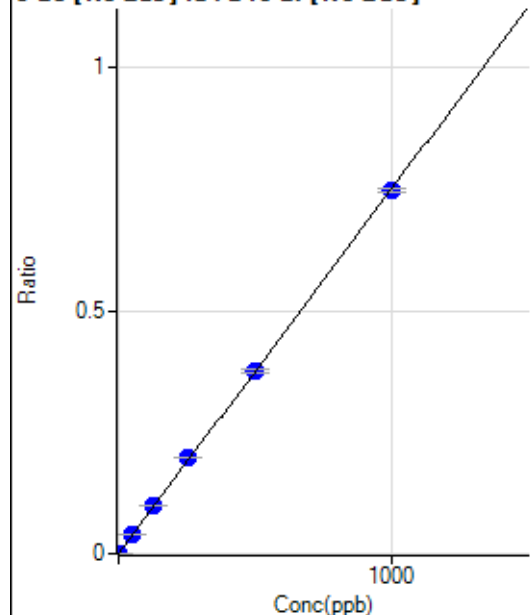


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8020220 MS.b\
Analysis File: P8020220 MS.batch.bin
DA Date-Time: 2020-02-02 12:45:48
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2020-02-02 12:44:11
2	006CALS.d	S02	2020-02-02 12:47:17
3	007CALS.d	S03	2020-02-02 12:50:21
4	008CALS.d	S04	2020-02-02 12:53:27
5	009CALS.d	S05	2020-02-02 12:56:29
6	010CALS.d	S06	2020-02-02 12:59:30
7	011CALS.d	S07	2020-02-02 13:02:28
8	012CALS.d	S08	2020-02-02 13:05:28

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	35.99	0.0001	P	15.2
2	☐	1.000	0.903	530.57	0.0007	P	5.7
3	☐	50.000	51.864	29338.56	0.0390	P	0.9
4	☐	125.000	132.738	75687.38	0.0997	P	1.7
5	☐	250.000	261.962	151751.16	0.1967	P	0.8
6	☐	500.000	502.259	291592.22	0.3771	P	2.4
7	☐	1000.000	994.820	592383.69	0.7470	P	1.0
8	☐			142.64	0.0002	P	7.4

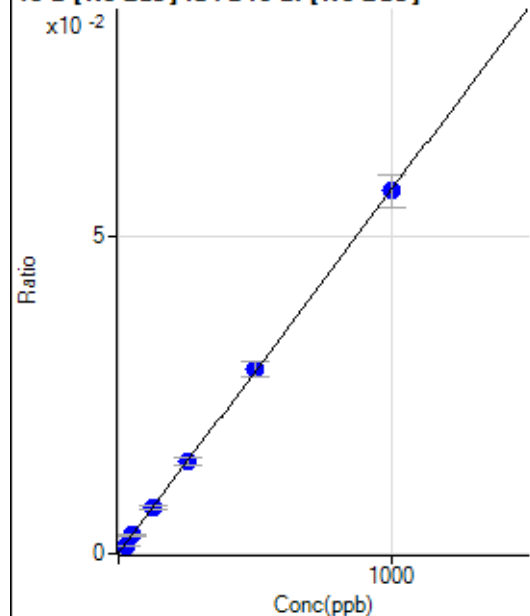
$$y = 7.5079\text{E-}004 * x + 5.0264\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.03045$$

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	47.32	0.0001	P	21.4
2	☐	25.000	20.711	911.85	0.0013	P	13.9
3	☐	50.000	49.500	2180.40	0.0029	P	6.5
4	☐	125.000	126.790	5561.97	0.0073	P	8.1
5	☐	250.000	252.033	11183.41	0.0145	P	8.2
6	☐	500.000	505.514	22408.64	0.0290	P	8.7
7	☐	1000.000	996.643	45265.76	0.0571	P	8.7
8	☐			7717.85	0.0105	P	6.5

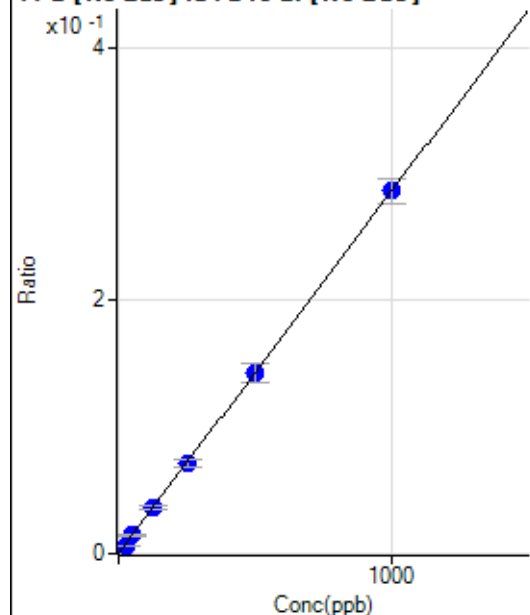
$$y = 5.7209\text{E-}005 * x + 6.6029\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.74$$

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	141.97	0.0002	P	12.0
2	☐	25.000	20.804	4485.15	0.0062	P	12.2
3	☐	50.000	51.354	11212.09	0.0149	P	8.8
4	☐	125.000	125.482	27438.80	0.0361	P	7.0
5	☐	250.000	250.193	55435.29	0.0718	P	7.5
6	☐	500.000	497.540	110248.68	0.1426	P	10.0
7	☐	1000.000	1001.159	227393.27	0.2868	P	7.2
8	☐			37837.72	0.0517	P	8.5

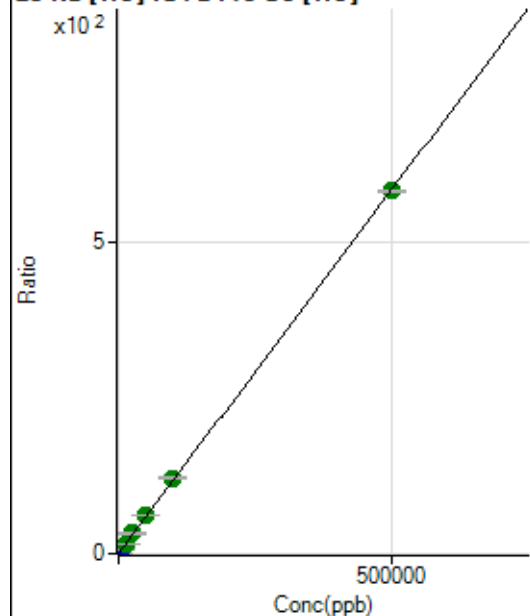
$$y = 2.8622\text{E-}004 * x + 1.9815\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.2499$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33007.35	0.3451	P	0.7
2	☐	500.000	527.227	91634.91	0.9605	P	0.9
3	☐	5000.000	5606.104	678754.18	6.8892	P	1.3
4	☐	12500.000	14069.376	1682539.84	16.7685	A	1.2
5	☐	25000.000	27494.450	3300363.70	32.4398	A	1.5
6	☐	50000.000	52555.586	6297012.99	61.6940	A	1.1
7	☐	100000.00	103912.32	12951863.14	121.6436	A	1.3
8	☐	500000.00	498791.93	57770836.01	582.5927	A	0.7

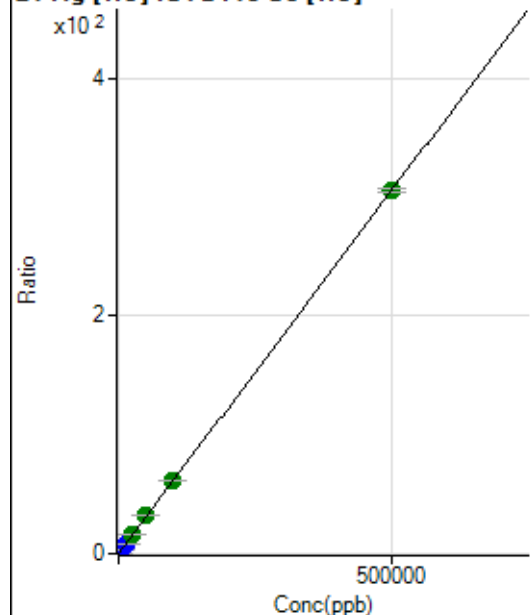
$$y = 0.0012 * x + 0.3451$$

$$R = 1.0000$$

$$DL = 6.589$$

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	302.79	0.0032	P	9.7
2	☐	500.000	538.343	31659.95	0.3319	P	1.8
3	☐	5000.000	5484.714	330256.92	3.3519	P	1.0
4	☐	12500.000	13840.567	848174.86	8.4537	P	2.2
5	☐	25000.000	27562.624	1712666.16	16.8318	A	1.2
6	☐	50000.000	51803.163	3228650.72	31.6321	A	0.5
7	☐	100000.00	99629.391	6477588.03	60.8328	A	0.4
8	☐	500000.00	499727.27	30254943.04	305.1164	A	1.1

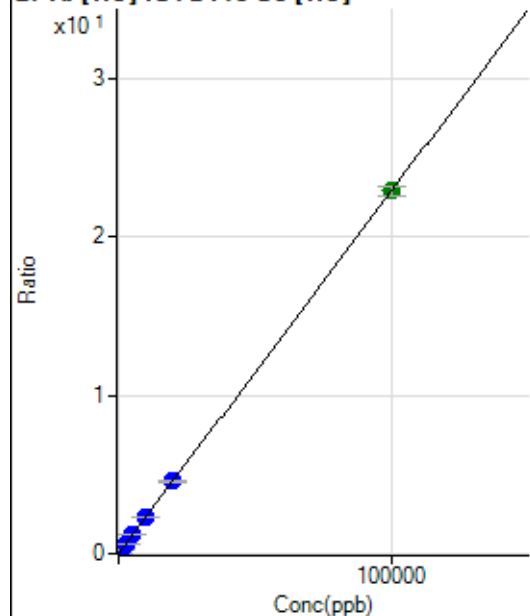
$$y = 6.1056\text{E-}004 * x + 0.0032$$

$$R = 1.0000$$

$$DL = 1.502$$

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	480.01	0.0050	P	10.6
2	☐	20.000	20.671	930.04	0.0098	P	11.5
3	☐	1000.000	1047.962	24125.73	0.2449	P	0.4
4	☐	2500.000	2670.264	61827.41	0.6162	P	0.6
5	☐	5000.000	5223.511	122144.96	1.2005	P	0.3
6	☐	10000.000	10053.207	235356.05	2.3059	P	0.6
7	☐	20000.000	19898.640	485461.17	4.5591	P	0.7
8	☐	100000.00	99999.039	2269724.69	22.8913	A	2.6

$$y = 2.2887\text{E-}004 * x + 0.0050$$

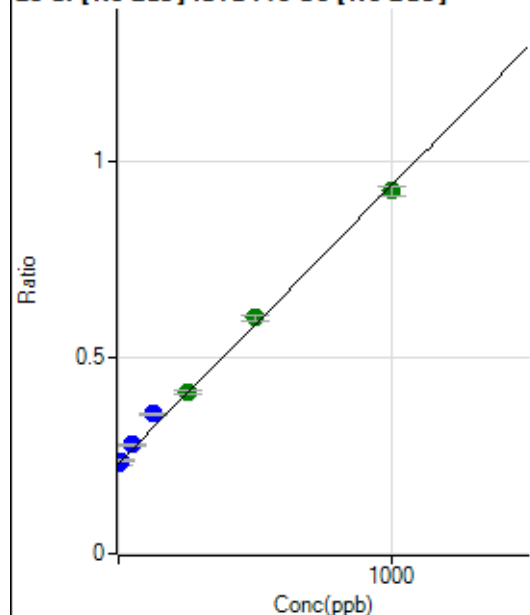
$$R = 1.0000$$

$$DL = 6.958$$

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	555015.66	0.2306	P	2.7
2	☐	10.000	8.599	579919.98	0.2367	P	1.3
3	☐	50.000	66.552	704153.25	0.2777	P	0.7
4	☐	125.000	176.440	910503.15	0.3556	P	1.9
5	☐	250.000	256.624	1075900.44	0.4124	A	2.2
6	☐	500.000	522.871	1599845.24	0.6009	A	2.8
7	☐	1000.000	979.665	2558960.54	0.9244	A	2.9
8	☐			679269.65	0.2692	P	0.5

$$y = 7.0821\text{E-}004 * x + 0.2306$$

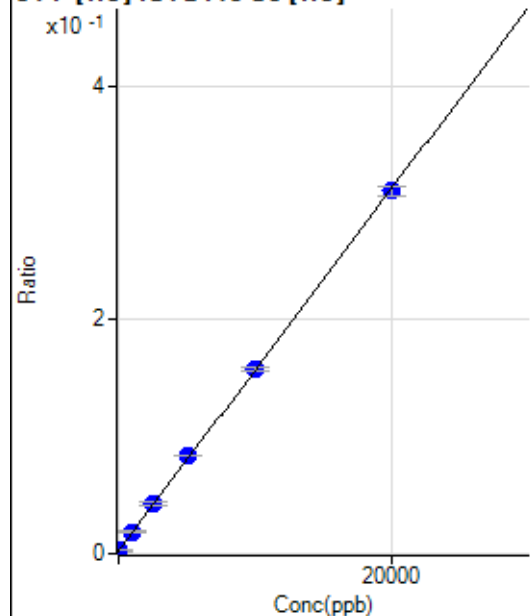
$$R = 0.9983$$

$$DL = 26.07$$

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	-33.929	175.01	0.0018	P	53.8
2	☐	0.000	33.929	275.01	0.0029	P	17.3
3	☐	1000.000	1062.683	1852.95	0.0188	P	5.8
4	☐	2500.000	2650.868	4350.76	0.0434	P	7.7
5	☐	5000.000	5259.960	8522.16	0.0838	P	1.2
6	☐	10000.000	10056.139	16123.23	0.1580	P	1.8
7	☐	20000.000	19884.948	33019.03	0.3101	P	2.4
8	☐			194.45	0.0020	P	19.6

$$y = 1.5474\text{E-}005 * x + 0.0024$$

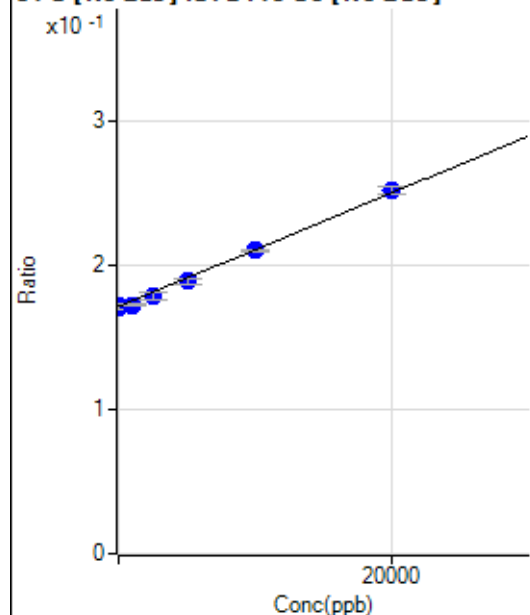
$$R = 0.9999$$

$$DL = 144$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	291.052	414873.29	0.1724	P	2.9
2	☐	0.000	-291.052	416762.78	0.1701	P	1.2
3	☐	1000.000	221.002	436355.58	0.1721	P	0.9
4	☐	2500.000	1939.740	457957.10	0.1789	P	3.2
5	☐	5000.000	4521.038	493252.30	0.1890	P	2.2
6	☐	10000.000	9803.721	558697.59	0.2098	P	1.2
7	☐	20000.000	20326.863	695599.28	0.2513	P	2.0
8	☐			380315.33	0.1507	P	1.8

$$y = 3.9372\text{E-}006 * x + 0.1712$$

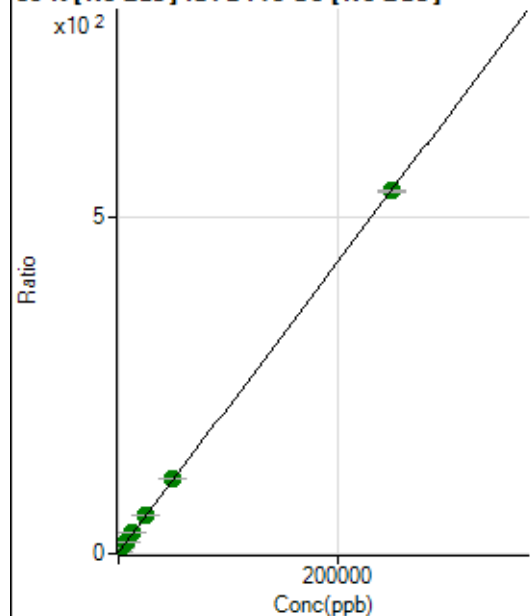
$$R = 0.9988$$

$$DL = 2712$$

Weight: <None>

Min Conc: 0

39 K [No Gas] ISTD:45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4268810.51	1.7739	A	3.1
2	☐	500.000	481.534	6885436.78	2.8104	A	1.5
3	☐	2500.000	2672.272	19081187.06	7.5259	A	0.8
4	☐	6250.000	6688.235	41402126.27	16.1703	A	2.7
5	☐	12500.000	13357.676	79670840.67	30.5263	A	0.7
6	☐	25000.000	25904.114	153187915.92	57.5326	A	0.3
7	☐	50000.000	50771.203	307497026.32	111.0591	A	1.0
8	☐	250000.00	249699.82	1360582341.5	539.2537	A	0.4

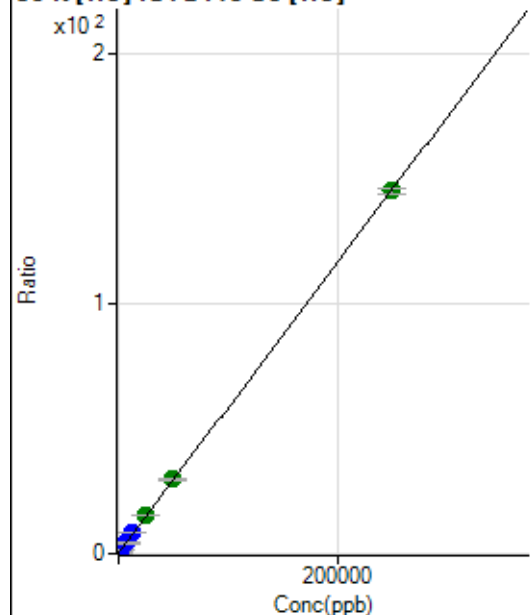
$$y = 0.0022 * x + 1.7739$$

$$R = 1.0000$$

$$DL = 77.21$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25431.26	0.2659	P	3.4
2	☐	500.000	532.101	54871.28	0.5751	P	0.4
3	☐	2500.000	2714.070	181619.05	1.8433	P	0.4
4	☐	6250.000	6836.648	425374.23	4.2394	P	1.5
5	☐	12500.000	13709.305	837726.73	8.2339	P	0.8
6	☐	25000.000	26026.086	1571113.88	15.3927	A	1.2
7	☐	50000.000	50616.048	3160846.40	29.6847	A	0.4
8	☐	250000.00	249696.84	14416565.60	145.3937	A	1.5

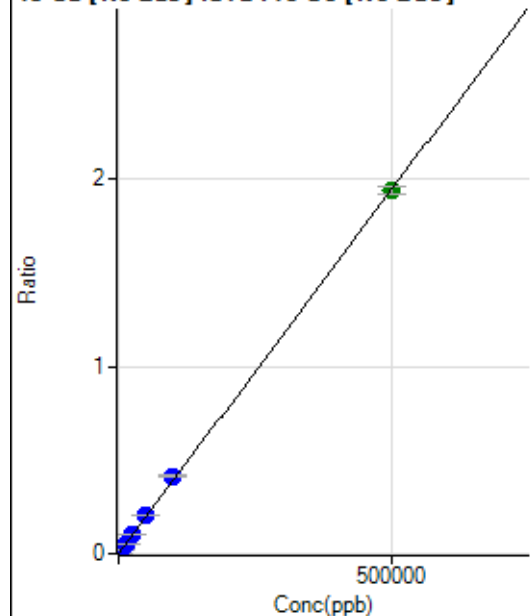
$$y = 5.8122\text{E-}004 * x + 0.2659$$

$$R = 1.0000$$

$$DL = 46.91$$

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	522.25	0.0002	P	20.3
2	☐	500.000	516.876	5459.52	0.0022	P	2.3
3	☐	5000.000	5495.198	54754.85	0.0216	P	0.8
4	☐	12500.000	13811.954	138179.70	0.0540	P	1.3
5	☐	25000.000	27511.777	279922.63	0.1073	P	1.0
6	☐	50000.000	52978.525	549405.69	0.2063	P	0.5
7	☐	100000.00	105869.71	1140844.40	0.4121	P	2.5
8	☐	500000.00	498364.84	4892661.83	1.9392	A	2.0

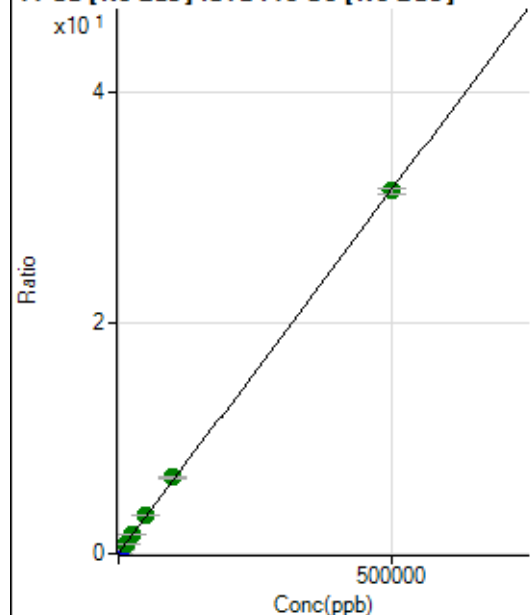
$$y = 3.8908\text{E-}006 * x + 2.1659\text{E-}004$$

$$R = 0.9999$$

$$DL = 33.84$$

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	52981.51	0.0220	P	3.8
2	☐	500.000	524.405	134848.03	0.0550	P	1.1
3	☐	5000.000	5584.113	947261.46	0.3736	P	0.6
4	☐	12500.000	13893.220	2296335.73	0.8968	A	2.1
5	☐	25000.000	27141.053	4517808.87	1.7309	A	0.6
6	☐	50000.000	52507.039	8861076.50	3.3281	A	1.2
7	☐	100000.00	104605.83	18295868.98	6.6084	A	1.3
8	☐	500000.00	498680.38	79274198.30	31.4210	A	1.6

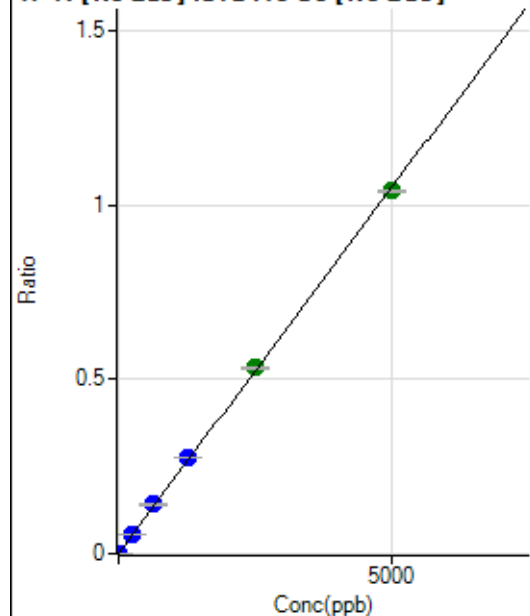
$$y = 6.2964\text{E-}005 * x + 0.0220$$

$$R = 1.0000$$

$$DL = 39.67$$

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	927.83	0.0004	P	3.4
2	☐	10.000	4.952	3492.20	0.0014	P	2.4
3	☐	250.000	264.178	141617.25	0.0559	P	1.4
4	☐	625.000	670.365	361462.91	0.1412	P	1.8
5	☐	1250.000	1316.232	722262.61	0.2768	P	1.4
6	☐	2500.000	2536.886	1419478.29	0.5331	A	1.9
7	☐	5000.000	4958.630	2884056.90	1.0416	A	0.7
8	☐			1252.87	0.0005	P	1.7

$$y = 2.0998\text{E-}004 * x + 3.8522\text{E-}004$$

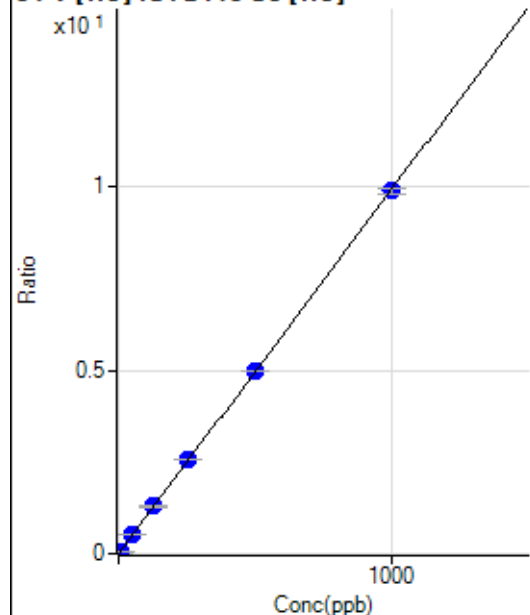
$$R = 0.9998$$

$$DL = 0.1846$$

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	18.89	0.0002	P	44.1
2	☐	5.000	5.121	4867.54	0.0510	P	0.5
3	☐	50.000	52.003	50863.38	0.5162	P	0.9
4	☐	125.000	130.229	129684.78	1.2925	P	1.8
5	☐	250.000	257.585	260082.60	2.5563	P	0.8
6	☐	500.000	502.295	508784.21	4.9847	P	0.2
7	☐	1000.000	996.202	1052655.93	9.8860	P	1.3
8	☐			293.34	0.0030	P	7.4

$$y = 0.0099 * x + 1.9739E-004$$

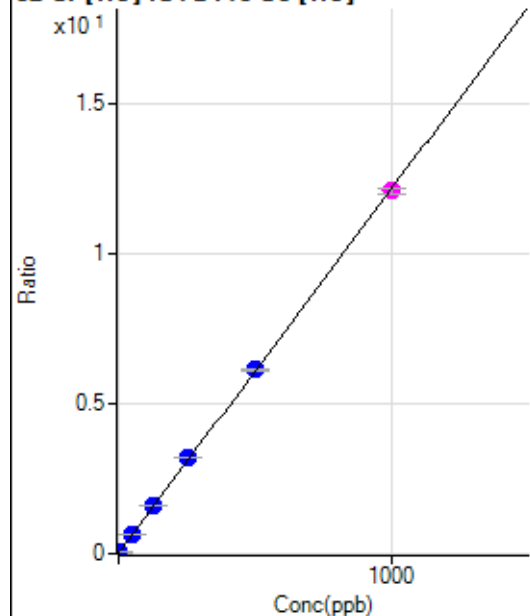
$$R = 1.0000$$

$$DL = 0.0263$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1715.68	0.0179	P	2.8
2	☐	2.000	1.996	4028.39	0.0422	P	3.0
3	☐	50.000	52.836	65098.41	0.6607	P	0.1
4	☐	125.000	131.725	162604.20	1.6204	P	0.6
5	☐	250.000	263.425	327879.09	3.2226	P	0.4
6	☐	500.000	502.622	625943.07	6.1326	P	0.6
7	☐	1000.000	994.351	1289917.28	12.1146	M	1.4
8	☐			22431.02	0.2262	P	0.9

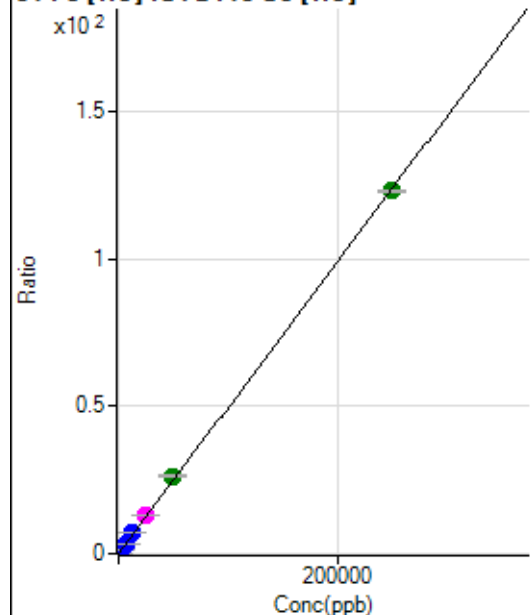
$$y = 0.0122 * x + 0.0179$$

$$R = 0.9999$$

$$DL = 0.1233$$

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	598.17	0.0063	P	8.0
2	☐	50.000	54.462	3165.22	0.0332	P	3.3
3	☐	2500.000	2814.142	137691.94	1.3975	P	0.2
4	☐	6250.000	7033.148	349504.61	3.4832	P	1.3
5	☐	12500.000	13930.349	701321.48	6.8930	P	0.5
6	☐	25000.000	26967.722	1361418.82	13.3382	M	0.4
7	☐	50000.000	53111.799	2796310.10	26.2630	A	1.5
8	☐	250000.00	249086.63	12211475.73	123.1467	A	0.8

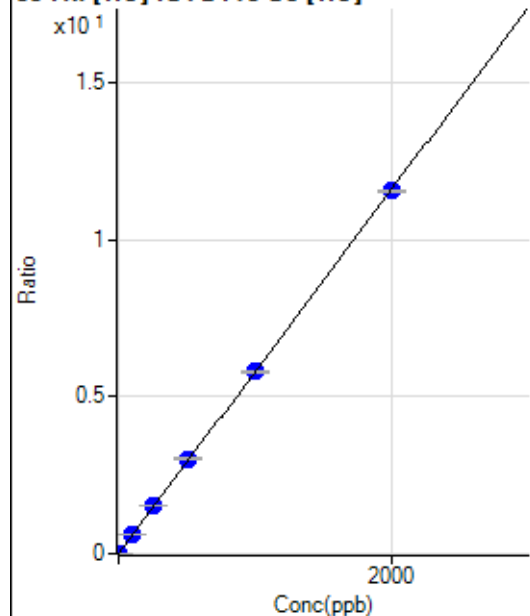
$$y = 4.9437\text{E-}004 * x + 0.0063$$

$$R = 0.9999$$

$$DL = 3.026$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	125.56	0.0013	P	23.6
2	☐	1.000	1.053	707.80	0.0074	P	6.5
3	☐	100.000	104.312	59751.09	0.6064	P	1.0
4	☐	250.000	265.118	154444.48	1.5392	P	1.6
5	☐	500.000	519.724	306852.29	3.0162	P	1.3
6	☐	1000.000	1000.631	592605.10	5.8059	P	1.0
7	☐	2000.000	1992.648	1230936.01	11.5605	P	0.8
8	☐			5288.81	0.0533	P	3.5

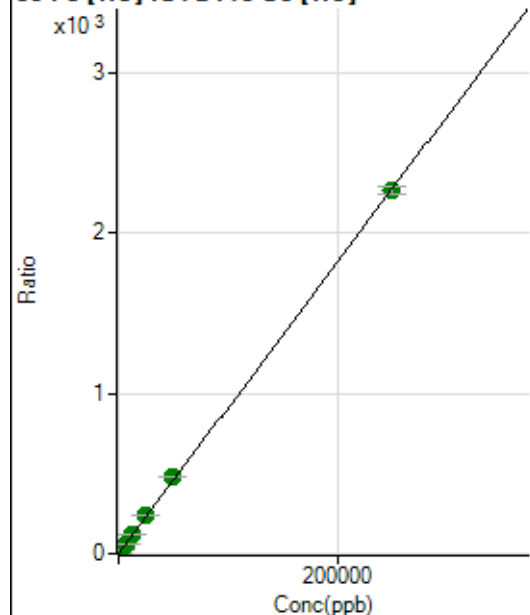
$$y = 0.0058 * x + 0.0013$$

$$R = 0.9999$$

$$DL = 0.1607$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4119.18	0.0431	P	2.8
2	☐	50.000	54.173	51028.43	0.5349	P	1.0
3	☐	2500.000	2788.616	2498758.07	25.3598	A	1.3
4	☐	6250.000	6967.459	6351536.83	63.2978	A	0.6
5	☐	12500.000	13552.883	12521885.12	123.0842	A	1.4
6	☐	25000.000	26328.293	24401285.27	239.0669	A	0.4
7	☐	50000.000	52448.765	50708440.95	476.2040	A	0.3
8	☐	250000.00	249303.95	224420799.46	2,263.371	A	2.2

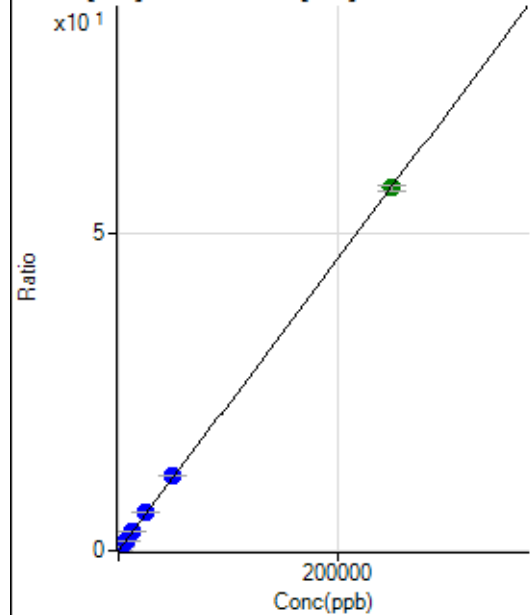
$$y = 0.0091 * x + 0.0431$$

$$R = 0.9999$$

$$DL = 0.4001$$

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	120.37	0.0013	P	42.3
2	☐	50.000	59.266	1413.06	0.0148	P	7.4
3	☐	2500.000	2760.540	62300.43	0.6323	P	1.3
4	☐	6250.000	6833.756	156871.76	1.5635	P	1.9
5	☐	12500.000	13588.563	316173.61	3.1077	P	0.8
6	☐	25000.000	26162.385	610588.72	5.9821	P	1.1
7	☐	50000.000	51790.028	1260772.71	11.8407	P	1.1
8	☐	250000.00	249454.12	5654638.20	57.0275	A	1.9

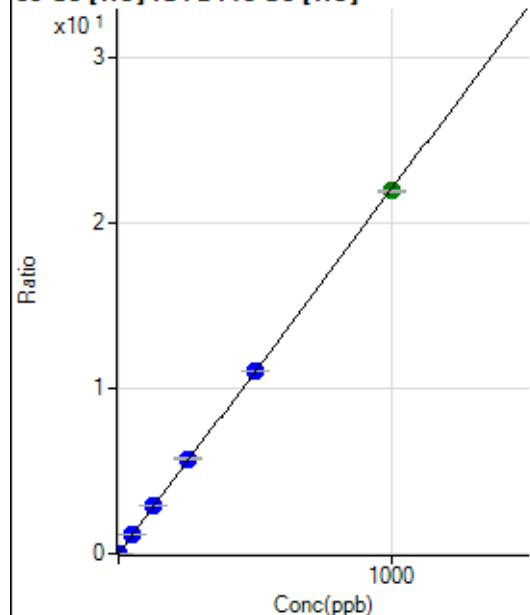
$$y = 2.2860E-004 * x + 0.0013$$

$$R = 1.0000$$

$$DL = 7.004$$

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	105.56	0.0011	P	16.6
2	☐	1.000	0.975	2156.86	0.0226	P	4.4
3	☐	50.000	52.471	114108.51	1.1582	P	1.5
4	☐	125.000	132.475	293263.82	2.9224	P	0.5
5	☐	250.000	260.221	583927.74	5.7393	P	0.8
6	☐	500.000	501.994	1129979.50	11.0707	P	0.6
7	☐	1000.000	995.390	2337484.70	21.9508	A	0.6
8	☐			3534.92	0.0357	P	4.2

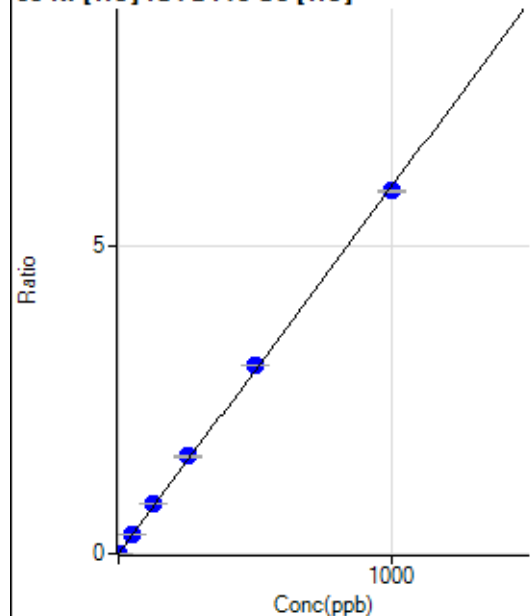
$$y = 0.0221 * x + 0.0011$$

$$R = 0.9999$$

$$DL = 0.02492$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	131.11	0.0014	P	20.9
2	☐	1.000	1.166	794.48	0.0083	P	9.2
3	☐	50.000	53.327	31504.89	0.3198	P	0.8
4	☐	125.000	133.979	80412.34	0.8013	P	0.5
5	☐	250.000	264.628	160884.96	1.5813	P	0.8
6	☐	500.000	512.764	312622.29	3.0629	P	0.4
7	☐	1000.000	988.672	628727.74	5.9043	P	0.6
8	☐			7233.01	0.0729	P	0.7

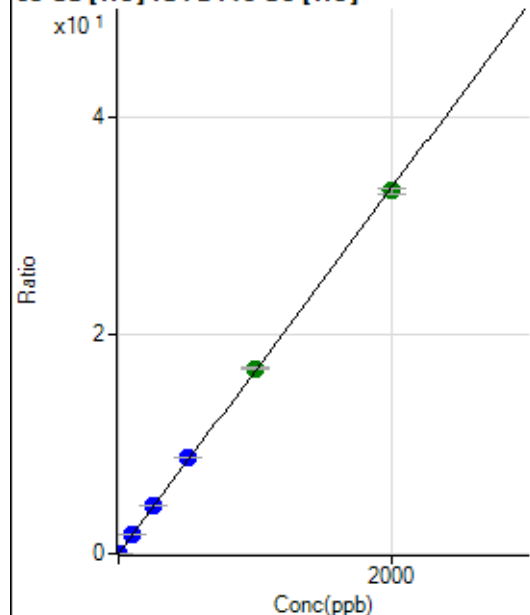
$$y = 0.0060 * x + 0.0014$$

$$R = 0.9997$$

$$DL = 0.1435$$

Weight: <None>

Min Conc: 0

⁶³Cu [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	162.23	0.0017	P	7.6
2	☐	2.000	2.041	3418.22	0.0358	P	2.4
3	☐	100.000	106.336	175399.10	1.7802	P	0.6
4	☐	250.000	264.545	444124.44	4.4263	P	1.5
5	☐	500.000	526.194	895576.63	8.8025	P	1.1
6	☐	1000.000	1014.414	1731889.09	16.9683	A	1.7
7	☐	2000.000	1984.110	3533542.34	33.1869	A	1.4
8	☐			8578.22	0.0865	P	2.6

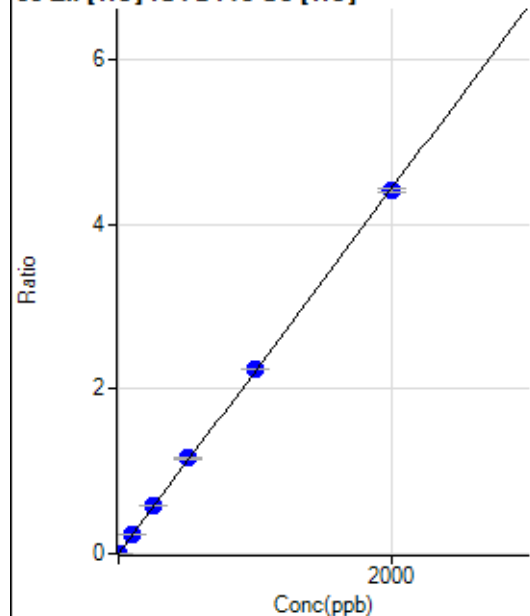
$$y = 0.0167 * x + 0.0017$$

$$R = 0.9999$$

$$DL = 0.02303$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	80.00	0.0008	P	10.4
2	☐	5.000	1.968	495.57	0.0052	P	7.6
3	☐	100.000	109.180	23895.78	0.2425	P	1.1
4	☐	250.000	264.563	58849.39	0.5865	P	1.0
5	☐	500.000	523.246	117941.55	1.1591	P	1.0
6	☐	1000.000	1008.212	227882.33	2.2326	P	0.1
7	☐	2000.000	1987.811	468616.97	4.4011	P	1.0
8	☐			6589.37	0.0664	P	1.9

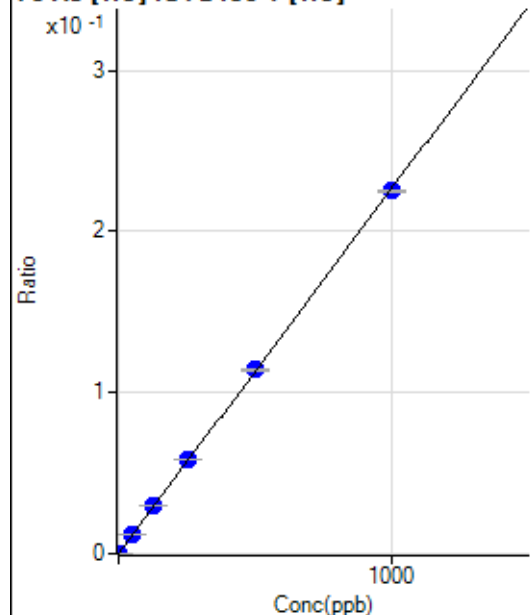
$$y = 0.0022 * x + 8.3597E-004$$

$$R = 0.9999$$

$$DL = 0.1173$$

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	8.00	0.0000	P	11.9
2	☐	1.000	0.907	149.69	0.0002	P	4.0
3	☐	50.000	52.307	8428.03	0.0119	P	1.7
4	☐	125.000	130.960	21522.80	0.0297	P	0.5
5	☐	250.000	259.210	43453.70	0.0587	P	0.7
6	☐	500.000	504.996	84669.37	0.1143	P	0.8
7	☐	1000.000	994.339	175341.77	0.2251	P	0.4
8	☐			89.34	0.0001	P	13.4

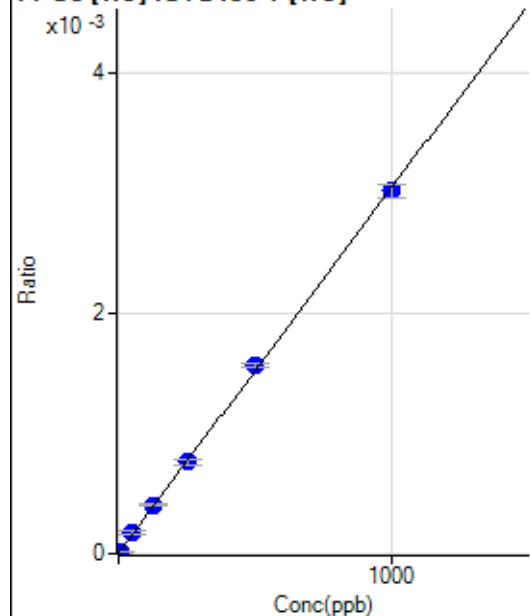
$$y = 2.2635E-004 * x + 1.1420E-005$$

$$R = 0.9999$$

$$DL = 0.01804$$

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	3.33	0.0000	P	173.2
2	☐	5.000	4.795	13.33	0.0000	P	25.4
3	☐	50.000	56.016	124.44	0.0002	P	15.0
4	☐	125.000	131.446	293.34	0.0004	P	4.9
5	☐	250.000	248.851	563.35	0.0008	P	5.5
6	☐	500.000	514.877	1162.28	0.0016	P	2.2
7	☐	1000.000	991.743	2351.34	0.0030	P	3.8
8	☐			3.33	0.0000	P	100.5

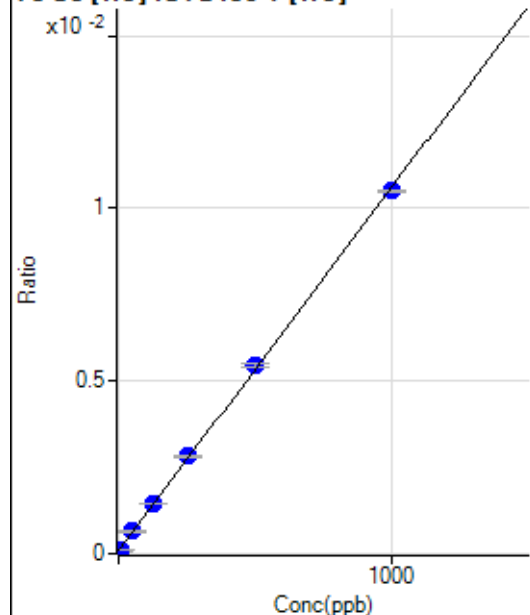
$$y = 3.0383E-006 * x + 4.7435E-006$$

$$R = 0.9998$$

$$DL = 8.112$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	59.34	0.0001	P	3.6
2	☐	5.000	4.875	94.01	0.0001	P	3.5
3	☐	50.000	53.488	460.39	0.0006	P	6.6
4	☐	125.000	131.444	1065.15	0.0015	P	1.1
5	☐	250.000	261.542	2100.04	0.0028	P	1.9
6	☐	500.000	510.139	4037.32	0.0055	P	2.7
7	☐	1000.000	991.066	8187.88	0.0105	P	0.4
8	☐			75.01	0.0001	P	9.8

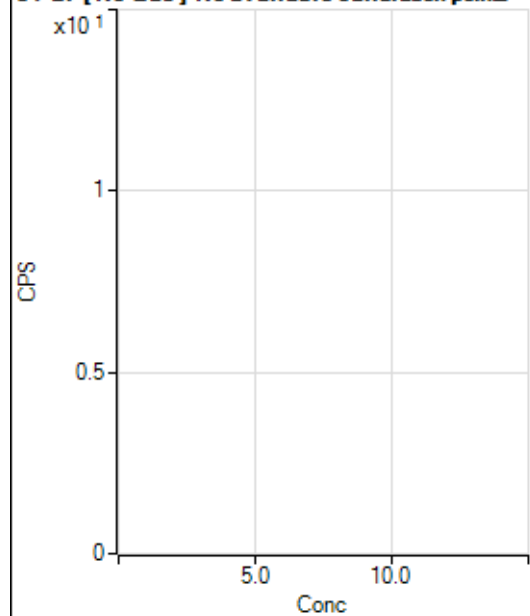
$$y = 1.0520E-005 * x + 8.4747E-005$$

$$R = 0.9998$$

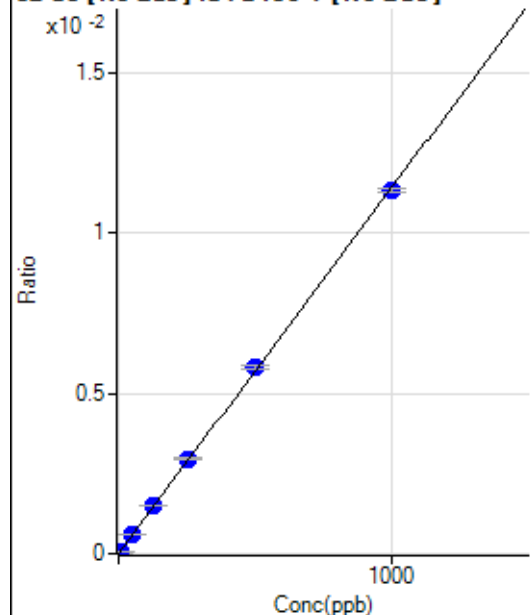
$$DL = 0.8757$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2814.24		P	3.8
2	☐			2811.48		P	1.4
3	☐			2919.83		P	3.3
4	☐			2644.77		P	6.0
5	☐			2928.16		P	5.1
6	☐			2855.94		P	3.6
7	☐			3181.00		P	5.4
8	☐			3325.50		P	8.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-47.66	0.0000	P	-153.
2	☐	5.000	6.002	299.15	0.0001	P	12.7
3	☐	50.000	52.604	3068.93	0.0006	P	2.5
4	☐	125.000	132.634	7861.21	0.0015	P	1.9
5	☐	250.000	258.148	15921.58	0.0029	P	2.3
6	☐	500.000	509.368	31347.21	0.0058	P	1.4
7	☐	1000.000	992.189	64754.63	0.0113	P	1.0
8	☐			79.84	0.0000	P	23.5

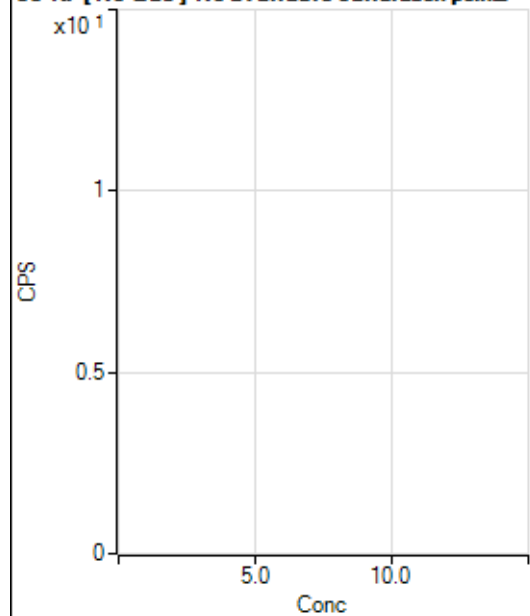
$$y = 1.1416E-005 * x - 9.5618E-006$$

R = 0.9999

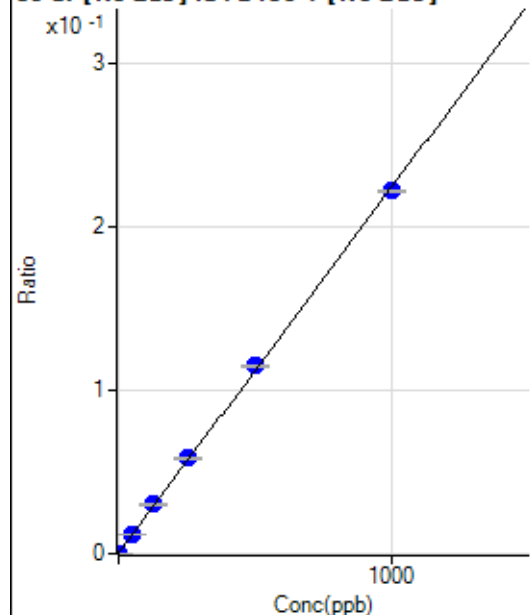
DL = 3.855

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			915.60		P	9.9
2	☐			914.48		P	4.9
3	☐			915.59		P	4.6
4	☐			871.15		P	1.5
5	☐			933.37		P	5.1
6	☐			883.37		P	5.0
7	☐			908.93		P	6.8
8	☐			866.70		P	2.5

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1263.98	0.0003	P	5.5
2	☐	1.000	1.087	2505.84	0.0005	P	7.9
3	☐	50.000	52.246	61946.24	0.0119	P	1.5
4	☐	125.000	133.039	156739.82	0.0300	P	1.4
5	☐	250.000	259.295	315591.65	0.0582	P	0.8
6	☐	500.000	512.369	619840.70	0.1148	P	1.5
7	☐	1000.000	990.374	1268275.92	0.2216	P	0.4
8	☐			3833.97	0.0007	P	8.1

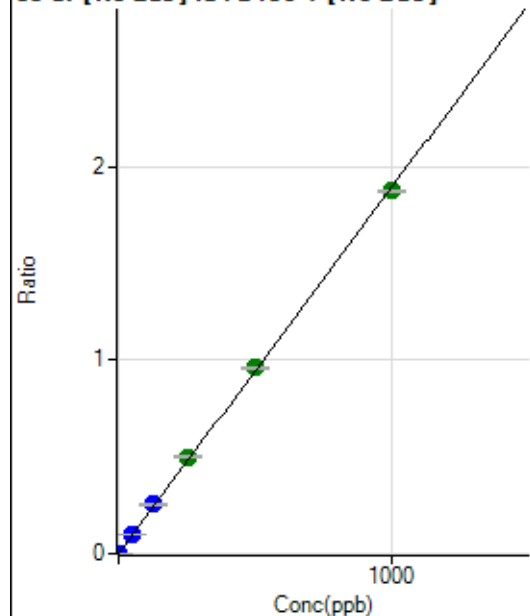
$$y = 2.2355E-004 * x + 2.5080E-004$$

$$R = 0.9998$$

$$DL = 0.1866$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	55.56	0.0000	P	31.3
2	☐	1.000	0.992	9578.54	0.0019	P	2.3
3	☐	50.000	52.942	520049.16	0.1002	P	1.1
4	☐	125.000	134.747	1331987.92	0.2549	P	1.3
5	☐	250.000	263.514	2702064.19	0.4985	A	1.9
6	☐	500.000	507.636	5185442.91	0.9603	A	1.4
7	☐	1000.000	991.438	10731413.00	1.8755	A	0.4
8	☐			20766.01	0.0039	P	0.8

$$y = 0.0019 * x + 1.1028E-005$$

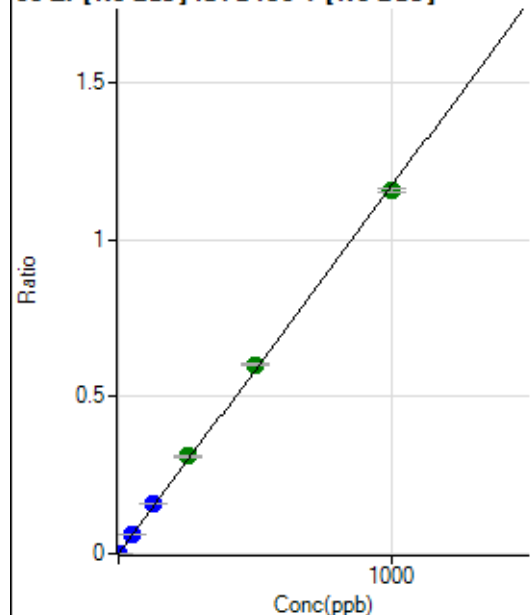
$$R = 0.9998$$

$$DL = 0.005473$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	250.01	0.0000	P	14.4
2	☐	1.000	0.962	5965.34	0.0012	P	1.0
3	☐	50.000	53.280	323894.44	0.0624	P	1.0
4	☐	125.000	136.547	835041.86	0.1598	P	0.4
5	☐	250.000	265.610	1684341.78	0.3108	A	1.7
6	☐	500.000	514.520	3250773.29	0.6020	A	0.5
7	☐	1000.000	987.230	6608727.54	1.1550	A	0.9
8	☐			1844.62	0.0003	P	4.3

$$y = 0.0012 * x + 4.9568E-005$$

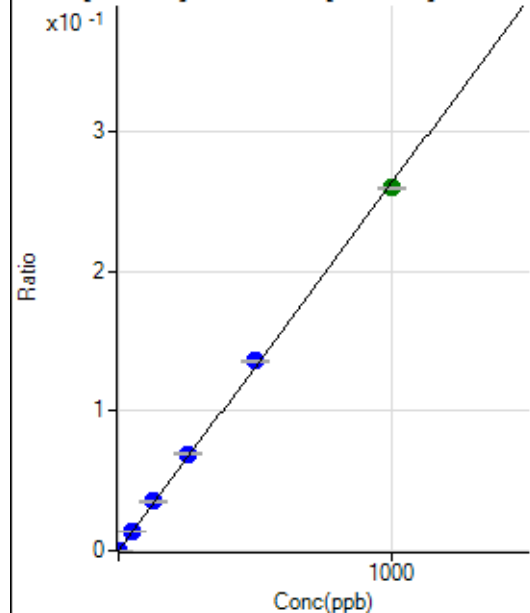
$$R = 0.9997$$

$$DL = 0.01836$$

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	61.11	0.0000	P	21.1
2	☐	1.000	0.923	1294.54	0.0003	P	3.4
3	☐	50.000	52.558	71877.51	0.0138	P	1.3
4	☐	125.000	134.064	184423.73	0.0353	P	1.1
5	☐	250.000	262.964	375082.30	0.0692	P	2.1
6	☐	500.000	516.355	733863.76	0.1359	P	1.2
7	☐	1000.000	987.321	1486823.24	0.2598	A	0.8
8	☐			383.35	0.0001	P	12.8

$$y = 2.6317E-004 * x + 1.2131E-005$$

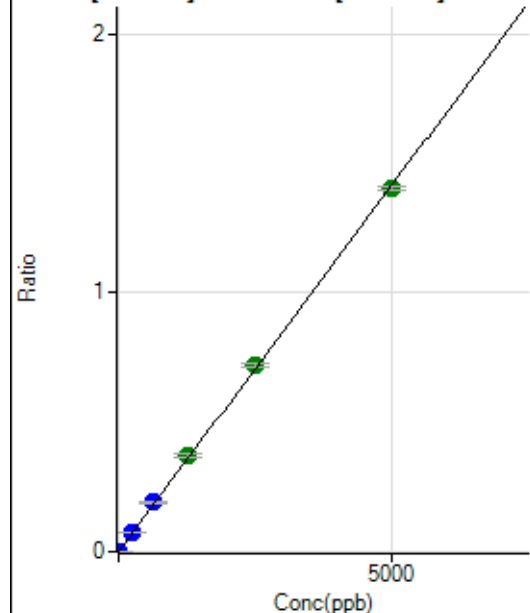
$$R = 0.9997$$

$$DL = 0.02912$$

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	108.34	0.0000	P	20.8
2	☐	10.000	5.015	7304.90	0.0014	P	1.0
3	☐	250.000	267.374	392583.33	0.0756	P	0.3
4	☐	625.000	673.004	994253.74	0.1903	P	1.4
5	☐	1250.000	1312.766	2011091.32	0.3711	A	2.6
6	☐	2500.000	2541.614	3879593.71	0.7185	A	2.4
7	☐	5000.000	4956.642	8017877.00	1.4012	A	0.9
8	☐			3814.51	0.0007	P	2.6

$$y = 2.8270E-004 * x + 2.1507E-005$$

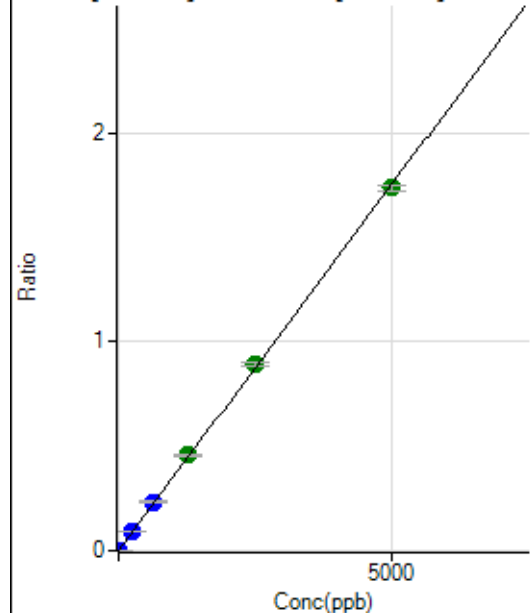
$$R = 0.9998$$

$$DL = 0.04747$$

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	52.78	0.0000	P	73.2
2	☐	10.000	5.251	9392.31	0.0019	P	2.1
3	☐	250.000	265.979	483886.27	0.0932	P	1.5
4	☐	625.000	667.449	1221922.50	0.2338	P	1.0
5	☐	1250.000	1307.192	2482016.76	0.4580	A	1.1
6	☐	2500.000	2545.758	4815869.12	0.8919	A	1.7
7	☐	5000.000	4956.727	9935866.28	1.7365	A	1.5
8	☐			6084.84	0.0011	P	0.7

$$y = 3.5034E-004 * x + 1.0527E-005$$

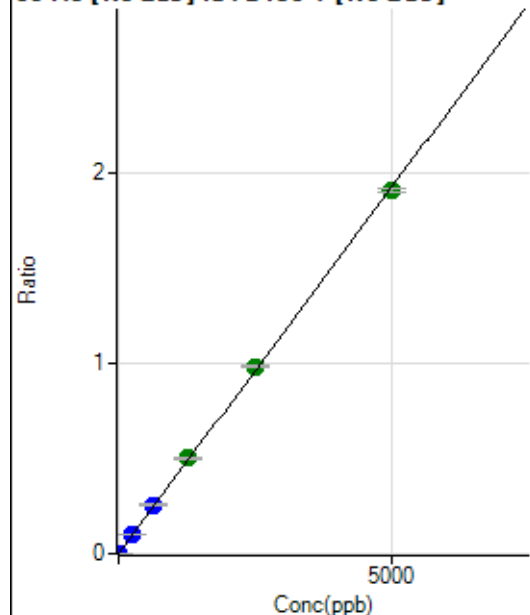
$$R = 0.9998$$

$$DL = 0.06597$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	97.23	0.0000	P	19.2
2	☐	10.000	5.168	10192.88	0.0020	P	3.1
3	☐	250.000	267.007	533571.88	0.1028	P	0.5
4	☐	625.000	668.927	1344989.17	0.2574	P	1.7
5	☐	1250.000	1309.497	2730527.28	0.5039	A	2.0
6	☐	2500.000	2550.554	5299770.56	0.9814	A	0.9
7	☐	5000.000	4953.517	10906106.41	1.9061	A	1.2
8	☐			7196.50	0.0013	P	2.9

$$y = 3.8479E-004 * x + 1.9321E-005$$

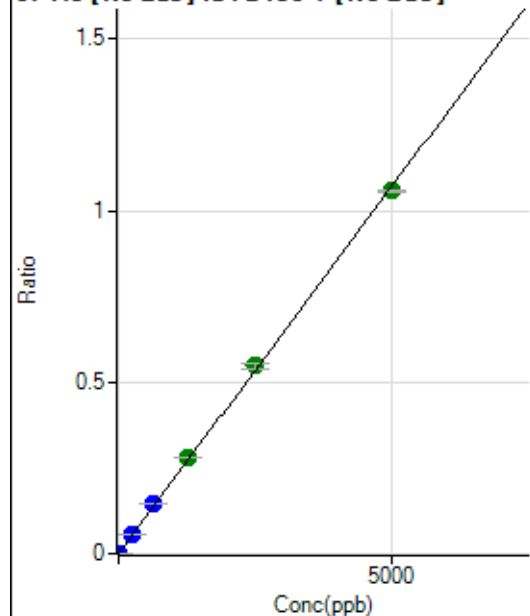
$$R = 0.9998$$

$$DL = 0.02891$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16.67	0.0000	P	51.1
2	☐	10.000	5.291	5762.47	0.0011	P	2.8
3	☐	250.000	267.407	297077.74	0.0572	P	0.7
4	☐	625.000	676.334	756014.36	0.1447	P	2.0
5	☐	1250.000	1314.065	1523722.38	0.2811	A	1.2
6	☐	2500.000	2563.431	2961019.31	0.5484	A	2.8
7	☐	5000.000	4944.990	6053473.14	1.0579	A	0.5
8	☐			3678.37	0.0007	P	1.6

$$y = 2.1394E-004 * x + 3.3215E-006$$

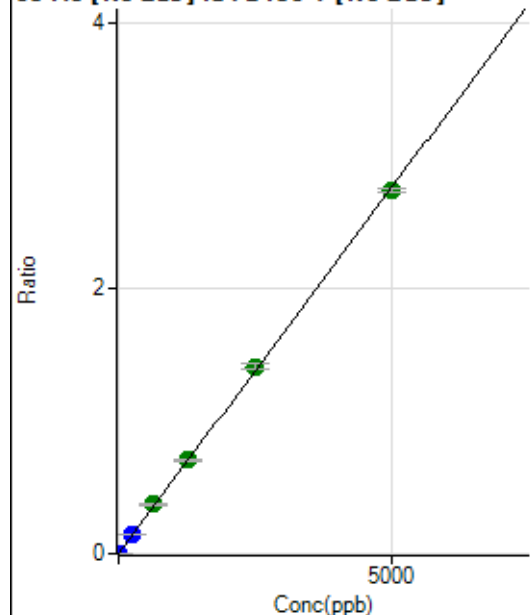
$$R = 0.9998$$

$$DL = 0.02382$$

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	36.11	0.0000	P	27.5
2	☐	10.000	5.290	14847.15	0.0029	P	2.0
3	☐	250.000	267.625	766523.34	0.1476	P	1.2
4	☐	625.000	671.379	1935522.31	0.3703	A	1.0
5	☐	1250.000	1283.796	3837709.68	0.7082	A	1.6
6	☐	2500.000	2553.973	7606252.69	1.4088	A	3.1
7	☐	5000.000	4957.895	15648384.03	2.7348	A	1.0
8	☐			8794.65	0.0016	P	2.8

$$y = 5.5161\text{E-}004 * x + 7.1793\text{E-}006$$

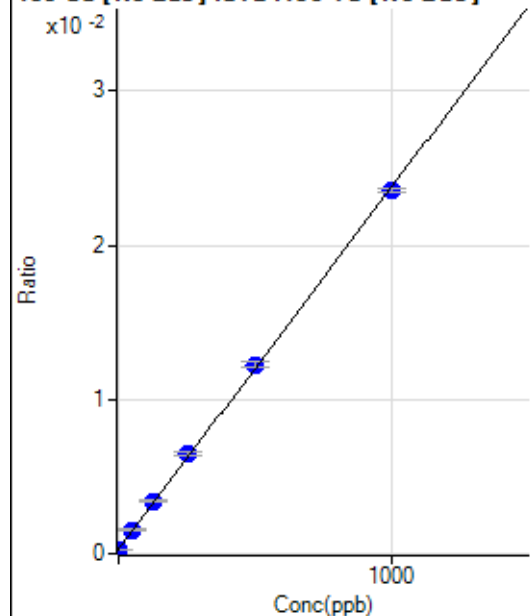
$$R = 0.9999$$

$$DL = 0.01075$$

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	994.51	0.0003	P	5.3
2	☐	1.000	0.982	1088.96	0.0003	P	3.7
3	☐	50.000	52.556	5690.22	0.0015	P	7.5
4	☐	125.000	133.799	12797.91	0.0034	P	3.5
5	☐	250.000	264.961	24697.67	0.0065	P	3.4
6	☐	500.000	510.321	47671.94	0.0123	P	2.9
7	☐	1000.000	989.872	95141.51	0.0235	P	1.0
8	☐			1063.96	0.0003	P	8.6

$$y = 2.3473\text{E-}005 * x + 2.7960\text{E-}004$$

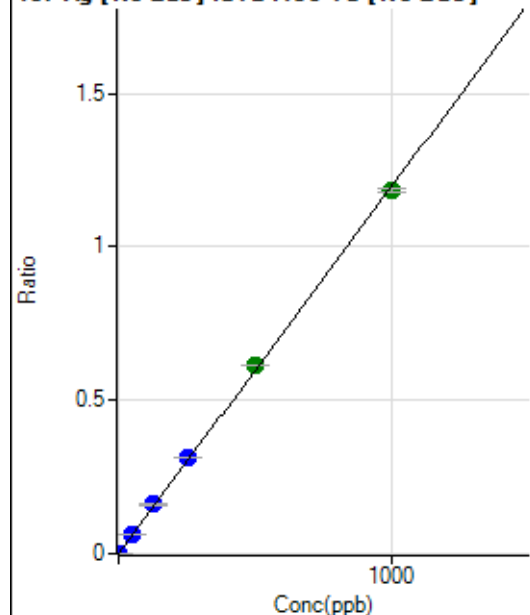
$$R = 0.9998$$

$$DL = 1.897$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	58.1
2	☐	1.000	1.036	4484.18	0.0012	P	1.3
3	☐	50.000	52.413	235779.49	0.0627	P	1.2
4	☐	125.000	134.013	599670.53	0.1603	P	0.7
5	☐	250.000	263.491	1197946.43	0.3151	P	0.7
6	☐	500.000	513.476	2388356.15	0.6140	A	0.6
7	☐	1000.000	988.642	4783426.41	1.1822	A	1.0
8	☐			1300.10	0.0004	P	13.5

$$y = 0.0012 * x + 7.0370E-006$$

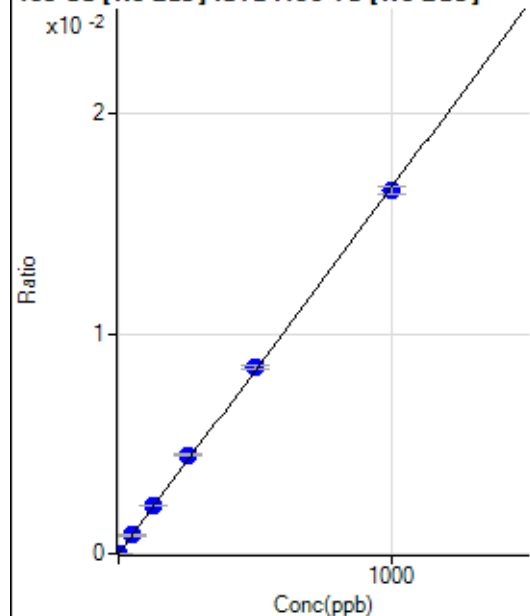
$$R = 0.9997$$

$$DL = 0.01026$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.55	0.0000	P	86.6
2	☐	1.000	0.881	58.34	0.0000	P	33.6
3	☐	50.000	50.504	3168.46	0.0008	P	5.2
4	☐	125.000	131.762	8215.04	0.0022	P	1.1
5	☐	250.000	269.544	17064.85	0.0045	P	2.2
6	☐	500.000	507.246	32854.45	0.0084	P	2.0
7	☐	1000.000	990.621	66742.21	0.0165	P	2.1
8	☐			20.83	0.0000	P	89.1

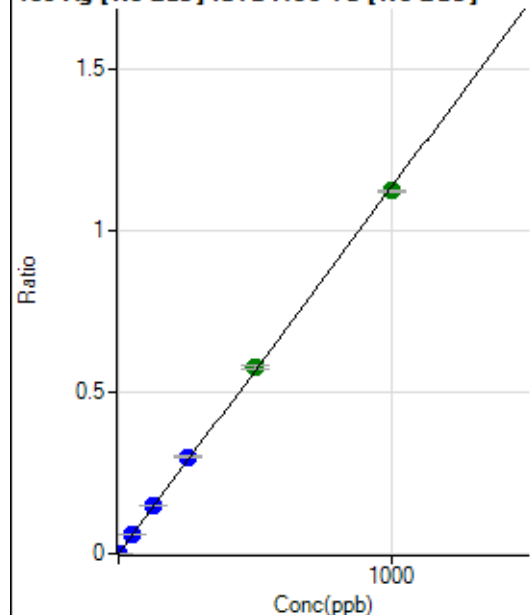
$$y = 1.6651E-005 * x + 1.5709E-006$$

$$R = 0.9997$$

$$DL = 0.2451$$

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	22.22	0.0000	P	21.4
2	☐	1.000	0.960	3942.34	0.0011	P	2.4
3	☐	50.000	51.928	221601.89	0.0589	P	1.3
4	☐	125.000	133.318	565932.67	0.1512	P	0.4
5	☐	250.000	264.646	1141413.01	0.3002	P	0.5
6	☐	500.000	510.449	2252073.55	0.5791	A	2.1
7	☐	1000.000	989.978	4543900.92	1.1230	A	0.8
8	☐			1058.41	0.0003	P	8.0

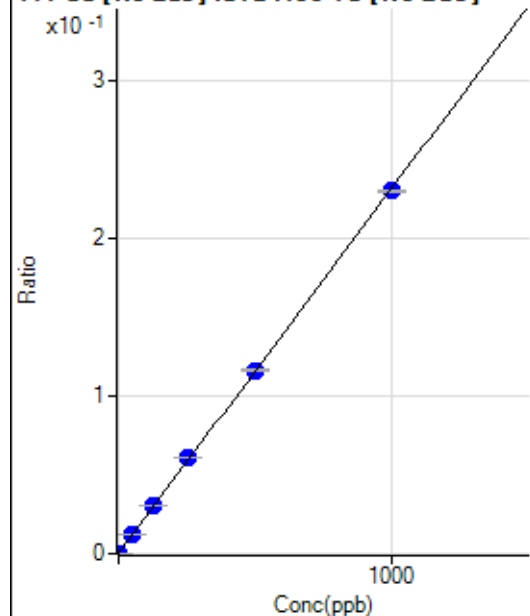
$$y = 0.0011 * x + 6.2431E-006$$

$$R = 0.9998$$

$$DL = 0.00353$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	710.33	0.0002	P	5.4
2	☐	1.000	0.984	1536.75	0.0004	P	4.6
3	☐	50.000	52.588	46469.57	0.0124	P	1.4
4	☐	125.000	132.607	115432.42	0.0308	P	1.5
5	☐	250.000	264.456	233150.03	0.0613	P	0.3
6	☐	500.000	502.547	452574.13	0.1164	P	1.0
7	☐	1000.000	994.032	930391.70	0.2299	P	0.6
8	☐			996.87	0.0003	P	7.8

$$y = 2.3113E-004 * x + 1.9971E-004$$

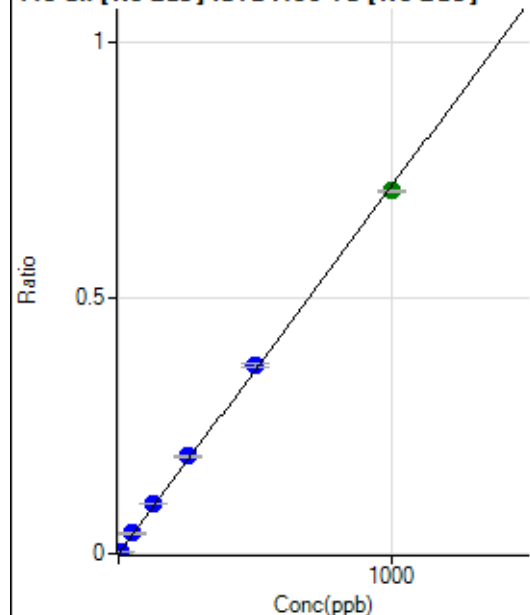
$$R = 0.9999$$

$$DL = 0.1396$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	227.79	0.0001	P	32.5
2	☐	5.000	5.056	13292.91	0.0037	P	1.9
3	☐	50.000	55.029	148822.27	0.0396	P	2.4
4	☐	125.000	134.386	361207.80	0.0965	P	0.7
5	☐	250.000	266.010	726129.03	0.1910	P	1.7
6	☐	500.000	513.868	1434969.86	0.3689	P	1.4
7	☐	1000.000	987.639	2868818.01	0.7090	A	0.7
8	☐			1497.34	0.0004	P	5.4

$$y = 7.1786\text{E-}004 * x + 6.4174\text{E-}005$$

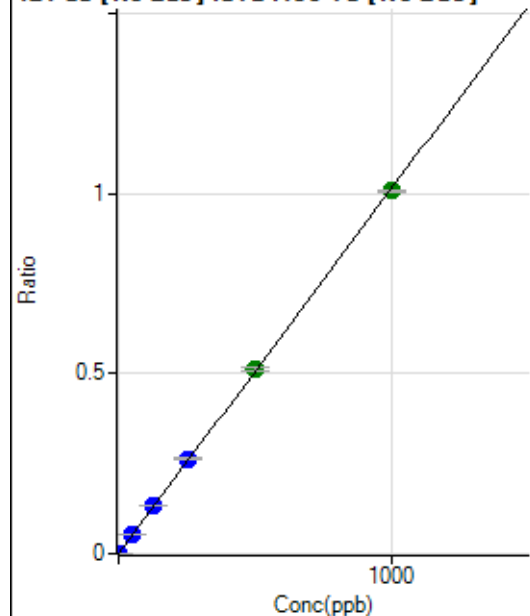
$$R = 0.9997$$

$$DL = 0.08708$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.44	0.0000	P	50.1
2	☐	2.000	1.868	6843.55	0.0019	P	1.6
3	☐	50.000	51.200	195548.34	0.0520	P	1.2
4	☐	125.000	131.403	499218.36	0.1334	P	0.9
5	☐	250.000	259.654	1002204.93	0.2636	P	1.1
6	☐	500.000	506.326	1999299.37	0.5141	A	2.1
7	☐	1000.000	993.564	4081428.48	1.0087	A	0.6
8	☐			2389.17	0.0006	P	2.3

$$y = 0.0010 * x + 5.4849\text{E-}006$$

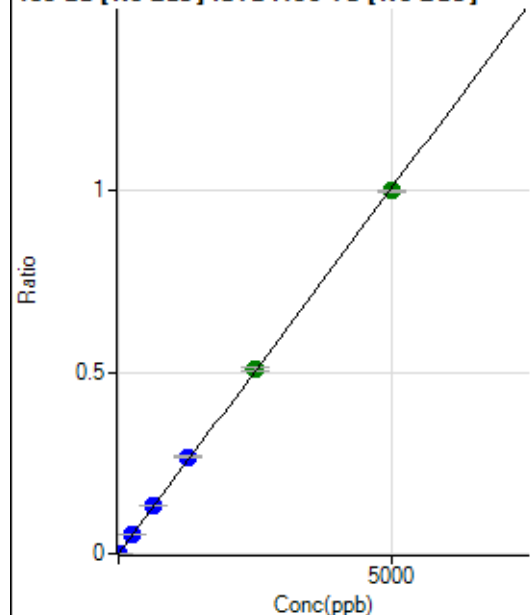
$$R = 0.9999$$

$$DL = 0.008122$$

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	49.1
2	☐	10.000	10.004	7257.70	0.0020	P	3.1
3	☐	250.000	259.485	196350.07	0.0522	P	1.4
4	☐	625.000	661.835	498172.87	0.1331	P	0.2
5	☐	1250.000	1325.340	1013516.31	0.2666	P	1.0
6	☐	2500.000	2524.911	1975188.71	0.5079	A	2.9
7	☐	5000.000	4963.631	4039786.72	0.9985	A	0.8
8	☐			7232.67	0.0020	P	3.6

$$y = 2.0115E-004 * x + 4.6712E-006$$

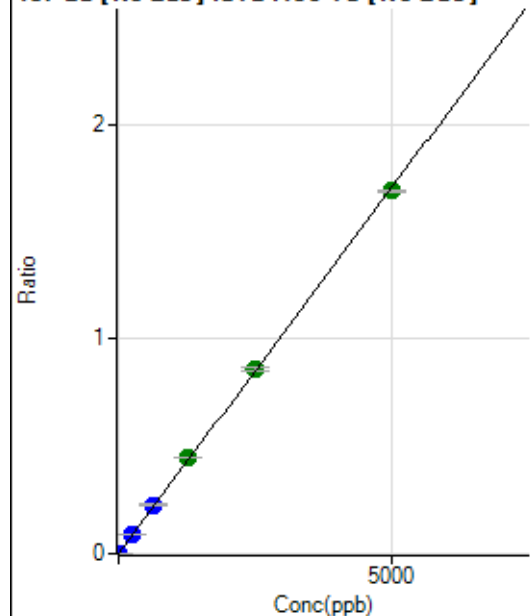
$$R = 0.9998$$

$$DL = 0.0342$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.55	0.0000	P	86.6
2	☐	10.000	10.113	12394.87	0.0034	P	4.0
3	☐	250.000	263.678	337721.97	0.0898	P	1.1
4	☐	625.000	669.630	853174.87	0.2280	P	1.2
5	☐	1250.000	1317.925	1706054.59	0.4488	A	1.0
6	☐	2500.000	2534.594	3356532.93	0.8630	A	2.0
7	☐	5000.000	4959.459	6832802.32	1.6887	A	0.3
8	☐			12214.19	0.0033	P	4.1

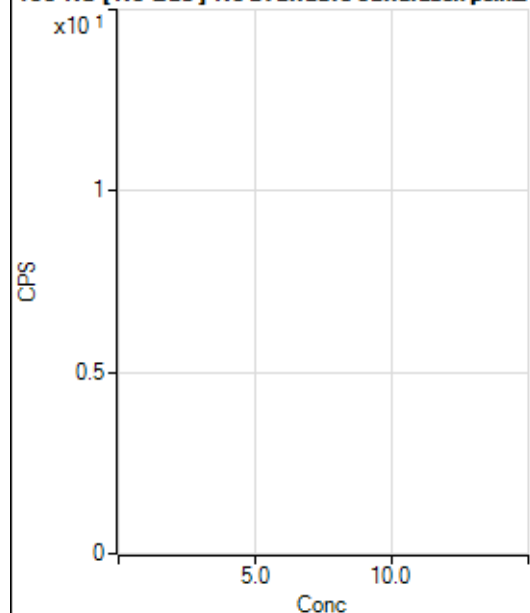
$$y = 3.4050E-004 * x + 1.5709E-006$$

$$R = 0.9998$$

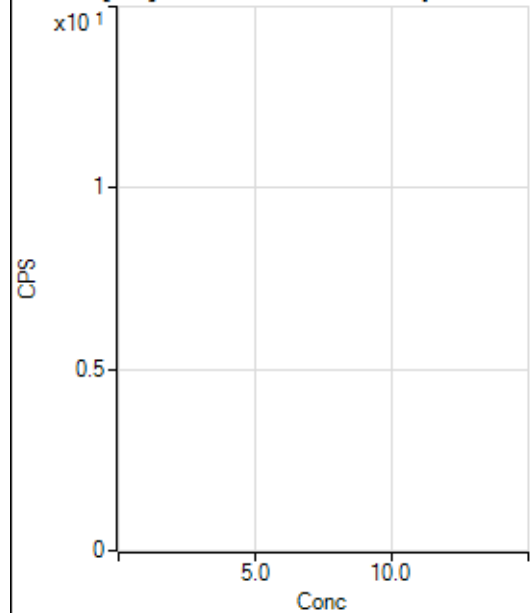
$$DL = 0.01199$$

Weight: <None>

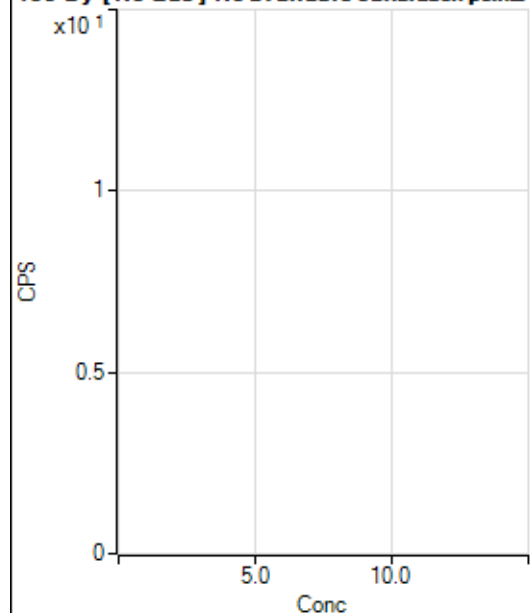
Min Conc: 0

150 Nd [No Gas] No available calibration points

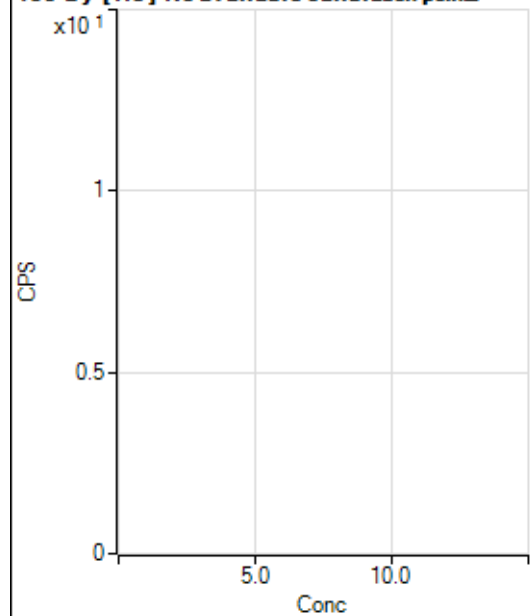
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6.67		P	100.0
2	☐			6.67		P	100.0
3	☐			22.22		P	17.3
4	☐			13.33		P	50.0
5	☐			35.55		P	65.9
6	☐			68.89		P	55.0
7	☐			122.23		P	50.4
8	☐			31.11		P	61.9

150 Nd [He] No available calibration points

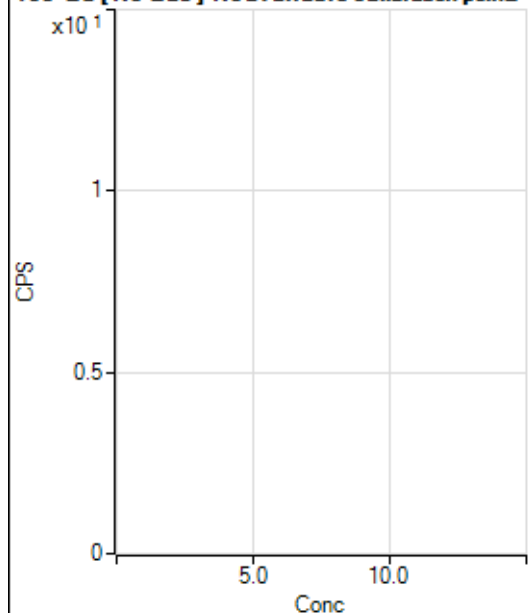
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			0.00		P	
3	☐			0.00		P	
4	☐			1.11		P	173.2
5	☐			4.44		P	114.6
6	☐			12.22		P	56.8
7	☐			15.56		P	32.7
8	☐			16.67		P	20.0

156 Dy [No Gas] No available calibration points

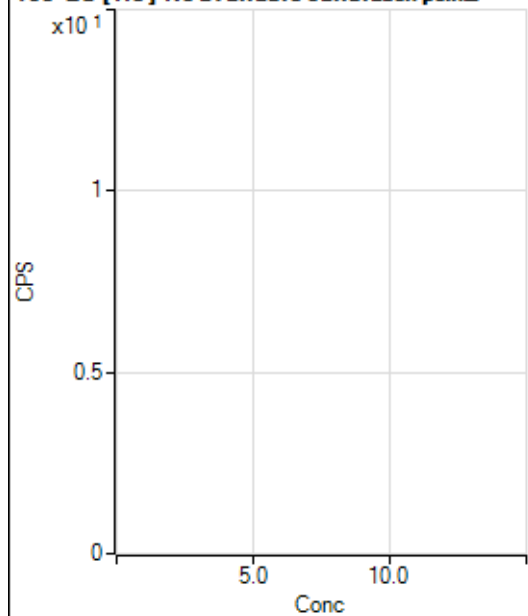
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.78		P	173.2
2	☐			5.56		P	173.2
3	☐			5.56		P	173.2
4	☐			13.89		P	124.9
5	☐			36.11		P	26.7
6	☐			44.44		P	60.3
7	☐			72.23		P	13.3
8	☐			166.67		P	5.0

156 Dy [He] No available calibration points

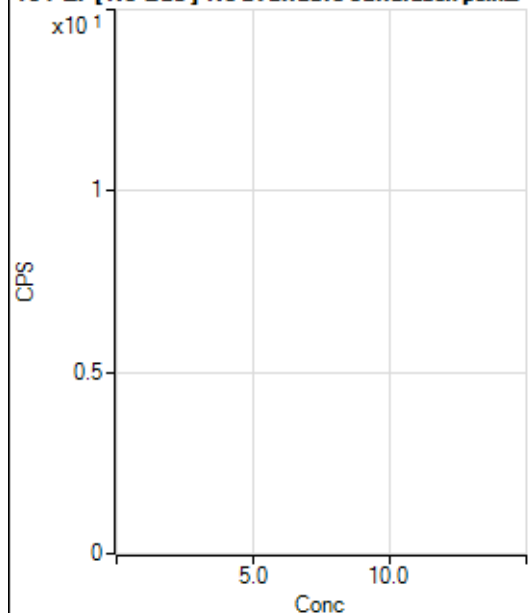
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.44		P	173.2
2	☐			5.55		P	124.9
3	☐			4.45		P	86.6
4	☐			5.56		P	91.6
5	☐			4.45		P	86.6
6	☐			23.33		P	37.8
7	☐			34.45		P	31.1
8	☐			110.00		P	18.9

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

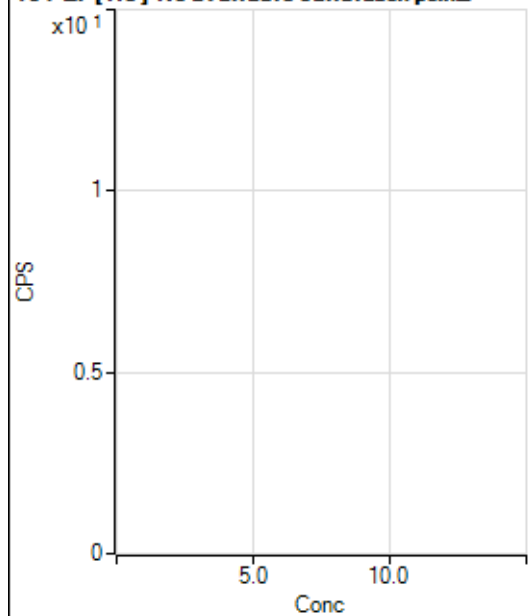
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			27.78		P	45.8
2	☐			41.67		P	40.0
3	☐			19.44		P	89.2
4	☐			27.78		P	62.5
5	☐			38.89		P	12.4
6	☐			63.89		P	39.8
7	☐			50.00		P	16.7
8	☐			219.45		P	4.4

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			17.78		P	10.8
2	☐			7.78		P	99.0
3	☐			23.33		P	24.7
4	☐			21.11		P	9.1
5	☐			16.67		P	52.9
6	☐			30.00		P	38.5
7	☐			37.78		P	10.2
8	☐			162.23		P	7.8

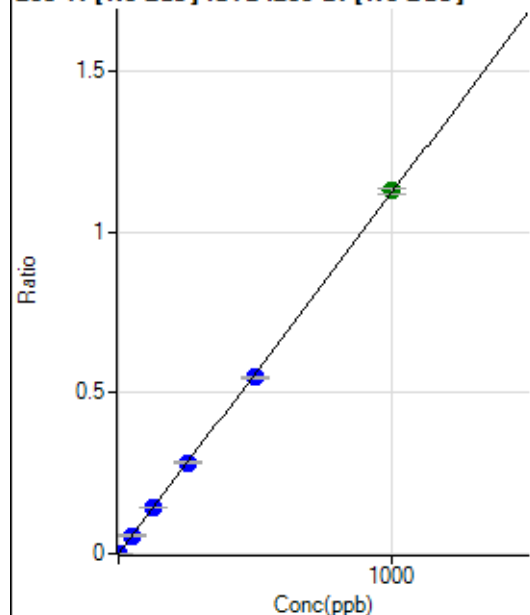
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			19.44		P	49.5
2	☐			27.78		P	17.3
3	☐			16.67		P	100.0
4	☐			19.44		P	65.5
5	☐			22.22		P	57.3
6	☐			19.44		P	65.5
7	☐			50.00		P	28.9
8	☐			36.11		P	66.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.33		P	66.1
2	☐			12.22		P	41.7
3	☐			7.78		P	24.7
4	☐			11.11		P	62.5
5	☐			11.11		P	45.8
6	☐			11.11		P	75.5
7	☐			23.34		P	24.7
8	☐			10.00		P	33.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0000	P	47.1
2	☐	1.000	0.954	2047.45	0.0011	P	4.3
3	☐	50.000	50.508	109618.95	0.0567	P	2.1
4	☐	125.000	129.326	276458.20	0.1451	P	1.5
5	☐	250.000	251.829	558776.05	0.2825	P	1.5
6	☐	500.000	487.539	1101378.18	0.5470	P	0.4
7	☐	1000.000	1005.207	2290828.74	1.1277	A	1.8
8	☐			1047.30	0.0006	P	14.0

$$y = 0.0011 * x + 1.5129E-005$$

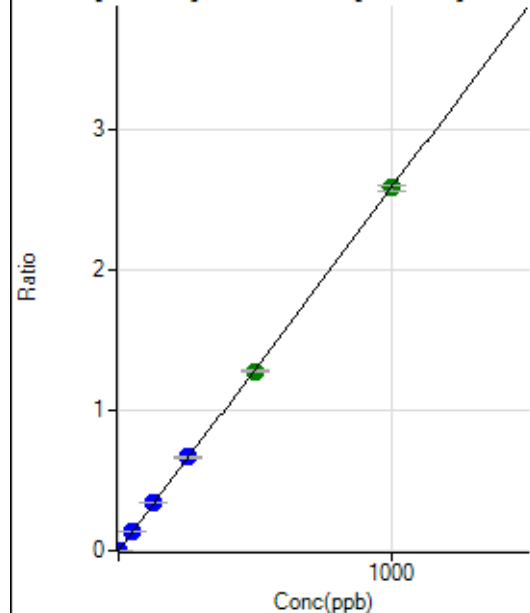
$$R = 0.9999$$

$$DL = 0.01904$$

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	50.00	0.0000	P	1.4
2	☐	1.000	0.994	4903.84	0.0026	P	1.8
3	☐	50.000	51.800	259602.74	0.1342	P	0.6
4	☐	125.000	131.471	648912.03	0.3406	P	0.5
5	☐	250.000	257.950	1321546.70	0.6682	P	1.8
6	☐	500.000	495.213	2582986.93	1.2828	A	0.7
7	☐	1000.000	999.507	5259503.07	2.5890	A	1.4
8	☐			2491.98	0.0014	P	12.3

$$y = 0.0026 * x + 2.7120E-005$$

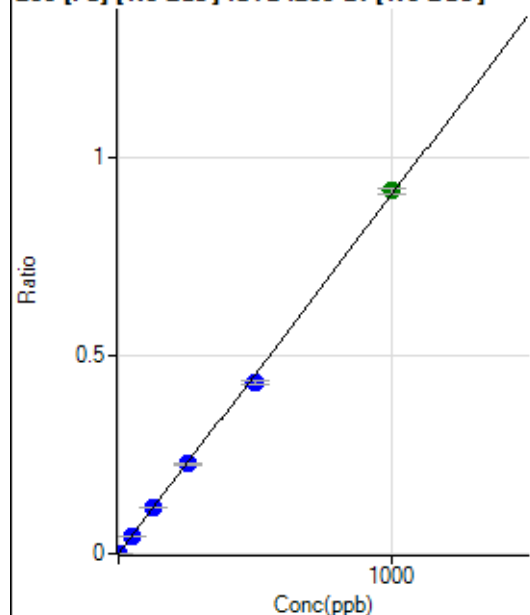
$$R = 0.9999$$

$$DL = 0.0004273$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	98.15	0.0001	P	27.1
2	☐	1.000	0.930	1690.88	0.0009	P	3.6
3	☐	50.000	50.360	88449.34	0.0457	P	1.0
4	☐	125.000	129.517	223908.58	0.1175	P	0.3
5	☐	250.000	250.540	449489.81	0.2273	P	1.9
6	☐	500.000	476.825	870883.61	0.4325	P	1.1
7	☐	1000.000	1010.870	1862488.87	0.9168	A	1.5
8	☐			7465.27	0.0041	P	4.5

$$y = 9.0690E-004 * x + 5.3100E-005$$

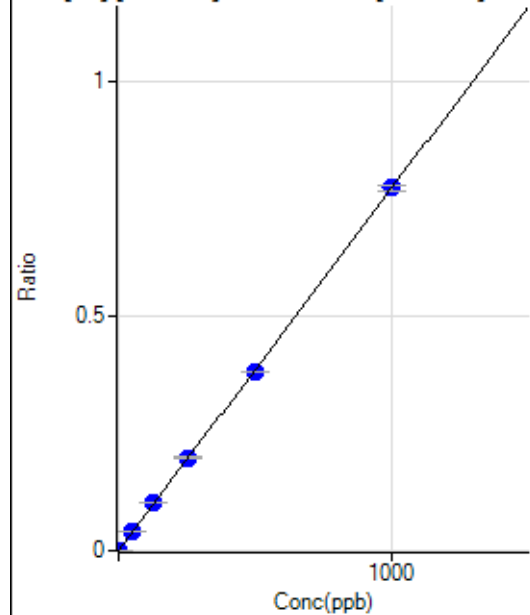
$$R = 0.9996$$

$$DL = 0.04767$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	90.74	0.0000	P	20.0
2	☐	1.000	0.959	1489.00	0.0008	P	6.7
3	☐	50.000	51.225	76593.56	0.0396	P	1.1
4	☐	125.000	131.344	193308.12	0.1015	P	0.4
5	☐	250.000	255.140	389685.89	0.1970	P	2.4
6	☐	500.000	492.892	766380.50	0.3806	P	0.3
7	☐	1000.000	1001.415	1570745.56	0.7732	P	1.4
8	☐			7011.28	0.0038	P	3.0

$$y = 7.7206E-004 * x + 4.9239E-005$$

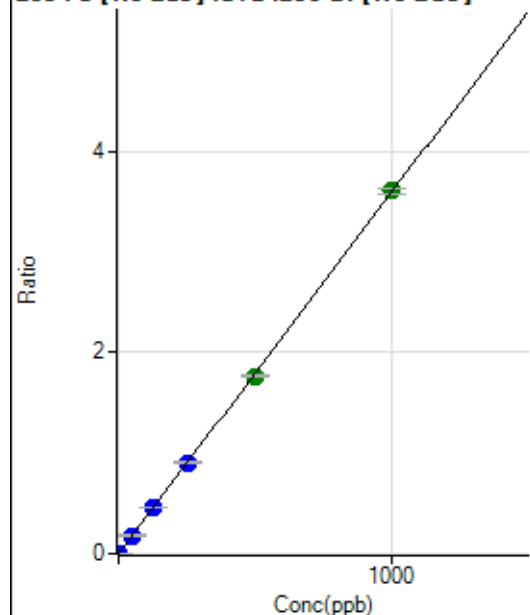
$$R = 0.9999$$

$$DL = 0.0382$$

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	364.82	0.0002	P	4.8
2	☐	1.000	0.963	6891.59	0.0037	P	3.8
3	☐	50.000	50.402	350184.26	0.1810	P	0.8
4	☐	125.000	129.221	883761.45	0.4638	P	0.3
5	☐	250.000	251.125	1782424.21	0.9012	P	2.2
6	☐	500.000	490.142	3541564.62	1.7588	A	0.9
7	☐	1000.000	1004.100	7319032.09	3.6028	A	1.5
8	☐			30972.48	0.0170	P	3.5

$$y = 0.0036 * x + 1.9783E-004$$

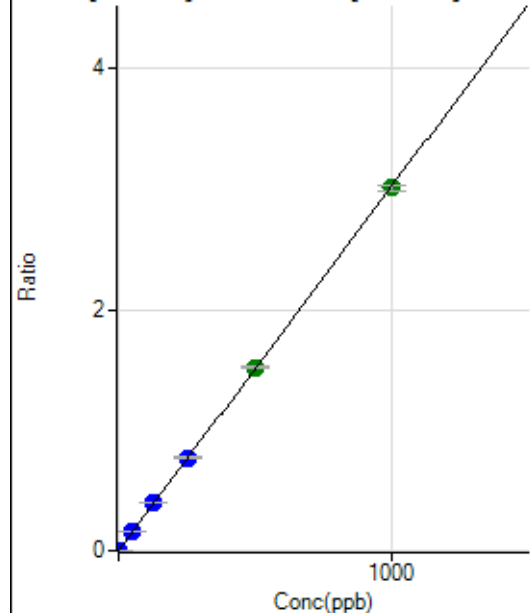
$$R = 0.9999$$

$$DL = 0.007988$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.78	0.0000	P	173.2
2	☐	1.000	0.900	5128.97	0.0027	P	3.1
3	☐	50.000	51.306	299795.16	0.1550	P	1.4
4	☐	125.000	131.368	756149.79	0.3969	P	0.6
5	☐	250.000	255.415	1525947.04	0.7716	P	1.1
6	☐	500.000	503.177	3060913.33	1.5201	A	0.7
7	☐	1000.000	996.197	6113695.14	3.0095	A	1.4
8	☐			775.04	0.0004	P	8.3

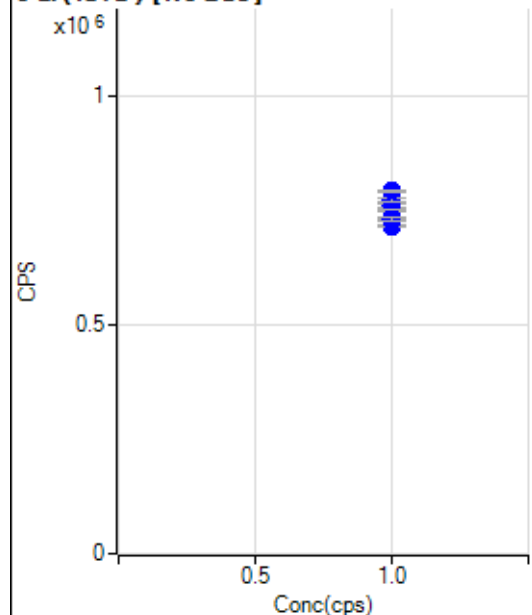
$$y = 0.0030 * x + 1.5076E-006$$

$$R = 1.0000$$

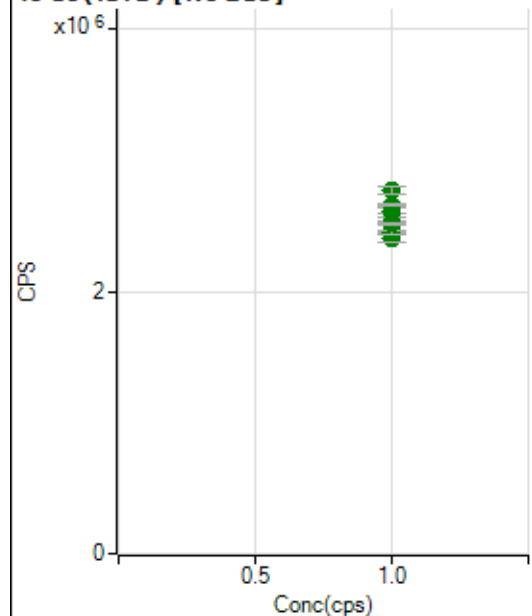
$$DL = 0.002593$$

Weight: <None>

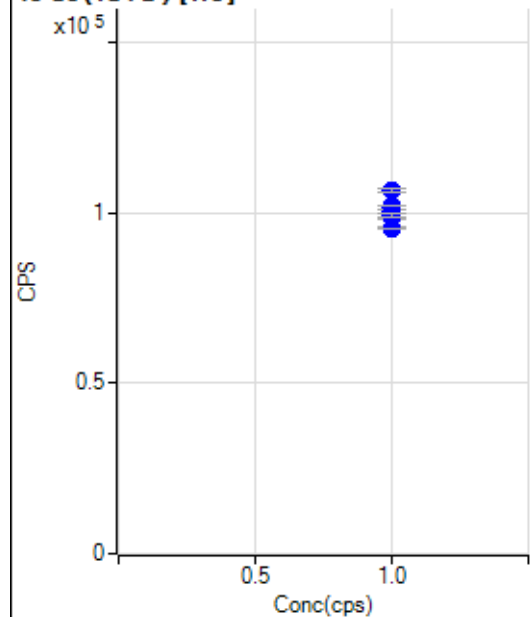
Min Conc: 0

6 Li (ISTD) [No Gas]

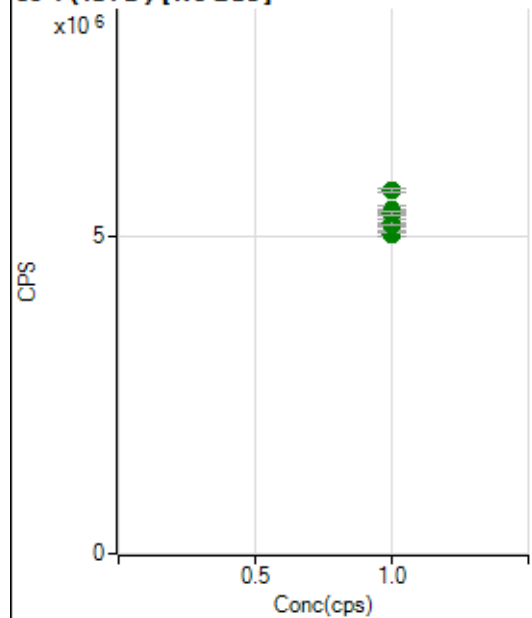
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		716392.38		P	0.5
2	☐	1.000		728568.62		P	0.8
3	☐	1.000		752511.49		P	0.8
4	☐	1.000		759196.79		P	1.7
5	☐	1.000		771429.47		P	1.6
6	☐	1.000		773321.43		P	1.4
7	☐	1.000		793072.24		P	0.2
8	☐	1.000		732353.28		P	0.9

45 Sc (ISTD) [No Gas]

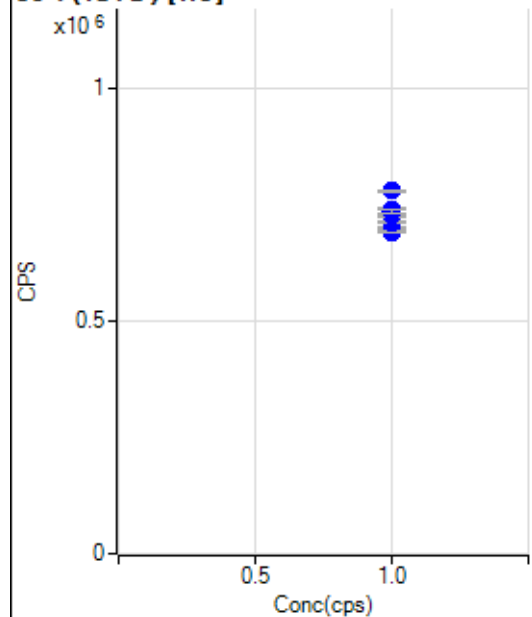
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2408012.36		A	3.0
2	☐	1.000		2450335.00		A	1.3
3	☐	1.000		2535343.14		A	0.4
4	☐	1.000		2561462.51		A	2.4
5	☐	1.000		2610249.20		A	2.8
6	☐	1.000		2662596.80		A	0.6
7	☐	1.000		2769011.25		A	1.9
8	☐	1.000		2523127.19		A	0.6

45 Sc (ISTD) [He]

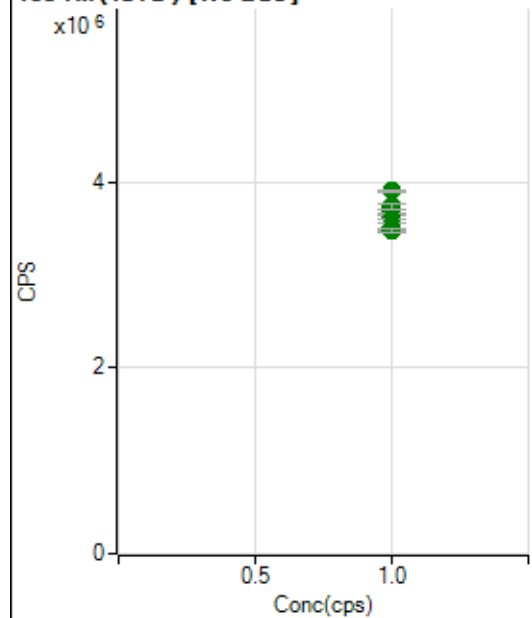
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		95649.19		P	0.9
2	☐	1.000		95402.98		P	0.5
3	☐	1.000		98528.25		P	0.5
4	☐	1.000		100348.55		P	1.2
5	☐	1.000		101745.86		P	1.2
6	☐	1.000		102068.35		P	0.2
7	☐	1.000		106483.06		P	1.0
8	☐	1.000		99166.06		P	1.1

89 Y (ISTD) [No Gas]

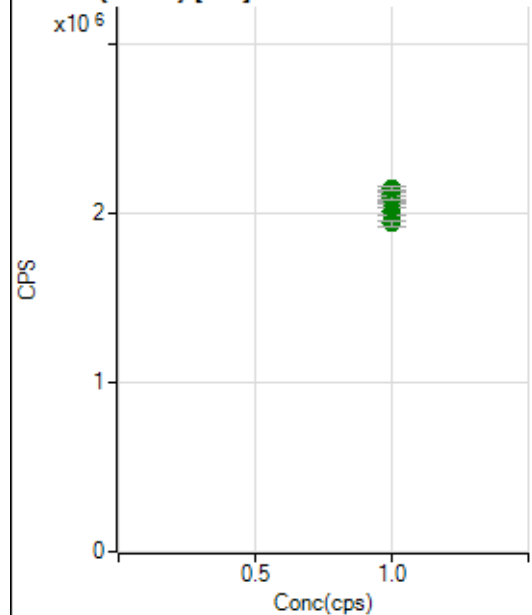
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5040397.08		A	1.3
2	☐	1.000		5076112.15		A	0.4
3	☐	1.000		5192519.30		A	1.2
4	☐	1.000		5225956.31		A	1.6
5	☐	1.000		5420414.78		A	2.2
6	☐	1.000		5400401.87		A	1.2
7	☐	1.000		5722199.91		A	1.0
8	☐	1.000		5374178.39		A	1.4

89 Y (ISTD) [He]

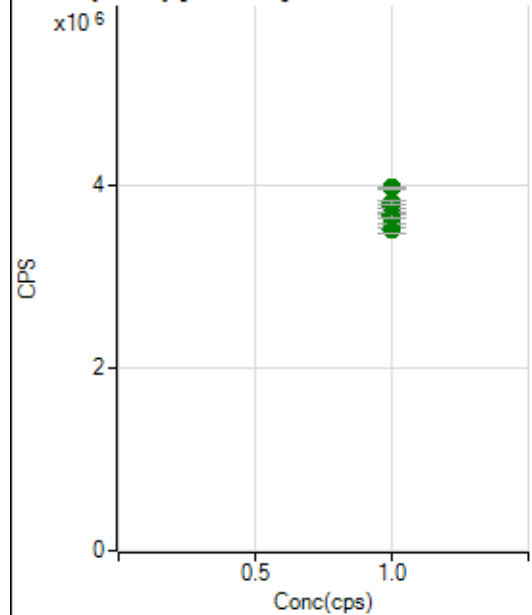
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		700208.17		P	0.7
2	☐	1.000		690991.41		P	0.8
3	☐	1.000		711173.36		P	0.4
4	☐	1.000		725803.13		P	0.4
5	☐	1.000		740482.40		P	0.3
6	☐	1.000		740677.67		P	0.5
7	☐	1.000		779019.55		P	0.6
8	☐	1.000		734770.32		P	0.7

103 Rh (ISTD) [No Gas]

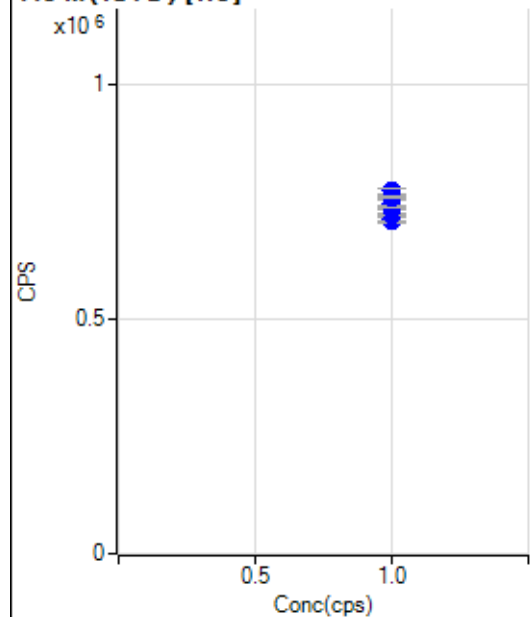
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3528201.64		A	2.4
2	☐	1.000		3625624.04		A	0.9
3	☐	1.000		3692406.33		A	1.3
4	☐	1.000		3665723.47		A	0.1
5	☐	1.000		3734389.80		A	2.0
6	☐	1.000		3739480.77		A	1.9
7	☐	1.000		3907481.38		A	0.8
8	☐	1.000		3481771.95		A	0.8

103 Rh (ISTD) [He]

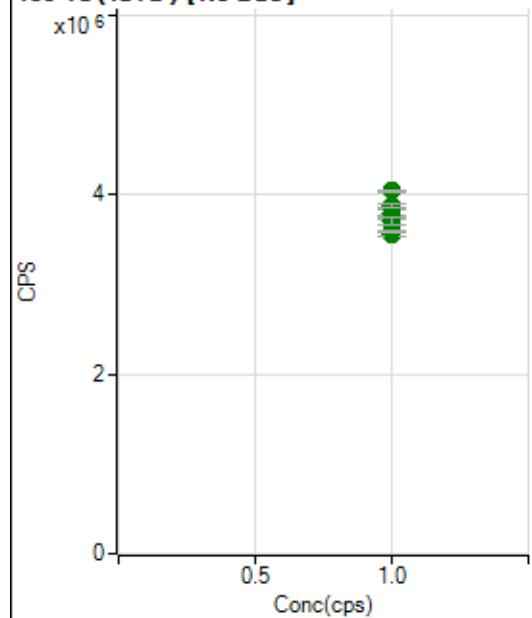
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2009781.22		A	2.1
2	☐	1.000		1988951.72		A	0.3
3	☐	1.000		2066495.77		A	1.0
4	☐	1.000		2066195.44		A	0.4
5	☐	1.000		2113866.96		A	1.1
6	☐	1.000		2097379.69		A	1.1
7	☐	1.000		2145117.17		A	1.2
8	☐	1.000		1940611.29		A	1.5

115 In (ISTD) [No Gas]

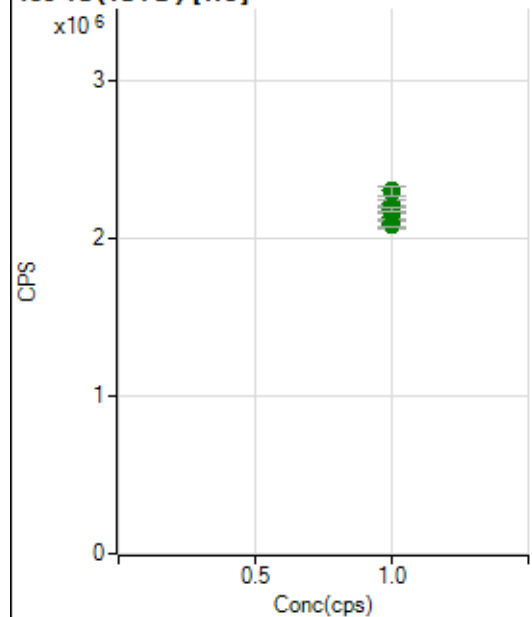
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3508740.81		A	1.5
2	☐	1.000		3576430.49		A	0.2
3	☐	1.000		3658603.04		A	1.1
4	☐	1.000		3674453.04		A	1.3
5	☐	1.000		3772174.71		A	1.3
6	☐	1.000		3808781.07		A	1.1
7	☐	1.000		3971327.53		A	0.8
8	☐	1.000		3814473.93		A	1.4

115 In (ISTD) [He]

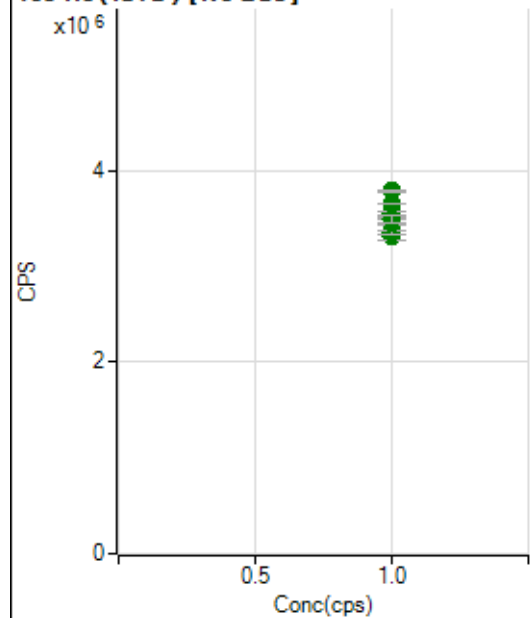
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		710964.22		P	1.0
2	☐	1.000		706895.16		P	0.2
3	☐	1.000		721906.45		P	0.5
4	☐	1.000		733685.59		P	0.4
5	☐	1.000		746705.06		P	1.3
6	☐	1.000		738254.81		P	0.7
7	☐	1.000		772419.70		P	1.3
8	☐	1.000		757822.22		P	0.6

159 Tb (ISTD) [No Gas]

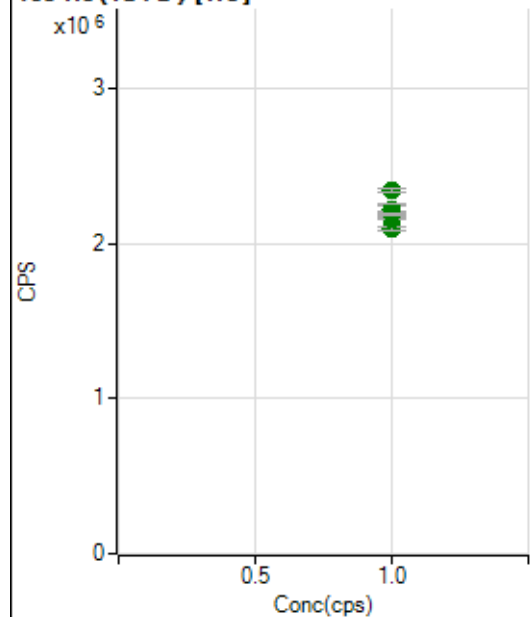
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3558205.60		A	1.1
2	☐	1.000		3598718.56		A	0.8
3	☐	1.000		3761657.48		A	0.7
4	☐	1.000		3741820.71		A	0.5
5	☐	1.000		3802146.64		A	2.2
6	☐	1.000		3889822.55		A	1.2
7	☐	1.000		4046141.26		A	0.6
8	☐	1.000		3706016.85		A	2.0

159 Tb (ISTD) [He]

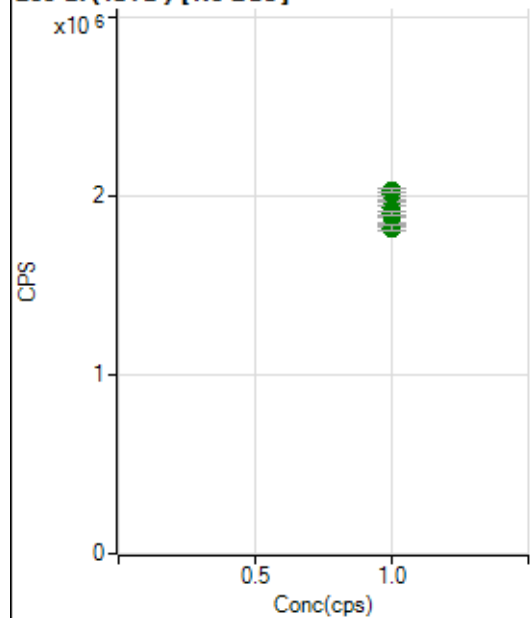
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2085202.85		A	2.1
2	☐	1.000		2091422.89		A	1.7
3	☐	1.000		2138824.57		A	1.3
4	☐	1.000		2162414.33		A	0.9
5	☐	1.000		2216824.44		A	2.4
6	☐	1.000		2194700.65		A	0.6
7	☐	1.000		2299314.57		A	2.6
8	☐	1.000		2176338.54		A	1.2

165 Ho (ISTD) [No Gas]

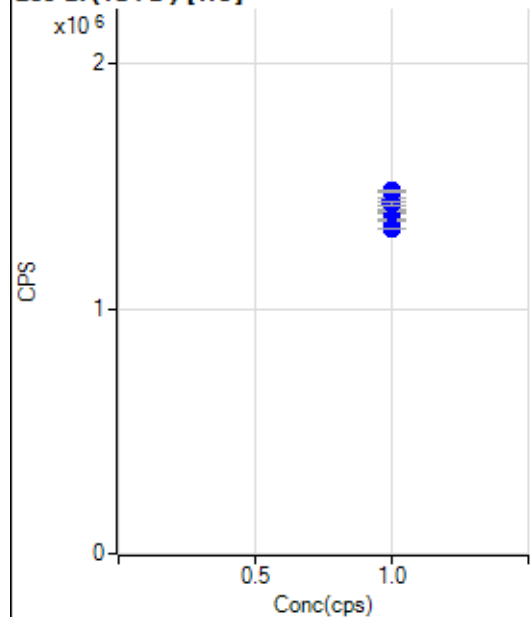
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3308885.47		A	1.5
2	☐	1.000		3355592.39		A	0.9
3	☐	1.000		3463235.41		A	1.4
4	☐	1.000		3504816.83		A	0.8
5	☐	1.000		3560877.08		A	1.2
6	☐	1.000		3657109.37		A	0.3
7	☐	1.000		3790861.89		A	0.6
8	☐	1.000		3496123.52		A	1.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2093340.87		A	1.0
2	☐	1.000		2098147.43		A	1.4
3	☐	1.000		2161753.25		A	0.6
4	☐	1.000		2164471.34		A	0.4
5	☐	1.000		2222603.47		A	1.4
6	☐	1.000		2223152.71		A	2.5
7	☐	1.000		2339016.94		A	0.9
8	☐	1.000		2189710.51		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1843867.39		A	1.4
2	☐	1.000		1885555.39		A	0.7
3	☐	1.000		1934545.37		A	1.9
4	☐	1.000		1905390.49		A	0.9
5	☐	1.000		1977644.79		A	0.8
6	☐	1.000		2013675.26		A	0.5
7	☐	1.000		2031670.75		A	1.0
8	☐	1.000		1824497.31		A	1.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1362961.85		P	0.6
2	☐	1.000		1362079.65		P	0.3
3	☐	1.000		1396164.03		P	1.3
4	☐	1.000		1402601.92		P	0.3
5	☐	1.000		1446035.29		P	0.9
6	☐	1.000		1426323.36		P	1.1
7	☐	1.000		1480406.44		P	0.4
8	☐	1.000		1325791.14		P	0.3

US EPA Tune Check Report

Operator Name ICPMS
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8020220 MS.b
Acq. Date-Time 2020-02-02 12:02:29
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		2591	25912.68			1.096	5.000
24		42056	420563.56			0.658	5.000
25		5874	58742.09			0.642	5.000
26		7021	70209.84			0.298	5.000
59		32396	323964.53			0.494	5.000
113		3208	32080.52			0.467	5.000
115		39473	394731.42			0.761	5.000
206		6144	61435.43			1.190	5.000
207		5544	55442.16			1.120	5.000
208		13030	130299.26			1.050	5.000
220		1	8.80			26.831	

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

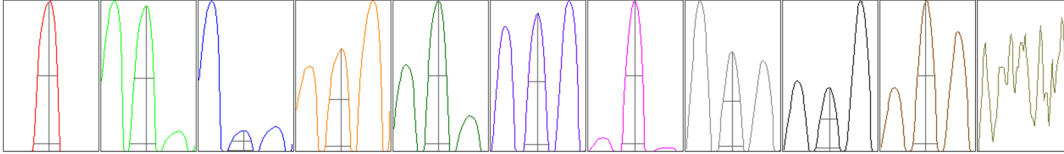
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2566	2567	2581	2617	2626
24	41662	41905	42107	42338	42270
25	5861	5937	5847	5845	5880
26	7024	7017	6999	7010	7054
59	32214	32268	32600	32503	32398
113	3196	3195	3207	3232	3209
115	39098	39670	39195	39710	39692
206	6022	6210	6135	6184	6166
207	5462	5531	5525	5573	5630
208	12795	13047	13109	13058	13141

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4334.32	8.95	8.90 - 9.10	
24	72929.62	23.95	23.90 - 24.10	
25	9661.77	24.95	24.90 - 25.10	
26	11682.19	25.95	25.90 - 26.10	
59	57713.84	58.95	58.90 - 59.10	
113	6305.84	113.00	112.90 - 113.10	
115	77280.44	115.00	114.90 - 115.10	
206	11854.05	206.00	205.90 - 206.10	
207	10692.49	207.00	206.90 - 207.10	
208	25535.85	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.64	0.823	0.900	
24	0.63	0.822	0.900	
25	0.63	0.786	0.900	
26	0.63	0.792	0.900	
59	0.58	0.782	0.900	
113	0.53	0.762	0.900	
115	0.54	0.722	0.900	
206	0.54	0.778	0.900	
207	0.53	0.756	0.900	
208	0.53	0.761	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.50 L/min Dilution Gas 0.45 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 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	11.0 V	Deflect	15.0 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 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	160 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	-0.05		

Hardware Settings

Torch

Torch H	0.4 mm	Torch V	0.1 mm
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EM

Discriminator	3.9 mV	Analog HV	2168 V	Pulse HV	1119 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		8498	84980.06			0.478	
89		6950	69497.67			0.489	
205		6932	69319.78			0.850	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	8526	8525	8531	8461	8446
89	6975	6925	6955	6906	6988
205	6958	6829	6952	6978	6942

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.50 L/min	Dilution Gas	0.45 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 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	11.0 V	Deflect	4.8 V
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US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	123	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	-0.05		
Hardware Settings					
Torch					
Torch H	0.4 mm	Torch V	0.1 mm		
EM					
Discriminator	3.9 mV	Analog HV	2168 V	Pulse HV	1119 V