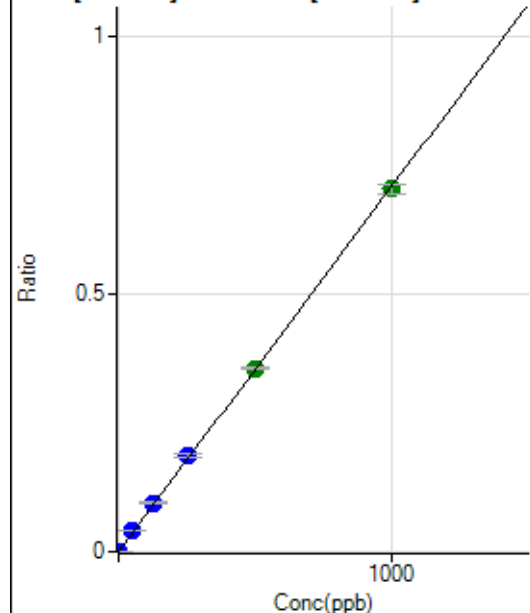


Calibration for 005CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8051522-MS1.b\
 Analysis File: P8051522-MS1.batch.bin
 DA Date-Time: 2022-05-15 21:56:01
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-05-15 19:10:23
2	006CALS.d	S02	2022-05-15 19:16:31
3	007CALS.d	S03	2022-05-15 19:19:35
4	008CALS.d	S04	2022-05-15 19:22:40
5	009CALS.d	S05	2022-05-15 19:25:44
6	010CALS.d	S06	2022-05-15 19:28:50
7	011CALS.d	S07	2022-05-15 19:31:53
8	012CALS.d	S08	2022-05-15 19:34:58

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	31.99	0.0000	P	28.7
2	☐	1.000	1.158	2055.08	0.0008	P	2.8
3	☐	50.000	57.021	100890.42	0.0404	P	3.3
4	☐	125.000	133.989	251051.18	0.0950	P	3.2
5	☐	250.000	263.670	492531.57	0.1869	P	3.0
6	☐	500.000	502.139	971917.79	0.3560	A	0.9
7	☐	1000.000	994.038	1941453.94	0.7047	A	2.5
8	☐			262.62	0.0001	P	6.0

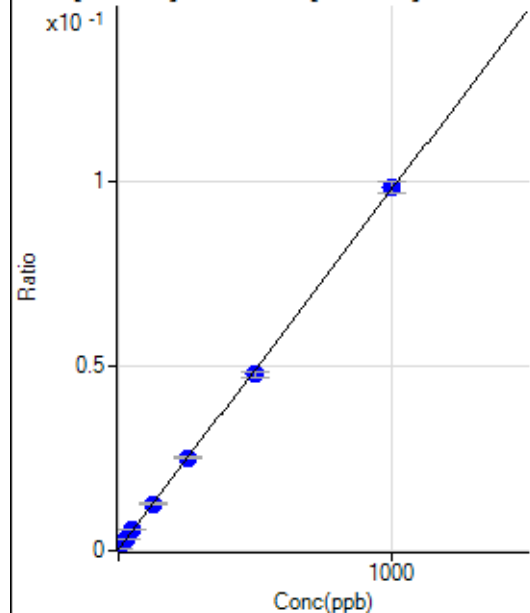
$$y = 7.0896\text{E-}004 * x + 1.3202\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.01604$$

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	1015.84	0.0004	P	4.3
2	☐	25.000	26.353	7373.78	0.0030	P	2.0
3	☐	50.000	53.310	14045.39	0.0056	P	4.2
4	☐	125.000	126.579	33756.44	0.0128	P	4.5
5	☐	250.000	254.940	66696.19	0.0253	P	3.5
6	☐	500.000	486.798	130743.70	0.0479	P	3.5
7	☐	1000.000	1004.969	271144.80	0.0984	P	3.1
8	☐			23657.90	0.0097	P	9.0

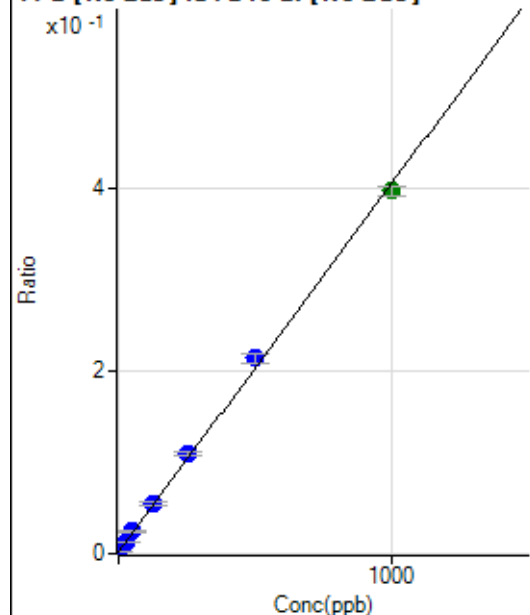
$$y = 9.7541\text{E-}005 * x + 4.2203\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.5565$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4361.80	0.0018	P	3.1
2	☐	25.000	27.632	31909.33	0.0130	P	3.4
3	☐	50.000	56.128	61046.84	0.0244	P	2.1
4	☐	125.000	129.942	143198.48	0.0542	P	6.2
5	☐	250.000	268.434	290112.46	0.1100	P	3.5
6	☐	500.000	527.523	585193.11	0.2144	P	4.7
7	☐	1000.000	980.640	1093803.24	0.3971	A	2.5
8	☐			103799.38	0.0427	P	9.9

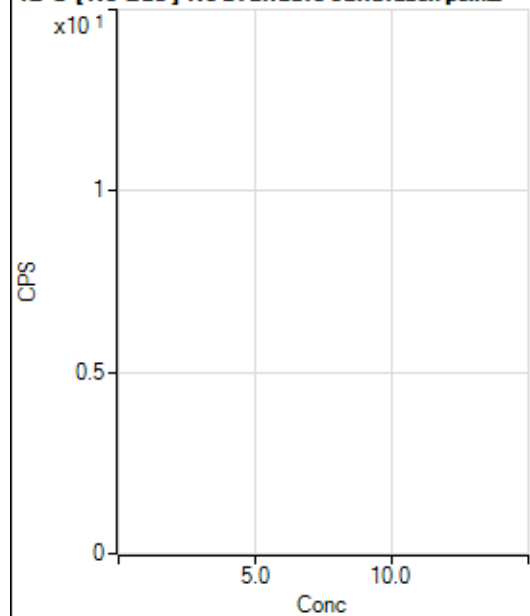
$$y = 4.0306\text{E-}004 * x + 0.0018$$

$$R = 0.9993$$

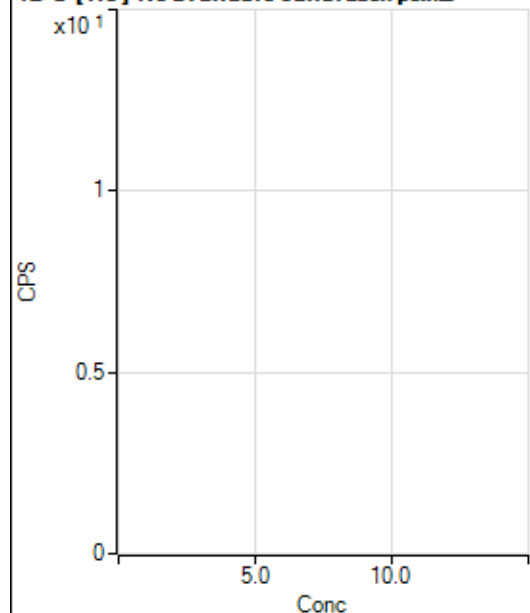
$$DL = 0.4144$$

Weight: <None>

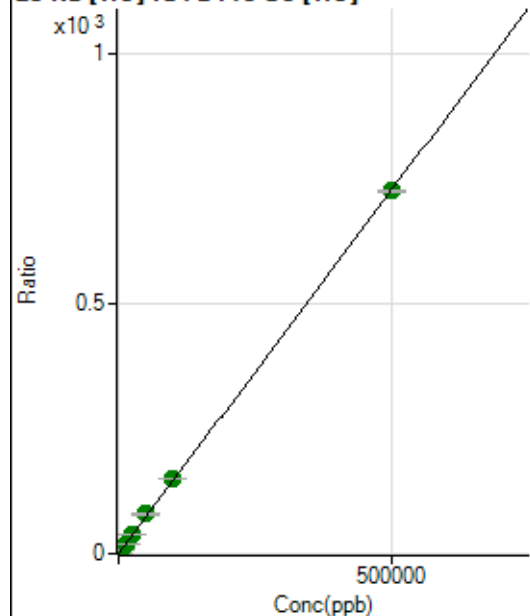
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2927667.86		A	2.2
2	☐			2908457.40		A	2.3
3	☐			3281403.24		A	0.7
4	☐			3282580.02		A	0.7
5	☐			3341317.65		A	0.6
6	☐			3695213.02		A	0.5
7	☐			4325774.14		A	1.3
8	☐			3782548.00		A	2.0

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			39347.95		P	2.2
2	☐			39105.60		P	0.2
3	☐			45041.99		P	2.6
4	☐			45654.98		P	0.9
5	☐			46513.09		P	1.1
6	☐			51017.25		P	1.2
7	☐			62494.20		P	0.9
8	☐			56712.80		P	1.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	9381.06	0.0493	P	5.0
2	☐	500.000	476.452	142393.47	0.7422	P	1.2
3	☐	5000.000	5225.307	1453042.92	7.6482	A	1.5
4	☐	12500.000	13438.753	3465051.33	19.5926	A	4.5
5	☐	25000.000	26011.308	6831682.97	37.8763	A	1.8
6	☐	50000.000	54349.093	13781047.53	79.0865	A	5.8
7	☐	100000.00	102933.13	28518506.54	149.7399	A	1.7
8	☐	500000.00	498902.19	142533911.5	725.5781	A	0.7

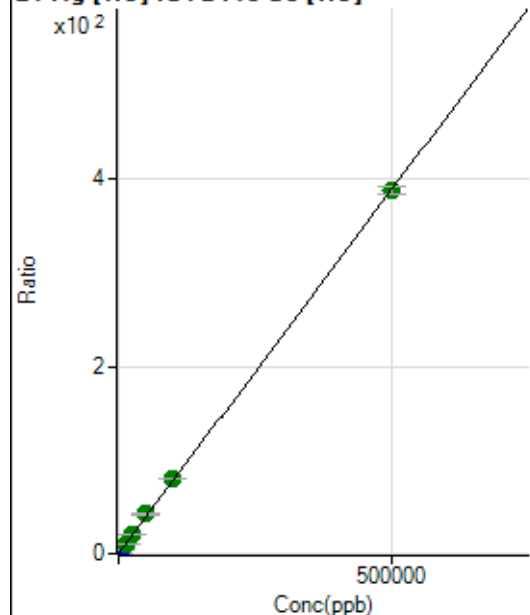
$$y = 0.0015 * x + 0.0493$$

$$R = 1.0000$$

$$DL = 5.127$$

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	244.45	0.0013	P	4.2
2	☐	500.000	493.530	73787.39	0.3846	P	2.4
3	☐	5000.000	5061.631	747459.38	3.9329	P	1.9
4	☐	12500.000	13907.183	1910554.77	10.8038	A	4.7
5	☐	25000.000	26350.903	3692115.27	20.4695	A	2.2
6	☐	50000.000	55099.160	7460743.57	42.7998	A	4.6
7	☐	100000.00	103468.77	15307955.20	80.3712	A	1.3
8	☐	500000.00	498692.99	76095696.84	387.3635	A	2.1

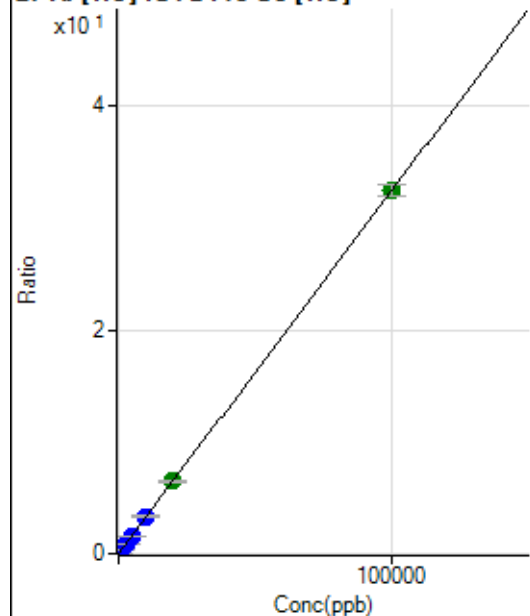
$$y = 7.7675E-004 * x + 0.0013$$

$$R = 0.9999$$

$$DL = 0.2066$$

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	260.80	0.0014	P	2.5
2	☐	20.000	20.167	1516.98	0.0079	P	5.0
3	☐	1000.000	958.874	59305.06	0.3121	P	1.3
4	☐	2500.000	2506.345	143908.77	0.8137	P	4.3
5	☐	5000.000	4833.065	282761.08	1.5677	P	2.3
6	☐	10000.000	10091.922	570343.64	3.2721	P	4.8
7	☐	20000.000	19904.795	1228968.29	6.4524	A	1.5
8	☐	100000.00	100018.44	6368393.80	32.4169	A	3.1

$$y = 3.2410E-004 * x + 0.0014$$

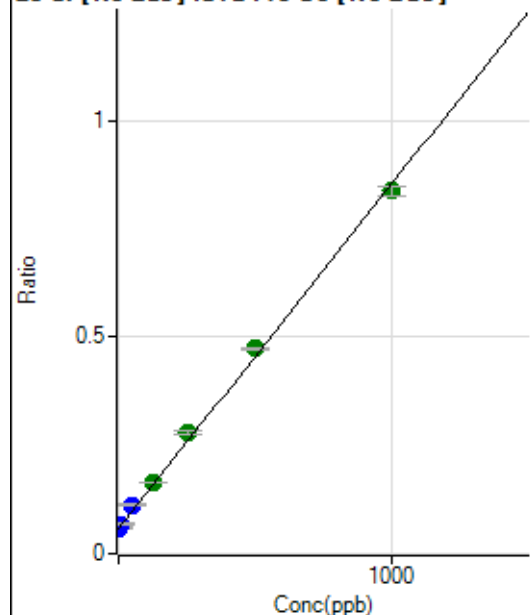
$$R = 1.0000$$

$$DL = 0.3197$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	331764.85	0.0581	P	7.6
2	☐	10.000	12.653	404215.57	0.0682	P	3.6
3	☐	50.000	68.756	680824.75	0.1128	P	1.9
4	☐	125.000	133.045	969008.31	0.1639	A	1.9
5	☐	250.000	277.633	1587788.41	0.2788	A	4.1
6	☐	500.000	521.604	2745296.42	0.4727	A	0.8
7	☐	1000.000	980.320	5054320.82	0.8373	A	2.7
8	☐			939122.94	0.1556	P	6.1

$$y = 7.9477E-004 * x + 0.0581$$

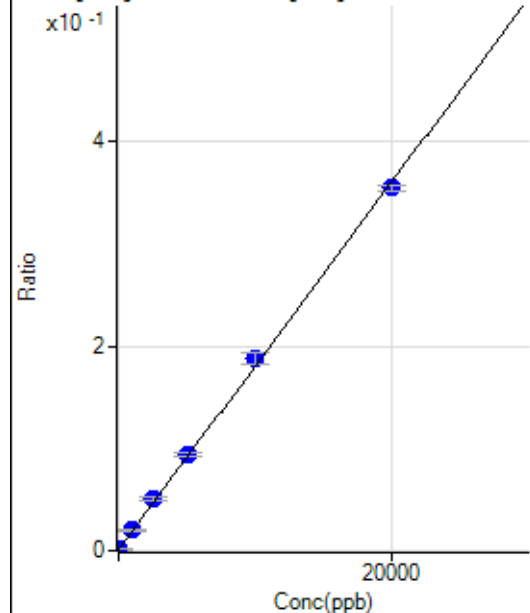
$$R = 0.9992$$

$$DL = 16.6$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-9.502	141.67	0.0007	P	11.1
2	☐	0.000	9.502	208.34	0.0011	P	17.1
3	☐	1000.000	1074.612	3839.50	0.0202	P	4.9
4	☐	2500.000	2787.018	9000.24	0.0509	P	6.9
5	☐	5000.000	5187.367	16954.80	0.0940	P	3.7
6	☐	10000.000	10432.865	32787.76	0.1881	P	5.3
7	☐	20000.000	19697.118	67499.17	0.3544	P	1.3
8	☐			144.45	0.0007	P	23.7

$$y = 1.7945E-005 * x + 9.1498E-004$$

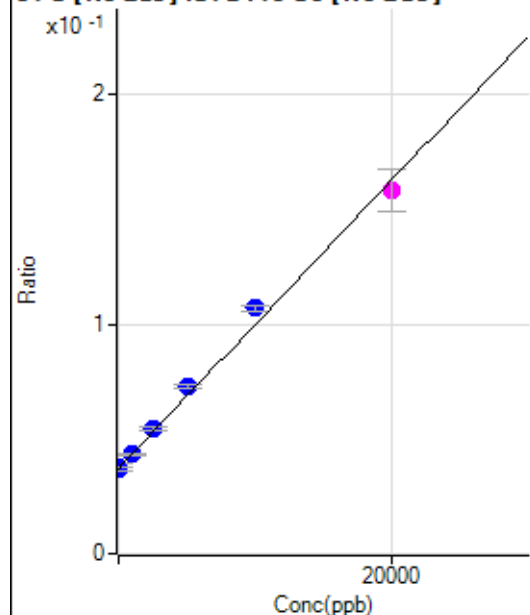
$$R = 0.9995$$

$$DL = 22.41$$

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	73.590	214855.81	0.0377	P	9.4
2	☐	0.000	-73.590	217824.58	0.0368	P	4.5
3	☐	1000.000	971.090	261549.07	0.0433	P	1.1
4	☐	2500.000	2740.783	321901.99	0.0544	P	2.5
5	☐	5000.000	5678.068	415298.76	0.0729	P	2.1
6	☐	10000.000	11095.870	620990.19	0.1069	P	2.2
7	☐	20000.000	19253.896	954627.92	0.1582	M	11.6
8	☐			187701.61	0.0311	P	4.9

$$y = 6.2820\text{E-}006 * x + 0.0372$$

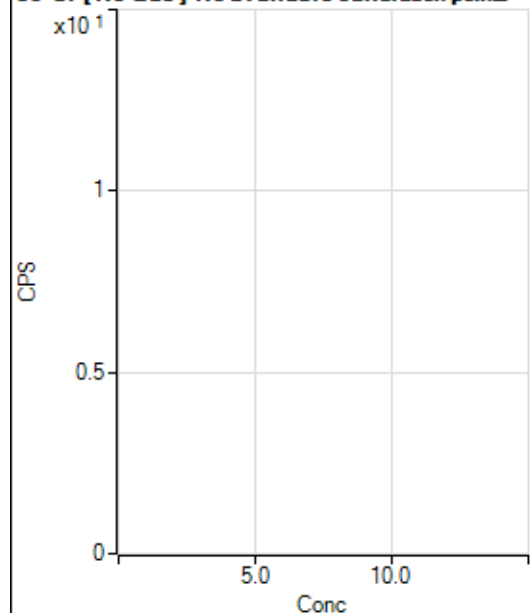
$$R = 0.9969$$

$$DL = 1238$$

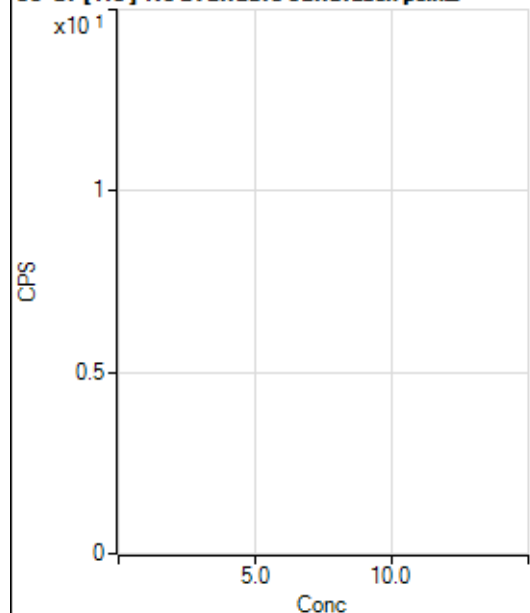
Weight: <None>

Min Conc: 0

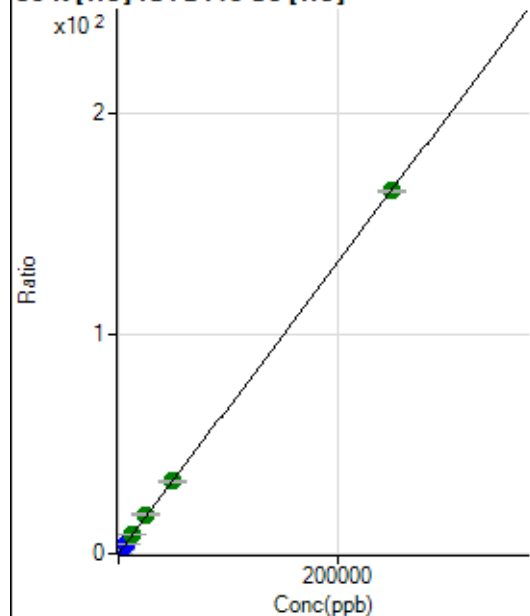
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			142743.74		P	1.6
2	☐			128553.89		P	0.3
3	☐			132118.40		P	0.5
4	☐			122442.81		P	1.6
5	☐			115167.06		P	0.9
6	☐			110307.10		P	0.1
7	☐			111684.36		P	0.9
8	☐			114596.23		P	0.5

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1216.75		P	7.8
2	☐			1091.74		P	12.3
3	☐			1075.07		P	6.2
4	☐			1055.62		P	7.7
5	☐			1061.19		P	14.6
6	☐			1002.84		P	4.1
7	☐			961.17		P	10.0
8	☐			994.51		P	5.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	15289.06	0.0804	P	1.9
2	☐	500.000	483.397	76654.06	0.3996	P	1.1
3	☐	2500.000	2545.567	334603.55	1.7612	P	1.5
4	☐	6250.000	6631.435	788751.95	4.4590	P	4.1
5	☐	12500.000	13205.456	1587205.67	8.7997	A	1.7
6	☐	25000.000	26838.299	3103032.54	17.8012	A	4.8
7	☐	50000.000	50073.572	6310810.25	33.1429	A	3.1
8	☐	250000.00	249756.22	32411381.97	164.9893	A	0.7

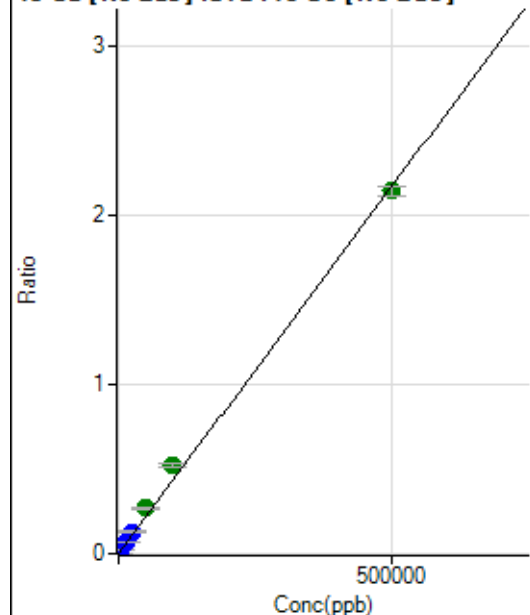
$$y = 6.6028E-004 * x + 0.0804$$

$$R = 1.0000$$

$$DL = 6.802$$

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	538.70	0.0001	P	5.7
2	☐	500.000	496.027	13286.99	0.0022	P	3.3
3	☐	5000.000	6029.695	158186.35	0.0262	P	0.5
4	☐	12500.000	14695.667	376805.92	0.0637	P	1.3
5	☐	25000.000	29736.389	733991.44	0.1289	P	2.7
6	☐	50000.000	61642.947	1550839.50	0.2670	A	0.9
7	☐	100000.00	120669.30	3154057.94	0.5226	A	3.7
8	☐	500000.00	494399.84	12929800.57	2.1409	A	3.0

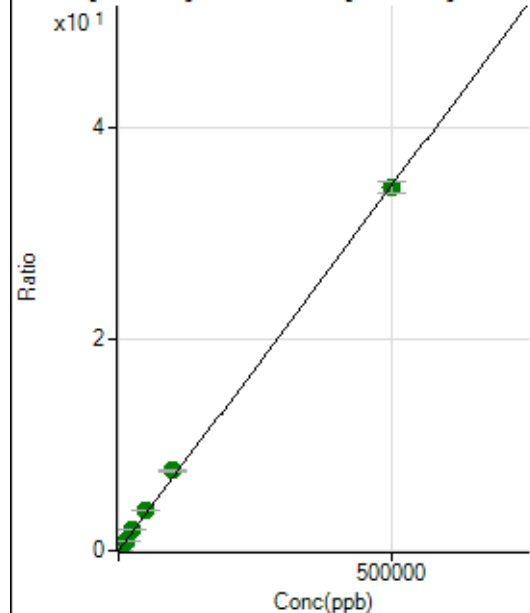
$$y = 4.3302\text{E-}006 * x + 9.3985\text{E-}005$$

$$R = 0.9989$$

$$DL = 3.737$$

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	10939.99	0.0019	P	6.0
2	☐	500.000	502.932	217044.00	0.0366	P	3.9
3	☐	5000.000	5766.775	2414322.02	0.3999	A	0.4
4	☐	12500.000	14051.884	5745998.22	0.9718	A	0.1
5	☐	25000.000	27961.672	11007972.56	1.9318	A	0.6
6	☐	50000.000	55428.481	22228349.62	3.8275	A	1.6
7	☐	100000.00	110069.00	45860093.81	7.5987	A	3.3
8	☐	500000.00	497248.80	207274867.6	34.3213	A	3.1

$$y = 6.9019\text{E-}005 * x + 0.0019$$

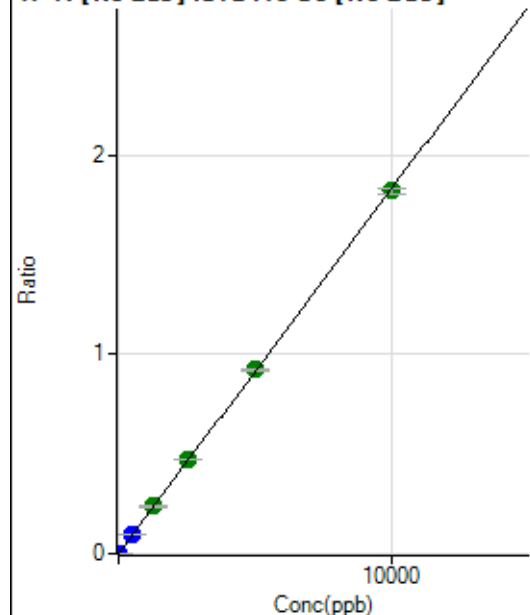
$$R = 0.9998$$

$$DL = 5.011$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	233.34	0.0000	P	19.4
2	☐	5.000	5.323	6015.32	0.0010	P	7.8
3	☐	500.000	526.673	582845.50	0.0965	P	0.9
4	☐	1250.000	1299.276	1407887.78	0.2381	A	1.5
5	☐	2500.000	2595.316	2709963.58	0.4756	A	1.1
6	☐	5000.000	5045.042	5368998.25	0.9245	A	1.1
7	☐	10000.000	9946.157	11002168.56	1.8225	A	1.8
8	☐			2180.80	0.0004	P	11.9

$$y = 1.8324\text{E-}004 * x + 4.0437\text{E-}005$$

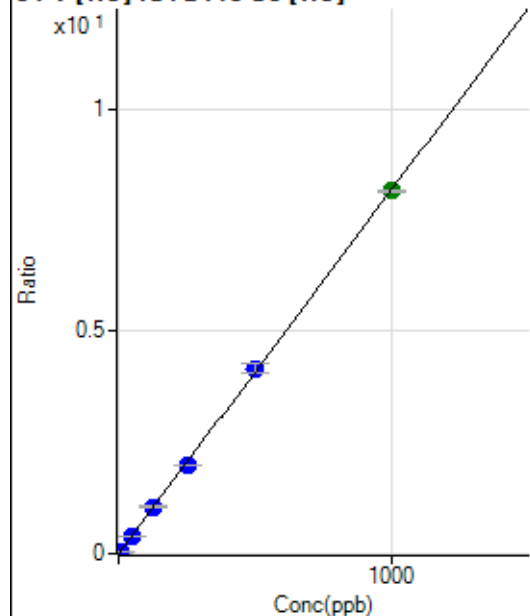
$$R = 0.9999$$

$$DL = 0.1286$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5.56	0.0000	P	34.6
2	☐	5.000	4.783	7516.48	0.0392	P	2.6
3	☐	50.000	49.223	76540.28	0.4029	P	1.3
4	☐	125.000	127.281	184214.64	1.0417	P	4.8
5	☐	250.000	244.185	360492.78	1.9984	P	1.1
6	☐	500.000	507.719	724175.22	4.1552	P	5.3
7	☐	1000.000	997.349	1554958.01	8.1623	A	0.6
8	☐			377.79	0.0019	P	7.5

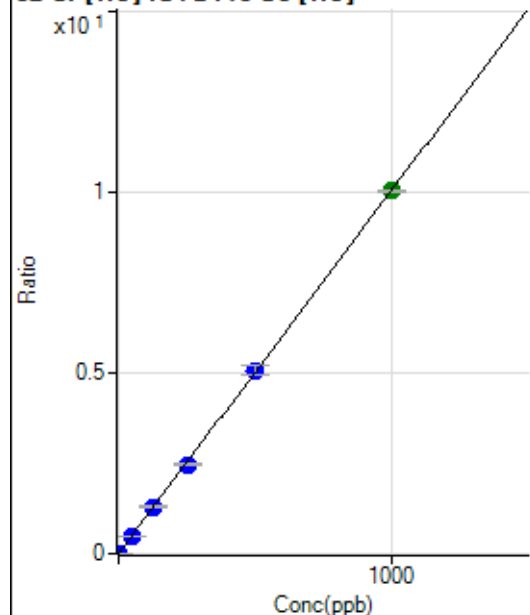
$$y = 0.0082 * x + 2.9201\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.0037$$

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	1004.49	0.0053	P	6.1
2	☐	2.000	1.880	4634.13	0.0242	P	0.5
3	☐	50.000	49.198	94834.81	0.4991	P	1.8
4	☐	125.000	127.060	226503.46	1.2807	P	4.6
5	☐	250.000	243.719	442227.25	2.4518	P	1.9
6	☐	500.000	504.686	883842.75	5.0714	P	5.3
7	☐	1000.000	999.010	1911437.97	10.0335	A	0.5
8	☐			18302.93	0.0932	P	0.9

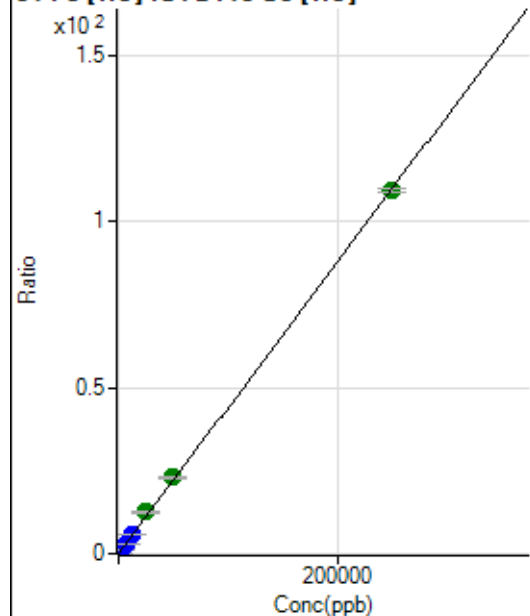
$$y = 0.0100 * x + 0.0053$$

$$R = 1.0000$$

$$DL = 0.09676$$

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	546.32	0.0029	P	10.4
2	☐	50.000	54.251	5117.67	0.0267	P	5.3
3	☐	2500.000	2665.361	222766.25	1.1724	P	1.5
4	☐	6250.000	6846.519	532058.34	3.0069	P	3.1
5	☐	12500.000	13007.134	1030022.85	5.7100	P	1.0
6	☐	25000.000	28415.049	2174186.65	12.4706	A	4.2
7	☐	50000.000	52458.358	4384582.53	23.0202	A	1.3
8	☐	250000.00	249124.89	21473381.73	109.3121	A	0.9

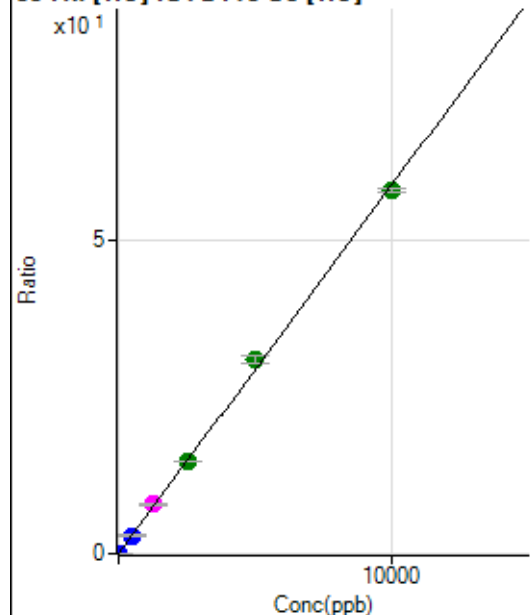
$$y = 4.3877E-004 * x + 0.0029$$

$$R = 0.9999$$

$$DL = 2.05$$

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	87.78	0.0005	P	24.9
2	☐	1.000	1.003	1221.17	0.0064	P	3.6
3	☐	500.000	495.274	553762.83	2.9147	P	1.4
4	☐	1250.000	1340.790	1395690.65	7.8898	M	5.3
5	☐	2500.000	2516.687	2671380.55	14.8088	A	0.8
6	☐	5000.000	5273.510	5408863.11	31.0302	A	4.7
7	☐	10000.000	9847.961	11037729.42	57.9466	A	1.1
8	☐			6033.55	0.0307	P	1.5

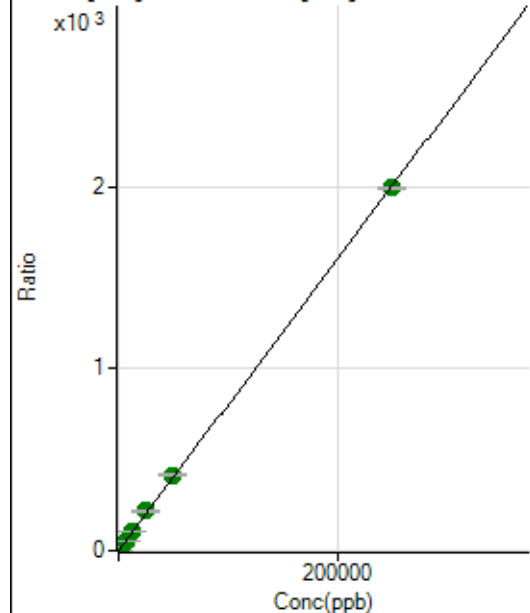
$$y = 0.0059 * x + 4.6224E-004$$

$$R = 0.9994$$

$$DL = 0.05875$$

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	5730.90	0.0301	P	1.3
2	☐	50.000	51.107	84145.96	0.4386	P	1.0
3	☐	2500.000	2744.039	4172174.43	21.9597	A	1.1
4	☐	6250.000	7050.673	9967795.02	56.3772	A	5.4
5	☐	12500.000	13287.176	19162860.85	106.2176	A	0.7
6	☐	25000.000	27679.877	38562033.27	221.2402	A	5.0
7	☐	50000.000	52089.031	79291404.55	416.3115	A	1.7
8	☐	250000.00	249252.39	391321997.6	1,991.987	A	0.3

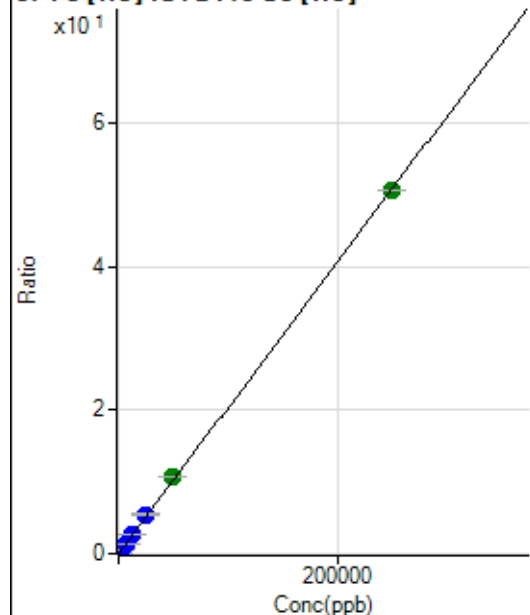
$$y = 0.0080 * x + 0.0301$$

$$R = 0.9999$$

$$DL = 0.1515$$

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	198.15	0.0010	P	19.2
2	☐	50.000	48.003	2070.56	0.0108	P	6.1
3	☐	2500.000	2562.872	99135.57	0.5218	P	1.1
4	☐	6250.000	6702.680	241040.24	1.3629	P	4.4
5	☐	12500.000	12780.757	468562.96	2.5979	P	2.2
6	☐	25000.000	26519.328	939565.44	5.3893	P	4.2
7	☐	50000.000	53033.616	2053268.55	10.7765	A	1.3
8	☐	250000.00	249215.36	9947501.49	50.6369	A	0.2

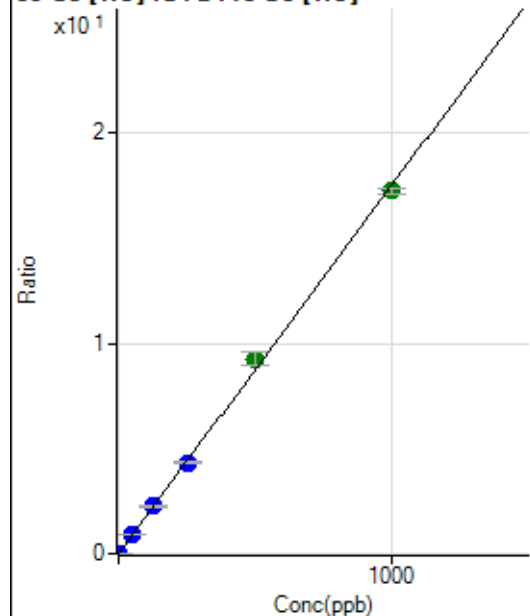
$$y = 2.0318\text{E-}004 * x + 0.0010$$

$$R = 0.9999$$

$$DL = 2.953$$

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	84.45	0.0004	P	9.1
2	☐	1.000	1.021	3510.47	0.0183	P	4.0
3	☐	50.000	49.774	165491.19	0.8710	P	0.3
4	☐	125.000	129.461	400602.87	2.2646	P	3.8
5	☐	250.000	245.980	775991.38	4.3025	P	2.4
6	☐	500.000	529.655	1614321.49	9.2638	A	6.5
7	☐	1000.000	985.631	3283244.99	17.2386	A	1.6
8	☐			9124.12	0.0464	P	1.4

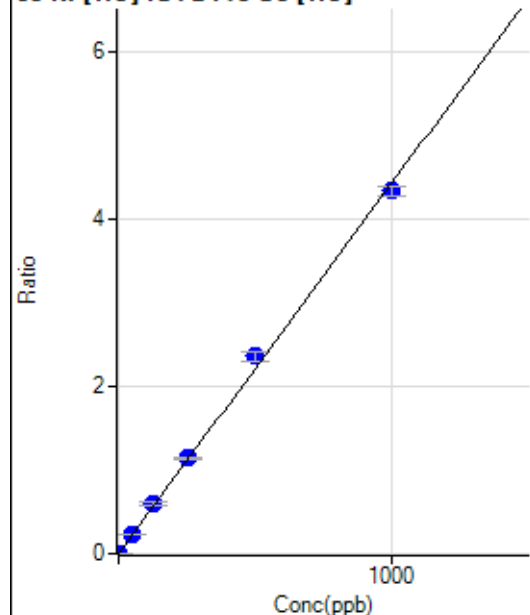
$$y = 0.0175 * x + 4.4422\text{E-}004$$

$$R = 0.9993$$

$$DL = 0.0069$$

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	42.22	0.0002	P	31.0
2	☐	1.000	0.989	883.37	0.0046	P	5.4
3	☐	50.000	52.893	44545.36	0.2345	P	2.0
4	☐	125.000	135.445	106101.72	0.6001	P	5.3
5	☐	250.000	258.807	206785.66	1.1464	P	1.8
6	☐	500.000	533.039	411456.03	2.3609	P	5.4
7	☐	1000.000	979.828	826381.74	4.3397	P	2.8
8	☐			7020.69	0.0357	P	0.6

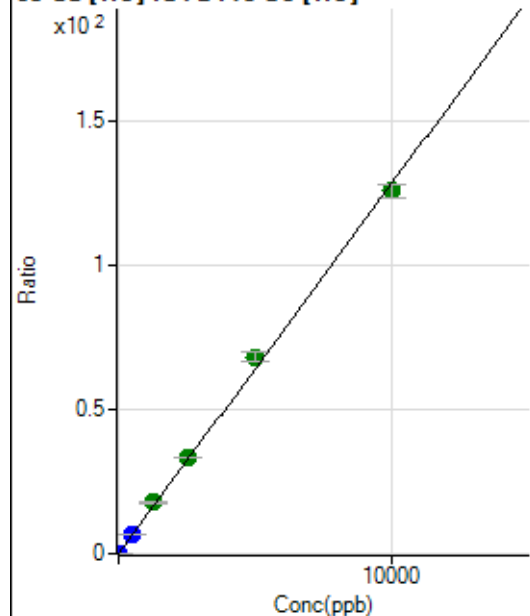
$$y = 0.0044 * x + 2.2163E-004$$

$$R = 0.9991$$

$$DL = 0.04655$$

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	510.01	0.0027	P	7.6
2	☐	2.000	2.050	5566.70	0.0290	P	2.8
3	☐	500.000	514.992	1257568.50	6.6199	P	2.5
4	☐	1250.000	1385.141	3147179.36	17.8005	A	5.5
5	☐	2500.000	2583.979	5989909.77	33.2045	A	0.7
6	☐	5000.000	5305.343	11882533.71	68.1715	A	4.8
7	☐	10000.000	9808.692	23999985.47	126.0354	A	3.4
8	☐			7891.15	0.0402	P	1.2

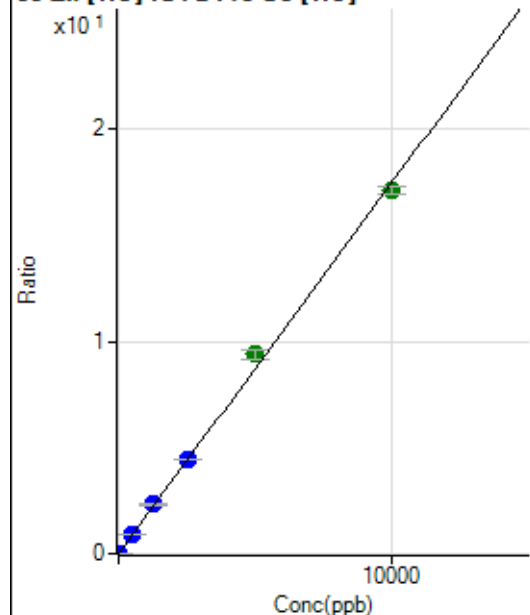
$$y = 0.0128 * x + 0.0027$$

$$R = 0.9992$$

$$DL = 0.04768$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	207.78	0.0011	P	9.4
2	☐	2.000	2.407	1015.60	0.0053	P	2.7
3	☐	500.000	512.082	169982.68	0.8946	P	1.4
4	☐	1250.000	1333.181	411786.61	2.3273	P	3.2
5	☐	2500.000	2541.096	799946.89	4.4349	P	1.7
6	☐	5000.000	5373.818	1634275.41	9.3776	A	5.4
7	☐	10000.000	9791.815	3253978.70	17.0864	A	2.1
8	☐			5085.41	0.0259	P	1.1

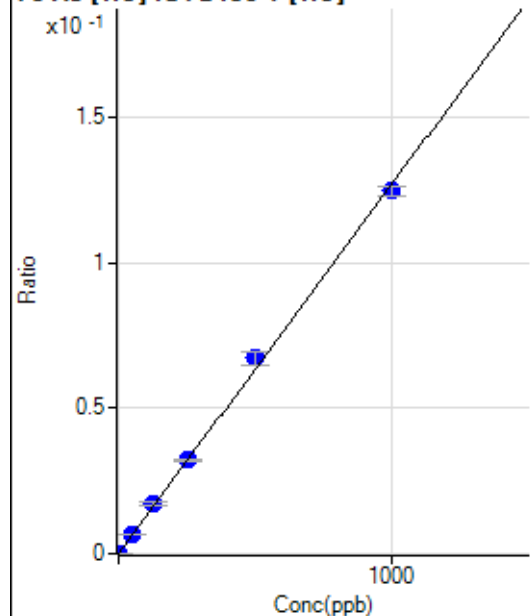
$$y = 0.0017 * x + 0.0011$$

$$R = 0.9989$$

$$DL = 0.176$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5.00	0.0000	P	35.4
2	☐	1.000	1.128	231.03	0.0001	P	10.2
3	☐	50.000	52.154	10226.40	0.0066	P	1.0
4	☐	125.000	134.809	24647.55	0.0171	P	6.7
5	☐	250.000	253.302	47568.31	0.0322	P	2.1
6	☐	500.000	529.717	94810.77	0.0673	P	6.7
7	☐	1000.000	982.982	194249.66	0.1248	P	2.4
8	☐			86.34	0.0001	P	14.9

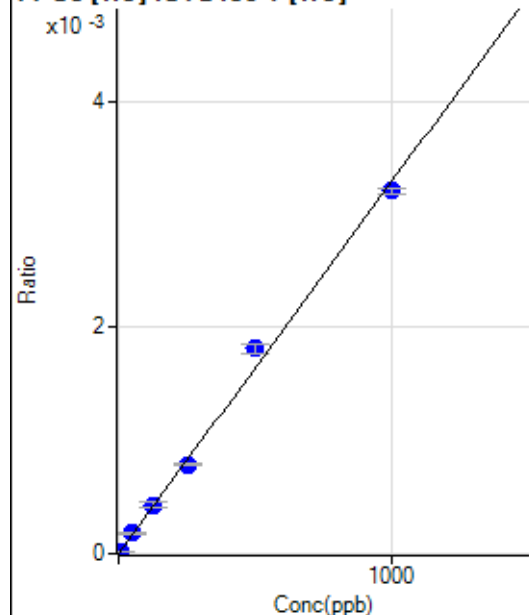
$$y = 1.2698E-004 * x + 3.1784E-006$$

$$R = 0.9993$$

$$DL = 0.02658$$

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	6.412	33.33	0.0000	P	25.9
3	☐	50.000	54.756	277.78	0.0002	P	7.2
4	☐	125.000	131.418	624.47	0.0004	P	11.0
5	☐	250.000	240.256	1168.95	0.0008	P	1.5
6	☐	500.000	551.188	2558.04	0.0018	P	5.0
7	☐	1000.000	975.795	4995.39	0.0032	P	1.3
8	☐			1.11	0.0000	P	173.2

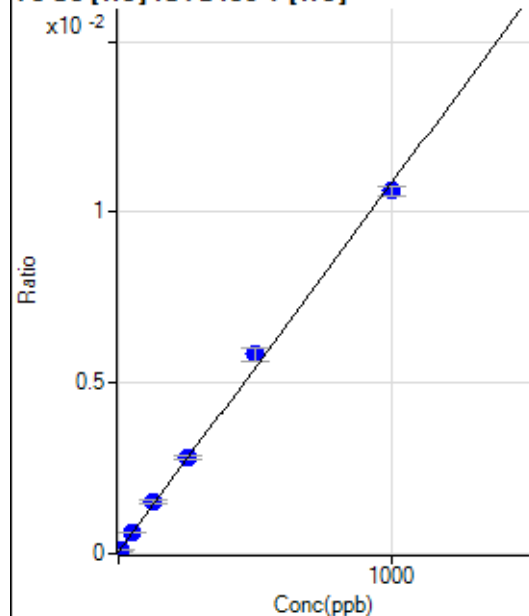
$$y = 3.2888\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9980$$

$$DL = 0$$

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	90.01	0.0001	P	6.0
2	☐	5.000	5.571	185.02	0.0001	P	5.4
3	☐	50.000	52.097	955.80	0.0006	P	1.8
4	☐	125.000	138.045	2225.40	0.0015	P	7.3
5	☐	250.000	255.611	4162.04	0.0028	P	2.6
6	☐	500.000	535.053	8215.23	0.0058	P	7.0
7	☐	1000.000	979.332	16528.33	0.0106	P	3.0
8	☐			83.34	0.0001	P	9.3

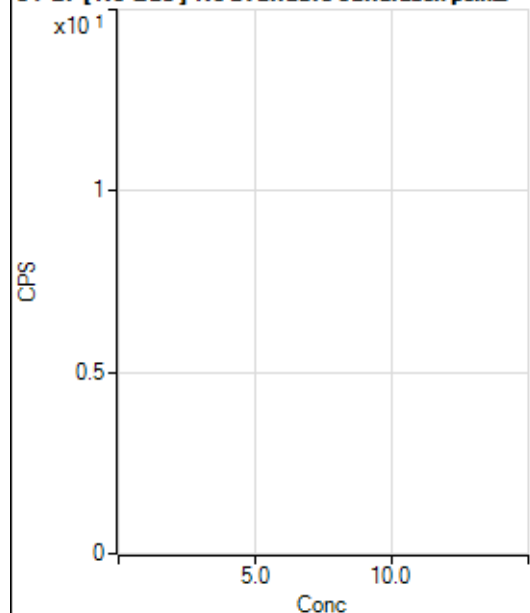
$$y = 1.0788\text{E-}005 * x + 5.7124\text{E-}005$$

$$R = 0.9990$$

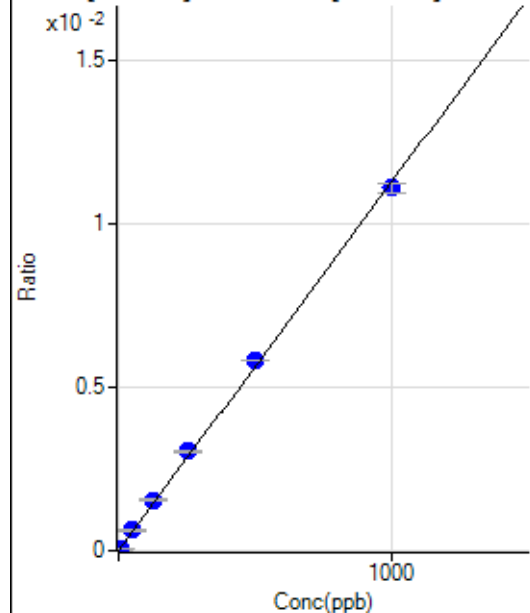
$$DL = 0.9608$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			52068.35		P	0.3
2	☐			52366.45		P	4.6
3	☐			51622.51		P	3.1
4	☐			48470.98		P	2.0
5	☐			47681.06		P	1.7
6	☐			45618.55		P	3.2
7	☐			48062.54		P	4.0
8	☐			48374.11		P	3.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-101.27	0.0000	P	-170.
2	☐	5.000	5.751	770.15	0.0001	P	5.2
3	☐	50.000	54.805	8552.33	0.0006	P	1.9
4	☐	125.000	136.323	20858.21	0.0015	P	3.4
5	☐	250.000	269.012	40279.55	0.0030	P	2.3
6	☐	500.000	517.576	79474.73	0.0058	P	0.4
7	☐	1000.000	984.800	158302.52	0.0111	P	2.8
8	☐			285.46	0.0000	P	32.4

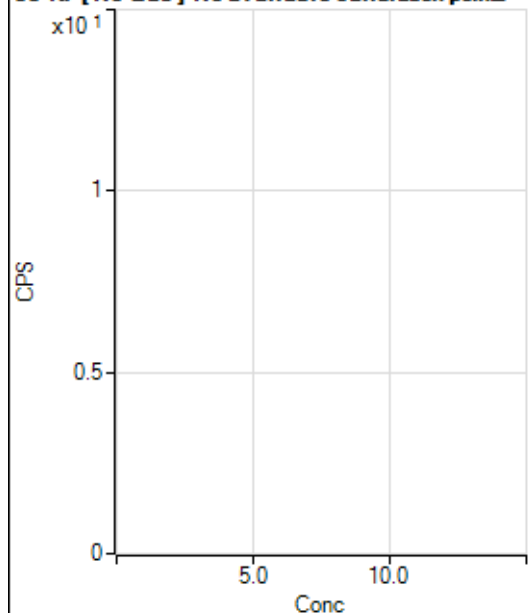
$$y = 1.1276E-005 * x - 8.2385E-006$$

$$R = 0.9995$$

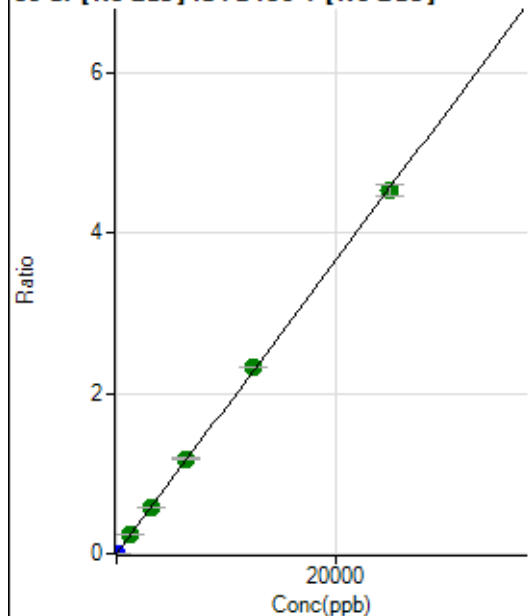
$$DL = 3.745$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4128.85		P	2.5
2	☐			4098.43		P	1.2
3	☐			4053.01		P	1.4
4	☐			3907.98		P	1.9
5	☐			3818.80		P	3.0
6	☐			3835.89		P	2.3
7	☐			3793.38		P	0.9
8	☐			4006.75		P	3.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6596.18	0.0005	P	9.5
2	☐	1.000	1.044	9492.32	0.0007	P	3.8
3	☐	1250.000	1298.770	3329672.01	0.2374	A	2.6
4	☐	3125.000	3150.419	7848528.91	0.5752	A	1.9
5	☐	6250.000	6484.330	15755465.46	1.1833	A	2.1
6	☐	12500.000	12737.626	31690460.43	2.3239	A	0.6
7	☐	25000.000	24816.989	64582423.66	4.5273	A	3.2
8	☐			22476.93	0.0016	P	2.7

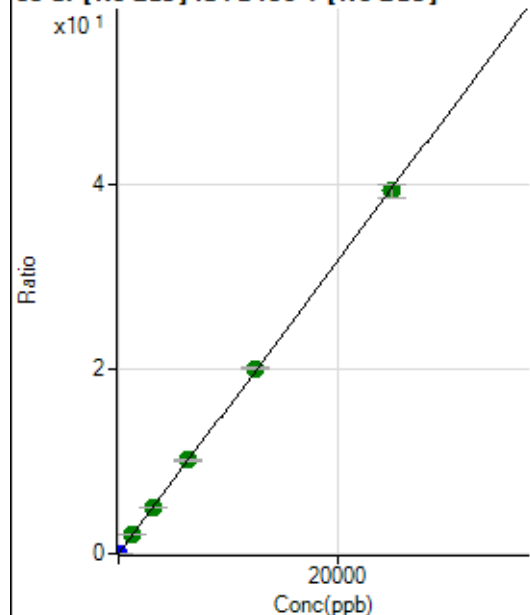
$$y = 1.8241E-004 * x + 5.0761E-004$$

$$R = 0.9999$$

$$DL = 0.7961$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1527.90	0.0001	P	5.0
2	☐	1.000	1.066	24555.44	0.0018	P	1.7
3	☐	1250.000	1282.550	28492785.01	2.0312	A	0.4
4	☐	3125.000	3211.561	69420613.36	5.0861	A	0.8
5	☐	6250.000	6400.541	134963666.9	10.1364	A	2.3
6	☐	12500.000	12682.810	273899611.6	20.0854	A	0.6
7	☐	25000.000	24858.512	561576984.7	39.3676	A	3.9
8	☐			145137.94	0.0102	P	4.5

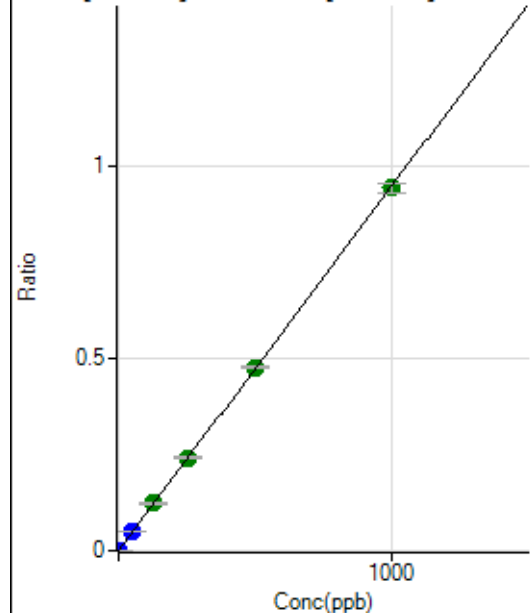
$$y = 0.0016 * x + 1.1728E-004$$

$$R = 0.9999$$

$$DL = 0.01116$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	575.03	0.0000	P	17.3
2	☐	1.000	0.986	13315.02	0.0010	P	2.1
3	☐	50.000	50.772	675979.50	0.0482	P	0.2
4	☐	125.000	129.807	1680563.63	0.1231	A	0.9
5	☐	250.000	255.769	3229892.52	0.2426	A	2.3
6	☐	500.000	503.928	6516794.89	0.4779	A	0.3
7	☐	1000.000	995.954	13473401.69	0.9444	A	2.9
8	☐			5801.36	0.0004	P	5.6

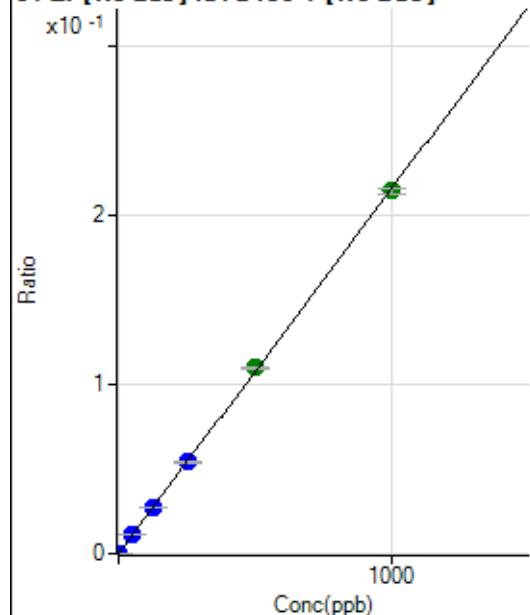
$$y = 9.4824E-004 * x + 4.3800E-005$$

$$R = 1.0000$$

$$DL = 0.02396$$

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	91.67	0.0000	P	28.6
2	☐	1.000	1.042	3147.67	0.0002	P	1.9
3	☐	50.000	50.634	152957.85	0.0109	P	1.7
4	☐	125.000	126.277	370888.75	0.0272	P	3.3
5	☐	250.000	252.269	723062.62	0.0543	P	2.2
6	☐	500.000	509.450	1495376.31	0.1097	A	0.4
7	☐	1000.000	994.516	3054366.26	0.2141	A	1.4
8	☐			1305.65	0.0001	P	6.6

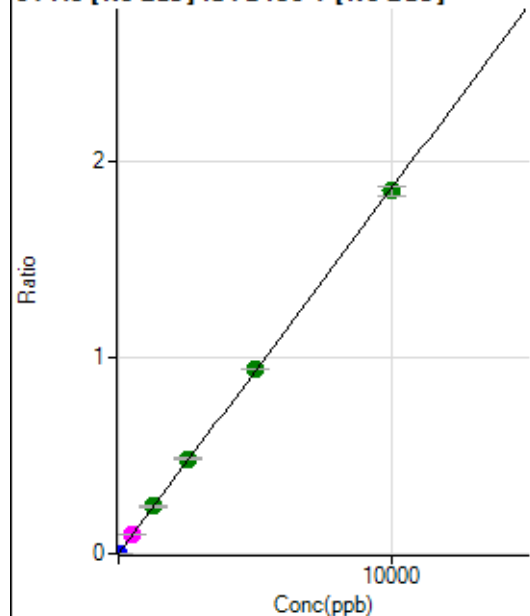
$$y = 2.1524\text{E-}004 * x + 7.0935\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.02828$$

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	200.01	0.0000	P	38.0
2	☐	5.000	6.074	15614.69	0.0011	P	3.2
3	☐	500.000	515.239	1348667.03	0.0962	M	1.5
4	☐	1250.000	1293.525	3292488.79	0.2414	A	4.2
5	☐	2500.000	2599.133	6457651.49	0.4850	A	2.2
6	☐	5000.000	5068.480	12896696.47	0.9457	A	0.1
7	☐	10000.000	9934.774	26447040.87	1.8537	A	3.0
8	☐			9809.29	0.0007	P	2.4

$$y = 1.8659\text{E-}004 * x + 1.5147\text{E-}005$$

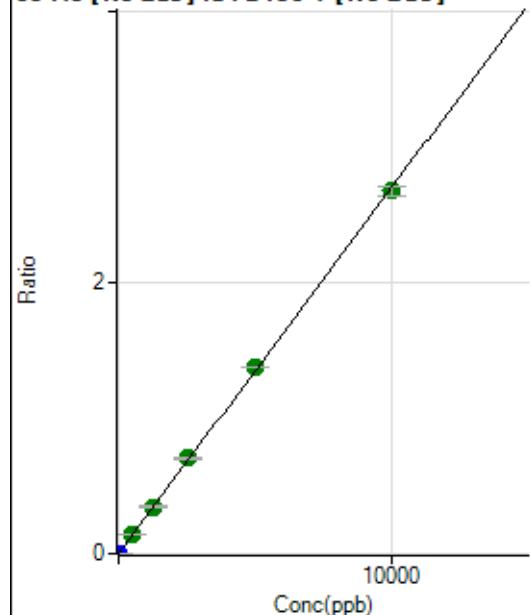
$$R = 0.9999$$

$$DL = 0.09252$$

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	50.00	0.0000	P	17.5
2	☐	5.000	5.182	19071.84	0.0014	P	4.5
3	☐	500.000	516.923	1957543.34	0.1396	A	1.0
4	☐	1250.000	1280.313	4715579.19	0.3456	A	4.0
5	☐	2500.000	2603.406	9358397.69	0.7028	A	2.2
6	☐	5000.000	5108.454	18806654.76	1.3791	A	0.6
7	☐	10000.000	9915.286	38187195.65	2.6768	A	2.9
8	☐			11605.18	0.0008	P	5.9

$$y = 2.6997E-004 * x + 3.8439E-006$$

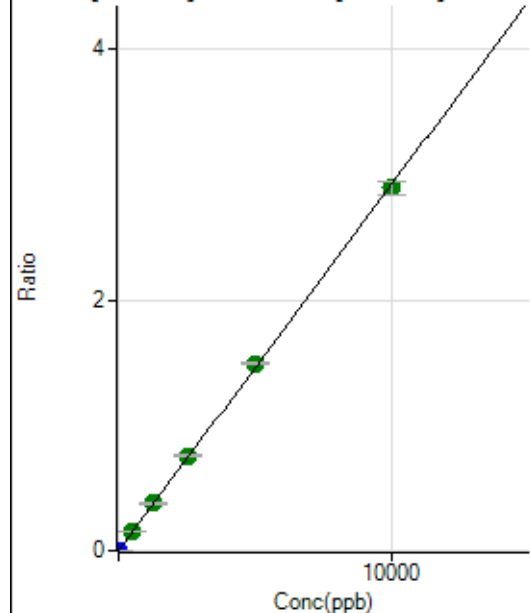
$$R = 0.9999$$

$$DL = 0.007468$$

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	488.91	0.0000	P	17.8
2	☐	5.000	5.438	22126.41	0.0016	P	2.8
3	☐	500.000	519.373	2129887.42	0.1518	A	1.1
4	☐	1250.000	1291.755	5153245.12	0.3776	A	2.3
5	☐	2500.000	2597.894	10111450.14	0.7594	A	1.9
6	☐	5000.000	5120.451	20409942.82	1.4967	A	0.2
7	☐	10000.000	9909.113	41317017.59	2.8964	A	3.4
8	☐			38490.99	0.0027	P	3.2

$$y = 2.9229E-004 * x + 3.7757E-005$$

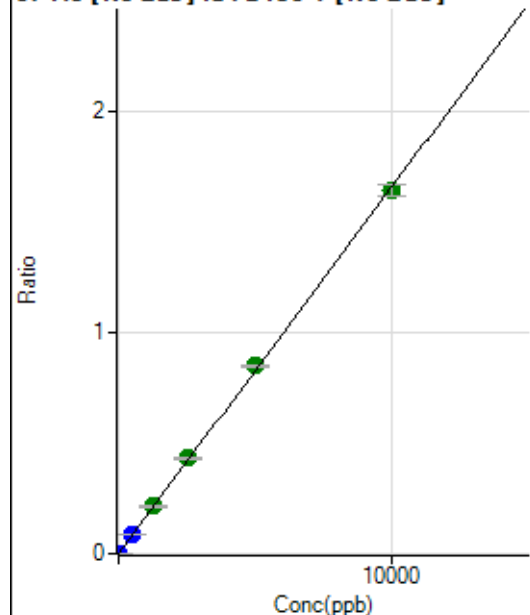
$$R = 0.9998$$

$$DL = 0.06917$$

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	38.89	0.0000	P	16.7
2	☐	5.000	5.389	12158.38	0.0009	P	0.4
3	☐	500.000	520.525	1206996.89	0.0860	P	0.6
4	☐	1250.000	1291.285	2912992.34	0.2135	A	1.7
5	☐	2500.000	2605.978	5736272.48	0.4308	A	1.4
6	☐	5000.000	5126.938	11556932.55	0.8475	A	0.6
7	☐	10000.000	9903.849	23353914.24	1.6371	A	3.3
8	☐			7499.51	0.0005	P	7.1

$$y = 1.6530E-004 * x + 2.9976E-006$$

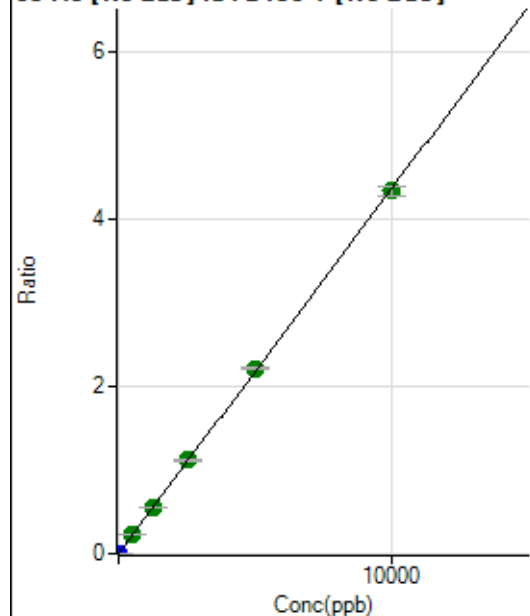
$$R = 0.9998$$

$$DL = 0.009074$$

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	205.56	0.0000	P	38.4
2	☐	5.000	5.342	31831.63	0.0023	P	2.3
3	☐	500.000	516.754	3155281.06	0.2249	A	2.2
4	☐	1250.000	1267.607	7528452.60	0.5518	A	2.4
5	☐	2500.000	2563.811	14860292.00	1.1160	A	1.5
6	☐	5000.000	5068.566	30084186.78	2.2062	A	1.3
7	☐	10000.000	9946.726	61765943.74	4.3295	A	2.6
8	☐			17528.33	0.0012	P	2.8

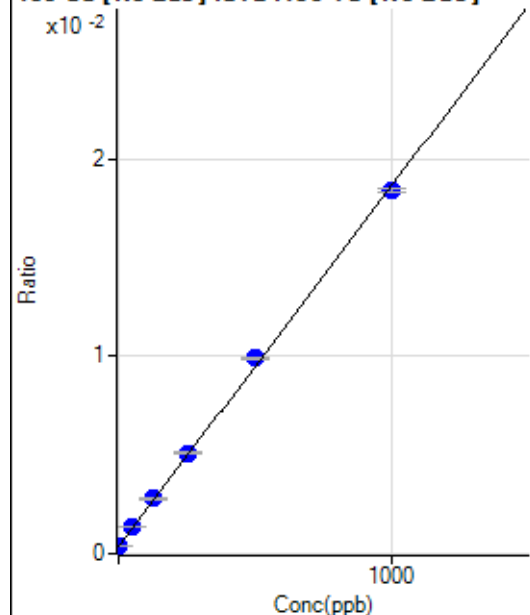
$$y = 4.3527E-004 * x + 1.5542E-005$$

$$R = 0.9999$$

$$DL = 0.04117$$

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	3861.75	0.0004	P	9.5
2	☐	1.000	-0.106	4059.07	0.0004	P	11.4
3	☐	50.000	55.744	15545.35	0.0014	P	3.2
4	☐	125.000	132.120	31066.20	0.0028	P	0.8
5	☐	250.000	257.953	56017.26	0.0051	P	1.9
6	☐	500.000	522.441	110579.40	0.0099	P	1.3
7	☐	1000.000	985.615	217775.11	0.0184	P	0.9
8	☐			4214.65	0.0004	P	10.1

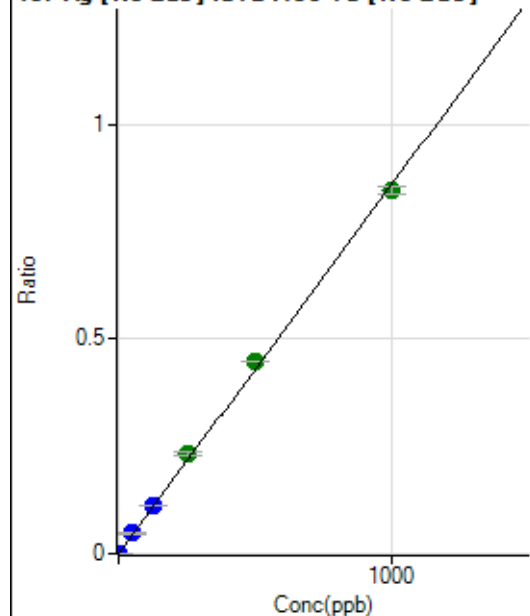
$$y = 1.8298\text{E-}005 * x + 3.6831\text{E-}004$$

$$R = 0.9996$$

$$DL = 5.728$$

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	144.45	0.0000	P	31.9
2	☐	1.000	1.076	10404.22	0.0009	P	3.4
3	☐	50.000	55.107	529623.13	0.0473	P	2.2
4	☐	125.000	131.117	1255132.12	0.1126	P	0.3
5	☐	250.000	270.040	2551583.11	0.2318	A	3.0
6	☐	500.000	520.518	4976298.64	0.4468	A	0.4
7	☐	1000.000	983.711	9990813.42	0.8443	A	2.0
8	☐			3831.19	0.0003	P	6.3

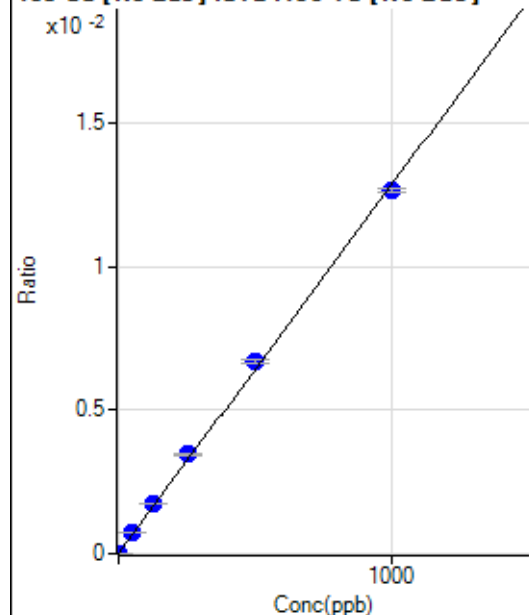
$$y = 8.5831\text{E-}004 * x + 1.3907\text{E-}005$$

$$R = 0.9995$$

$$DL = 0.01551$$

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	63.89	0.0000	P	14.5
2	☐	1.000	1.453	275.01	0.0000	P	6.9
3	☐	50.000	55.549	8059.40	0.0007	P	2.2
4	☐	125.000	133.975	19269.21	0.0017	P	1.5
5	☐	250.000	270.473	38332.65	0.0035	P	2.2
6	☐	500.000	519.119	74367.68	0.0067	P	2.1
7	☐	1000.000	983.922	149699.34	0.0127	P	1.2
8	☐			183.34	0.0000	P	40.3

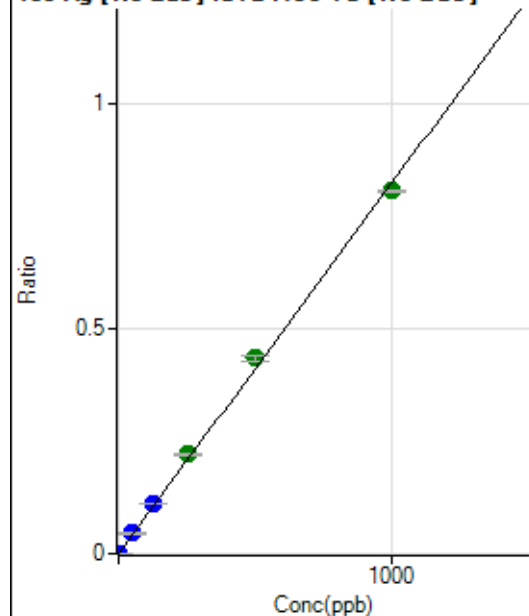
$$y = 1.2851\text{E-}005 * x + 6.1107\text{E-}006$$

$$R = 0.9995$$

$$DL = 0.2072$$

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	155.56	0.0000	P	30.0
2	☐	1.000	1.053	9795.47	0.0009	P	2.5
3	☐	50.000	55.039	507428.38	0.0453	P	2.0
4	☐	125.000	133.279	1223839.61	0.1097	P	0.9
5	☐	250.000	269.288	2441109.04	0.2217	A	2.1
6	☐	500.000	527.947	4841743.29	0.4347	A	3.0
7	☐	1000.000	979.918	9547166.10	0.8068	A	0.7
8	☐			3464.42	0.0003	P	5.1

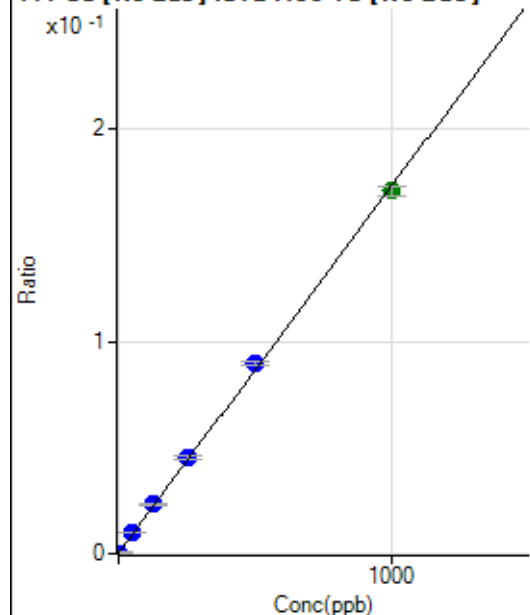
$$y = 8.2330\text{E-}004 * x + 1.4912\text{E-}005$$

$$R = 0.9992$$

$$DL = 0.01631$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2705.72	0.0003	P	9.4
2	☐	1.000	1.063	4899.05	0.0004	P	8.2
3	☐	50.000	54.280	107990.52	0.0096	P	2.3
4	☐	125.000	132.266	258015.31	0.0231	P	0.7
5	☐	250.000	260.404	498692.04	0.0453	P	2.3
6	☐	500.000	517.645	1000127.49	0.0898	P	1.1
7	☐	1000.000	987.454	2024110.16	0.1711	A	2.5
8	☐			3477.50	0.0003	P	10.1

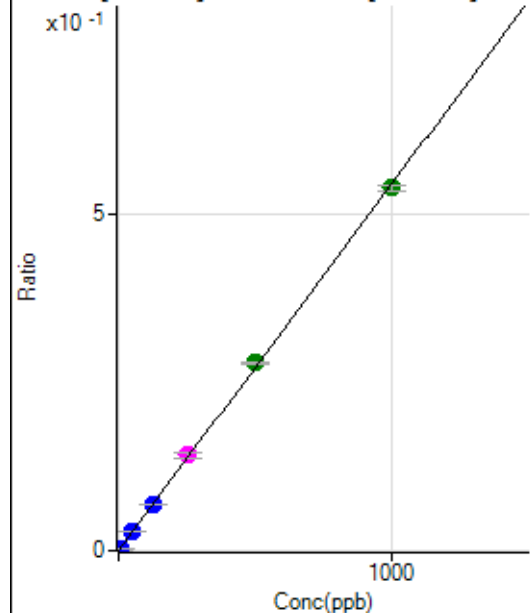
$$y = 1.7298\text{E-}004 * x + 2.5798\text{E-}004$$

$$R = 0.9997$$

$$DL = 0.4218$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1461.24	0.0001	P	11.8
2	☐	5.000	5.296	33519.44	0.0030	P	5.4
3	☐	50.000	52.584	321813.26	0.0287	P	0.2
4	☐	125.000	126.996	771886.53	0.0692	P	1.3
5	☐	250.000	259.879	1557169.41	0.1415	M	4.8
6	☐	500.000	513.755	3114456.54	0.2796	A	1.0
7	☐	1000.000	990.272	6375759.30	0.5388	A	1.3
8	☐			6512.85	0.0006	P	5.3

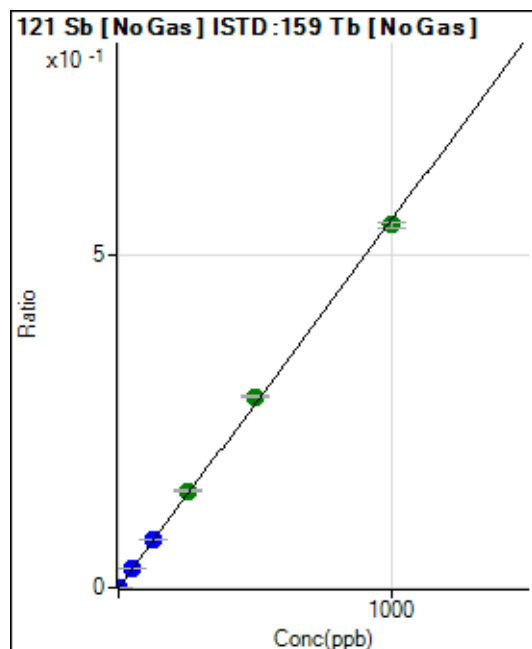
$$y = 5.4396\text{E-}004 * x + 1.3965\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.09079$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	52.78	0.0000	P	50.6
2	☐	2.000	2.064	12692.35	0.0011	P	6.8
3	☐	50.000	52.492	324435.19	0.0290	P	1.0
4	☐	125.000	128.731	792435.17	0.0711	P	0.7
5	☐	250.000	262.406	1594602.45	0.1448	A	1.9
6	☐	500.000	519.318	3192795.75	0.2867	A	0.7
7	☐	1000.000	986.649	6444348.32	0.5446	A	1.4
8	☐			5342.88	0.0005	P	12.0

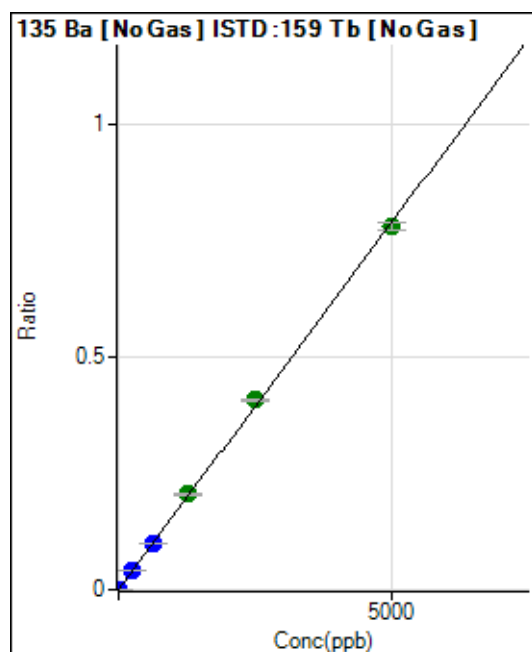
$$y = 5.5197\text{E-}004 * x + 4.8975\text{E-}006$$

$$R = 0.9996$$

$$DL = 0.01347$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.45	0.0000	P	56.5
2	☐	10.000	10.056	17667.60	0.0016	P	3.9
3	☐	250.000	258.152	456239.26	0.0408	P	1.0
4	☐	625.000	633.389	1114917.87	0.1000	P	1.2
5	☐	1250.000	1305.920	2269340.00	0.2061	A	1.9
6	☐	2500.000	2583.349	4541676.01	0.4078	A	1.3
7	☐	5000.000	4942.889	9231685.62	0.7802	A	2.0
8	☐			3858.98	0.0003	P	4.9

$$y = 1.5784\text{E-}004 * x + 4.2649\text{E-}006$$

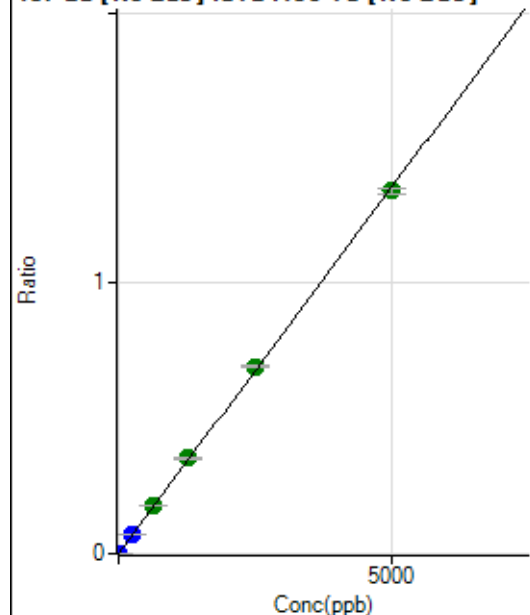
$$R = 0.9997$$

$$DL = 0.04584$$

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	94.45	0.0000	P	17.0
2	☐	10.000	10.266	30933.19	0.0028	P	4.9
3	☐	250.000	261.358	791830.10	0.0707	P	2.3
4	☐	625.000	648.990	1958646.23	0.1756	A	0.1
5	☐	1250.000	1308.941	3899722.22	0.3542	A	2.0
6	☐	2500.000	2555.910	7704524.56	0.6917	A	0.6
7	☐	5000.000	4953.743	15863041.16	1.3406	A	1.5
8	☐			6532.33	0.0006	P	3.3

$$y = 2.7062E-004 * x + 9.0438E-006$$

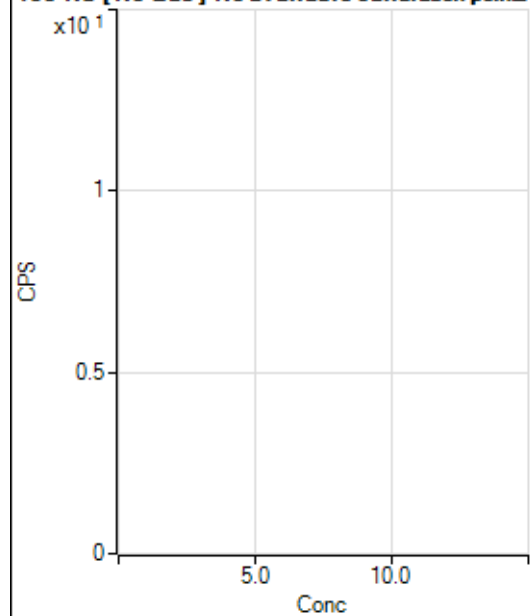
$$R = 0.9998$$

$$DL = 0.01705$$

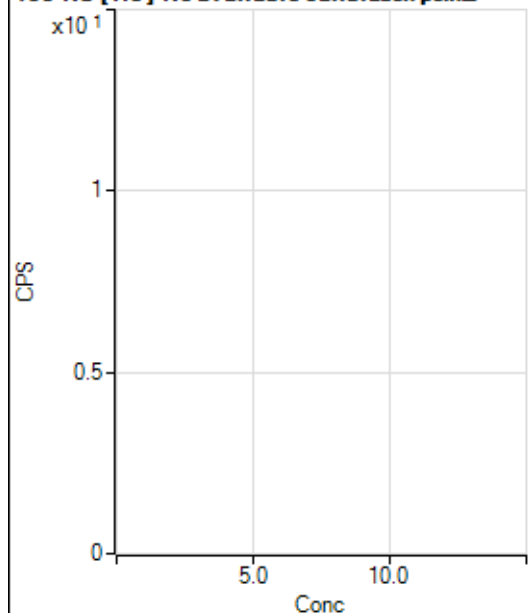
Weight: <None>

Min Conc: 0

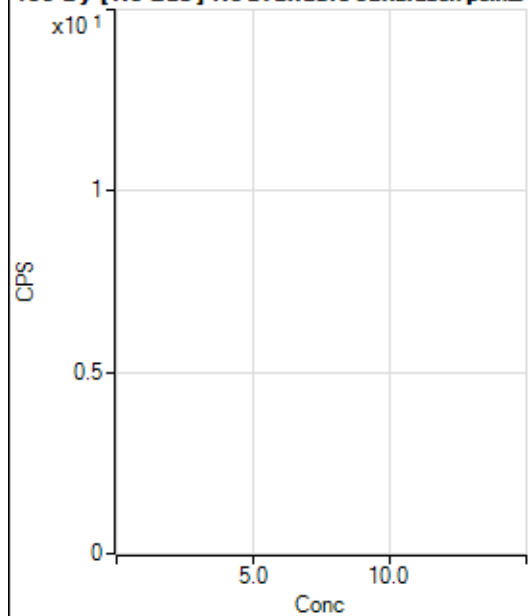
150 Nd [No Gas] No available calibration points



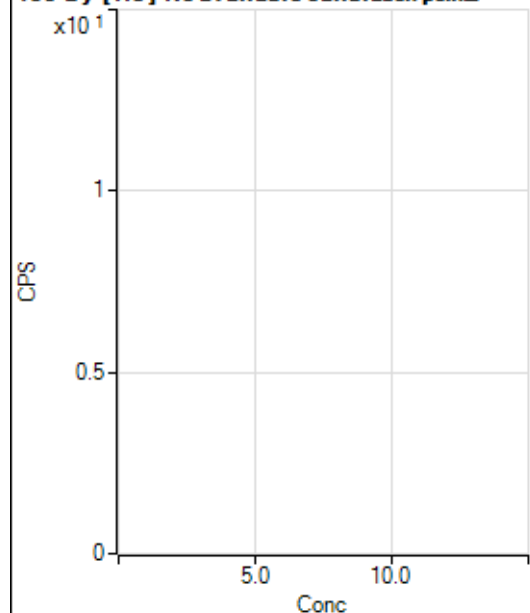
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			11.11		P	91.7
2	☐			11.11		P	34.6
3	☐			40.00		P	44.1
4	☐			95.56		P	17.6
5	☐			151.11		P	14.2
6	☐			311.12		P	4.5
7	☐			646.69		P	11.9
8	☐			104.45		P	18.4

150 Nd [He] No available calibration points

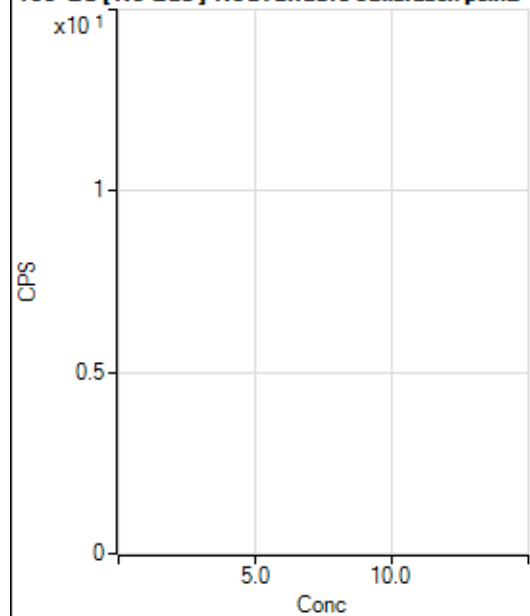
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			2.22		P	86.6
3	☐			2.22		P	86.6
4	☐			7.78		P	49.5
5	☐			3.33		P	100.1
6	☐			8.89		P	57.3
7	☐			42.22		P	31.9
8	☐			28.89		P	40.5

156 Dy [No Gas] No available calibration points

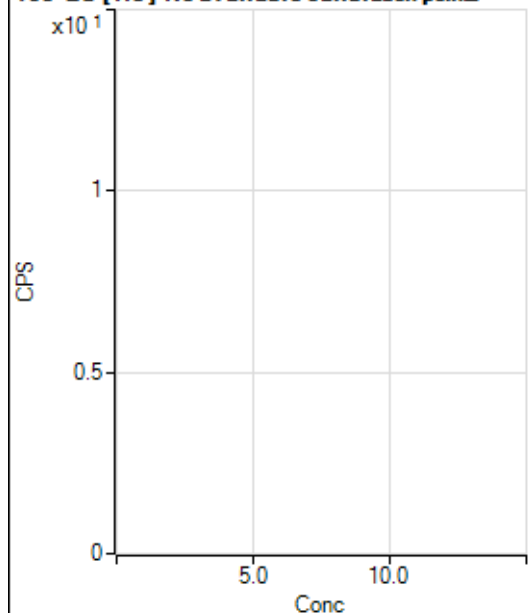
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐			16.67		P	100.0
3	☐			27.78		P	96.4
4	☐			55.56		P	48.2
5	☐			88.89		P	23.6
6	☐			152.78		P	17.5
7	☐			288.90		P	14.8
8	☐			891.72		P	12.4

156 Dy [He] No available calibration points

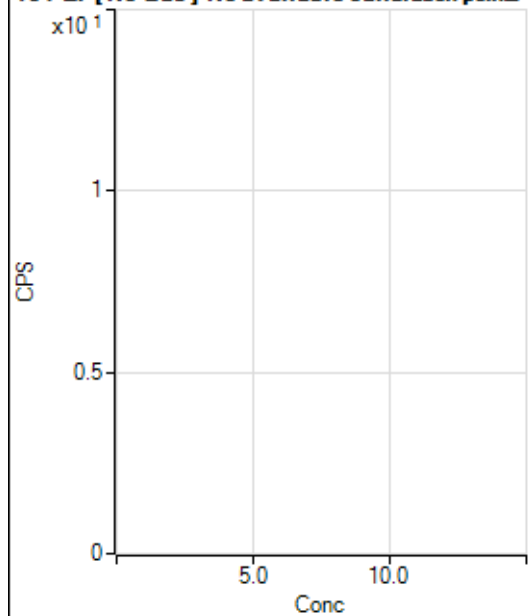
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.1
2	☐			5.56		P	34.7
3	☐			5.56		P	91.6
4	☐			17.78		P	28.6
5	☐			30.00		P	29.4
6	☐			55.55		P	24.3
7	☐			108.89		P	12.4
8	☐			268.89		P	21.2

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

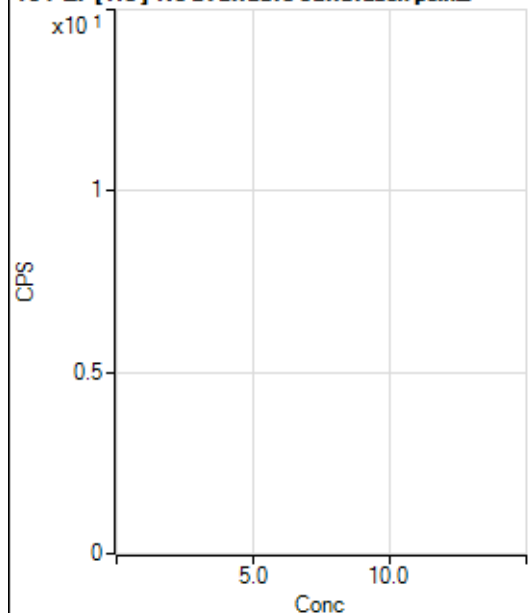
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	20.8
2	☐			55.56		P	22.9
3	☐			88.89		P	28.6
4	☐			77.78		P	34.4
5	☐			102.78		P	12.4
6	☐			136.12		P	21.5
7	☐			222.23		P	2.2
8	☐			652.81		P	8.7

160 Gd [He] No available calibration points

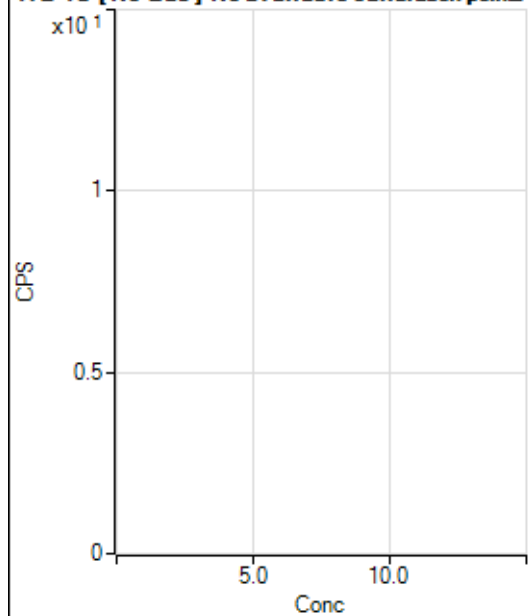
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			92.22		P	19.9
2	☐			83.33		P	14.4
3	☐			82.22		P	27.6
4	☐			85.56		P	58.6
5	☐			107.78		P	21.1
6	☐			114.44		P	16.6
7	☐			153.34		P	11.5
8	☐			321.12		P	22.0

164 Er [No Gas] No available calibration points

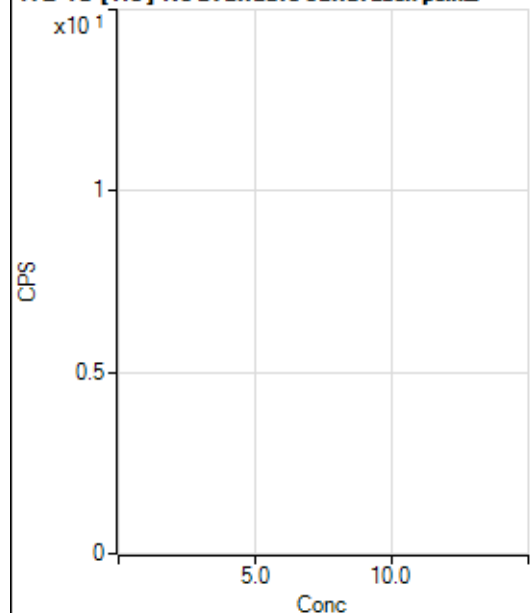
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			83.34		P	20.0
2	☐			94.45		P	28.4
3	☐			44.45		P	10.8
4	☐			91.67		P	48.1
5	☐			66.67		P	43.3
6	☐			88.89		P	27.1
7	☐			105.56		P	12.1
8	☐			130.56		P	9.8

164 Er [He] No available calibration points

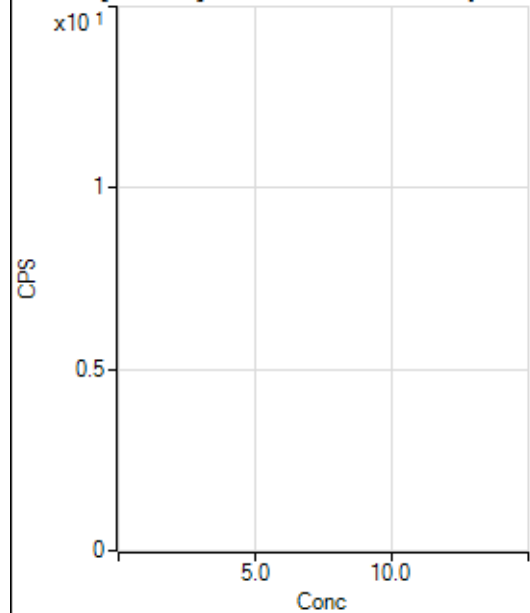
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.56		P	74.2
2	☐			38.89		P	9.9
3	☐			33.33		P	10.0
4	☐			21.11		P	45.6
5	☐			32.22		P	41.8
6	☐			28.89		P	52.0
7	☐			27.78		P	18.3
8	☐			52.22		P	19.5

172 Yb [No Gas] No available calibration points

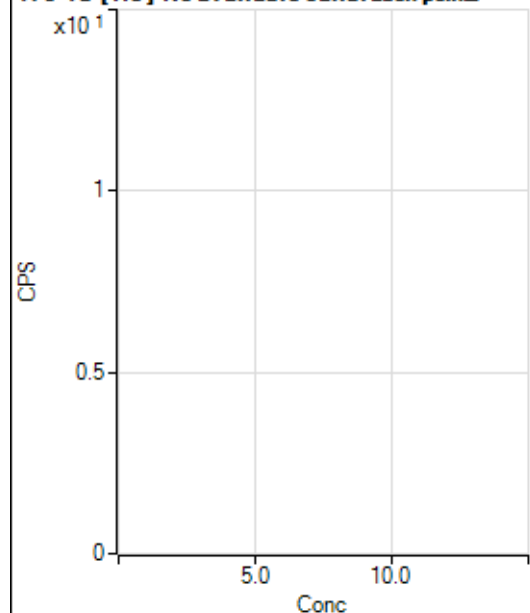
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			72.23		P	26.7
2	☐			91.67		P	41.7
3	☐			72.22		P	53.3
4	☐			66.67		P	43.3
5	☐			77.78		P	24.7
6	☐			108.34		P	35.2
7	☐			127.78		P	27.1
8	☐			186.11		P	28.4

172 Yb [He] No available calibration points

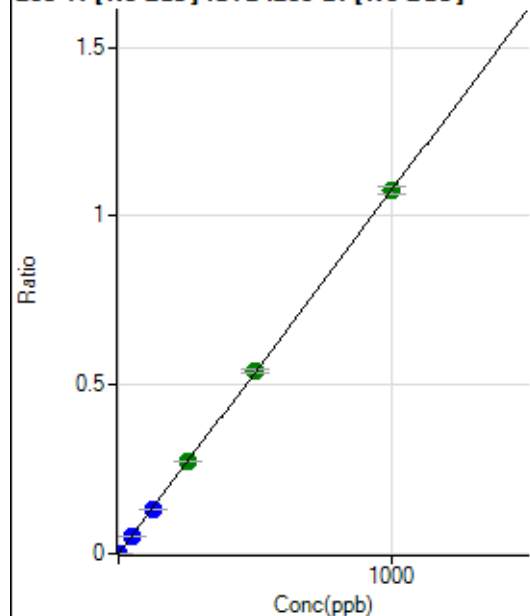
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14.82		P	78.1
2	☐			29.63		P	71.0
3	☐			33.33		P	33.3
4	☐			22.22		P	43.3
5	☐			25.92		P	24.7
6	☐			22.22		P	50.0
7	☐			37.04		P	48.2
8	☐			88.89		P	6.2

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1514.02		P	3.9
2	☐			1450.11		P	3.2
3	☐			3030.99		P	2.2
4	☐			4981.63		P	2.7
5	☐			8400.13		P	3.2
6	☐			15779.34		P	4.0
7	☐			31900.20		P	0.6
8	☐			1683.49		P	4.1

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6181.19		P	2.2
2	☐			6175.63		P	2.1
3	☐			6909.33		P	3.0
4	☐			7163.19		P	4.3
5	☐			8786.38		P	1.8
6	☐			11473.70		P	7.1
7	☐			17357.98		P	4.6
8	☐			6440.59		P	2.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	858.38	0.0001	P	16.5
2	☐	1.000	0.950	7769.18	0.0012	P	4.3
3	☐	50.000	46.990	354717.87	0.0507	P	3.6
4	☐	125.000	121.580	883265.39	0.1309	P	3.5
5	☐	250.000	253.305	1857959.68	0.2726	A	0.7
6	☐	500.000	501.674	3726949.91	0.5397	A	2.2
7	☐	1000.000	998.915	7518386.63	1.0745	A	2.2
8	☐			3839.56	0.0006	P	8.0

$$y = 0.0011 * x + 1.3424E-004$$

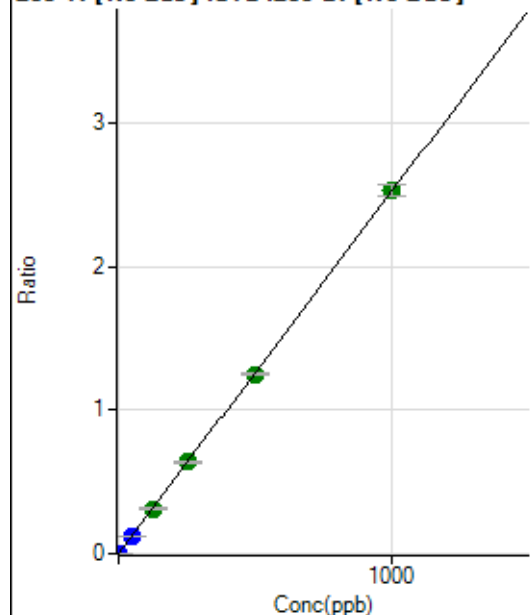
$$R = 1.0000$$

$$DL = 0.06191$$

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	1952.98	0.0003	P	11.5
2	☐	1.000	0.947	18057.49	0.0027	P	7.2
3	☐	50.000	46.424	820833.72	0.1172	P	1.7
4	☐	125.000	124.413	2116546.05	0.3136	A	2.5
5	☐	250.000	252.359	4333762.42	0.6359	A	1.9
6	☐	500.000	494.609	8604855.40	1.2460	A	1.0
7	☐	1000.000	1002.358	17663277.30	2.5248	A	3.3
8	☐			8986.69	0.0014	P	3.5

$$y = 0.0025 * x + 3.0401E-004$$

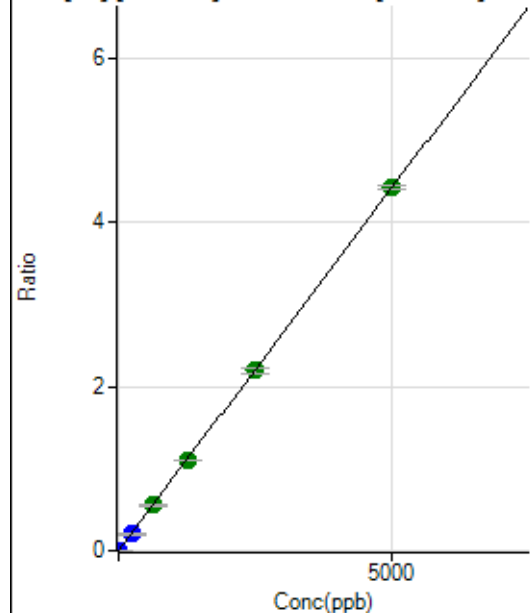
$$R = 1.0000$$

$$DL = 0.04157$$

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	938.94	0.0001	P	6.2
2	☐	1.000	0.910	6379.47	0.0009	P	7.7
3	☐	250.000	227.419	1408116.37	0.2011	P	2.5
4	☐	625.000	626.814	3739100.78	0.5541	A	2.3
5	☐	1250.000	1254.583	7557939.17	1.1088	A	0.8
6	☐	2500.000	2487.688	15183646.64	2.1986	A	2.8
7	☐	5000.000	5005.913	30959125.00	4.4240	A	1.1
8	☐			7020.59	0.0011	P	2.4

$$y = 8.8372E-004 * x + 1.4601E-004$$

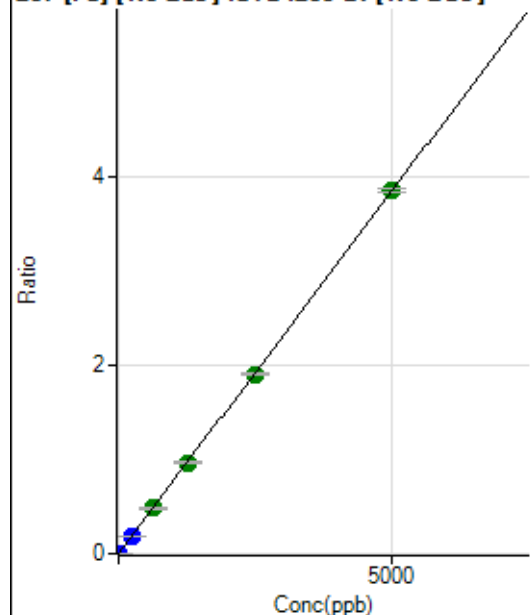
$$R = 1.0000$$

$$DL = 0.0306$$

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	779.67	0.0001	P	10.0
2	☐	1.000	0.964	5792.13	0.0009	P	4.9
3	☐	250.000	232.201	1249550.29	0.1785	P	2.2
4	☐	625.000	627.501	3253265.84	0.4821	A	2.1
5	☐	1250.000	1258.223	6587102.12	0.9665	A	1.8
6	☐	2500.000	2479.080	13150488.84	1.9042	A	1.2
7	☐	5000.000	5008.981	26922540.18	3.8473	A	1.2
8	☐			6157.13	0.0010	P	2.1

$$y = 7.6805E-004 * x + 1.2150E-004$$

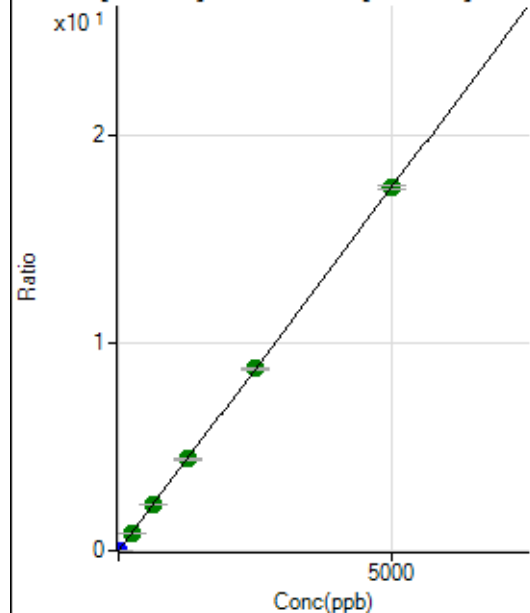
$$R = 1.0000$$

$$DL = 0.04762$$

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	3572.48	0.0006	P	11.0
2	☐	1.000	0.945	25960.65	0.0039	P	6.2
3	☐	250.000	239.678	5873567.33	0.8389	A	2.2
4	☐	625.000	629.204	14856109.79	2.2013	A	1.8
5	☐	1250.000	1260.535	30054892.23	4.4095	A	1.1
6	☐	2500.000	2504.537	60502065.82	8.7607	A	1.4
7	☐	5000.000	4995.088	122269075.8	17.4719	A	1.0
8	☐			28183.22	0.0045	P	4.5

$$y = 0.0035 * x + 5.5713E-004$$

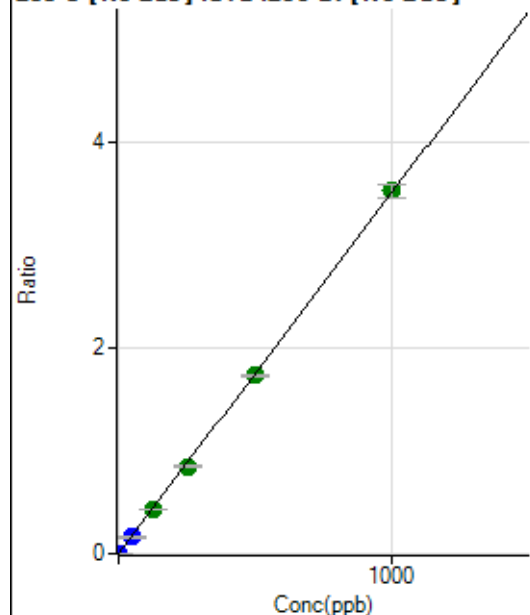
$$R = 1.0000$$

$$DL = 0.05254$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	25.00	0.0000	P	26.2
2	☐	1.000	0.896	21145.86	0.0031	P	6.6
3	☐	50.000	45.324	1112986.02	0.1589	P	2.2
4	☐	125.000	122.187	2891878.02	0.4285	A	1.3
5	☐	250.000	242.421	5794281.90	0.8500	A	1.3
6	☐	500.000	494.422	11972694.97	1.7337	A	0.8
7	☐	1000.000	1005.269	24654563.05	3.5250	A	3.7
8	☐			1591.82	0.0003	P	5.9

$$y = 0.0035 * x + 3.8226E-006$$

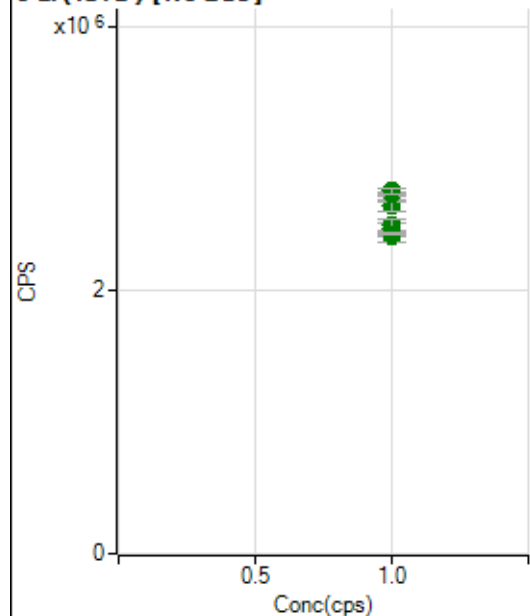
$$R = 0.9999$$

$$DL = 0.0008577$$

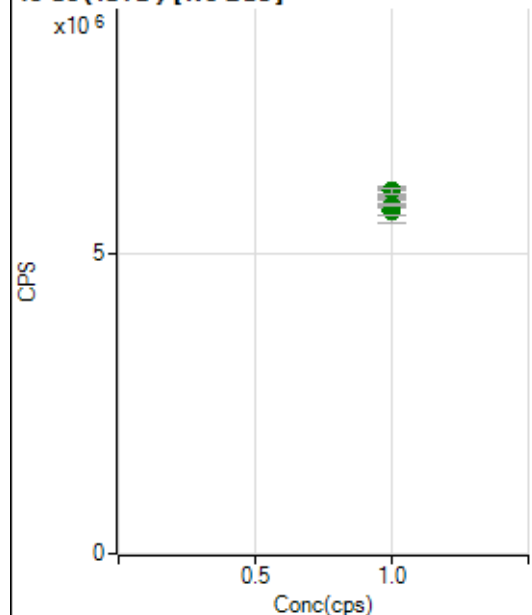
Weight: <None>

Min Conc: 0

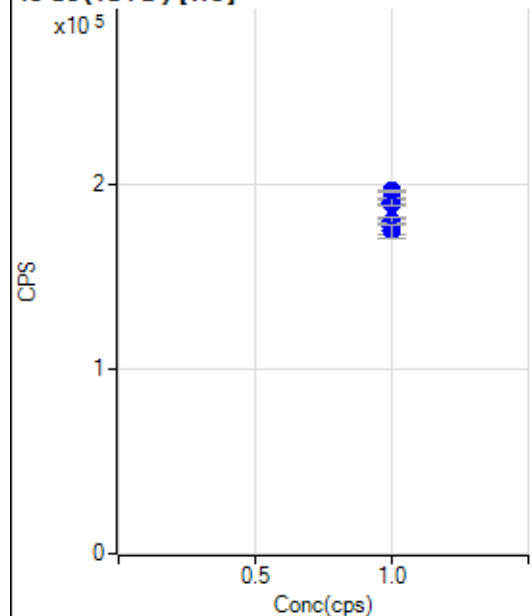
6 Li (ISTD) [No Gas]



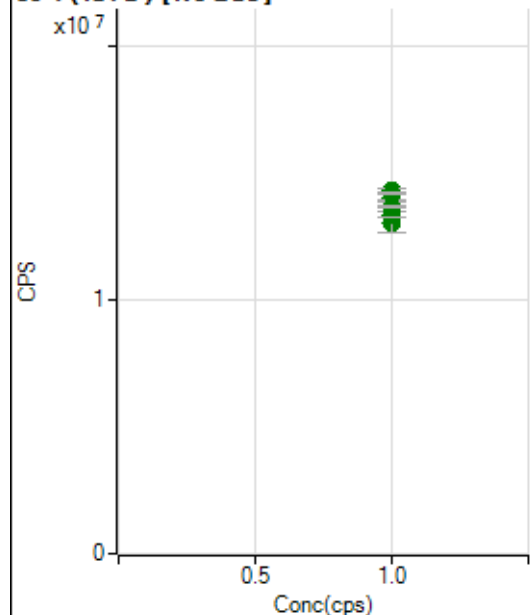
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		2407404.93		A	3.5
2	☐	1.000		2464131.62		A	4.1
3	☐	1.000		2496920.49		A	3.8
4	☐	1.000		2644174.79		A	3.0
5	☐	1.000		2636022.79		A	2.7
6	☐	1.000		2729903.01		A	1.1
7	☐	1.000		2754139.93		A	1.6
8	☐	1.000		2429280.40		A	0.7

45 Sc (ISTD) [No Gas]

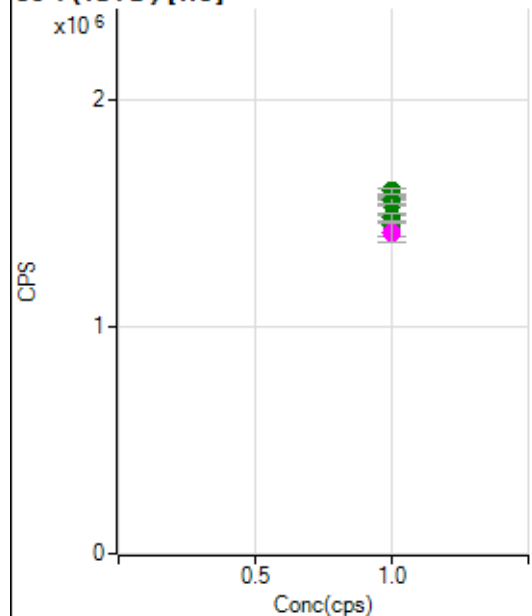
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5727359.57		A	7.5
2	☐	1.000		5931840.75		A	3.9
3	☐	1.000		6037054.22		A	1.2
4	☐	1.000		5913038.80		A	0.8
5	☐	1.000		5698986.17		A	2.7
6	☐	1.000		5807848.73		A	0.5
7	☐	1.000		6038279.98		A	2.3
8	☐	1.000		6041451.85		A	1.8

45 Sc (ISTD) [He]

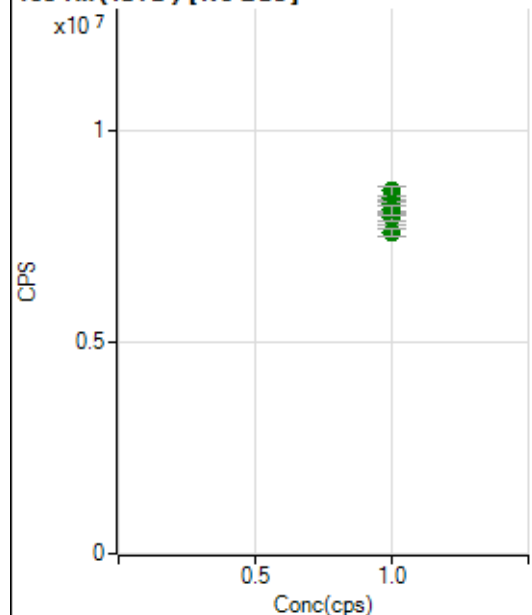
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		190206.62		P	1.0
2	☐	1.000		191860.09		P	0.8
3	☐	1.000		190013.32		P	1.6
4	☐	1.000		177108.75		P	4.8
5	☐	1.000		180408.64		P	1.8
6	☐	1.000		174552.44		P	4.4
7	☐	1.000		190505.75		P	2.4
8	☐	1.000		196446.60		P	0.5

89 Y (ISTD) [No Gas]

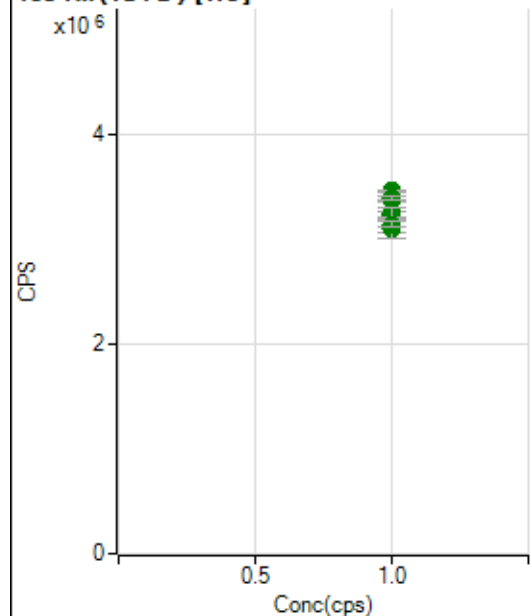
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13047456.19		A	6.4
2	☐	1.000		13601671.46		A	1.8
3	☐	1.000		14027714.93		A	1.2
4	☐	1.000		13650091.32		A	2.6
5	☐	1.000		13318250.77		A	1.8
6	☐	1.000		13636593.96		A	0.4
7	☐	1.000		14270374.09		A	1.7
8	☐	1.000		14180140.35		A	0.6

89 Y (ISTD) [He]

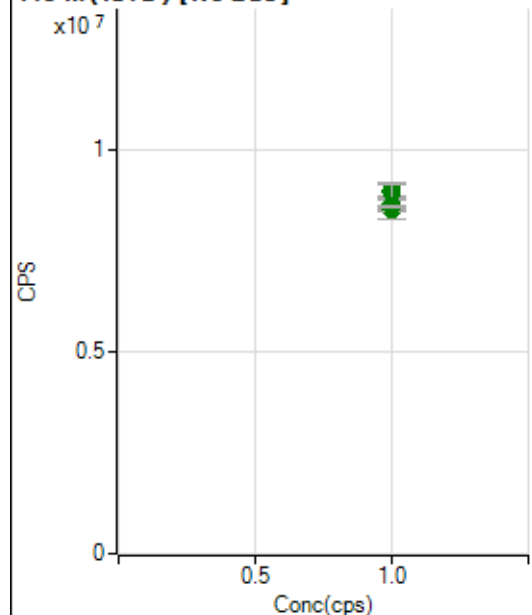
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1575664.13		A	1.2
2	☐	1.000		1578676.09		A	0.7
3	☐	1.000		1543519.14		A	1.6
4	☐	1.000		1443895.13		A	6.8
5	☐	1.000		1479149.18		A	2.1
6	☐	1.000		1413404.01		M	6.3
7	☐	1.000		1556765.27		A	2.5
8	☐	1.000		1597625.55		A	1.6

103 Rh (ISTD) [No Gas]

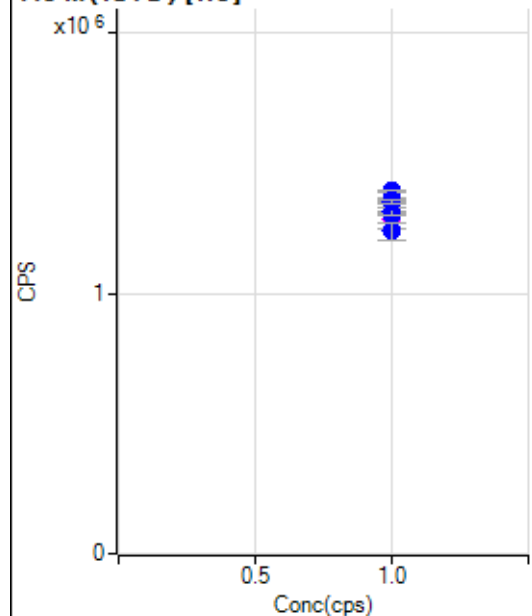
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8084990.20		A	7.2
2	☐	1.000		8397985.78		A	1.9
3	☐	1.000		8586624.06		A	2.5
4	☐	1.000		8275385.69		A	0.8
5	☐	1.000		8051226.57		A	0.8
6	☐	1.000		7961517.36		A	2.1
7	☐	1.000		8137769.45		A	2.6
8	☐	1.000		7594670.14		A	2.5

103 Rh (ISTD) [He]

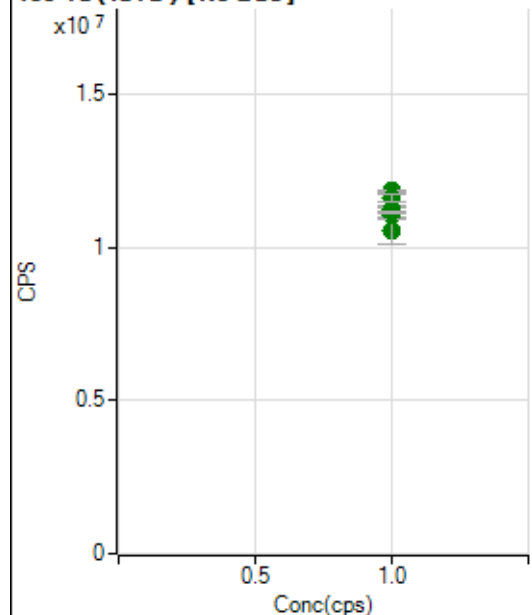
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3374966.68		A	0.6
2	☐	1.000		3461016.27		A	0.5
3	☐	1.000		3389558.18		A	1.0
4	☐	1.000		3136327.63		A	4.9
5	☐	1.000		3237277.97		A	2.1
6	☐	1.000		3101724.57		A	5.5
7	☐	1.000		3252849.64		A	2.5
8	☐	1.000		3144110.54		A	1.4

115 In (ISTD) [No Gas]

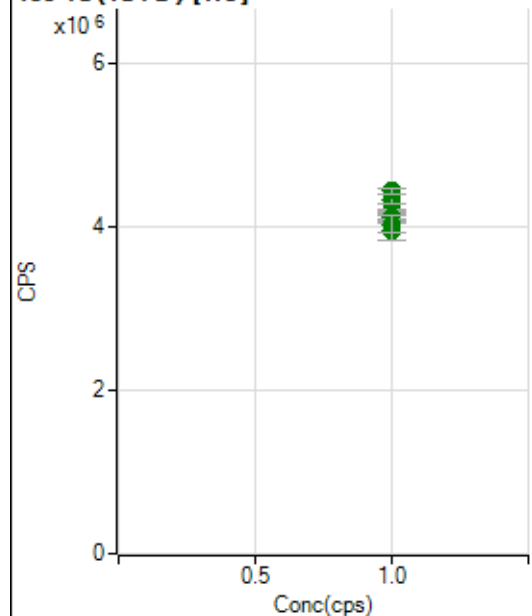
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8553623.63		A	5.5
2	☐	1.000		9004778.86		A	4.3
3	☐	1.000		8863406.18		A	0.7
4	☐	1.000		8702438.00		A	1.7
5	☐	1.000		8532475.03		A	0.7
6	☐	1.000		8538502.31		A	0.7
7	☐	1.000		8974289.33		A	4.1
8	☐	1.000		8628839.97		A	0.8

115 In (ISTD) [He]

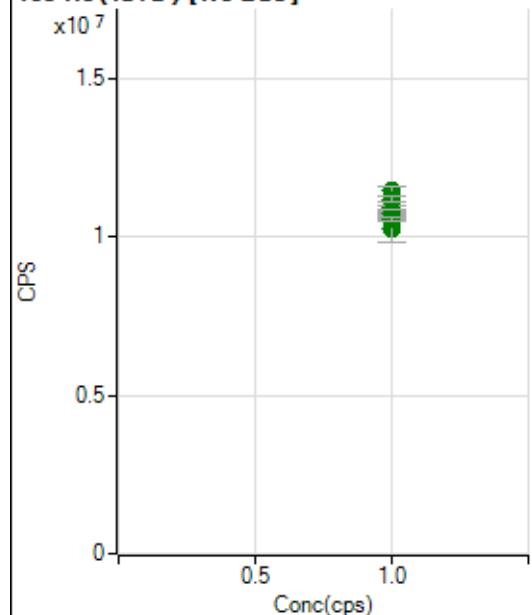
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1363439.54		P	0.5
2	☐	1.000		1392983.75		P	0.3
3	☐	1.000		1357869.09		P	1.5
4	☐	1.000		1281155.57		M	4.9
5	☐	1.000		1303002.16		P	1.0
6	☐	1.000		1237554.17		P	5.5
7	☐	1.000		1314945.78		P	2.4
8	☐	1.000		1352751.36		P	0.9

159 Tb (ISTD) [No Gas]

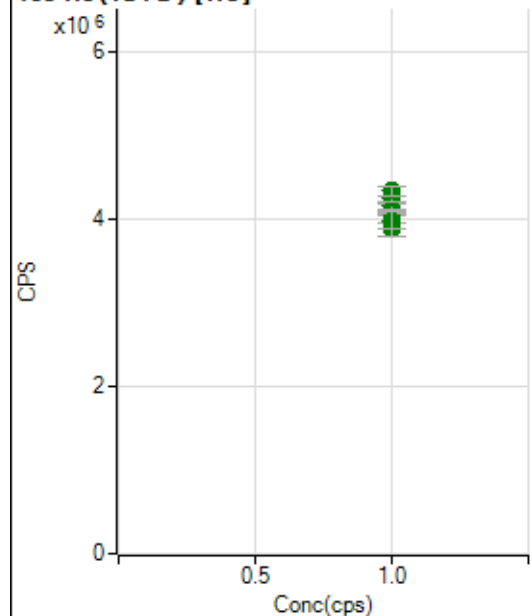
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10536806.58		A	8.9
2	☐	1.000		11111720.95		A	3.9
3	☐	1.000		11196127.19		A	1.6
4	☐	1.000		11151545.67		A	0.4
5	☐	1.000		11011943.86		A	2.2
6	☐	1.000		11138266.64		A	0.9
7	☐	1.000		11833465.38		A	0.5
8	☐	1.000		11612563.58		A	1.9

159 Tb (ISTD) [He]

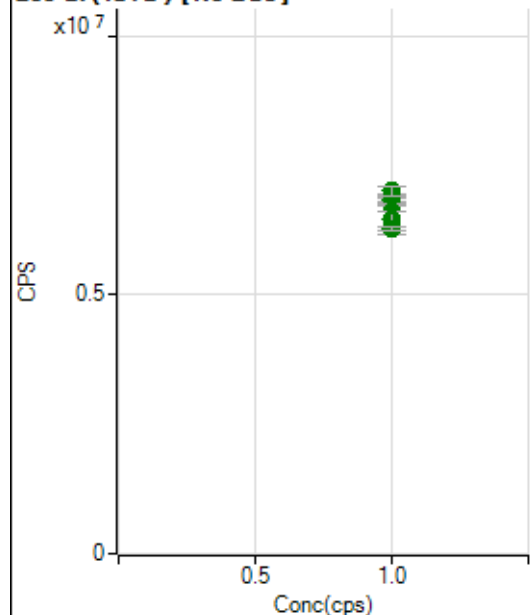
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4078407.79		A	0.5
2	☐	1.000		4107441.29		A	2.1
3	☐	1.000		4198288.69		A	0.5
4	☐	1.000		3937534.98		A	5.3
5	☐	1.000		4109844.00		A	1.4
6	☐	1.000		4026995.53		A	5.1
7	☐	1.000		4334739.31		A	2.7
8	☐	1.000		4433038.20		A	1.2

165 Ho (ISTD) [No Gas]

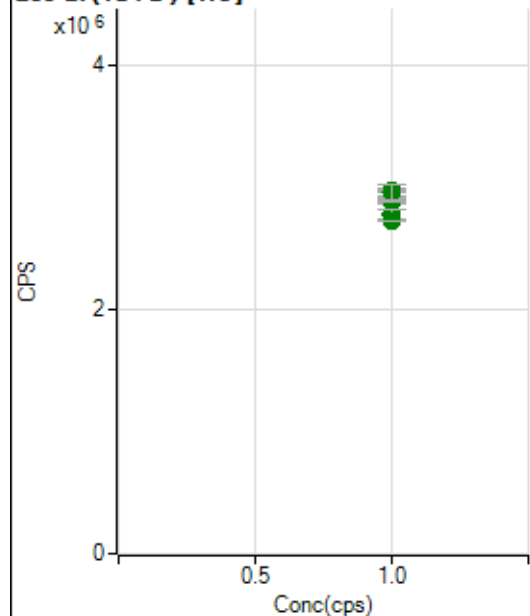
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10244050.32		A	8.1
2	☐	1.000		10652985.48		A	1.9
3	☐	1.000		10727085.40		A	0.6
4	☐	1.000		10731209.27		A	1.4
5	☐	1.000		10546593.12		A	1.0
6	☐	1.000		10948039.91		A	1.0
7	☐	1.000		11459424.56		A	2.8
8	☐	1.000		11205001.47		A	1.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4068691.99		A	1.0
2	☐	1.000		4080723.10		A	0.4
3	☐	1.000		4085248.72		A	0.9
4	☐	1.000		3877036.71		A	4.5
5	☐	1.000		4149616.12		A	1.7
6	☐	1.000		3986942.75		A	4.9
7	☐	1.000		4245797.78		A	1.6
8	☐	1.000		4337244.48		A	2.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6452548.79		A	8.5
2	☐	1.000		6729926.01		A	4.0
3	☐	1.000		7003961.08		A	2.2
4	☐	1.000		6749281.71		A	0.9
5	☐	1.000		6816599.83		A	1.5
6	☐	1.000		6906036.01		A	0.3
7	☐	1.000		6999341.98		A	3.0
8	☐	1.000		6260646.92		A	1.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2891603.19		A	2.0
2	☐	1.000		2976031.83		A	1.2
3	☐	1.000		2899157.46		A	1.2
4	☐	1.000		2784671.14		A	3.0
5	☐	1.000		2958928.91		A	1.3
6	☐	1.000		2778898.33		A	3.5
7	☐	1.000		2964566.45		A	4.0
8	☐	1.000		2726917.15		A	0.4

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8051522-MS1.b

Acq. Date-Time 2022-05-15 18:24:11

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		9863	98625.04			1.354	5.000
24		69564	695641.42			1.581	5.000
25		9171	91707.43			0.706	5.000
26		10884	108839.93			0.586	5.000
59		18096	180955.09			0.693	5.000
113		9865	98648.25			1.616	5.000
115		32097	320968.71			4.116	5.000
206		13147	131465.95			0.905	5.000
207		10957	109574.24			1.332	5.000
208		26918	269175.34			1.255	5.000
220		0	2.50			40.000	

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

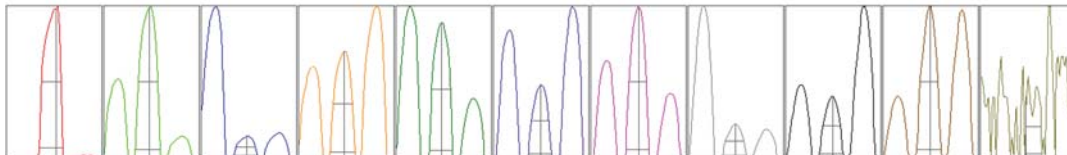
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	9927	9921	10000	9660	9804
24	67966	70018	70630	68918	70289
25	9192	9215	9214	9059	9174
26	10889	10823	10975	10824	10909
59	18018	18098	18310	18000	18052
113	9837	9888	10115	9681	9802
115	33292	32841	32989	30994	30368
206	13056	13139	13333	13033	13173
207	10829	10948	11166	10816	11029
208	26607	26930	27474	26699	26878

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	17045.88	9.10	8.90 - 9.10	
24	118765.18	23.95	23.90 - 24.10	
25	15937.12	24.95	24.90 - 25.10	
26	18736.13	25.95	25.90 - 26.10	
59	32666.26	58.95	58.90 - 59.10	
113	19332.37	113.00	112.90 - 113.10	
115	62404.75	115.05	114.90 - 115.10	
206	25210.55	206.00	205.90 - 206.10	
207	21165.25	207.00	206.90 - 207.10	
208	52106.94	208.00	207.90 - 208.10	
220	0.30	219.95	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.738	0.900	
24	0.62	0.785	0.900	
25	0.61	0.776	0.900	
26	0.62	0.785	0.900	
59	0.59	0.736	0.900	
113	0.54	0.728	0.900	
115	0.53	0.729	0.900	
206	0.56	0.756	0.900	
207	0.55	0.752	0.900	
208	0.55	0.776	0.900	
220	0.50	0.545		

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	10.8 V	Deflect	16.0 V
Extract 2	-145.0 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	180 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9995	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.4 mm	Torch V	-0.1 mm
---------	--------	---------	---------

EM

Discriminator	4.3 mV	Analog HV	2329 V	Pulse HV	1709 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		3555	35548.77			3.282	
89		14905	149054.11			3.383	
205		24185	241851.23			3.369	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	3605	3683	3429	3433	3624
89	15153	15526	14272	14522	15054
205	24454	25063	23323	23325	24760

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	10.8 V	Deflect	3.6 V
-----------	--------	------------	--------	---------	-------

US EPA Tune Check Report

Extract 2	-145.0 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	190 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9995	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.4 mm	Torch V	-0.1 mm
---------	--------	---------	---------

EM

Discriminator	4.3 mV	Analog HV	2329 V	Pulse HV	1709 V
---------------	--------	-----------	--------	----------	--------