.57	0.0319	P	6.5
4	☐	125.000	128.808	537422.19	0.0784	P	3.9
5	☐	250.000	257.381	1010254.62	0.1563	A	6.4
6	☐	500.000	497.562	1973440.10	0.3018	A	6.9
7	☐	1000.000	999.110	3911219.71	0.6058	A	4.1
8	☐			343018.91	0.0564	P	9.5

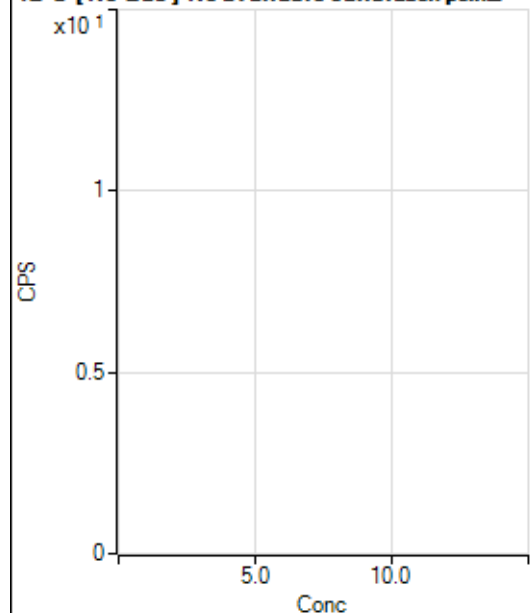
$$y = 6.0601\text{E-}004 * x + 3.0090\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.09621$$

Weight: <None>

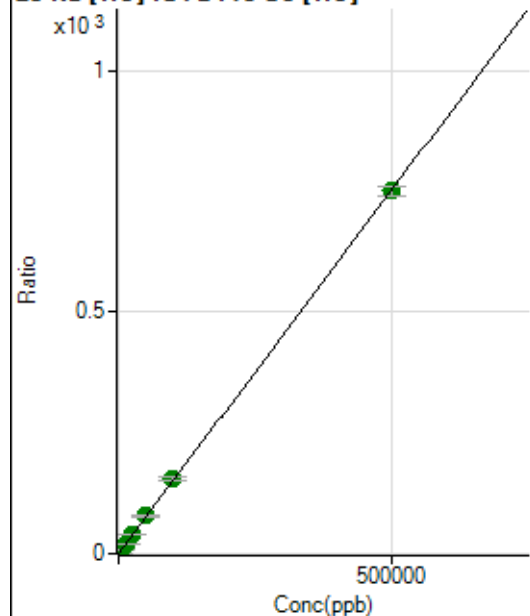
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4865743.82		A	0.8
2	☐			4743594.07		A	1.2
3	☐			5506874.08		A	2.9
4	☐			5719452.65		A	2.9
5	☐			6066951.70		A	3.0
6	☐			6474560.34		A	3.4
7	☐			7093446.08		A	2.9
8	☐			6722325.11		A	3.4

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			62963.17		P	0.2
2	☐			61088.70		P	0.7
3	☐			75011.06		P	1.2
4	☐			79227.45		P	0.3
5	☐			84484.66		P	2.0
6	☐			91257.77		P	0.1
7	☐			101200.85		P	0.0
8	☐			97607.23		P	1.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	17480.26	0.0713	P	1.2
2	☐	500.000	484.319	193614.55	0.8003	P	0.8
3	☐	5000.000	5241.611	1933135.31	7.9611	A	2.7
4	☐	12500.000	13210.621	4710651.71	19.9560	A	3.6
5	☐	25000.000	26034.904	9075166.52	39.2592	A	2.1
6	☐	50000.000	51631.543	18059790.51	77.7874	A	0.8
7	☐	100000.00	102910.63	35992607.75	154.9730	A	3.7
8	☐	500000.00	499182.80	166655802.3	751.4441	A	2.5

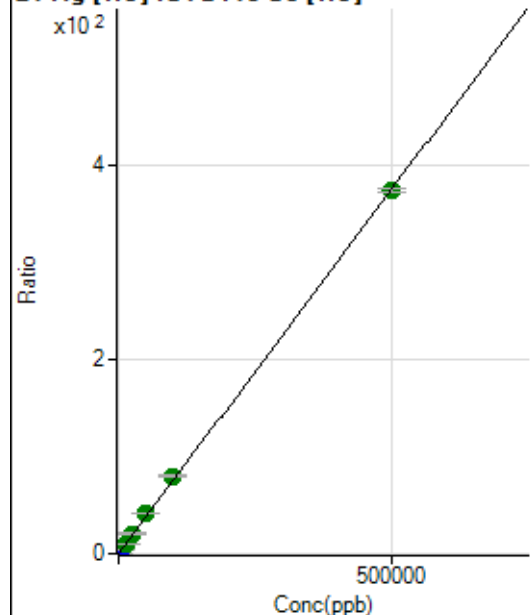
$$y = 0.0015 * x + 0.0713$$

$$R = 1.0000$$

$$DL = 1.681$$

Weight: <None>

Min Conc: 0

24 Mg [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	266.68	0.0011	P	14.2
2	☐	500.000	527.018	96010.47	0.3969	P	1.5
3	☐	5000.000	5352.123	976245.34	4.0207	P	2.8
4	☐	12500.000	14107.993	2501241.20	10.5967	A	4.7
5	☐	25000.000	27643.121	4799351.67	20.7620	A	2.8
6	☐	50000.000	54450.089	9493728.16	40.8949	A	0.7
7	☐	100000.00	106413.49	18565434.79	79.9212	A	3.0
8	☐	500000.00	498096.38	82957953.94	374.0881	A	1.2

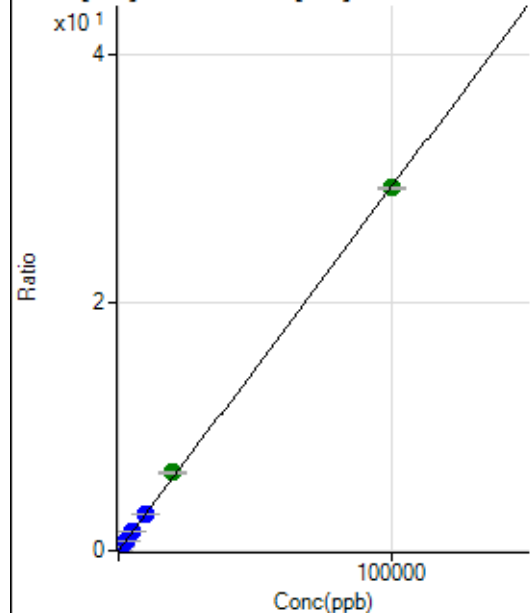
$$y = 7.5103\text{E-}004 * x + 0.0011$$

$$R = 0.9999$$

$$DL = 0.6156$$

Weight: <None>

Min Conc: 0

27 Al [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	107.91	0.0004	P	10.9
2	☐	20.000	19.185	1466.57	0.0061	P	2.9
3	☐	1000.000	1017.580	72518.83	0.2987	P	2.0
4	☐	2500.000	2572.606	178098.57	0.7544	P	2.3
5	☐	5000.000	5154.171	349291.84	1.5110	P	1.9
6	☐	10000.000	10159.054	691326.67	2.9779	P	1.1
7	☐	20000.000	21411.799	1457822.30	6.2759	A	4.7
8	☐	100000.00	99692.035	6479548.87	29.2185	A	0.5

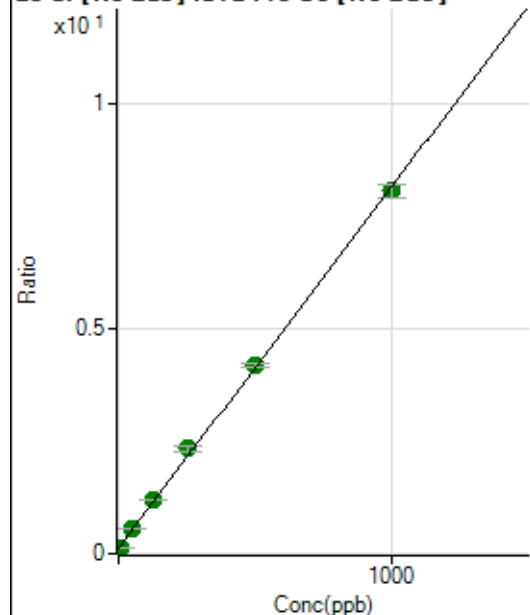
$$y = 2.9308\text{E-}004 * x + 4.4060\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.491$$

Weight: <None>

Min Conc: 0

28 Si [No Gas] ISTD :45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	898509.12	0.1205	A	1.3
2	☐	10.000	1.502	974752.31	0.1326	A	0.9
3	☐	50.000	54.523	4117546.84	0.5579	A	0.4
4	☐	125.000	133.393	8761329.62	1.1907	A	1.9
5	☐	250.000	276.037	16321468.94	2.3351	A	5.1
6	☐	500.000	506.214	30004695.12	4.1818	A	2.0
7	☐	1000.000	989.193	56687074.88	8.0567	A	3.6
8	☐			2354913.44	0.3452	A	3.1

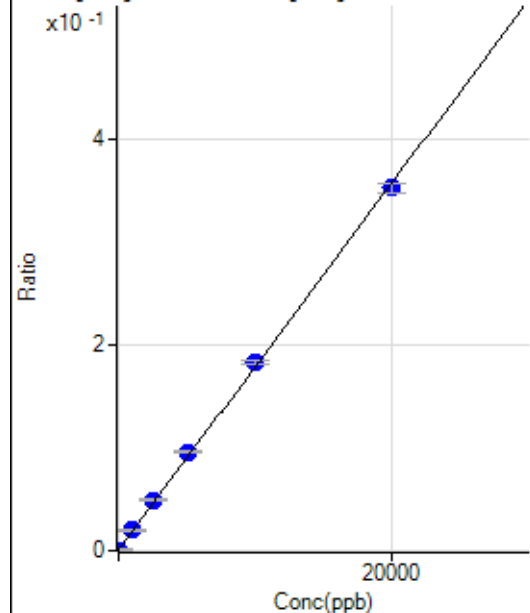
$$y = 0.0080 * x + 0.1205$$

$$R = 0.9995$$

$$DL = 0.5904$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-5.723	169.45	0.0007	P	21.9
2	☐	0.000	5.723	216.68	0.0009	P	13.4
3	☐	1000.000	1060.977	4778.69	0.0197	P	5.1
4	☐	2500.000	2710.742	11577.16	0.0490	P	3.5
5	☐	5000.000	5358.082	22228.70	0.0962	P	2.2
6	☐	10000.000	10247.100	42526.95	0.1832	P	1.6
7	☐	20000.000	19757.538	81867.78	0.3525	P	2.8
8	☐			191.67	0.0009	P	28.1

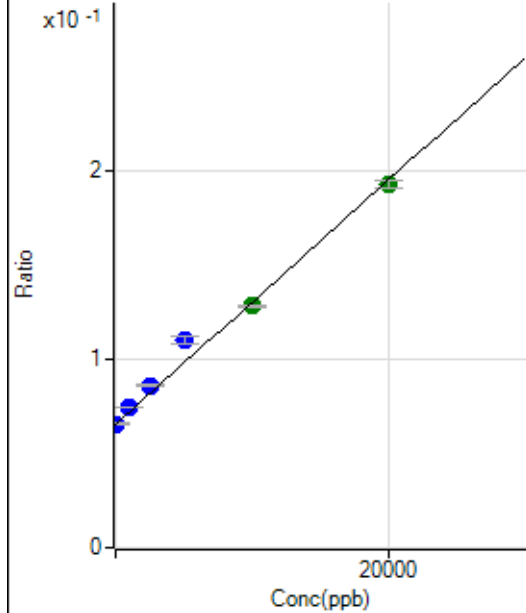
$$y = 1.7799E-005 * x + 7.9339E-004$$

$$R = 0.9997$$

$$DL = 22.86$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-30.010	487644.33	0.0654	P	0.9
2	☐	0.000	30.010	483816.51	0.0658	P	1.5
3	☐	1000.000	1381.674	550444.59	0.0746	P	0.5
4	☐	2500.000	3182.238	635124.77	0.0863	P	0.8
5	☐	5000.000	6924.265	773697.22	0.1107	P	4.2
6	☐	10000.000	9685.999	922974.62	0.1286	A	0.6
7	☐	20000.000	19571.571	1357982.57	0.1930	A	2.2
8	☐			397692.02	0.0583	P	1.0

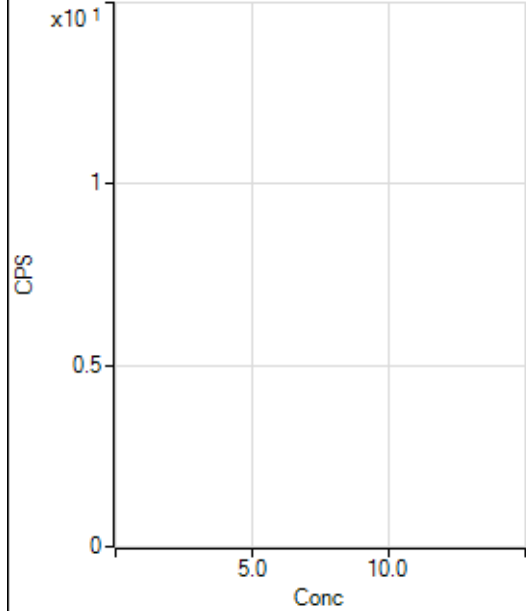
$$y = 6.5079\text{E-}006 * x + 0.0656$$

$$R = 0.9943$$

$$DL = 361.6$$

Weight: <None>

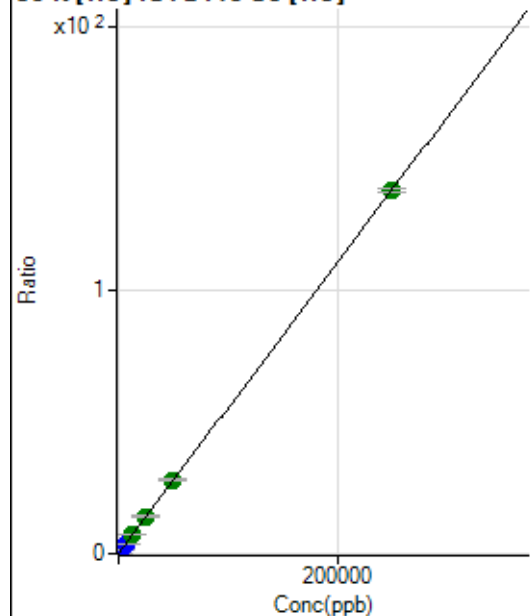
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			336024.85		P	0.4
2	☐			299357.44		P	1.0
3	☐			318872.99		P	0.2
4	☐			310131.92		P	0.6
5	☐			301383.40		P	0.9
6	☐			295818.71		P	0.8
7	☐			290966.53		P	1.1
8	☐			270292.59		P	0.7

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2386.37		P	3.4
2	☐			2250.23		P	6.3
3	☐			2308.57		P	5.1
4	☐			2119.66		P	4.8
5	☐			2075.21		P	6.9
6	☐			2083.54		P	7.4
7	☐			2108.55		P	10.7
8	☐			1989.07		P	5.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22762.90	0.0929	P	1.4
2	☐	500.000	478.284	86120.80	0.3560	P	2.2
3	☐	2500.000	2495.195	355756.29	1.4652	P	0.7
4	☐	6250.000	6302.256	840210.79	3.5590	P	1.7
5	☐	12500.000	12960.699	1669207.02	7.2211	A	1.4
6	☐	25000.000	25446.364	3270414.77	14.0879	A	1.7
7	☐	50000.000	50779.573	6509279.18	28.0207	A	1.4
8	☐	250000.00	249775.19	30486548.25	137.4647	A	1.1

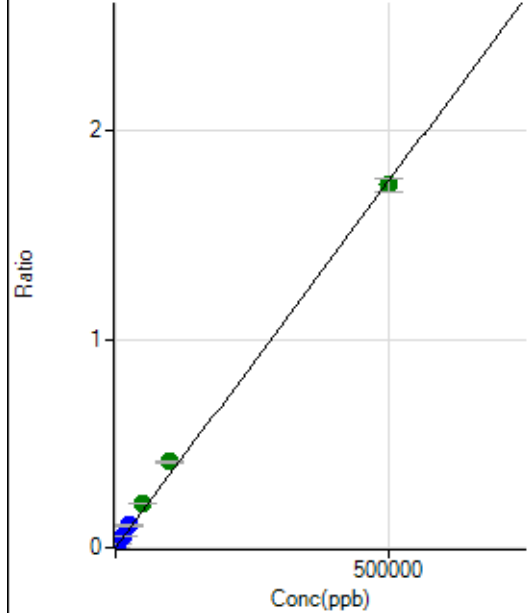
$$y = 5.4998\text{E-}004 * x + 0.0929$$

$$R = 1.0000$$

$$DL = 7.161$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	244.14	0.0000	P	5.1
2	☐	500.000	492.505	12972.56	0.0018	P	1.6
3	☐	5000.000	5872.532	152596.17	0.0207	P	1.0
4	☐	12500.000	14597.769	377865.93	0.0514	P	1.6
5	☐	25000.000	30268.292	743894.68	0.1064	P	5.7
6	☐	50000.000	60383.904	1523455.46	0.2123	A	1.6
7	☐	100000.00	117583.35	2909256.06	0.4134	A	2.4
8	☐	500000.00	495120.36	11874042.22	1.7407	A	3.6

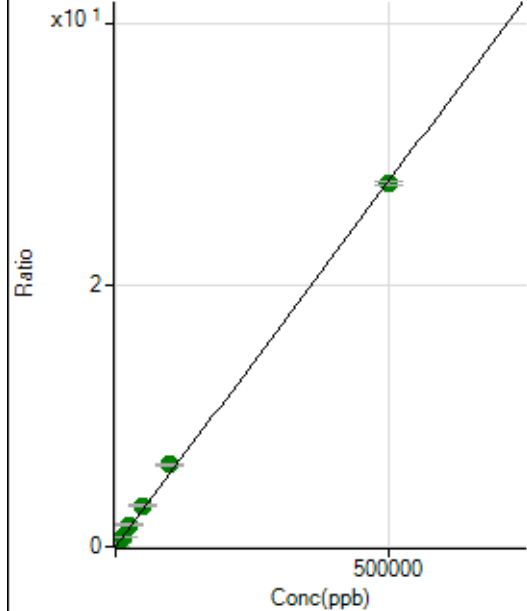
$$y = 3.5156\text{E-}006 * x + 3.2746\text{E-}005$$

$$R = 0.9992$$

$$DL = 1.429$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	10761.06	0.0014	P	1.4
2	☐	500.000	491.395	212548.44	0.0289	P	1.5
3	☐	5000.000	5763.148	2387743.83	0.3235	A	2.6
4	☐	12500.000	14277.336	5883044.26	0.7993	A	1.1
5	☐	25000.000	29755.552	11619217.62	1.6644	A	8.9
6	☐	50000.000	55794.964	22383653.54	3.1196	A	3.0
7	☐	100000.00	111953.65	44040117.56	6.2581	A	2.1
8	☐	500000.00	496739.93	189429919.9	27.7623	A	1.1

$$y = 5.5886\text{E-}005 * x + 0.0014$$

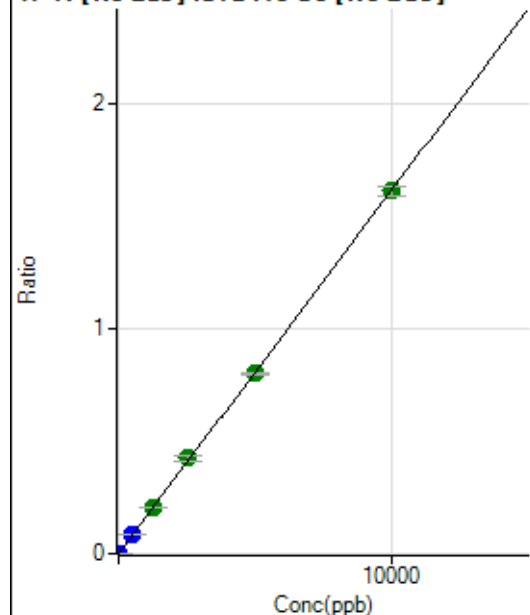
$$R = 0.9997$$

$$DL = 1.079$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	333.34	0.0000	P	13.2
2	☐	5.000	4.828	6054.24	0.0008	P	2.1
3	☐	500.000	506.758	603356.03	0.0818	P	1.2
4	☐	1250.000	1281.036	1520505.67	0.2066	A	0.5
5	☐	2500.000	2632.382	2966839.78	0.4245	A	5.6
6	☐	5000.000	4951.090	5728855.03	0.7985	A	0.9
7	☐	10000.000	9987.142	11333831.76	1.6106	A	2.4
8	☐			1302.87	0.0002	P	2.8

$$y = 1.6126E-004 * x + 4.4707E-005$$

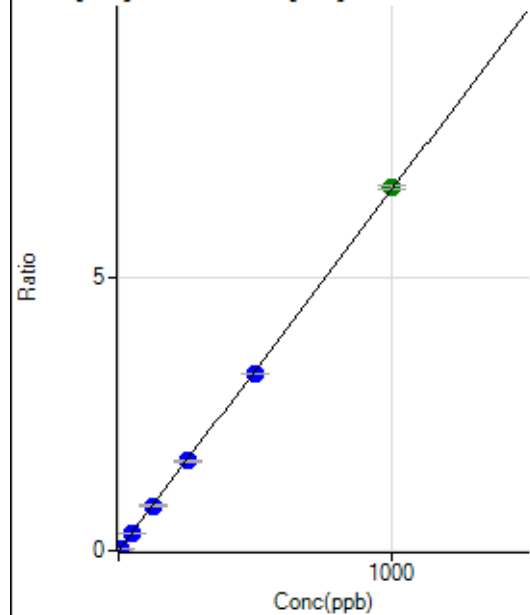
$$R = 0.9999$$

$$DL = 0.1101$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.22	0.0000	P	173.2
2	☐	5.000	4.766	7620.98	0.0315	P	0.5
3	☐	50.000	49.074	78750.10	0.3243	P	1.1
4	☐	125.000	124.583	194363.22	0.8233	P	2.7
5	☐	250.000	247.877	378677.12	1.6382	P	1.5
6	☐	500.000	490.132	751873.74	3.2392	P	0.9
7	☐	1000.000	1005.564	1543867.81	6.6455	A	1.2
8	☐			256.67	0.0012	P	16.9

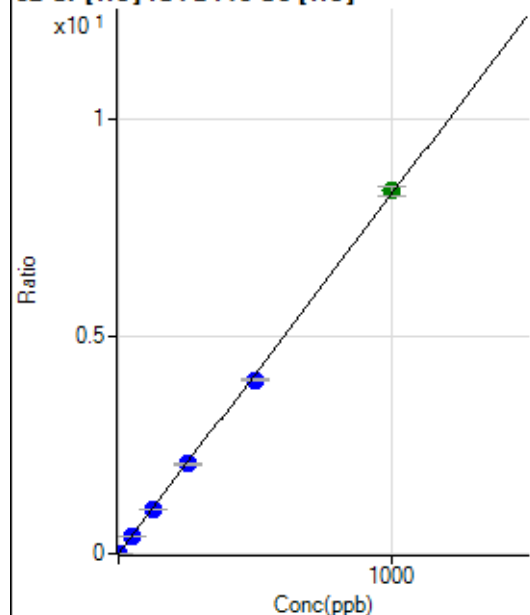
$$y = 0.0066 * x + 9.0169E-006$$

$$R = 0.9999$$

$$DL = 0.00709$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	598.91	0.0024	P	7.0
2	☐	2.000	1.817	4228.45	0.0175	P	2.3
3	☐	50.000	48.691	98431.25	0.4054	P	0.9
4	☐	125.000	122.642	240174.57	1.0174	P	2.1
5	☐	250.000	248.868	476638.97	2.0619	P	2.2
6	☐	500.000	483.143	928697.09	4.0007	P	0.7
7	☐	1000.000	1009.072	1940315.02	8.3530	A	2.6
8	☐			4292.91	0.0194	P	3.0

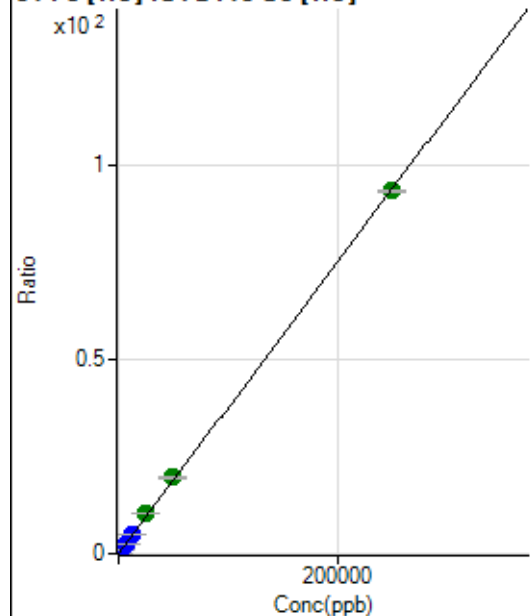
$$y = 0.0083 * x + 0.0024$$

$$R = 0.9998$$

$$DL = 0.062$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	948.19	0.0039	P	3.6
2	☐	50.000	50.581	5512.29	0.0228	P	6.4
3	☐	2500.000	2588.536	235919.09	0.9716	P	1.1
4	☐	6250.000	6481.545	572976.89	2.4271	P	1.9
5	☐	12500.000	12930.049	1118339.17	4.8379	P	2.2
6	☐	25000.000	27361.659	2375935.96	10.2334	A	1.3
7	☐	50000.000	52219.950	4535400.94	19.5270	A	3.2
8	☐	250000.00	249291.66	20669937.27	93.2050	A	0.4

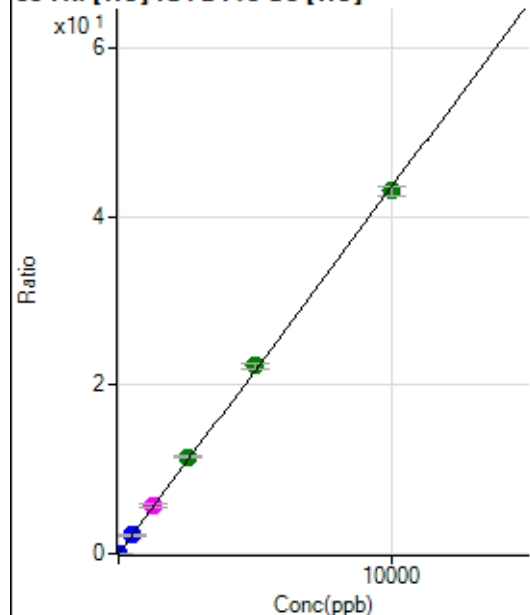
$$y = 3.7386E-004 * x + 0.0039$$

$$R = 0.9999$$

$$DL = 1.118$$

Weight: <None>

Min Conc: 0

⁵⁵Mn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	54.44	0.0002	P	23.8
2	☐	1.000	1.047	1155.61	0.0048	P	8.0
3	☐	500.000	499.598	527826.41	2.1739	P	1.0
4	☐	1250.000	1315.327	1351023.95	5.7229	M	5.7
5	☐	2500.000	2648.364	2663560.15	11.5226	A	1.9
6	☐	5000.000	5116.445	5166109.89	22.2606	A	2.8
7	☐	10000.000	9896.540	10001804.57	43.0576	A	2.6
8	☐			4684.15	0.0211	P	1.7

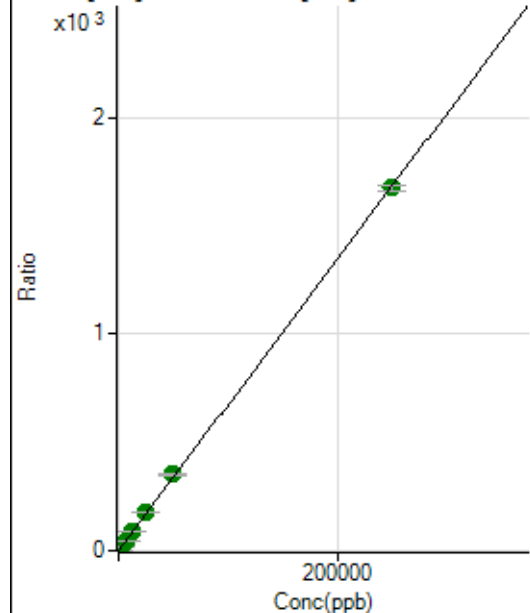
$$y = 0.0044 * x + 2.2245E-004$$

$$R = 0.9998$$

$$DL = 0.03648$$

Weight: <None>

Min Conc: 0

⁵⁶Fe [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4674.92	0.0191	P	3.5
2	☐	50.000	48.724	83797.26	0.3464	P	1.0
3	☐	2500.000	2752.955	4495040.90	18.5135	A	1.6
4	☐	6250.000	6725.920	10671661.81	45.2040	A	1.7
5	☐	12500.000	13595.004	21116614.13	91.3507	A	1.8
6	☐	25000.000	26443.656	41242119.44	177.6684	A	1.0
7	☐	50000.000	52430.312	81821844.42	352.2476	A	3.2
8	☐	250000.00	249300.39	371393178.6	1,674.826	A	1.3

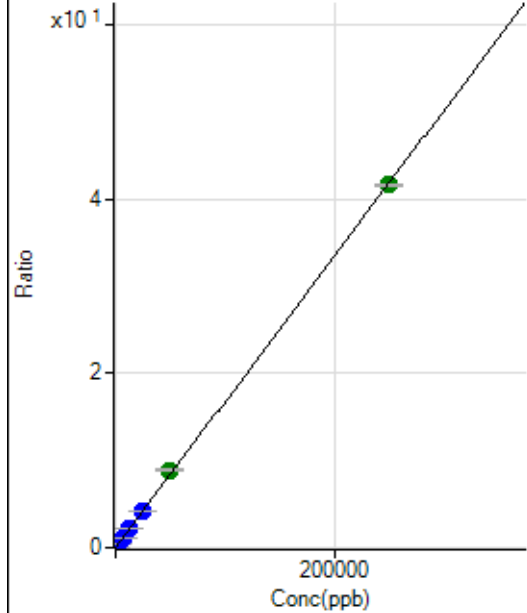
$$y = 0.0067 * x + 0.0191$$

$$R = 0.9999$$

$$DL = 0.2941$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	194.45	0.0008	P	13.9
2	☐	50.000	49.925	2207.61	0.0091	P	5.1
3	☐	2500.000	2579.220	104707.45	0.4312	P	1.2
4	☐	6250.000	6437.051	253779.94	1.0751	P	2.8
5	☐	12500.000	12892.104	497534.86	2.1523	P	1.9
6	☐	25000.000	25306.619	980419.68	4.2242	P	1.7
7	☐	50000.000	53316.167	2066882.14	8.8987	A	3.1
8	☐	250000.00	249281.03	9226411.43	41.6030	A	0.8

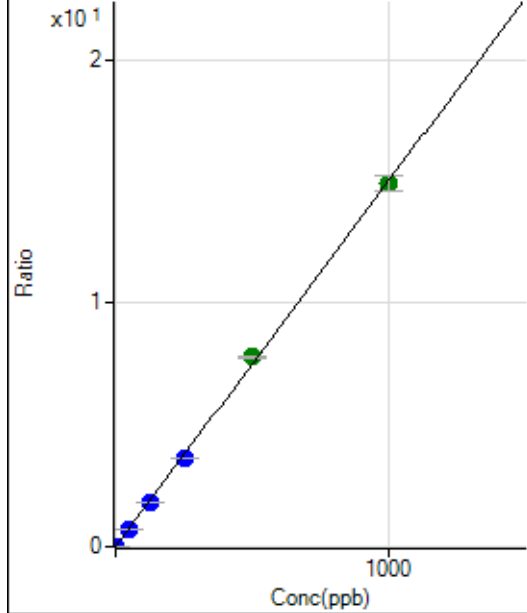
$$y = 1.6689E-004 * x + 7.9425E-004$$

$$R = 0.9999$$

$$DL = 1.985$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	63.33	0.0003	P	9.7
2	☐	1.000	0.966	3570.49	0.0148	P	0.9
3	☐	50.000	48.757	177693.34	0.7319	P	0.6
4	☐	125.000	121.338	429862.96	1.8209	P	2.4
5	☐	250.000	243.114	843312.07	3.6482	P	1.0
6	☐	500.000	519.915	1810902.87	7.8016	A	0.9
7	☐	1000.000	992.284	3458257.07	14.8895	A	4.4
8	☐			4208.44	0.0190	P	2.3

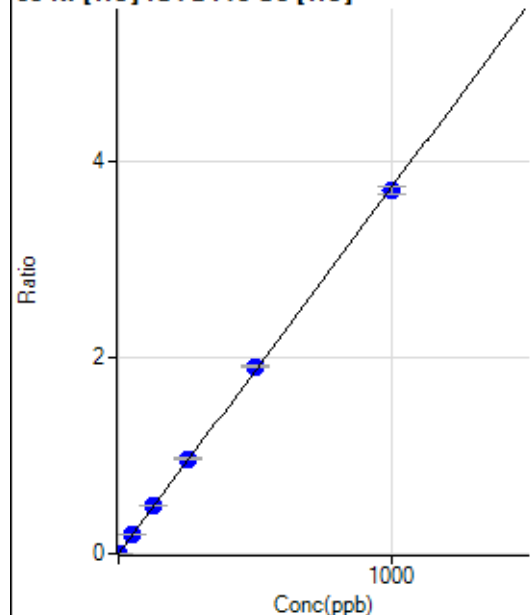
$$y = 0.0150 * x + 2.5835E-004$$

$$R = 0.9997$$

$$DL = 0.004995$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	46.67	0.0002	P	18.5
2	☐	1.000	1.045	991.16	0.0041	P	2.5
3	☐	50.000	52.137	47390.05	0.1952	P	1.8
4	☐	125.000	130.901	115610.38	0.4897	P	2.9
5	☐	250.000	259.430	224324.14	0.9704	P	2.0
6	☐	500.000	511.403	444019.95	1.9128	P	0.5
7	☐	1000.000	991.097	861023.12	3.7068	P	2.2
8	☐			2046.84	0.0092	P	4.2

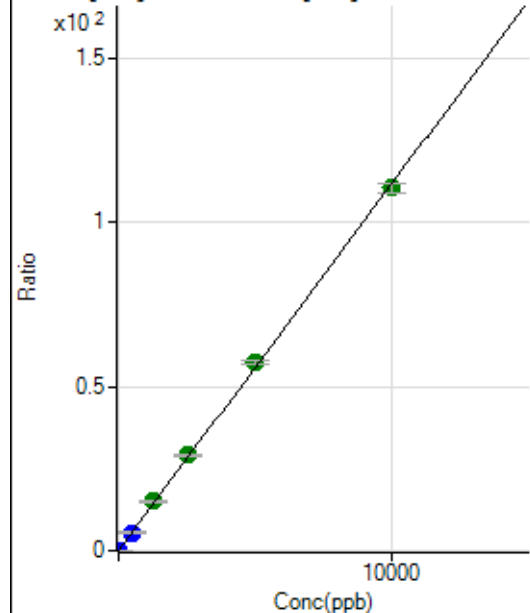
$$y = 0.0037 * x + 1.9039E-004$$

$$R = 0.9998$$

$$DL = 0.02818$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1609.00	0.0066	P	6.4
2	☐	2.000	1.916	6760.57	0.0279	P	3.2
3	☐	500.000	497.573	1349672.60	5.5589	P	1.2
4	☐	1250.000	1343.780	3541425.33	15.0014	A	2.0
5	☐	2500.000	2599.928	6707885.73	29.0185	A	1.7
6	☐	5000.000	5130.790	13291576.89	57.2597	A	1.6
7	☐	10000.000	9898.022	25656722.67	110.4559	A	2.6
8	☐			4776.41	0.0215	P	1.8

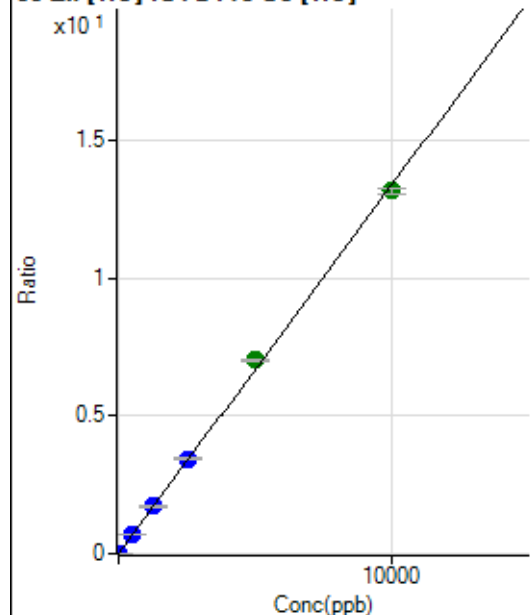
$$y = 0.0112 * x + 0.0066$$

$$R = 0.9998$$

$$DL = 0.1134$$

Weight: <None>

Min Conc: 0

66 Zn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	147.78	0.0006	P	13.6
2	☐	2.000	2.502	954.49	0.0039	P	2.8
3	☐	500.000	521.882	169462.97	0.6979	P	1.0
4	☐	1250.000	1299.158	409919.84	1.7365	P	3.3
5	☐	2500.000	2560.361	790961.21	3.4217	P	1.9
6	☐	5000.000	5256.977	1630513.60	7.0249	A	1.4
7	☐	10000.000	9849.182	3057142.97	13.1609	A	1.7
8	☐			1991.27	0.0090	P	1.6

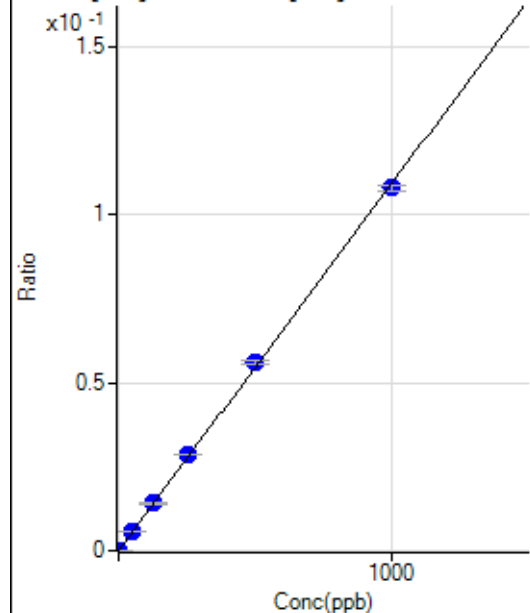
$$y = 0.0013 * x + 6.0265E-004$$

$$R = 0.9995$$

$$DL = 0.1844$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3.33	0.0000	P	73.6
2	☐	1.000	1.046	188.02	0.0001	P	6.2
3	☐	50.000	52.604	9311.35	0.0057	P	4.0
4	☐	125.000	128.922	22645.73	0.0141	P	1.5
5	☐	250.000	262.941	44353.73	0.0287	P	1.3
6	☐	500.000	514.807	86613.03	0.0562	P	2.6
7	☐	1000.000	988.741	168240.33	0.1079	P	1.5
8	☐			101.68	0.0001	P	9.8

$$y = 1.0910E-004 * x + 2.0475E-006$$

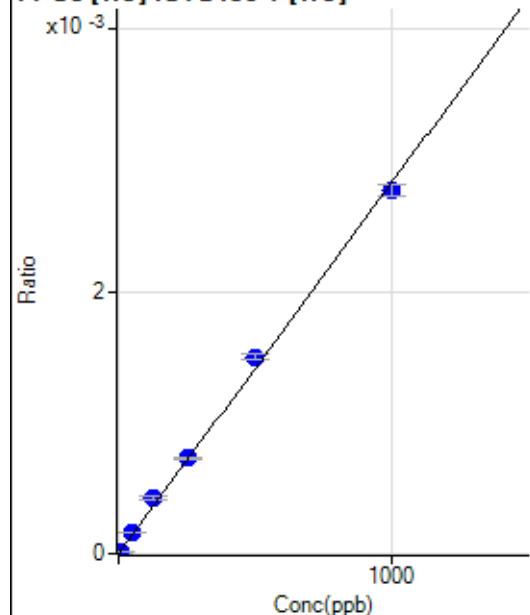
$$R = 0.9997$$

$$DL = 0.04142$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	4.369	21.11	0.0000	P	50.9
3	☐	50.000	56.621	261.12	0.0002	P	1.7
4	☐	125.000	150.318	685.58	0.0004	P	7.3
5	☐	250.000	257.732	1127.84	0.0007	P	1.5
6	☐	500.000	531.580	2319.11	0.0015	P	3.1
7	☐	1000.000	978.784	4319.60	0.0028	P	3.0
8	☐			2.22	0.0000	P	86.6

$$y = 2.8280E-006 * x + 6.9144E-007$$

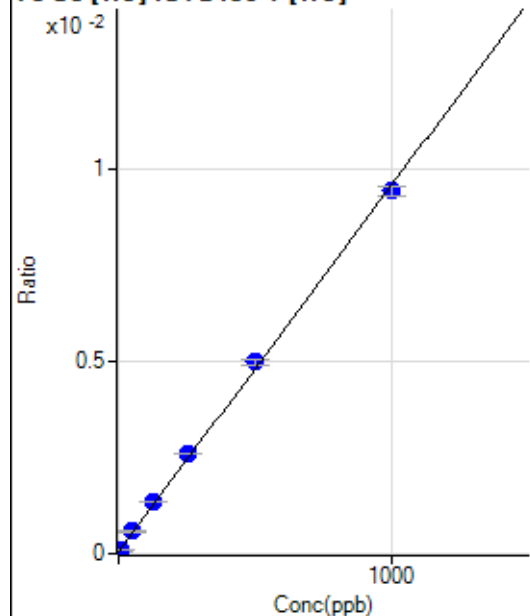
$$R = 0.9990$$

$$DL = 1.27$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	82.34	0.0001	P	16.6
2	☐	5.000	5.468	167.02	0.0001	P	6.5
3	☐	50.000	55.467	937.46	0.0006	P	10.5
4	☐	125.000	134.008	2135.05	0.0013	P	0.3
5	☐	250.000	267.113	4007.98	0.0026	P	0.7
6	☐	500.000	518.836	7690.55	0.0050	P	3.2
7	☐	1000.000	984.902	14693.47	0.0094	P	2.3
8	☐			78.68	0.0001	P	1.7

$$y = 9.5149E-006 * x + 5.1082E-005$$

$$R = 0.9996$$

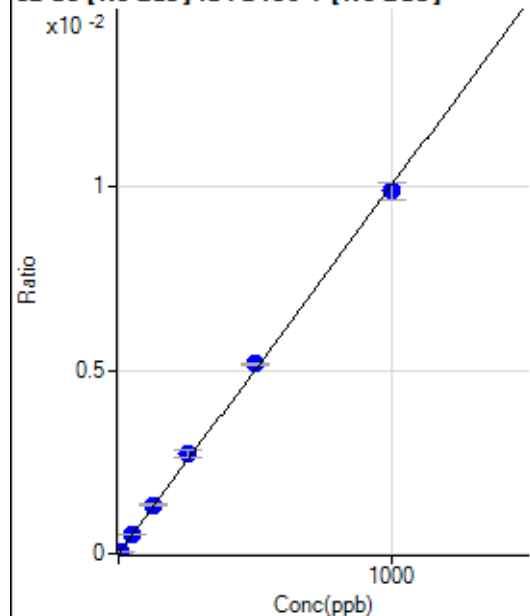
$$DL = 2.67$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			59840.88		P	1.9
2	☐			59290.16		P	1.8
3	☐			59718.85		P	0.7
4	☐			56482.44		P	3.2
5	☐			55203.30		P	1.7
6	☐			54010.19		P	0.8
7	☐			53785.24		P	2.1
8	☐			50509.66		P	0.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-0.84	0.0000	P	-4218.
2	☐	5.000	5.471	828.70	0.0001	P	4.3
3	☐	50.000	54.101	8241.68	0.0005	P	2.7
4	☐	125.000	133.049	20127.94	0.0013	P	1.8
5	☐	250.000	272.789	39437.71	0.0027	P	7.5
6	☐	500.000	515.334	75357.94	0.0052	P	1.4
7	☐	1000.000	985.422	142911.04	0.0099	P	4.7
8	☐			200.82	0.0000	P	17.6

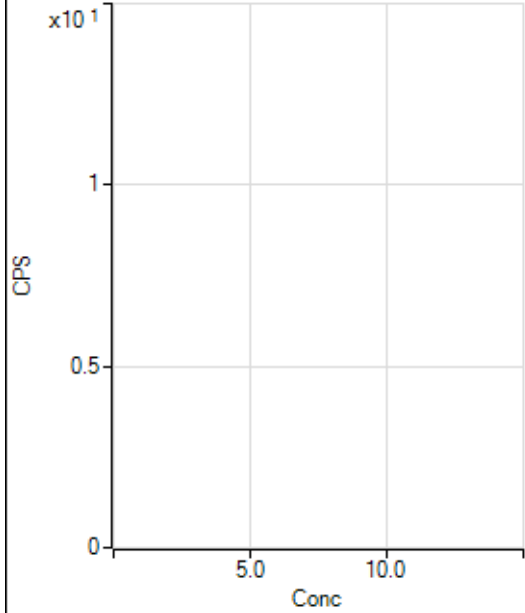
$$y = 1.0036E-005 * x - 5.0303E-008$$

$$R = 0.9995$$

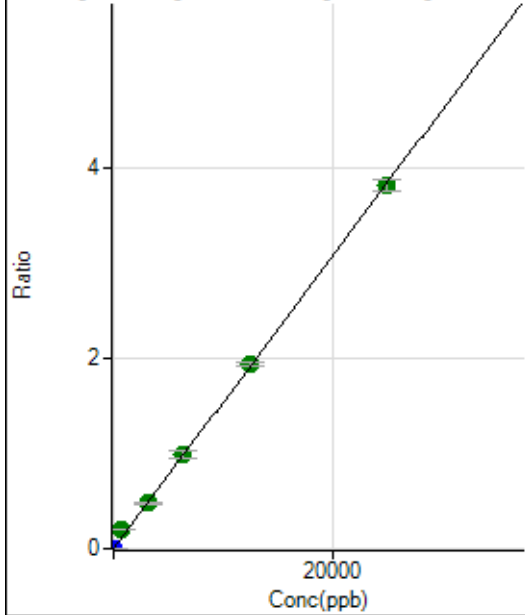
$$DL = 0.6343$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			437.87		P	5.8
2	☐			427.04		P	4.1
3	☐			469.95		P	6.5
4	☐			451.20		P	6.1
5	☐			454.12		P	4.2
6	☐			415.79		P	5.7
7	☐			444.12		P	7.1
8	☐			431.20		P	5.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	705.59	0.0000	P	11.8
2	☐	1.000	0.967	2936.51	0.0002	P	4.3
3	☐	625.000	1278.646	2978185.35	0.1962	A	2.4
4	☐	3125.000	3100.036	7170236.88	0.4756	A	2.7
5	☐	6250.000	6432.524	14209369.07	0.9868	A	8.3
6	☐	12500.000	12659.567	28294579.45	1.9420	A	1.6
7	☐	25000.000	24861.365	55142032.48	3.8138	A	3.1
8	☐			15595.27	0.0011	P	1.1

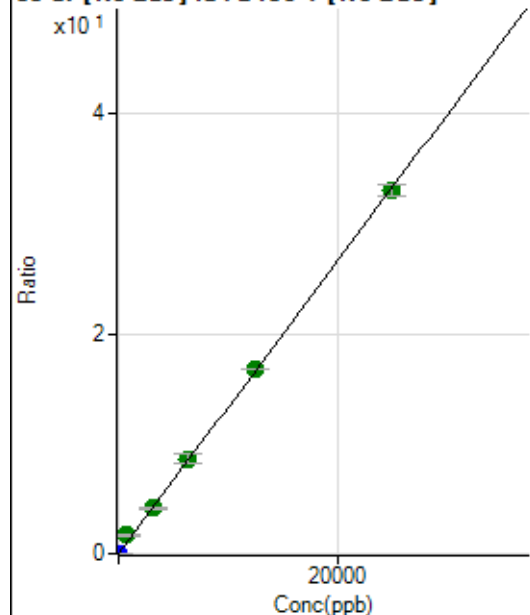
$$y = 1.5340E-004 * x + 4.5871E-005$$

$$R = 0.9997$$

$$DL = 0.1062$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	277.79	0.0000	P	20.2
2	☐	1.000	0.947	19283.26	0.0013	P	2.8
3	☐	625.000	1260.827	25418651.09	1.6743	A	2.5
4	☐	3125.000	3096.006	61993722.22	4.1113	A	2.4
5	☐	6250.000	6506.824	124406480.5	8.6407	A	8.5
6	☐	12500.000	12661.019	245003502.7	16.8131	A	0.5
7	☐	25000.000	24843.013	477124199.5	32.9901	A	3.2
8	☐			130578.17	0.0092	P	1.6

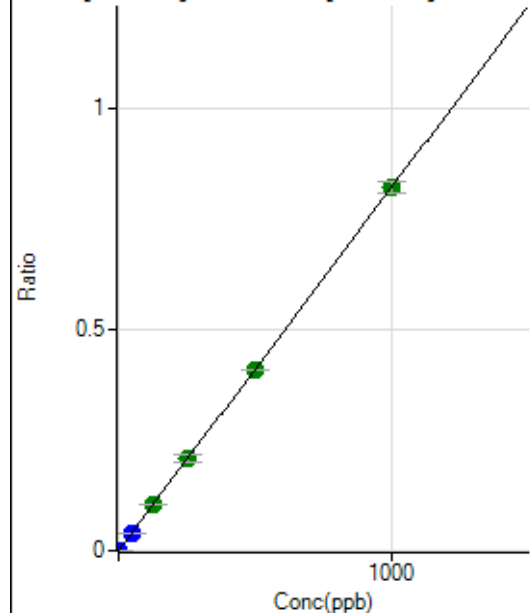
$$y = 0.0013 * x + 1.8093E-005$$

$$R = 0.9997$$

$$DL = 0.008244$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	602.81	0.0000	P	15.3
2	☐	1.000	0.918	11980.52	0.0008	P	1.4
3	☐	50.000	49.023	611141.14	0.0403	P	1.5
4	☐	125.000	128.335	1587735.64	0.1053	A	1.1
5	☐	250.000	255.642	3021560.90	0.2098	A	7.9
6	☐	500.000	498.513	5959774.44	0.4090	A	0.4
7	☐	1000.000	998.965	11848417.19	0.8196	A	3.3
8	☐			5459.54	0.0004	P	4.2

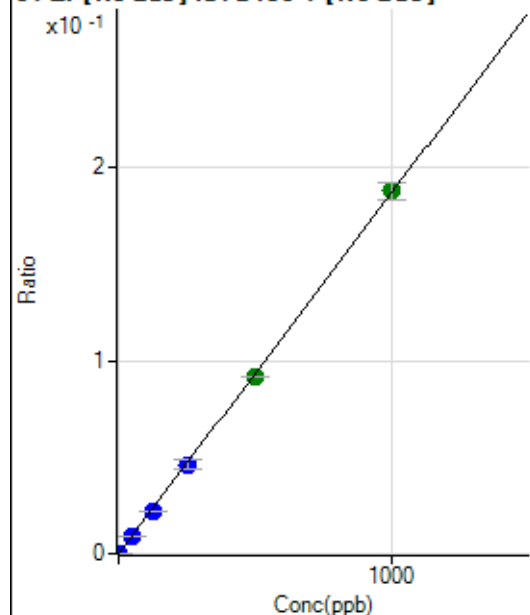
$$y = 8.2037E-004 * x + 3.9048E-005$$

$$R = 1.0000$$

$$DL = 0.02189$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	72.22	0.0000	P	37.8
2	☐	1.000	0.910	2641.99	0.0002	P	7.6
3	☐	50.000	48.096	136339.60	0.0090	P	2.8
4	☐	125.000	118.361	333145.18	0.0221	P	0.1
5	☐	250.000	247.194	664128.25	0.0461	P	9.2
6	☐	500.000	491.468	1336747.89	0.0917	A	0.6
7	☐	1000.000	1005.893	2713228.94	0.1878	A	4.9
8	☐			1219.53	0.0001	P	3.6

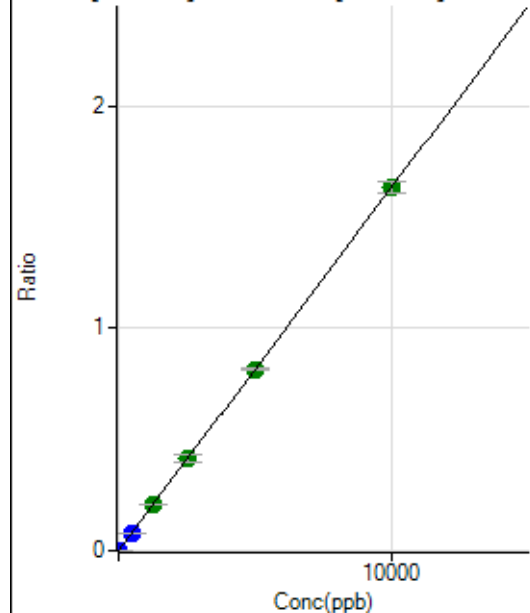
$$y = 1.8665E-004 * x + 4.7201E-006$$

$$R = 0.9999$$

$$DL = 0.02868$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	186.11	0.0000	P	19.0
2	☐	5.000	5.452	13645.96	0.0009	P	5.0
3	☐	500.000	488.181	1211416.40	0.0798	P	2.8
4	☐	1250.000	1266.691	3121280.00	0.2071	A	1.5
5	☐	2500.000	2540.435	5982061.72	0.4153	A	7.5
6	☐	5000.000	5001.595	11913512.68	0.8176	A	0.3
7	☐	10000.000	9987.598	23603289.24	1.6326	A	3.2
8	☐			6271.03	0.0004	P	4.2

$$y = 1.6346E-004 * x + 1.2093E-005$$

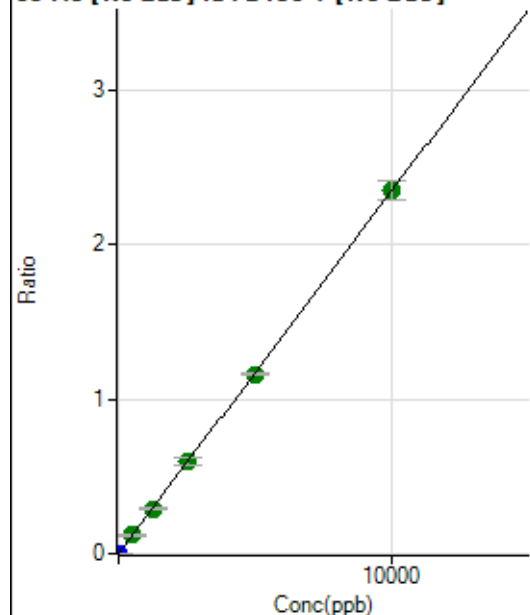
$$R = 1.0000$$

$$DL = 0.04224$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.55	0.0000	P	15.5
2	☐	5.000	4.793	17016.44	0.0011	P	2.3
3	☐	500.000	507.557	1806907.53	0.1190	A	3.4
4	☐	1250.000	1241.174	4387959.30	0.2911	A	1.9
5	☐	2500.000	2554.322	8625665.82	0.5991	A	8.5
6	☐	5000.000	4956.428	16936814.79	1.1625	A	1.8
7	☐	10000.000	10008.931	33915313.61	2.3475	A	5.4
8	☐			6243.22	0.0004	P	5.6

$$y = 2.3454\text{E-}004 * x + 1.9828\text{E-}006$$

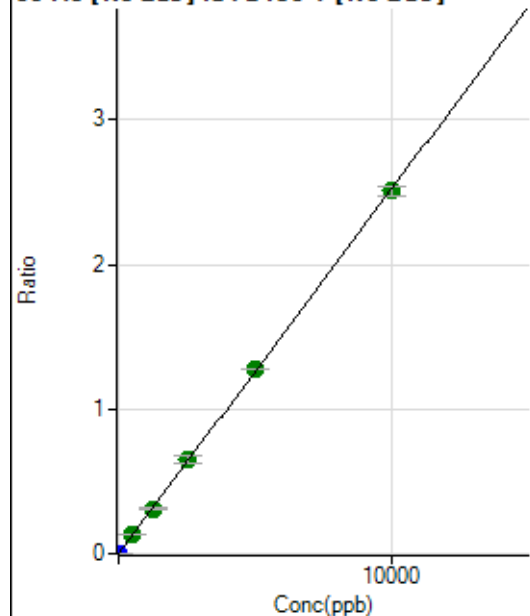
$$R = 1.0000$$

$$DL = 0.00392$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	261.12	0.0000	P	9.8
2	☐	5.000	4.860	18774.35	0.0012	P	2.7
3	☐	500.000	513.417	1965829.17	0.1295	A	2.2
4	☐	1250.000	1233.743	4690058.44	0.3111	A	1.5
5	☐	2500.000	2583.937	9385997.61	0.6516	A	7.6
6	☐	5000.000	5060.695	18595838.96	1.2762	A	0.6
7	☐	10000.000	9950.030	36276839.01	2.5091	A	3.0
8	☐			20045.69	0.0014	P	4.6

$$y = 2.5217\text{E-}004 * x + 1.6976\text{E-}005$$

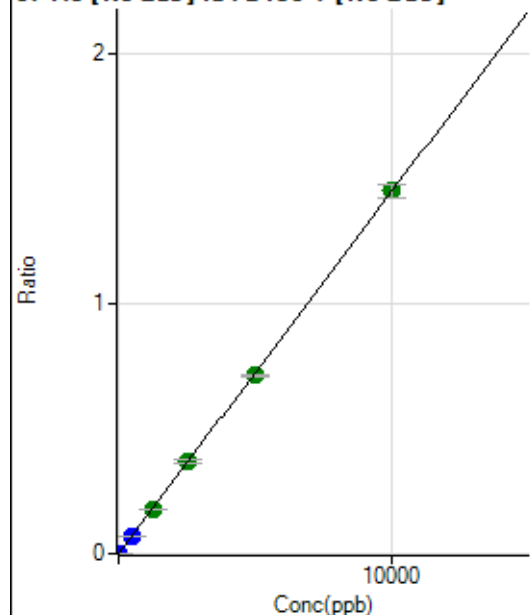
$$R = 0.9999$$

$$DL = 0.01978$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33.33	0.0000	P	27.7
2	☐	5.000	4.825	10570.97	0.0007	P	3.1
3	☐	500.000	489.756	1074372.51	0.0708	P	1.7
4	☐	1250.000	1242.703	2707339.84	0.1796	A	0.8
5	☐	2500.000	2544.085	5300889.57	0.3676	A	5.4
6	☐	5000.000	4918.473	10356939.21	0.7107	A	1.0
7	☐	10000.000	10031.167	20957650.99	1.4495	A	3.4
8	☐			4439.72	0.0003	P	3.4

$$y = 1.4450E-004 * x + 2.1752E-006$$

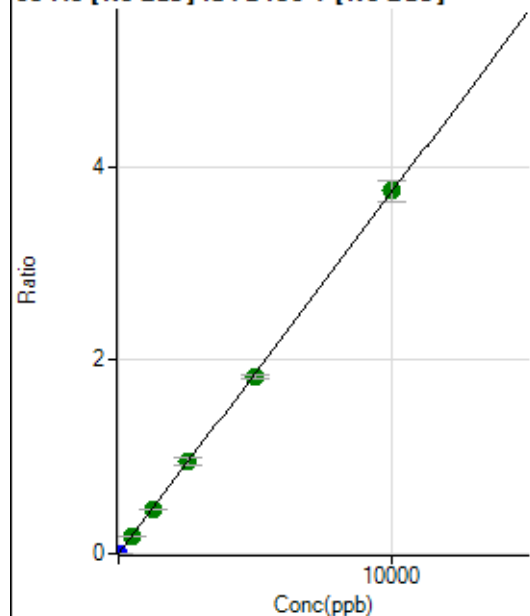
$$R = 0.9999$$

$$DL = 0.01249$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	75.00	0.0000	P	44.5
2	☐	5.000	4.690	26565.03	0.0018	P	1.0
3	☐	500.000	495.595	2812059.48	0.1852	A	1.4
4	☐	1250.000	1213.181	6834244.95	0.4534	A	2.0
5	☐	2500.000	2545.782	13706684.68	0.9514	A	7.5
6	☐	5000.000	4907.389	26720948.86	1.8340	A	1.6
7	☐	10000.000	10039.683	54206085.94	3.7521	A	5.5
8	☐			9759.22	0.0007	P	4.6

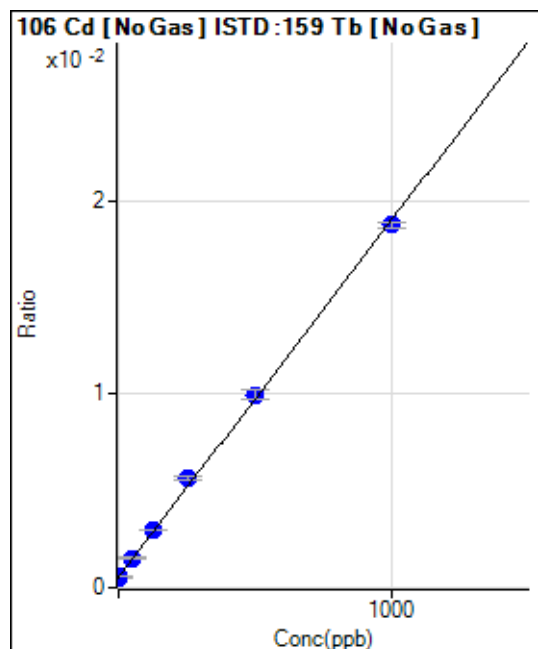
$$y = 3.7373E-004 * x + 4.8587E-006$$

$$R = 0.9999$$

$$DL = 0.01736$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5167.81	0.0005	P	0.7
2	☐	1.000	1.244	5417.87	0.0006	P	2.0
3	☐	50.000	54.222	15281.07	0.0015	P	5.1
4	☐	125.000	133.663	29476.89	0.0030	P	0.1
5	☐	250.000	276.223	53217.63	0.0056	P	3.3
6	☐	500.000	510.811	97516.73	0.0100	P	5.0
7	☐	1000.000	986.745	183509.68	0.0188	P	1.7
8	☐			4759.31	0.0005	P	4.9

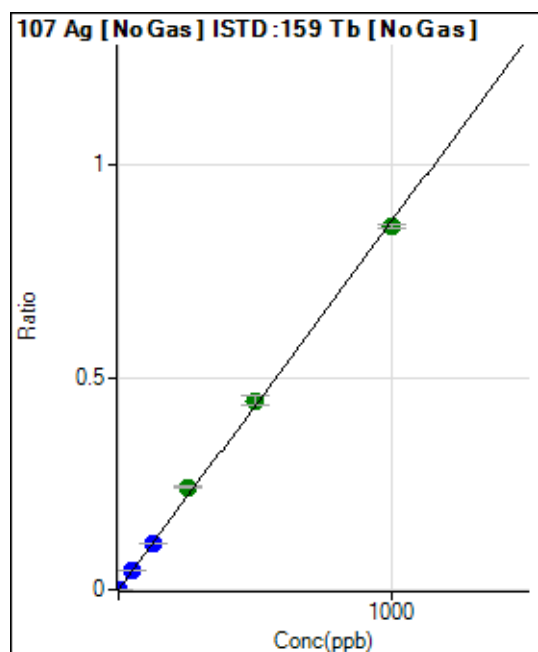
$$y = 1.8471\text{E-}005 * x + 5.3735\text{E-}004$$

R = 0.9995

DL = 0.5934

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	116.67	0.0000	P	12.6
2	☐	1.000	1.006	8558.46	0.0009	P	3.9
3	☐	50.000	51.554	444335.62	0.0447	P	3.3
4	☐	125.000	126.343	1074636.44	0.1096	P	2.4
5	☐	250.000	279.186	2286915.46	0.2422	A	2.5
6	☐	500.000	513.868	4359283.56	0.4458	A	5.1
7	☐	1000.000	985.524	8362279.09	0.8550	A	1.1
8	☐			1619.59	0.0002	P	7.4

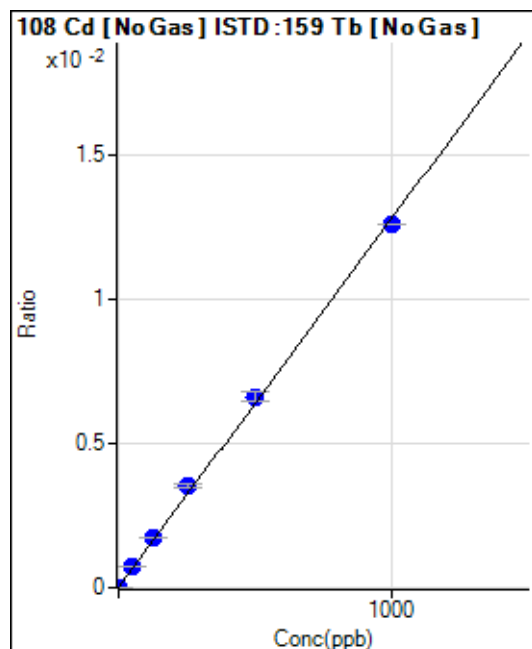
$$y = 8.6753\text{E-}004 * x + 1.2135\text{E-}005$$

R = 0.9993

DL = 0.005293

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41.67	0.0000	P	8.8
2	☐	1.000	1.045	170.84	0.0000	P	16.5
3	☐	50.000	56.393	7189.46	0.0007	P	3.1
4	☐	125.000	133.751	16772.87	0.0017	P	1.4
5	☐	250.000	276.434	33314.08	0.0035	P	4.2
6	☐	500.000	517.284	64575.96	0.0066	P	5.2
7	☐	1000.000	983.336	122754.71	0.0126	P	0.1
8	☐			119.45	0.0000	P	10.9

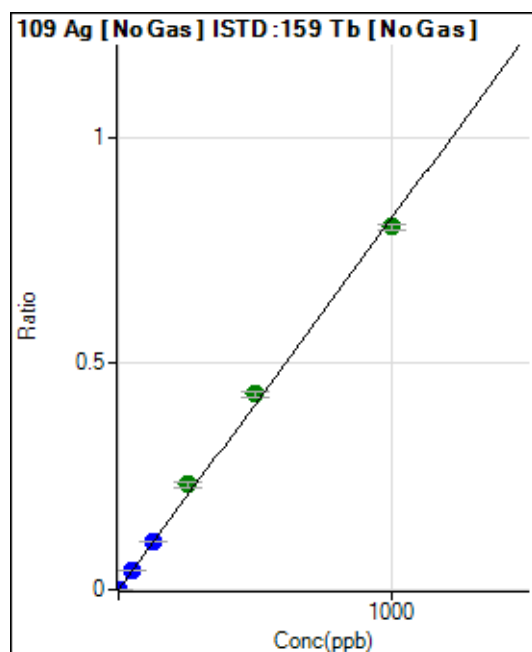
$$y = 1.2759\text{E-}005 * x + 4.3296\text{E-}006$$

$$R = 0.9994$$

$$DL = 0.08955$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	61.11	0.0000	P	27.4
2	☐	1.000	1.054	8422.31	0.0009	P	2.0
3	☐	50.000	52.691	429517.62	0.0432	P	2.0
4	☐	125.000	129.155	1039015.55	0.1060	P	1.4
5	☐	250.000	284.495	2201597.05	0.2334	A	5.2
6	☐	500.000	526.158	4223748.88	0.4317	A	2.6
7	☐	1000.000	977.643	7845774.39	0.8022	A	1.7
8	☐			1525.14	0.0002	P	12.7

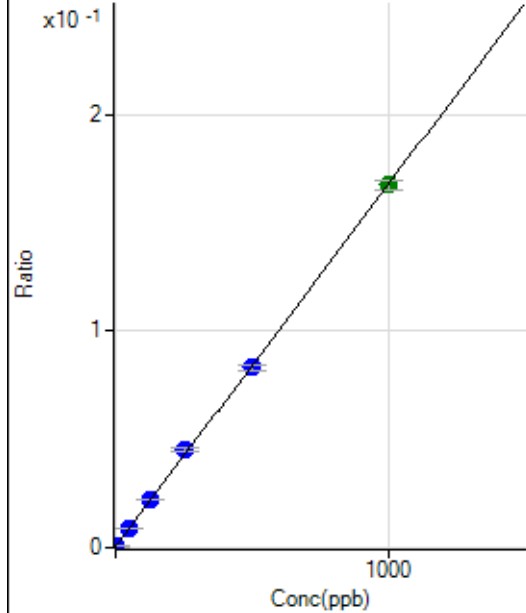
$$y = 8.2050\text{E-}004 * x + 6.3408\text{E-}006$$

$$R = 0.9988$$

$$DL = 0.006343$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3598.02	0.0004	P	0.7
2	☐	1.000	1.106	5409.16	0.0006	P	0.8
3	☐	50.000	52.549	91073.54	0.0092	P	2.8
4	☐	125.000	130.914	218484.71	0.0223	P	1.9
5	☐	250.000	266.507	424326.56	0.0450	P	4.4
6	☐	500.000	493.755	811993.53	0.0830	P	3.7
7	☐	1000.000	998.129	1637430.12	0.1674	A	2.3
8	☐			3449.30	0.0004	P	5.4

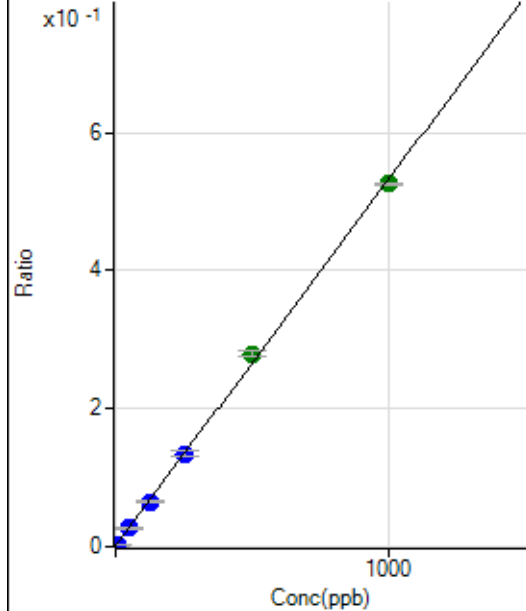
$$y = 1.6737E-004 * x + 3.7412E-004$$

$$R = 0.9998$$

$$DL = 0.04476$$

Weight: <None>

Min Conc: 0

118 Sn [No Gas] ISTD :159 Tb [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8481.21	0.0009	P	6.2
2	☐	5.000	4.237	30278.83	0.0031	P	3.6
3	☐	50.000	48.368	263855.86	0.0266	P	2.5
4	☐	125.000	121.321	640219.15	0.0653	P	1.2
5	☐	250.000	252.746	1273985.17	0.1351	P	5.2
6	☐	500.000	523.322	2726981.77	0.2787	A	2.9
7	☐	1000.000	988.198	5140456.62	0.5256	A	0.5
8	☐			5317.87	0.0006	P	4.9

$$y = 5.3097E-004 * x + 8.8227E-004$$

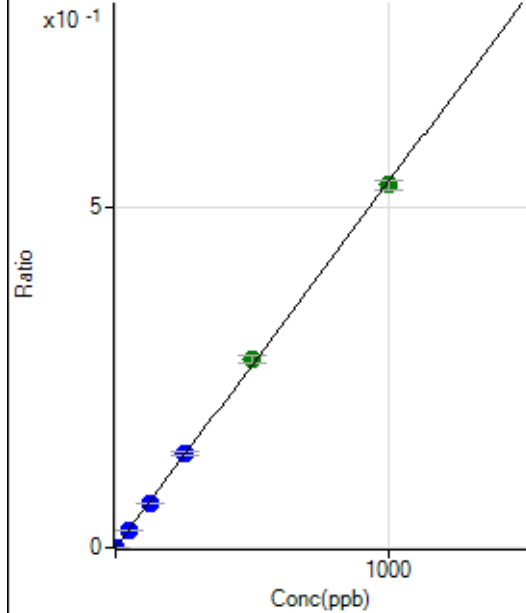
$$R = 0.9996$$

$$DL = 0.311$$

Weight: <None>

Min Conc: 0

121 Sb [No Gas] ISTD : 159 Tb [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33.33	0.0000	P	66.7
2	☐	2.000	1.918	10020.62	0.0010	P	4.6
3	☐	50.000	48.962	261944.27	0.0264	P	2.5
4	☐	125.000	122.637	647571.80	0.0660	P	0.7
5	☐	250.000	256.243	1302049.55	0.1380	P	3.9
6	☐	500.000	513.706	2705811.93	0.2767	A	4.1
7	☐	1000.000	991.934	5224076.89	0.5342	A	2.7
8	☐			5173.36	0.0005	P	4.4

$$y = 5.3854\text{E-}004 * x + 3.4832\text{E-}006$$

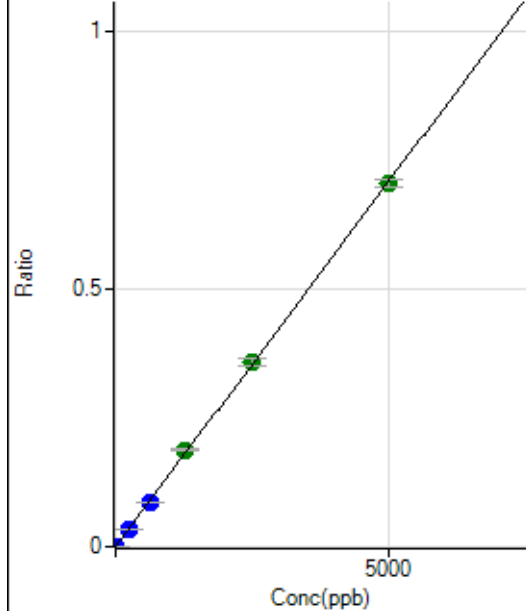
$$R = 0.9998$$

$$DL = 0.01294$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	89.3
2	☐	10.000	9.002	12342.06	0.0013	P	2.5
3	☐	250.000	237.153	333319.28	0.0336	P	3.4
4	☐	625.000	598.398	830214.00	0.0847	P	0.7
5	☐	1250.000	1328.527	1774073.57	0.1880	A	3.2
6	☐	2500.000	2525.692	3495807.46	0.3574	A	3.9
7	☐	5000.000	4971.492	6880027.67	0.7035	A	2.2
8	☐			2939.29	0.0003	P	5.7

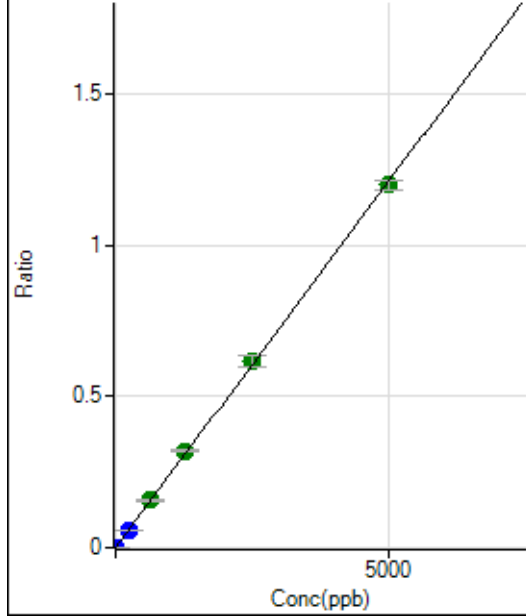
$$y = 1.4150\text{E-}004 * x + 2.6158\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.04954$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	50.00	0.0000	P	17.0
2	☐	10.000	9.446	22177.07	0.0023	P	1.7
3	☐	250.000	245.733	591409.45	0.0595	P	2.2
4	☐	625.000	645.905	1534115.45	0.1565	A	2.0
5	☐	1250.000	1323.138	3025302.24	0.3206	A	3.1
6	☐	2500.000	2549.023	6036364.67	0.6175	A	6.6
7	☐	5000.000	4954.805	11738900.44	1.2004	A	2.7
8	☐			4914.92	0.0005	P	2.6

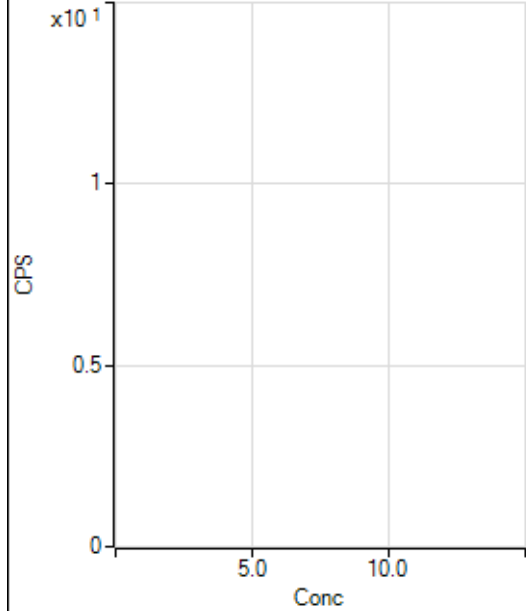
$$y = 2.4226E-004 * x + 5.2027E-006$$

$$R = 0.9998$$

$$DL = 0.01097$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.45		P	86.6
2	☐			8.89		P	43.3
3	☐			42.22		P	9.1
4	☐			86.67		P	7.7
5	☐			155.56		P	21.1
6	☐			271.12		P	17.8
7	☐			631.14		P	8.5
8	☐			35.56		P	39.0

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			2.22		P	86.6
3	☐			3.33		P	100.1
4	☐			5.55		P	69.3
5	☐			8.89		P	86.6
6	☐			21.11		P	24.1
7	☐			44.45		P	37.7
8	☐			13.33		P	109.0

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			16.67		P	50.0
2	☐			5.55		P	86.6
3	☐			16.67		P	50.0
4	☐			50.00		P	76.4
5	☐			86.11		P	40.3
6	☐			130.56		P	41.5
7	☐			250.01		P	5.8
8	☐			588.92		P	5.9

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	86.6
2	☐			1.11		P	173.2
3	☐			7.78		P	89.2
4	☐			18.89		P	36.7
5	☐			30.00		P	77.8
6	☐			50.00		P	29.1
7	☐			87.78		P	38.8
8	☐			208.89		P	11.2

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			83.34		P	36.1
2	☐			97.23		P	34.6
3	☐			94.45		P	28.4
4	☐			86.11		P	31.1
5	☐			136.12		P	23.2
6	☐			158.34		P	27.9
7	☐			197.23		P	27.2
8	☐			500.03		P	10.1

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			84.45		P	23.1
2	☐			97.78		P	21.9
3	☐			73.33		P	16.4
4	☐			94.44		P	8.9
5	☐			117.78		P	43.9
6	☐			125.56		P	29.2
7	☐			140.00		P	11.9
8	☐			261.12		P	1.9

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			30.56		P	31.5
2	☐			52.78		P	18.2
3	☐			36.11		P	74.2
4	☐			27.78		P	45.8
5	☐			61.11		P	43.8
6	☐			94.45		P	22.2
7	☐			86.11		P	48.7
8	☐			69.45		P	6.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			21.11		P	50.8
2	☐			15.56		P	65.5
3	☐			13.33		P	50.0
4	☐			14.45		P	26.7
5	☐			26.67		P	12.5
6	☐			28.89		P	33.3
7	☐			46.67		P	25.8
8	☐			41.11		P	28.5

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			47.22		P	36.7
2	☐			50.00		P	33.3
3	☐			41.67		P	69.3
4	☐			41.66		P	34.6
5	☐			63.89		P	54.3
6	☐			94.45		P	25.5
7	☐			122.23		P	10.4
8	☐			152.78		P	16.7

172 Yb [He] No available calibration points

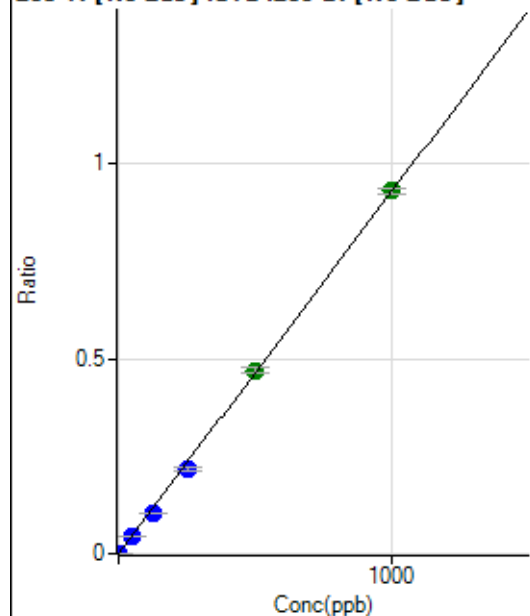
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			25.93		P	32.7
2	☐			20.37		P	63.0
3	☐			18.52		P	34.6
4	☐			29.63		P	21.7
5	☐			35.19		P	32.9
6	☐			27.78		P	20.0
7	☐			46.30		P	25.0
8	☐			70.37		P	24.1

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1494.57		P	9.8
2	☐			1527.91		P	6.7
3	☐			2150.24		P	5.5
4	☐			3033.78		P	10.6
5	☐			4134.10		P	4.6
6	☐			7279.97		P	0.8
7	☐			12061.40		P	3.3
8	☐			1405.67		P	9.8

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			7213.22		P	3.0
2	☐			7211.34		P	1.3
3	☐			7483.73		P	1.6
4	☐			7543.03		P	3.7
5	☐			8041.46		P	4.3
6	☐			9347.90		P	2.8
7	☐			11570.10		P	1.7
8	☐			6750.02		P	3.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	419.46	0.0001	P	19.5
2	☐	1.000	0.837	4739.91	0.0009	P	8.5
3	☐	50.000	46.693	236154.18	0.0435	P	3.2
4	☐	125.000	112.542	574599.63	0.1047	P	1.1
5	☐	250.000	233.198	1152365.49	0.2168	P	4.4
6	☐	500.000	506.773	2535609.17	0.4710	A	2.6
7	☐	1000.000	1002.537	4795582.22	0.9317	A	1.4
8	☐			1625.15	0.0004	P	8.5

$$y = 9.2923E-004 * x + 7.5954E-005$$

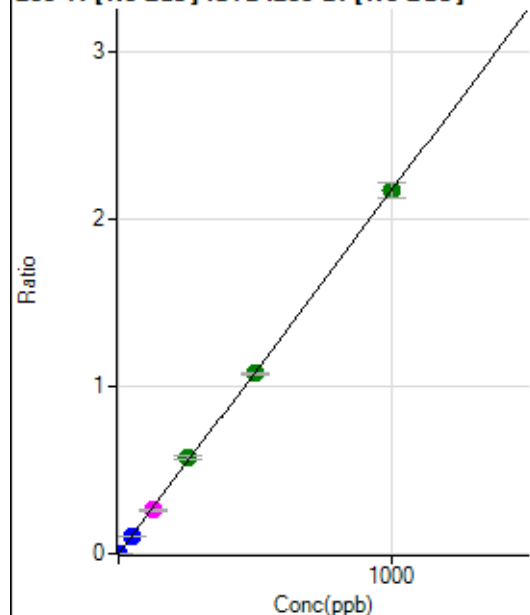
$$R = 0.9998$$

$$DL = 0.04787$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1011.18	0.0002	P	7.1
2	☐	1.000	0.873	11561.04	0.0021	P	5.2
3	☐	50.000	47.405	561045.79	0.1033	P	2.9
4	☐	125.000	119.912	1432254.96	0.2609	M	6.9
5	☐	250.000	263.880	3051052.56	0.5739	A	4.3
6	☐	500.000	497.064	5820038.06	1.0809	A	0.9
7	☐	1000.000	998.764	11173857.89	2.1717	A	4.2
8	☐			3945.16	0.0009	P	5.6

$$y = 0.0022 * x + 1.8336E-004$$

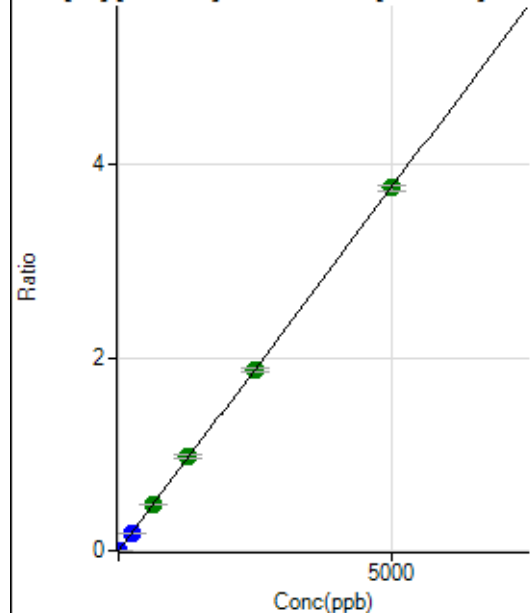
$$R = 0.9999$$

$$DL = 0.01789$$

Weight: <None>

Min Conc: 0

206 [Pb] [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	659.29	0.0001	P	8.7
2	☐	1.000	0.902	4445.31	0.0008	P	6.0
3	☐	250.000	229.173	939381.41	0.1729	P	3.8
4	☐	625.000	632.952	2620998.06	0.4773	A	0.9
5	☐	1250.000	1295.271	5194447.05	0.9767	A	3.0
6	☐	2500.000	2493.651	10122689.35	1.8803	A	2.4
7	☐	5000.000	4991.904	19377194.88	3.7639	A	1.9
8	☐			3270.85	0.0007	P	2.7

$$y = 7.5397E-004 * x + 1.1953E-004$$

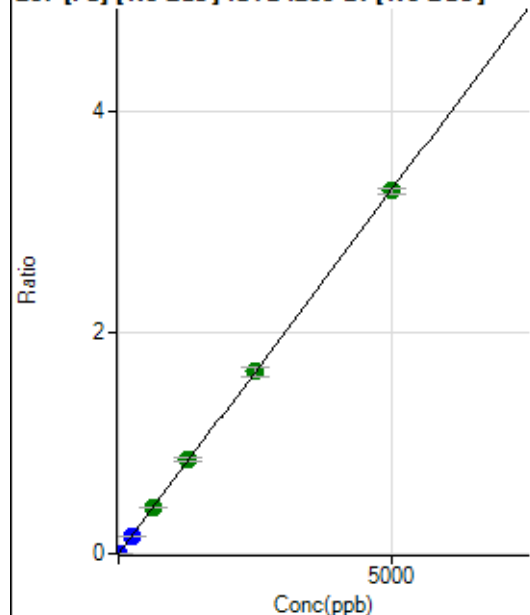
$$R = 0.9999$$

$$DL = 0.04143$$

Weight: <None>

Min Conc: 0

207 [Pb] [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	577.80	0.0001	P	17.5
2	☐	1.000	0.845	3665.39	0.0007	P	10.7
3	☐	250.000	227.718	814473.21	0.1499	P	2.6
4	☐	625.000	634.999	2294096.06	0.4178	A	1.4
5	☐	1250.000	1287.105	4501498.59	0.8467	A	4.0
6	☐	2500.000	2504.219	8865787.76	1.6472	A	5.2
7	☐	5000.000	4988.478	16893916.93	3.2812	A	1.2
8	☐			2855.93	0.0006	P	5.3

$$y = 6.5774\text{E-}004 * x + 1.0472\text{E-}004$$

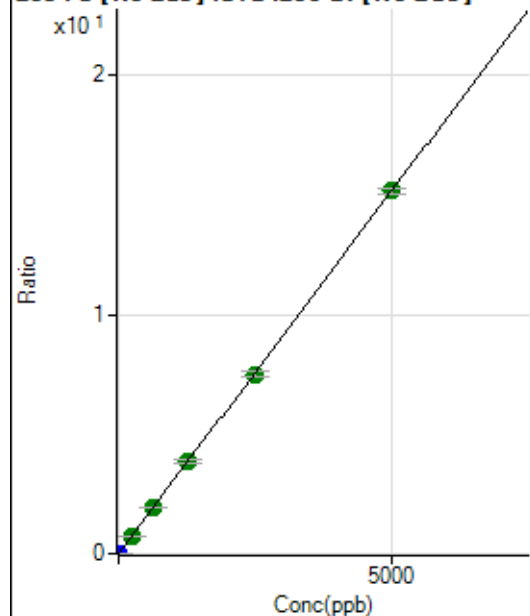
$$R = 0.9999$$

$$DL = 0.08371$$

Weight: <None>

Min Conc: 0

208 Pb [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2633.49	0.0005	P	4.6
2	☐	1.000	0.858	17123.30	0.0031	P	5.5
3	☐	250.000	240.863	3974625.82	0.7314	A	1.5
4	☐	625.000	629.035	10483651.25	1.9093	A	1.4
5	☐	1250.000	1280.708	20664740.91	3.8868	A	3.9
6	☐	2500.000	2478.896	40498006.75	7.5227	A	2.5
7	☐	5000.000	5002.827	78140128.95	15.1816	A	1.6
8	☐			12973.15	0.0028	P	4.2

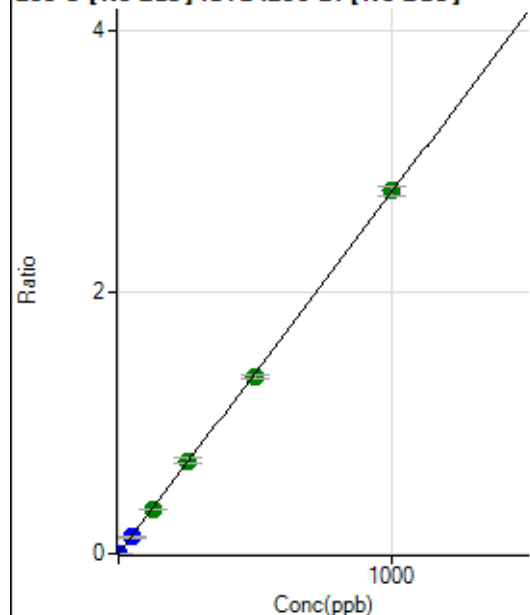
$$y = 0.0030 * x + 4.7740\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.02189$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13.89	0.0000	P	125.1
2	☐	1.000	0.840	12898.63	0.0023	P	5.1
3	☐	50.000	45.233	679161.47	0.1249	P	0.5
4	☐	125.000	122.920	1864295.55	0.3395	A	1.5
5	☐	250.000	257.174	3775968.44	0.7104	A	5.5
6	☐	500.000	489.979	7286845.09	1.3534	A	1.4
7	☐	1000.000	1003.716	14266956.74	2.7724	A	2.7
8	☐			741.71	0.0002	P	24.5

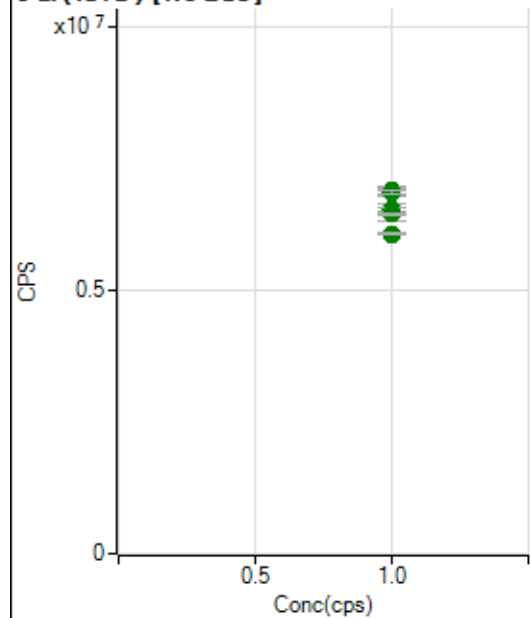
$$y = 0.0028 * x + 2.5039E-006$$

$$R = 0.9999$$

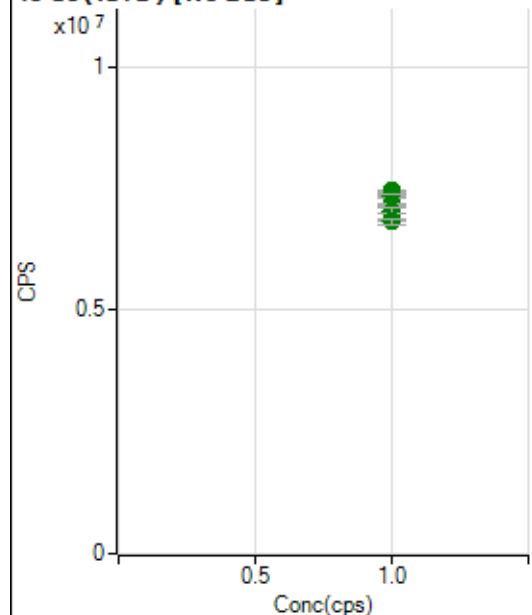
$$DL = 0.003402$$

Weight: <None>

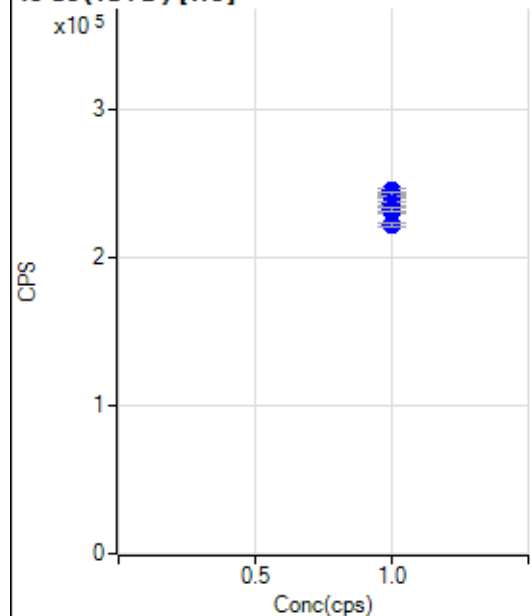
Min Conc: 0

6 Li (ISTD) [No Gas]

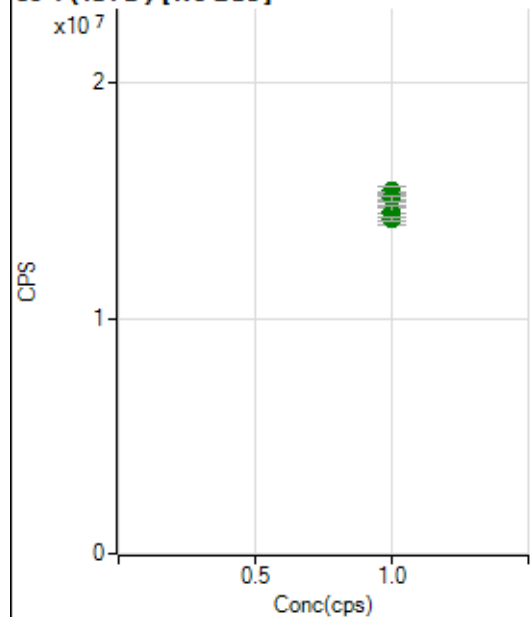
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6891366.30		A	2.2
2	☐	1.000		6860274.67		A	0.9
3	☐	1.000		6851507.16		A	2.1
4	☐	1.000		6857770.71		A	0.8
5	☐	1.000		6478994.56		A	5.5
6	☐	1.000		6542158.65		A	1.4
7	☐	1.000		6455195.92		A	0.9
8	☐	1.000		6079671.46		A	0.4

45 Sc (ISTD) [No Gas]

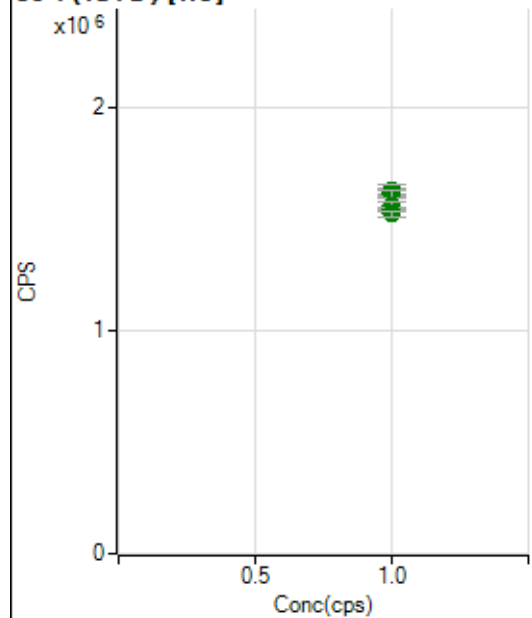
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7456150.72		A	0.6
2	☐	1.000		7353795.58		A	0.8
3	☐	1.000		7379713.02		A	0.9
4	☐	1.000		7359142.81		A	1.2
5	☐	1.000		7001117.19		A	4.8
6	☐	1.000		7175128.99		A	0.4
7	☐	1.000		7038992.25		A	1.8
8	☐	1.000		6823821.43		A	1.5

45 Sc (ISTD) [He]

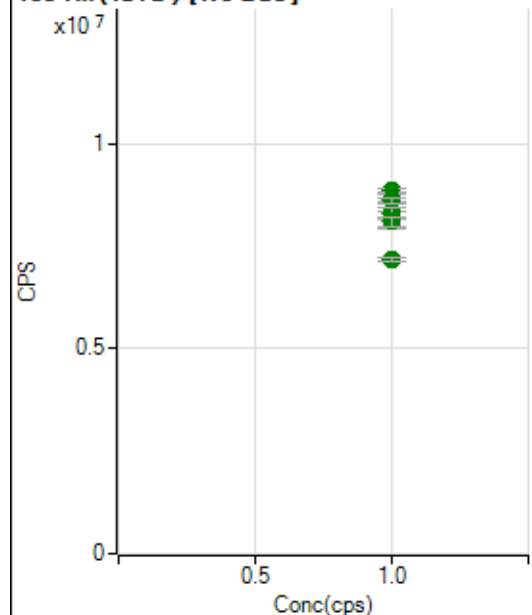
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		245009.46		P	1.0
2	☐	1.000		241903.20		P	1.0
3	☐	1.000		242802.64		P	0.6
4	☐	1.000		236104.12		P	1.0
5	☐	1.000		231158.21		P	0.1
6	☐	1.000		232147.87		P	2.2
7	☐	1.000		232325.02		P	1.3
8	☐	1.000		221768.25		P	1.0

89 Y (ISTD) [No Gas]

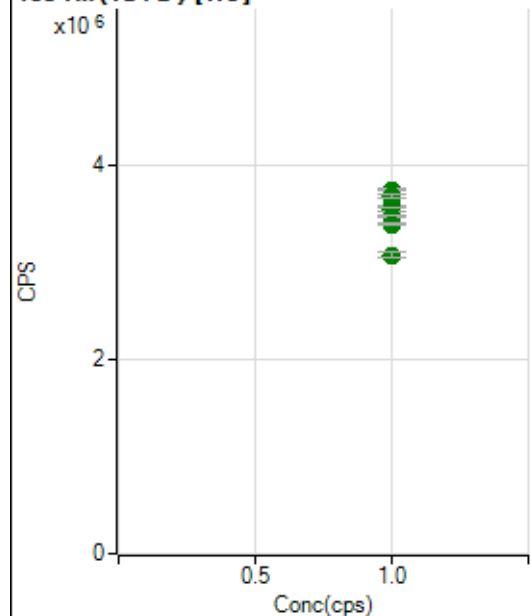
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		15407219.07		A	3.0
2	☐	1.000		15115037.97		A	1.8
3	☐	1.000		15184071.58		A	1.8
4	☐	1.000		15076601.17		A	1.6
5	☐	1.000		14456729.64		A	7.2
6	☐	1.000		14572006.87		A	1.6
7	☐	1.000		14469536.45		A	4.3
8	☐	1.000		14209004.93		A	1.3

89 Y (ISTD) [He]

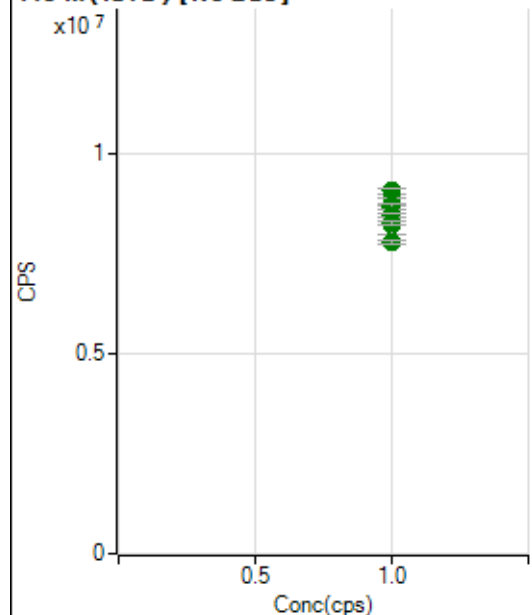
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1614580.11		A	2.3
2	☐	1.000		1619225.62		A	0.8
3	☐	1.000		1623222.77		A	3.4
4	☐	1.000		1609948.90		A	2.0
5	☐	1.000		1545895.18		A	0.7
6	☐	1.000		1542195.15		A	1.0
7	☐	1.000		1559793.07		A	1.9
8	☐	1.000		1520384.56		A	1.6

103 Rh (ISTD) [No Gas]

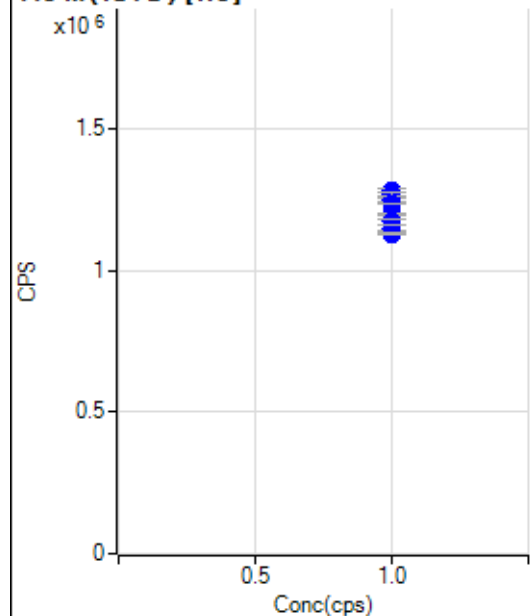
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8854502.45		A	1.1
2	☐	1.000		8760211.74		A	1.3
3	☐	1.000		8674935.44		A	2.3
4	☐	1.000		8612708.44		A	1.1
5	☐	1.000		8120921.88		A	5.2
6	☐	1.000		8296734.73		A	3.4
7	☐	1.000		8099732.73		A	3.2
8	☐	1.000		7184422.90		A	1.0

103 Rh (ISTD) [He]

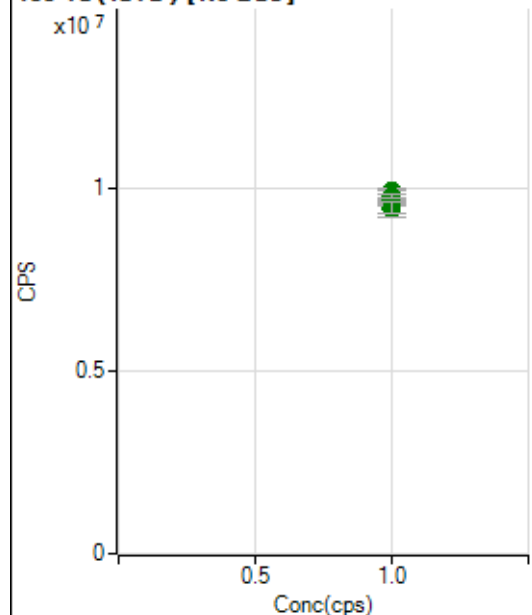
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3729725.22		A	1.7
2	☐	1.000		3649661.61		A	4.3
3	☐	1.000		3681405.78		A	0.8
4	☐	1.000		3566319.05		A	0.9
5	☐	1.000		3538921.33		A	0.8
6	☐	1.000		3463711.72		A	0.5
7	☐	1.000		3386547.73		A	0.9
8	☐	1.000		3070289.54		A	1.7

115 In (ISTD) [No Gas]

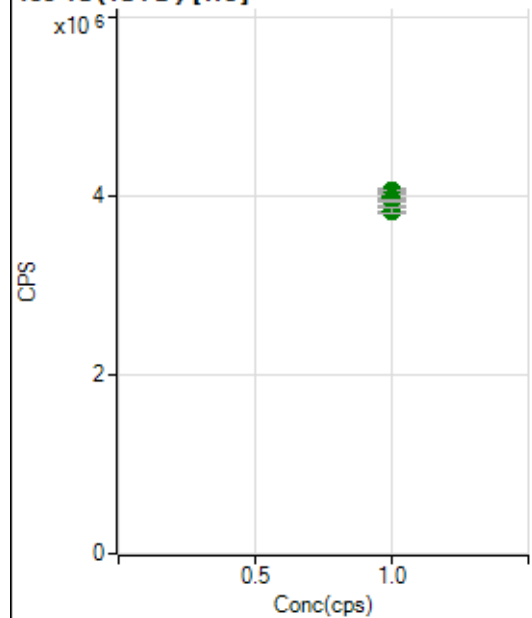
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9083708.95		A	1.5
2	☐	1.000		8666587.87		A	0.9
3	☐	1.000		8893801.47		A	0.0
4	☐	1.000		8696134.76		A	1.6
5	☐	1.000		8209423.43		A	5.5
6	☐	1.000		8463123.84		A	1.3
7	☐	1.000		8280616.20		A	1.1
8	☐	1.000		7790487.55		A	1.3

115 In (ISTD) [He]

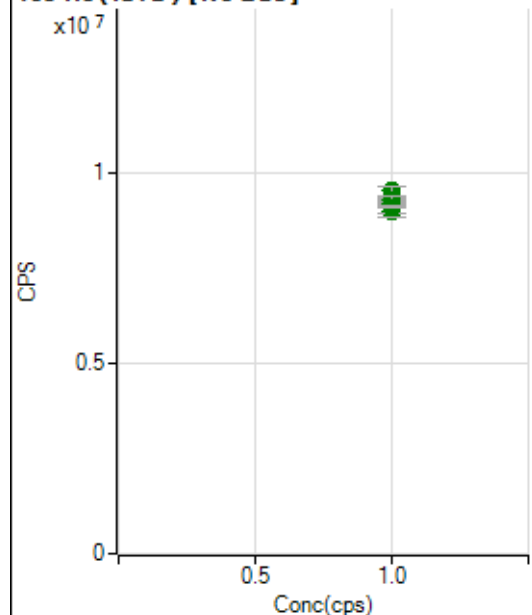
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1281927.88		P	1.1
2	☐	1.000		1249158.15		P	1.2
3	☐	1.000		1270233.63		P	0.8
4	☐	1.000		1236023.60		P	0.3
5	☐	1.000		1200494.46		P	0.6
6	☐	1.000		1172834.65		P	1.3
7	☐	1.000		1151517.91		P	1.4
8	☐	1.000		1131188.16		P	0.3

159 Tb (ISTD) [No Gas]

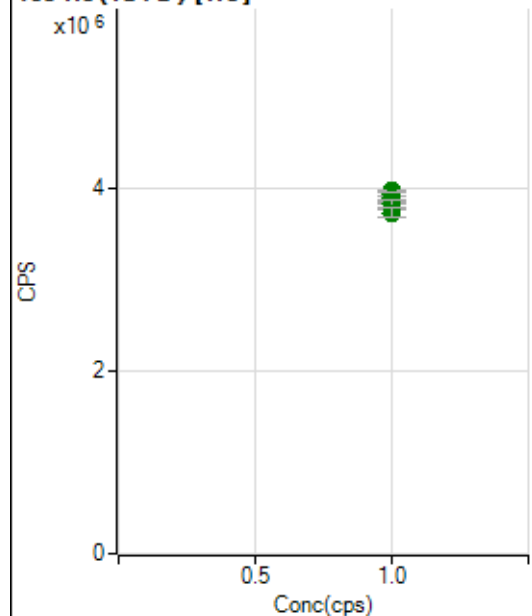
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9616777.43		A	1.2
2	☐	1.000		9671053.88		A	1.9
3	☐	1.000		9935884.64		A	1.9
4	☐	1.000		9805077.01		A	1.2
5	☐	1.000		9445558.61		A	4.4
6	☐	1.000		9789337.98		A	3.4
7	☐	1.000		9780803.60		A	0.9
8	☐	1.000		9466622.43		A	3.2

159 Tb (ISTD) [He]

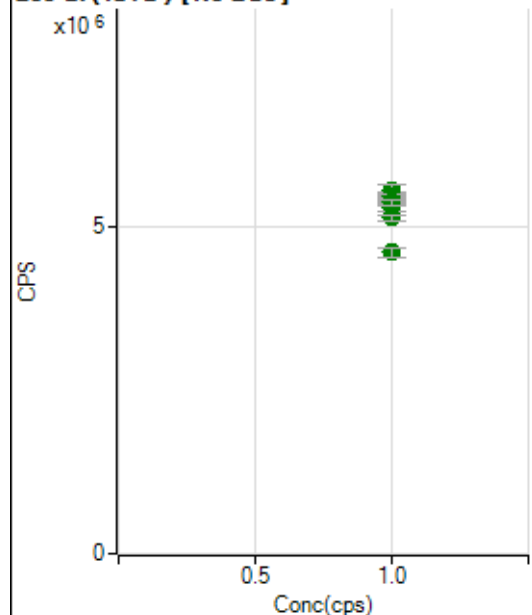
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4002317.41		A	1.1
2	☐	1.000		4061059.52		A	1.3
3	☐	1.000		4038559.00		A	0.8
4	☐	1.000		4024300.84		A	1.8
5	☐	1.000		3974001.71		A	2.2
6	☐	1.000		3866614.94		A	1.5
7	☐	1.000		3951872.23		A	0.3
8	☐	1.000		3839363.80		A	1.6

165 Ho (ISTD) [No Gas]

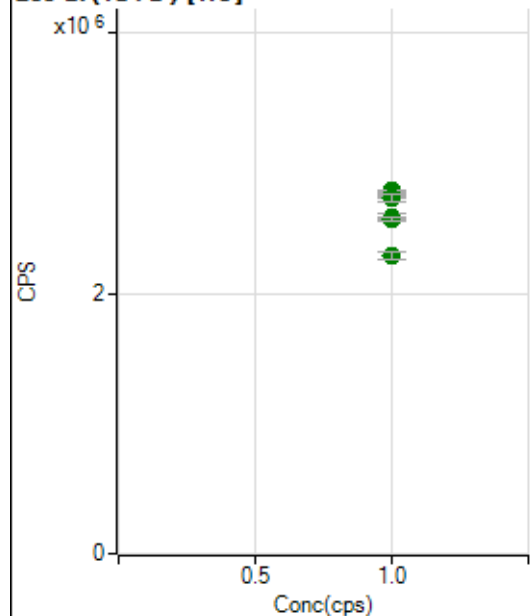
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9212719.48		A	1.6
2	☐	1.000		9197242.39		A	2.6
3	☐	1.000		9264866.70		A	2.2
4	☐	1.000		9520586.07		A	2.7
5	☐	1.000		8984173.90		A	3.8
6	☐	1.000		9301699.51		A	1.5
7	☐	1.000		9172950.38		A	5.0
8	☐	1.000		9087346.90		A	0.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3910328.76		A	2.8
2	☐	1.000		3939273.69		A	1.0
3	☐	1.000		3942617.09		A	1.8
4	☐	1.000		3969548.69		A	0.6
5	☐	1.000		3900021.54		A	2.6
6	☐	1.000		3841423.52		A	0.8
7	☐	1.000		3820981.61		A	2.8
8	☐	1.000		3734331.23		A	2.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5517958.25		A	1.2
2	☐	1.000		5563757.69		A	4.0
3	☐	1.000		5435584.22		A	2.1
4	☐	1.000		5490941.03		A	1.1
5	☐	1.000		5320486.03		A	2.9
6	☐	1.000		5384579.22		A	1.3
7	☐	1.000		5147959.16		A	2.1
8	☐	1.000		4616072.08		A	3.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2786546.28		A	0.9
2	☐	1.000		2770284.37		A	1.7
3	☐	1.000		2773799.58		A	0.6
4	☐	1.000		2760001.62		A	1.8
5	☐	1.000		2735519.44		A	2.0
6	☐	1.000		2589163.24		A	1.7
7	☐	1.000		2565277.01		A	1.0
8	☐	1.000		2286090.30		A	2.7

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8080522 MS.b
Acq. Date-Time 2022-08-05 16:10:16
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		22468	224678.93			0.705	5.000
24		128524	1285238.63			0.657	5.000
25		16589	165894.64			0.277	5.000
26		18990	189895.71			1.052	5.000
59		27245	272453.25			1.012	5.000
113		11261	112606.65			0.898	5.000
115		30993	309931.52			1.143	5.000
206		11667	116666.01			0.385	5.000
207		9723	97227.38			0.783	5.000
208		24449	244492.29			0.368	5.000
220		1	5.20			21.066	

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

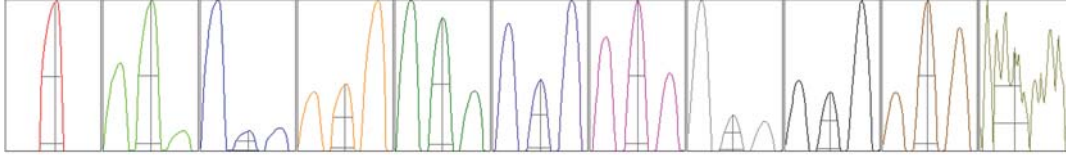
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	22748	22414	22422	22385	22370
24	127108	128539	128629	129170	129174
25	16662	16567	16570	16605	16544
26	19294	18845	19093	18859	18855
59	27672	26988	27344	27040	27183
113	11430	11163	11212	11258	11241
115	31535	30897	31090	30866	30577
206	11672	11626	11627	11674	11735
207	9701	9626	9720	9839	9728
208	24359	24364	24441	24543	24540

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	1	1	1	1	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	39057.33	9.10	8.90 - 9.10	
24	224117.82	24.05	23.90 - 24.10	
25	29650.02	25.05	24.90 - 25.10	
26	33235.32	26.00	25.90 - 26.10	
59	50851.53	59.00	58.90 - 59.10	
113	22954.84	113.05	112.90 - 113.10	
115	63820.53	115.05	114.90 - 115.10	
206	23620.86	205.95	205.90 - 206.10	
207	19710.78	206.95	206.90 - 207.10	
208	50056.17	207.95	207.90 - 208.10	
220	0.80	219.65	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.739	0.900	
24	0.61	0.783	0.900	
25	0.59	0.773	0.900	
26	0.61	0.741	0.900	
59	0.56	0.772	0.900	
113	0.51	0.725	0.900	
115	0.51	0.723	0.900	
206	0.51	0.761	0.900	
207	0.51	0.730	0.900	
208	0.50	0.733	0.900	
220	0.82	1.090		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	7.5 V	Deflect	15.8 V
Extract 2	-165.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-85 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-0.8 mm
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EM

Discriminator	4.8 mV	Analog HV	2300 V	Pulse HV	1642 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		5506	55056.79			1.858	
89		30927	309270.91			2.275	
205		23162	231619.09			1.968	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	5427	5551	5575	5606	5369
89	30694	30652	31469	31792	30028
205	23112	22780	23675	23578	22665

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	7.5 V	Deflect	4.0 V
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US EPA Tune Check Report

Extract 2	-165.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-85 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	125	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-0.8 mm
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EM

Discriminator	4.8 mV	Analog HV	2300 V	Pulse HV	1642 V
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