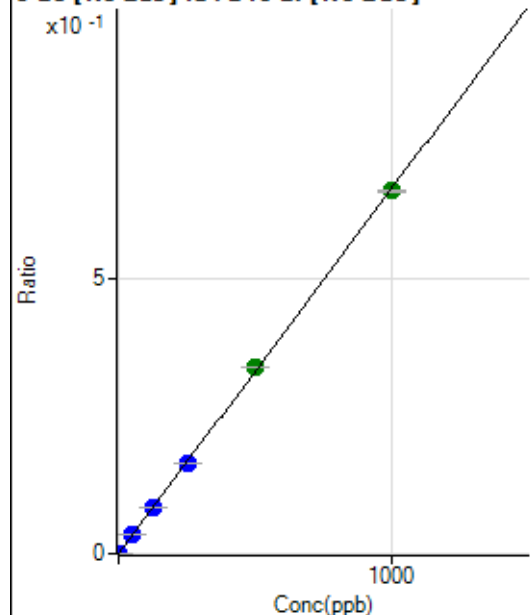


Calibration for 005CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7032022-MS.b\
 Analysis File: P7032022-MS.batch.bin
 DA Date-Time: 2022-03-20 20:45:52
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2022-03-20 17:46:32
2	004CALS.d	S01	2022-03-20 17:49:27
3	006CALS.d	S02	2022-03-20 17:55:16
4	007CALS.d	S03	2022-03-20 17:58:10
5	008CALS.d	S04	2022-03-20 18:00:56
6	009CALS.d	S05	2022-03-20 18:03:41
7	010CALS.d	S06	2022-03-20 18:06:28
8	011CALS.d	S07	2022-03-20 18:09:13
9	012CALS.d	S08	2022-03-20 18:12:00

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	45.55	0.0000	P	8.2
2	☐	0.100	0.095	410.01	0.0001	P	3.6
3	☐	1.000	1.036	4051.67	0.0007	P	2.4
4	☐	50.000	53.529	199786.77	0.0355	P	3.7
5	☐	125.000	126.898	472664.20	0.0842	P	1.6
6	☐	250.000	248.303	890885.15	0.1648	P	0.5
7	☐	500.000	511.163	1773568.83	0.3392	A	0.9
8	☐	1000.000	994.429	3406489.98	0.6598	A	0.6
9	☐			527.79	0.0001	P	10.7

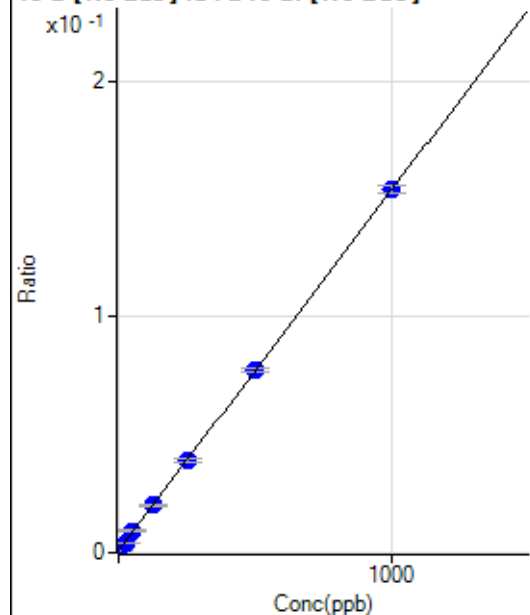
$$y = 6.6353\text{E-}004 * x + 7.7258\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.002854$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4575.80	0.0008	P	2.5
2	☐	2.500	1.842	6106.92	0.0011	P	2.1
3	☐	25.000	21.647	23832.65	0.0041	P	0.8
4	☐	50.000	56.028	52617.67	0.0093	P	1.9
5	☐	125.000	127.278	113636.92	0.0202	P	4.1
6	☐	250.000	249.753	210794.54	0.0390	P	3.6
7	☐	500.000	498.729	403068.59	0.0771	P	2.2
8	☐	1000.000	1000.196	793998.95	0.1538	P	2.0
9	☐			25443.79	0.0056	P	11.6

$$y = 1.5297\text{E-}004 * x + 7.7630\text{E-}004$$

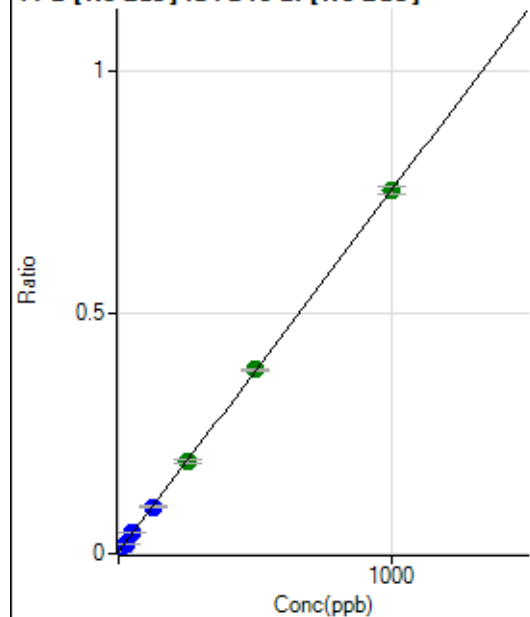
$$R = 1.0000$$

$$DL = 0.3879$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22155.15	0.0038	P	1.5
2	☐	2.500	1.778	29381.08	0.0051	P	2.1
3	☐	25.000	20.849	113050.05	0.0194	P	1.9
4	☐	50.000	54.459	250952.80	0.0446	P	0.8
5	☐	125.000	124.057	543160.44	0.0968	P	3.0
6	☐	250.000	250.353	1035176.36	0.1914	A	3.8
7	☐	500.000	503.320	1992760.98	0.3811	A	1.0
8	☐	1000.000	998.252	3883503.51	0.7521	A	2.2
9	☐			119332.47	0.0261	P	9.7

$$y = 7.4967E-004 * x + 0.0038$$

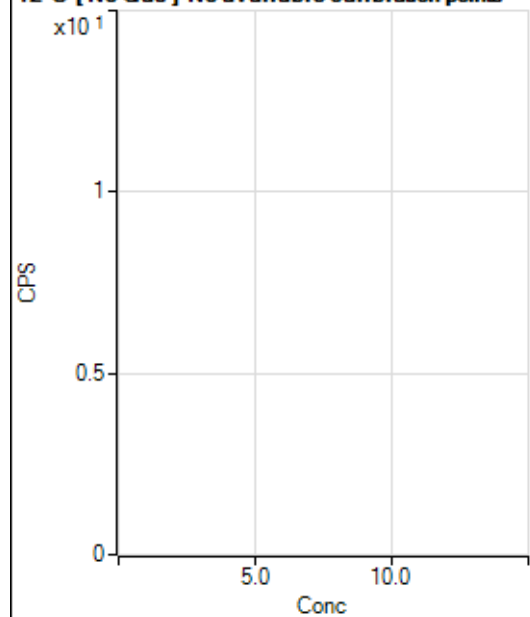
$$R = 1.0000$$

$$DL = 0.2249$$

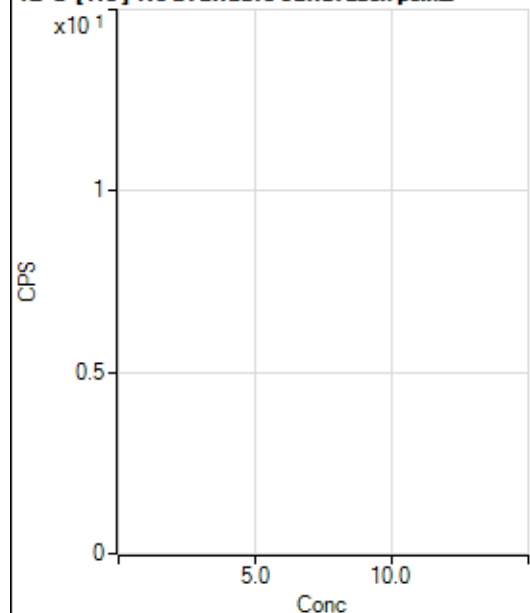
Weight: <None>

Min Conc: 0

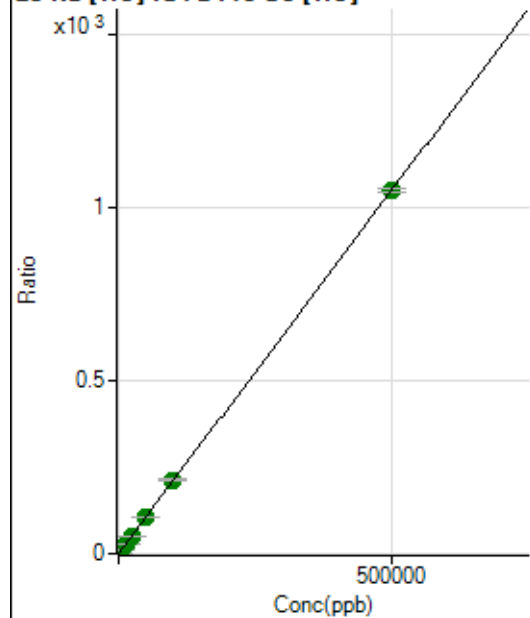
12 C [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						
9	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						
9	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16273.64	0.0265	P	3.2
2	☐	50.000	47.102	77529.37	0.1255	P	0.7
3	☐	500.000	477.240	632454.96	1.0294	P	0.6
4	☐	5000.000	5069.266	6479337.41	10.6791	A	0.5
5	☐	12500.000	12623.621	15624006.83	26.5538	A	0.6
6	☐	25000.000	25035.027	30109346.51	52.6350	A	0.4
7	☐	50000.000	50750.106	58668948.53	106.6725	A	0.6
8	☐	100000.00	101671.79	118407452.65	213.6791	A	1.5
9	☐	500000.00	499585.11	562240945.90	1,049.851	A	1.1

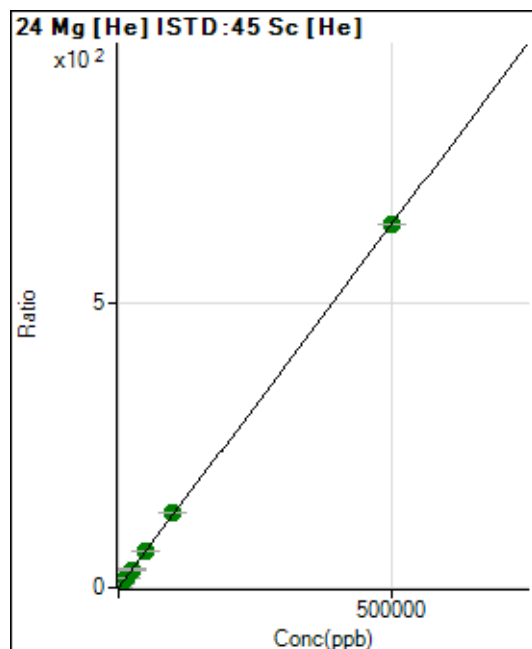
$$y = 0.0021 * x + 0.0265$$

$$R = 1.0000$$

$$DL = 1.214$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	459.28	0.0007	P	13.2
2	☐	50.000	47.624	38110.26	0.0617	P	1.6
3	☐	500.000	477.951	376294.06	0.6125	P	1.0
4	☐	5000.000	5120.066	3976439.90	6.5539	A	1.0
5	☐	12500.000	12669.663	9541451.83	16.2165	A	0.5
6	☐	25000.000	25041.017	18333853.88	32.0505	A	1.0
7	☐	50000.000	50327.386	35427258.43	64.4143	A	0.4
8	☐	100000.00	103320.50	73279262.75	132.2397	A	1.6
9	☐	500000.00	499295.69	342238026.17	639.0447	A	0.1

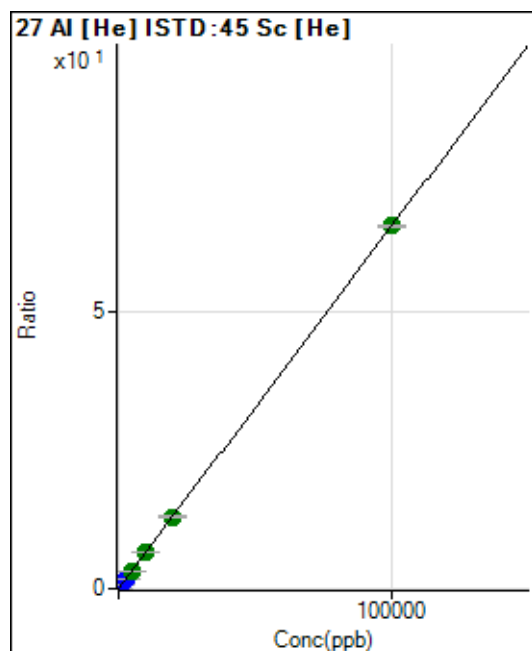
$$y = 0.0013 * x + 7.4944E-004$$

$$R = 1.0000$$

$$DL = 0.2314$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	303.71	0.0005	P	38.2
2	☐	2.000	1.751	1011.16	0.0016	P	1.4
3	☐	20.000	18.991	7915.13	0.0129	P	2.8
4	☐	1000.000	976.257	386694.00	0.6373	P	0.5
5	☐	2500.000	2400.442	921605.92	1.5664	P	0.5
6	☐	5000.000	4845.289	1808268.69	3.1612	A	1.4
7	☐	10000.000	9841.825	3531266.69	6.4206	A	0.4
8	☐	20000.000	19740.043	7135827.59	12.8774	A	2.0
9	☐	100000.00	100078.27	34962450.55	65.2840	A	0.8

$$y = 6.5232E-004 * x + 4.9477E-004$$

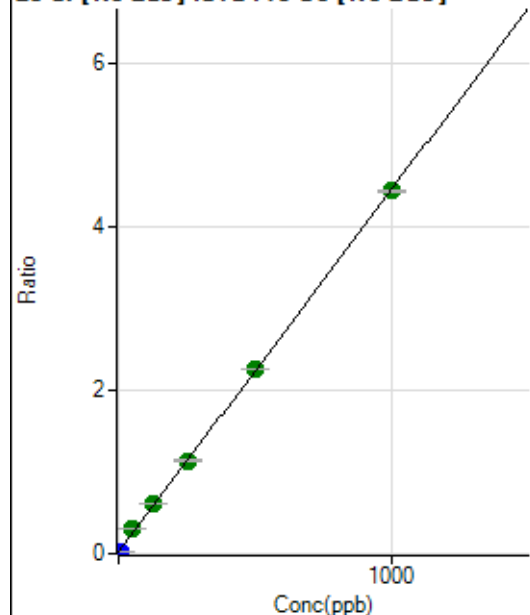
$$R = 1.0000$$

$$DL = 0.87$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	153942.78	0.0202	P	1.5
2	☐	1.000	0.617	173076.54	0.0229	P	16.4
3	☐	10.000	2.811	244511.14	0.0326	P	1.0
4	☐	50.000	64.795	2221399.09	0.3077	A	3.3
5	☐	125.000	133.374	4436434.52	0.6121	A	0.8
6	☐	250.000	252.239	7917539.07	1.1397	A	1.6
7	☐	500.000	502.747	15234012.84	2.2516	A	0.2
8	☐	1000.000	996.353	29860531.22	4.4424	A	0.8
9	☐			634674.15	0.1079	P	11.5

$$y = 0.0044 * x + 0.0202$$

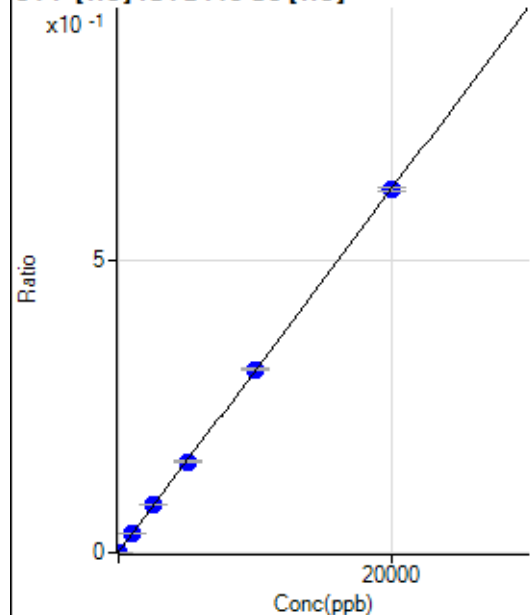
$$R = 0.9998$$

$$DL = 0.1993$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-8.121	375.01	0.0006	P	23.5
2	☐	0.000	-8.287	375.01	0.0006	P	17.9
3	☐	0.000	16.407	844.49	0.0014	P	5.0
4	☐	1000.000	1000.674	19398.86	0.0320	P	3.9
5	☐	2500.000	2597.606	48017.50	0.0816	P	2.1
6	☐	5000.000	4997.080	89355.39	0.1562	P	1.2
7	☐	10000.000	10072.191	172674.56	0.3140	P	1.1
8	☐	20000.000	19952.400	344195.06	0.6211	P	1.0
9	☐			419.46	0.0008	P	12.1

$$y = 3.1086E-005 * x + 8.6450E-004$$

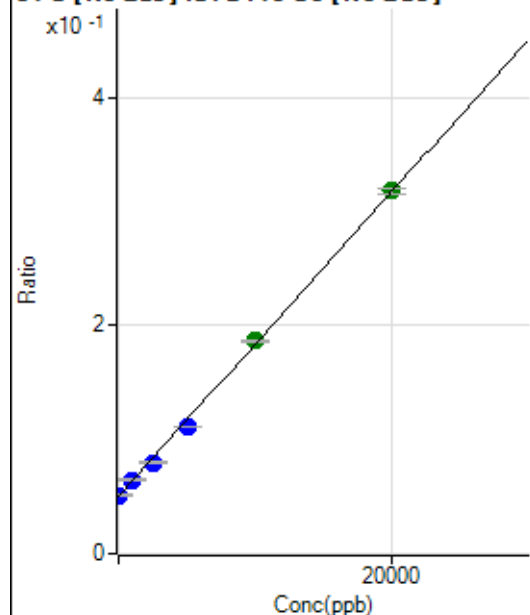
$$R = 1.0000$$

$$DL = 10.33$$

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	-45.843	381667.00	0.0500	P	0.7
2	☐	0.000	-12.646	381436.54	0.0504	P	0.8
3	☐	0.000	58.489	384891.77	0.0514	P	0.9
4	☐	1000.000	1049.082	466163.00	0.0646	P	3.9
5	☐	2500.000	2211.842	580578.02	0.0801	P	0.4
6	☐	5000.000	4544.199	772757.24	0.1112	P	1.0
7	☐	10000.000	10178.047	1261354.75	0.1864	A	0.8
8	☐	20000.000	20058.493	2139336.55	0.3183	A	1.6
9	☐			268690.37	0.0456	P	7.2

$$y = 1.3346E-005 * x + 0.0506$$

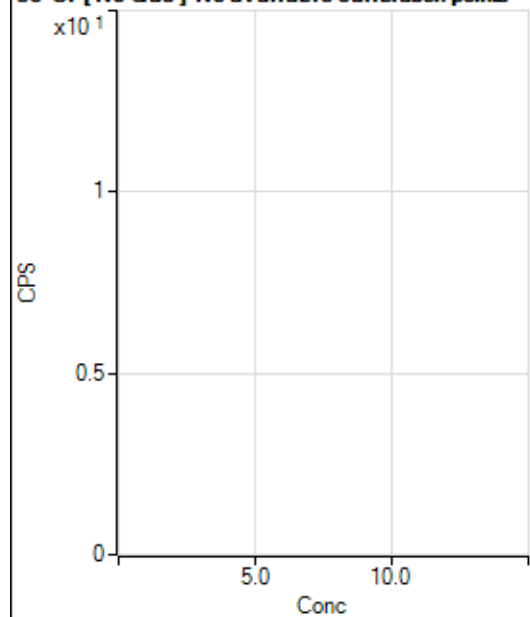
R = 0.9996

DL = 90.68

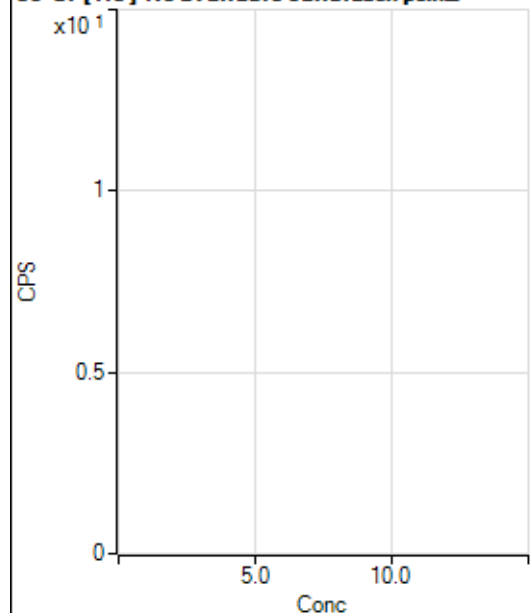
Weight: <None>

Min Conc: 0

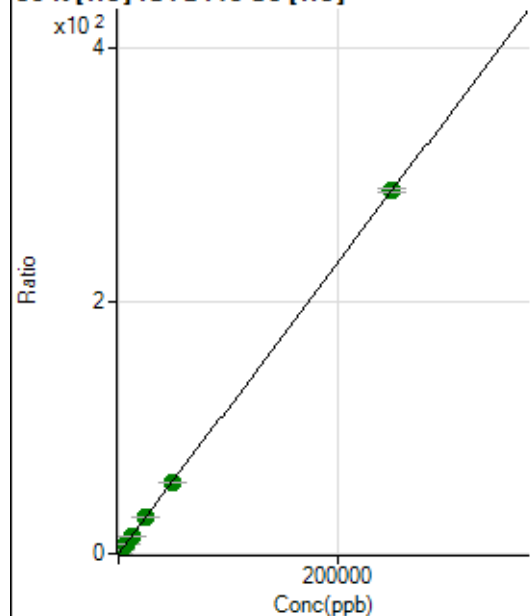
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						
9	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						
9	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27809.21	0.0454	P	1.7
2	☐	50.000	49.925	63413.08	0.1027	P	1.7
3	☐	500.000	493.782	376101.87	0.6122	P	0.5
4	☐	2500.000	2513.219	1777858.61	2.9302	A	0.6
5	☐	6250.000	6175.457	4197488.03	7.1340	A	0.3
6	☐	12500.000	12177.334	8022201.22	14.0234	A	1.4
7	☐	25000.000	24631.823	15575234.72	28.3196	A	0.8
8	☐	50000.000	49275.330	31371652.44	56.6073	A	0.6
9	☐	250000.00	250199.62	153831197.88	287.2435	A	1.2

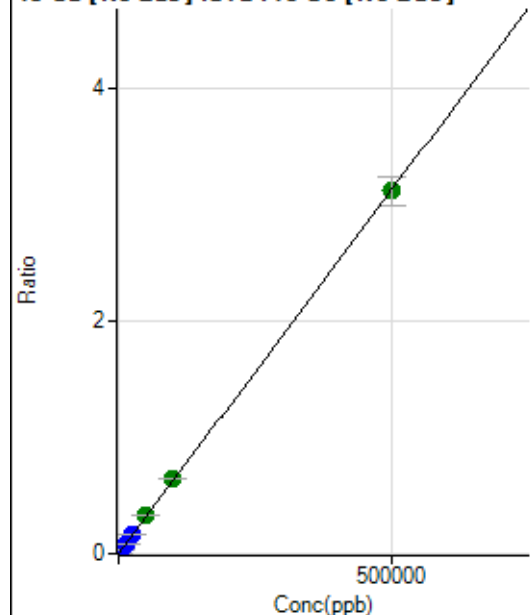
$$y = 0.0011 * x + 0.0454$$

$$R = 1.0000$$

$$DL = 2.036$$

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	338.90	0.0000	P	12.8
2	☐	50.000	62.858	3308.79	0.0004	P	2.9
3	☐	500.000	490.842	23323.93	0.0031	P	1.8
4	☐	5000.000	5648.741	255204.70	0.0354	P	3.3
5	☐	12500.000	13398.065	607300.25	0.0838	P	1.7
6	☐	25000.000	26844.314	1166068.59	0.1679	P	1.6
7	☐	50000.000	51911.324	2195870.43	0.3246	A	0.6
8	☐	100000.00	103771.80	4360650.92	0.6487	A	0.9
9	☐	500000.00	498933.36	18365522.63	3.1190	A	7.7

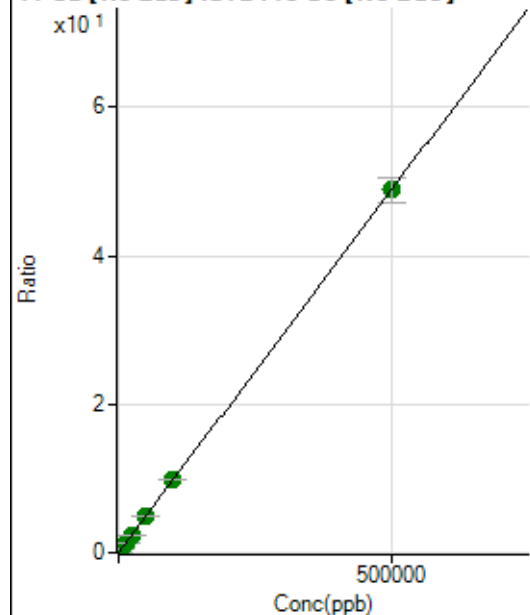
$$y = 6.2512\text{E-}006 * x + 4.4415\text{E-}005$$

$$R = 1.0000$$

$$DL = 2.72$$

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	9464.33	0.0012	P	1.1
2	☐	50.000	58.896	52942.88	0.0070	P	1.1
3	☐	500.000	487.116	366172.66	0.0489	P	1.2
4	☐	5000.000	5289.514	3742041.49	0.5185	A	3.7
5	☐	12500.000	12559.996	8910045.08	1.2294	A	0.3
6	☐	25000.000	24934.826	16946961.49	2.4394	A	1.2
7	☐	50000.000	49885.355	33013220.18	4.8791	A	0.6
8	☐	100000.00	100242.10	65893488.97	9.8031	A	0.9
9	☐	500000.00	499961.91	287918278.66	48.8886	A	7.1

$$y = 9.7782\text{E-}005 * x + 0.0012$$

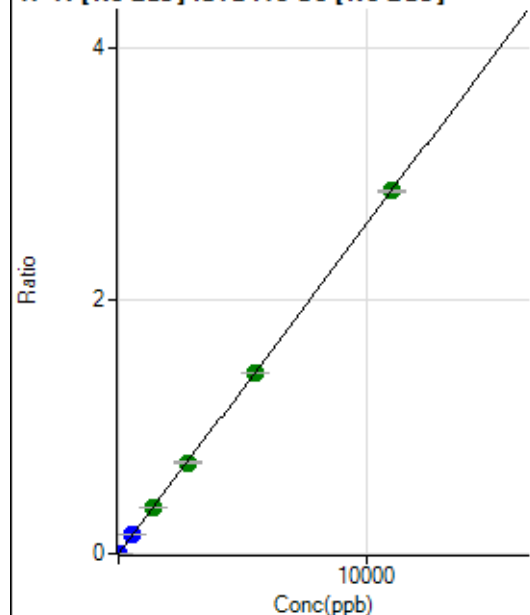
$$R = 1.0000$$

$$DL = 0.4183$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	100.00	0.0000	P	13.8
2	☐	0.500	0.512	1108.41	0.0001	P	12.4
3	☐	5.000	4.868	9614.42	0.0013	P	2.0
4	☐	550.000	578.280	1089010.71	0.1509	P	4.2
5	☐	1375.000	1387.405	2623598.80	0.3620	A	1.4
6	☐	2750.000	2761.587	5005632.97	0.7206	A	2.2
7	☐	5500.000	5494.084	9699134.33	1.4335	A	0.3
8	☐	11000.000	10997.097	19287014.32	2.8694	A	0.9
9	☐			5934.65	0.0010	P	9.5

$$y = 2.6092E-004 * x + 1.3087E-005$$

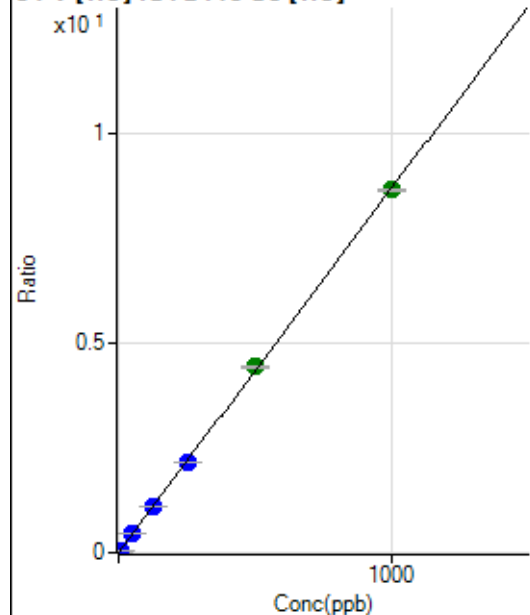
$$R = 1.0000$$

$$DL = 0.02074$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13.34	0.0000	P	43.1
2	☐	0.500	0.458	2479.12	0.0040	P	2.0
3	☐	5.000	4.945	26466.59	0.0431	P	1.2
4	☐	50.000	50.592	267290.94	0.4405	P	0.2
5	☐	125.000	124.456	637608.39	1.0837	P	0.6
6	☐	250.000	246.230	1226454.53	2.1440	P	0.2
7	☐	500.000	510.216	2443313.75	4.4426	A	0.7
8	☐	1000.000	995.873	4805870.59	8.6712	A	0.3
9	☐			1118.94	0.0021	P	2.2

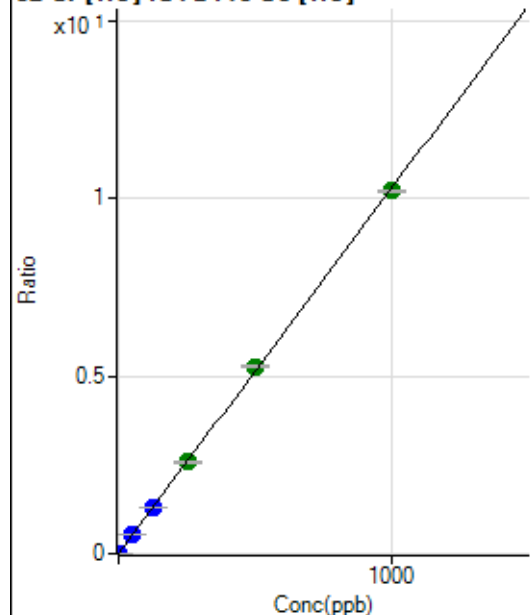
$$y = 0.0087 * x + 2.1735E-005$$

$$R = 0.9999$$

$$DL = 0.003227$$

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	2336.88	0.0038	P	3.7
2	☐	0.200	0.230	3819.41	0.0062	P	4.6
3	☐	2.000	1.950	14670.57	0.0239	P	1.9
4	☐	50.000	51.512	323931.52	0.5339	P	0.4
5	☐	125.000	126.332	767127.76	1.3038	P	0.4
6	☐	250.000	250.316	1475710.74	2.5796	A	0.9
7	☐	500.000	512.911	2904875.89	5.2818	A	0.9
8	☐	1000.000	993.224	5666206.93	10.2243	A	0.7
9	☐			62231.09	0.1162	P	1.0

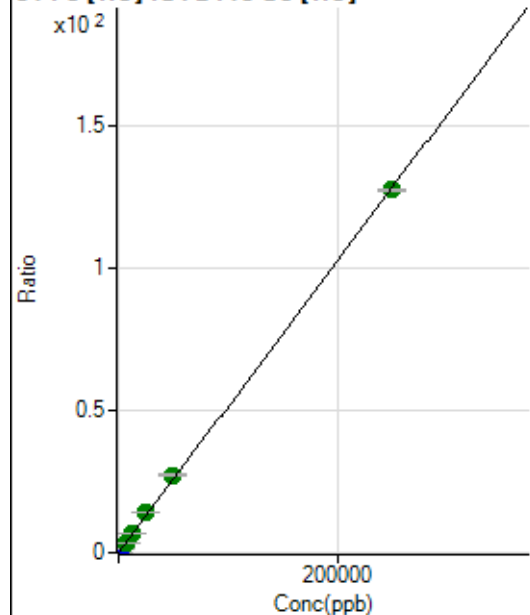
$$y = 0.0103 * x + 0.0038$$

$$R = 0.9999$$

$$DL = 0.04113$$

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	1378.15	0.0022	P	8.0
2	☐	5.000	6.753	3520.70	0.0057	P	5.7
3	☐	50.000	55.578	18837.81	0.0307	P	1.0
4	☐	2500.000	2844.269	883630.83	1.4564	P	0.5
5	☐	6250.000	6879.939	2070912.06	3.5196	A	0.8
6	☐	12500.000	13493.565	3947618.52	6.9008	A	0.2
7	☐	25000.000	27294.726	7675732.28	13.9567	A	1.3
8	☐	50000.000	53320.049	15107041.41	27.2621	A	1.3
9	☐	250000.00	249037.64	68187119.72	127.3227	A	0.3

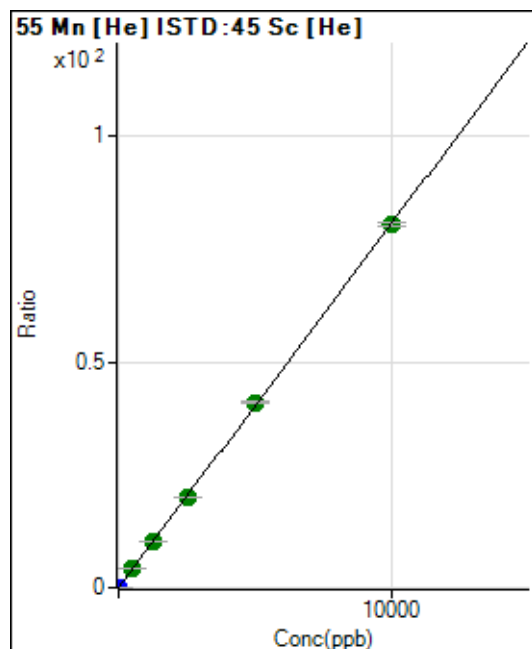
$$y = 5.1125E-004 * x + 0.0022$$

$$R = 0.9999$$

$$DL = 1.049$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1000.04	0.0016	P	3.1
2	☐	0.100	0.203	2017.93	0.0033	P	5.6
3	☐	1.000	1.038	6143.53	0.0100	P	0.7
4	☐	500.000	517.353	2531882.41	4.1730	A	1.0
5	☐	1250.000	1256.390	5961441.02	10.1318	A	0.5
6	☐	2500.000	2499.672	11530442.19	20.1563	A	0.5
7	☐	5000.000	5072.261	22493487.16	40.8989	A	1.0
8	☐	10000.000	9962.285	44513027.67	80.3267	A	1.2
9	☐			33094.24	0.0618	P	1.2

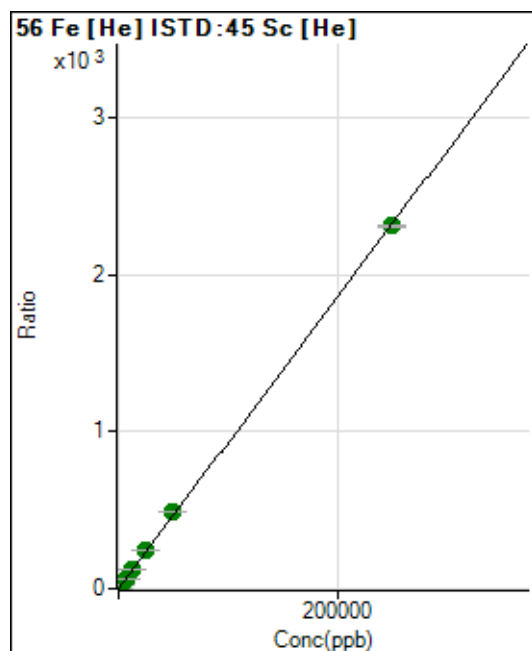
$$y = 0.0081 * x + 0.0016$$

$$R = 1.0000$$

$$DL = 0.01911$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	12835.28	0.0209	P	1.5
2	☐	5.000	5.490	44380.41	0.0719	P	1.5
3	☐	50.000	53.313	316687.82	0.5155	P	0.5
4	☐	2500.000	2743.600	15453094.33	25.4699	A	1.3
5	☐	6250.000	6694.293	36547448.97	62.1155	A	0.2
6	☐	12500.000	13366.143	70935484.46	124.0020	A	0.3
7	☐	25000.000	26783.179	136645702.13	248.4551	A	0.9
8	☐	50000.000	52933.170	272097246.82	491.0160	A	1.2
9	☐	250000.00	249178.19	1237824931.3	2,311.336	A	0.6

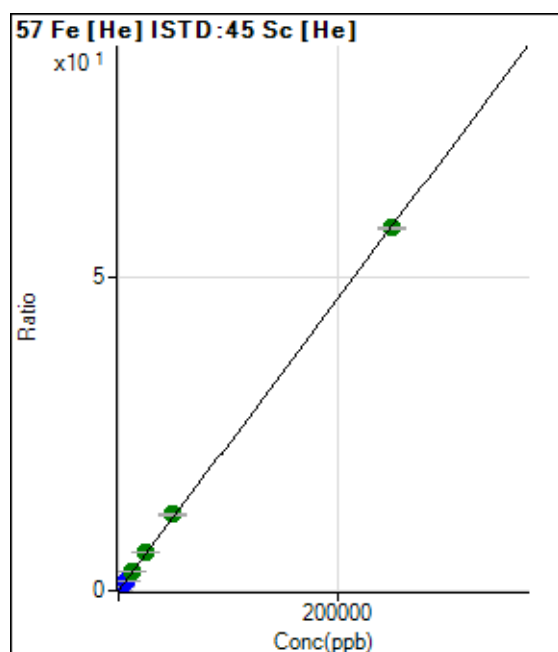
$$y = 0.0093 * x + 0.0209$$

$$R = 0.9999$$

$$DL = 0.09995$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	287.05	0.0005	P	0.9
2	☐	5.000	5.237	1040.79	0.0017	P	10.9
3	☐	50.000	53.912	7985.56	0.0130	P	2.7
4	☐	2500.000	2745.876	387476.34	0.6386	P	0.8
5	☐	6250.000	6711.913	918071.85	1.5604	P	0.7
6	☐	12500.000	13378.602	1778912.35	3.1097	A	1.0
7	☐	25000.000	26608.267	3401370.36	6.1844	A	0.4
8	☐	50000.000	52272.441	6731383.60	12.1489	A	2.4
9	☐	250000.00	249326.74	31032459.26	57.9454	A	0.2

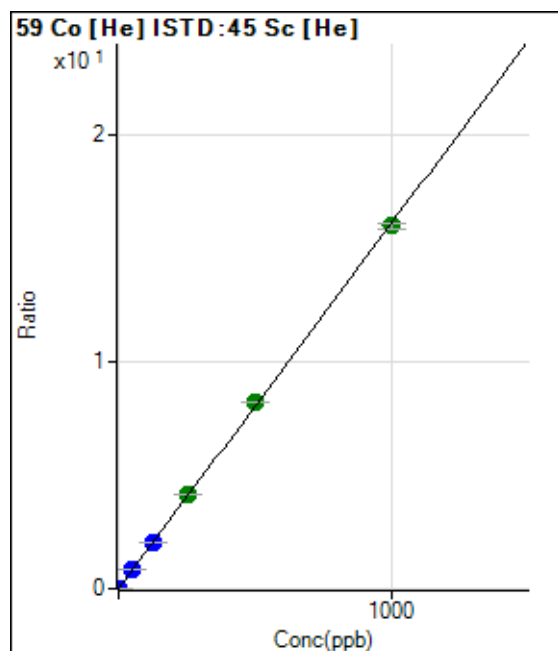
$$y = 2.3241\text{E-}004 * x + 4.6824\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.05415$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	221.11	0.0004	P	19.8
2	☐	0.100	0.099	1208.95	0.0020	P	0.2
3	☐	1.000	1.020	10293.61	0.0168	P	0.3
4	☐	50.000	52.188	509368.55	0.8395	P	0.5
5	☐	125.000	127.850	1209780.01	2.0561	P	0.8
6	☐	250.000	257.435	2368144.51	4.1398	A	0.7
7	☐	500.000	509.684	4507616.53	8.1959	A	0.6
8	☐	1000.000	992.833	8846811.33	15.9647	A	1.8
9	☐			14744.00	0.0275	P	1.1

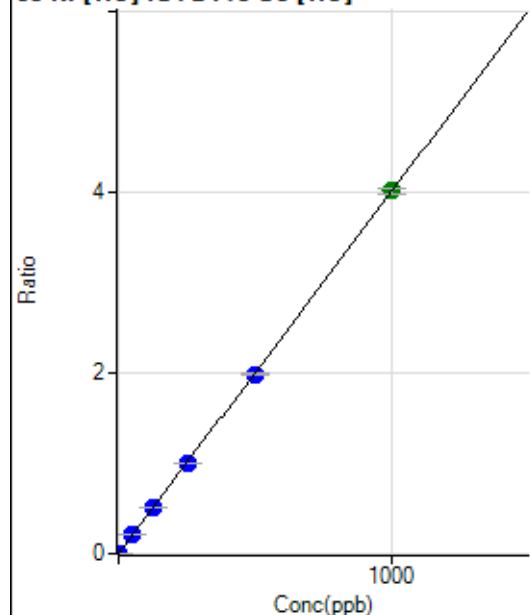
$$y = 0.0161 * x + 3.6062\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.01333$$

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	81.11	0.0001	P	21.2
2	☐	0.100	0.147	445.57	0.0007	P	13.1
3	☐	1.000	1.091	2763.62	0.0045	P	2.3
4	☐	50.000	53.260	129392.98	0.2133	P	0.6
5	☐	125.000	129.413	304775.36	0.5180	P	1.0
6	☐	250.000	249.290	570730.68	0.9977	P	0.5
7	☐	500.000	494.958	1089398.20	1.9808	P	0.6
8	☐	1000.000	1001.984	2222011.30	4.0098	A	1.6
9	☐			15755.05	0.0294	P	1.9

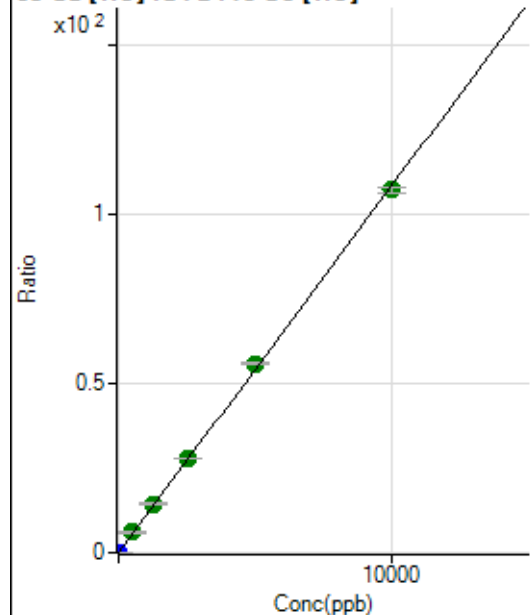
$$y = 0.0040 * x + 1.3233E-004$$

$$R = 1.0000$$

$$DL = 0.02102$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1390.08	0.0023	P	3.1
2	☐	0.200	0.222	2882.53	0.0047	P	0.8
3	☐	2.000	2.099	15359.13	0.0250	P	1.6
4	☐	500.000	551.446	3625312.90	5.9751	A	0.5
5	☐	1250.000	1331.802	8488571.89	14.4274	A	1.1
6	☐	2500.000	2585.849	16023470.32	28.0103	A	0.7
7	☐	5000.000	5144.269	30645847.87	55.7213	A	1.0
8	☐	10000.000	9893.606	59382647.45	107.1627	A	1.5
9	☐			31119.11	0.0581	P	1.3

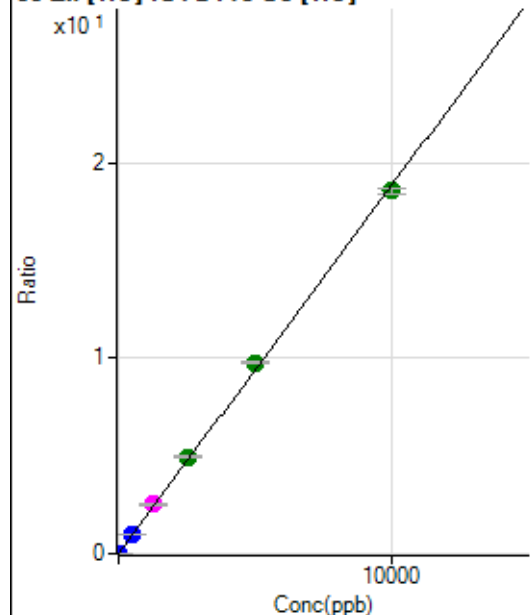
$$y = 0.0108 * x + 0.0023$$

$$R = 0.9998$$

$$DL = 0.01968$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	905.59	0.0015	P	9.7
2	☐	0.200	0.868	1923.48	0.0031	P	1.0
3	☐	2.000	2.333	3609.36	0.0059	P	1.0
4	☐	500.000	544.361	623322.75	1.0274	P	0.8
5	☐	1250.000	1340.012	1486727.58	2.5268	M	1.7
6	☐	2500.000	2630.663	2836933.88	4.9591	A	1.4
7	☐	5000.000	5191.396	5381657.70	9.7849	A	0.5
8	☐	10000.000	9858.167	10295567.42	18.5797	A	1.7
9	☐			14034.44	0.0262	P	2.6

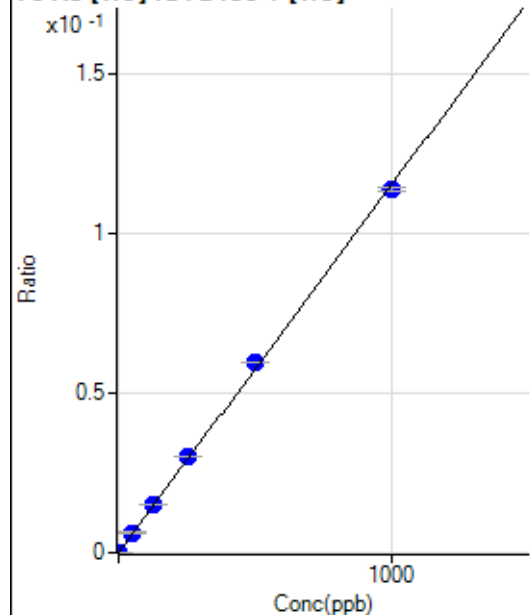
$$y = 0.0019 * x + 0.0015$$

$$R = 0.9996$$

$$DL = 0.2291$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11.11	0.0000	P	117.2
2	☐	0.100	0.110	82.10	0.0000	P	23.3
3	☐	1.000	1.119	726.57	0.0001	P	5.7
4	☐	50.000	54.511	33960.87	0.0063	P	1.5
5	☐	125.000	130.537	80908.00	0.0150	P	0.5
6	☐	250.000	263.026	156385.19	0.0303	P	0.5
7	☐	500.000	518.681	298457.22	0.0597	P	0.4
8	☐	1000.000	986.485	585402.15	0.1136	P	1.2
9	☐			215.43	0.0000	P	11.2

$$y = 1.1511E-004 * x + 1.9997E-006$$

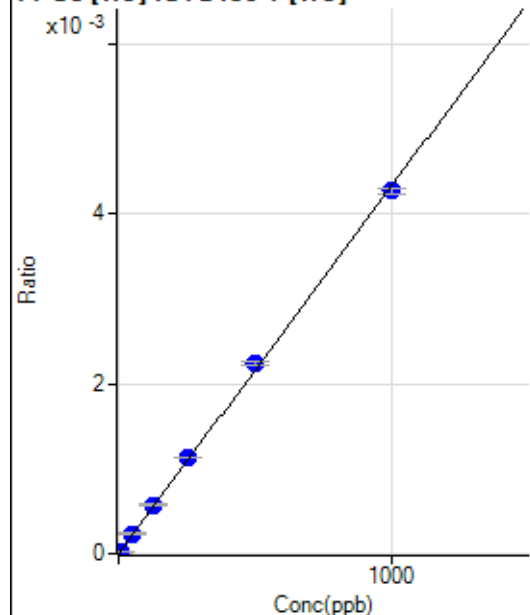
$$R = 0.9996$$

$$DL = 0.06108$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	0.500	0.503	12.22	0.0000	P	32.9
3	☐	5.000	4.577	110.00	0.0000	P	11.9
4	☐	50.000	53.629	1255.62	0.0002	P	5.9
5	☐	125.000	132.742	3091.47	0.0006	P	5.1
6	☐	250.000	261.495	5842.32	0.0011	P	1.9
7	☐	500.000	517.763	11196.56	0.0022	P	1.3
8	☐	1000.000	987.098	22014.22	0.0043	P	1.6
9	☐			5.55	0.0000	P	125.7

$$y = 4.3261\text{E-}006 * x + 0.0000\text{E+}000$$

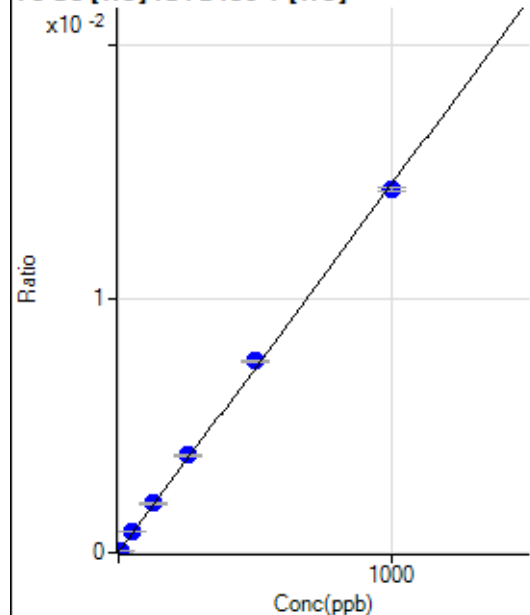
$$R = 0.9997$$

$$DL = 0$$

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	122.84	0.0000	P	9.2
2	☐	0.500	0.570	170.37	0.0000	P	10.6
3	☐	5.000	5.259	545.69	0.0001	P	8.1
4	☐	50.000	54.989	4436.49	0.0008	P	0.6
5	☐	125.000	132.434	10464.24	0.0019	P	1.0
6	☐	250.000	263.779	19880.04	0.0038	P	2.0
7	☐	500.000	520.862	37889.69	0.0076	P	1.0
8	☐	1000.000	984.944	73793.08	0.0143	P	1.0
9	☐			138.89	0.0000	P	18.6

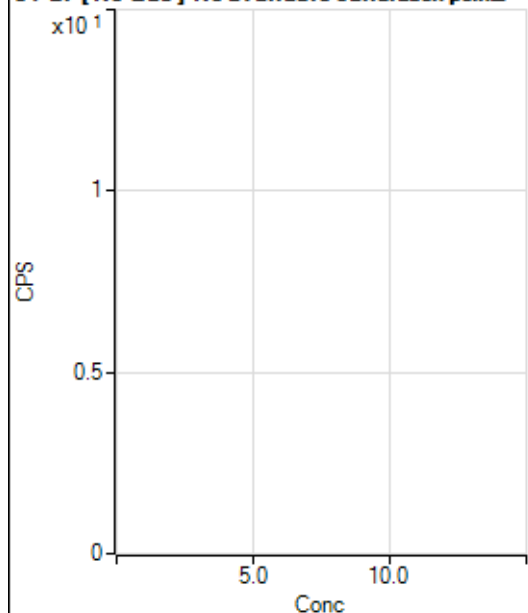
$$y = 1.4510\text{E-}005 * x + 2.2023\text{E-}005$$

$$R = 0.9996$$

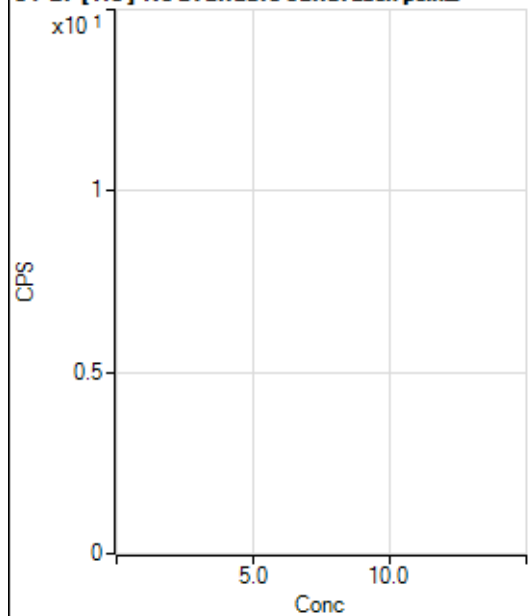
$$DL = 0.4196$$

Weight: <None>

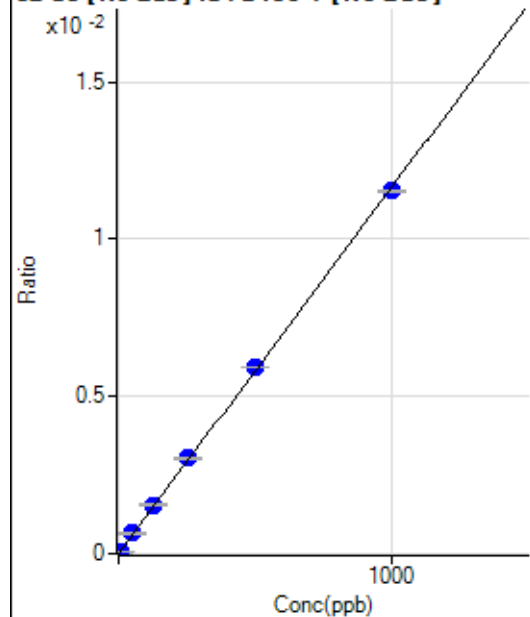
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			8158.06		P	2.4
2	☐			7941.26		P	0.8
3	☐			7838.41		P	3.1
4	☐			8163.60		P	0.3
5	☐			7496.55		P	9.8
6	☐			7349.23		P	3.7
7	☐			6879.57		P	2.8
8	☐			7026.87		P	1.7
9	☐			6687.82		P	1.7

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			80.08		P	21.7
2	☐			73.41		P	15.7
3	☐			60.06		P	33.3
4	☐			70.07		P	42.9
5	☐			53.39		P	43.3
6	☐			53.39		P	28.6
7	☐			46.71		P	65.5
8	☐			63.40		P	36.5
9	☐			93.43		P	34.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-20.42	0.0000	P	-456.
2	☐	0.500	0.144	19.02	0.0000	P	280.6
3	☐	5.000	4.809	1298.30	0.0001	P	6.8
4	☐	50.000	55.170	14655.64	0.0006	P	2.6
5	☐	125.000	133.478	35530.32	0.0016	P	1.4
6	☐	250.000	261.883	67973.80	0.0030	P	1.6
7	☐	500.000	509.083	129813.56	0.0059	P	0.3
8	☐	1000.000	991.171	248985.95	0.0115	P	0.4
9	☐			-167.90	0.0000	P	-56.1

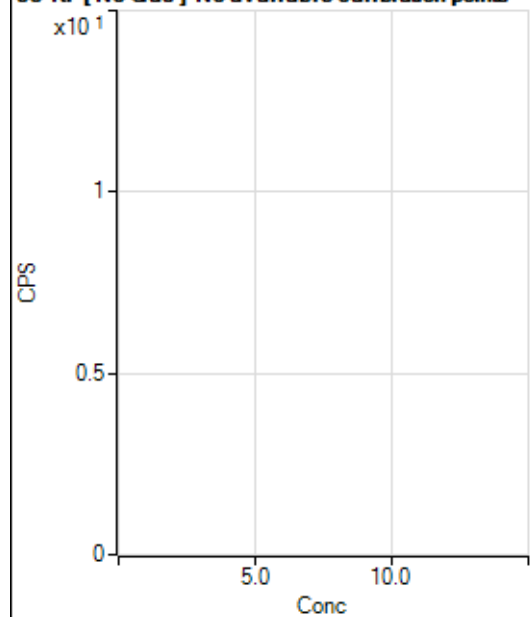
$$y = 1.1642E-005 * x - 8.5260E-007$$

$$R = 0.9998$$

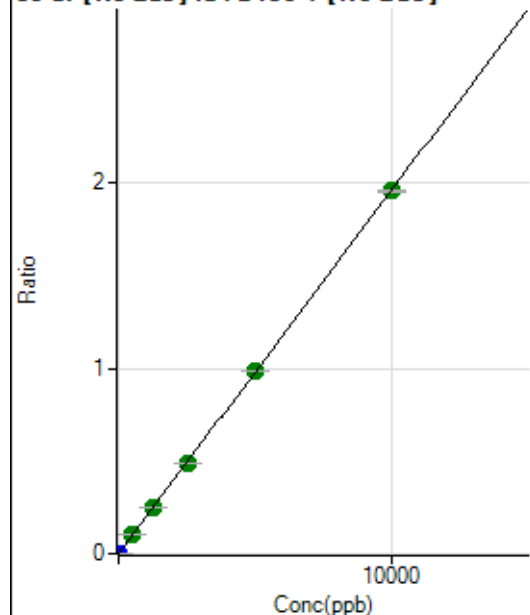
$$DL = 1.003$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5195.41		P	1.4
2	☐			5324.34		P	0.8
3	☐			5377.70		P	1.4
4	☐			5264.33		P	0.3
5	☐			4865.29		P	1.2
6	☐			4724.13		P	0.9
7	☐			4836.39		P	1.4
8	☐			4737.47		P	1.8
9	☐			4649.66		P	1.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8638.86	0.0004	P	1.3
2	☐	0.100	0.137	9211.45	0.0004	P	3.4
3	☐	1.000	0.933	12872.65	0.0005	P	6.2
4	☐	500.000	537.417	2414029.74	0.1057	A	2.7
5	☐	1250.000	1251.834	5619021.92	0.2456	A	1.3
6	☐	2500.000	2486.692	10873616.30	0.4875	A	0.1
7	☐	5000.000	5035.136	21617301.70	0.9868	A	0.6
8	☐	10000.000	9983.659	42214381.15	1.9563	A	0.8
9	☐			38088.85	0.0021	P	8.9

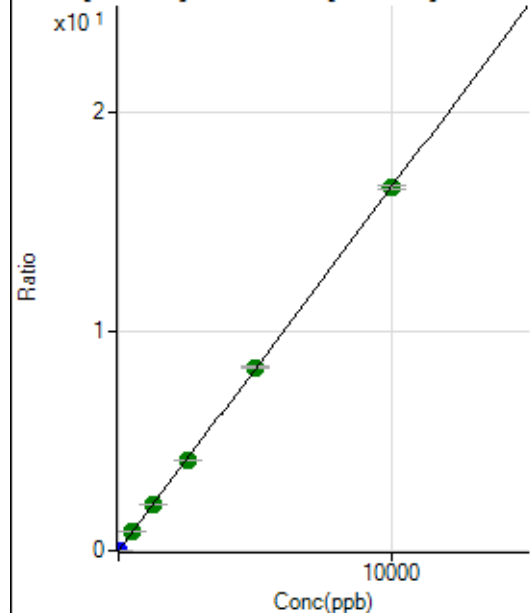
$$y = 1.9591\text{E-}004 * x + 3.6406\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.07126$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	677.82	0.0000	P	6.6
2	☐	0.100	0.101	4631.43	0.0002	P	3.8
3	☐	1.000	0.983	39069.23	0.0017	P	2.5
4	☐	500.000	531.290	20153836.56	0.8821	A	3.0
5	☐	1250.000	1258.401	47802707.32	2.0894	A	0.7
6	☐	2500.000	2492.803	92311180.53	4.1389	A	0.4
7	☐	5000.000	5040.337	183329954.10	8.3686	A	0.9
8	☐	10000.000	9979.017	357521005.21	16.5685	A	1.2
9	☐			265073.35	0.0145	P	7.5

$$y = 0.0017 * x + 2.8562\text{E-}005$$

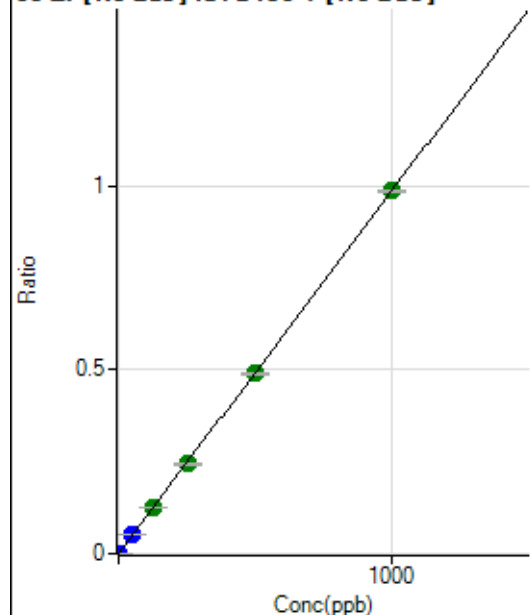
$$R = 1.0000$$

$$DL = 0.003393$$

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	955.61	0.0000	P	16.1
2	☐	0.100	0.089	3008.71	0.0001	P	7.7
3	☐	1.000	0.948	22910.00	0.0010	P	2.4
4	☐	50.000	52.578	1183391.71	0.0518	P	4.0
5	☐	125.000	125.822	2835190.69	0.1239	A	0.6
6	☐	250.000	247.287	5430937.71	0.2435	A	1.4
7	☐	500.000	498.026	10743047.72	0.4904	A	0.8
8	☐	1000.000	1001.434	21277900.65	0.9860	A	0.5
9	☐			11907.91	0.0006	P	6.5

$$y = 9.8459\text{E-}004 * x + 4.0285\text{E-}005$$

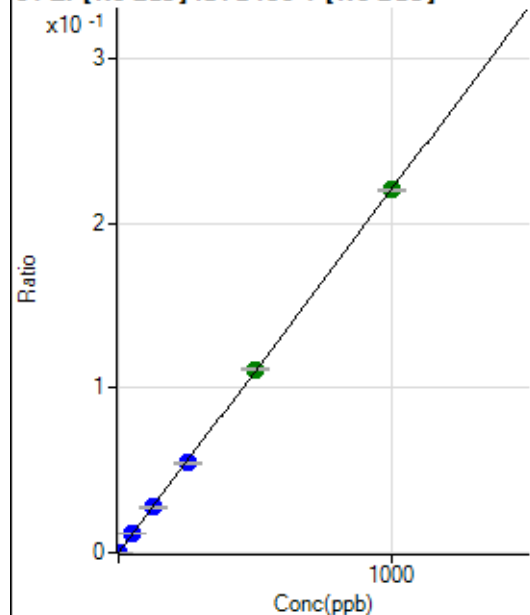
$$R = 1.0000$$

$$DL = 0.01977$$

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	177.78	0.0000	P	5.7
2	☐	0.100	0.093	661.14	0.0000	P	4.3
3	☐	1.000	0.921	4962.09	0.0002	P	5.9
4	☐	50.000	52.080	262792.77	0.0115	P	3.4
5	☐	125.000	124.530	629071.38	0.0275	P	0.7
6	☐	250.000	246.261	1212520.60	0.0544	P	1.5
7	☐	500.000	503.698	2435942.01	0.1112	A	1.0
8	☐	1000.000	999.041	4758975.89	0.2205	A	0.4
9	☐			2741.98	0.0001	P	10.1

$$y = 2.2074\text{E-}004 * x + 7.4929\text{E-}006$$

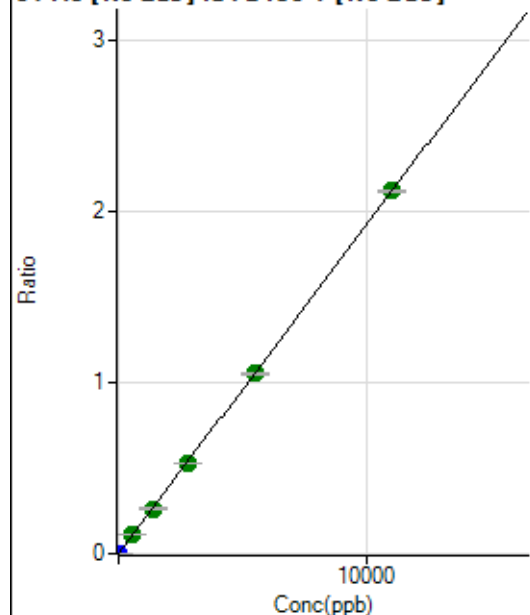
$$R = 1.0000$$

$$DL = 0.005807$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	297.23	0.0000	P	8.3
2	☐	0.500	0.579	2922.58	0.0001	P	4.4
3	☐	5.000	5.783	26496.77	0.0011	P	1.0
4	☐	550.000	579.187	2547792.70	0.1115	A	2.8
5	☐	1375.000	1371.555	6040453.87	0.2641	A	2.2
6	☐	2750.000	2736.223	11748640.54	0.5268	A	1.3
7	☐	5500.000	5464.716	23046807.63	1.0520	A	0.8
8	☐	11000.000	11020.057	45780789.91	2.1215	A	0.3
9	☐			18450.95	0.0010	P	6.2

$$y = 1.9251E-004 * x + 1.2527E-005$$

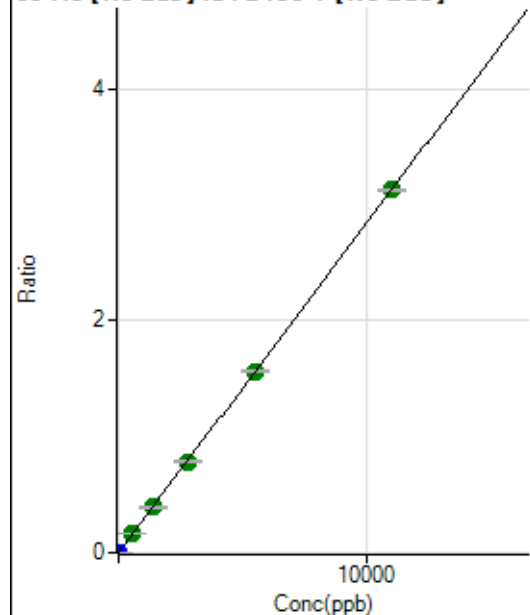
$$R = 1.0000$$

$$DL = 0.01628$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	72.22	0.0000	P	29.2
2	☐	0.500	0.478	3278.24	0.0001	P	8.0
3	☐	5.000	4.848	32542.46	0.0014	P	2.8
4	☐	550.000	578.543	3761680.99	0.1646	A	2.9
5	☐	1375.000	1373.810	8943887.88	0.3910	A	2.0
6	☐	2750.000	2746.063	17429029.38	0.7815	A	2.0
7	☐	5500.000	5494.611	34255302.50	1.5637	A	1.0
8	☐	11000.000	11002.401	67568475.12	3.1311	A	0.7
9	☐			25133.26	0.0014	P	4.4

$$y = 2.8458E-004 * x + 3.0450E-006$$

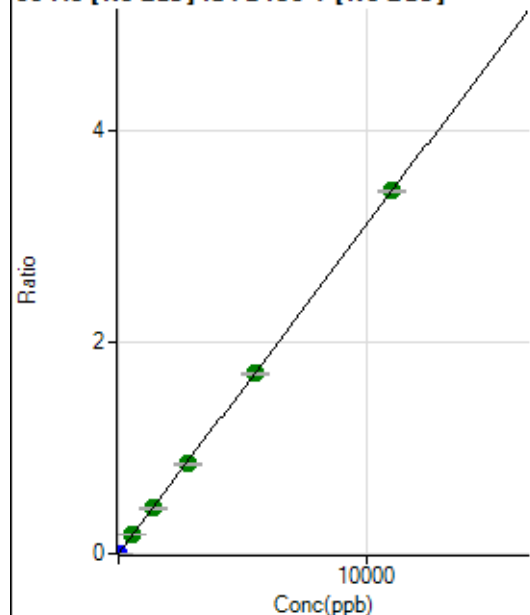
$$R = 1.0000$$

$$DL = 0.009378$$

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	230.57	0.0000	P	28.9
2	☐	0.500	0.488	3806.15	0.0002	P	1.5
3	☐	5.000	4.881	35933.58	0.0015	P	0.9
4	☐	550.000	576.613	4094210.12	0.1792	A	3.8
5	☐	1375.000	1378.845	9804759.07	0.4286	A	1.6
6	☐	2750.000	2734.851	18958599.38	0.8501	A	1.6
7	☐	5500.000	5466.278	37220149.44	1.6990	A	1.1
8	☐	11000.000	11018.837	73906762.76	3.4249	A	0.5
9	☐			30323.67	0.0017	P	6.2

$$y = 3.1082\text{E-}004 * x + 9.7110\text{E-}006$$

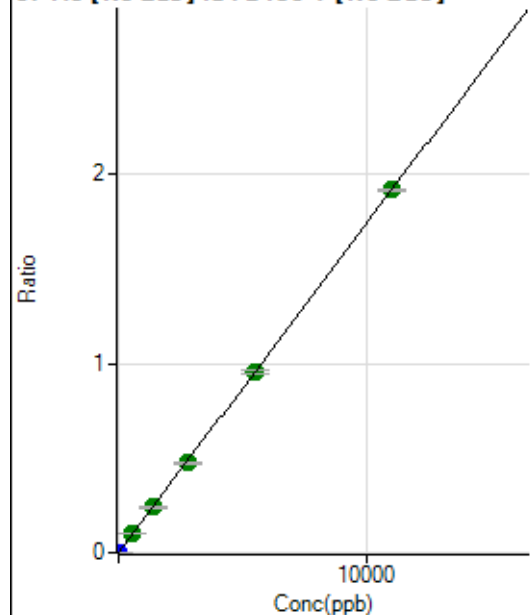
$$R = 1.0000$$

$$DL = 0.02713$$

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	47.22	0.0000	P	40.6
2	☐	0.500	0.466	1958.51	0.0001	P	9.9
3	☐	5.000	4.819	19786.16	0.0008	P	1.3
4	☐	550.000	576.610	2292725.79	0.1004	A	3.8
5	☐	1375.000	1375.441	5477091.10	0.2394	A	1.9
6	☐	2750.000	2723.691	10573675.76	0.4741	A	1.7
7	☐	5500.000	5486.644	20922826.51	0.9550	A	1.3
8	☐	11000.000	11011.870	41364001.97	1.9168	A	0.3
9	☐			14971.94	0.0008	P	5.9

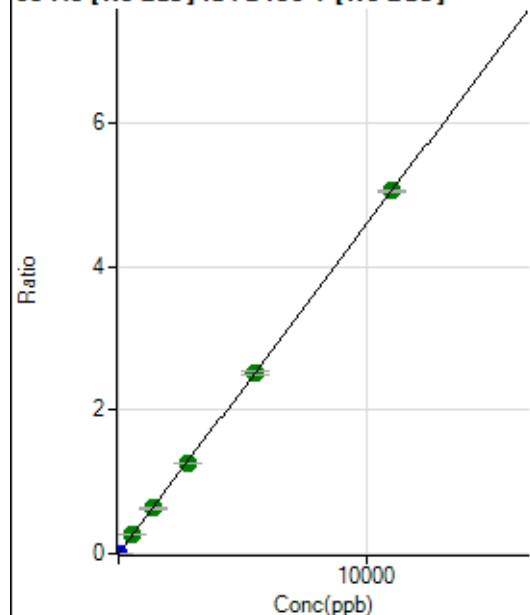
$$y = 1.7407\text{E-}004 * x + 1.9887\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01392$$

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	113.89	0.0000	P	43.8
2	☐	0.500	0.491	5417.83	0.0002	P	0.4
3	☐	5.000	4.812	52037.78	0.0022	P	2.5
4	☐	550.000	575.451	6028092.54	0.2639	A	3.4
5	☐	1375.000	1373.917	14412294.94	0.6300	A	1.9
6	☐	2750.000	2740.341	28023826.84	1.2566	A	1.4
7	☐	5500.000	5484.563	55095548.45	2.5149	A	1.1
8	☐	11000.000	11008.996	108935305.91	5.0481	A	0.2
9	☐			39077.90	0.0021	P	6.6

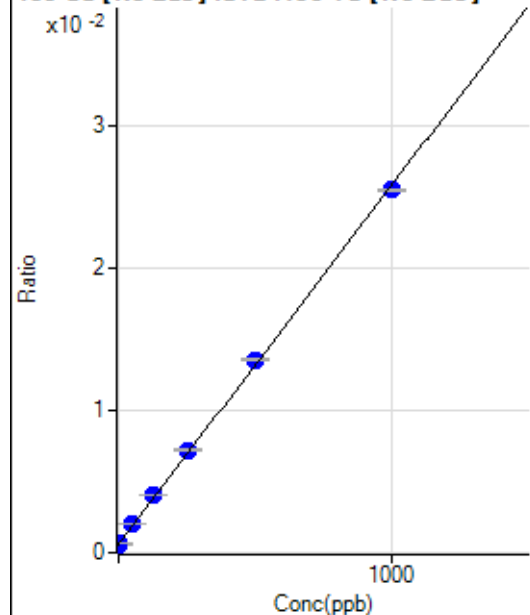
$$y = 4.5854\text{E-}004 * x + 4.7953\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01374$$

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	9401.76	0.0006	P	5.2
2	☐	0.100	0.582	9542.13	0.0006	P	5.0
3	☐	1.000	2.486	10344.09	0.0006	P	2.5
4	☐	50.000	57.074	31960.30	0.0020	P	3.1
5	☐	125.000	135.930	63509.22	0.0040	P	0.5
6	☐	250.000	263.052	112493.25	0.0072	P	0.8
7	☐	500.000	514.698	211830.18	0.0136	P	1.4
8	☐	1000.000	987.667	397330.79	0.0255	P	0.6
9	☐			7518.73	0.0006	P	4.3

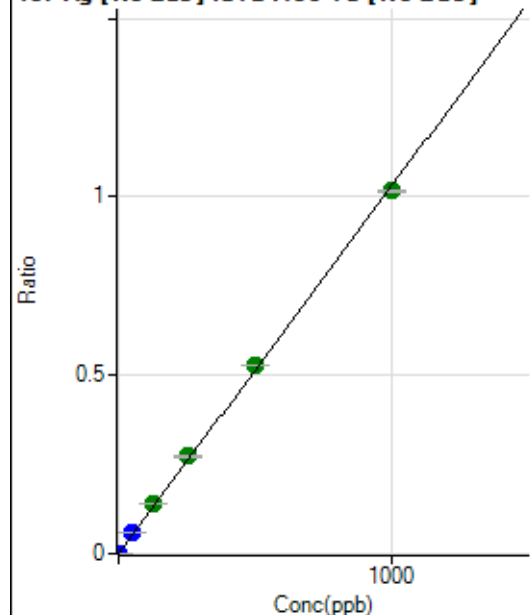
$$y = 2.5247\text{E-}005 * x + 5.8076\text{E-}004$$

$$R = 0.9997$$

$$DL = 3.594$$

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	133.33	0.0000	P	53.6
2	☐	0.100	0.092	1644.56	0.0001	P	12.5
3	☐	1.000	1.088	18150.37	0.0011	P	2.2
4	☐	50.000	58.274	948706.37	0.0600	P	3.2
5	☐	125.000	137.394	2239372.23	0.1415	A	1.2
6	☐	250.000	265.670	4260756.74	0.2736	A	2.5
7	☐	500.000	513.362	8247759.13	0.5286	A	0.5
8	☐	1000.000	987.439	15831937.51	1.0168	A	0.9
9	☐			5402.46	0.0004	P	4.2

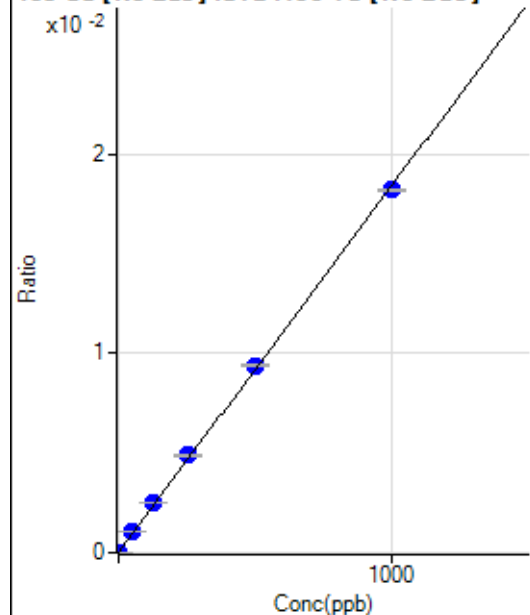
$$y = 0.0010 * x + 8.2148E-006$$

$$R = 0.9997$$

$$DL = 0.01282$$

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	137.50	0.0000	P	6.5
2	☐	0.100	-0.005	134.73	0.0000	P	13.7
3	☐	1.000	1.066	451.40	0.0000	P	2.7
4	☐	50.000	58.700	17182.57	0.0011	P	3.6
5	☐	125.000	136.252	39757.38	0.0025	P	1.7
6	☐	250.000	264.626	75869.87	0.0049	P	0.7
7	☐	500.000	509.860	146310.71	0.0094	P	1.4
8	☐	1000.000	989.572	283248.90	0.0182	P	0.4
9	☐			247.23	0.0000	P	15.0

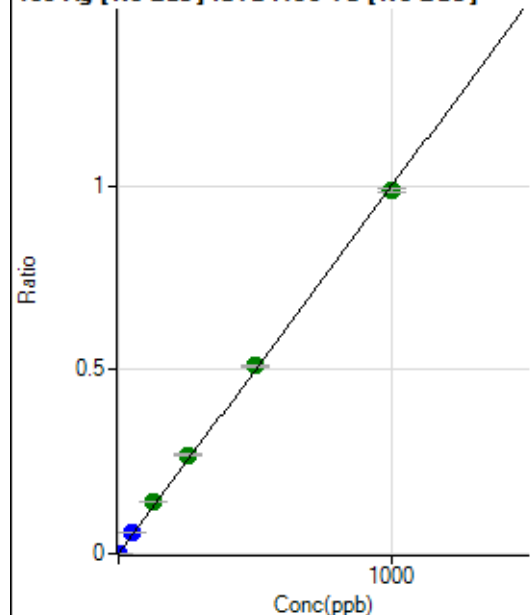
$$y = 1.8373E-005 * x + 8.4935E-006$$

$$R = 0.9998$$

$$DL = 0.08954$$

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	36.11	0.0000	P	17.8
2	☐	0.100	0.082	1341.75	0.0001	P	5.6
3	☐	1.000	1.069	17214.51	0.0011	P	2.4
4	☐	50.000	57.738	912189.87	0.0577	P	2.9
5	☐	125.000	139.576	2207612.20	0.1395	A	0.5
6	☐	250.000	268.974	4186879.78	0.2688	A	0.8
7	☐	500.000	511.224	7971351.39	0.5109	A	0.7
8	☐	1000.000	987.436	15363894.44	0.9867	A	1.2
9	☐			5384.40	0.0004	P	5.9

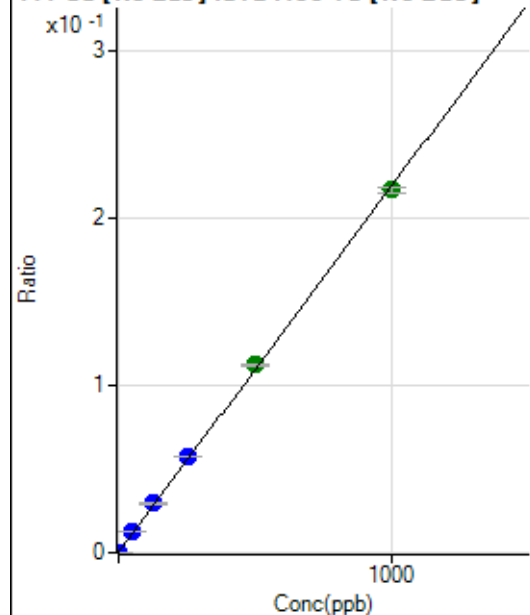
$$y = 9.9929\text{E-}004 * x + 2.2307\text{E-}006$$

$$R = 0.9996$$

$$DL = 0.001194$$

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	2757.60	0.0002	P	5.3
2	☐	0.100	0.119	3147.51	0.0002	P	5.7
3	☐	1.000	1.121	6686.42	0.0004	P	0.7
4	☐	50.000	55.780	195734.55	0.0124	P	4.6
5	☐	125.000	133.711	466152.66	0.0295	P	0.9
6	☐	250.000	259.920	889347.79	0.0571	P	0.5
7	☐	500.000	512.420	1753656.96	0.1124	A	0.7
8	☐	1000.000	989.932	3378148.63	0.2170	A	1.5
9	☐			3177.06	0.0002	P	2.7

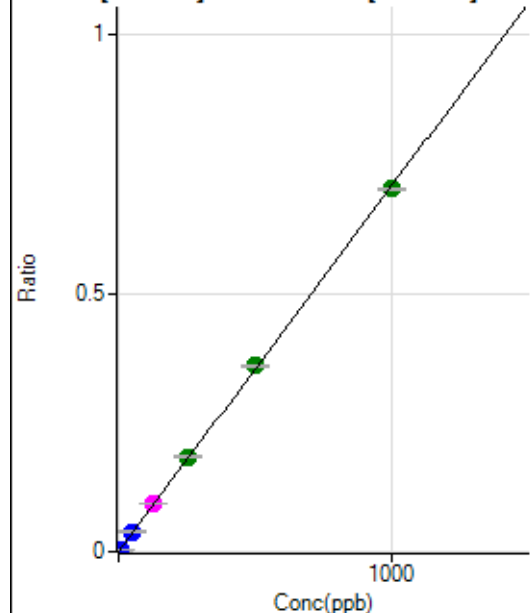
$$y = 2.1900\text{E-}004 * x + 1.7034\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.123$$

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	2011.31	0.0001	P	7.4
2	☐	0.500	0.490	7549.38	0.0005	P	6.8
3	☐	5.000	5.160	60709.36	0.0038	P	1.5
4	☐	50.000	54.201	608315.44	0.0385	P	3.5
5	☐	125.000	130.752	1466576.96	0.0927	M	2.2
6	☐	250.000	259.231	2860021.44	0.1836	A	1.4
7	☐	500.000	508.545	5617963.49	0.3600	A	0.9
8	☐	1000.000	992.490	10939627.50	0.7026	A	0.6
9	☐			7944.03	0.0006	P	7.6

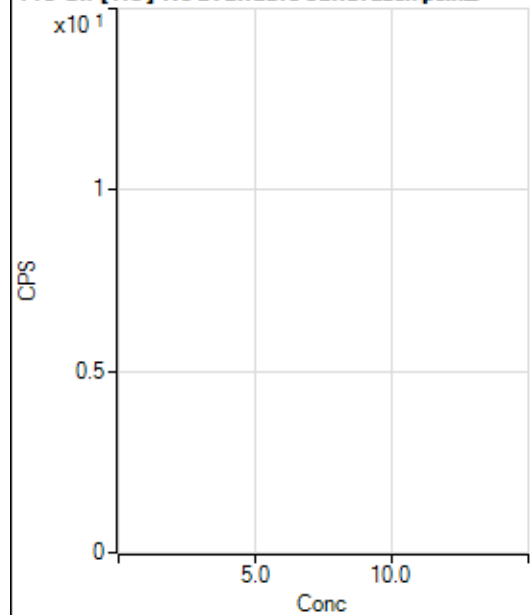
$$y = 7.0774\text{E-}004 * x + 1.2422\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.03915$$

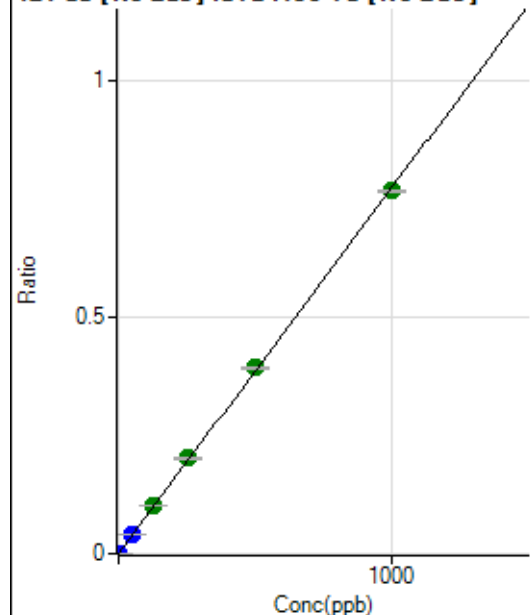
Weight: <None>

Min Conc: 0

118 Sn [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			840.89		P	9.0
2	☐			3100.18		P	4.2
3	☐			23987.98		P	1.0
4	☐			239810.76		P	0.9
5	☐			575793.24		P	0.6
6	☐			1112755.47		P	0.9
7	☐			2208076.88		A	1.2
8	☐			4360057.67		A	0.5
9	☐			2996.74		P	1.3

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	105.56	0.0000	P	21.9
2	☐	0.200	0.189	2447.46	0.0002	P	2.1
3	☐	2.000	1.986	24806.23	0.0015	P	1.2
4	☐	50.000	53.520	654594.76	0.0414	P	3.8
5	☐	125.000	131.385	1608976.08	0.1017	A	1.0
6	☐	250.000	260.733	3142519.97	0.2017	A	0.8
7	☐	500.000	507.692	6129147.36	0.3928	A	0.8
8	☐	1000.000	992.497	11957171.71	0.7679	A	0.6
9	☐			9216.94	0.0007	P	9.3

$$y = 7.7370\text{E-}004 * x + 6.5130\text{E-}006$$

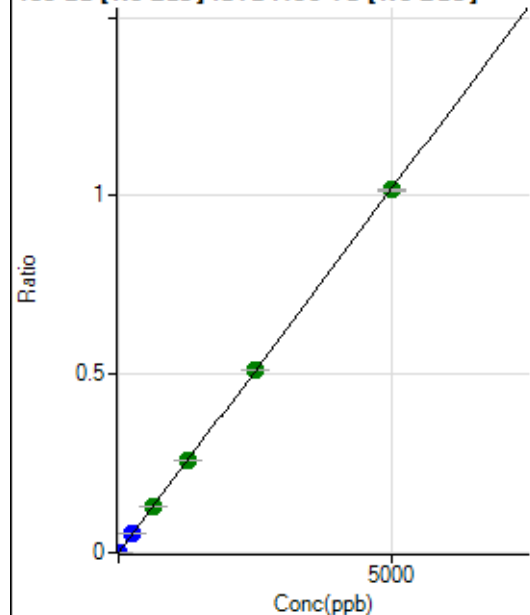
$$R = 0.9999$$

$$DL = 0.005525$$

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	58.33	0.0000	P	37.5
2	☐	1.000	0.933	3105.97	0.0002	P	2.2
3	☐	10.000	9.740	31989.28	0.0020	P	1.1
4	☐	250.000	259.465	836375.76	0.0529	P	3.8
5	☐	625.000	645.267	2082766.69	0.1316	A	0.2
6	☐	1250.000	1272.168	4041331.21	0.2594	A	1.3
7	☐	2500.000	2509.763	7985751.57	0.5118	A	0.3
8	☐	5000.000	4986.570	15835330.74	1.0169	A	0.4
9	☐			6996.33	0.0005	P	3.4

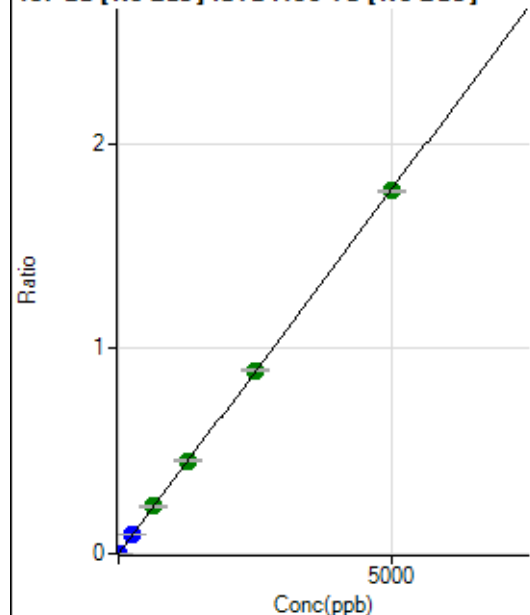
$$y = 2.0393\text{E-}004 * x + 3.5985\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01987$$

Weight: <None>

Min Conc: 0

¹³⁷Ba [No Gas] ISTD : ¹⁵⁹Tb [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	91.67	0.0000	P	9.4
2	☐	1.000	0.957	5531.79	0.0003	P	1.8
3	☐	10.000	9.759	55760.29	0.0035	P	0.9
4	☐	250.000	262.677	1473460.18	0.0932	P	3.4
5	☐	625.000	648.912	3644427.47	0.2303	A	1.3
6	☐	1250.000	1274.608	7045440.44	0.4523	A	1.1
7	☐	2500.000	2516.112	13931010.38	0.8928	A	0.8
8	☐	5000.000	4982.169	27527163.12	1.7679	A	0.9
9	☐			12769.90	0.0010	P	7.3

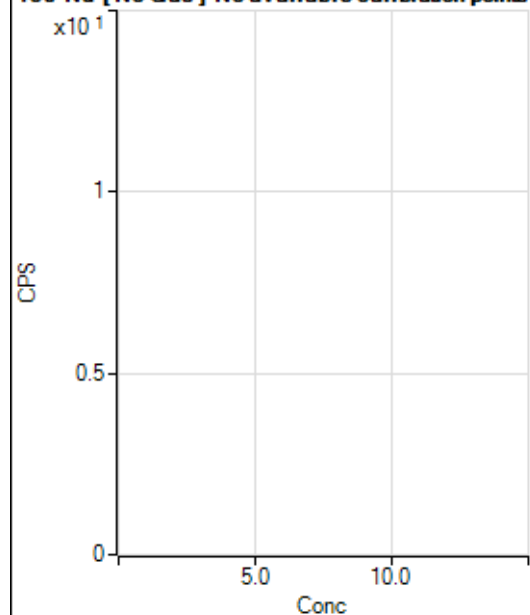
$$y = 3.5484\text{E-}004 * x + 5.6624\text{E-}006$$

$$R = 1.0000$$

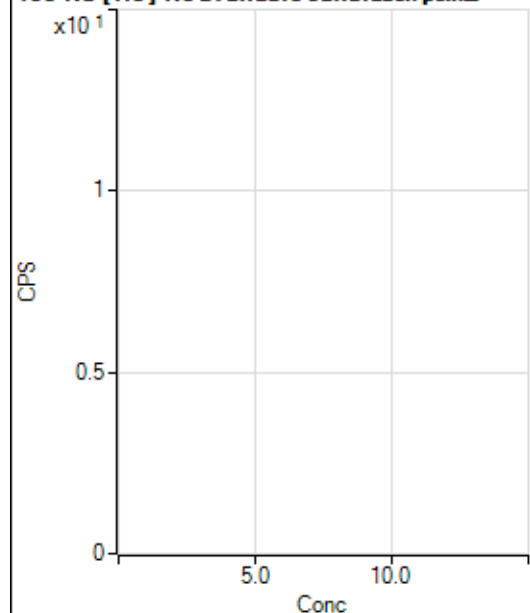
$$DL = 0.004504$$

Weight: <None>

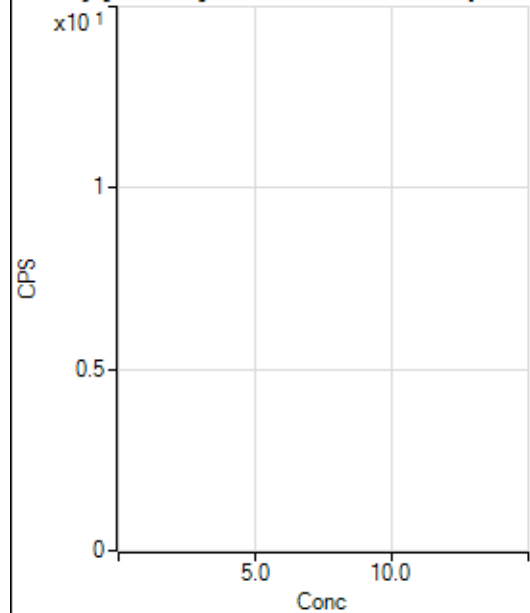
Min Conc: 0

¹⁵⁰Nd [No Gas] No available calibration points

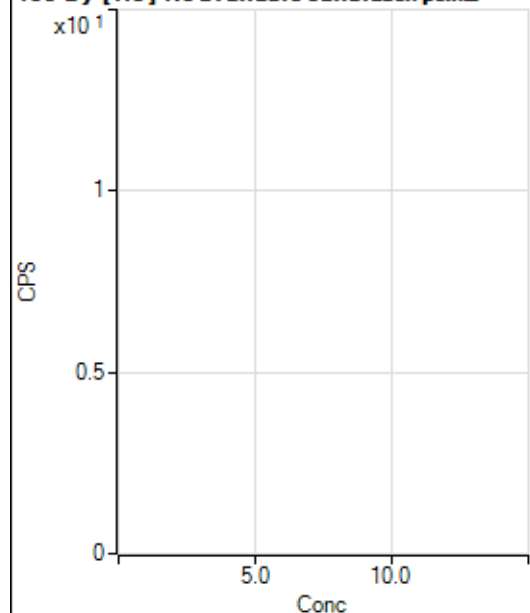
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.45		P	86.6
2	☐			6.67		P	100.0
3	☐			8.89		P	86.6
4	☐			57.78		P	29.0
5	☐			157.78		P	17.1
6	☐			324.46		P	20.6
7	☐			562.24		P	10.1
8	☐			1244.53		P	3.9
9	☐			117.78		P	14.2

150 Nd [He] No available calibration points

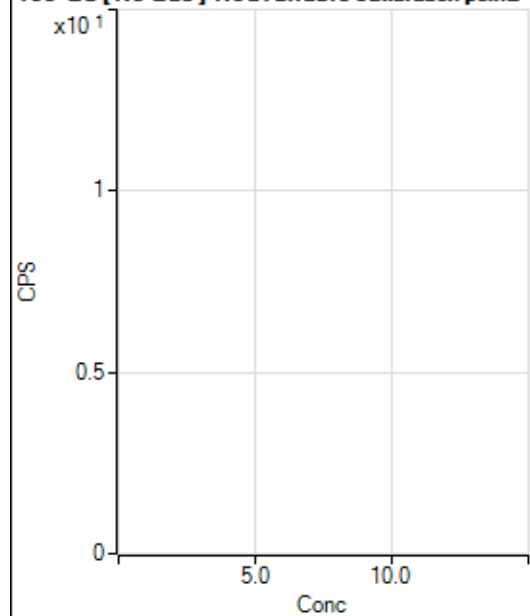
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			1.11		P	173.2
3	☐			0.00		P	
4	☐			12.22		P	68.7
5	☐			50.00		P	30.6
6	☐			61.11		P	25.8
7	☐			108.89		P	14.5
8	☐			200.00		P	6.0
9	☐			64.44		P	18.2

156 Dy [No Gas] No available calibration points

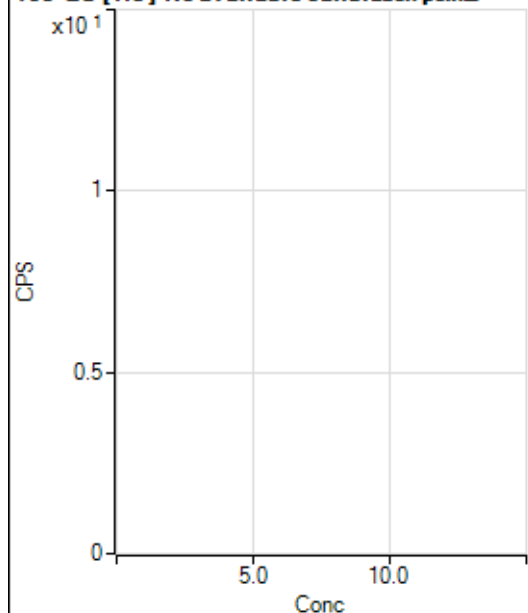
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	114.6
2	☐			16.66		P	86.6
3	☐			19.44		P	65.5
4	☐			50.00		P	16.7
5	☐			125.00		P	52.9
6	☐			247.23		P	19.8
7	☐			452.80		P	2.8
8	☐			944.50		P	7.3
9	☐			2441.96		P	7.7

156 Dy [He] No available calibration points

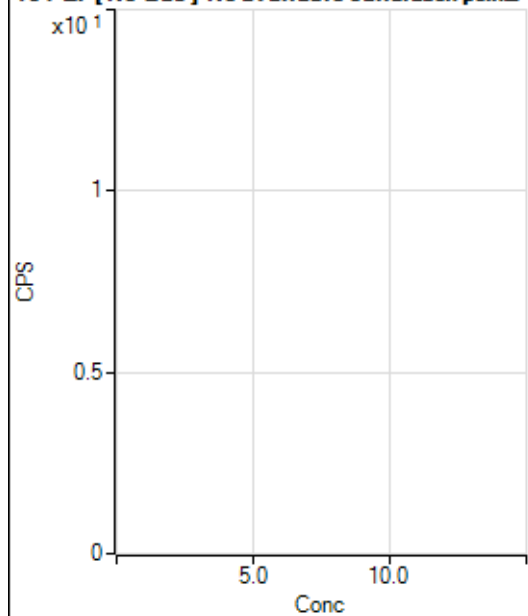
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			0.00		P	
2	☐			5.56		P	91.6
3	☐			12.22		P	63.0
4	☐			52.22		P	9.7
5	☐			128.89		P	7.9
6	☐			194.45		P	13.3
7	☐			392.23		P	9.7
8	☐			801.14		P	12.9
9	☐			1775.69		P	1.4

160 Gd [No Gas] Noavailable calibration poin_

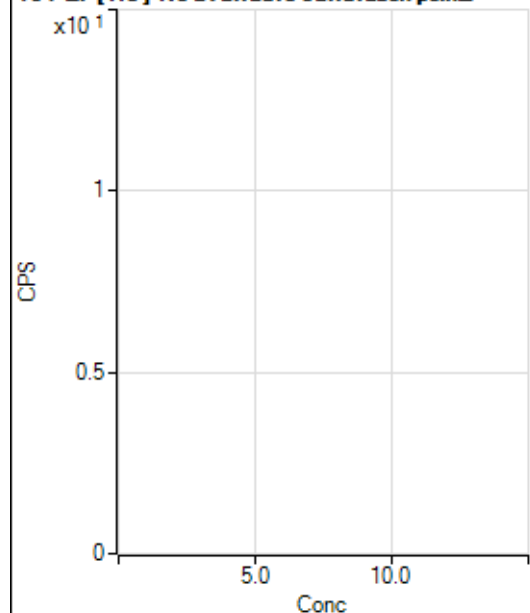
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			72.23		P	17.6
2	☐			61.12		P	34.3
3	☐			69.45		P	59.2
4	☐			102.78		P	41.6
5	☐			113.89		P	40.3
6	☐			194.45		P	15.1
7	☐			305.57		P	4.2
8	☐			627.81		P	10.1
9	☐			2353.04		P	6.4

160 Gd [He] No available calibration points

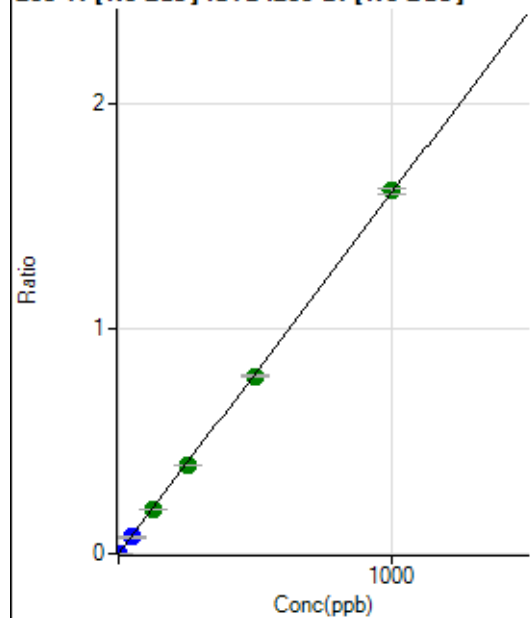
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			261.12		P	13.1
2	☐			247.78		P	6.6
3	☐			268.89		P	6.8
4	☐			280.01		P	4.3
5	☐			317.78		P	6.7
6	☐			334.45		P	16.0
7	☐			456.68		P	4.8
8	☐			687.80		P	9.4
9	☐			1905.71		P	4.8

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			100.00		P	22.0
2	☐			111.11		P	33.8
3	☐			100.00		P	14.4
4	☐			125.00		P	17.6
5	☐			141.67		P	15.6
6	☐			111.12		P	21.6
7	☐			158.34		P	22.9
8	☐			305.57		P	6.9
9	☐			436.13		P	11.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			81.11		P	11.9
2	☐			80.00		P	12.5
3	☐			66.67		P	37.7
4	☐			67.78		P	32.8
5	☐			92.22		P	14.6
6	☐			93.33		P	15.6
7	☐			125.56		P	12.3
8	☐			183.34		P	20.5
9	☐			262.23		P	1.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	744.49	0.0001	P	21.6
2	☐	0.100	0.076	2080.78	0.0002	P	7.1
3	☐	1.000	0.855	16034.98	0.0014	P	4.5
4	☐	50.000	45.937	807947.51	0.0737	P	3.6
5	☐	125.000	123.308	2180591.45	0.1977	A	1.2
6	☐	250.000	245.026	4248149.23	0.3927	A	0.6
7	☐	500.000	491.387	8321328.40	0.7875	A	1.1
8	☐	1000.000	1005.965	16437534.05	1.6121	A	1.5
9	☐			3892.34	0.0005	P	8.2

$$y = 0.0016 * x + 6.5498E-005$$

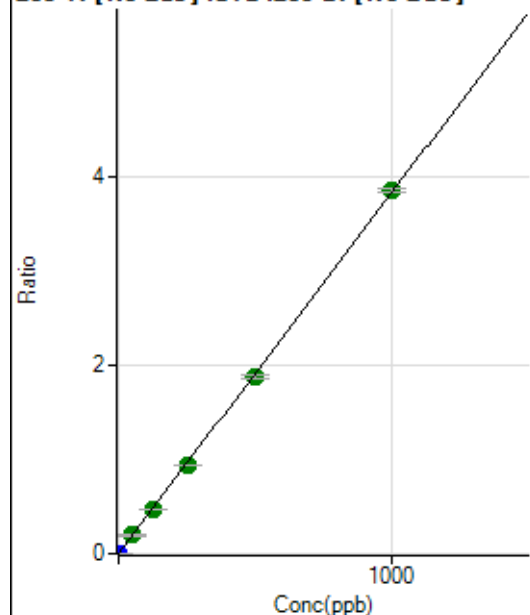
$$R = 0.9999$$

$$DL = 0.02652$$

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	1625.14	0.0001	P	4.3
2	☐	0.100	0.085	5228.93	0.0005	P	1.6
3	☐	1.000	0.844	37669.88	0.0034	P	0.4
4	☐	50.000	50.854	2134911.86	0.1948	A	5.1
5	☐	125.000	122.969	5193310.10	0.4708	A	1.1
6	☐	250.000	243.837	10096511.86	0.9334	A	0.5
7	☐	500.000	491.808	19890106.52	1.8824	A	2.0
8	☐	1000.000	1005.848	39254046.02	3.8497	A	1.2
9	☐			9039.43	0.0012	P	11.2

$$y = 0.0038 * x + 1.4280E-004$$

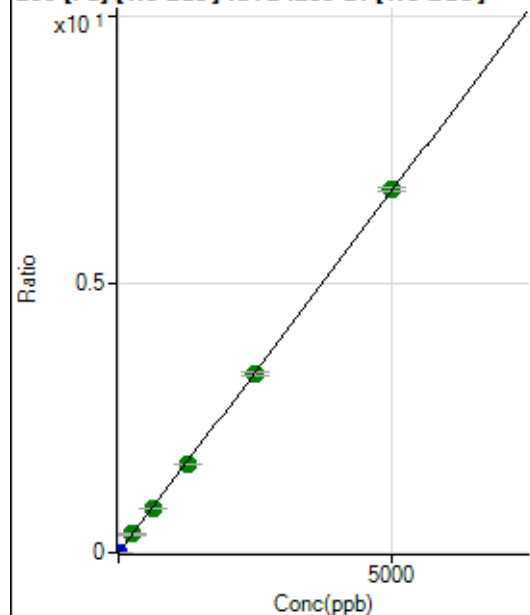
$$R = 0.9999$$

$$DL = 0.004829$$

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	524.09	0.0000	P	4.9
2	☐	0.100	0.103	2061.31	0.0002	P	2.9
3	☐	1.000	0.849	13290.04	0.0012	P	1.2
4	☐	250.000	257.417	3801193.23	0.3467	A	4.4
5	☐	625.000	617.288	9171340.14	0.8314	A	0.9
6	☐	1250.000	1220.028	17774373.20	1.6431	A	1.0
7	☐	2500.000	2475.425	35227512.59	3.3338	A	1.7
8	☐	5000.000	5020.373	68940635.80	6.7613	A	1.2
9	☐			23806.49	0.0031	P	8.2

$$y = 0.0013 * x + 4.6047E-005$$

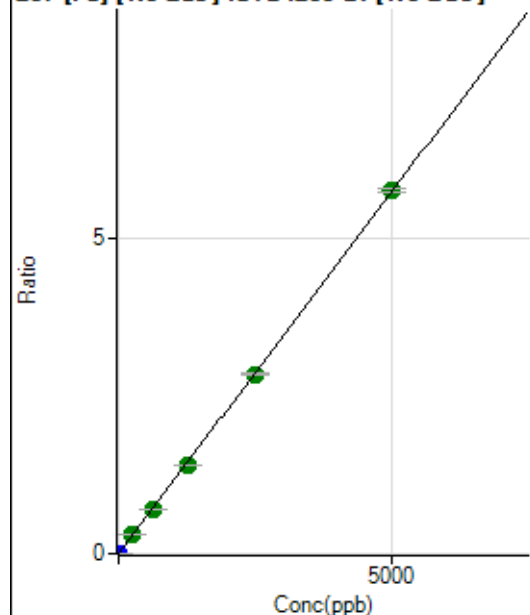
$$R = 1.0000$$

$$DL = 0.005062$$

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	450.02	0.0000	P	7.0
2	☐	0.100	0.100	1722.37	0.0002	P	4.6
3	☐	1.000	0.832	11104.88	0.0010	P	1.4
4	☐	250.000	259.235	3262044.06	0.2976	A	4.8
5	☐	625.000	618.274	7828771.53	0.7097	A	1.2
6	☐	1250.000	1220.058	15148276.61	1.4004	A	0.8
7	☐	2500.000	2481.535	30095994.19	2.8483	A	1.1
8	☐	5000.000	5017.097	58717146.22	5.7585	A	1.2
9	☐			19206.91	0.0025	P	4.4

$$y = 0.0011 * x + 3.9537E-005$$

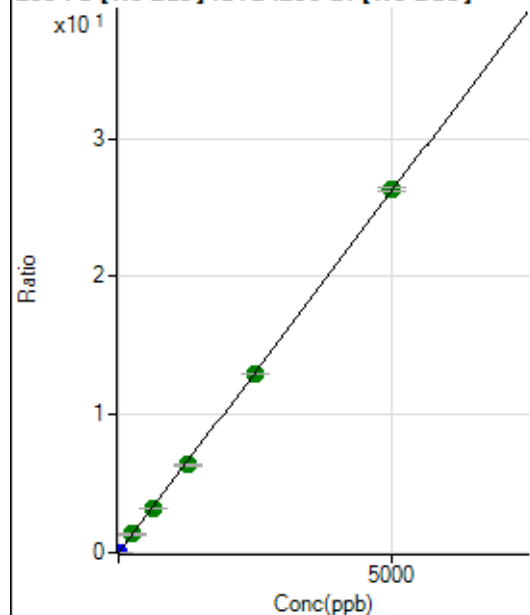
$$R = 1.0000$$

$$DL = 0.00719$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2063.07	0.0002	P	1.7
2	☐	0.100	0.097	7671.36	0.0007	P	0.8
3	☐	1.000	0.833	50771.68	0.0045	P	0.6
4	☐	250.000	257.960	14811058.93	1.3510	A	4.6
5	☐	625.000	614.090	35476925.04	3.2160	A	0.9
6	☐	1250.000	1212.748	68700106.40	6.3510	A	0.6
7	☐	2500.000	2478.813	137163619.96	12.9811	A	0.4
8	☐	5000.000	5020.872	268104744.42	26.2932	A	0.9
9	☐			89752.42	0.0118	P	6.6

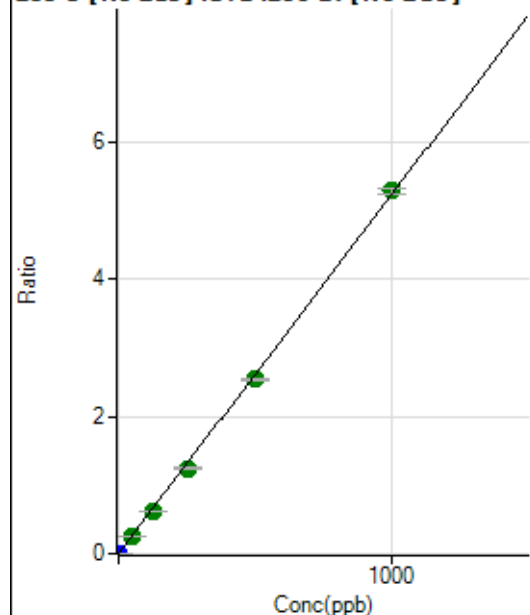
$$y = 0.0052 * x + 1.8129E-004$$

$$R = 1.0000$$

$$DL = 0.001791$$

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	47.22	0.0000	P	26.1
2	☐	0.100	0.076	4495.36	0.0004	P	3.4
3	☐	1.000	0.804	47017.26	0.0042	P	0.6
4	☐	50.000	48.511	2781723.11	0.2537	A	3.9
5	☐	125.000	116.591	6726118.33	0.6097	A	0.4
6	☐	250.000	238.086	13467712.54	1.2451	A	0.9
7	☐	500.000	486.306	26873002.51	2.5432	A	1.4
8	☐	1000.000	1010.951	53903245.99	5.2869	A	1.8
9	☐			7552.41	0.0010	P	5.7

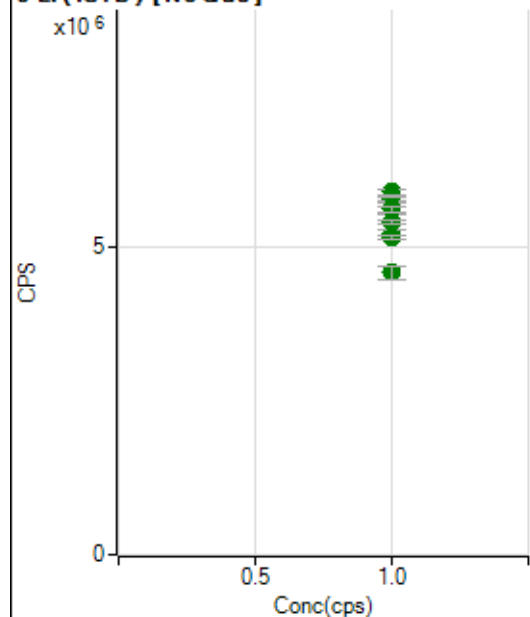
$$y = 0.0052 * x + 4.1426E-006$$

$$R = 0.9998$$

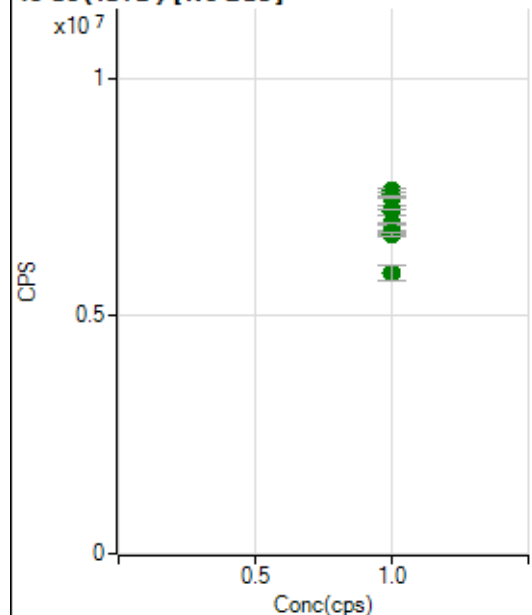
$$DL = 0.0006199$$

Weight: <None>

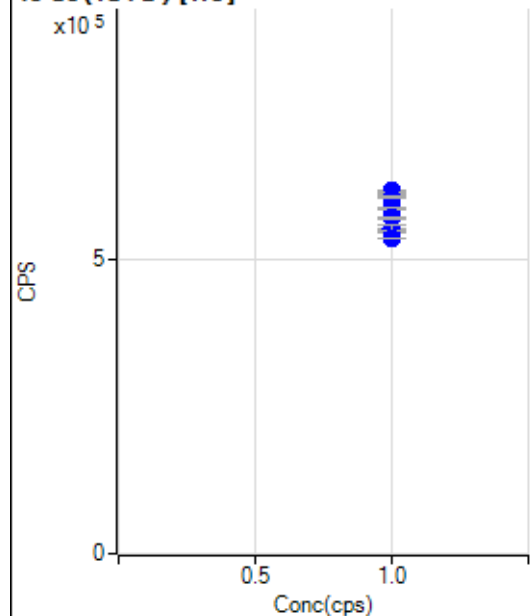
Min Conc: 0

6 Li (ISTD) [No Gas]

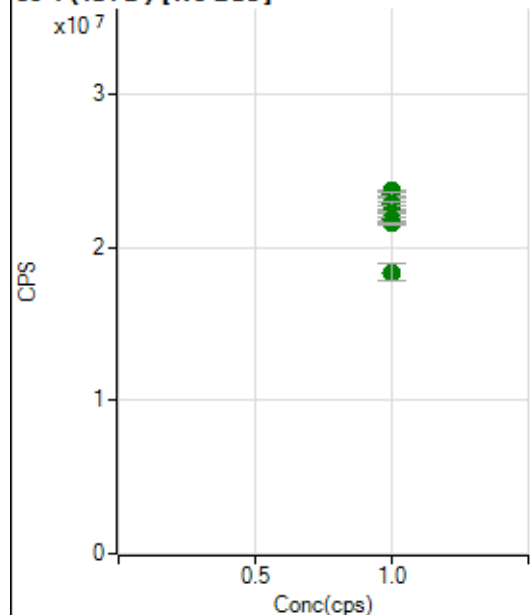
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5895799.77		A	1.4
2	☐	1.000		5771606.72		A	1.0
3	☐	1.000		5830476.51		A	0.7
4	☐	1.000		5628185.54		A	3.3
5	☐	1.000		5614196.65		A	2.0
6	☐	1.000		5407105.75		A	1.0
7	☐	1.000		5229171.24		A	1.6
8	☐	1.000		5162683.57		A	1.1
9	☐	1.000		4582874.20		A	5.2

45 Sc (ISTD) [No Gas]

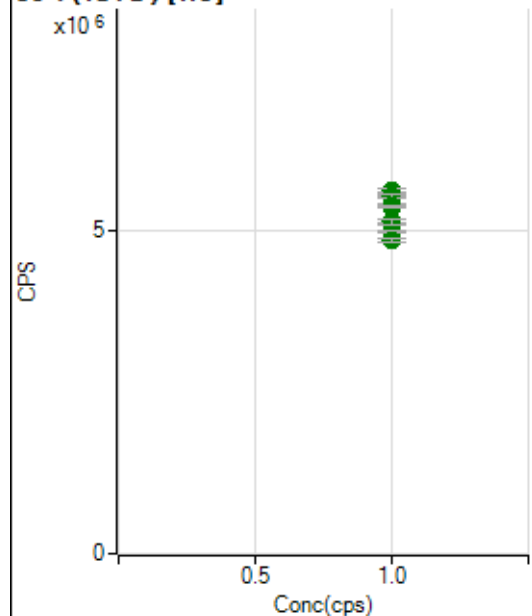
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7637363.70		A	1.1
2	☐	1.000		7565555.79		A	0.8
3	☐	1.000		7492986.69		A	0.5
4	☐	1.000		7223240.65		A	3.1
5	☐	1.000		7247578.22		A	0.5
6	☐	1.000		6947468.51		A	0.6
7	☐	1.000		6766052.47		A	0.9
8	☐	1.000		6721917.61		A	0.7
9	☐	1.000		5905013.66		A	5.7

45 Sc (ISTD) [He]

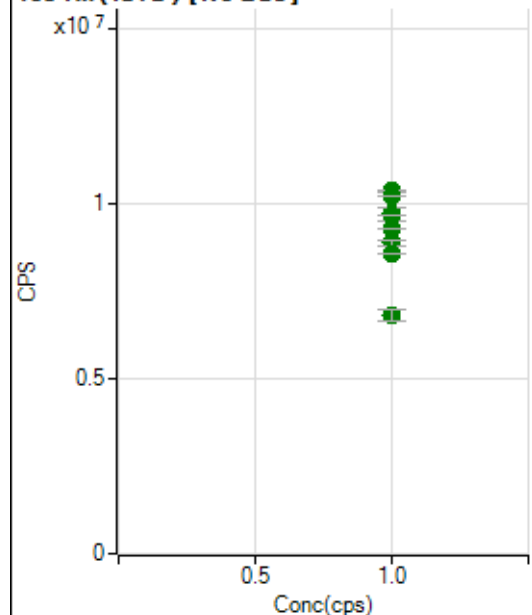
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		613027.12		P	0.5
2	☐	1.000		617633.70		P	0.5
3	☐	1.000		614379.27		P	0.1
4	☐	1.000		606737.86		P	0.3
5	☐	1.000		588381.33		P	0.4
6	☐	1.000		572047.13		P	0.5
7	☐	1.000		549994.40		P	0.6
8	☐	1.000		554222.81		P	1.7
9	☐	1.000		535546.63		P	0.1

89 Y (ISTD) [No Gas]

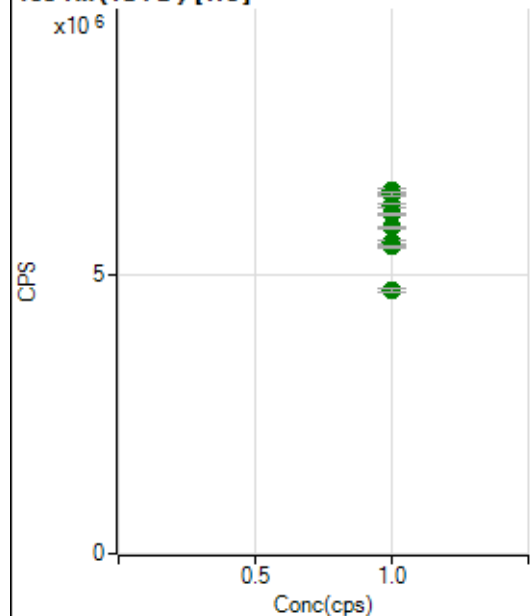
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		23729468.26		A	0.3
2	☐	1.000		23566687.15		A	1.2
3	☐	1.000		23536044.65		A	1.3
4	☐	1.000		22861299.66		A	3.2
5	☐	1.000		22879769.38		A	1.2
6	☐	1.000		22303184.53		A	0.8
7	☐	1.000		21906230.51		A	0.9
8	☐	1.000		21579734.12		A	0.8
9	☐	1.000		18381020.98		A	6.2

89 Y (ISTD) [He]

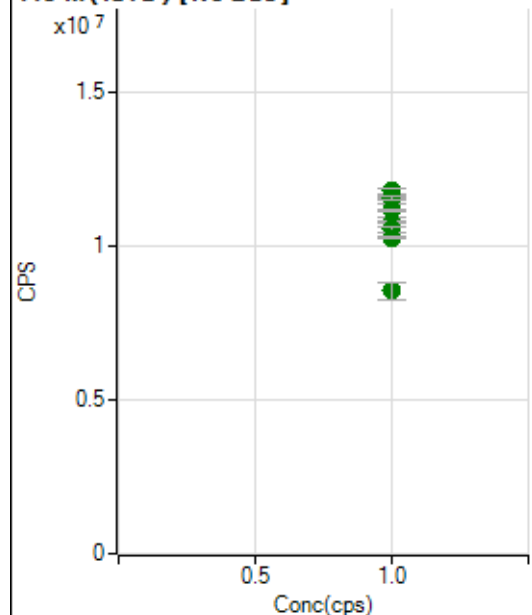
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5576283.74		A	0.9
2	☐	1.000		5628863.11		A	1.4
3	☐	1.000		5550097.38		A	1.2
4	☐	1.000		5410796.79		A	0.9
5	☐	1.000		5383757.21		A	0.6
6	☐	1.000		5164723.53		A	0.8
7	☐	1.000		4998725.69		A	0.1
8	☐	1.000		5155871.52		A	1.6
9	☐	1.000		4856240.83		A	1.4

103 Rh (ISTD) [No Gas]

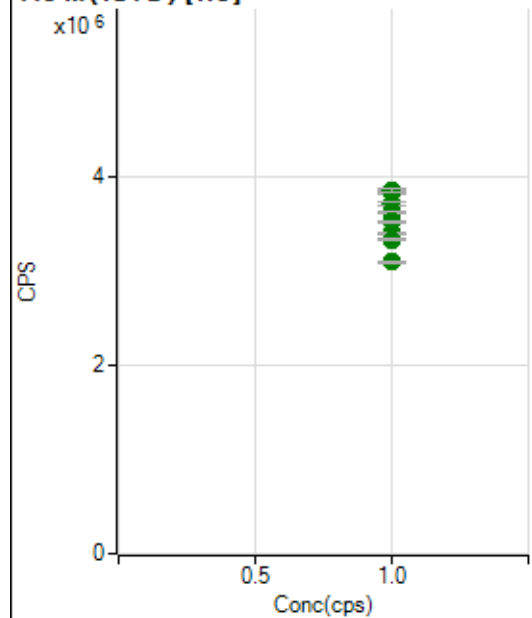
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10366164.84		A	0.5
2	☐	1.000		10219810.26		A	0.2
3	☐	1.000		10211131.51		A	0.2
4	☐	1.000		9717818.54		A	3.9
5	☐	1.000		9659440.55		A	0.0
6	☐	1.000		9276380.49		A	0.4
7	☐	1.000		8888524.94		A	1.7
8	☐	1.000		8581698.00		A	0.1
9	☐	1.000		6808670.59		A	5.0

103 Rh (ISTD) [He]

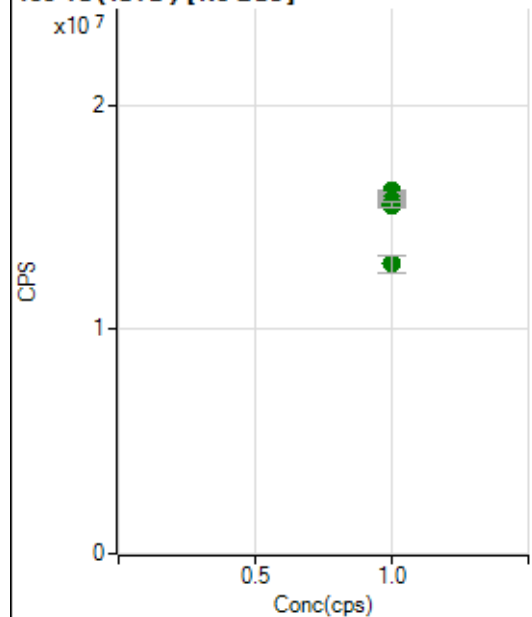
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6454091.85		A	0.5
2	☐	1.000		6505264.90		A	1.1
3	☐	1.000		6445997.75		A	1.0
4	☐	1.000		6242212.55		A	0.8
5	☐	1.000		6088992.13		A	0.2
6	☐	1.000		5846274.57		A	0.5
7	☐	1.000		5580122.87		A	0.9
8	☐	1.000		5509012.94		A	0.5
9	☐	1.000		4720300.90		A	1.4

115 In (ISTD) [No Gas]

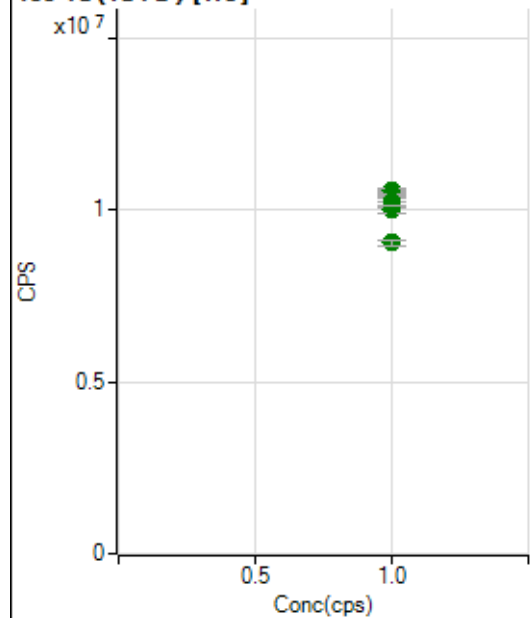
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		11814458.74		A	1.3
2	☐	1.000		11555721.83		A	0.4
3	☐	1.000		11568504.55		A	1.2
4	☐	1.000		11180417.52		A	3.9
5	☐	1.000		11188955.91		A	0.6
6	☐	1.000		10791949.32		A	0.6
7	☐	1.000		10560518.08		A	1.6
8	☐	1.000		10293548.63		A	0.8
9	☐	1.000		8570057.38		A	6.5

115 In (ISTD) [He]

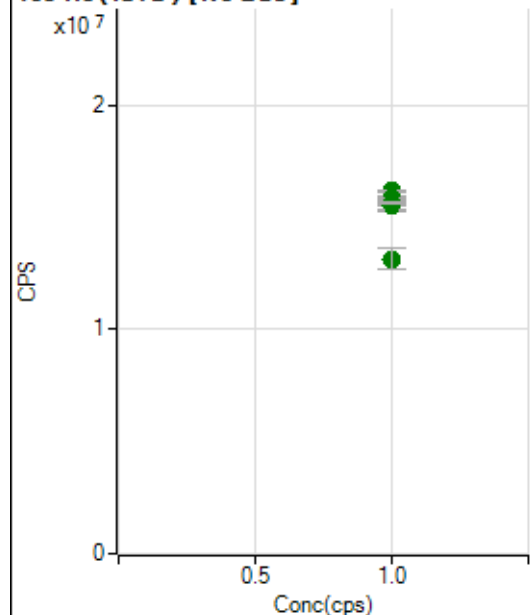
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3847188.74		A	0.7
2	☐	1.000		3851740.51		A	1.6
3	☐	1.000		3859004.18		A	1.1
4	☐	1.000		3722588.90		A	0.8
5	☐	1.000		3631895.64		A	0.8
6	☐	1.000		3531084.71		A	0.7
7	☐	1.000		3410194.73		A	0.7
8	☐	1.000		3337836.30		A	0.8
9	☐	1.000		3101499.74		A	1.1

159 Tb (ISTD) [No Gas]

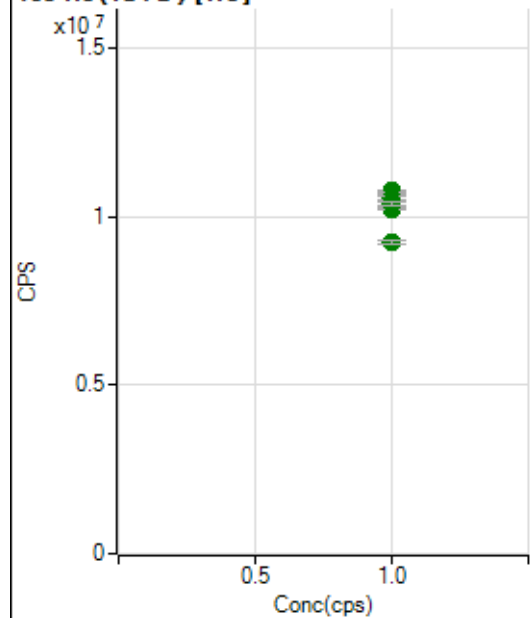
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		16192383.23		A	0.7
2	☐	1.000		16025793.65		A	0.4
3	☐	1.000		16075421.29		A	0.7
4	☐	1.000		15820129.21		A	3.6
5	☐	1.000		15827646.15		A	0.4
6	☐	1.000		15577123.80		A	1.0
7	☐	1.000		15603004.49		A	0.9
8	☐	1.000		15571953.52		A	1.3
9	☐	1.000		12922856.89		A	5.9

159 Tb (ISTD) [He]

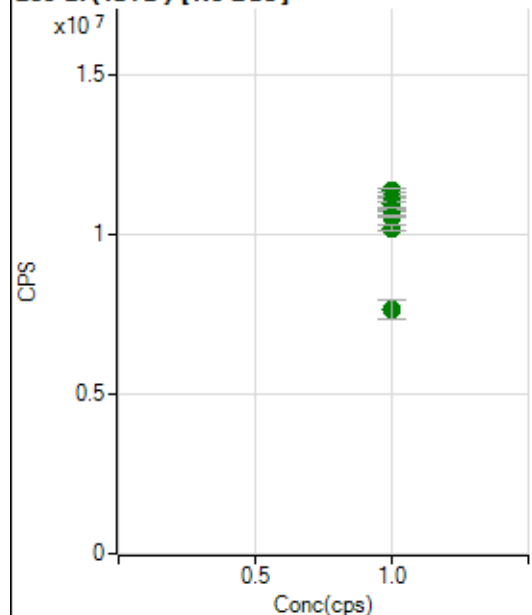
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10519432.27		A	0.9
2	☐	1.000		10540769.36		A	1.2
3	☐	1.000		10439511.03		A	1.1
4	☐	1.000		10437902.55		A	1.5
5	☐	1.000		10399453.45		A	0.4
6	☐	1.000		10222518.11		A	0.1
7	☐	1.000		9975975.96		A	1.4
8	☐	1.000		10119407.14		A	0.2
9	☐	1.000		9039310.14		A	1.7

165 Ho (ISTD) [No Gas]

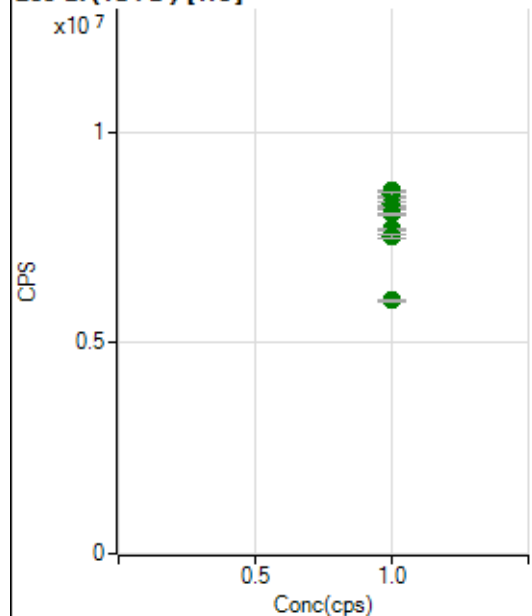
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		16165646.01		A	0.5
2	☐	1.000		15837546.71		A	0.8
3	☐	1.000		15888991.15		A	0.7
4	☐	1.000		15470920.60		A	2.8
5	☐	1.000		15779423.38		A	0.5
6	☐	1.000		15607513.24		A	1.3
7	☐	1.000		15471397.27		A	2.1
8	☐	1.000		15623278.52		A	0.9
9	☐	1.000		13142820.08		A	7.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10669338.59		A	0.5
2	☐	1.000		10759341.37		A	0.2
3	☐	1.000		10678152.13		A	0.3
4	☐	1.000		10690136.44		A	0.2
5	☐	1.000		10550099.42		A	0.6
6	☐	1.000		10453405.54		A	0.5
7	☐	1.000		10220875.13		A	0.7
8	☐	1.000		10386094.15		A	1.1
9	☐	1.000		9242244.24		A	1.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		11378537.82		A	1.1
2	☐	1.000		11140656.64		A	0.1
3	☐	1.000		11169286.85		A	0.3
4	☐	1.000		10976359.70		A	4.1
5	☐	1.000		11031365.60		A	0.3
6	☐	1.000		10817182.48		A	0.9
7	☐	1.000		10566432.69		A	0.4
8	☐	1.000		10197733.94		A	1.8
9	☐	1.000		7646800.37		A	7.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8514355.64		A	1.1
2	☐	1.000		8601481.54		A	0.7
3	☐	1.000		8507466.75		A	1.2
4	☐	1.000		8319229.18		A	1.1
5	☐	1.000		8200274.74		A	0.5
6	☐	1.000		8050206.27		A	0.5
7	☐	1.000		7699933.36		A	0.5
8	☐	1.000		7532445.51		A	1.0
9	☐	1.000		6007092.27		A	0.7

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7032022-MS.b
Acq. Date-Time 2022-03-20 16:56:19
Report Comment ---
Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		18718	187182.67			0.369	5.000
24		163090	1630898.73			0.689	5.000
25		19614	196136.06			0.312	5.000
26		21410	214096.75			0.395	5.000
59		32001	320007.45			0.485	5.000
113		17107	171068.59			0.579	5.000
115		49918	499178.81			1.790	5.000
206		28644	286439.98			0.651	5.000
207		24596	245961.73			0.893	5.000
208		58128	581278.35			0.758	5.000
220		0	1.20			75.691	

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

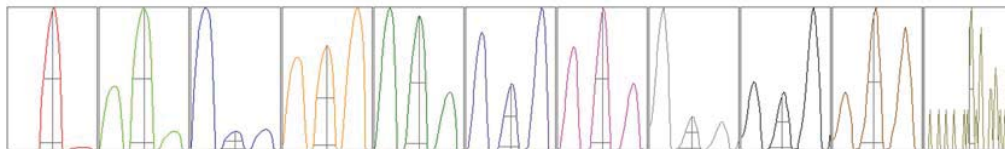
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	18658	18737	18780	18782	18633
24	162418	162857	164772	163543	161859
25	19557	19627	19548	19693	19643
26	21262	21448	21436	21476	21427
59	32112	32168	32049	31823	31852
113	17029	17276	17113	17059	17058
115	50963	50175	50026	49929	48496
206	28632	28943	28569	28640	28435
207	24506	24927	24704	24460	24383
208	58158	58817	57966	58094	57604

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	35229.79	9.05	8.90 - 9.10	
24	273124.24	24.05	23.90 - 24.10	
25	34519.83	25.00	24.90 - 25.10	
26	38915.97	26.00	25.90 - 26.10	
59	64246.91	59.05	58.90 - 59.10	
113	40671.14	113.05	112.90 - 113.10	
115	120247.52	115.05	114.90 - 115.10	
206	65486.51	205.95	205.90 - 206.10	
207	53179.96	206.90	206.90 - 207.10	
208	130378.56	207.90	207.90 - 208.10	
220	0.30	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.56	0.737	0.900	
24	0.63	0.787	0.900	
25	0.59	0.767	0.900	
26	0.58	0.743	0.900	
59	0.52	0.736	0.900	
113	0.43	0.672	0.900	
115	0.43	0.670	0.900	
206	0.44	0.724	0.900	
207	0.44	0.727	0.900	
208	0.44	0.747	0.900	
220	0.14	0.194		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.81 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	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.2 V	Deflect	13.8 V
Extract 2	-100.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-50 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	130 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9999	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	1.0 mm
---------	---------	---------	--------

EM

Discriminator	3.1 mV	Analog HV	2168 V	Pulse HV	1459 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		10769	107691.68			0.797	
89		56981	569812.54			0.557	
205		81985	819848.79			0.844	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	10714	10654	10797	10872	10809
89	57101	56418	57188	57116	57083
205	81693	82511	82912	81501	81308

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.81 L/min	Dilution Gas	0.40 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	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.1 V	Deflect	2.6 V
-----------	-------	------------	-------	---------	-------

US EPA Tune Check Report

Extract 2	-105.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-60 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9999	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	1.0 mm
---------	---------	---------	--------

EM

Discriminator	3.1 mV	Analog HV	2168 V	Pulse HV	1459 V
---------------	--------	-----------	--------	----------	--------