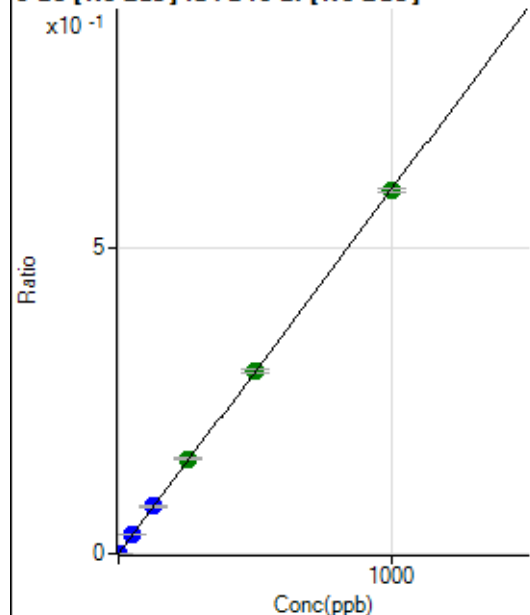


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8040322 MS.b\
Analysis File: P8040322 MS.batch.bin
DA Date-Time: 2022-04-03 20:58:45
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	006CALB.d	S00	2022-04-03 17:57:58
2	008CAL.S.d	S02	2022-04-03 18:04:06
3	009CAL.S.d	S03	2022-04-03 18:07:09
4	010CAL.S.d	S04	2022-04-03 18:10:15
5	011CAL.S.d	S05	2022-04-03 18:13:18
6	012CAL.S.d	S06	2022-04-03 18:16:24
7	013CAL.S.d	S07	2022-04-03 18:19:27
8	014CAL.S.d	S08	2022-04-03 18:22:32

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	32.66	0.0000	P	17.6
2	☐	1.000	1.085	4445.14	0.0006	P	3.7
3	☐	50.000	51.556	205263.83	0.0306	P	5.0
4	☐	125.000	129.702	512488.86	0.0771	P	3.1
5	☐	250.000	260.644	1060382.51	0.1549	A	2.6
6	☐	500.000	501.123	2021035.21	0.2977	A	2.3
7	☐	1000.000	996.112	4114063.59	0.5918	A	1.0
8	☐			743.21	0.0001	P	9.7

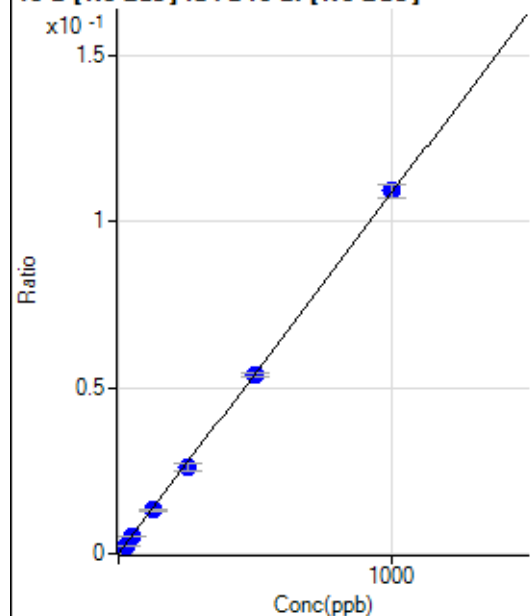
$$y = 5.9415E-004 * x + 4.6925E-006$$

$$R = 0.9999$$

$$DL = 0.004159$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	465.92	0.0001	P	6.1
2	☐	25.000	19.293	14797.91	0.0022	P	3.0
3	☐	50.000	47.724	35138.17	0.0052	P	8.7
4	☐	125.000	120.526	87405.54	0.0131	P	5.5
5	☐	250.000	240.983	179267.39	0.0262	P	9.0
6	☐	500.000	493.545	364084.24	0.0536	P	2.1
7	☐	1000.000	1006.298	759684.20	0.1093	P	4.0
8	☐			83712.28	0.0131	P	7.3

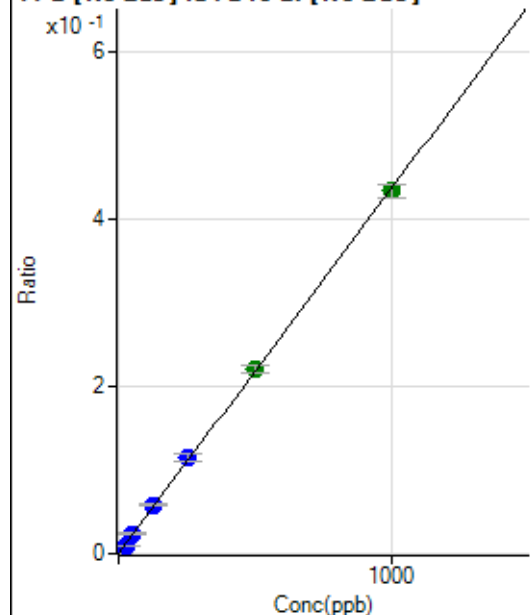
$$y = 1.0855E-004 * x + 6.6648E-005$$

$$R = 0.9999$$

$$DL = 0.1126$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1948.42	0.0003	P	4.9
2	☐	25.000	20.235	62372.80	0.0091	P	7.4
3	☐	50.000	53.134	157198.02	0.0235	P	7.7
4	☐	125.000	132.887	387476.83	0.0583	P	6.0
5	☐	250.000	262.172	784340.93	0.1147	P	8.8
6	☐	500.000	505.318	1499596.46	0.2209	A	4.7
7	☐	1000.000	993.274	3016202.24	0.4340	A	3.5
8	☐			372600.35	0.0581	P	5.4

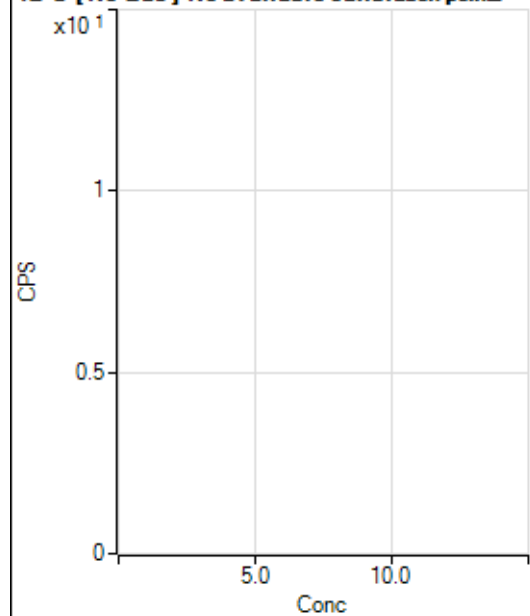
$$y = 4.3662E-004 * x + 2.7875E-004$$

$$R = 0.9998$$

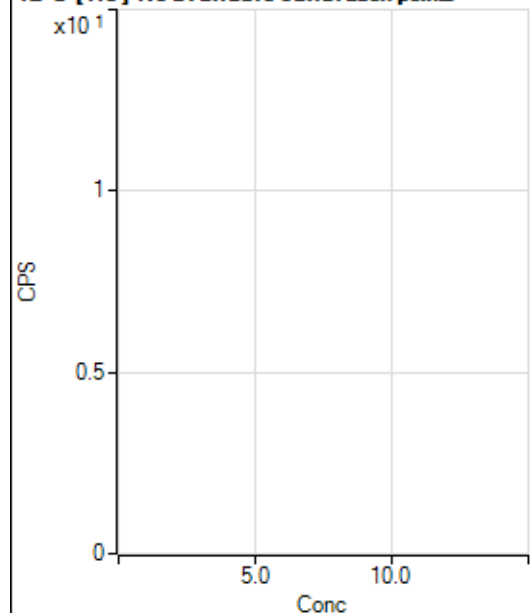
$$DL = 0.0945$$

Weight: <None>

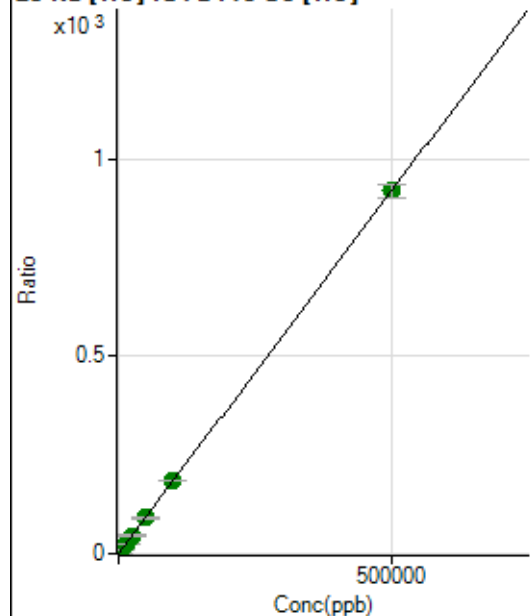
Min Conc: 0

12 C [No Gas] No available calibration points

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			9915452.65		A	4.0
2	☐			10705643.38		A	1.9
3	☐			10512844.68		A	2.4
4	☐			10682392.77		A	2.2
5	☐			11041036.01		A	0.4
6	☐			12014847.49		A	1.6
7	☐			12994783.88		A	0.4
8	☐			11205608.58		A	0.3

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			90364.62		P	1.8
2	☐			98927.47		P	1.7
3	☐			97862.17		P	1.8
4	☐			101732.12		P	2.3
5	☐			105598.89		P	2.5
6	☐			121053.24		P	0.4
7	☐			130657.08		P	1.1
8	☐			116189.74		P	1.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	21633.13	0.0920	P	1.2
2	☐	500.000	459.434	218823.74	0.9355	P	0.4
3	☐	5000.000	5030.975	2113994.01	9.3287	A	1.9
4	☐	12500.000	12562.331	5255728.16	23.1559	A	2.3
5	☐	25000.000	25056.775	10367428.70	46.0951	A	0.6
6	☐	50000.000	49048.089	21092097.35	90.1420	A	2.2
7	☐	100000.00	99876.520	43370346.11	183.4606	A	0.0
8	☐	500000.00	500115.22	207786118.5	918.2797	A	3.4

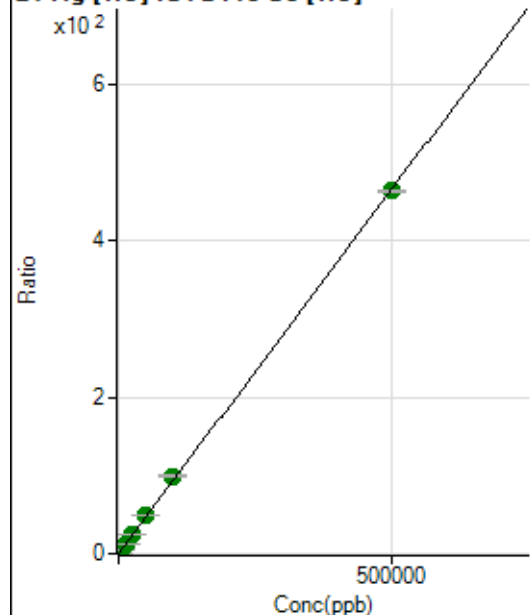
$$y = 0.0018 * x + 0.0920$$

$$R = 1.0000$$

$$DL = 1.829$$

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	708.37	0.0030	P	4.2
2	☐	500.000	494.379	108365.33	0.4633	P	2.4
3	☐	5000.000	5421.806	1144520.84	5.0514	A	2.1
4	☐	12500.000	13448.429	2842587.09	12.5253	A	1.7
5	☐	25000.000	27252.217	5707938.15	25.3784	A	1.1
6	☐	50000.000	52833.441	11512337.41	49.1979	A	1.8
7	☐	100000.00	106845.32	23521259.38	99.4900	A	2.6
8	☐	500000.00	498207.05	104967850.9	463.8990	A	0.6

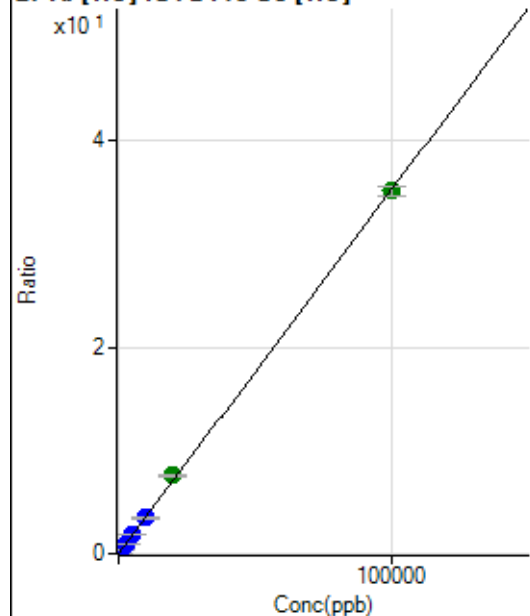
$$y = 9.3113\text{E-}004 * x + 0.0030$$

$$R = 0.9999$$

$$DL = 0.4079$$

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	97.07	0.0004	P	7.1
2	☐	20.000	19.446	1699.89	0.0073	P	1.6
3	☐	1000.000	1024.176	81891.78	0.3614	P	1.0
4	☐	2500.000	2548.668	203977.27	0.8987	P	1.6
5	☐	5000.000	5109.541	405182.33	1.8014	P	0.2
6	☐	10000.000	9803.063	808627.18	3.4557	P	1.8
7	☐	20000.000	21436.784	1785918.91	7.5562	A	2.6
8	☐	100000.00	99725.401	7953727.57	35.1506	A	2.3

$$y = 3.5247\text{E-}004 * x + 4.1298\text{E-}004$$

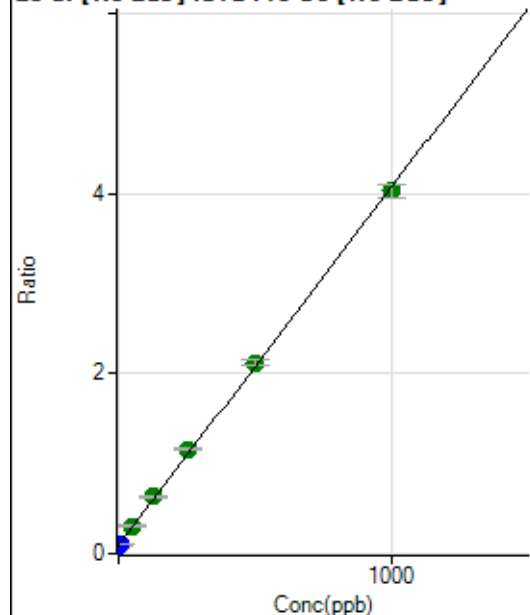
$$R = 0.9999$$

$$DL = 0.2502$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	707881.16	0.0925	P	0.3
2	☐	10.000	3.195	806879.39	0.1052	P	2.4
3	☐	50.000	53.546	2307639.70	0.3055	A	4.1
4	☐	125.000	136.241	4668538.04	0.6344	A	2.6
5	☐	250.000	268.003	8653650.63	1.1586	A	2.0
6	☐	500.000	508.778	16394999.32	2.1164	A	3.0
7	☐	1000.000	989.596	31133888.89	4.0291	A	3.9
8	☐			1376254.81	0.1837	A	1.2

$$y = 0.0040 * x + 0.0925$$

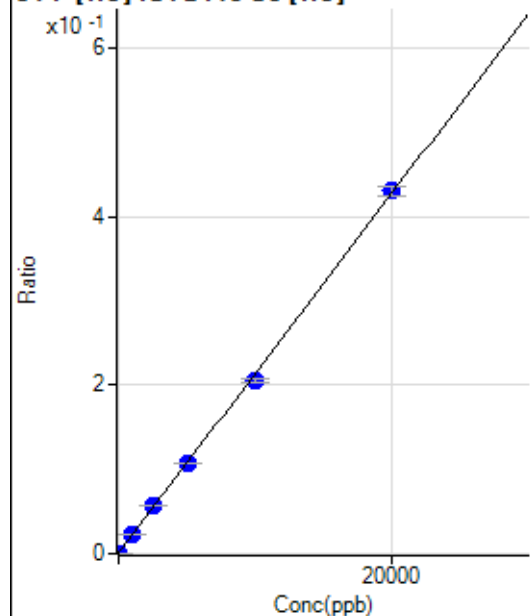
$$R = 0.9996$$

$$DL = 0.2394$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-7.571	116.67	0.0005	P	12.5
2	☐	0.000	7.571	191.67	0.0008	P	26.5
3	☐	1000.000	1041.669	5184.41	0.0229	P	7.1
4	☐	2500.000	2610.775	12797.72	0.0564	P	1.4
5	☐	5000.000	5022.718	24251.61	0.1078	P	0.7
6	☐	10000.000	9633.738	48248.09	0.2062	P	2.4
7	☐	20000.000	20161.521	101823.45	0.4308	P	2.7
8	☐			158.34	0.0007	P	13.8

$$y = 2.1336E-005 * x + 6.5796E-004$$

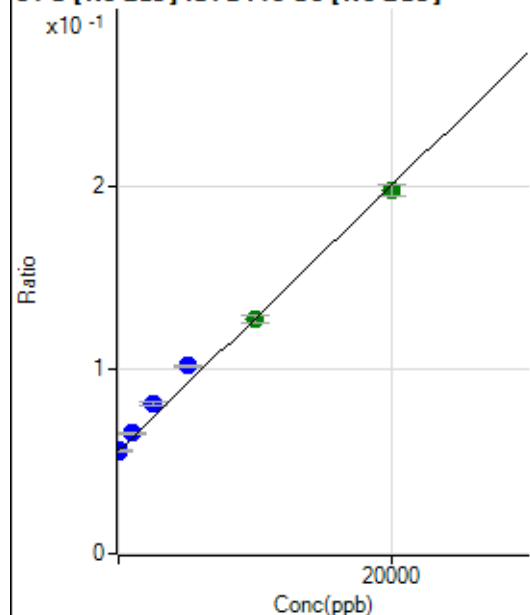
$$R = 0.9997$$

$$DL = 19.6$$

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	-40.566	426057.12	0.0557	P	2.1
2	☐	0.000	40.566	431552.97	0.0562	P	2.0
3	☐	1000.000	1338.610	495847.89	0.0656	P	2.1
4	☐	2500.000	3488.207	596870.13	0.0811	P	2.3
5	☐	5000.000	6378.149	761802.71	0.1020	P	1.9
6	☐	10000.000	9893.074	986621.96	0.1274	A	3.6
7	☐	20000.000	19568.469	1524109.23	0.1972	A	3.1
8	☐			372773.48	0.0497	P	2.4

$$y = 7.2192\text{E-}006 * x + 0.0560$$

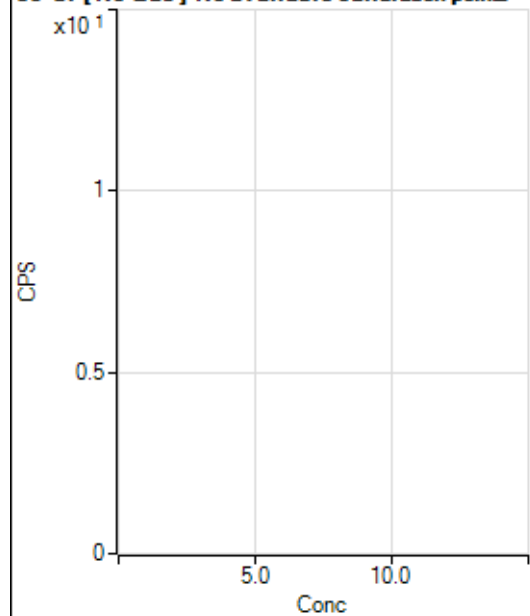
$$R = 0.9965$$

$$DL = 473.5$$

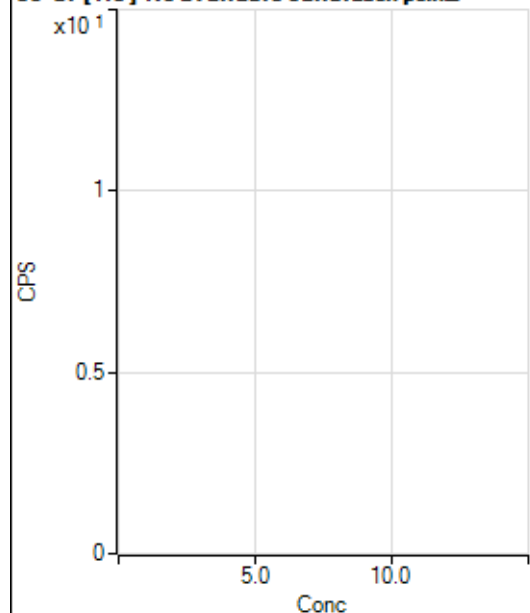
Weight: <None>

Min Conc: 0

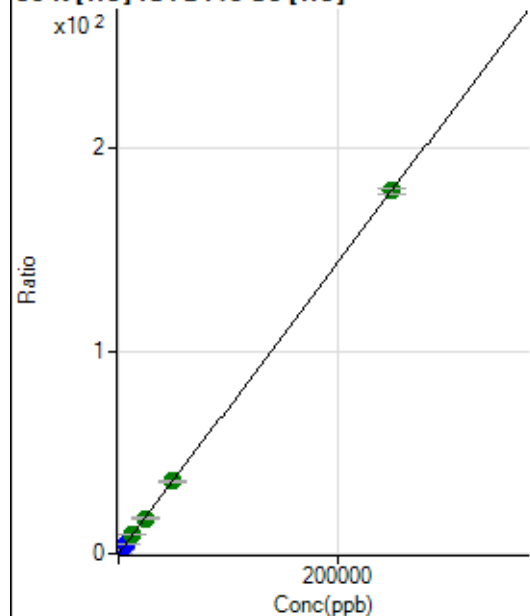
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			258761.04		P	0.9
2	☐			237516.35		P	1.6
3	☐			240947.96		P	1.2
4	☐			226207.06		P	0.3
5	☐			210046.77		P	1.5
6	☐			202032.31		P	0.9
7	☐			197034.17		P	1.9
8	☐			189158.31		P	0.5

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1947.41		P	1.3
2	☐			1627.91		P	4.5
3	☐			1608.46		P	2.3
4	☐			1636.25		P	4.6
5	☐			1388.99		P	0.9
6	☐			1452.89		P	9.2
7	☐			1427.89		P	8.6
8	☐			1391.77		P	7.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22045.00	0.0938	P	2.6
2	☐	500.000	464.014	99534.82	0.4256	P	1.6
3	☐	2500.000	2546.704	433807.07	1.9146	P	1.6
4	☐	6250.000	6214.917	1029658.49	4.5372	P	2.0
5	☐	12500.000	13056.621	2120081.80	9.4287	A	3.5
6	☐	25000.000	24309.007	4088580.08	17.4736	A	2.3
7	☐	50000.000	49649.310	8413153.75	35.5906	A	0.8
8	☐	250000.00	250111.88	40482292.92	178.9116	A	1.7

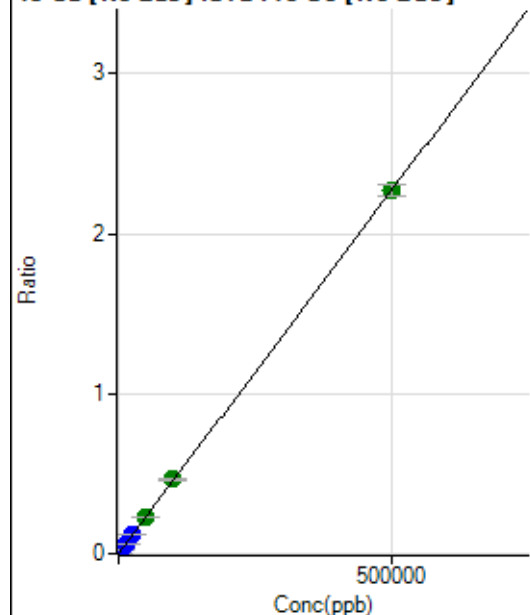
$$y = 7.1495\text{E-}004 * x + 0.0938$$

$$R = 1.0000$$

$$DL = 10.41$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	239.14	0.0000	P	13.4
2	☐	500.000	479.694	16940.76	0.0022	P	1.7
3	☐	5000.000	4999.146	171580.37	0.0227	P	4.0
4	☐	12500.000	12824.139	428325.47	0.0582	P	0.7
5	☐	25000.000	25367.426	859894.68	0.1151	P	1.4
6	☐	50000.000	49396.127	1737160.67	0.2242	A	0.4
7	☐	100000.00	102056.51	3580243.99	0.4631	A	1.1
8	☐	500000.00	499622.63	16985234.79	2.2670	A	3.1

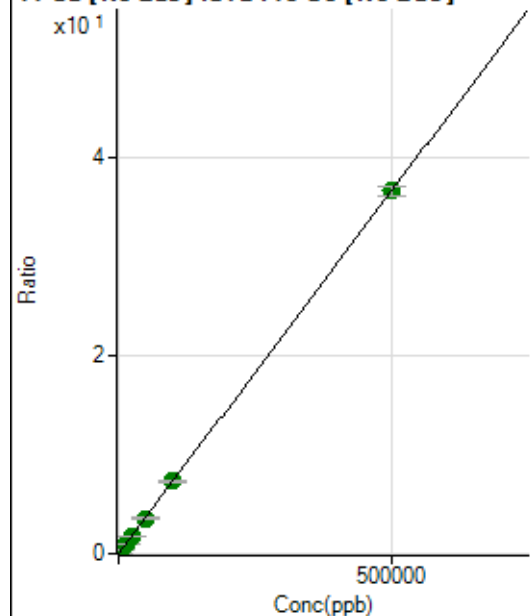
$$y = 4.5373\text{E-}006 * x + 3.1239\text{E-}005$$

$$R = 1.0000$$

$$DL = 2.778$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	15768.53	0.0021	P	2.6
2	☐	500.000	472.974	282172.58	0.0368	P	3.1
3	☐	5000.000	4948.382	2760157.22	0.3653	A	3.1
4	☐	12500.000	12614.314	6829350.40	0.9281	A	2.0
5	☐	25000.000	24982.612	13714926.90	1.8361	A	0.6
6	☐	50000.000	48576.965	27647324.75	3.5682	A	2.0
7	☐	100000.00	99993.595	56760922.06	7.3427	A	1.9
8	☐	500000.00	500142.13	275133892.0	36.7182	A	2.9

$$y = 7.3411\text{E-}005 * x + 0.0021$$

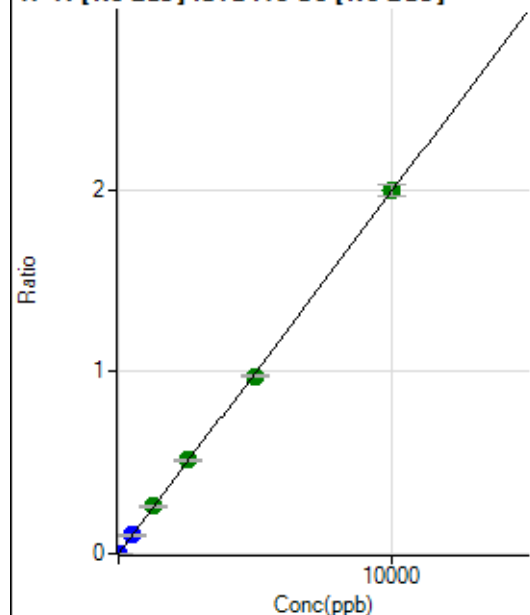
$$R = 1.0000$$

$$DL = 2.222$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	325.01	0.0000	P	5.9
2	☐	5.000	4.959	7885.71	0.0010	P	3.5
3	☐	500.000	510.408	766871.39	0.1015	P	2.7
4	☐	1250.000	1303.563	1906485.24	0.2591	A	0.8
5	☐	2500.000	2576.964	3825916.97	0.5122	A	0.8
6	☐	5000.000	4907.462	7557524.13	0.9754	A	1.5
7	☐	10000.000	10019.812	15389879.86	1.9914	A	3.1
8	☐			4592.56	0.0006	P	8.2

$$y = 1.9874\text{E-}004 * x + 4.2466\text{E-}005$$

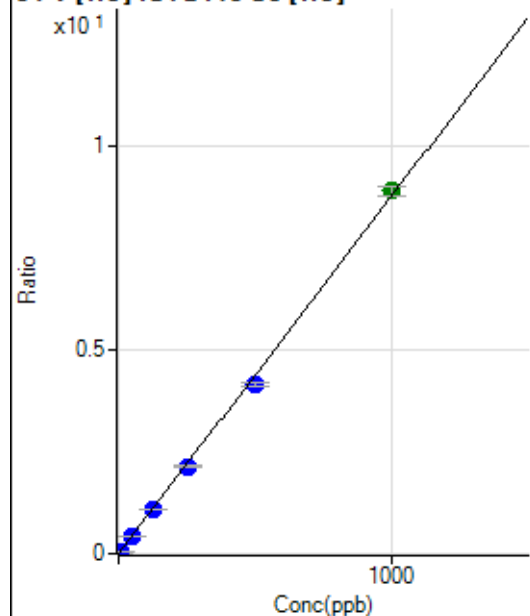
$$R = 0.9999$$

$$DL = 0.03766$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	34.7
2	☐	5.000	4.680	9614.44	0.0411	P	2.2
3	☐	50.000	49.266	97954.10	0.4323	P	1.1
4	☐	125.000	122.429	243787.13	1.0742	P	2.1
5	☐	250.000	244.087	481676.95	2.1416	P	1.1
6	☐	500.000	474.033	973116.50	4.1591	P	2.9
7	☐	1000.000	1014.822	2104719.10	8.9039	A	2.5
8	☐			674.47	0.0030	P	8.2

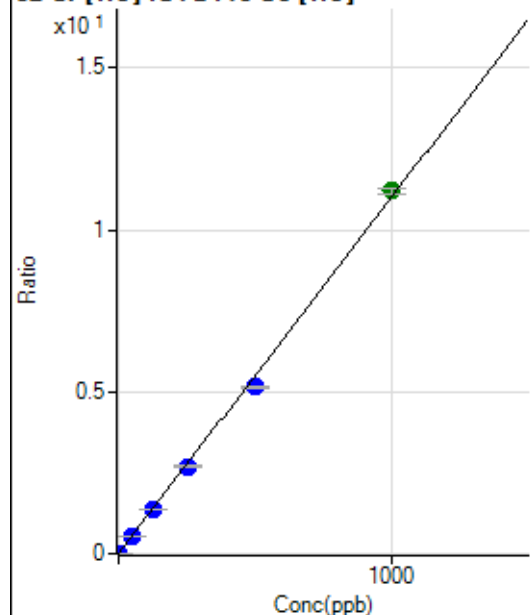
$$y = 0.0088 * x + 4.7279\text{E-}005$$

$$R = 0.9995$$

$$DL = 0.005604$$

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	1140.06	0.0049	P	4.8
2	☐	2.000	1.840	5870.14	0.0251	P	2.1
3	☐	50.000	49.233	123811.13	0.5465	P	2.5
4	☐	125.000	121.939	305623.41	1.3463	P	0.5
5	☐	250.000	243.581	603772.18	2.6845	P	2.1
6	☐	500.000	467.434	1204496.00	5.1472	P	1.4
7	☐	1000.000	1018.309	2649746.49	11.2075	A	1.3
8	☐			21487.39	0.0950	P	3.0

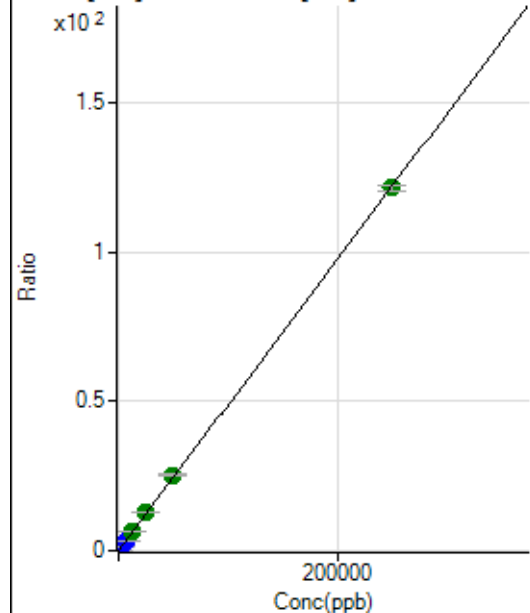
$$y = 0.0110 * x + 0.0049$$

$$R = 0.9992$$

$$DL = 0.06405$$

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	829.67	0.0035	P	12.0
2	☐	50.000	47.528	6238.50	0.0267	P	1.5
3	☐	2500.000	2640.244	292088.40	1.2890	P	0.9
4	☐	6250.000	6435.320	712204.55	3.1368	P	0.9
5	☐	12500.000	13365.766	1464277.88	6.5111	A	1.7
6	☐	25000.000	26420.351	3010232.50	12.8671	A	4.0
7	☐	50000.000	51843.670	5967954.59	25.2452	A	2.1
8	☐	250000.00	249439.90	27480858.48	121.4509	A	1.4

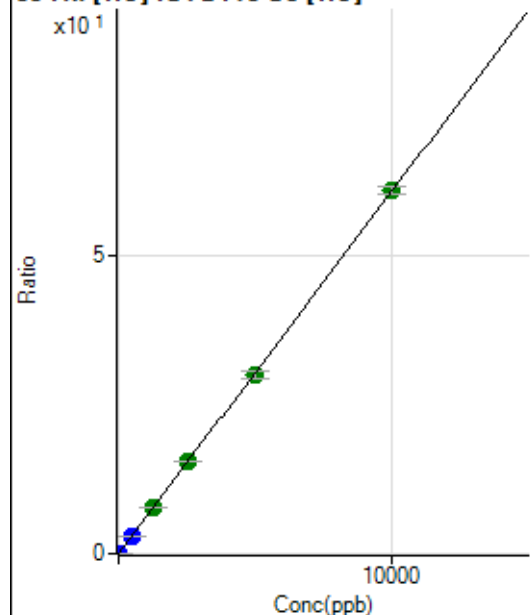
$$y = 4.8688E-004 * x + 0.0035$$

$$R = 1.0000$$

$$DL = 2.609$$

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	272.23	0.0012	P	12.5
2	☐	1.000	0.930	1591.22	0.0068	P	4.7
3	☐	500.000	498.108	685080.65	3.0234	P	1.0
4	☐	1250.000	1276.387	1757692.23	7.7455	A	3.0
5	☐	2500.000	2540.007	3466779.63	15.4123	A	1.0
6	☐	5000.000	4931.304	7000198.37	29.9212	A	3.7
7	☐	10000.000	10021.142	14373026.45	60.8032	A	2.0
8	☐			9323.13	0.0412	P	0.5

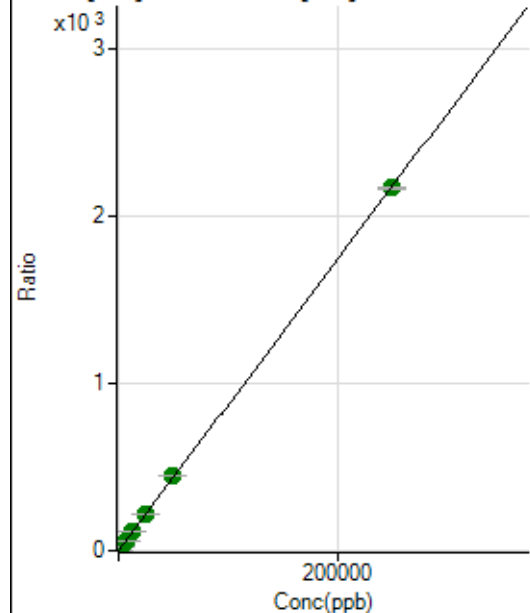
$$y = 0.0061 * x + 0.0012$$

$$R = 1.0000$$

$$DL = 0.07187$$

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	7466.88	0.0318	P	1.3
2	☐	50.000	48.977	106780.94	0.4565	P	0.5
3	☐	2500.000	2691.479	5295037.45	23.3745	A	4.7
4	☐	6250.000	6615.148	13029916.49	57.4039	A	0.8
5	☐	12500.000	13275.213	25902528.36	115.1655	A	0.5
6	☐	25000.000	25248.844	51241527.54	219.0108	A	3.1
7	☐	50000.000	51605.432	105803175.5	447.5972	A	1.1
8	☐	250000.00	249604.22	489836440.5	2,164.808	A	0.5

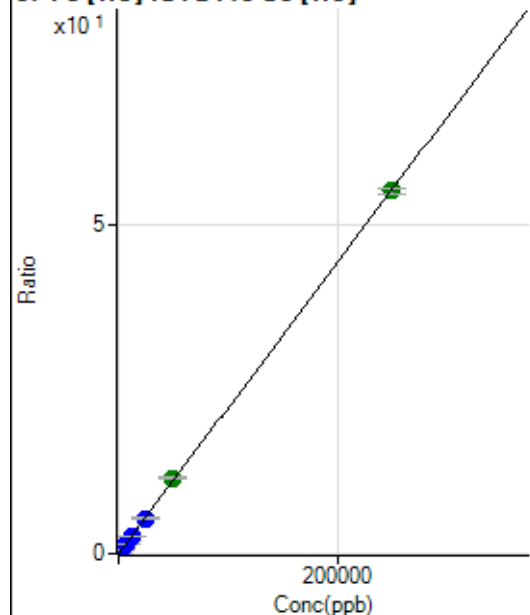
$$y = 0.0087 * x + 0.0318$$

$$R = 1.0000$$

$$DL = 0.1465$$

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	268.53	0.0011	P	8.7
2	☐	50.000	47.197	2702.15	0.0116	P	2.2
3	☐	2500.000	2568.071	128586.97	0.5675	P	2.0
4	☐	6250.000	6296.447	315313.37	1.3898	P	3.5
5	☐	12500.000	12517.603	621225.14	2.7618	P	0.6
6	☐	25000.000	24248.257	1251452.82	5.3490	P	3.3
7	☐	50000.000	52119.977	2717724.08	11.4959	A	1.1
8	☐	250000.00	249648.45	12458363.70	55.0597	A	1.3

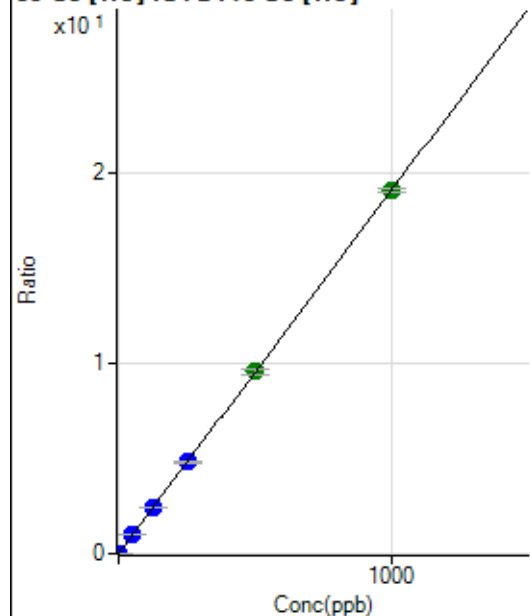
$$y = 2.2054\text{E-}004 * x + 0.0011$$

$$R = 1.0000$$

$$DL = 1.356$$

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	61.11	0.0003	P	8.5
2	☐	1.000	0.992	4499.65	0.0192	P	4.9
3	☐	50.000	51.667	223975.63	0.9885	P	1.0
4	☐	125.000	126.430	548922.87	2.4184	P	1.0
5	☐	250.000	252.236	1085116.90	4.8246	P	1.0
6	☐	500.000	501.656	2245065.38	9.5950	A	2.8
7	☐	1000.000	998.351	4513857.64	19.0949	A	1.0
8	☐			6848.39	0.0303	P	0.7

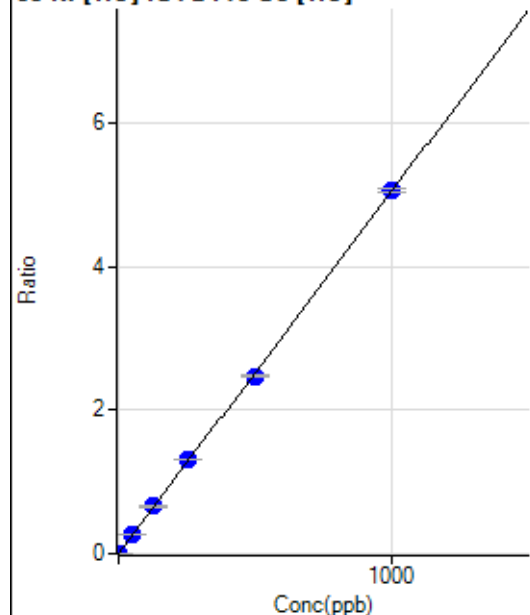
$$y = 0.0191 * x + 2.6005\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.003467$$

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	50.00	0.0002	P	20.5
2	☐	1.000	1.044	1282.29	0.0055	P	6.9
3	☐	50.000	54.077	61866.49	0.2730	P	1.6
4	☐	125.000	130.594	149539.04	0.6591	P	3.0
5	☐	250.000	261.187	296424.15	1.3179	P	0.9
6	☐	500.000	489.257	577673.63	2.4685	P	1.0
7	☐	1000.000	1001.672	1194607.57	5.0536	P	0.9
8	☐			6678.29	0.0295	P	0.5

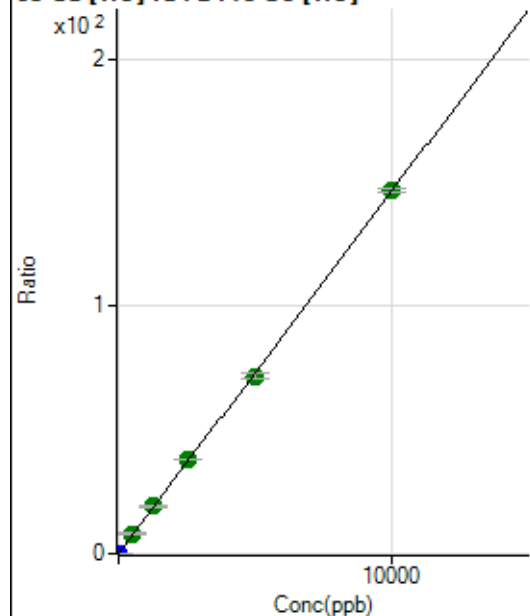
$$y = 0.0050 * x + 2.1286E-004$$

$$R = 0.9998$$

$$DL = 0.02591$$

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	583.35	0.0025	P	7.9
2	☐	2.000	2.037	7565.41	0.0323	P	2.2
3	☐	500.000	552.286	1835228.25	8.0984	A	1.9
4	☐	1250.000	1313.646	4369967.82	19.2591	A	3.1
5	☐	2500.000	2592.984	8549777.51	38.0128	A	0.9
6	☐	5000.000	4903.290	16817769.61	71.8794	A	2.9
7	☐	10000.000	10014.539	34703178.37	146.8047	A	0.9
8	☐			11997.41	0.0530	P	3.5

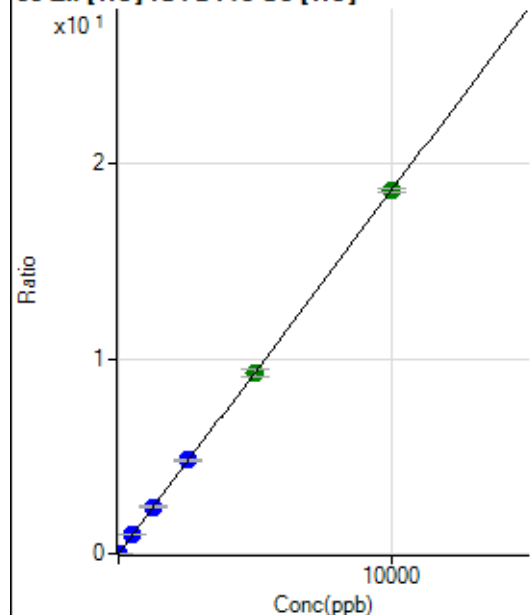
$$y = 0.0147 * x + 0.0025$$

$$R = 0.9999$$

$$DL = 0.04007$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	117.78	0.0005	P	19.6
2	☐	2.000	2.107	1035.61	0.0044	P	6.5
3	☐	500.000	526.007	222093.51	0.9802	P	1.2
4	☐	1250.000	1288.281	544603.24	2.3998	P	2.8
5	☐	2500.000	2573.242	1077972.06	4.7930	P	1.4
6	☐	5000.000	4979.075	2169593.89	9.2737	A	4.2
7	☐	10000.000	9986.067	4396419.20	18.5989	A	1.2
8	☐			4608.58	0.0204	P	1.8

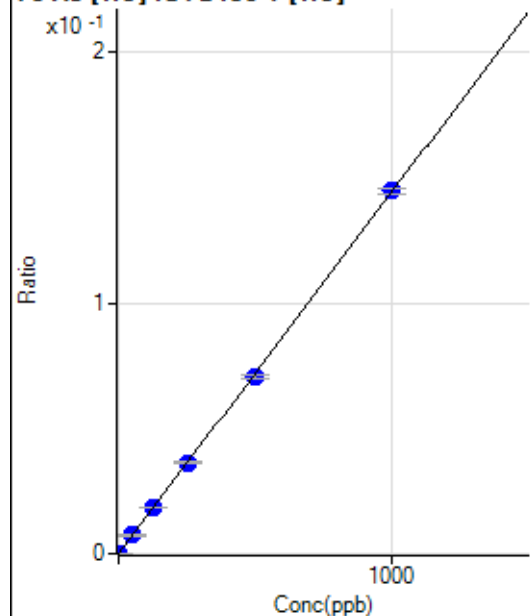
$$y = 0.0019 * x + 5.0155E-004$$

$$R = 1.0000$$

$$DL = 0.158$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	7.00	0.0000	P	25.7
2	☐	1.000	1.017	264.03	0.0002	P	5.2
3	☐	50.000	50.610	12589.53	0.0073	P	0.7
4	☐	125.000	128.589	30865.33	0.0185	P	1.9
5	☐	250.000	251.403	60280.41	0.0362	P	1.7
6	☐	500.000	490.014	120672.43	0.0706	P	2.6
7	☐	1000.000	1004.163	251909.21	0.1447	P	1.5
8	☐			115.34	0.0001	P	8.7

$$y = 1.4411E-004 * x + 3.9864E-006$$

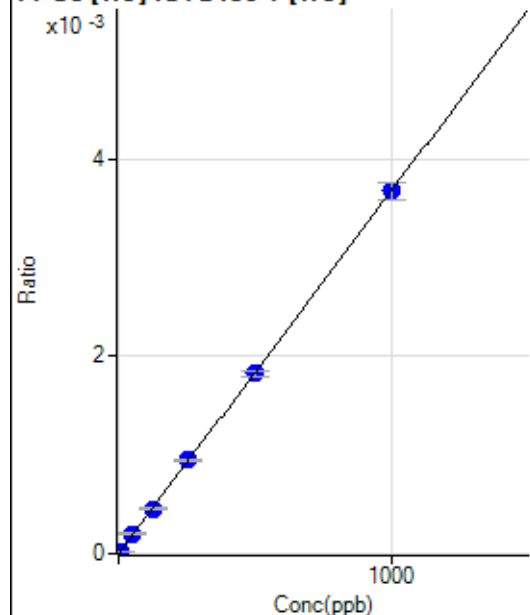
$$R = 0.9999$$

$$DL = 0.02132$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.001	32.22	0.0000	P	6.1
3	☐	50.000	54.504	345.56	0.0002	P	9.2
4	☐	125.000	122.456	750.03	0.0005	P	4.8
5	☐	250.000	258.697	1582.33	0.0010	P	2.4
6	☐	500.000	497.051	3122.60	0.0018	P	3.4
7	☐	1000.000	999.393	6393.75	0.0037	P	4.7
8	☐			2.22	0.0000	P	86.6

$$y = 3.6762\text{E-}006 * x + 0.0000\text{E+}000$$

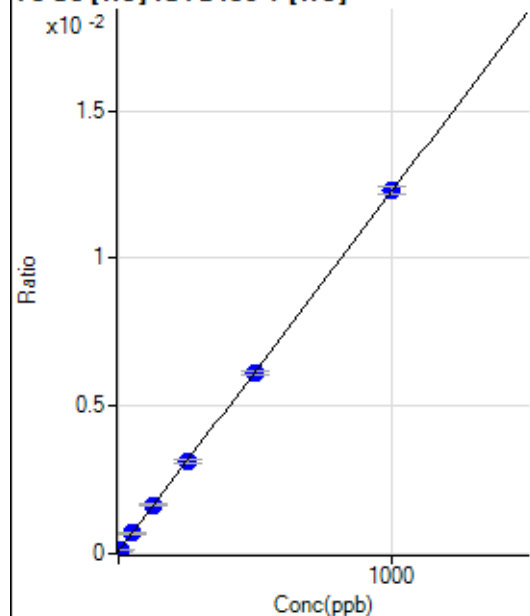
$$R = 0.9999$$

$$DL = 0$$

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	137.01	0.0001	P	10.5
2	☐	5.000	4.836	239.70	0.0001	P	1.7
3	☐	50.000	50.480	1195.51	0.0007	P	3.1
4	☐	125.000	129.059	2746.55	0.0017	P	5.5
5	☐	250.000	250.472	5207.16	0.0031	P	2.9
6	☐	500.000	494.661	10435.25	0.0061	P	1.9
7	☐	1000.000	1002.021	21389.68	0.0123	P	2.0
8	☐			116.34	0.0001	P	14.0

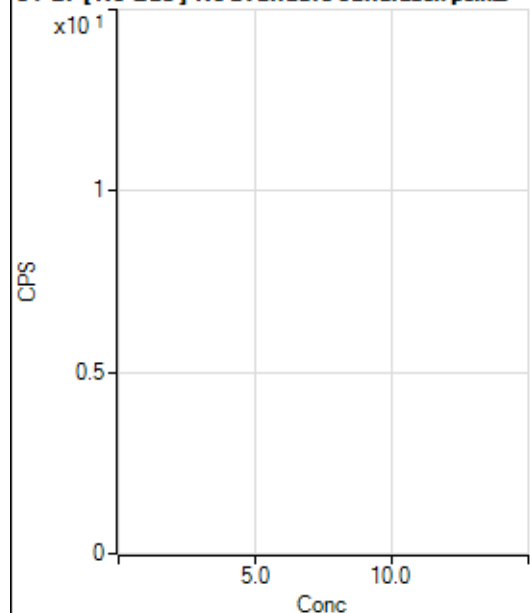
$$y = 1.2186\text{E-}005 * x + 7.7819\text{E-}005$$

$$R = 1.0000$$

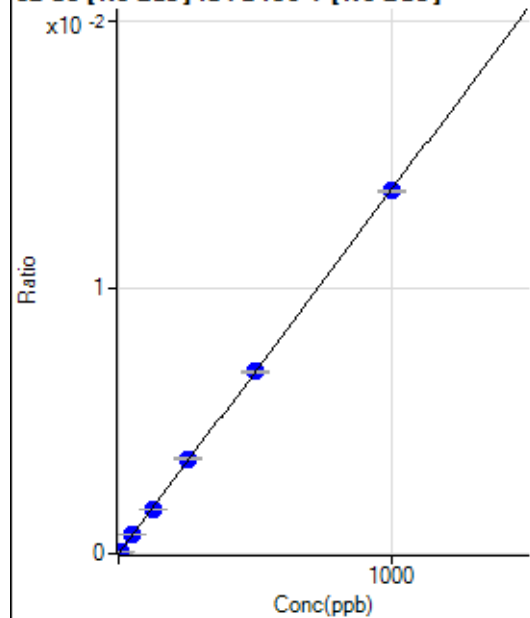
$$DL = 2.019$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			69846.53		P	1.8
2	☐			71573.83		P	3.5
3	☐			69108.46		P	1.5
4	☐			68660.39		P	3.0
5	☐			67639.92		P	2.2
6	☐			67318.32		P	3.6
7	☐			68207.43		P	2.5
8	☐			64521.75		P	0.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-67.14	0.0000	P	-212.
2	☐	5.000	5.496	1139.31	0.0001	P	29.6
3	☐	50.000	50.455	10726.36	0.0007	P	0.3
4	☐	125.000	123.496	26649.55	0.0017	P	0.9
5	☐	250.000	260.697	54279.61	0.0036	P	2.6
6	☐	500.000	500.965	108576.99	0.0068	P	1.2
7	☐	1000.000	997.006	217531.15	0.0136	P	0.2
8	☐			163.46	0.0000	P	93.5

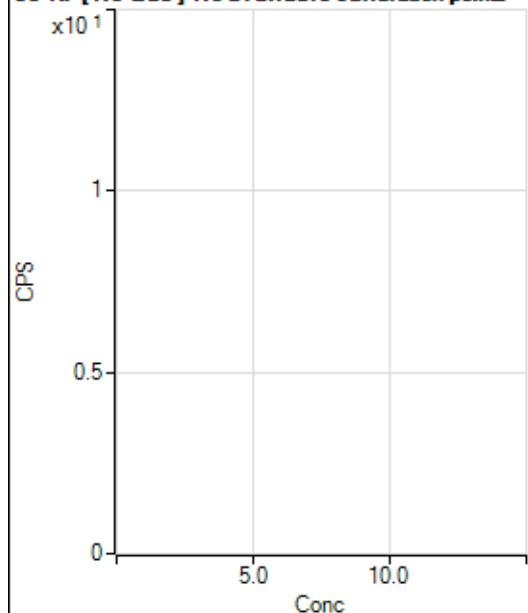
$$y = 1.3677E-005 * x - 4.1940E-006$$

$$R = 0.9999$$

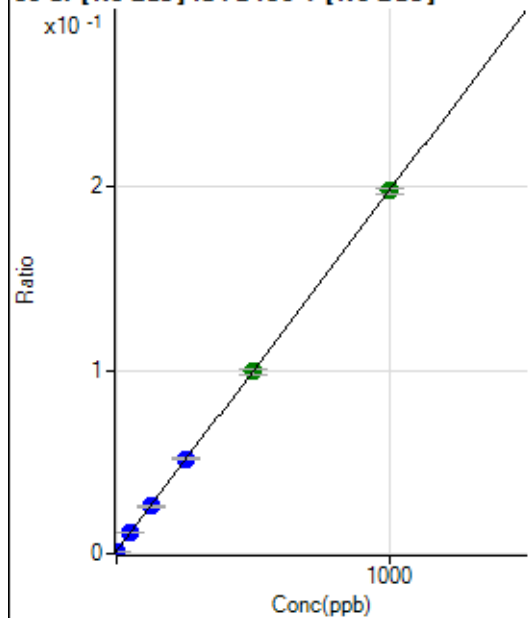
$$DL = 1.953$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13327.16		P	1.7
2	☐			13323.40		P	1.8
3	☐			13555.27		P	1.0
4	☐			12916.41		P	2.8
5	☐			12953.94		P	0.3
6	☐			12199.61		P	0.3
7	☐			12315.52		P	0.5
8	☐			12856.37		P	1.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	21850.95	0.0014	P	4.7
2	☐	1.000	0.870	24694.55	0.0015	P	2.9
3	☐	50.000	49.935	174695.21	0.0112	P	1.3
4	☐	125.000	123.781	406072.37	0.0257	P	2.2
5	☐	250.000	256.581	789088.96	0.0518	P	0.9
6	☐	500.000	498.218	1573459.22	0.0992	A	2.8
7	☐	1000.000	999.402	3153980.50	0.1977	A	1.3
8	☐			42142.16	0.0027	P	2.0

$$y = 1.9641\text{E-}004 * x + 0.0014$$

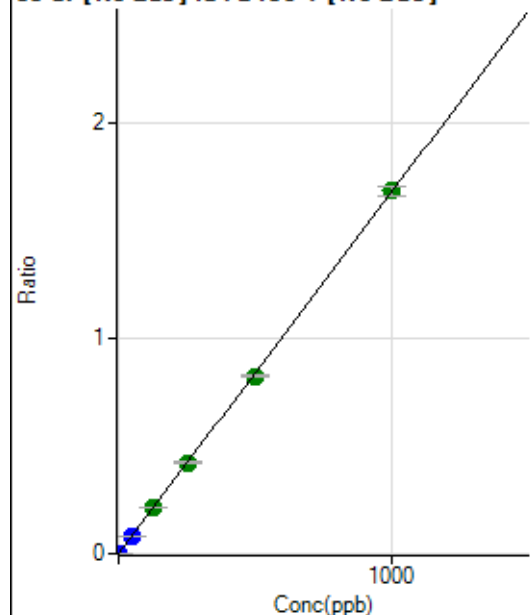
$$R = 1.0000$$

$$DL = 0.975$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	194.45	0.0000	P	41.8
2	☐	1.000	0.962	26175.31	0.0016	P	2.7
3	☐	50.000	50.148	1316373.11	0.0842	P	1.0
4	☐	125.000	127.176	3375531.63	0.2134	A	2.2
5	☐	250.000	252.648	6464303.44	0.4240	A	1.2
6	☐	500.000	491.055	13066856.54	0.8241	A	1.3
7	☐	1000.000	1003.531	26876740.53	1.6841	A	2.5
8	☐			191266.15	0.0124	P	1.2

$$y = 0.0017 * x + 1.2070E-005$$

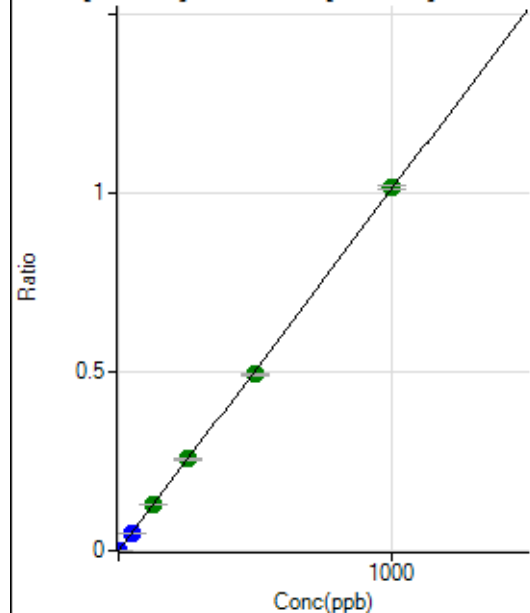
$$R = 0.9999$$

$$DL = 0.009023$$

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	652.81	0.0000	P	2.7
2	☐	1.000	0.909	15411.80	0.0010	P	2.3
3	☐	50.000	49.652	784632.49	0.0502	P	1.5
4	☐	125.000	126.565	2022246.09	0.1278	A	1.3
5	☐	250.000	253.340	3900430.82	0.2558	A	0.9
6	☐	500.000	488.526	7821888.54	0.4933	A	1.5
7	☐	1000.000	1004.724	16189225.19	1.0145	A	1.0
8	☐			11274.30	0.0007	P	0.4

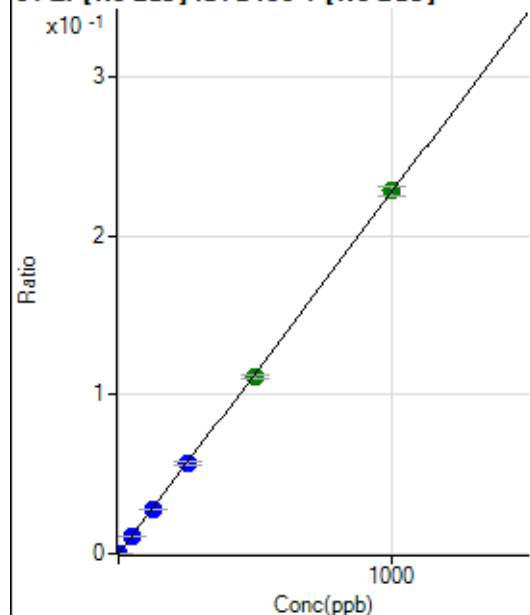
$$y = 0.0010 * x + 4.0720E-005$$

$$R = 0.9999$$

$$DL = 0.003302$$

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	94.45	0.0000	P	52.7
2	☐	1.000	0.910	3425.53	0.0002	P	2.0
3	☐	50.000	49.210	175171.18	0.0112	P	1.7
4	☐	125.000	123.680	445217.47	0.0281	P	0.9
5	☐	250.000	250.835	869883.19	0.0571	P	2.7
6	☐	500.000	490.752	1770425.02	0.1117	A	1.6
7	☐	1000.000	1004.620	3647430.24	0.2286	A	2.8
8	☐			2455.84	0.0002	P	1.9

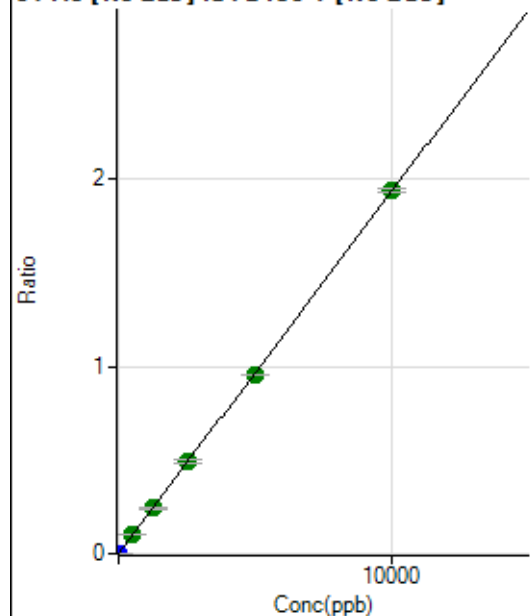
$$y = 2.2751\text{E-}004 * x + 5.9258\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.0412$$

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	277.79	0.0000	P	11.0
2	☐	5.000	5.788	18287.47	0.0011	P	2.9
3	☐	500.000	509.076	1540615.36	0.0985	A	1.2
4	☐	1250.000	1254.139	3838225.13	0.2426	A	1.3
5	☐	2500.000	2563.060	7556558.59	0.4959	A	3.7
6	☐	5000.000	4928.104	15118904.85	0.9534	A	0.3
7	☐	10000.000	10019.211	30930392.01	1.9383	A	1.1
8	☐			14858.41	0.0010	P	3.7

$$y = 1.9346\text{E-}004 * x + 1.7314\text{E-}005$$

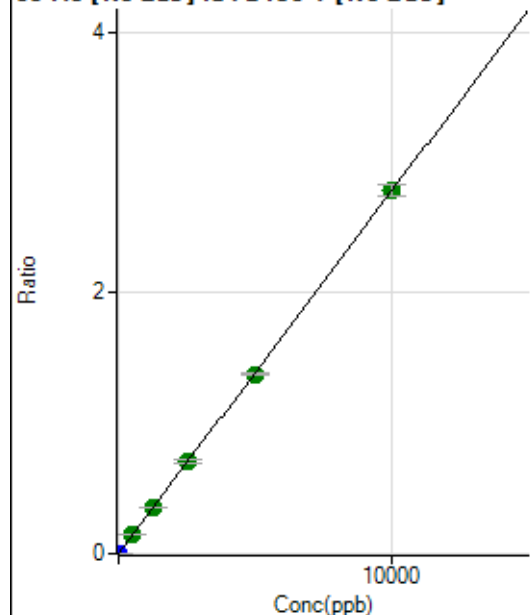
$$R = 0.9999$$

$$DL = 0.02946$$

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	125.00	0.0000	P	62.0
2	☐	5.000	4.900	22018.07	0.0014	P	1.8
3	☐	500.000	511.333	2221260.27	0.1420	A	2.4
4	☐	1250.000	1254.243	5510809.41	0.3484	A	0.5
5	☐	2500.000	2553.141	10806225.33	0.7092	A	4.3
6	☐	5000.000	4950.132	21803404.65	1.3750	A	0.5
7	☐	10000.000	10010.551	44370429.46	2.7806	A	3.2
8	☐			16882.93	0.0011	P	3.5

$$y = 2.7776\text{E-}004 * x + 7.7371\text{E-}006$$

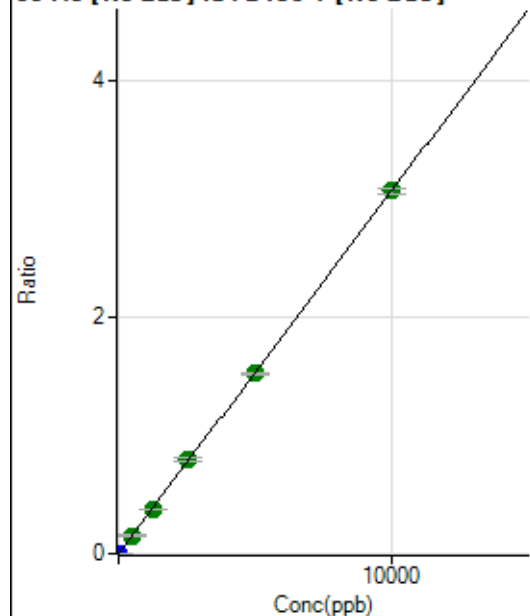
$$R = 1.0000$$

$$DL = 0.05182$$

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	458.36	0.0000	P	25.0
2	☐	5.000	4.967	25006.51	0.0016	P	0.9
3	☐	500.000	497.855	2391745.34	0.1530	A	2.5
4	☐	1250.000	1226.592	5959639.54	0.3768	A	1.9
5	☐	2500.000	2582.760	12090283.52	0.7934	A	3.7
6	☐	5000.000	4961.857	24170063.91	1.5242	A	0.5
7	☐	10000.000	10001.415	49023221.24	3.0721	A	1.6
8	☐			43843.31	0.0029	P	2.1

$$y = 3.0717\text{E-}004 * x + 2.8511\text{E-}005$$

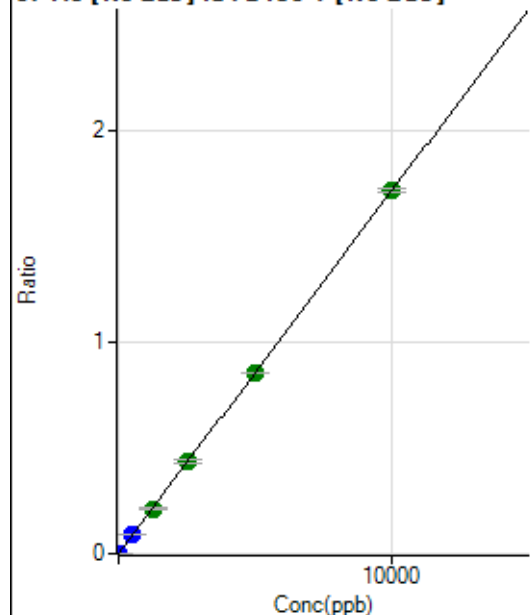
$$R = 0.9999$$

$$DL = 0.0695$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	41.66	0.0000	P	32.7
2	☐	5.000	4.783	13248.36	0.0008	P	2.1
3	☐	500.000	510.238	1369387.38	0.0876	P	1.4
4	☐	1250.000	1243.871	3376364.05	0.2135	A	2.3
5	☐	2500.000	2527.192	6609935.52	0.4337	A	4.1
6	☐	5000.000	4973.968	13536880.51	0.8537	A	0.6
7	☐	10000.000	10006.472	27404920.40	1.7174	A	1.2
8	☐			10651.64	0.0007	P	6.9

$$y = 1.7163\text{E-}004 * x + 2.5896\text{E-}006$$

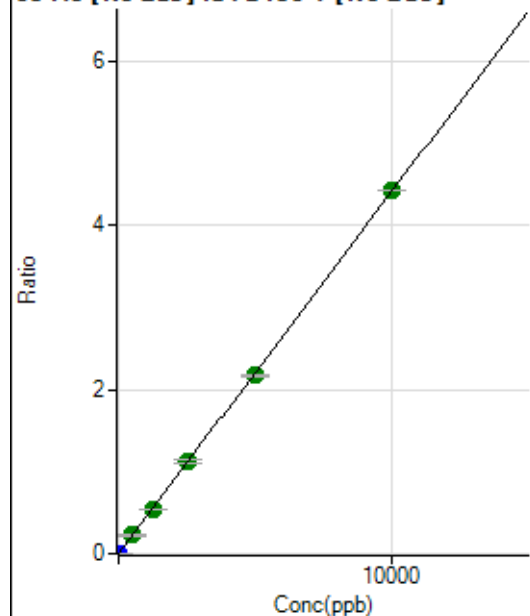
$$R = 1.0000$$

$$DL = 0.01481$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	166.67	0.0000	P	54.9
2	☐	5.000	4.857	34632.86	0.0022	P	3.5
3	☐	500.000	505.476	3487413.31	0.2230	A	0.5
4	☐	1250.000	1221.553	8522775.63	0.5389	A	3.7
5	☐	2500.000	2539.048	17067583.89	1.1201	A	4.6
6	☐	5000.000	4927.414	34466671.60	2.1737	A	1.2
7	☐	10000.000	10029.813	70604723.80	4.4245	A	0.1
8	☐			26732.23	0.0017	P	9.2

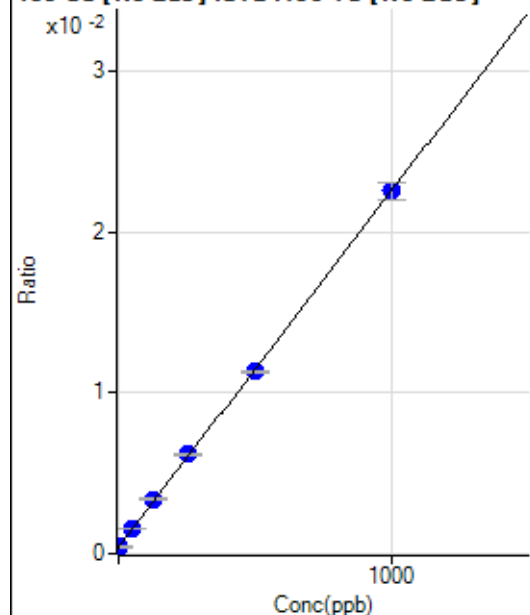
$$y = 4.4113\text{E-}004 * x + 1.0338\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.03861$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4436.94	0.0004	P	1.6
2	☐	1.000	1.386	4856.56	0.0004	P	5.1
3	☐	50.000	52.784	17592.27	0.0016	P	2.9
4	☐	125.000	134.718	37563.35	0.0034	P	4.0
5	☐	250.000	259.945	69174.62	0.0062	P	1.8
6	☐	500.000	493.281	135831.64	0.0113	P	0.7
7	☐	1000.000	999.519	264086.84	0.0225	P	4.5
8	☐			4364.72	0.0004	P	2.7

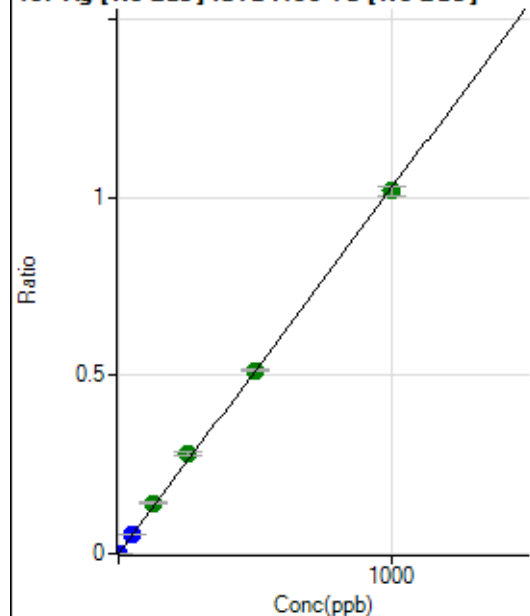
$$y = 2.2164\text{E-}005 * x + 3.9570\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.866$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	102.78	0.0000	P	25.3
2	☐	1.000	1.042	12280.81	0.0011	P	3.5
3	☐	50.000	54.142	624589.11	0.0556	P	1.1
4	☐	125.000	139.285	1588020.22	0.1430	A	3.7
5	☐	250.000	271.837	3133059.99	0.2790	A	3.6
6	☐	500.000	500.720	6162350.14	0.5139	A	0.9
7	☐	1000.000	992.188	11927447.57	1.0183	A	2.5
8	☐			4934.37	0.0004	P	15.3

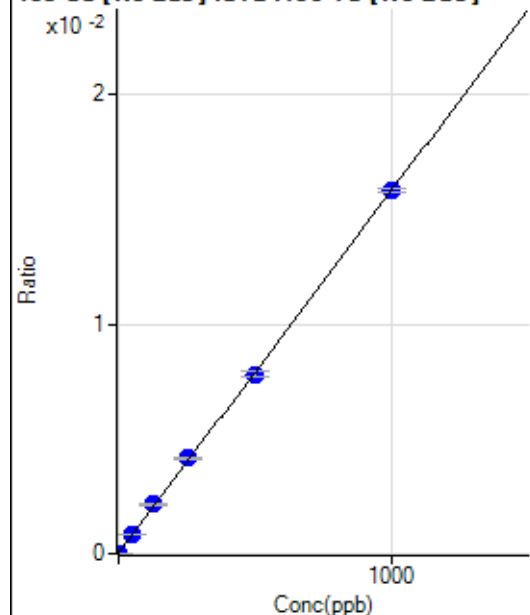
$$y = 0.0010 * x + 9.1758\text{E-}006$$

$$R = 0.9997$$

$$DL = 0.006774$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	180.56	0.0000	P	18.3
2	☐	1.000	1.293	416.68	0.0000	P	9.0
3	☐	50.000	52.889	9571.47	0.0009	P	3.7
4	☐	125.000	134.842	23841.76	0.0021	P	3.3
5	☐	250.000	261.612	46598.18	0.0041	P	3.4
6	☐	500.000	493.328	93607.74	0.0078	P	3.2
7	☐	1000.000	999.058	185073.53	0.0158	P	1.0
8	☐			202.78	0.0000	P	31.6

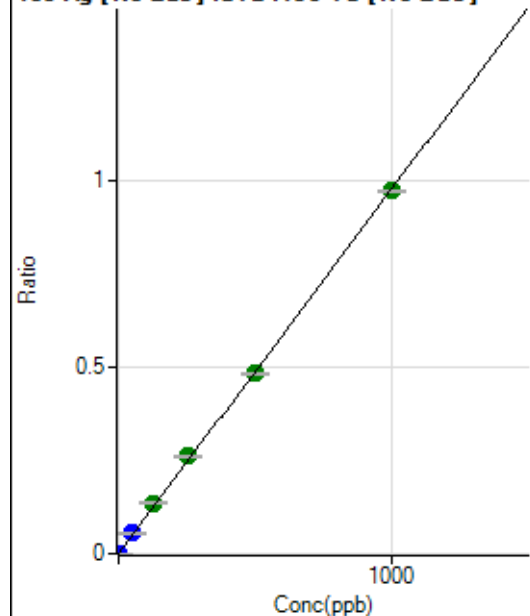
$$y = 1.5798\text{E-}005 * x + 1.6111\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.5598$$

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	50.00	0.0000	P	28.5
2	☐	1.000	1.020	11405.09	0.0010	P	3.7
3	☐	50.000	55.429	608580.15	0.0542	P	3.0
4	☐	125.000	138.734	1505983.21	0.1355	A	2.4
5	☐	250.000	267.253	2932801.46	0.2611	A	3.0
6	☐	500.000	495.791	5807488.11	0.4844	A	1.0
7	☐	1000.000	995.803	11396857.29	0.9729	A	0.4
8	☐			4548.08	0.0004	P	8.0

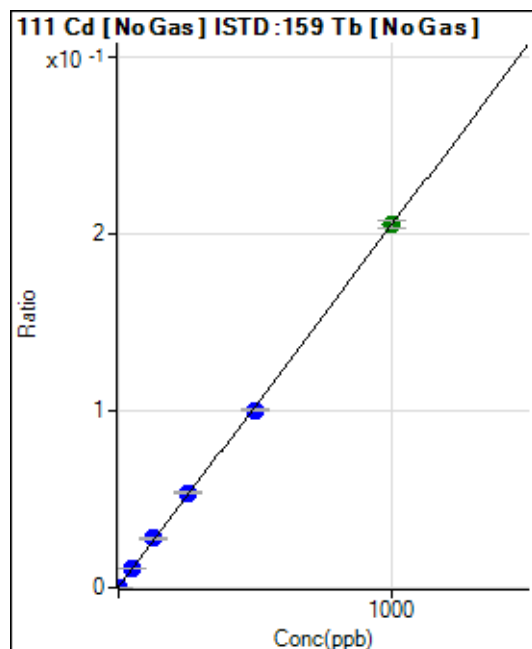
$$y = 9.7701\text{E-}004 * x + 4.4557\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.003904$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3003.08	0.0003	P	2.4
2	☐	1.000	1.076	5558.17	0.0005	P	4.3
3	☐	50.000	53.177	125329.78	0.0112	P	3.3
4	☐	125.000	134.908	309764.39	0.0279	P	3.1
5	☐	250.000	261.202	603499.66	0.0537	P	3.5
6	☐	500.000	489.879	1205505.12	0.1005	P	0.9
7	☐	1000.000	1000.862	2403224.60	0.2052	A	2.0
8	☐			3530.04	0.0003	P	3.6

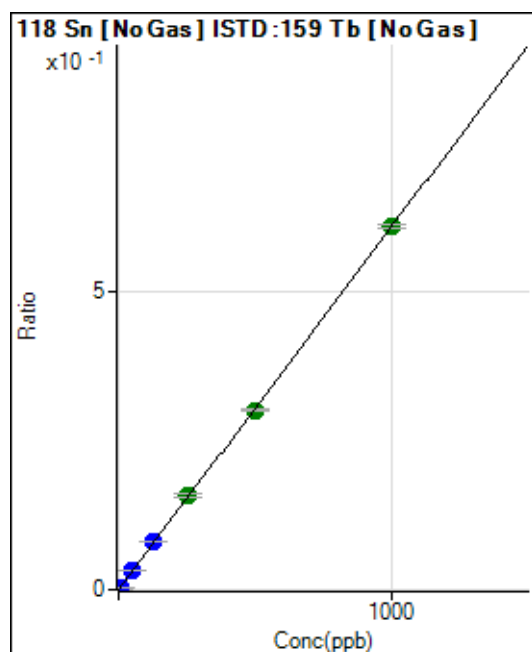
$$y = 2.0471\text{E-}004 * x + 2.6782\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.09298$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	877.83	0.0001	P	14.7
2	☐	5.000	5.089	36293.68	0.0032	P	3.0
3	☐	50.000	52.272	359636.11	0.0320	P	0.6
4	☐	125.000	132.665	901089.65	0.0811	P	1.5
5	☐	250.000	260.082	1783989.43	0.1589	A	4.6
6	☐	500.000	493.364	3612947.22	0.3014	A	1.0
7	☐	1000.000	999.725	7152019.60	0.6106	A	1.1
8	☐			6448.93	0.0006	P	5.4

$$y = 6.1065\text{E-}004 * x + 7.8343\text{E-}005$$

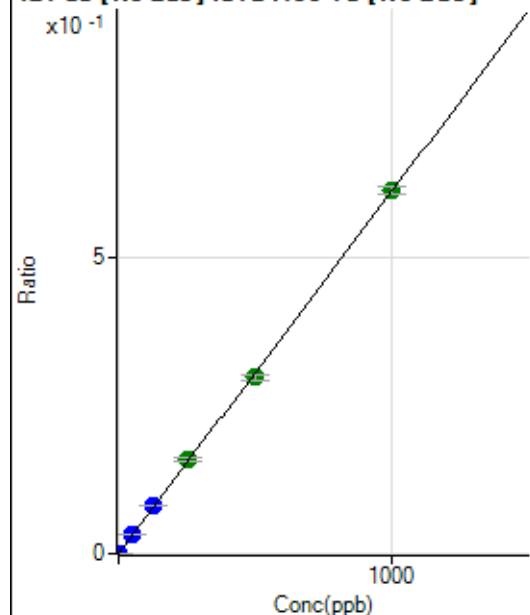
$$R = 0.9999$$

$$DL = 0.05666$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	58.34	0.0000	P	38.0
2	☐	2.000	1.947	13609.94	0.0012	P	5.7
3	☐	50.000	51.491	353760.28	0.0315	P	0.6
4	☐	125.000	131.565	893507.14	0.0804	P	2.1
5	☐	250.000	260.961	1791512.47	0.1595	A	2.9
6	☐	500.000	487.814	3573664.97	0.2982	A	3.6
7	☐	1000.000	1002.457	7176585.92	0.6127	A	2.2
8	☐			5926.48	0.0005	P	6.3

$$y = 6.1119\text{E-}004 * x + 5.2044\text{E-}006$$

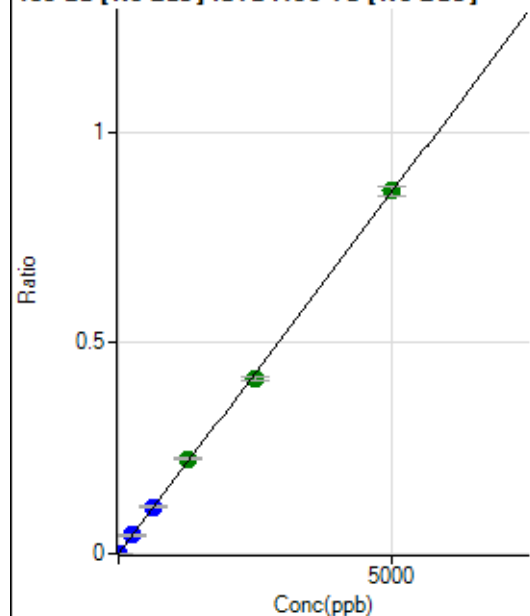
$$R = 0.9998$$

$$DL = 0.009706$$

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	47.22	0.0000	P	51.4
2	☐	10.000	9.355	18337.97	0.0016	P	1.9
3	☐	250.000	255.502	492684.01	0.0438	P	2.4
4	☐	625.000	648.744	1236730.95	0.1113	P	3.2
5	☐	1250.000	1309.632	2524355.87	0.2247	A	2.8
6	☐	2500.000	2425.588	4988819.17	0.4162	A	2.7
7	☐	5000.000	5019.056	10087048.06	0.8612	A	2.4
8	☐			5756.95	0.0005	P	4.2

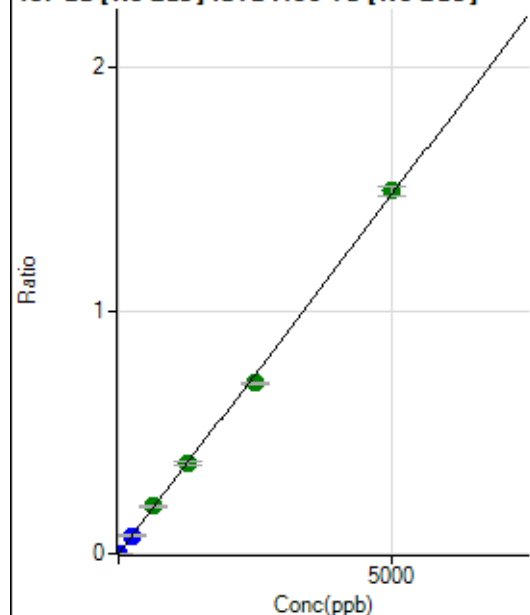
$$y = 1.7158\text{E-}004 * x + 4.2178\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.03794$$

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	33.33	0.0000	P	0.7
2	☐	10.000	9.620	32408.98	0.0028	P	0.4
3	☐	250.000	253.253	840596.60	0.0748	P	3.2
4	☐	625.000	660.540	2168131.28	0.1951	A	1.5
5	☐	1250.000	1258.811	4176668.19	0.3718	A	3.6
6	☐	2500.000	2374.601	8408464.16	0.7014	A	2.0
7	☐	5000.000	5055.892	17491974.70	1.4934	A	2.9
8	☐			10415.42	0.0009	P	3.1

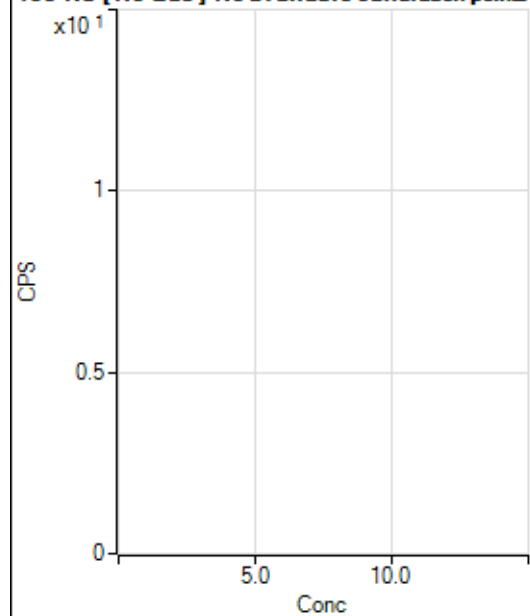
$$y = 2.9538E-004 * x + 2.9727E-006$$

$$R = 0.9995$$

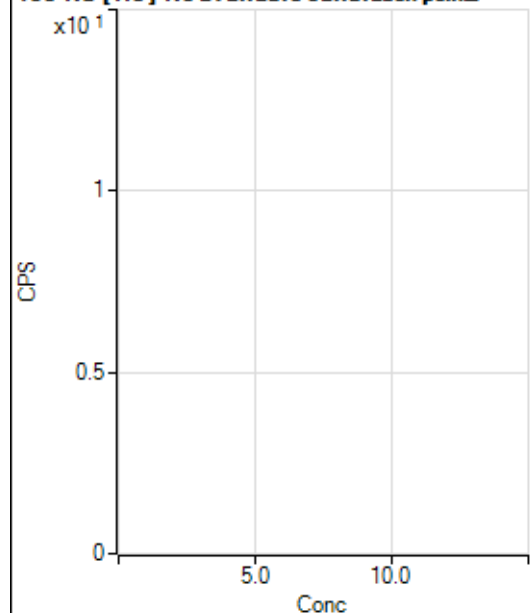
$$DL = 0.0002058$$

Weight: <None>

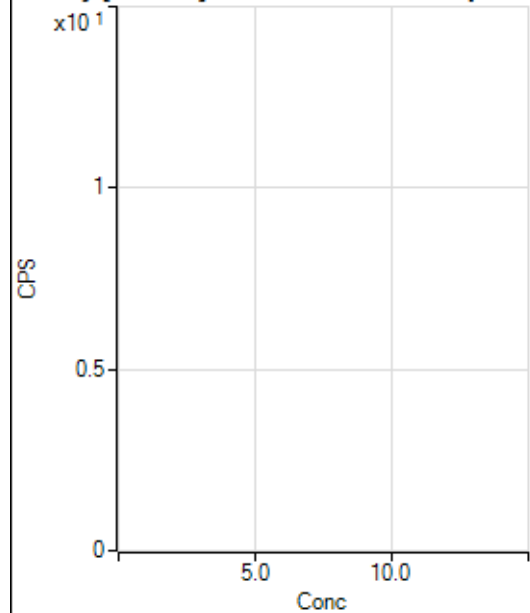
Min Conc: 0

150 Nd [No Gas] No available calibration points

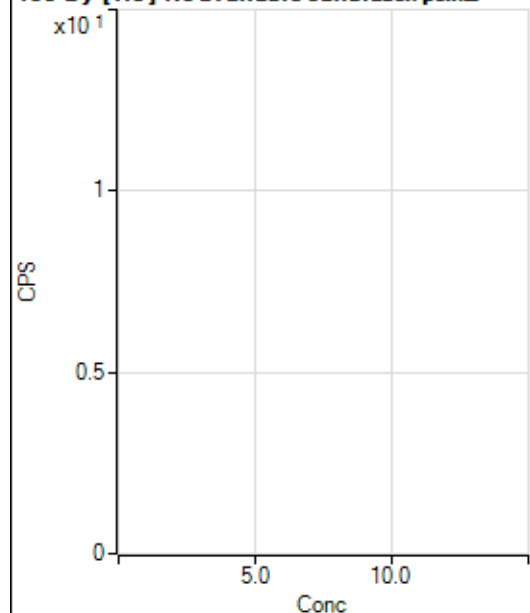
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			8.89		P	114.5
2	☐			13.33		P	86.6
3	☐			33.33		P	52.9
4	☐			97.78		P	10.4
5	☐			151.11		P	17.8
6	☐			268.89		P	14.3
7	☐			628.92		P	6.4
8	☐			128.89		P	20.9

150 Nd [He] No available calibration points

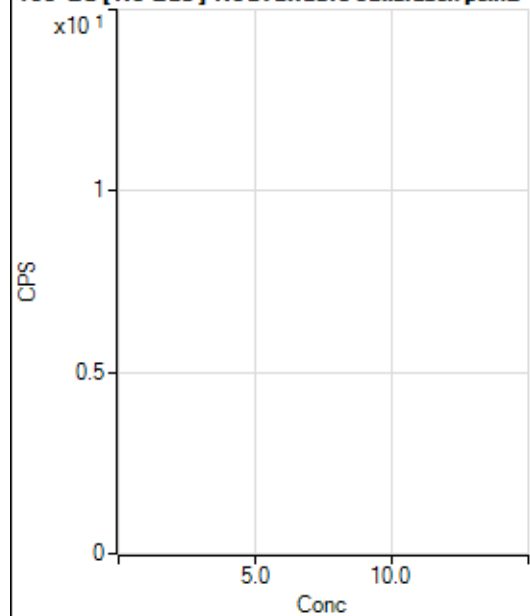
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.2
2	☐			1.11		P	173.2
3	☐			2.22		P	86.6
4	☐			5.56		P	34.7
5	☐			16.67		P	34.6
6	☐			27.78		P	50.0
7	☐			46.67		P	37.8
8	☐			51.11		P	3.8

156 Dy [No Gas] No available calibration points

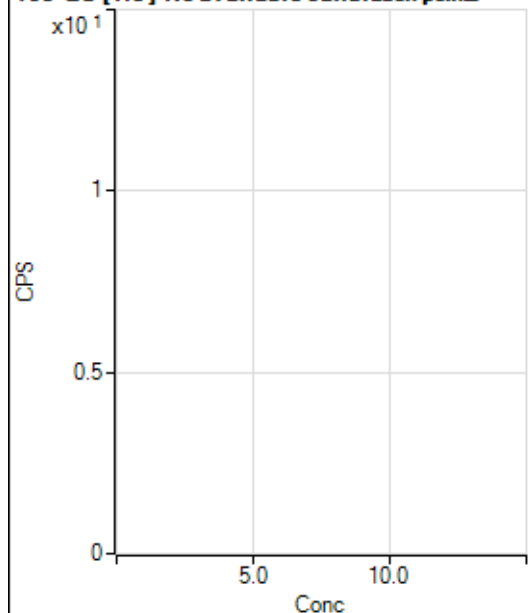
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.0
2	☐			5.55		P	86.6
3	☐			22.22		P	78.1
4	☐			63.89		P	7.5
5	☐			138.89		P	22.7
6	☐			275.01		P	28.9
7	☐			472.25		P	13.0
8	☐			994.51		P	2.7

156 Dy [He] No available calibration points

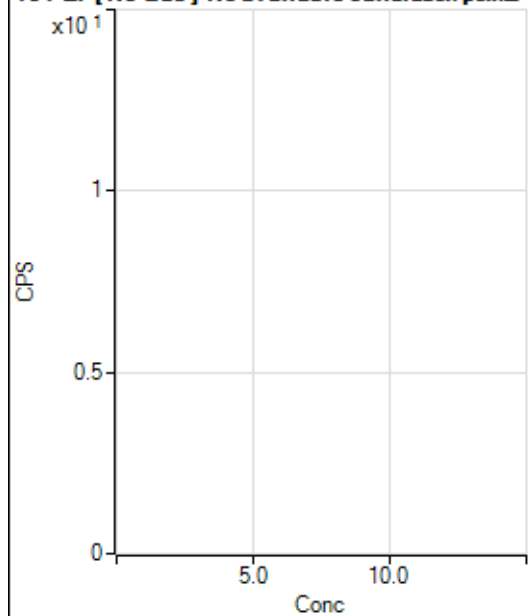
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.1
2	☐			1.11		P	173.2
3	☐			10.00		P	57.8
4	☐			17.78		P	65.8
5	☐			43.33		P	33.5
6	☐			84.45		P	16.0
7	☐			191.11		P	14.2
8	☐			296.67		P	8.9

160 Gd [No Gas] Noavailable calibration poin_

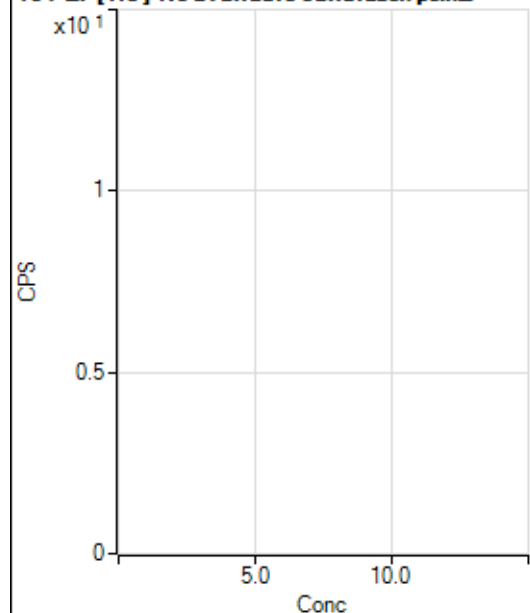
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			55.56		P	45.8
2	☐			111.11		P	11.5
3	☐			86.11		P	20.1
4	☐			75.00		P	29.4
5	☐			161.12		P	24.4
6	☐			238.90		P	11.2
7	☐			394.46		P	19.5
8	☐			766.71		P	13.9

160 Gd [He] No available calibration points

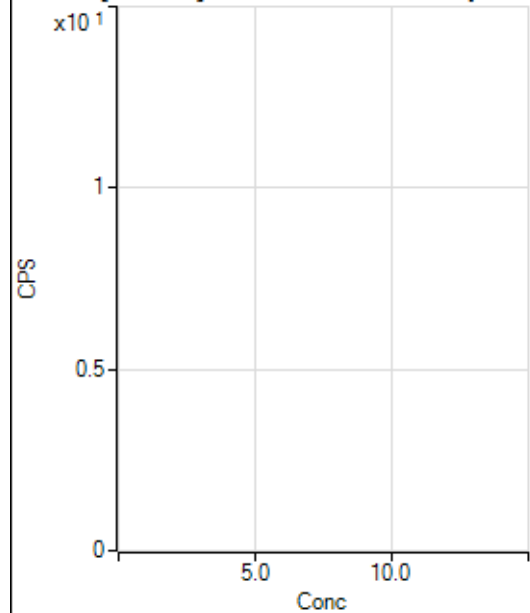
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			72.22		P	22.8
2	☐			78.89		P	8.8
3	☐			86.67		P	10.2
4	☐			90.00		P	19.6
5	☐			107.78		P	7.1
6	☐			156.67		P	11.3
7	☐			261.12		P	5.2
8	☐			356.67		P	8.1

164 Er [No Gas] No available calibration points

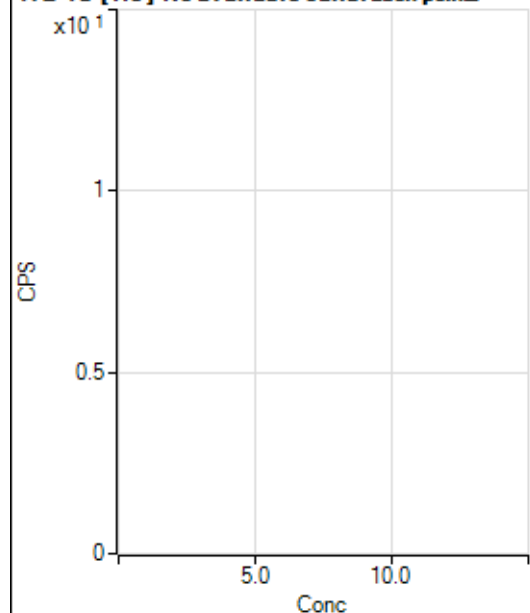
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			97.23		P	17.8
2	☐			63.89		P	41.9
3	☐			94.45		P	27.0
4	☐			144.45		P	20.3
5	☐			108.34		P	7.7
6	☐			130.56		P	13.3
7	☐			144.45		P	3.3
8	☐			172.23		P	11.2

164 Er [He] No available calibration points

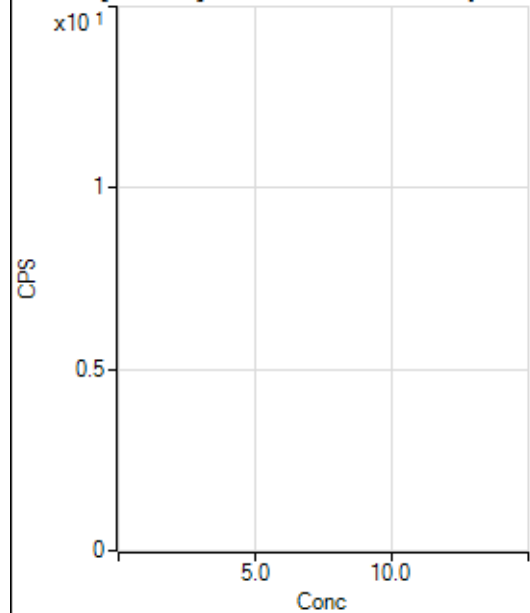
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24.45		P	55.1
2	☐			23.33		P	14.3
3	☐			34.44		P	22.3
4	☐			40.00		P	30.0
5	☐			46.67		P	21.4
6	☐			55.56		P	40.0
7	☐			76.67		P	26.5
8	☐			47.78		P	35.1

172 Yb [No Gas] No available calibration points

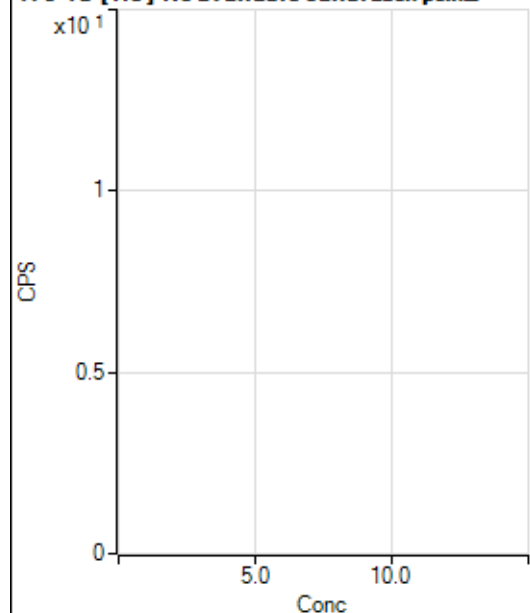
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			52.78		P	9.1
2	☐			69.45		P	30.2
3	☐			44.45		P	28.7
4	☐			88.89		P	44.3
5	☐			97.23		P	17.8
6	☐			116.67		P	21.4
7	☐			144.45		P	34.8
8	☐			222.23		P	15.2

172 Yb [He] No available calibration points

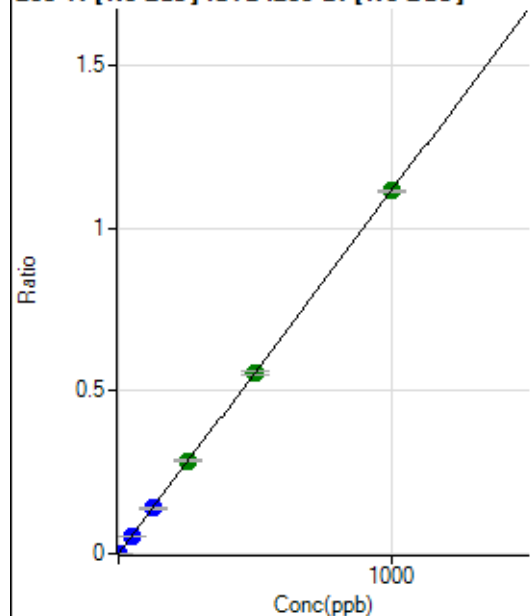
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	16.7
2	☐			31.48		P	36.7
3	☐			24.08		P	26.6
4	☐			40.74		P	20.8
5	☐			25.92		P	49.5
6	☐			29.63		P	21.7
7	☐			29.63		P	28.6
8	☐			81.48		P	37.6

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1464.01		P	7.1
2	☐			1527.92		P	12.2
3	☐			2814.28		P	7.8
4	☐			5448.54		P	5.1
5	☐			9039.44		P	0.7
6	☐			17100.36		P	2.0
7	☐			33131.14		P	2.8
8	☐			1339.00		P	7.3

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5643.91		P	6.1
2	☐			5545.71		P	6.7
3	☐			6086.70		P	2.2
4	☐			7061.26		P	4.0
5	☐			8589.99		P	1.6
6	☐			11851.79		P	3.5
7	☐			18687.54		P	3.3
8	☐			5386.38		P	5.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	233.34	0.0000	P	10.6
2	☐	1.000	0.883	7021.58	0.0010	P	6.0
3	☐	50.000	48.203	359460.45	0.0539	P	2.4
4	☐	125.000	124.710	933045.45	0.1393	P	3.6
5	☐	250.000	256.538	1902530.79	0.2865	A	2.6
6	☐	500.000	498.133	3849853.34	0.5563	A	3.0
7	☐	1000.000	999.425	7448336.80	1.1162	A	0.8
8	☐			2383.62	0.0004	P	9.2

$$y = 0.0011 * x + 3.4670E-005$$

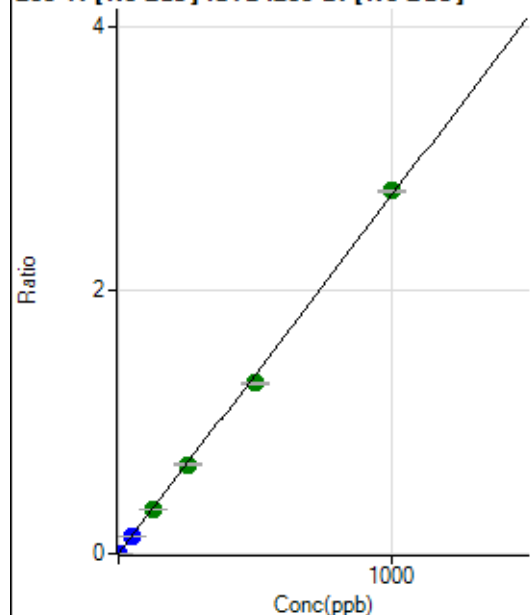
$$R = 1.0000$$

$$DL = 0.009852$$

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	797.27	0.0001	P	12.6
2	☐	1.000	0.912	17868.36	0.0026	P	2.8
3	☐	50.000	49.017	889389.66	0.1333	P	4.2
4	☐	125.000	122.975	2239074.07	0.3343	A	2.6
5	☐	250.000	247.609	4469728.40	0.6729	A	2.1
6	☐	500.000	475.821	8949534.40	1.2930	A	1.1
7	☐	1000.000	1012.990	18368844.16	2.7526	A	0.7
8	☐			5267.92	0.0009	P	9.9

$$y = 0.0027 * x + 1.1849E-004$$

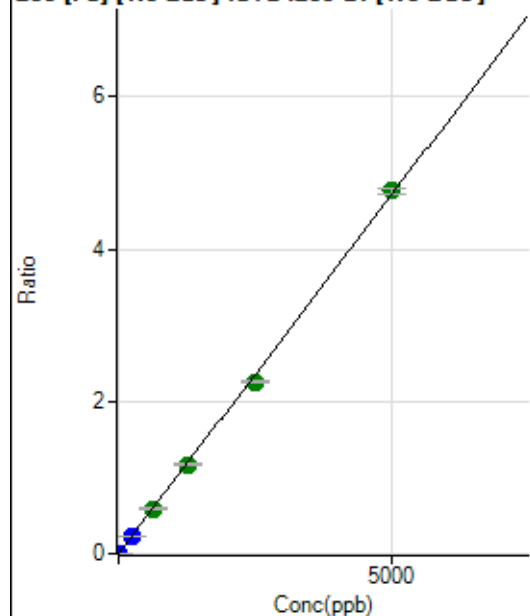
$$R = 0.9996$$

$$DL = 0.01652$$

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	798.19	0.0001	P	8.5
2	☐	1.000	0.913	6738.91	0.0010	P	3.1
3	☐	250.000	239.541	1506599.63	0.2258	P	2.9
4	☐	625.000	621.725	3924004.78	0.5858	A	3.0
5	☐	1250.000	1238.863	7750003.41	1.1672	A	2.6
6	☐	2500.000	2394.605	15614069.33	2.2560	A	1.6
7	☐	5000.000	5056.414	31788010.20	4.7636	A	1.3
8	☐			9711.20	0.0017	P	1.3

$$y = 9.4208E-004 * x + 1.1844E-004$$

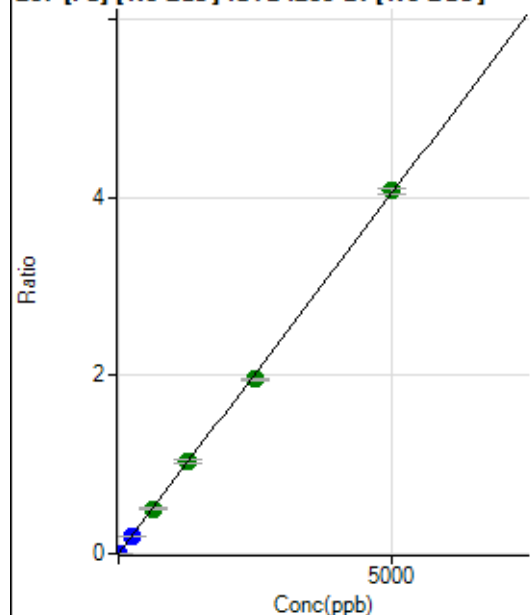
$$R = 0.9997$$

$$DL = 0.032$$

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	703.73	0.0001	P	7.0
2	☐	1.000	0.944	5975.58	0.0009	P	1.6
3	☐	250.000	245.324	1324301.03	0.1984	P	1.9
4	☐	625.000	623.840	3379027.04	0.5044	A	2.2
5	☐	1250.000	1278.731	6863132.21	1.0338	A	4.0
6	☐	2500.000	2415.768	13518256.21	1.9530	A	0.7
7	☐	5000.000	5035.312	27163622.37	4.0706	A	1.5
8	☐			8525.20	0.0015	P	1.1

$$y = 8.0839E-004 * x + 1.0453E-004$$

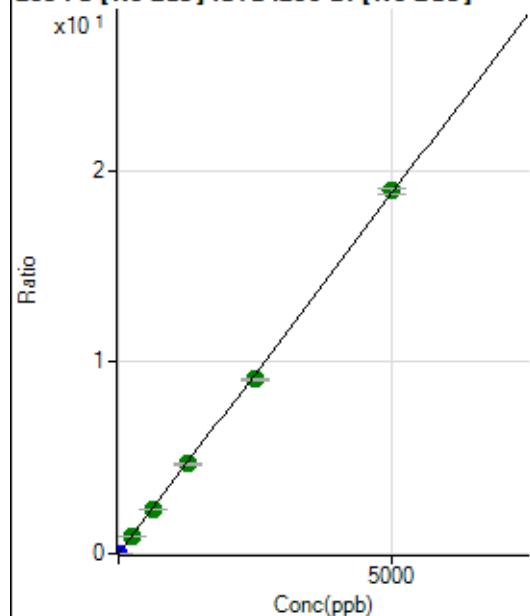
$$R = 0.9998$$

$$DL = 0.02726$$

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	3202.07	0.0005	P	1.9
2	☐	1.000	0.912	26829.94	0.0039	P	1.7
3	☐	250.000	245.130	6142933.02	0.9204	A	0.9
4	☐	625.000	614.549	15454357.98	2.3067	A	1.3
5	☐	1250.000	1245.836	31043302.66	4.6757	A	2.9
6	☐	2500.000	2424.616	62979121.89	9.0992	A	1.2
7	☐	5000.000	5040.283	126223704.9	18.9150	A	1.3
8	☐			38816.18	0.0067	P	0.4

$$y = 0.0038 * x + 4.7535E-004$$

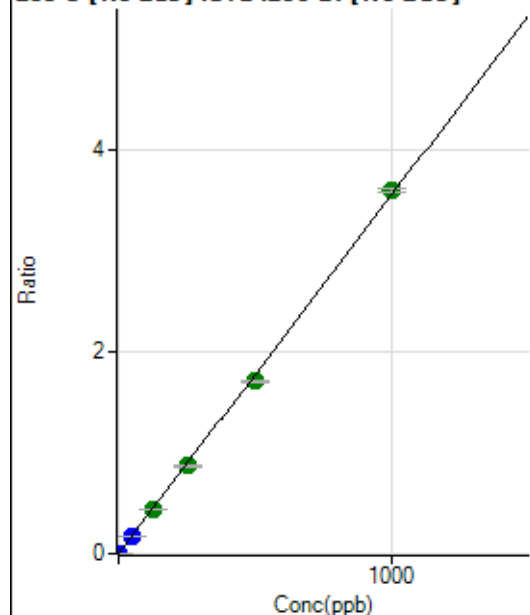
$$R = 0.9998$$

$$DL = 0.007067$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19.44	0.0000	P	65.2
2	☐	1.000	0.897	21964.15	0.0032	P	2.8
3	☐	50.000	46.843	1110544.26	0.1664	P	3.7
4	☐	125.000	121.611	2895675.56	0.4321	A	1.4
5	☐	250.000	244.850	5776466.53	0.8700	A	2.5
6	☐	500.000	480.314	11813023.61	1.7066	A	0.7
7	☐	1000.000	1011.712	23988859.04	3.5947	A	1.0
8	☐			4723.25	0.0008	P	9.5

$$y = 0.0036 * x + 2.8784E-006$$

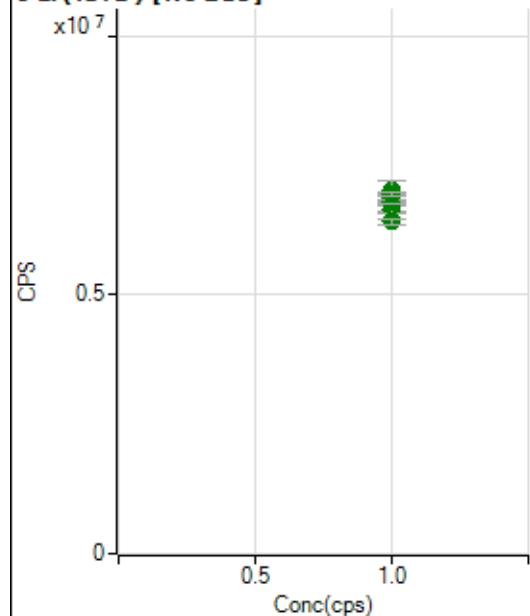
$$R = 0.9997$$

$$DL = 0.001585$$

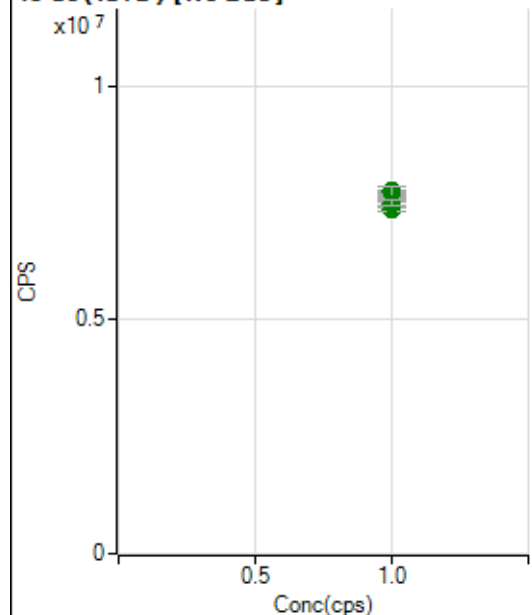
Weight: <None>

Min Conc: 0

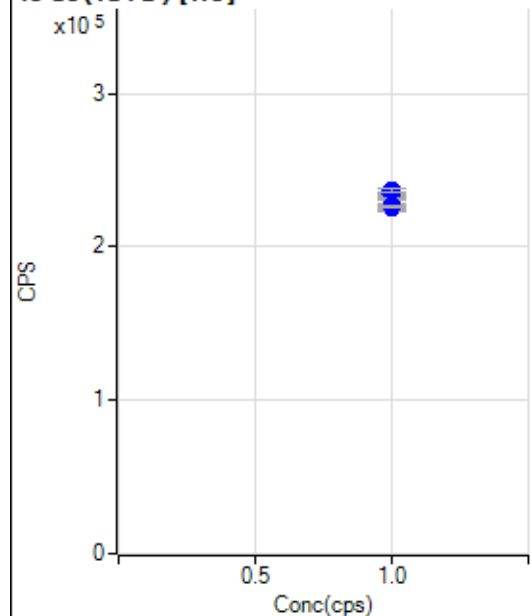
6 Li (ISTD) [No Gas]



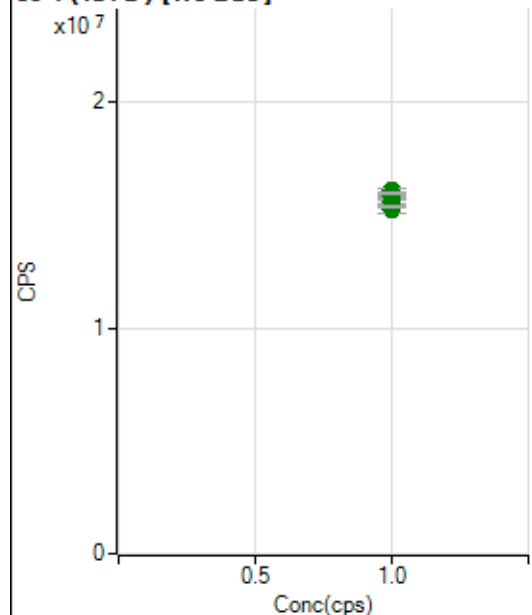
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7001526.33		A	5.2
2	☐	1.000		6850801.16		A	2.2
3	☐	1.000		6707647.23		A	3.5
4	☐	1.000		6653640.08		A	2.8
5	☐	1.000		6851594.14		A	4.1
6	☐	1.000		6786948.41		A	0.8
7	☐	1.000		6951650.90		A	1.1
8	☐	1.000		6409820.71		A	1.9

45 Sc (ISTD) [No Gas]

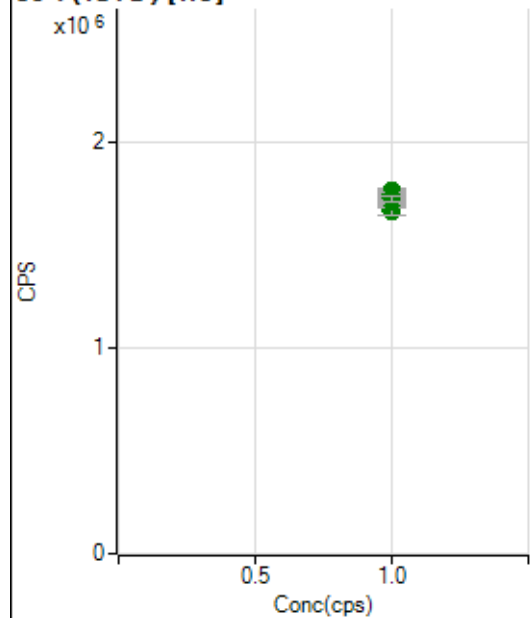
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7656323.08		A	1.9
2	☐	1.000		7674343.70		A	1.8
3	☐	1.000		7559708.15		A	2.8
4	☐	1.000		7357622.25		A	1.0
5	☐	1.000		7469913.99		A	1.6
6	☐	1.000		7750117.11		A	2.4
7	☐	1.000		7733125.72		A	3.3
8	☐	1.000		7494980.03		A	1.8

45 Sc (ISTD) [He]

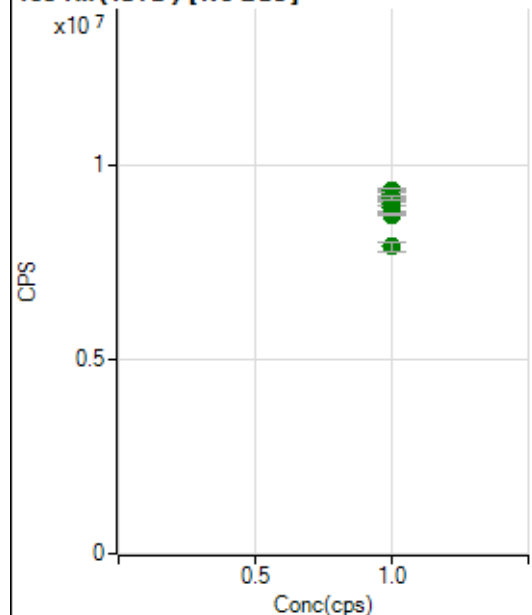
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		235033.31		P	0.7
2	☐	1.000		233896.96		P	0.7
3	☐	1.000		226611.98		P	1.3
4	☐	1.000		227018.36		P	2.7
5	☐	1.000		224926.49		P	1.4
6	☐	1.000		234036.68		P	1.4
7	☐	1.000		236400.67		P	1.2
8	☐	1.000		226272.34		P	0.1

89 Y (ISTD) [No Gas]

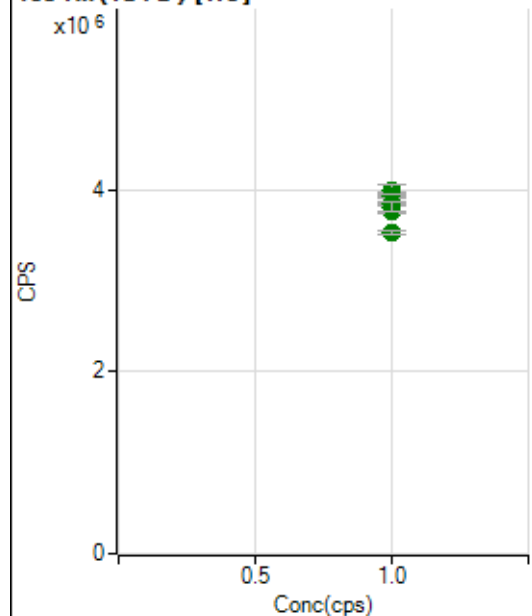
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		16028845.18		A	1.9
2	☐	1.000		16088356.15		A	1.3
3	☐	1.000		15638804.21		A	1.3
4	☐	1.000		15818334.21		A	1.3
5	☐	1.000		15247567.97		A	2.3
6	☐	1.000		15857840.18		A	1.2
7	☐	1.000		15957772.26		A	0.6
8	☐	1.000		15381452.41		A	0.6

89 Y (ISTD) [He]

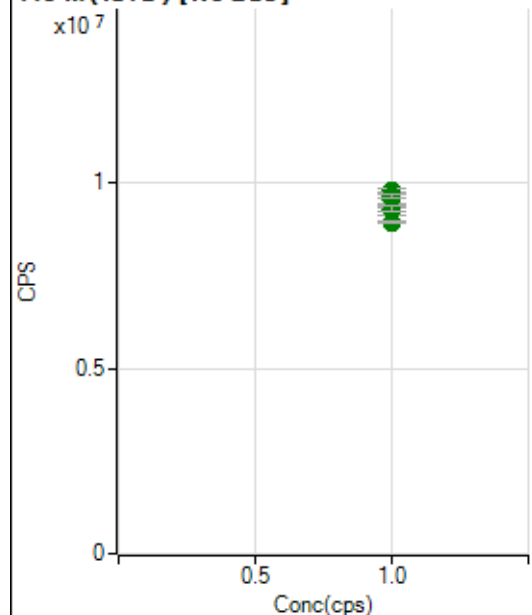
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1759497.98		A	1.3
2	☐	1.000		1752564.47		A	1.0
3	☐	1.000		1725238.90		A	0.8
4	☐	1.000		1665810.90		A	3.1
5	☐	1.000		1664048.90		A	2.2
6	☐	1.000		1709270.83		A	1.9
7	☐	1.000		1740918.10		A	1.3
8	☐	1.000		1721693.22		A	1.7

103 Rh (ISTD) [No Gas]

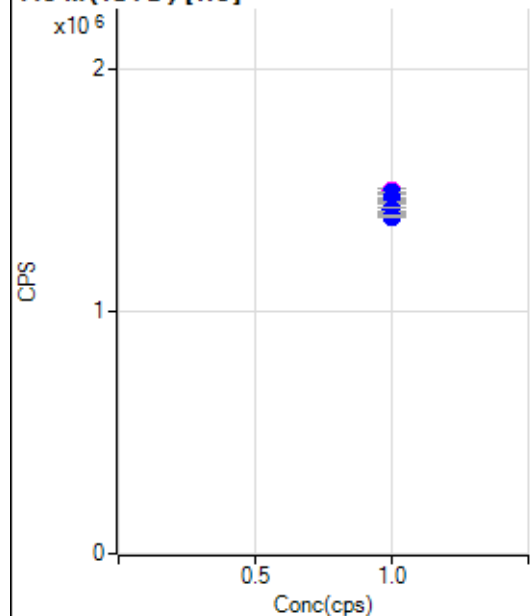
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9237666.87		A	2.5
2	☐	1.000		9332294.05		A	1.1
3	☐	1.000		9110959.06		A	0.3
4	☐	1.000		8997224.94		A	0.8
5	☐	1.000		8921658.88		A	2.5
6	☐	1.000		9131891.52		A	1.1
7	☐	1.000		8717165.82		A	0.5
8	☐	1.000		7900539.76		A	2.8

103 Rh (ISTD) [He]

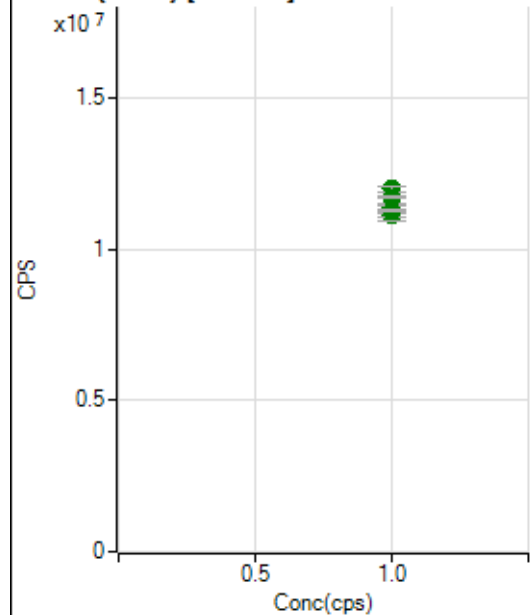
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3953901.15		A	1.1
2	☐	1.000		3983288.34		A	3.3
3	☐	1.000		3924519.77		A	0.8
4	☐	1.000		3833446.89		A	0.1
5	☐	1.000		3754707.58		A	0.4
6	☐	1.000		3837851.78		A	1.3
7	☐	1.000		3804275.50		A	2.7
8	☐	1.000		3525735.88		A	1.4

115 In (ISTD) [No Gas]

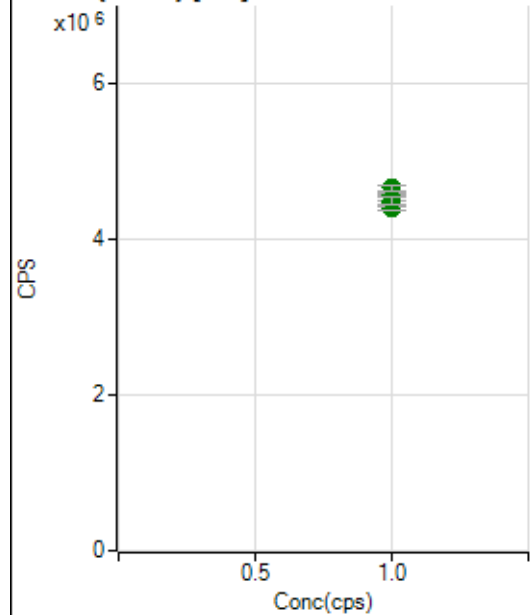
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9778358.57		A	1.1
2	☐	1.000		9513953.00		A	1.9
3	☐	1.000		9404239.52		A	1.1
4	☐	1.000		9279693.08		A	0.9
5	☐	1.000		9291917.95		A	3.4
6	☐	1.000		9631009.12		A	1.4
7	☐	1.000		9293962.84		A	1.8
8	☐	1.000		8933199.67		A	0.9

115 In (ISTD) [He]

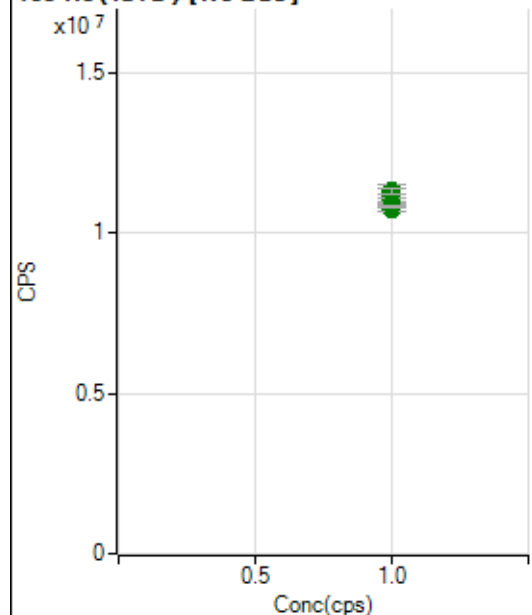
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1495024.08		M	1.4
2	☐	1.000		1489655.66		P	0.5
3	☐	1.000		1463639.45		P	0.5
4	☐	1.000		1446341.35		P	0.5
5	☐	1.000		1399264.37		P	0.8
6	☐	1.000		1444715.07		P	0.5
7	☐	1.000		1418220.68		P	0.7
8	☐	1.000		1386869.95		P	0.6

159 Tb (ISTD) [No Gas]

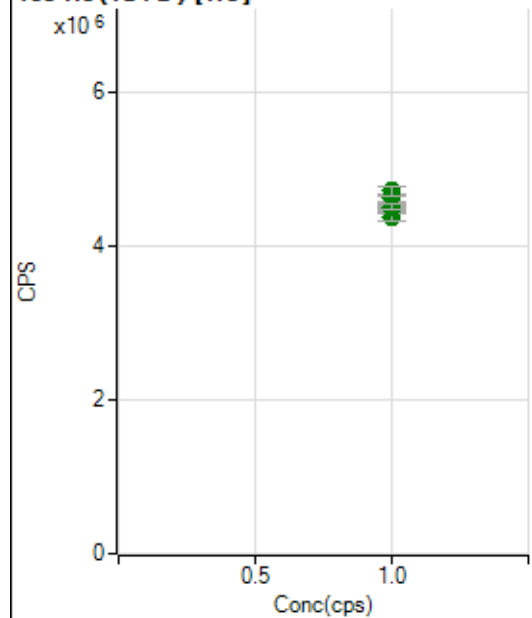
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11212507.05		A	0.7
2	☐	1.000		11394012.89		A	1.5
3	☐	1.000		11239633.17		A	1.2
4	☐	1.000		11115202.06		A	2.8
5	☐	1.000		11239482.19		A	3.6
6	☐	1.000		11990293.02		A	1.5
7	☐	1.000		11714365.24		A	0.7
8	☐	1.000		11270639.56		A	0.2

159 Tb (ISTD) [He]

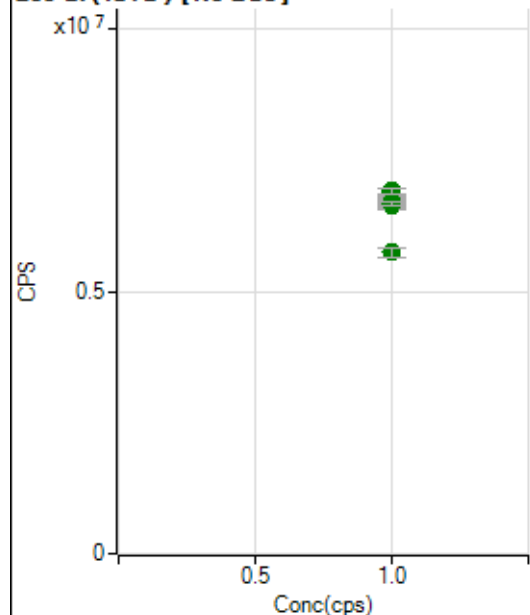
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4552894.76		A	0.6
2	☐	1.000		4573728.58		A	1.0
3	☐	1.000		4546696.36		A	2.5
4	☐	1.000		4472278.72		A	1.7
5	☐	1.000		4407751.77		A	1.1
6	☐	1.000		4609069.93		A	0.9
7	☐	1.000		4663438.47		A	1.9
8	☐	1.000		4493544.38		A	2.1

165 Ho (ISTD) [No Gas]

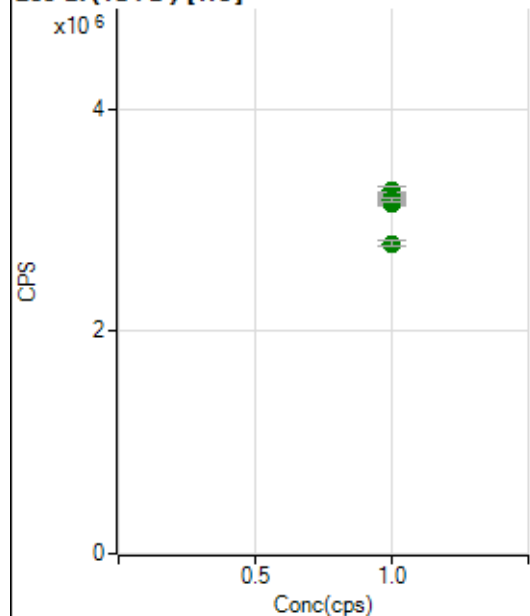
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11147898.25		A	0.7
2	☐	1.000		11032094.08		A	3.2
3	☐	1.000		10861532.01		A	1.3
4	☐	1.000		10716883.83		A	1.0
5	☐	1.000		10877750.85		A	1.3
6	☐	1.000		11316349.99		A	4.0
7	☐	1.000		11301487.92		A	1.9
8	☐	1.000		10833917.95		A	0.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4527034.17		A	2.3
2	☐	1.000		4469919.97		A	0.9
3	☐	1.000		4511554.97		A	0.2
4	☐	1.000		4561034.20		A	0.5
5	☐	1.000		4367815.07		A	2.2
6	☐	1.000		4624040.87		A	1.7
7	☐	1.000		4713357.26		A	2.6
8	☐	1.000		4508445.63		A	1.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6736128.10		A	1.3
2	☐	1.000		6887103.64		A	2.1
3	☐	1.000		6675272.82		A	2.0
4	☐	1.000		6700719.90		A	2.0
5	☐	1.000		6642392.13		A	2.4
6	☐	1.000		6922016.91		A	1.5
7	☐	1.000		6673416.01		A	1.0
8	☐	1.000		5751320.82		A	3.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3191306.52		A	1.0
2	☐	1.000		3261137.38		A	2.0
3	☐	1.000		3221550.30		A	1.4
4	☐	1.000		3150898.15		A	1.4
5	☐	1.000		3178356.10		A	2.7
6	☐	1.000		3169269.15		A	1.9
7	☐	1.000		3187160.48		A	1.0
8	☐	1.000		2789588.40		A	1.6

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8040322 MS.b

Acq. Date-Time 2022-04-03 17:07:29

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		21245	212454.02			0.534	5.000
24		116717	1167166.79			1.261	5.000
25		15166	151663.15			0.724	5.000
26		17579	175792.20			0.801	5.000
59		25371	253713.37			0.988	5.000
113		12050	120496.10			1.498	5.000
115		36784	367839.34			1.200	5.000
206		14216	142161.18			1.487	5.000
207		11893	118928.47			1.868	5.000
208		29823	298226.04			1.009	5.000
220		1	5.70			22.874	

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

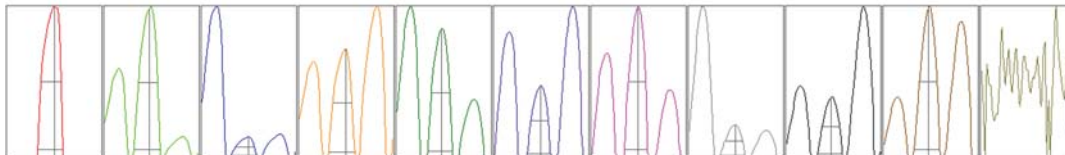
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	21295	21263	21062	21238	21368
24	116748	117384	114184	117382	117886
25	15233	15063	15034	15278	15223
26	17701	17489	17465	17762	17479
59	25759	25092	25227	25418	25360
113	11972	11808	12022	12274	12172
115	37541	36513	36619	36788	36459
206	14036	13949	14378	14424	14294
207	11728	11611	12109	12102	11914
208	29812	29308	29968	29967	30057

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	0	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	35265.05	9.05	8.90 - 9.10	
24	200821.56	23.95	23.90 - 24.10	
25	26770.71	25.00	24.90 - 25.10	
26	30071.69	26.00	25.90 - 26.10	
59	46009.87	58.95	58.90 - 59.10	
113	23321.22	113.00	112.90 - 113.10	
115	71340.03	115.00	114.90 - 115.10	
206	26500.58	206.00	205.90 - 206.10	
207	22220.32	206.95	206.90 - 207.10	
208	55866.26	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.787	0.900	
24	0.61	0.827	0.900	
25	0.59	0.795	0.900	
26	0.61	0.825	0.900	
59	0.58	0.781	0.900	
113	0.54	0.733	0.900	
115	0.54	0.734	0.900	
206	0.55	0.787	0.900	
207	0.54	0.784	0.900	
208	0.55	0.813	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 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	10.0 V	Deflect	15.6 V
Extract 2	-175.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-90 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	123	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	-0.4 mm
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EM

Discriminator	4.0 mV	Analog HV	2292 V	Pulse HV	1648 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		5088	50884.48			1.006	
89		18129	181294.65			0.868	
205		30075	300750.01			1.021	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	5036	5035	5133	5142	5096
89	18030	17942	18298	18286	18092
205	30066	29817	30272	30477	29743

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 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	10.0 V	Deflect	4.4 V
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US EPA Tune Check Report

Extract 2	-175.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-90 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	200 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	-0.4 mm
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EM

Discriminator	4.0 mV	Analog HV	2292 V	Pulse HV	1648 V
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