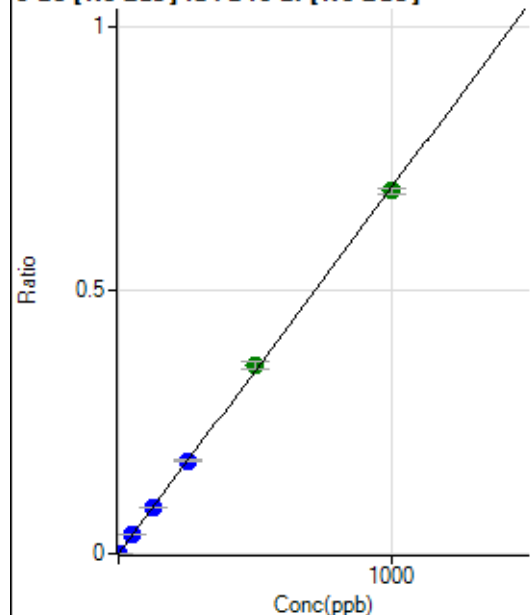


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8031423 MS.b\
Analysis File: P8031423 MS.batch.bin
DA Date-Time: 2023-03-14 16:13:45
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-03-14 11:46:03
2	006CALB.d	S02	2023-03-14 11:52:09
3	007CALS.d	S03	2023-03-14 11:55:11
4	008CALS.d	S04	2023-03-14 11:58:12
5	009CALS.d	S05	2023-03-14 12:01:10
6	010CALS.d	S06	2023-03-14 12:04:11
7	011CALS.d	S07	2023-03-14 12:07:09
8	012CALS.d	S08	2023-03-14 12:10:10

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33.33	0.0000	P	22.7
2	☐	1.000	1.099	2528.24	0.0008	P	9.7
3	☐	50.000	52.927	123210.93	0.0368	P	2.1
4	☐	125.000	127.852	297179.01	0.0888	P	1.3
5	☐	250.000	252.236	585839.54	0.1752	P	2.1
6	☐	500.000	515.697	1146435.84	0.3582	A	4.2
7	☐	1000.000	991.090	2182093.99	0.6884	A	1.8
8	☐			618.69	0.0002	P	31.3

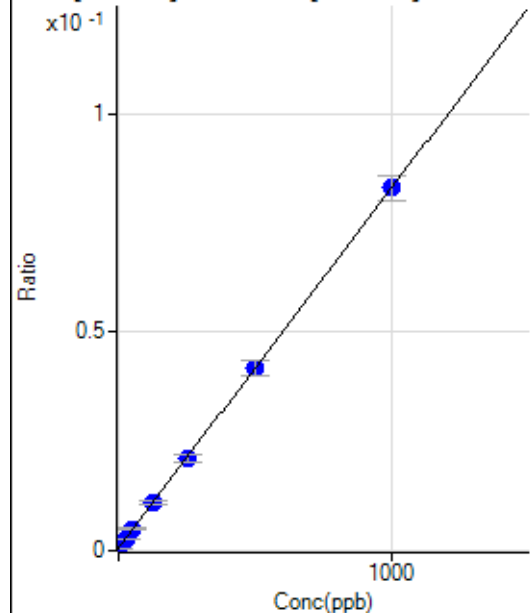
$$y = 6.9463\text{E-}004 * x + 1.0158\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.009965$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2003.08	0.0006	P	2.7
2	☐	25.000	25.359	8832.93	0.0027	P	4.9
3	☐	50.000	52.183	16421.32	0.0049	P	7.9
4	☐	125.000	125.107	36508.25	0.0109	P	8.5
5	☐	250.000	246.751	69968.87	0.0209	P	8.1
6	☐	500.000	501.222	133923.80	0.0419	P	8.7
7	☐	1000.000	1000.070	262833.03	0.0830	P	7.1
8	☐			28796.57	0.0103	P	14.1

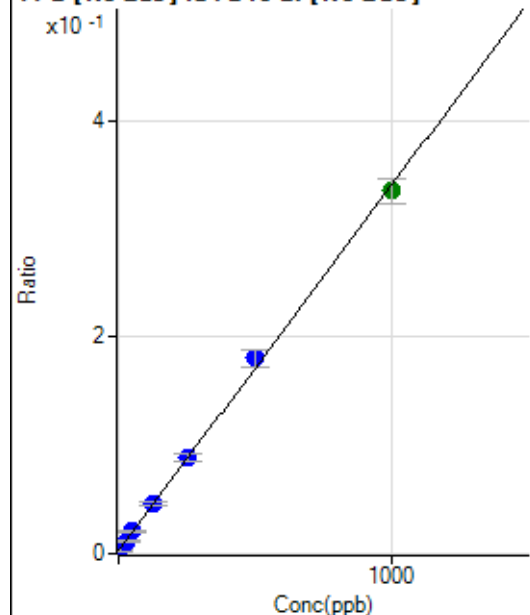
$$y = 8.2353\text{E-}005 * x + 6.0659\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.6055$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8783.57	0.0027	P	6.2
2	☐	25.000	26.129	37601.87	0.0115	P	4.9
3	☐	50.000	53.222	68991.30	0.0206	P	8.8
4	☐	125.000	126.685	151842.74	0.0454	P	7.6
5	☐	250.000	255.019	296393.17	0.0886	P	6.5
6	☐	500.000	527.150	576743.84	0.1804	P	9.1
7	☐	1000.000	984.770	1060398.48	0.3347	A	6.7
8	☐			123080.32	0.0439	P	14.8

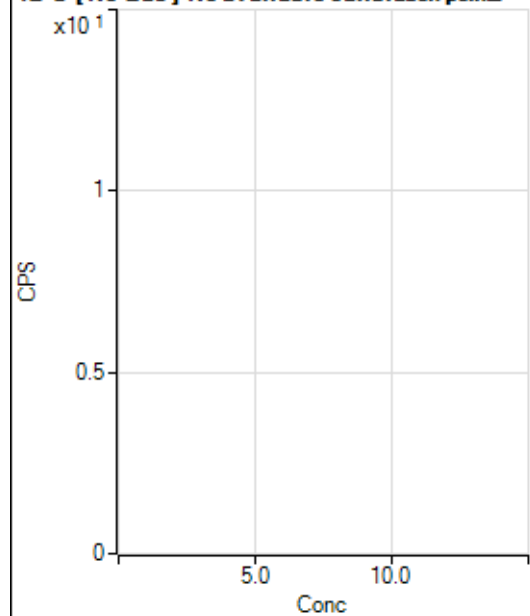
$$y = 3.3715E-004 * x + 0.0027$$

$$R = 0.9994$$

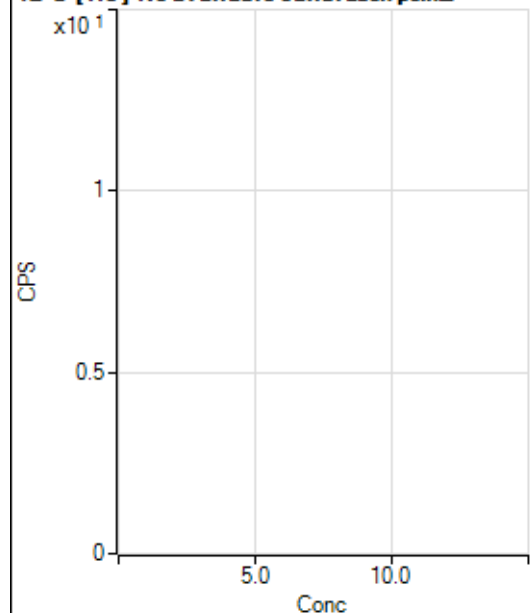
$$DL = 1.463$$

Weight: <None>

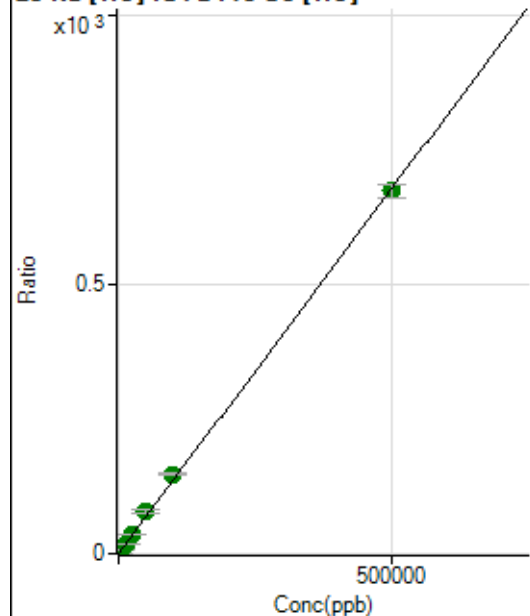
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4320532.95		A	3.1
2	☐			4199687.38		A	2.1
3	☐			4404302.44		A	3.6
4	☐			4397591.72		A	2.9
5	☐			4430936.77		A	3.7
6	☐			4374349.36		A	2.9
7	☐			4791561.87		A	4.3
8	☐			4072827.87		A	2.0

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			64826.55		P	2.4
2	☐			63440.08		P	1.8
3	☐			65945.45		P	0.9
4	☐			65289.66		P	0.7
5	☐			66847.04		P	1.3
6	☐			68576.51		P	0.6
7	☐			77010.23		P	1.8
8	☐			66037.85		P	0.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11913.47	0.0663	P	1.5
2	☐	500.000	516.621	135574.22	0.7672	P	0.2
3	☐	5000.000	5595.302	1344616.22	7.6580	A	2.7
4	☐	12500.000	13098.514	3202419.30	17.8383	A	4.9
5	☐	25000.000	27012.285	6357388.03	36.7165	A	2.3
6	☐	50000.000	57827.352	12505201.41	78.5263	A	12.3
7	☐	100000.00	108785.74	25583141.37	147.6665	A	1.6
8	☐	500000.00	497338.57	122834384.6	674.8539	A	4.0

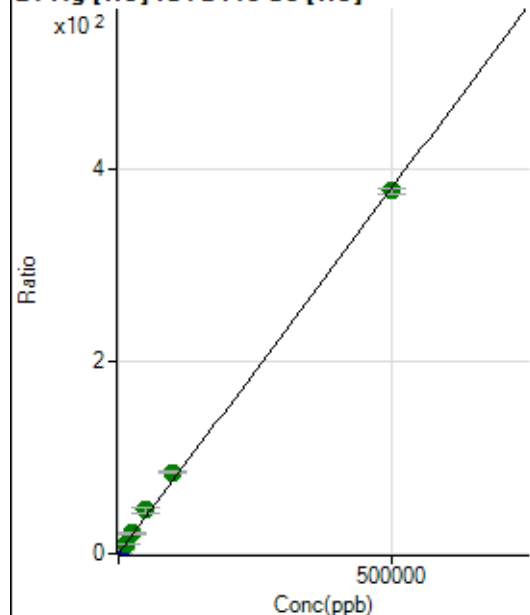
$$y = 0.0014 * x + 0.0663$$

$$R = 0.9997$$

$$DL = 2.197$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	172.23	0.0010	P	14.3
2	☐	500.000	517.294	69712.12	0.3945	P	1.7
3	☐	5000.000	5663.252	756593.67	4.3092	P	1.7
4	☐	12500.000	13739.244	1877046.90	10.4528	A	4.2
5	☐	25000.000	28152.311	3707884.02	21.4173	A	3.9
6	☐	50000.000	59703.618	7227042.09	45.4193	A	13.2
7	☐	100000.00	111217.55	14657332.10	84.6075	A	3.2
8	☐	500000.00	496590.88	68781436.26	377.7724	A	1.3

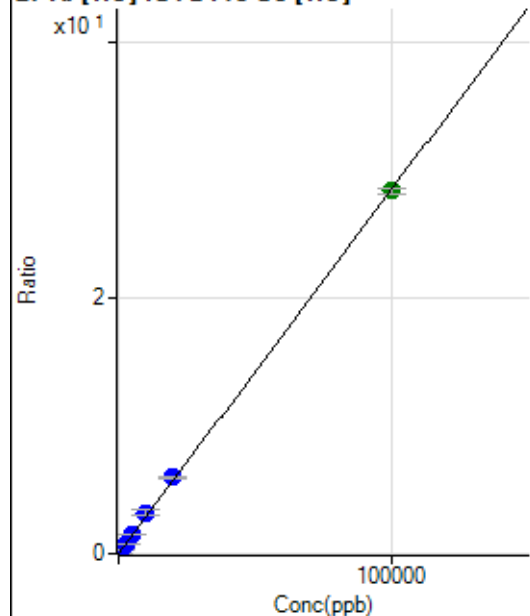
$$y = 7.6073E-004 * x + 9.6025E-004$$

$$R = 0.9996$$

$$DL = 0.5417$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	63.74	0.0004	P	8.8
2	☐	20.000	22.293	1184.48	0.0067	P	2.3
3	☐	1000.000	1090.589	54598.55	0.3109	P	0.7
4	☐	2500.000	2556.367	130742.47	0.7283	P	5.6
5	☐	5000.000	5280.395	260410.47	1.5041	P	3.0
6	☐	10000.000	11297.473	512003.47	3.2176	P	13.1
7	☐	20000.000	21074.426	1039817.37	6.0019	P	2.5
8	☐	100000.00	99639.032	5166223.71	28.3752	A	1.5

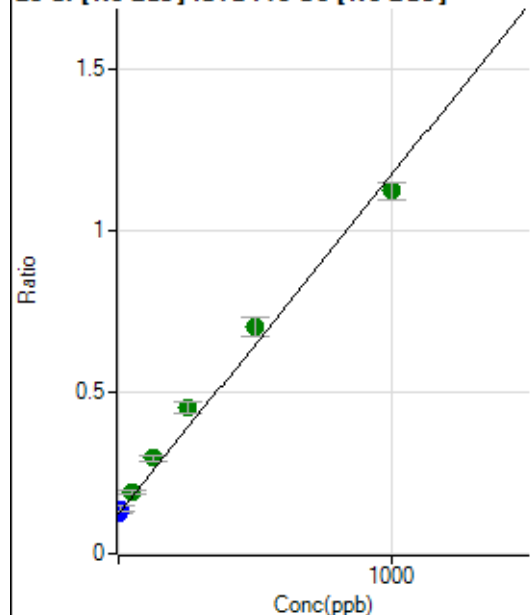
$$y = 2.8478E-004 * x + 3.5499E-004$$

$$R = 0.9999$$

$$DL = 0.3277$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	655278.51	0.1233	P	1.8
2	☐	10.000	15.385	714365.34	0.1394	P	10.5
3	☐	50.000	65.084	1040432.07	0.1917	A	7.8
4	☐	125.000	163.898	1575006.28	0.2955	A	6.8
5	☐	250.000	314.577	2391325.77	0.4539	A	7.6
6	☐	500.000	551.412	3728422.05	0.7029	A	8.5
7	☐	1000.000	952.479	6082809.55	1.1244	A	4.9
8	☐			1118282.44	0.2332	A	19.2

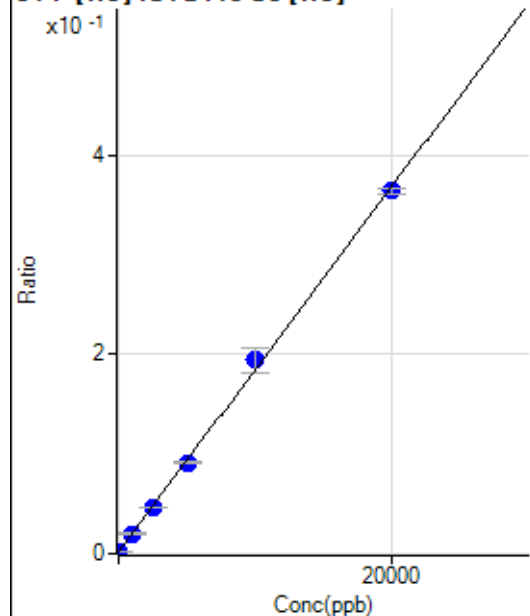
$$y = 0.0011 * x + 0.1233$$

$$R = 0.9953$$

$$DL = 6.221$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-10.496	258.35	0.0014	P	13.7
2	☐	0.000	10.496	322.23	0.0018	P	18.1
3	☐	1000.000	1008.011	3531.08	0.0201	P	5.8
4	☐	2500.000	2431.874	8299.81	0.0462	P	3.0
5	☐	5000.000	4903.641	15842.38	0.0915	P	3.1
6	☐	10000.000	10500.576	30908.61	0.1941	P	12.5
7	☐	20000.000	19781.917	63102.22	0.3642	P	1.4
8	☐			300.01	0.0016	P	13.3

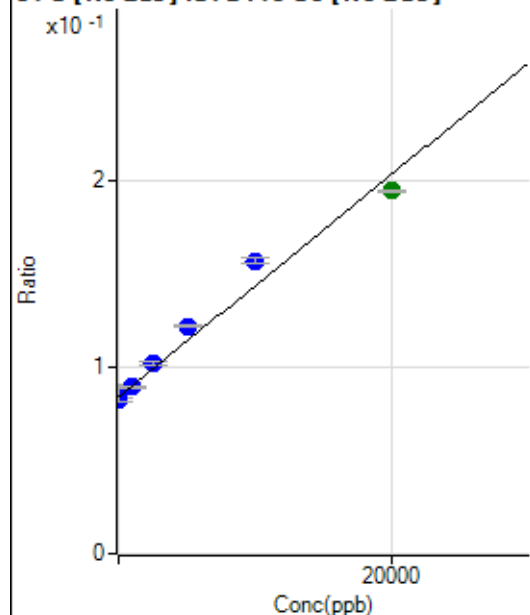
$$y = 1.8328E-005 * x + 0.0016$$

$$R = 0.9995$$

$$DL = 43.16$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-306.522	438316.42	0.0825	P	1.9
2	☐	0.000	306.522	441255.61	0.0861	P	10.4
3	☐	1000.000	856.370	485672.33	0.0894	P	1.9
4	☐	2500.000	3014.559	545226.61	0.1023	P	1.1
5	☐	5000.000	6315.815	643072.62	0.1221	P	0.9
6	☐	10000.000	12210.664	834856.13	0.1573	P	2.1
7	☐	20000.000	18508.576	1054536.20	0.1950	A	0.5
8	☐			394497.41	0.0823	P	19.0

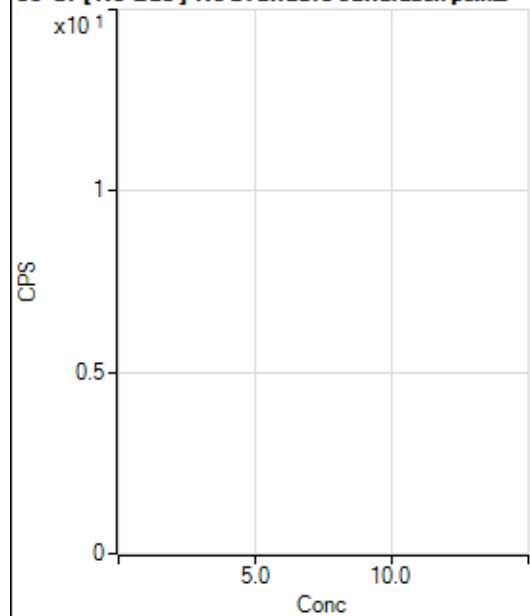
$$y = 5.9803\text{E-}006 * x + 0.0843$$

R = 0.9868

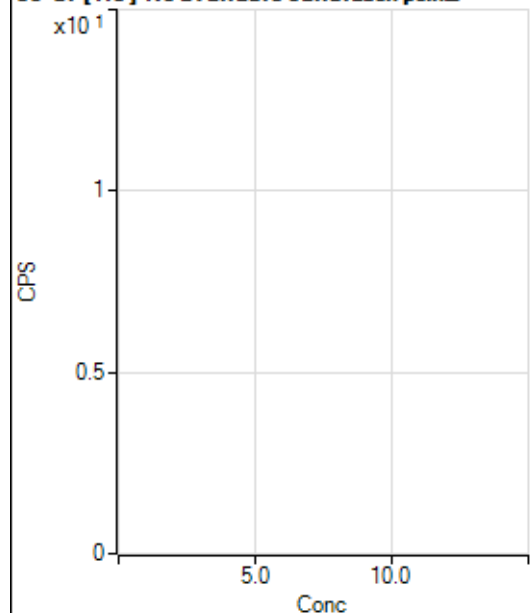
DL = 2637

Weight: <None>

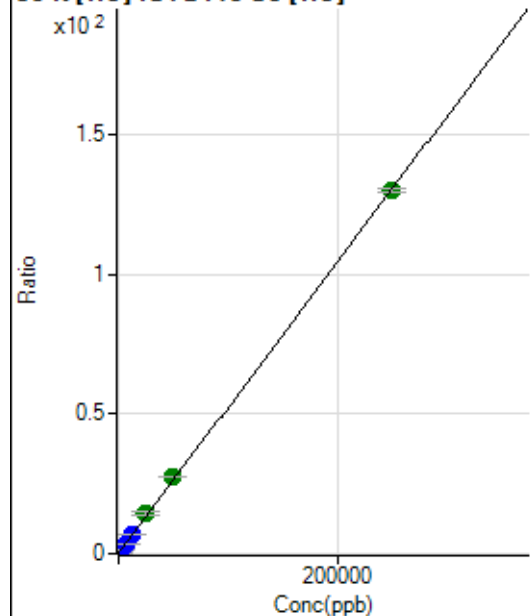
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			473978.89		P	0.6
2	☐			437315.44		P	1.0
3	☐			442474.98		P	0.9
4	☐			426402.26		P	1.1
5	☐			418549.98		P	0.6
6	☐			407826.12		P	0.9
7	☐			408941.16		P	0.4
8	☐			463585.25		P	1.7

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3100.42		P	1.0
2	☐			3094.86		P	2.7
3	☐			2986.50		P	4.1
4	☐			2983.73		P	9.4
5	☐			2605.86		P	6.2
6	☐			2611.42		P	3.1
7	☐			2605.86		P	5.1
8	☐			3269.90		P	0.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	21508.12	0.1197	P	2.5
2	☐	500.000	486.615	65920.56	0.3730	P	0.7
3	☐	2500.000	2610.762	259699.99	1.4789	P	1.6
4	☐	6250.000	6268.622	607279.30	3.3832	P	5.6
5	☐	12500.000	12923.846	1185722.18	6.8479	P	1.9
6	☐	25000.000	27800.591	2325839.96	14.5929	A	11.4
7	☐	50000.000	52434.996	4750058.22	27.4177	A	1.4
8	☐	250000.00	249210.20	23645063.72	129.8603	A	1.1

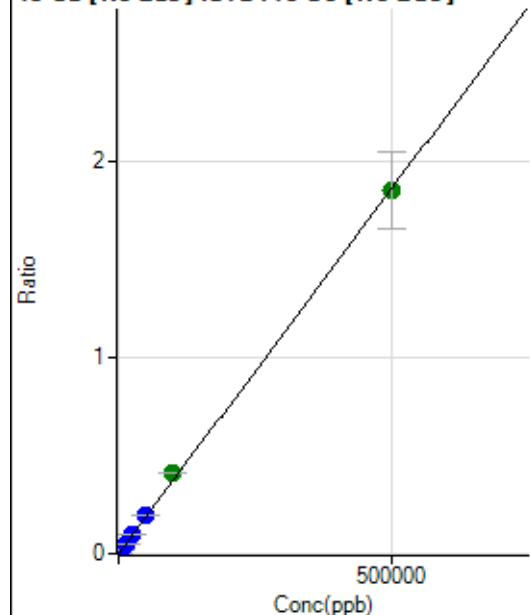
$$y = 5.2061\text{E-}004 * x + 0.1197$$

$$R = 0.9999$$

$$DL = 17.03$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	129.57	0.0000	P	7.4
2	☐	500.000	488.980	9435.68	0.0018	P	9.7
3	☐	5000.000	5530.130	111704.51	0.0206	P	2.7
4	☐	12500.000	13543.446	268228.91	0.0503	P	0.7
5	☐	25000.000	27193.900	532364.75	0.1010	P	0.8
6	☐	50000.000	53386.125	1052651.29	0.1983	P	1.8
7	☐	100000.00	110696.62	2224194.48	0.4112	A	1.4
8	☐	500000.00	497380.99	8836777.60	1.8477	A	21.2

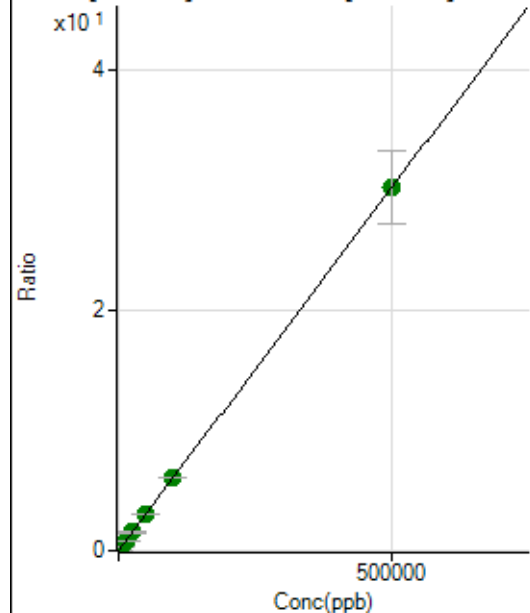
$$y = 3.7149\text{E-}006 * x + 2.4379\text{E-}005$$

$$R = 0.9997$$

$$DL = 1.466$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8301.37	0.0016	P	1.7
2	☐	500.000	492.900	160166.30	0.0313	P	11.3
3	☐	5000.000	5268.499	1733391.45	0.3192	A	3.8
4	☐	12500.000	12725.559	4096838.37	0.7688	A	1.5
5	☐	25000.000	25371.786	8067968.86	1.5313	A	1.8
6	☐	50000.000	49668.645	15904284.28	2.9963	A	1.4
7	☐	100000.00	99812.253	32557174.57	6.0196	A	0.7
8	☐	500000.00	500043.77	144389001.6	30.1509	A	20.0

$$y = 6.0293\text{E-}005 * x + 0.0016$$

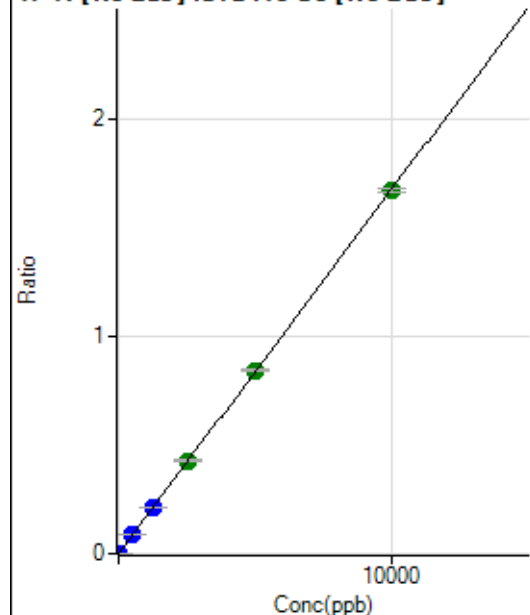
$$R = 1.0000$$

$$DL = 1.337$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	100.00	0.0000	P	23.1
2	☐	5.000	5.416	4756.48	0.0009	P	9.6
3	☐	500.000	523.968	477748.52	0.0880	P	2.5
4	☐	1250.000	1287.041	1151240.95	0.2160	P	0.8
5	☐	2500.000	2560.388	2264233.90	0.4298	A	1.3
6	☐	5000.000	5037.227	4488679.75	0.8455	A	0.5
7	☐	10000.000	9960.461	9041839.96	1.6718	A	1.0
8	☐			1916.87	0.0004	P	38.9

$$y = 1.6785E-004 * x + 1.8847E-005$$

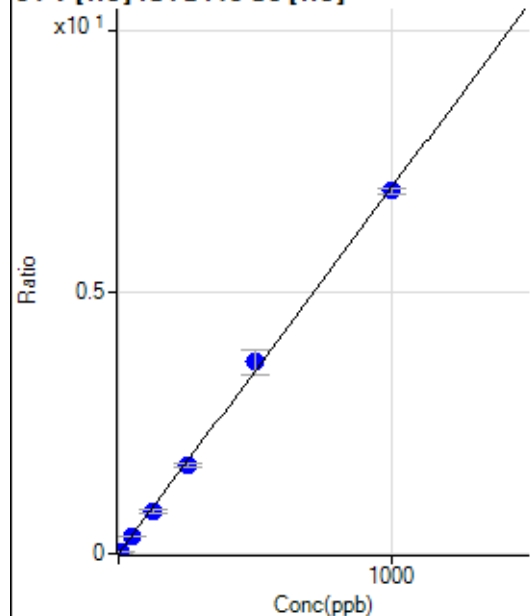
$$R = 1.0000$$

$$DL = 0.07775$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6.66	0.0000	P	84.7
2	☐	5.000	4.621	5714.53	0.0323	P	2.2
3	☐	50.000	49.159	60343.50	0.3436	P	1.7
4	☐	125.000	115.878	145373.81	0.8099	P	5.8
5	☐	250.000	243.272	294358.97	1.7003	P	4.1
6	☐	500.000	522.943	581199.83	3.6550	P	14.0
7	☐	1000.000	991.395	1200499.76	6.9291	P	1.9
8	☐			208.89	0.0011	P	6.5

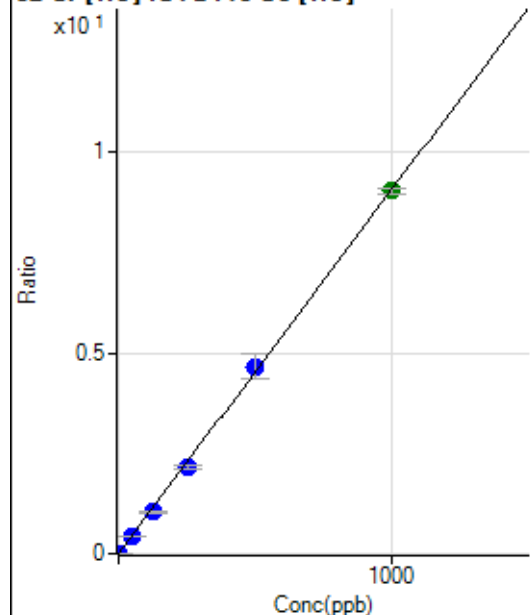
$$y = 0.0070 * x + 3.6668E-005$$

$$R = 0.9995$$

$$DL = 0.01333$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	484.46	0.0027	P	1.7
2	☐	2.000	1.881	3486.02	0.0197	P	5.2
3	☐	50.000	48.276	77233.07	0.4399	P	2.6
4	☐	125.000	114.753	187038.40	1.0419	P	5.1
5	☐	250.000	238.484	374363.15	2.1623	P	3.4
6	☐	500.000	513.667	740492.93	4.6543	P	13.2
7	☐	1000.000	997.413	1565145.43	9.0349	A	1.6
8	☐			10966.51	0.0602	P	3.6

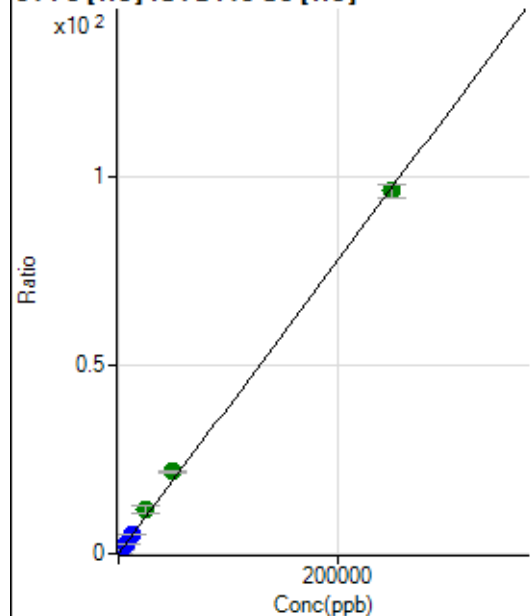
$$y = 0.0091 * x + 0.0027$$

$$R = 0.9998$$

$$DL = 0.01535$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	644.47	0.0036	P	1.9
2	☐	50.000	54.086	4337.77	0.0245	P	2.7
3	☐	2500.000	2766.555	188894.55	1.0758	P	2.2
4	☐	6250.000	6592.738	459357.38	2.5587	P	5.3
5	☐	12500.000	13599.106	913186.91	5.2742	P	2.5
6	☐	25000.000	30277.401	1866255.03	11.7382	A	14.0
7	☐	50000.000	56114.824	3768102.40	21.7520	A	1.7
8	☐	250000.00	248183.10	17510097.96	96.1919	A	3.4

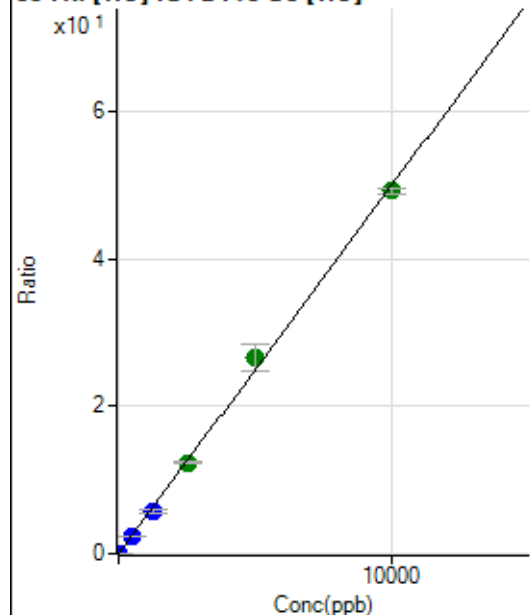
$$y = 3.8757E-004 * x + 0.0036$$

$$R = 0.9995$$

$$DL = 0.5374$$

Weight: <None>

Min Conc: 0

⁵⁵Mn [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	60.00	0.0003	P	31.9
2	☐	1.000	0.917	868.92	0.0049	P	2.4
3	☐	500.000	483.052	423987.64	2.4145	P	1.5
4	☐	1250.000	1154.754	1035847.09	5.7716	P	6.0
5	☐	2500.000	2467.275	2135075.89	12.3313	A	2.5
6	☐	5000.000	5330.303	4238417.33	26.6402	A	13.3
7	☐	10000.000	9855.783	8532962.37	49.2578	A	1.8
8	☐			3853.89	0.0212	P	3.6

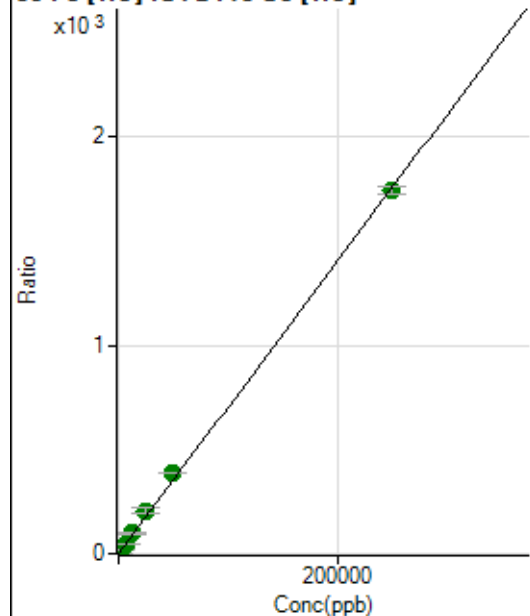
$$y = 0.0050 * x + 3.3306E-004$$

$$R = 0.9991$$

$$DL = 0.06387$$

Weight: <None>

Min Conc: 0

⁵⁶Fe [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	4548.94	0.0253	P	7.7
2	☐	50.000	52.151	69050.17	0.3908	P	1.6
3	☐	2500.000	2816.217	3469498.54	19.7588	A	2.6
4	☐	6250.000	6604.625	8311604.58	46.3045	A	5.9
5	☐	12500.000	13884.138	16847864.38	97.3127	A	3.8
6	☐	25000.000	29602.174	32989797.03	207.4503	A	14.2
7	☐	50000.000	55332.568	67176023.26	387.7453	A	1.1
8	☐	250000.00	248392.03	316878266.3	1,740.529	A	2.1

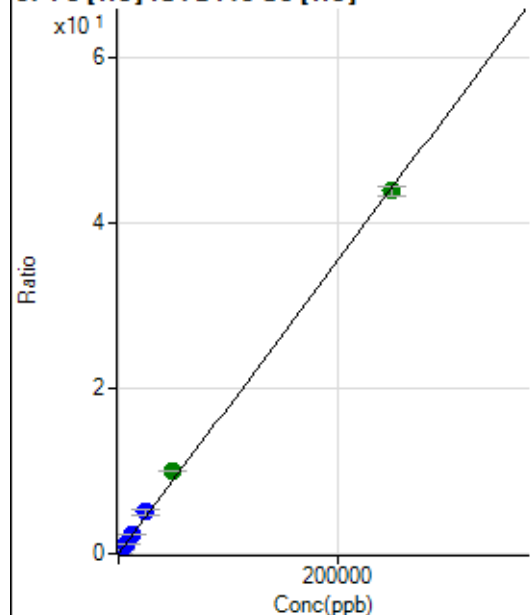
$$y = 0.0070 * x + 0.0253$$

$$R = 0.9996$$

$$DL = 0.833$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	203.71	0.0011	P	15.2
2	☐	50.000	53.833	1883.49	0.0107	P	3.6
3	☐	2500.000	2692.712	83845.79	0.4775	P	2.5
4	☐	6250.000	6437.554	204579.66	1.1399	P	5.8
5	☐	12500.000	13444.173	411961.76	2.3794	P	2.9
6	☐	25000.000	28681.655	807449.27	5.0749	P	13.4
7	☐	50000.000	56370.009	1727803.57	9.9729	A	0.7
8	☐	250000.00	248304.00	7997080.39	43.9258	A	2.4

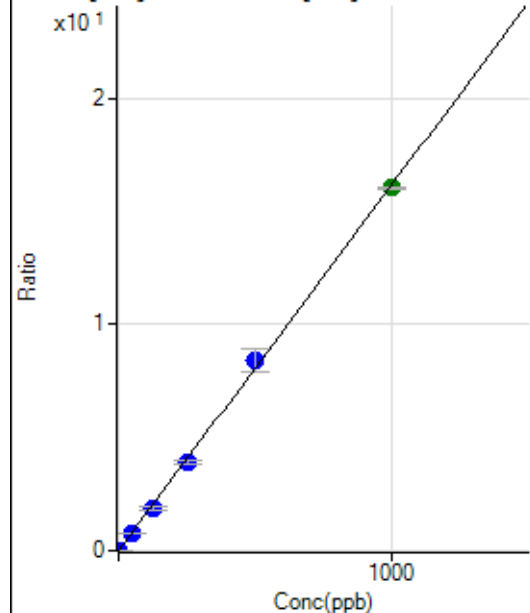
$$y = 1.7690\text{E-}004 * x + 0.0011$$

$$R = 0.9996$$

$$DL = 2.93$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	98.89	0.0006	P	21.2
2	☐	1.000	0.968	2856.98	0.0162	P	5.2
3	☐	50.000	49.008	139046.98	0.7918	P	1.4
4	☐	125.000	115.951	336142.67	1.8727	P	5.7
5	☐	250.000	241.781	675983.70	3.9043	P	3.0
6	☐	500.000	520.942	1338502.22	8.4115	P	13.0
7	☐	1000.000	992.764	2777138.85	16.0294	A	0.3
8	☐			2042.39	0.0112	P	3.9

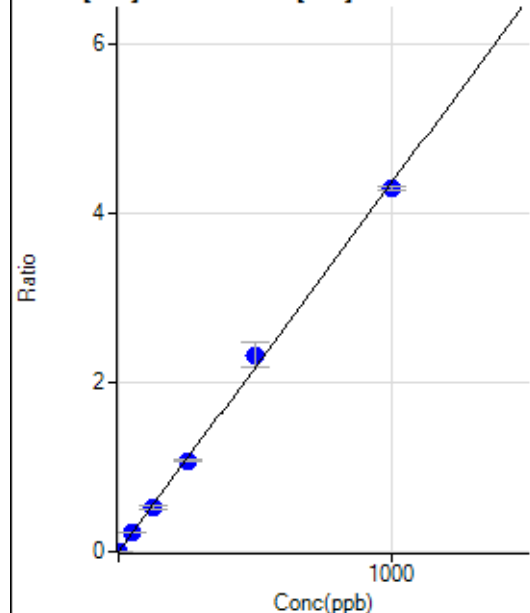
$$y = 0.0161 * x + 5.5167\text{E-}004$$

$$R = 0.9996$$

$$DL = 0.02178$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	28.89	0.0002	P	36.7
2	☐	1.000	0.994	794.48	0.0045	P	6.1
3	☐	50.000	50.943	39054.60	0.2224	P	1.8
4	☐	125.000	119.772	93842.99	0.5227	P	5.2
5	☐	250.000	247.243	186779.70	1.0788	P	3.1
6	☐	500.000	534.573	371325.10	2.3324	P	12.6
7	☐	1000.000	984.009	743791.55	4.2931	P	1.1
8	☐			1330.08	0.0073	P	5.4

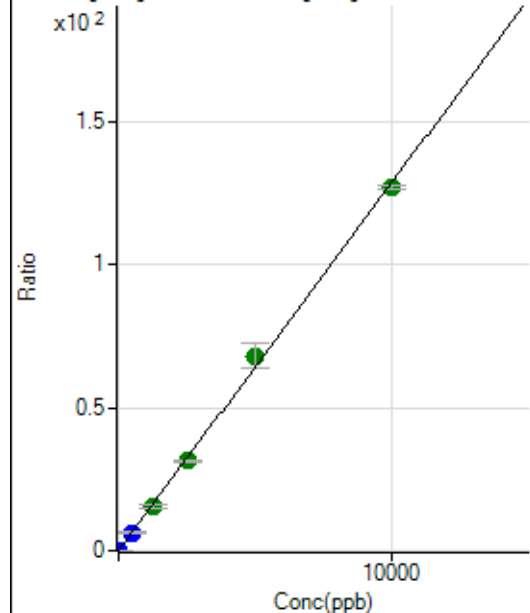
$$y = 0.0044 * x + 1.6062E-004$$

$$R = 0.9991$$

$$DL = 0.04048$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	591.13	0.0033	P	5.5
2	☐	2.000	1.903	4902.01	0.0277	P	2.3
3	☐	500.000	493.565	1114161.74	6.3454	P	2.3
4	☐	1250.000	1201.463	2771617.98	15.4415	A	6.0
5	☐	2500.000	2443.130	5435976.45	31.3964	A	2.7
6	☐	5000.000	5307.330	10858313.45	68.2001	A	12.3
7	☐	10000.000	9866.941	21966893.01	126.7890	A	1.1
8	☐			3899.46	0.0214	P	1.1

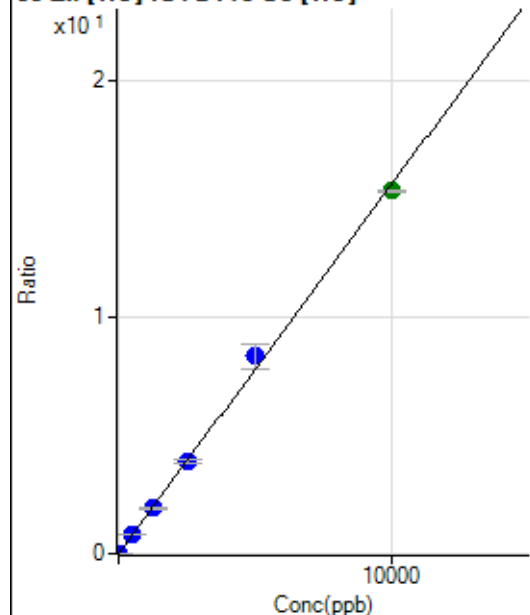
$$y = 0.0128 * x + 0.0033$$

$$R = 0.9993$$

$$DL = 0.04258$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	144.45	0.0008	P	19.7
2	☐	2.000	2.230	757.81	0.0043	P	0.9
3	☐	500.000	513.231	140935.46	0.8027	P	3.5
4	☐	1250.000	1230.551	345283.27	1.9234	P	5.9
5	☐	2500.000	2502.663	677131.03	3.9109	P	2.8
6	☐	5000.000	5343.915	1329208.90	8.3501	P	12.5
7	☐	10000.000	9829.146	2660809.53	15.3577	A	0.3
8	☐			1443.42	0.0079	P	2.3

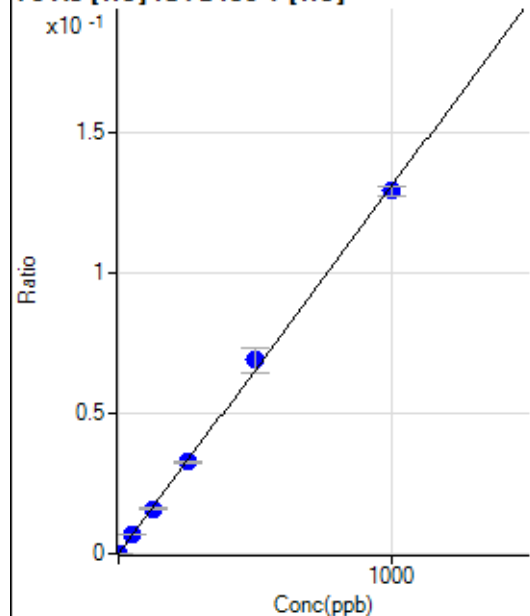
$$y = 0.0016 * x + 8.0537E-004$$

$$R = 0.9991$$

$$DL = 0.3041$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.67	0.0000	P	124.6
2	☐	1.000	0.976	148.02	0.0001	P	11.7
3	☐	50.000	51.794	7701.21	0.0068	P	1.6
4	☐	125.000	121.057	18598.08	0.0158	P	4.6
5	☐	250.000	248.863	37228.87	0.0325	P	3.2
6	☐	500.000	526.168	73599.35	0.0688	P	12.7
7	☐	1000.000	987.604	149539.02	0.1291	P	2.7
8	☐			28.33	0.0000	P	11.2

$$y = 1.3069E-004 * x + 1.4488E-006$$

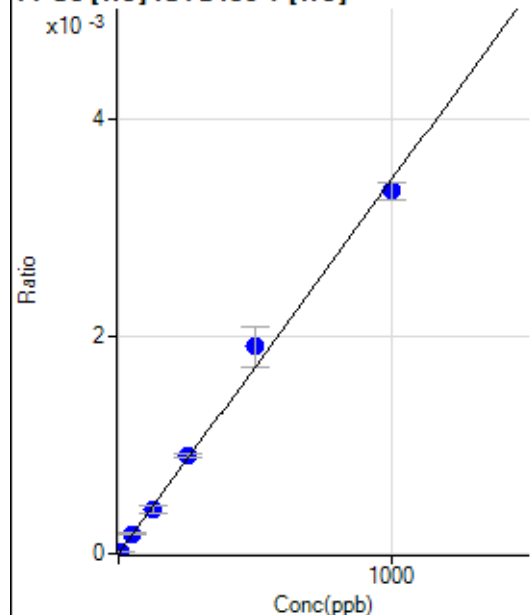
$$R = 0.9995$$

$$DL = 0.04142$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.531	17.78	0.0000	P	58.3
3	☐	50.000	54.034	211.12	0.0002	P	15.9
4	☐	125.000	117.472	477.79	0.0004	P	18.9
5	☐	250.000	262.252	1031.16	0.0009	P	5.4
6	☐	500.000	553.508	2023.50	0.0019	P	19.8
7	☐	1000.000	970.924	3863.90	0.0033	P	4.7
8	☐			5.55	0.0000	P	70.1

$$y = 3.4349\text{E-}006 * x + 0.0000\text{E+}000$$

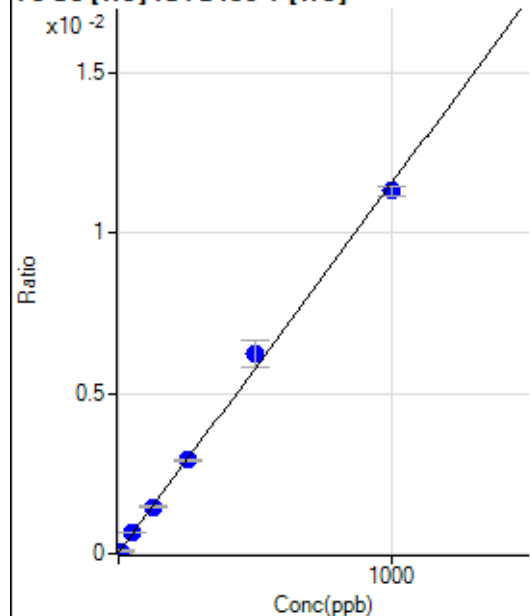
$$R = 0.9977$$

$$DL = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.00	0.0000	P	16.8
2	☐	5.000	4.945	101.01	0.0001	P	7.7
3	☐	50.000	53.830	740.76	0.0007	P	1.4
4	☐	125.000	122.944	1701.95	0.0014	P	5.1
5	☐	250.000	251.018	3346.74	0.0029	P	1.8
6	☐	500.000	539.201	6679.27	0.0062	P	13.5
7	☐	1000.000	980.210	13123.76	0.0113	P	2.5
8	☐			58.68	0.0000	P	9.2

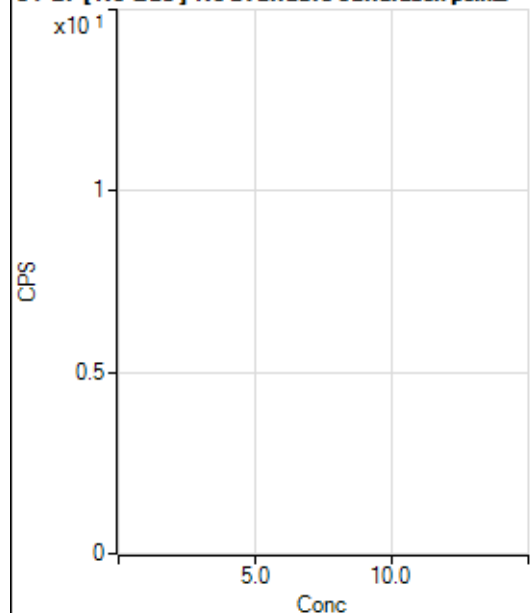
$$y = 1.1525\text{E-}005 * x + 3.0961\text{E-}005$$

$$R = 0.9988$$

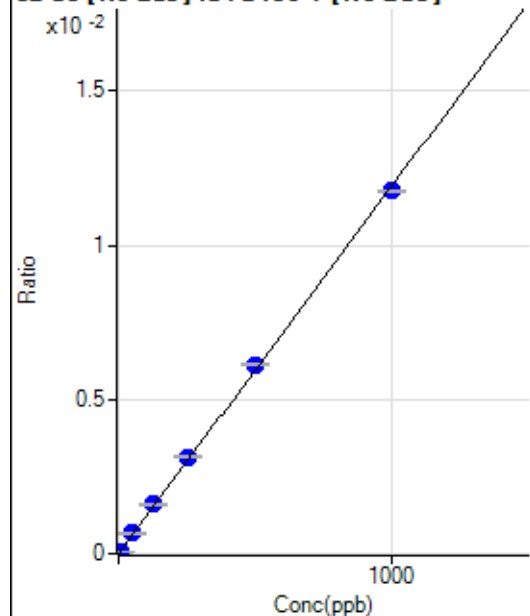
$$DL = 1.35$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			32277.58		P	1.8
2	☐			33677.69		P	3.0
3	☐			33262.72		P	1.2
4	☐			33067.84		P	1.5
5	☐			33098.51		P	2.6
6	☐			33633.42		P	2.6
7	☐			33803.06		P	1.5
8	☐			35638.28		P	4.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.08	0.0000	P	2023.
2	☐	5.000	5.563	692.87	0.0001	P	6.5
3	☐	50.000	55.099	7056.48	0.0007	P	2.0
4	☐	125.000	134.699	17186.26	0.0016	P	2.3
5	☐	250.000	263.149	33860.52	0.0031	P	1.7
6	☐	500.000	513.999	66816.78	0.0061	P	1.1
7	☐	1000.000	988.243	130529.76	0.0118	P	0.5
8	☐			81.66	0.0000	P	82.2

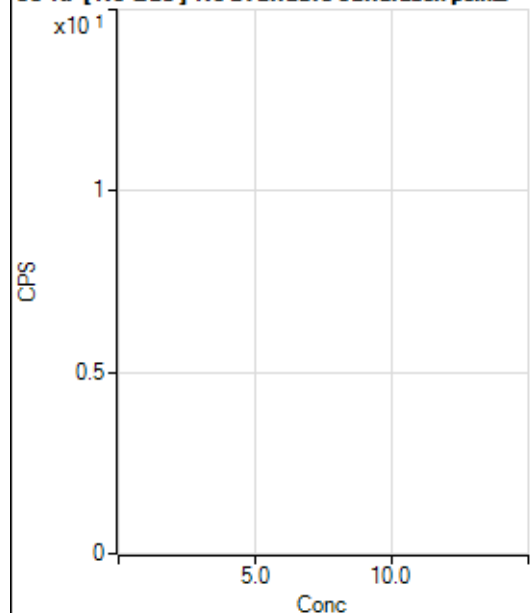
$$y = 1.1900E-005 * x + 1.7261E-007$$

$$R = 0.9997$$

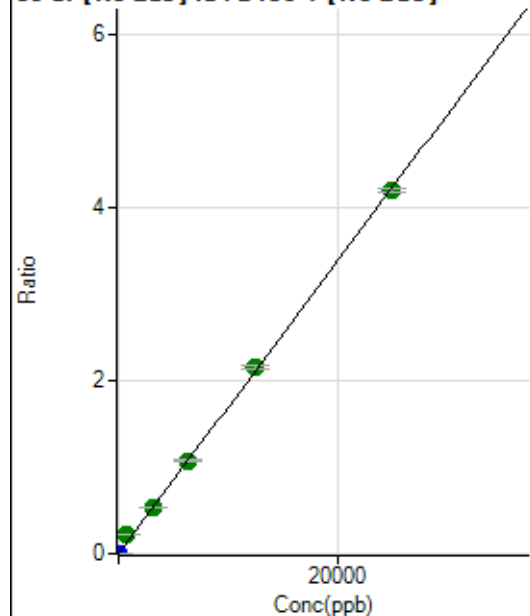
$$DL = 0.8804$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			308.30		P	3.3
2	☐			333.71		P	13.7
3	☐			307.88		P	5.6
4	☐			323.72		P	8.9
5	☐			334.96		P	7.2
6	☐			329.55		P	6.2
7	☐			331.63		P	5.9
8	☐			369.54		P	2.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	550.03	0.0001	P	10.6
2	☐	1.000	1.155	2544.76	0.0002	P	15.9
3	☐	625.000	1340.533	2430587.29	0.2259	A	0.6
4	☐	3125.000	3151.857	5693217.84	0.5311	A	2.7
5	☐	6250.000	6337.068	11544413.45	1.0677	A	2.3
6	☐	12500.000	12723.105	23414836.11	2.1436	A	2.1
7	☐	25000.000	24845.435	46461731.94	4.1860	A	1.0
8	☐			16177.12	0.0017	P	35.3

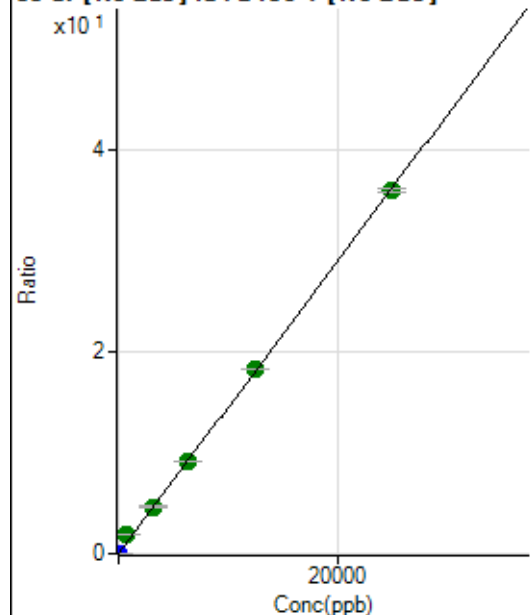
$$y = 1.6848E-004 * x + 5.0568E-005$$

$$R = 0.9996$$

$$DL = 0.09524$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	147.23	0.0000	P	23.1
2	☐	1.000	1.015	15467.30	0.0015	P	7.9
3	☐	625.000	1289.682	20085505.31	1.8668	A	1.6
4	☐	3125.000	3191.765	49518590.00	4.6201	A	3.5
5	☐	6250.000	6308.796	98749753.60	9.1319	A	0.4
6	☐	12500.000	12686.284	200607548.9	18.3633	A	0.3
7	☐	25000.000	24867.196	399523533.9	35.9951	A	1.0
8	☐			132945.58	0.0137	P	37.0

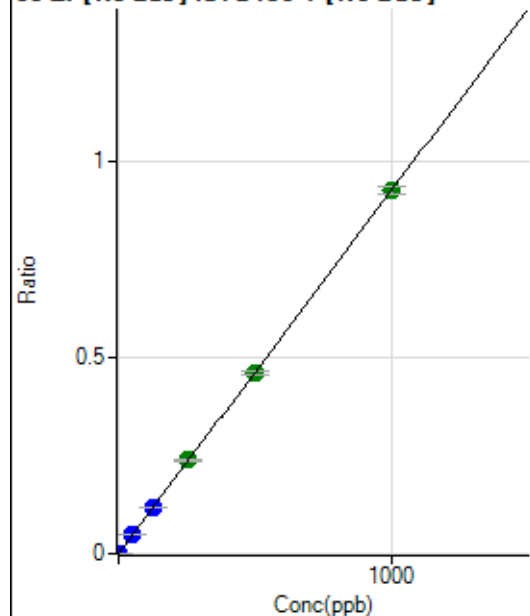
$$y = 0.0014 * x + 1.3523E-005$$

$$R = 0.9997$$

$$DL = 0.006466$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	697.26	0.0001	P	16.7
2	☐	1.000	1.020	10470.88	0.0010	P	14.0
3	☐	50.000	51.935	517313.34	0.0481	P	2.3
4	☐	125.000	127.427	1263963.28	0.1179	P	1.9
5	☐	250.000	256.821	2568276.10	0.2375	A	1.8
6	☐	500.000	498.450	5034701.29	0.4609	A	2.3
7	☐	1000.000	998.669	10249664.90	0.9235	A	2.2
8	☐			3420.00	0.0003	P	31.7

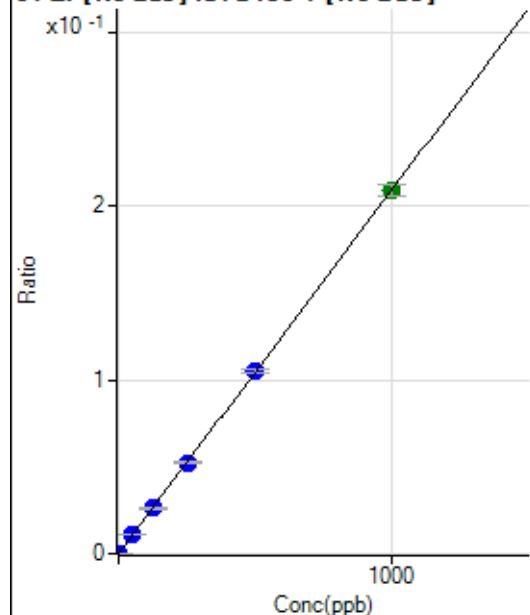
$$y = 9.2462E-004 * x + 6.4131E-005$$

$$R = 1.0000$$

$$DL = 0.03483$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	136.11	0.0000	P	12.0
2	☐	1.000	1.065	2439.17	0.0002	P	17.5
3	☐	50.000	51.323	115653.72	0.0108	P	2.7
4	☐	125.000	124.838	280171.78	0.0261	P	2.0
5	☐	250.000	250.325	566430.66	0.0524	P	1.3
6	☐	500.000	502.453	1148397.54	0.1051	P	1.9
7	☐	1000.000	998.646	2319283.28	0.2089	A	3.3
8	☐			808.38	0.0001	P	43.6

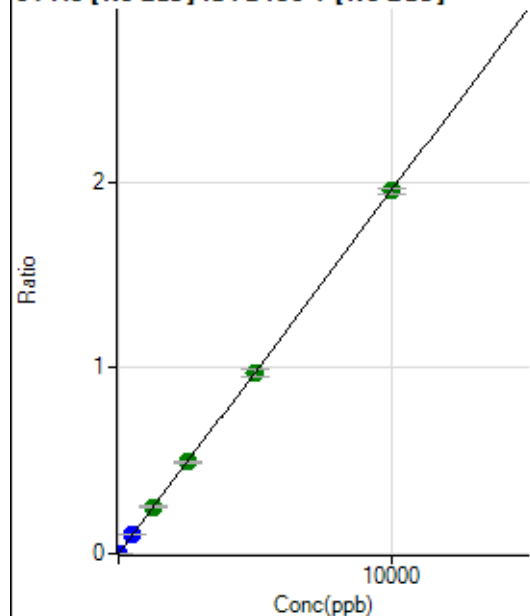
$$y = 2.0922\text{E-}004 * x + 1.2506\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.0215$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	197.23	0.0000	P	34.4
2	☐	5.000	5.916	12247.38	0.0012	P	9.0
3	☐	500.000	527.585	1109049.94	0.1031	P	2.1
4	☐	1250.000	1290.787	2704494.44	0.2522	A	1.2
5	☐	2500.000	2526.486	5337079.24	0.4936	A	1.4
6	☐	5000.000	4998.089	10663315.26	0.9764	A	4.4
7	☐	10000.000	9987.856	21656898.57	1.9512	A	1.4
8	☐			6907.65	0.0007	P	35.0

$$y = 1.9536\text{E-}004 * x + 1.8151\text{E-}005$$

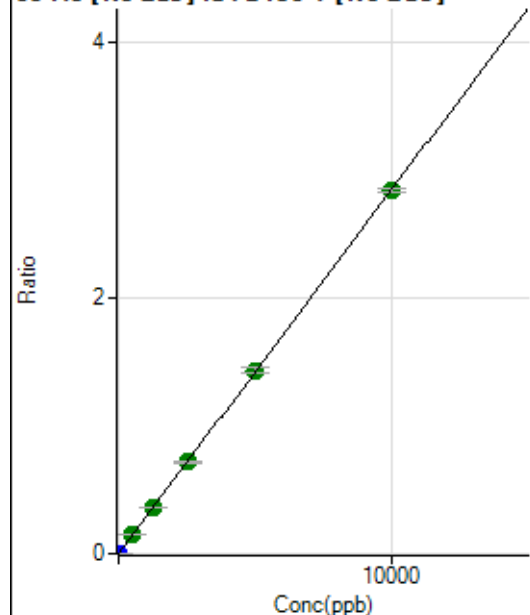
$$R = 1.0000$$

$$DL = 0.09592$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.45	0.0000	P	108.1
2	☐	5.000	4.957	14722.09	0.0014	P	9.3
3	☐	500.000	519.947	1592220.51	0.1480	A	1.3
4	☐	1250.000	1274.220	3888836.72	0.3627	A	1.5
5	☐	2500.000	2520.424	7756530.90	0.7174	A	1.4
6	☐	5000.000	5040.558	15669479.87	1.4346	A	3.1
7	☐	10000.000	9970.590	31497879.87	2.8378	A	1.0
8	☐			9673.42	0.0010	P	37.5

$$y = 2.8462E-004 * x + 1.7829E-006$$

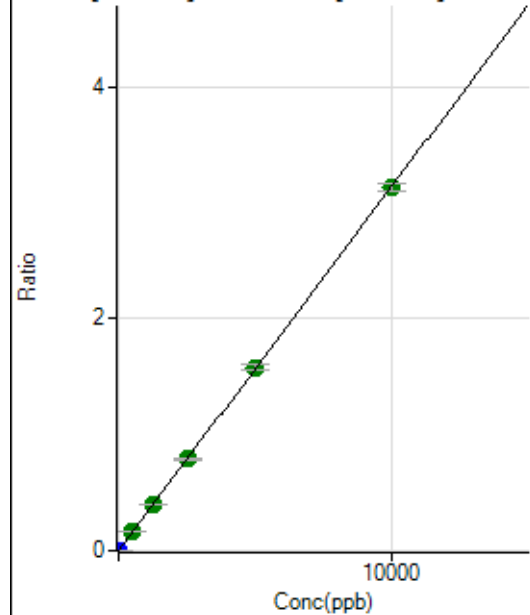
$$R = 1.0000$$

$$DL = 0.02032$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	133.34	0.0000	P	0.8
2	☐	5.000	5.297	17450.29	0.0017	P	9.6
3	☐	500.000	524.751	1771769.68	0.1647	A	1.6
4	☐	1250.000	1273.754	4284933.43	0.3997	A	2.6
5	☐	2500.000	2520.799	8553283.18	0.7910	A	1.1
6	☐	5000.000	5040.780	17277214.28	1.5818	A	2.5
7	☐	10000.000	9970.203	34726745.57	3.1286	A	2.0
8	☐			16646.96	0.0017	P	30.2

$$y = 3.1379E-004 * x + 1.2259E-005$$

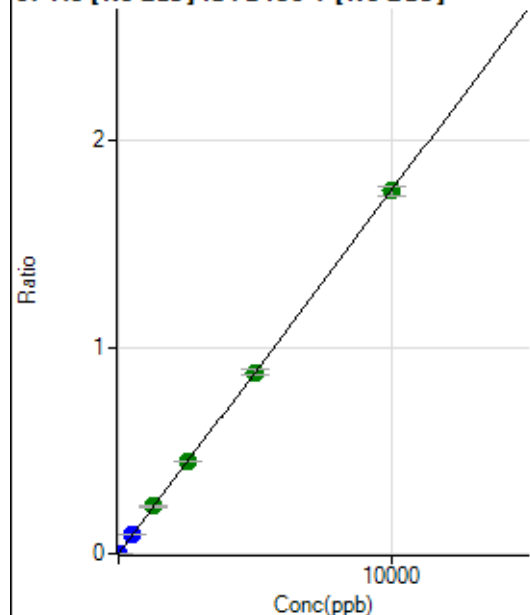
$$R = 1.0000$$

$$DL = 0.0009561$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11.11	0.0000	P	42.6
2	☐	5.000	5.078	9314.47	0.0009	P	10.0
3	☐	500.000	529.209	1001357.30	0.0931	P	1.2
4	☐	1250.000	1299.817	2451285.28	0.2286	A	1.6
5	☐	2500.000	2542.319	4834674.15	0.4471	A	1.0
6	☐	5000.000	4988.481	9581919.66	0.8773	A	3.4
7	☐	10000.000	9987.492	19495819.88	1.7565	A	2.8
8	☐			6151.66	0.0006	P	39.7

$$y = 1.7587E-004 * x + 1.0195E-006$$

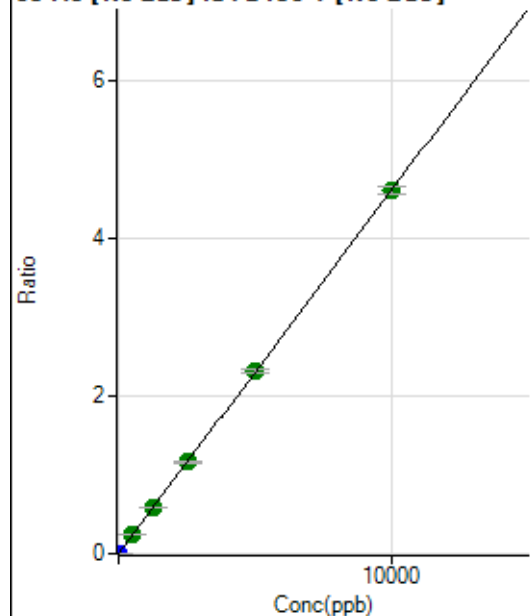
$$R = 1.0000$$

$$DL = 0.007406$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	44.45	0.0000	P	56.8
2	☐	5.000	5.002	24060.42	0.0023	P	8.8
3	☐	500.000	522.877	2591258.85	0.2408	A	1.1
4	☐	1250.000	1261.120	6228399.44	0.5809	A	2.0
5	☐	2500.000	2528.831	12594326.93	1.1648	A	1.3
6	☐	5000.000	5014.726	25228153.86	2.3097	A	2.4
7	☐	10000.000	9982.895	51034213.64	4.5980	A	2.2
8	☐			15537.71	0.0016	P	39.4

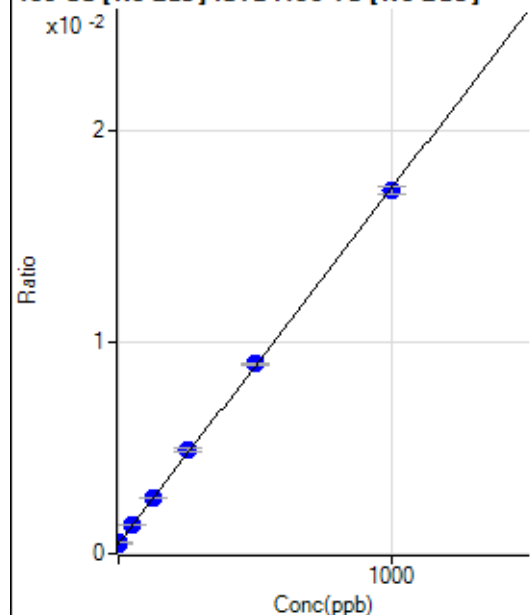
$$y = 4.6059E-004 * x + 4.0737E-006$$

$$R = 1.0000$$

$$DL = 0.01506$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4798.21	0.0005	P	3.8
2	☐	1.000	2.187	5045.51	0.0005	P	2.0
3	☐	50.000	55.047	14341.11	0.0014	P	1.6
4	☐	125.000	129.958	27369.49	0.0027	P	1.7
5	☐	250.000	264.931	50944.79	0.0049	P	3.4
6	☐	500.000	505.496	94392.73	0.0090	P	0.8
7	☐	1000.000	992.646	181516.04	0.0172	P	2.2
8	☐			4864.91	0.0005	P	5.3

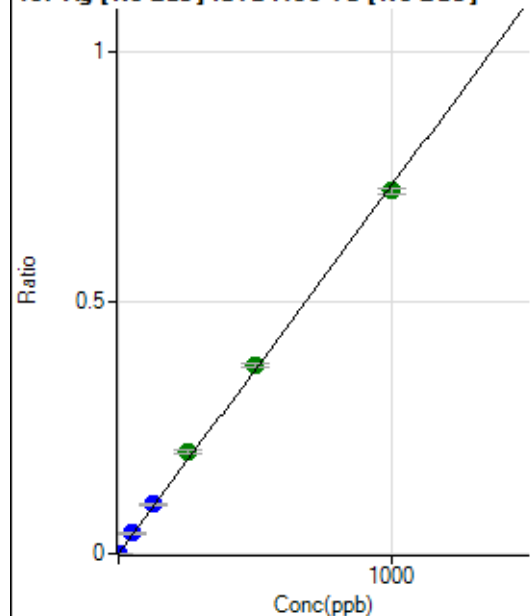
$$y = 1.6811\text{E-}005 * x + 4.7340\text{E-}004$$

$$R = 0.9999$$

$$DL = 3.238$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	94.45	0.0000	P	13.4
2	☐	1.000	1.143	8341.66	0.0008	P	7.6
3	☐	50.000	55.278	415033.55	0.0405	P	2.3
4	☐	125.000	133.868	1009353.43	0.0980	P	2.7
5	☐	250.000	275.903	2089162.66	0.2020	A	2.7
6	☐	500.000	512.763	3950858.42	0.3755	A	1.9
7	☐	1000.000	985.770	7635451.74	0.7218	A	1.9
8	☐			4011.83	0.0004	P	30.5

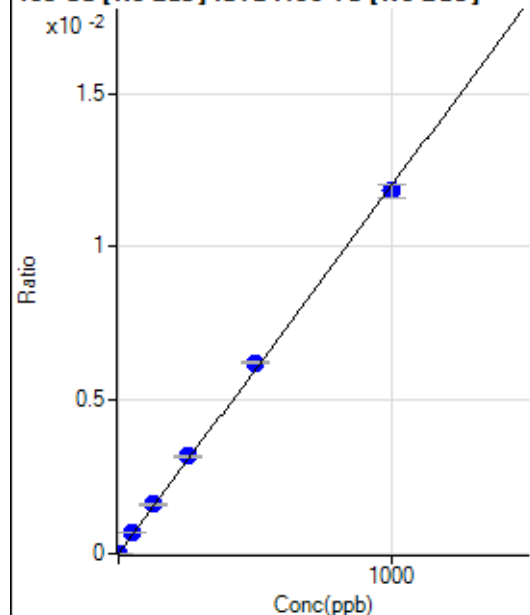
$$y = 7.3223\text{E-}004 * x + 9.3184\text{E-}006$$

$$R = 0.9995$$

$$DL = 0.005097$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	29.17	0.0000	P	28.0
2	☐	1.000	1.014	148.61	0.0000	P	14.3
3	☐	50.000	55.844	6893.48	0.0007	P	2.7
4	☐	125.000	133.115	16468.35	0.0016	P	2.3
5	☐	250.000	264.262	32797.48	0.0032	P	1.4
6	☐	500.000	517.981	65362.89	0.0062	P	1.1
7	☐	1000.000	986.138	125063.29	0.0118	P	3.7
8	☐			97.22	0.0000	P	28.5

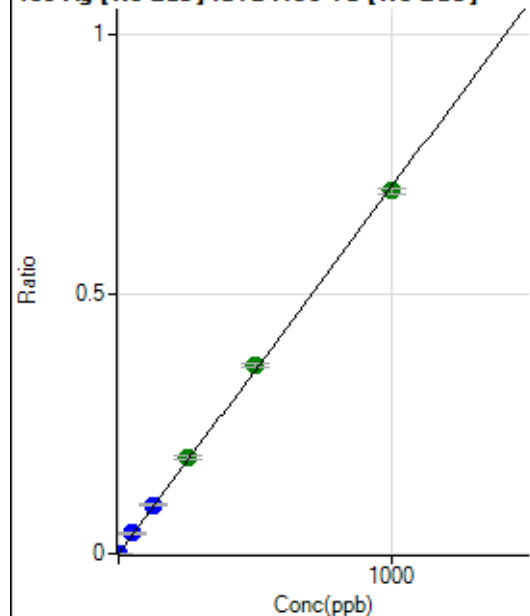
$$y = 1.1988\text{E-}005 * x + 2.8742\text{E-}006$$

$$R = 0.9996$$

$$DL = 0.2016$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	55.56	0.0000	P	42.8
2	☐	1.000	1.123	7896.91	0.0008	P	7.0
3	☐	50.000	55.422	402205.60	0.0392	P	2.8
4	☐	125.000	133.378	972200.75	0.0944	P	1.7
5	☐	250.000	262.132	1918807.27	0.1856	A	2.7
6	☐	500.000	513.394	3823347.35	0.3634	A	2.6
7	☐	1000.000	988.952	7404981.94	0.7000	A	1.6
8	☐			3731.21	0.0004	P	32.3

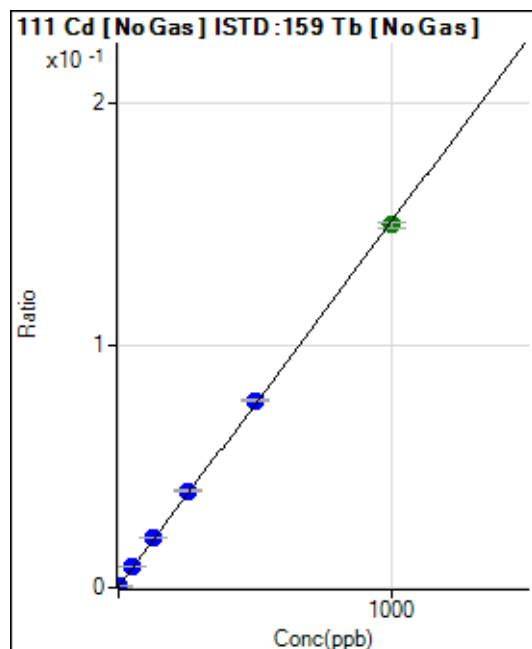
$$y = 7.0785\text{E-}004 * x + 5.4748\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.00993$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	3343.88	0.0003	P	4.1
2	☐	1.000	1.212	5058.50	0.0005	P	5.3
3	☐	50.000	54.451	87508.17	0.0085	P	1.8
4	☐	125.000	133.636	210785.85	0.0205	P	1.7
5	☐	250.000	262.381	412324.67	0.0399	P	1.8
6	☐	500.000	509.774	811707.63	0.0772	P	1.6
7	☐	1000.000	990.716	1582743.15	0.1496	A	1.8
8	☐			3930.47	0.0004	P	3.7

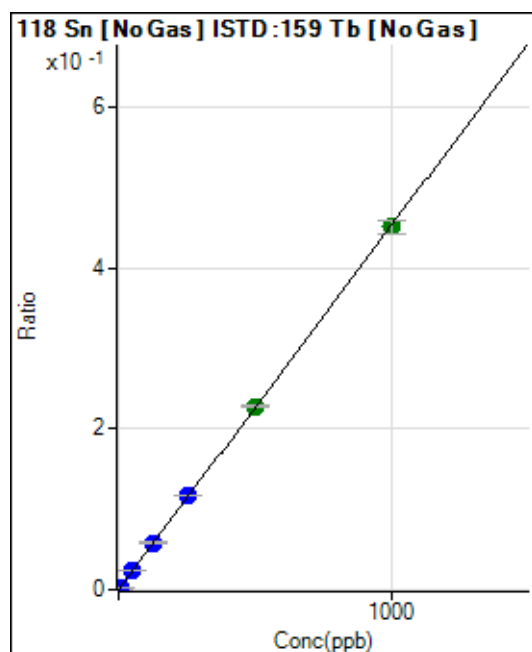
$$y = 1.5070\text{E-}004 * x + 3.2991\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.2708$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	1277.87	0.0001	P	5.8
2	☐	5.000	5.566	26028.19	0.0026	P	11.1
3	☐	50.000	53.311	248767.10	0.0243	P	2.9
4	☐	125.000	129.009	602919.52	0.0586	P	2.0
5	☐	250.000	258.354	1211598.56	0.1171	P	0.7
6	☐	500.000	502.847	2397418.18	0.2278	A	1.2
7	☐	1000.000	995.819	4771199.98	0.4511	A	3.4
8	☐			2828.15	0.0003	P	31.6

$$y = 4.5287\text{E-}004 * x + 1.2609\text{E-}004$$

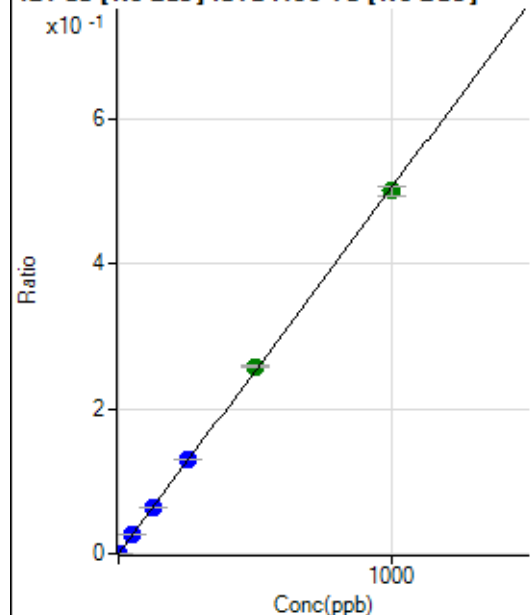
$$R = 1.0000$$

$$DL = 0.04881$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.56	0.0000	P	62.7
2	☐	2.000	2.130	10579.39	0.0011	P	12.6
3	☐	50.000	52.548	271620.93	0.0265	P	1.6
4	☐	125.000	127.148	660072.81	0.0641	P	1.8
5	☐	250.000	258.828	1349537.26	0.1305	P	0.5
6	☐	500.000	511.471	2712841.56	0.2578	A	0.9
7	☐	1000.000	991.661	5287611.58	0.4999	A	2.4
8	☐			3200.48	0.0003	P	25.3

$$y = 5.0410\text{E-}004 * x + 3.0048\text{E-}006$$

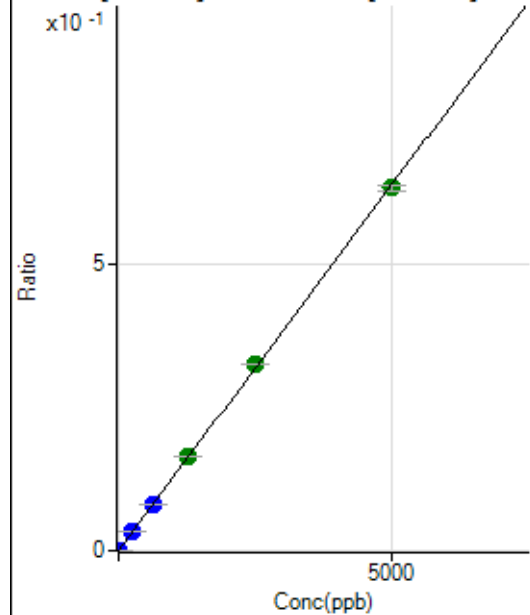
$$R = 0.9999$$

$$DL = 0.01121$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16.67	0.0000	P	49.7
2	☐	10.000	10.416	13126.11	0.0013	P	7.0
3	☐	250.000	258.838	338815.24	0.0330	P	1.7
4	☐	625.000	628.569	826220.72	0.0802	P	1.9
5	☐	1250.000	1293.248	1707582.96	0.1651	A	1.2
6	☐	2500.000	2552.867	3428923.43	0.3259	A	0.8
7	☐	5000.000	4961.866	6700479.58	0.6334	A	1.7
8	☐			3900.68	0.0004	P	30.7

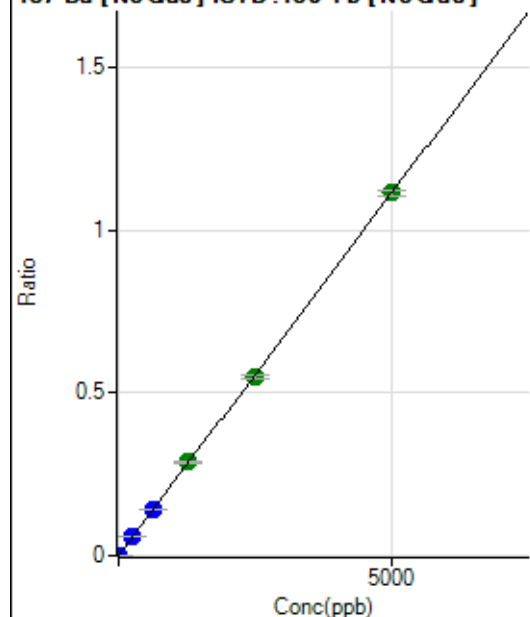
$$y = 1.2765\text{E-}004 * x + 1.6441\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.01922$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	42.9
2	☐	10.000	10.091	22104.67	0.0022	P	12.0
3	☐	250.000	260.441	594448.22	0.0580	P	3.2
4	☐	625.000	631.837	1448656.55	0.1407	P	0.5
5	☐	1250.000	1287.155	2963859.07	0.2866	A	0.7
6	☐	2500.000	2468.974	5782842.62	0.5497	A	2.2
7	☐	5000.000	5004.847	11786616.93	1.1142	A	1.5
8	☐			6835.33	0.0007	P	31.0

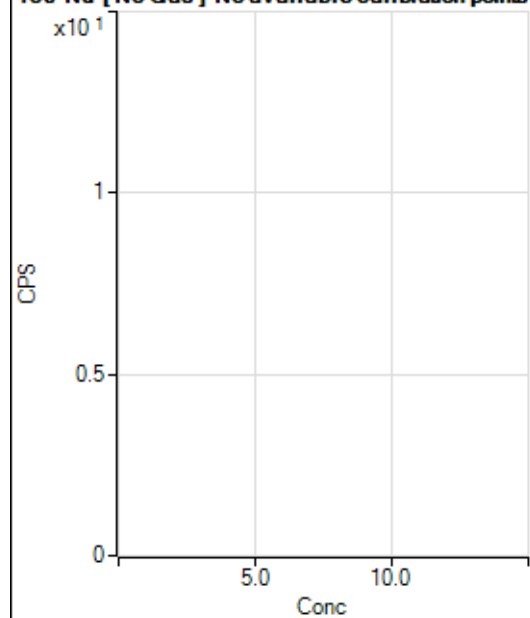
$$y = 2.2263E-004 * x + 2.1905E-006$$

$$R = 0.9999$$

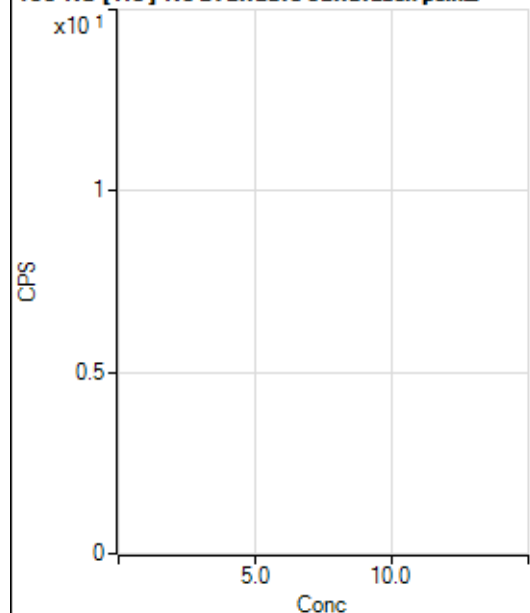
$$DL = 0.01266$$

Weight: <None>

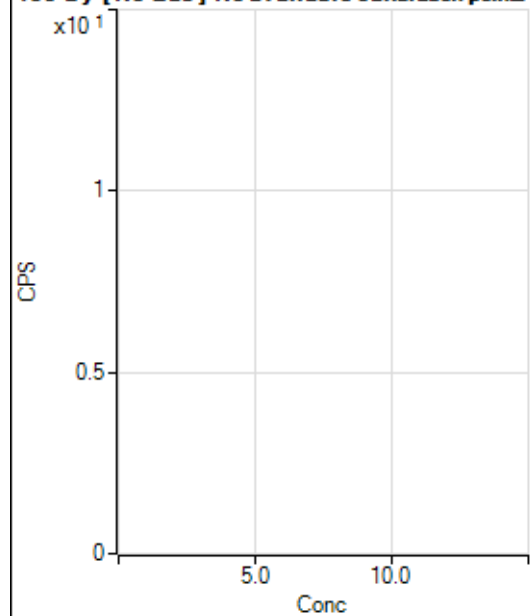
Min Conc: 0

150 Nd [No Gas] No available calibration points

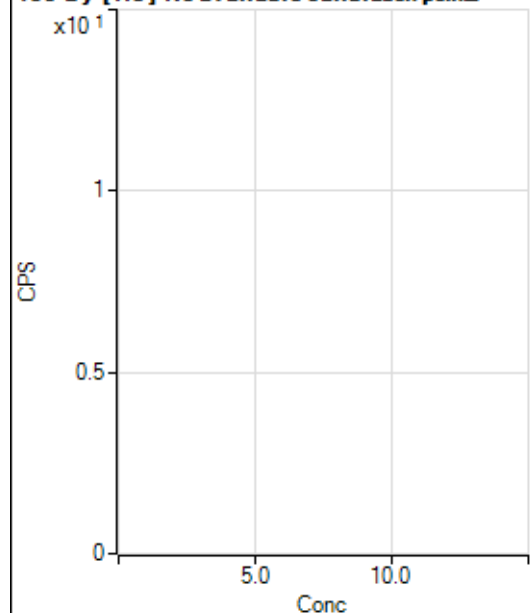
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6.67		P	100.0
2	☐			2.22		P	173.2
3	☐			46.67		P	37.8
4	☐			128.89		P	26.5
5	☐			233.34		P	7.6
6	☐			464.47		P	8.4
7	☐			877.83		P	4.5
8	☐			48.89		P	20.8

150 Nd [He] No available calibration points

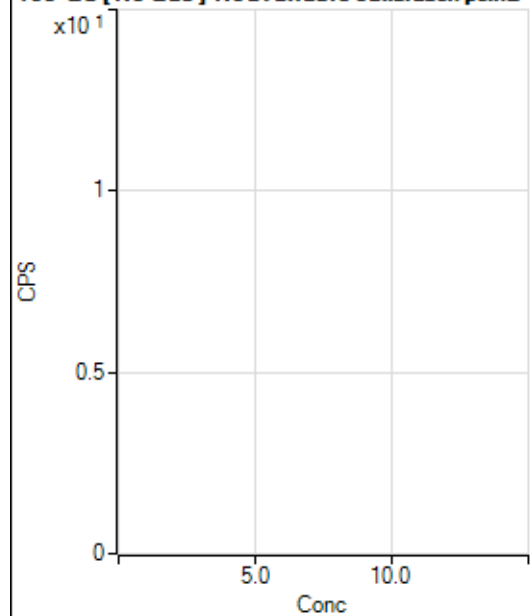
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			5.56		P	34.7
4	☐			5.55		P	69.3
5	☐			11.11		P	75.5
6	☐			20.00		P	33.4
7	☐			33.33		P	52.9
8	☐			12.22		P	56.8

156 Dy [No Gas] No available calibration points

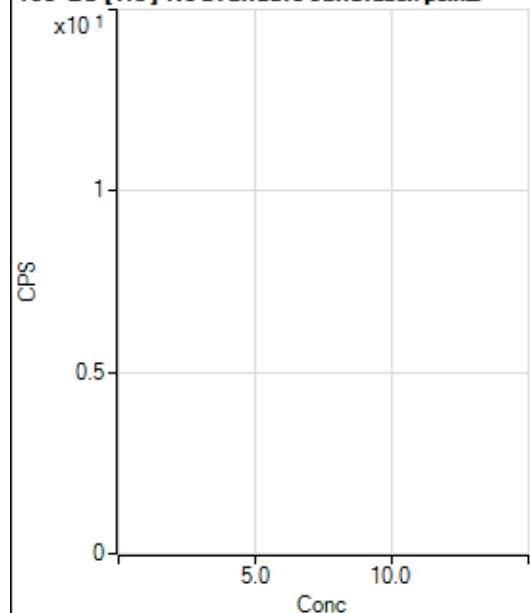
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	86.6
2	☐			8.33		P	173.2
3	☐			27.78		P	62.5
4	☐			52.78		P	48.2
5	☐			100.01		P	14.4
6	☐			205.56		P	10.2
7	☐			438.91		P	19.1
8	☐			1402.89		P	6.2

156 Dy [He] No available calibration points

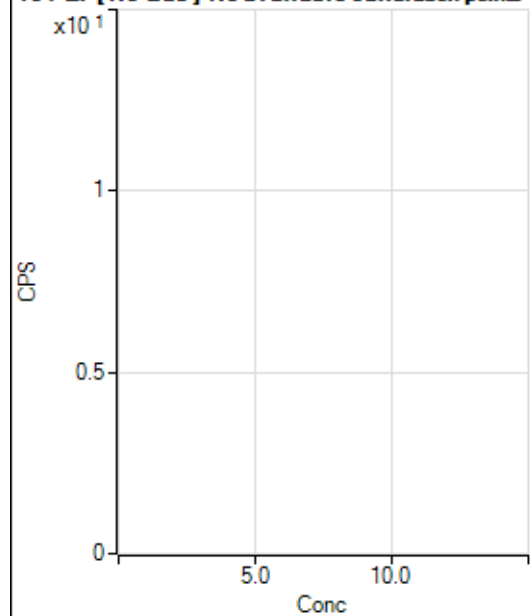
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			1.11		P	173.2
3	☐			12.22		P	63.0
4	☐			27.78		P	42.1
5	☐			38.89		P	27.5
6	☐			82.22		P	30.4
7	☐			172.23		P	22.0
8	☐			482.23		P	6.0

160 Gd [No Gas] Noavailable calibration poin_

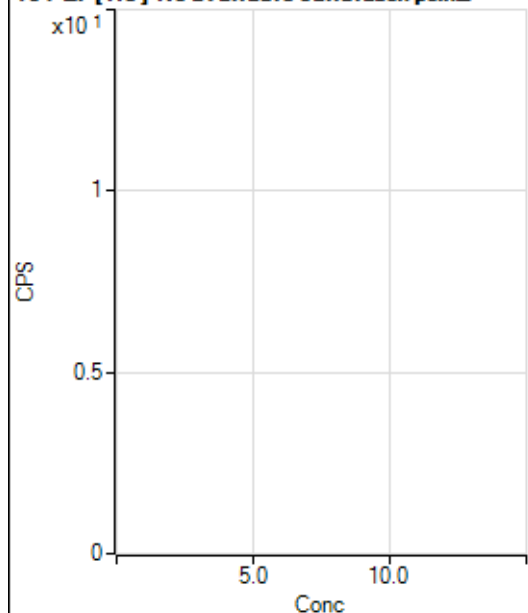
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			72.22		P	17.6
2	☐			113.89		P	36.8
3	☐			100.00		P	25.0
4	☐			147.23		P	36.4
5	☐			147.23		P	34.6
6	☐			277.79		P	16.5
7	☐			447.24		P	6.5
8	☐			1516.80		P	5.2

160 Gd [He] No available calibration points

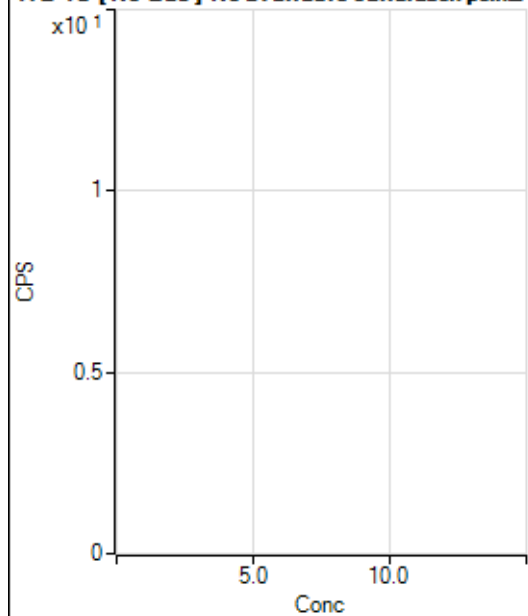
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			163.34		P	20.4
2	☐			165.56		P	19.6
3	☐			165.56		P	1.2
4	☐			203.34		P	10.0
5	☐			202.22		P	1.9
6	☐			200.01		P	20.8
7	☐			307.79		P	16.0
8	☐			755.59		P	8.8

164 Er [No Gas] No available calibration points

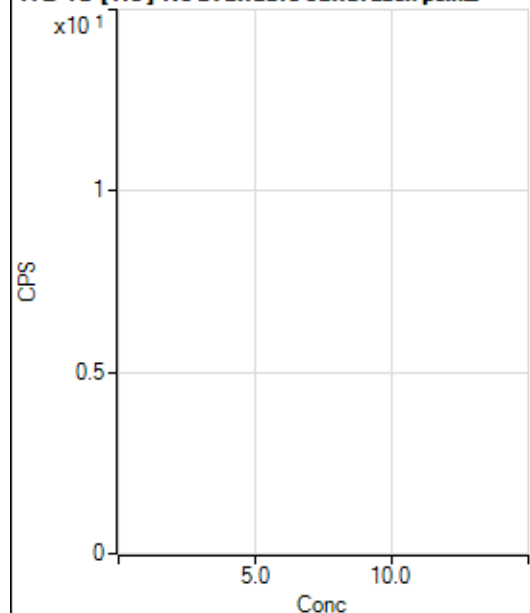
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			119.45		P	16.1
2	☐			86.11		P	20.1
3	☐			61.11		P	31.5
4	☐			77.78		P	12.4
5	☐			75.00		P	38.5
6	☐			63.89		P	27.2
7	☐			105.56		P	35.6
8	☐			155.56		P	8.2

164 Er [He] No available calibration points

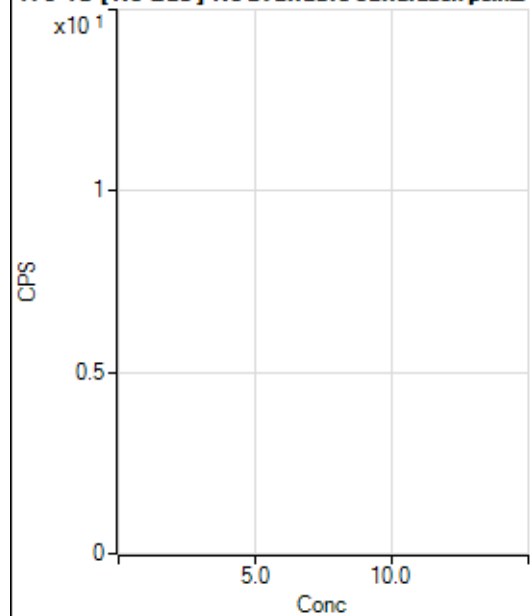
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			26.67		P	75.0
2	☐			28.89		P	40.5
3	☐			18.89		P	27.0
4	☐			17.78		P	21.7
5	☐			23.33		P	37.8
6	☐			30.00		P	61.9
7	☐			45.56		P	22.4
8	☐			44.44		P	26.3

172 Yb [No Gas] No available calibration points

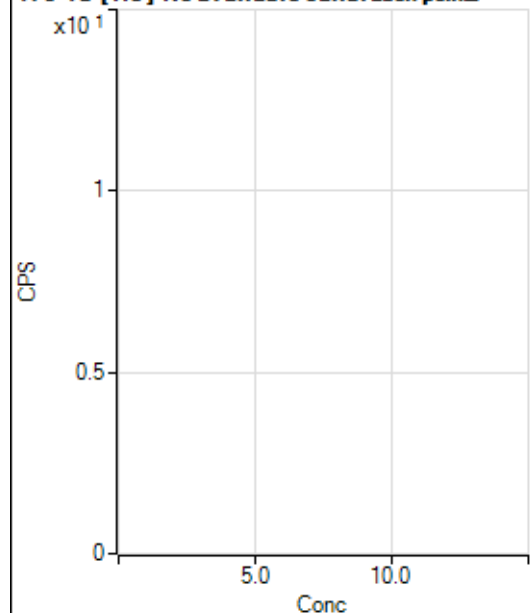
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			30.56		P	41.7
2	☐			47.22		P	27.0
3	☐			33.33		P	25.0
4	☐			25.00		P	57.7
5	☐			61.11		P	43.8
6	☐			111.11		P	15.6
7	☐			150.01		P	25.5
8	☐			522.25		P	16.0

172 Yb [He] No available calibration points

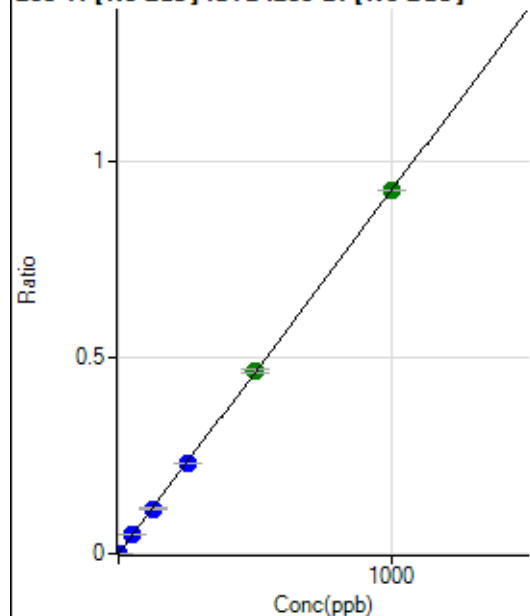
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			14.81		P	86.6
2	☐			29.63		P	43.3
3	☐			14.81		P	86.6
4	☐			14.81		P	114.6
5	☐			22.22		P	25.0
6	☐			42.59		P	41.9
7	☐			62.96		P	33.4
8	☐			218.52		P	3.9

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2266.93		P	8.8
2	☐			2166.93		P	14.6
3	☐			3520.01		P	1.3
4	☐			5242.83		P	6.8
5	☐			8252.81		P	3.9
6	☐			14438.81		P	0.6
7	☐			27885.86		P	2.1
8	☐			2286.38		P	15.3

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11796.22		P	4.6
2	☐			11905.58		P	2.7
3	☐			12285.53		P	1.3
4	☐			13801.89		P	6.9
5	☐			14289.43		P	1.5
6	☐			16121.29		P	6.9
7	☐			22387.73		P	2.8
8	☐			12493.14		P	5.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	325.01	0.0000	P	16.8
2	☐	1.000	0.961	6215.55	0.0009	P	5.8
3	☐	50.000	51.031	320585.85	0.0473	P	2.0
4	☐	125.000	123.506	774681.57	0.1143	P	2.0
5	☐	250.000	247.701	1588744.77	0.2292	P	0.3
6	☐	500.000	503.484	3193891.41	0.4659	A	1.6
7	☐	1000.000	998.968	6219514.16	0.9243	A	0.1
8	☐			1966.90	0.0004	P	46.5

$$y = 9.2523E-004 * x + 4.7314E-005$$

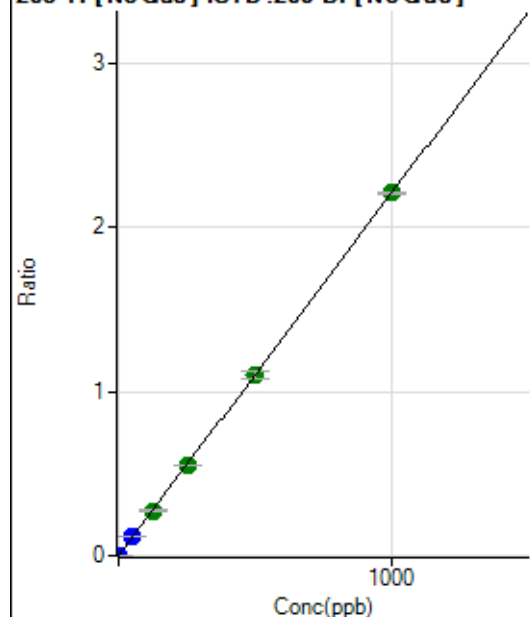
$$R = 1.0000$$

$$DL = 0.02577$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	822.28	0.0001	P	7.7
2	☐	1.000	0.992	15289.91	0.0023	P	8.8
3	☐	50.000	51.128	765617.19	0.1129	P	1.1
4	☐	125.000	124.618	1863027.06	0.2749	A	1.0
5	☐	250.000	249.848	3819282.55	0.5511	A	0.4
6	☐	500.000	498.297	7531535.58	1.0989	A	4.2
7	☐	1000.000	1000.881	14851637.48	2.2072	A	0.8
8	☐			4840.02	0.0009	P	40.3

$$y = 0.0022 * x + 1.1982E-004$$

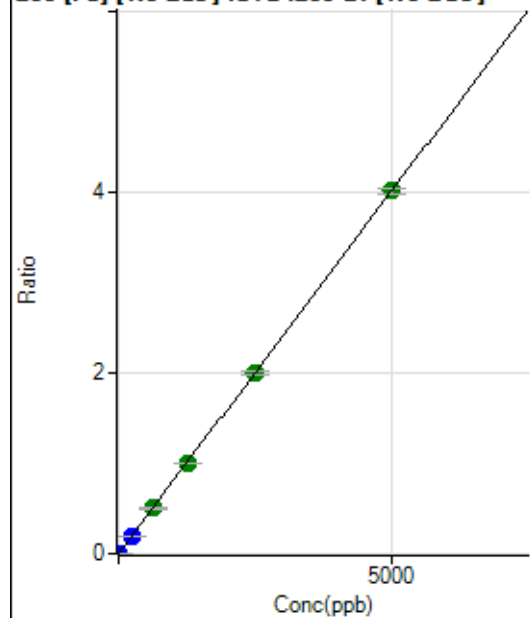
$$R = 1.0000$$

$$DL = 0.01254$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	687.07	0.0001	P	12.3
2	☐	1.000	0.944	5677.27	0.0009	P	11.3
3	☐	250.000	247.531	1349143.72	0.1989	P	1.0
4	☐	625.000	628.647	3421296.49	0.5049	A	2.5
5	☐	1250.000	1246.262	6937002.24	1.0008	A	2.0
6	☐	2500.000	2491.805	13716649.26	2.0010	A	2.4
7	☐	5000.000	5004.700	27039465.42	4.0188	A	1.4
8	☐			6794.74	0.0012	P	42.1

$$y = 8.0299E-004 * x + 1.0001E-004$$

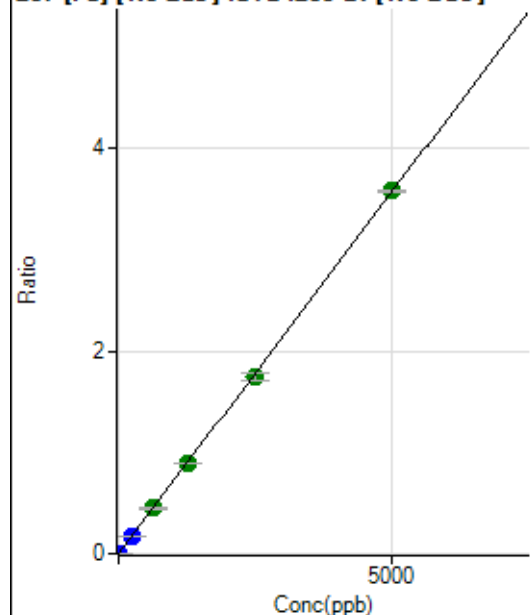
$$R = 1.0000$$

$$DL = 0.04579$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	629.66	0.0001	P	4.9
2	☐	1.000	0.902	4867.69	0.0007	P	9.0
3	☐	250.000	249.231	1205698.95	0.1777	P	0.7
4	☐	625.000	628.347	3035237.02	0.4479	A	2.6
5	☐	1250.000	1250.819	6179645.74	0.8916	A	0.8
6	☐	2500.000	2456.501	11999999.11	1.7509	A	4.4
7	☐	5000.000	5021.165	24080575.08	3.5788	A	0.7
8	☐			5944.21	0.0011	P	37.9

$$y = 7.1273E-004 * x + 9.1754E-005$$

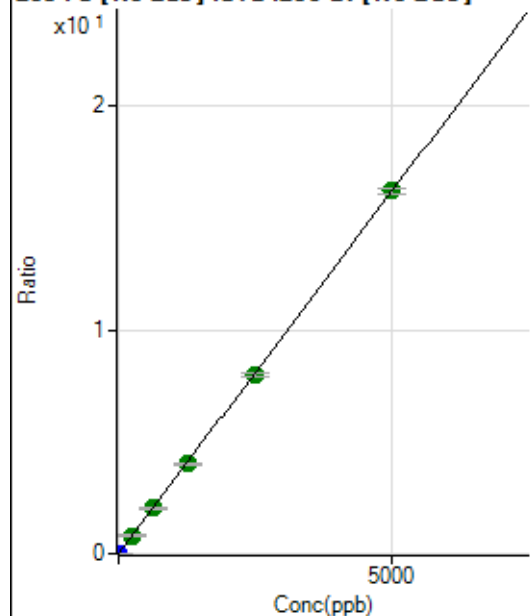
$$R = 0.9999$$

$$DL = 0.01882$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2807.58	0.0004	P	2.2
2	☐	1.000	0.934	22702.77	0.0034	P	9.8
3	☐	250.000	252.306	5539079.57	0.8164	A	1.0
4	☐	625.000	625.301	13707223.83	2.0228	A	1.8
5	☐	1250.000	1240.874	27819983.49	4.0137	A	1.4
6	☐	2500.000	2475.571	54887503.89	8.0071	A	2.4
7	☐	5000.000	5014.343	109125489.4	16.2182	A	1.5
8	☐			27470.78	0.0051	P	40.4

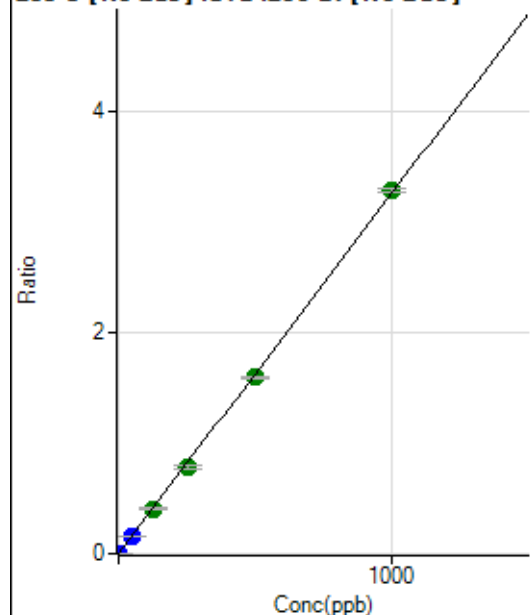
$$y = 0.0032 * x + 4.0903E-004$$

$$R = 1.0000$$

$$DL = 0.008478$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	44.44	0.0000	P	45.3
2	☐	1.000	0.953	20569.98	0.0031	P	11.0
3	☐	50.000	48.653	1074657.55	0.1584	P	2.2
4	☐	125.000	124.702	2751063.58	0.4059	A	2.0
5	☐	250.000	239.767	5409764.05	0.7804	A	3.6
6	☐	500.000	489.302	10918787.83	1.5927	A	1.3
7	☐	1000.000	1008.012	22076440.43	3.2811	A	1.0
8	☐			2825.63	0.0005	P	57.5

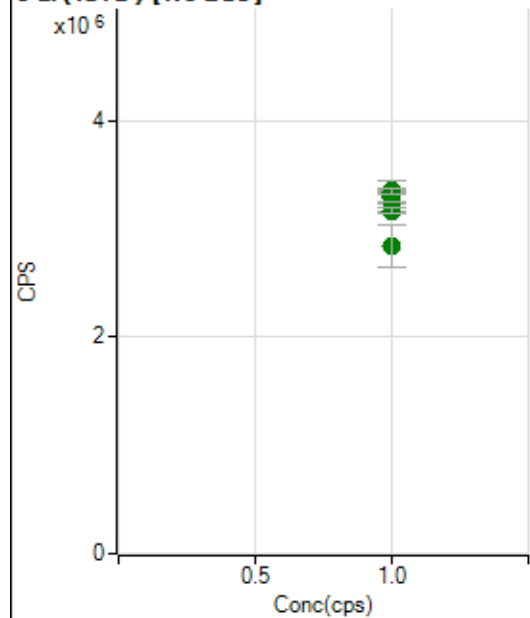
$$y = 0.0033 * x + 6.5120E-006$$

$$R = 0.9999$$

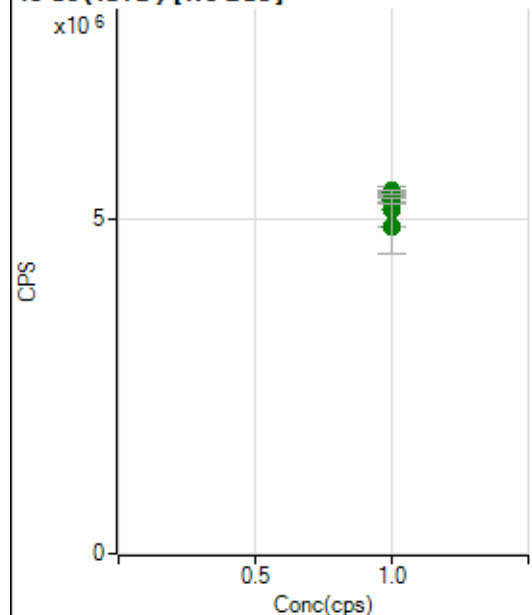
$$DL = 0.002721$$

Weight: <None>

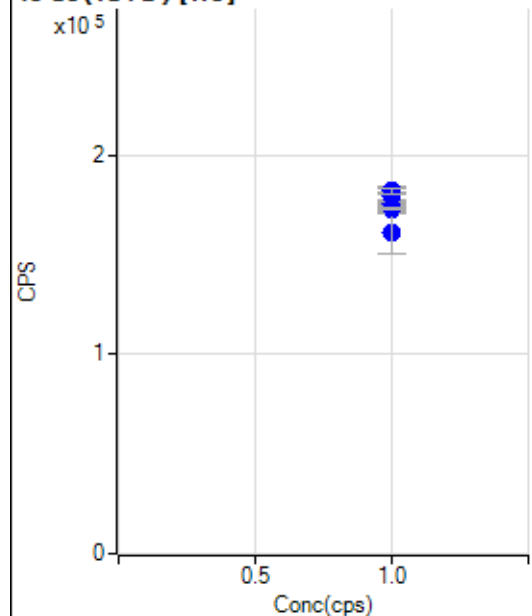
Min Conc: 0

6 Li (ISTD) [No Gas]

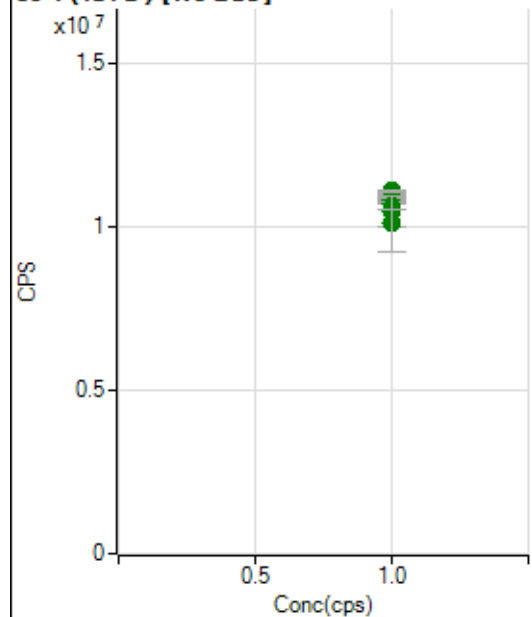
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3304511.60		A	4.6
2	☐	1.000		3287501.59		A	9.2
3	☐	1.000		3351107.44		A	1.6
4	☐	1.000		3345852.42		A	0.3
5	☐	1.000		3344207.42		A	1.7
6	☐	1.000		3202197.67		A	2.7
7	☐	1.000		3170027.87		A	1.4
8	☐	1.000		2835562.57		A	13.7

45 Sc (ISTD) [No Gas]

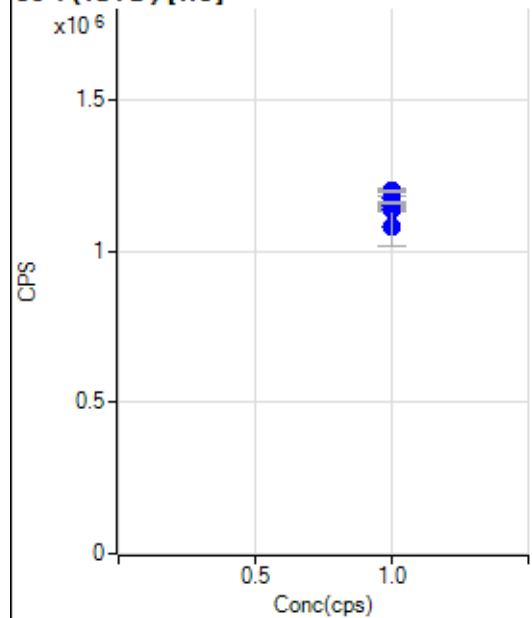
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5316605.79		A	1.5
2	☐	1.000		5159627.46		A	10.1
3	☐	1.000		5432977.00		A	2.1
4	☐	1.000		5328797.21		A	0.4
5	☐	1.000		5268448.05		A	0.5
6	☐	1.000		5308680.86		A	2.4
7	☐	1.000		5408622.00		A	0.9
8	☐	1.000		4900181.84		A	17.0

45 Sc (ISTD) [He]

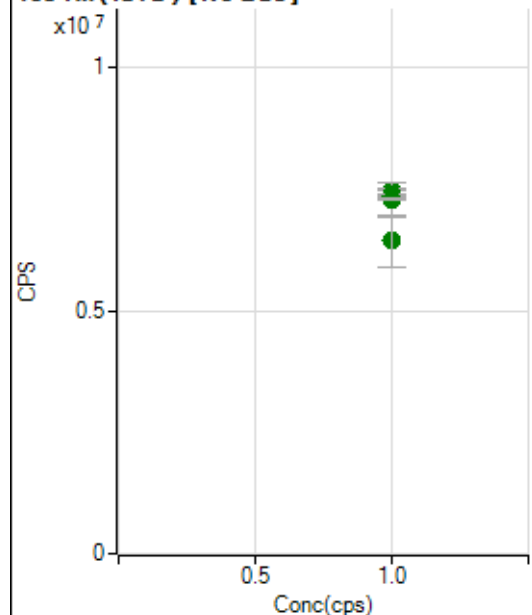
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		179733.73		P	2.2
2	☐	1.000		176704.80		P	1.3
3	☐	1.000		175603.26		P	1.4
4	☐	1.000		179828.38		P	5.2
5	☐	1.000		173174.03		P	1.1
6	☐	1.000		160813.86		P	12.2
7	☐	1.000		173251.57		P	1.1
8	☐	1.000		182097.98		P	1.7

89 Y (ISTD) [No Gas]

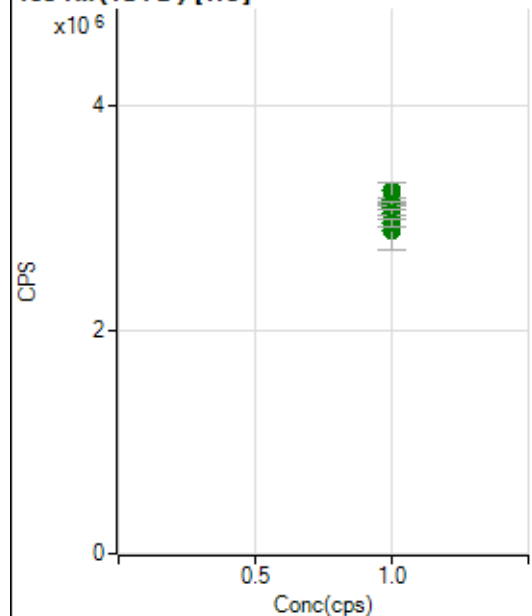
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10877245.04		A	0.8
2	☐	1.000		10480751.30		A	9.1
3	☐	1.000		10759506.44		A	0.7
4	☐	1.000		10726228.59		A	3.2
5	☐	1.000		10813452.68		A	0.8
6	☐	1.000		10924612.48		A	1.2
7	☐	1.000		11099263.31		A	0.7
8	☐	1.000		10092623.60		A	17.1

89 Y (ISTD) [He]

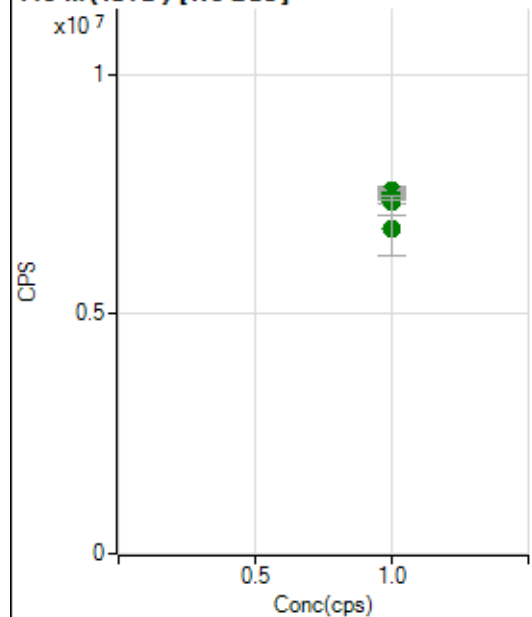
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1164383.70		P	2.6
2	☐	1.000		1149024.61		P	1.6
3	☐	1.000		1137408.71		P	1.1
4	☐	1.000		1177208.33		P	5.2
5	☐	1.000		1144632.40		P	0.2
6	☐	1.000		1080892.40		P	11.8
7	☐	1.000		1158720.50		P	0.8
8	☐	1.000		1198835.49		P	0.8

103 Rh (ISTD) [No Gas]

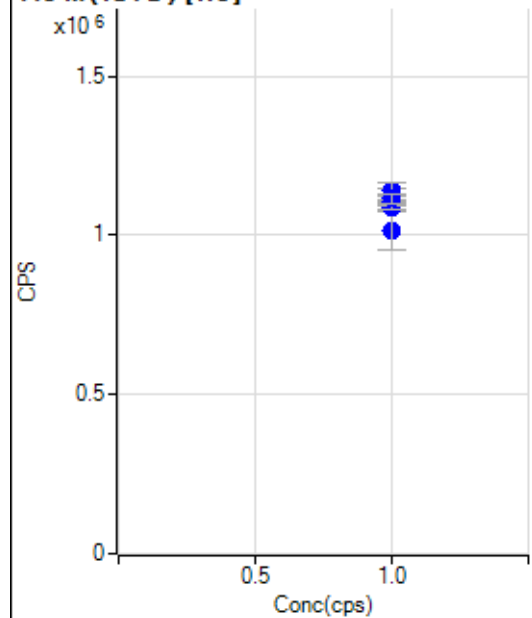
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7463278.20		A	1.3
2	☐	1.000		7285143.31		A	9.6
3	☐	1.000		7403452.94		A	1.6
4	☐	1.000		7382417.79		A	0.5
5	☐	1.000		7350211.62		A	1.1
6	☐	1.000		7349293.05		A	0.8
7	☐	1.000		7294676.90		A	0.6
8	☐	1.000		6432094.72		A	16.7

103 Rh (ISTD) [He]

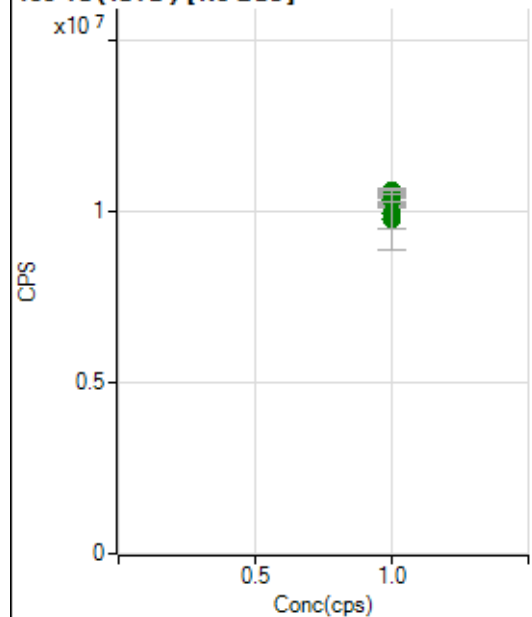
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3162855.99		A	1.5
2	☐	1.000		3156444.19		A	1.9
3	☐	1.000		3099945.20		A	1.0
4	☐	1.000		3245370.09		A	4.4
5	☐	1.000		3129244.78		A	1.3
6	☐	1.000		2895412.94		A	12.7
7	☐	1.000		3051141.45		A	1.7
8	☐	1.000		2963464.05		A	2.4

115 In (ISTD) [No Gas]

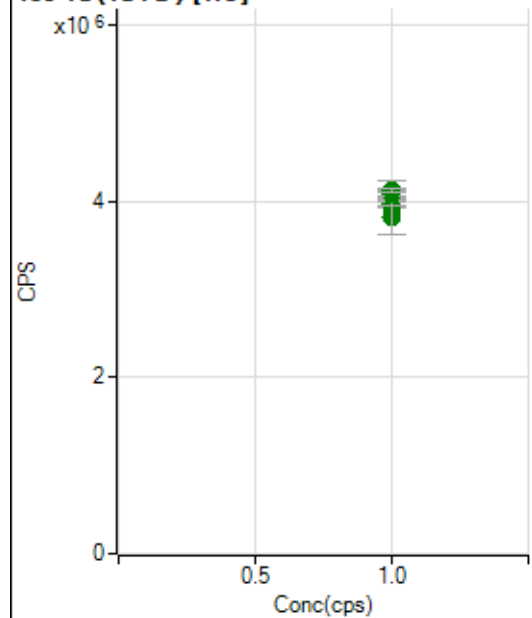
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7335508.95		A	1.0
2	☐	1.000		7362419.30		A	8.3
3	☐	1.000		7500295.75		A	1.1
4	☐	1.000		7537518.38		A	1.6
5	☐	1.000		7572194.97		A	1.2
6	☐	1.000		7506695.55		A	1.7
7	☐	1.000		7421020.39		A	0.8
8	☐	1.000		6800453.80		A	17.0

115 In (ISTD) [He]

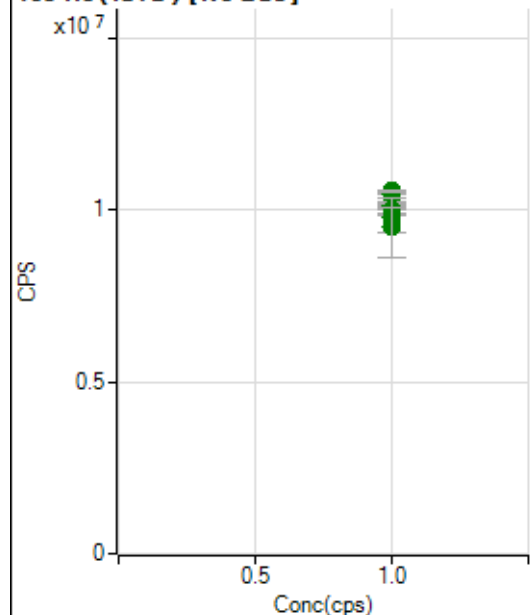
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1127984.38		P	3.1
2	☐	1.000		1125445.41		P	0.6
3	☐	1.000		1099535.04		P	0.6
4	☐	1.000		1139213.39		P	4.6
5	☐	1.000		1104671.38		P	0.9
6	☐	1.000		1015732.72		P	11.8
7	☐	1.000		1087919.29		P	0.8
8	☐	1.000		1114151.08		P	2.4

159 Tb (ISTD) [No Gas]

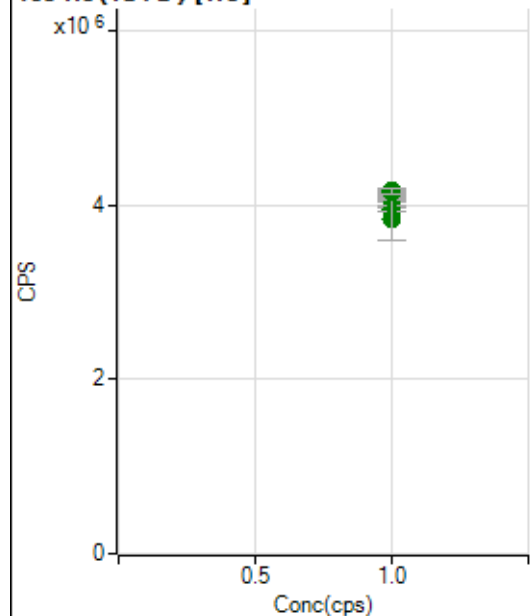
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10135474.71		A	0.8
2	☐	1.000		9900937.21		A	9.1
3	☐	1.000		10255312.07		A	2.6
4	☐	1.000		10299017.48		A	1.9
5	☐	1.000		10343575.12		A	1.6
6	☐	1.000		10521605.68		A	0.7
7	☐	1.000		10579696.09		A	1.4
8	☐	1.000		9729658.12		A	17.5

159 Tb (ISTD) [He]

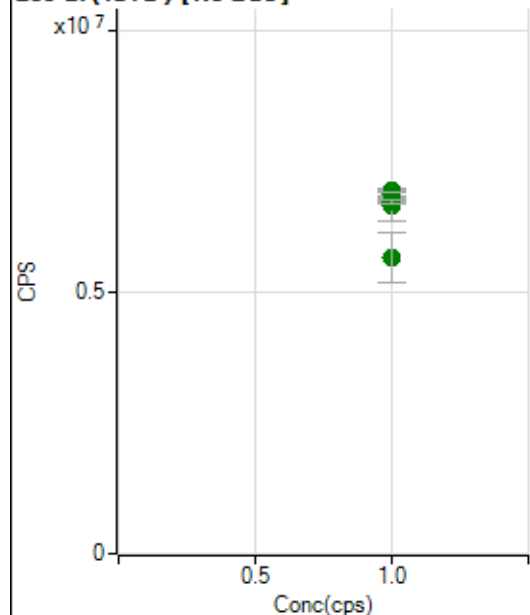
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3984823.10		A	3.4
2	☐	1.000		3926883.94		A	0.2
3	☐	1.000		3974226.78		A	1.4
4	☐	1.000		4102550.70		A	5.7
5	☐	1.000		4047148.03		A	2.1
6	☐	1.000		3824150.64		A	10.8
7	☐	1.000		4085664.66		A	1.3
8	☐	1.000		4114333.17		A	0.9

165 Ho (ISTD) [No Gas]

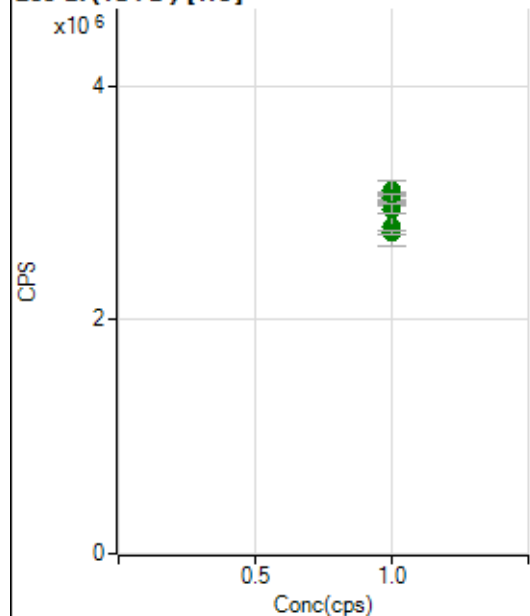
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9861921.14		A	0.9
2	☐	1.000		9779947.18		A	8.8
3	☐	1.000		10057800.05		A	1.0
4	☐	1.000		10120667.33		A	1.5
5	☐	1.000		10330889.90		A	2.2
6	☐	1.000		10442937.82		A	1.6
7	☐	1.000		10549119.25		A	0.2
8	☐	1.000		9495649.08		A	18.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4060644.49		A	3.9
2	☐	1.000		3964302.79		A	1.2
3	☐	1.000		3956119.84		A	1.6
4	☐	1.000		4098000.32		A	2.8
5	☐	1.000		4084479.11		A	1.4
6	☐	1.000		3843381.44		A	12.3
7	☐	1.000		4149092.75		A	1.3
8	☐	1.000		4167213.34		A	1.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6862099.76		A	1.8
2	☐	1.000		6661324.41		A	9.0
3	☐	1.000		6784488.02		A	1.6
4	☐	1.000		6777009.00		A	1.1
5	☐	1.000		6930831.56		A	0.5
6	☐	1.000		6856477.33		A	1.5
7	☐	1.000		6728701.22		A	0.9
8	☐	1.000		5655128.84		A	17.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3047669.61		A	3.5
2	☐	1.000		3042708.88		A	1.5
3	☐	1.000		3020520.44		A	1.0
4	☐	1.000		3105003.43		A	5.7
5	☐	1.000		3045291.14		A	1.7
6	☐	1.000		2803278.25		A	12.6
7	☐	1.000		2953784.26		A	2.7
8	☐	1.000		2752090.83		A	1.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8031423 MS.b
Acq. Date-Time 2023-03-14 10:46:01
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		11794	117938.47			0.553	5.000
24		86094	860943.98			0.986	5.000
25		11565	115646.39			1.384	5.000
26		13556	135555.74			0.916	5.000
59		65609	656093.39			1.208	5.000
113		6976	69759.94			0.818	5.000
115		89403	894030.90			1.328	5.000
206		23520	235198.47			1.372	5.000
207		21537	215369.07			1.427	5.000
208		51008	510082.43			0.972	5.000
220		0	3.00			26.352	

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

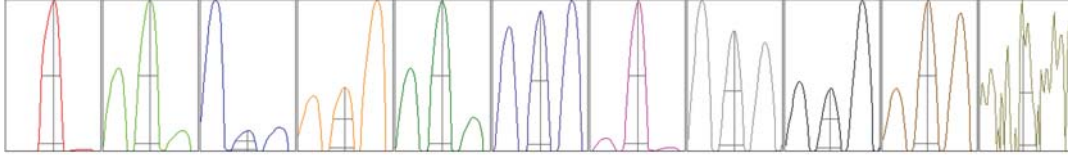
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	11881	11784	11705	11774	11825
24	87112	86252	85364	86644	85100
25	11698	11514	11306	11647	11657
26	13653	13501	13364	13655	13605
59	65559	65531	64407	66568	65982
113	6982	6951	6924	7071	6952
115	90676	87983	89061	90587	88709
206	23324	23277	23499	24076	23423
207	21486	21291	21467	22069	21371
208	51000	50379	51040	51760	50864

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	21272.25	9.05	8.90 - 9.10	
24	150590.38	24.00	23.90 - 24.10	
25	20096.89	25.00	24.90 - 25.10	
26	23306.91	26.00	25.90 - 26.10	
59	122438.42	59.00	58.90 - 59.10	
113	13894.82	113.05	112.90 - 113.10	
115	176604.14	115.05	114.90 - 115.10	
206	45588.57	206.00	205.90 - 206.10	
207	41351.19	206.95	206.90 - 207.10	
208	99285.50	207.95	207.90 - 208.10	
220	0.50	219.90	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.779	0.900	
24	0.60	0.784	0.900	
25	0.60	0.787	0.900	
26	0.62	0.784	0.900	
59	0.56	0.736	0.900	
113	0.52	0.730	0.900	
115	0.53	0.758	0.900	
206	0.53	0.776	0.900	
207	0.53	0.780	0.900	
208	0.53	0.782	0.900	
220	0.40	0.539		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

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

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.8 V	Deflect	15.2 V
Extract 2	-210.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-110 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	190 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	-1.1 mm
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EM

Discriminator	4.3 mV	Analog HV	2320 V	Pulse HV	1730 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		13357	133570.15			1.040	
89		14919	149190.86			0.467	
205		12670	126700.93			0.592	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	13147	13409	13356	13531	13342
89	14858	15008	14863	14888	14979
205	12607	12666	12619	12796	12663

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.8 V	Deflect	3.8 V
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US EPA Tune Check Report

Extract 2	-210.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-110 V	Cell Exit	-70 V		

Cell Parameters

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

QP Parameters

Mass Gain	123	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	-1.1 mm
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EM

Discriminator	4.3 mV	Analog HV	2320 V	Pulse HV	1730 V
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