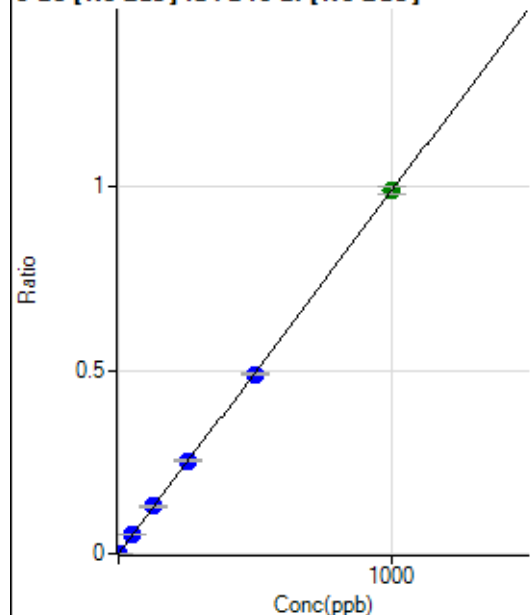


Batch Folder: D:\P8100218 MS.b\
Analysis File: P8100218 MS.batch.bin
DA Date-Time: 2018-10-02 18:49:19
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2018-10-02 18:18:50
2			
3	005CALS.d	S02	2018-10-02 18:26:18
4	006CALS.d	S03	2018-10-02 18:30:02
5	007CALS.d	S04	2018-10-02 18:33:46
6	008CALS.d	S05	2018-10-02 18:37:21
7	009CALS.d	S06	2018-10-02 18:40:51
8	010CALS.d	S07	2018-10-02 18:44:17
9	011CALS.d	S08	2018-10-02 18:47:39

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	212.97	0.0001	P	14.5
2	☐	0.100					
3	☐	1.000	1.068	1968.71	0.0012	P	4.0
4	☐	50.000	52.711	87144.02	0.0522	P	3.3
5	☐	125.000	129.927	212077.30	0.1285	P	2.0
6	☐	250.000	256.299	414702.08	0.2533	P	0.9
7	☐	500.000	494.858	780070.32	0.4889	P	0.7
8	☐	1000.000	1000.245	1540252.64	0.9882	A	2.0
9	☐			1055.63	0.0007	P	14.3

$$y = 9.8779\text{E-}004 * x + 1.3128\text{E-}004$$

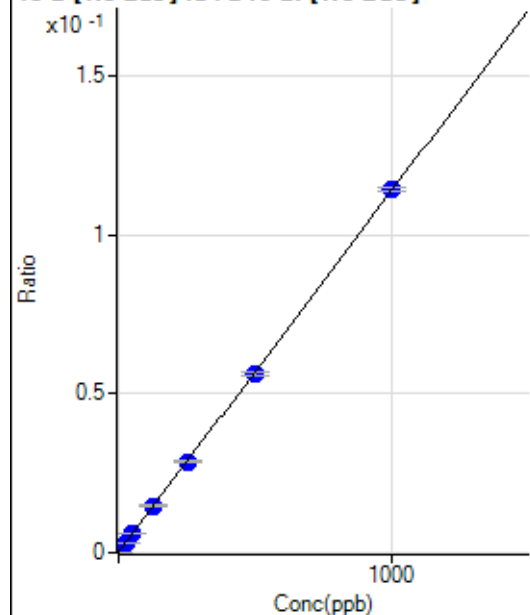
$$R = 1.0000$$

$$DL = 0.05775$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	336.13	0.0002	P	20.0
2	☐	2.500					
3	☐	25.000	24.079	4884.39	0.0029	P	4.4
4	☐	50.000	49.229	9686.94	0.0058	P	1.4
5	☐	125.000	127.218	24198.98	0.0147	P	2.8
6	☐	250.000	249.290	46713.42	0.0285	P	2.6
7	☐	500.000	493.525	89791.23	0.0563	P	1.3
8	☐	1000.000	1003.200	178008.48	0.1142	P	1.0
9	☐			7899.74	0.0052	P	7.4

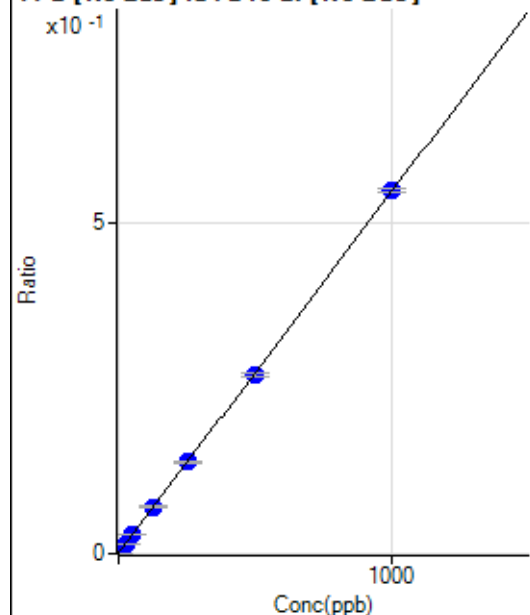
$$y = 1.1362\text{E-}004 * x + 2.0695\text{E-}004$$

$$R = 1.0000$$

$$DL = 1.094$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1672.40	0.0010	P	5.5
2	☐	2.500					
3	☐	25.000	23.387	22843.94	0.0138	P	3.6
4	☐	50.000	50.337	47474.06	0.0284	P	1.7
5	☐	125.000	126.875	115680.28	0.0701	P	4.2
6	☐	250.000	253.277	227428.93	0.1389	P	2.3
7	☐	500.000	491.858	428807.39	0.2688	P	2.1
8	☐	1000.000	1003.041	852803.89	0.5470	P	0.9
9	☐			36923.76	0.0244	P	8.0

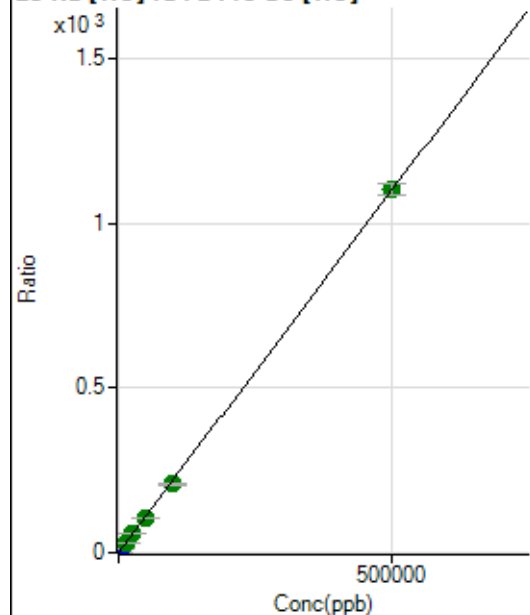
$$y = 5.4436\text{E-}004 * x + 0.0010$$

$$R = 0.9999$$

$$DL = 0.3138$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7544.02	0.1851	P	2.0
2	☐	50.000					
3	☐	500.000	478.513	50707.94	1.2360	P	1.2
4	☐	5000.000	4973.944	451577.02	11.1095	P	2.8
5	☐	12500.000	12696.562	1098882.99	28.0708	A	1.6
6	☐	25000.000	25620.910	2065669.01	56.4569	A	2.1
7	☐	50000.000	48729.315	3813426.47	107.2104	A	0.9
8	☐	100000.00	94257.200	7399349.82	207.2044	A	1.6
9	☐	500000.00	501239.95	38849493.58	1,101.070	A	3.0

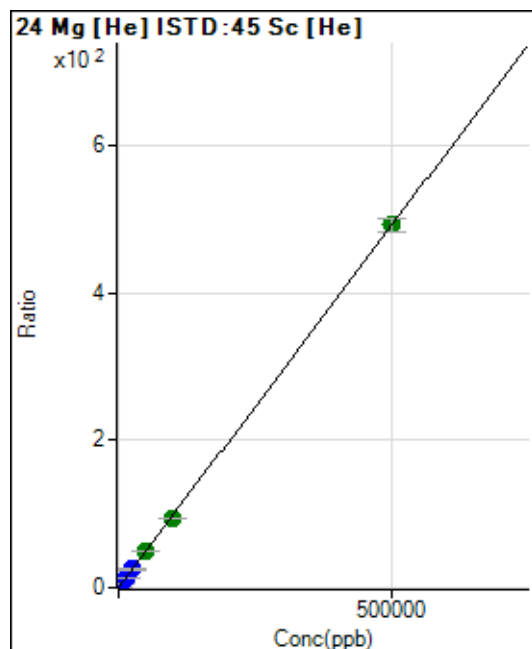
$$y = 0.0022 * x + 0.1851$$

$$R = 0.9999$$

$$DL = 4.936$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	291.68	0.0072	P	5.0
2	☐	50.000					
3	☐	500.000	484.340	19797.92	0.4825	P	1.5
4	☐	5000.000	5013.902	200327.83	4.9282	P	2.6
5	☐	12500.000	12433.997	478024.50	12.2108	P	1.5
6	☐	25000.000	25305.278	908991.29	24.8436	P	2.1
7	☐	50000.000	49820.621	1739602.58	48.9048	A	0.4
8	☐	100000.00	95400.823	3343651.37	93.6406	A	2.3
9	☐	500000.00	500924.03	17345965.14	491.6514	A	3.4

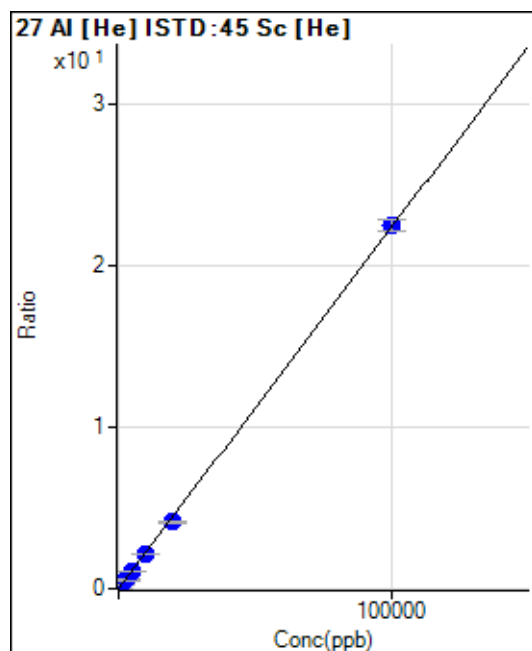
$$y = 9.8147\text{E-}004 * x + 0.0072$$

$$R = 1.0000$$

$$DL = 1.092$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.67	0.0003	P	12.6
2	☐	2.000					
3	☐	20.000	19.596	191.72	0.0047	P	4.3
4	☐	1000.000	957.925	8727.44	0.2146	P	1.4
5	☐	2500.000	2398.253	21020.02	0.5370	P	1.6
6	☐	5000.000	4837.216	39612.35	1.0827	P	3.1
7	☐	10000.000	9416.014	74960.94	2.1073	P	0.3
8	☐	20000.000	18394.930	147011.06	4.1166	P	1.3
9	☐	100000.00	100390.51	792623.64	22.4650	P	3.2

$$y = 2.2377\text{E-}004 * x + 2.8632\text{E-}004$$

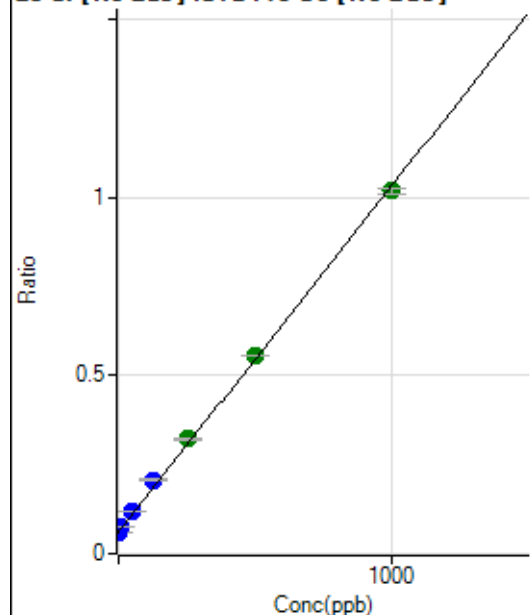
$$R = 0.9999$$

$$DL = 0.4844$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	277388.39	0.0609	P	3.6
2	☐	1.000					
3	☐	10.000	14.546	351889.95	0.0750	P	2.1
4	☐	50.000	60.053	558422.22	0.1192	P	2.4
5	☐	125.000	149.653	953314.24	0.2061	P	2.1
6	☐	250.000	268.724	1451588.80	0.3216	A	0.8
7	☐	500.000	511.021	2441105.37	0.5566	A	0.3
8	☐	1000.000	986.179	4404820.63	1.0176	A	1.8
9	☐			382761.04	0.0883	P	0.2

$$y = 9.7009\text{E-}004 * x + 0.0609$$

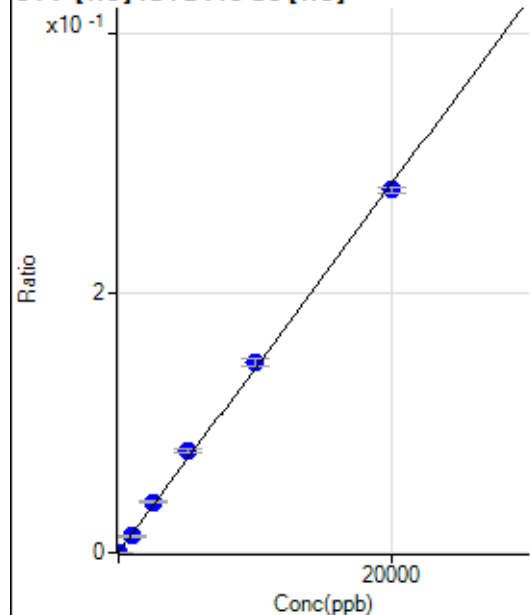
$$R = 0.9996$$

$$DL = 6.859$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.100	8.33	0.0002	P	101.3
2	☐	0.000					
3	☐	0.000	-0.100	8.33	0.0002	P	1.1
4	☐	1000.000	921.099	538.93	0.0133	P	10.8
5	☐	2500.000	2739.077	1527.94	0.0390	P	2.8
6	☐	5000.000	5496.145	2858.76	0.0781	P	3.3
7	☐	10000.000	10343.123	5220.64	0.1468	P	3.8
8	☐	20000.000	19678.463	9967.87	0.2791	P	1.7
9	☐			8.33	0.0002	P	101.7

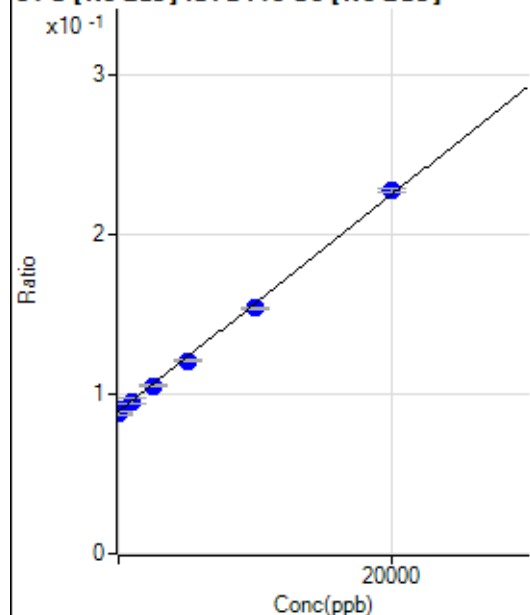
$$y = 1.4173\text{E-}005 * x + 2.0446\text{E-}004$$

$$R = 0.9993$$

$$DL = 22.29$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	136.811	410057.54	0.0900	P	3.7
2	☐	0.000					
3	☐	0.000	-136.811	413596.17	0.0882	P	2.4
4	☐	1000.000	945.239	447513.88	0.0955	P	3.8
5	☐	2500.000	2397.792	487544.77	0.1054	P	2.0
6	☐	5000.000	4692.884	546131.15	0.1210	P	1.0
7	☐	10000.000	9520.366	674489.69	0.1538	P	0.8
8	☐	20000.000	20332.110	983940.49	0.2273	P	1.0
9	☐			344360.32	0.0794	P	0.9

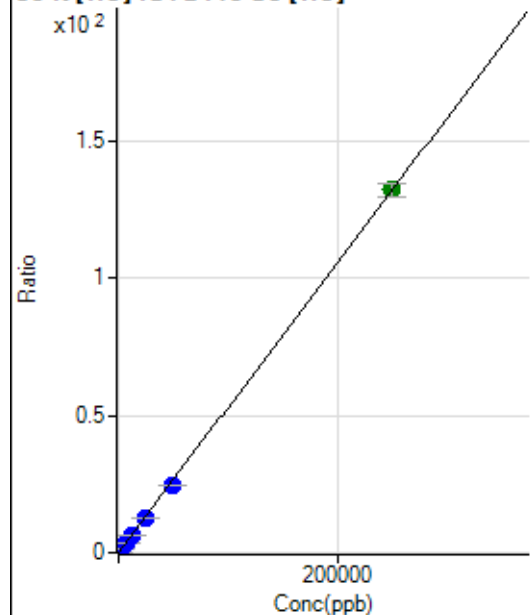
$$y = 6.7972\text{E-}006 * x + 0.0891$$

$$R = 0.9994$$

$$DL = 1200$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3333.89	0.0818	P	1.4
2	☐	50.000					
3	☐	500.000	477.045	13665.50	0.3331	P	1.1
4	☐	2500.000	2509.349	57055.79	1.4035	P	2.4
5	☐	6250.000	6119.718	129398.39	3.3053	P	1.3
6	☐	12500.000	12321.180	240448.65	6.5718	P	2.2
7	☐	25000.000	23883.644	450379.84	12.6622	P	1.3
8	☐	50000.000	46422.905	876149.69	24.5344	P	1.5
9	☐	250000.00	250839.20	4663999.80	132.2079	A	3.9

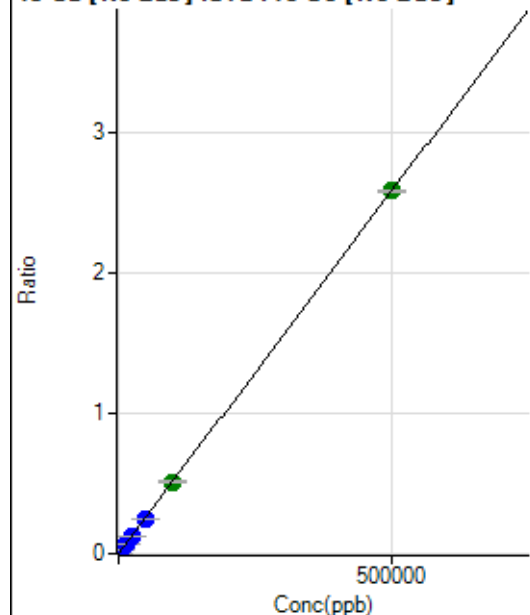
$$y = 5.2674\text{E-}004 * x + 0.0818$$

$$R = 0.9999$$

$$DL = 6.721$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	497.26	0.0001	P	19.4
2	☐	50.000					
3	☐	500.000	453.375	11480.21	0.0024	P	4.4
4	☐	5000.000	4867.605	118155.40	0.0252	P	3.9
5	☐	12500.000	12115.521	289655.97	0.0626	P	1.6
6	☐	25000.000	24469.365	570288.95	0.1263	P	0.3
7	☐	50000.000	48559.959	1099047.37	0.2506	P	0.8
8	☐	100000.00	98870.462	2208369.39	0.5102	A	1.4
9	☐	500000.00	500407.42	11189442.26	2.5816	A	0.6

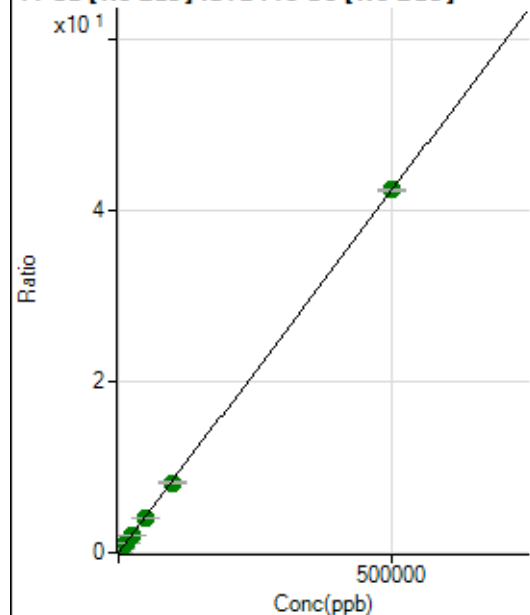
$$y = 5.1587\text{E-}006 * x + 1.0885\text{E-}004$$

$$R = 1.0000$$

$$DL = 12.29$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13398.72	0.0029	P	3.2
2	☐	50.000					
3	☐	500.000	452.955	193383.76	0.0412	P	1.1
4	☐	5000.000	4916.137	1960063.91	0.4183	A	3.7
5	☐	12500.000	12144.288	4760932.83	1.0291	A	1.8
6	☐	25000.000	24408.844	9323094.39	2.0654	A	1.2
7	☐	50000.000	48114.713	17842626.96	4.0685	A	0.1
8	☐	100000.00	96285.292	35231796.97	8.1389	A	1.4
9	☐	500000.00	500970.80	183490534.6	42.3340	A	0.7

$$y = 8.4498\text{E-}005 * x + 0.0029$$

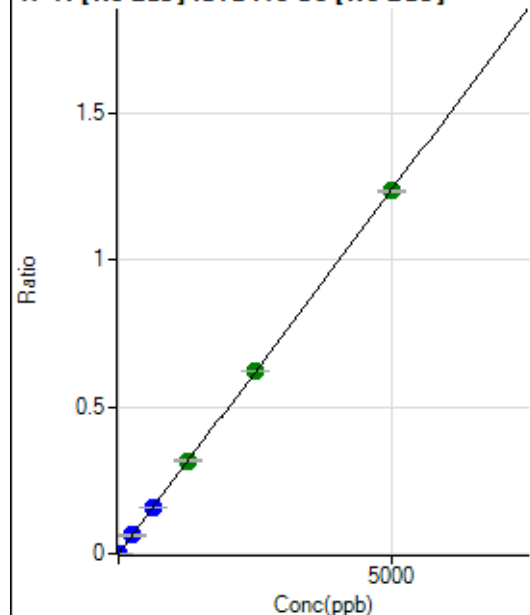
$$R = 1.0000$$

$$DL = 3.37$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	69.45	0.0000	P	38.1
2	☐	0.500					
3	☐	5.000	5.143	6040.46	0.0013	P	2.4
4	☐	250.000	251.655	291701.68	0.0623	P	3.7
5	☐	625.000	630.867	721897.79	0.1561	P	2.1
6	☐	1250.000	1281.193	1430412.91	0.3169	A	1.3
7	☐	2500.000	2504.797	2716976.52	0.6195	A	0.3
8	☐	5000.000	4988.987	5341863.27	1.2340	A	0.8
9	☐			1502.93	0.0003	P	14.0

$$y = 2.4734\text{E-}004 * x + 1.5239\text{E-}005$$

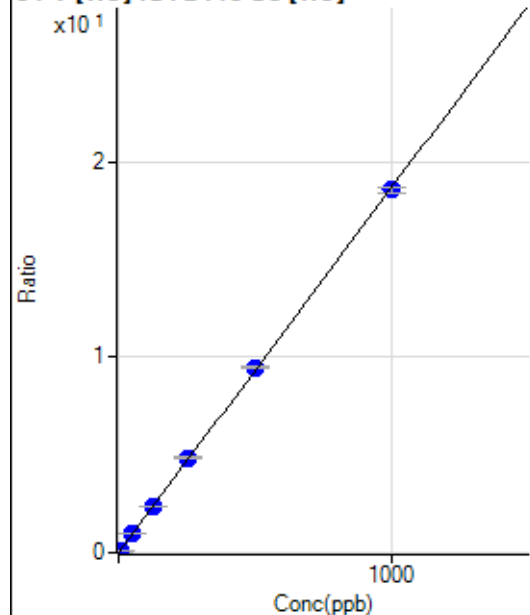
$$R = 1.0000$$

$$DL = 0.07043$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12.22	0.0003	P	14.3
2	☐	0.500					
3	☐	5.000	4.772	3668.32	0.0894	P	4.9
4	☐	50.000	50.989	38719.17	0.9523	P	1.4
5	☐	125.000	127.341	93088.85	2.3779	P	1.6
6	☐	250.000	259.426	177241.09	4.8441	P	2.0
7	☐	500.000	506.437	336353.33	9.4562	P	0.9
8	☐	1000.000	994.084	662818.14	18.5613	P	1.7
9	☐			398.90	0.0113	P	16.5

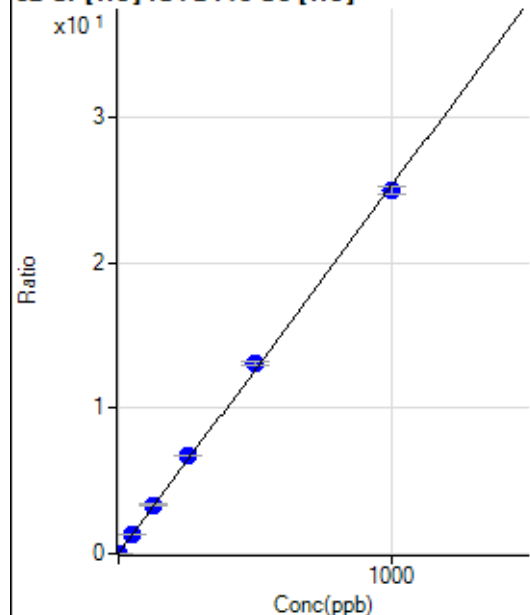
$$y = 0.0187 * x + 2.9935\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.006867$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	464.46	0.0114	P	10.5
2	☐	0.200					
3	☐	2.000	2.007	2548.05	0.0621	P	3.6
4	☐	50.000	52.320	54201.28	1.3332	P	2.0
5	☐	125.000	132.757	131745.18	3.3654	P	1.6
6	☐	250.000	266.227	246521.45	6.7374	P	1.5
7	☐	500.000	516.793	464797.17	13.0677	P	1.4
8	☐	1000.000	986.461	890327.01	24.9334	P	2.1
9	☐			42367.44	1.2009	P	3.4

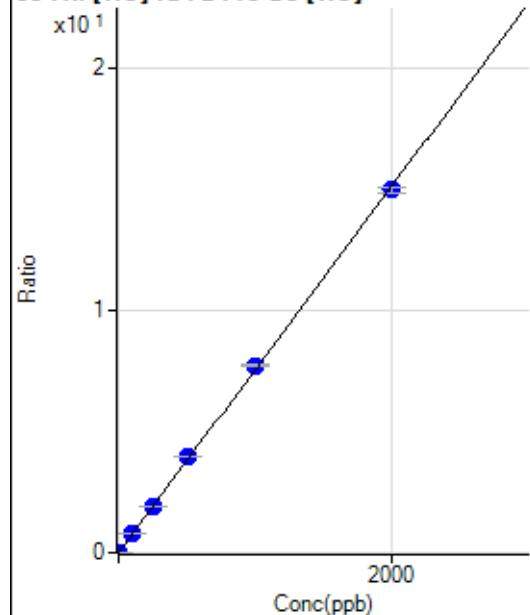
$$y = 0.0253 * x + 0.0114$$

$$R = 0.9996$$

$$DL = 0.1419$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	33.33	0.0008	P	56.7
2	☐	0.100					
3	☐	1.000	1.037	354.45	0.0086	P	14.6
4	☐	100.000	101.171	31064.73	0.7642	P	2.4
5	☐	250.000	253.488	74900.45	1.9134	P	2.0
6	☐	500.000	524.259	144764.05	3.9564	P	1.5
7	☐	1000.000	1023.127	274601.72	7.7203	P	1.3
8	☐	2000.000	1981.877	534032.71	14.9541	P	1.4
9	☐			3383.80	0.0958	P	0.7

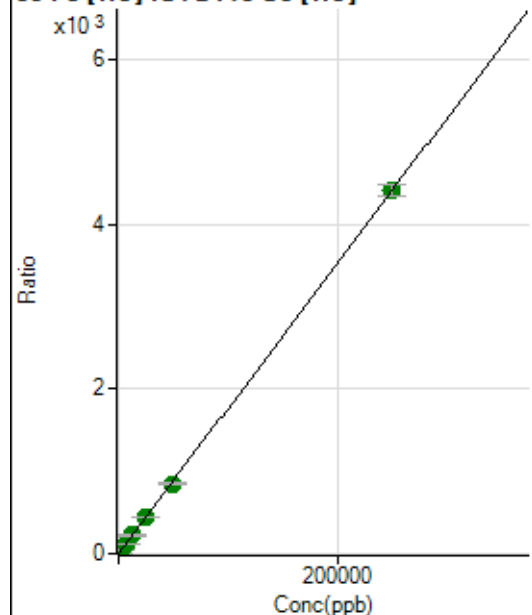
$$y = 0.0075 * x + 8.2028E-004$$

$$R = 0.9998$$

$$DL = 0.1849$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1131.57	0.0278	P	21.8
2	☐	5.000					
3	☐	50.000	48.722	36351.46	0.8861	P	1.6
4	☐	2500.000	2499.271	1790940.64	44.0568	A	2.5
5	☐	6250.000	6189.911	4270244.71	109.0739	A	0.8
6	☐	12500.000	12620.057	8135497.81	222.3521	A	2.1
7	☐	25000.000	24875.343	15588707.06	438.2504	A	0.7
8	☐	50000.000	48106.860	30264057.62	847.5142	A	1.8
9	☐	250000.00	250386.60	155638862.7	4,411.025	A	3.0

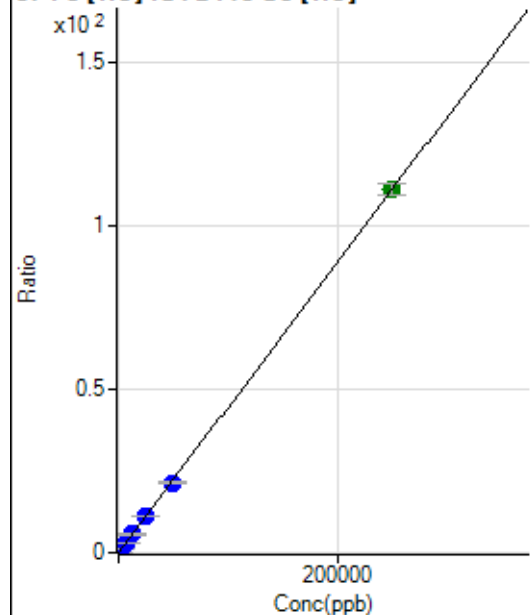
$$y = 0.0176 * x + 0.0278$$

$$R = 1.0000$$

$$DL = 1.032$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	24.07	0.0006	P	11.7
2	☐	5.000					
3	☐	50.000	49.003	916.72	0.0223	P	12.5
4	☐	2500.000	2464.659	44499.18	1.0949	P	3.8
5	☐	6250.000	6167.968	107246.71	2.7392	P	0.2
6	☐	12500.000	12682.757	206054.14	5.6318	P	2.3
7	☐	25000.000	24823.572	392055.89	11.0223	P	1.1
8	☐	50000.000	48264.380	765298.07	21.4301	P	1.4
9	☐	250000.00	250358.03	3922001.54	111.1602	A	3.2

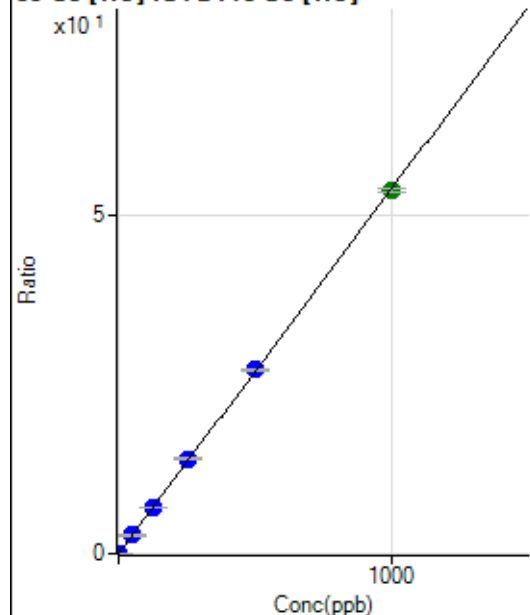
$$y = 4.4400E-004 * x + 5.8992E-004$$

$$R = 1.0000$$

$$DL = 0.4664$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	77.78	0.0019	P	27.3
2	☐	0.100					
3	☐	1.000	1.003	2300.23	0.0561	P	1.5
4	☐	50.000	50.216	110276.47	2.7127	P	2.3
5	☐	125.000	126.436	267267.82	6.8272	P	1.5
6	☐	250.000	259.413	512447.16	14.0056	P	2.0
7	☐	500.000	505.375	970434.40	27.2831	P	1.1
8	☐	1000.000	994.769	1917813.22	53.7017	A	1.2
9	☐			24636.38	0.6982	P	2.5

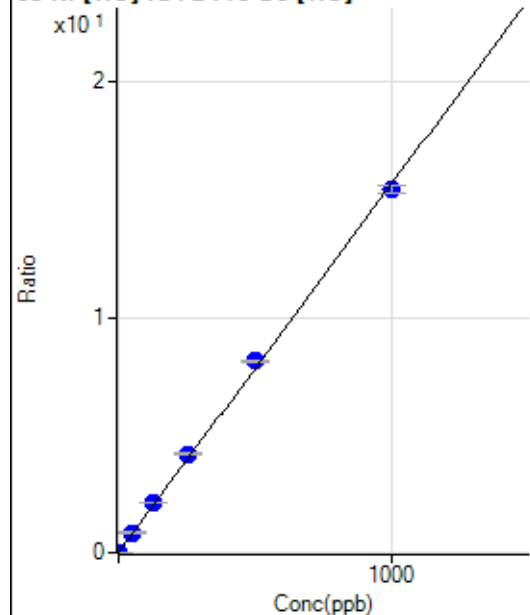
$$y = 0.0540 * x + 0.0019$$

$$R = 0.9999$$

$$DL = 0.02886$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	338.90	0.0083	P	18.6
2	☐	0.100					
3	☐	1.000	1.015	993.38	0.0242	P	7.5
4	☐	50.000	53.671	34467.26	0.8478	P	2.5
5	☐	125.000	133.894	82316.82	2.1026	P	0.8
6	☐	250.000	267.925	153645.40	4.1990	P	1.1
7	☐	500.000	520.034	289606.04	8.1422	P	1.3
8	☐	1000.000	984.207	549978.85	15.4023	P	2.2
9	☐			21213.04	0.6012	P	2.9

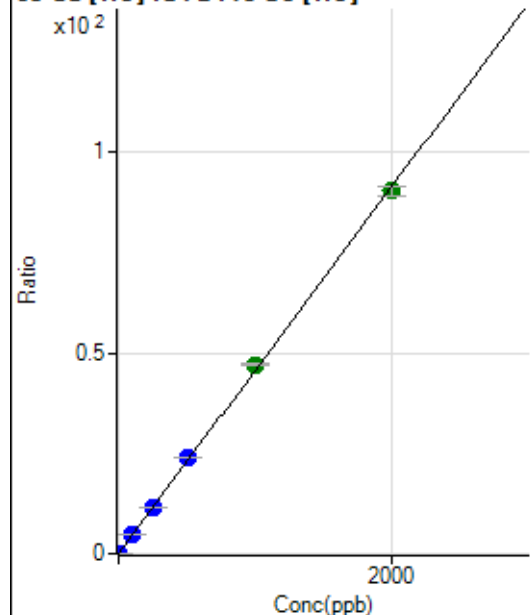
$$y = 0.0156 * x + 0.0083$$

$$R = 0.9995$$

$$DL = 0.2967$$

Weight: <None>

Min Conc: 0

⁶³Cu [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	305.56	0.0075	P	7.3
2	☐	0.200					
3	☐	2.000	1.989	4031.77	0.0983	P	2.8
4	☐	100.000	101.738	189026.83	4.6506	P	3.3
5	☐	250.000	254.273	454595.58	11.6120	P	1.2
6	☐	500.000	524.631	876357.05	23.9505	P	1.5
7	☐	1000.000	1028.986	1670648.62	46.9682	A	0.8
8	☐	2000.000	1978.728	3224713.25	90.3124	A	2.5
9	☐			7556.62	0.2140	P	0.8

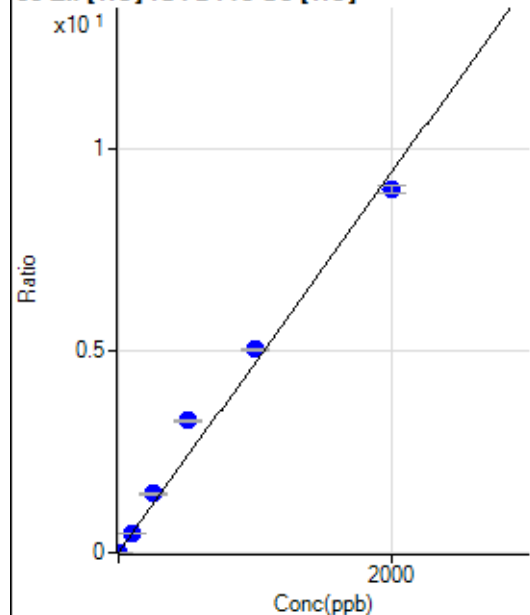
$$y = 0.0456 * x + 0.0075$$

$$R = 0.9998$$

$$DL = 0.03572$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	103.34	0.0025	P	30.2
2	☐	0.200					
3	☐	2.000	2.085	506.68	0.0124	P	9.7
4	☐	100.000	101.211	19458.30	0.4787	P	2.7
5	☐	250.000	309.825	57160.65	1.4601	P	1.6
6	☐	500.000	693.884	119530.54	3.2669	P	2.2
7	☐	1000.000	1068.681	178919.33	5.0302	P	1.1
8	☐	2000.000	1909.649	320895.59	8.9865	P	2.0
9	☐			22964.82	0.6509	P	2.9

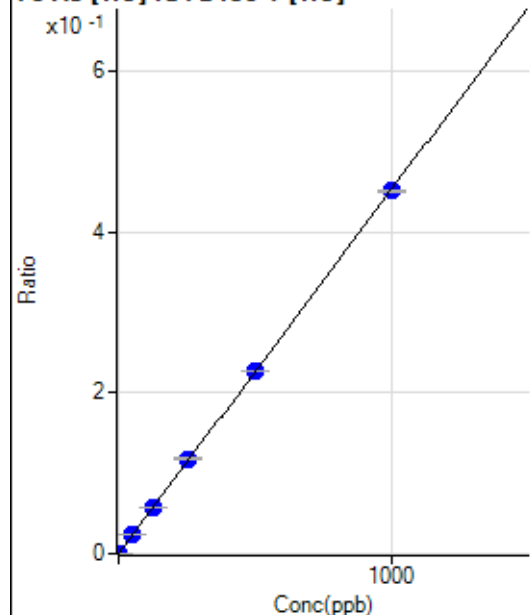
$$y = 0.0047 * x + 0.0025$$

$$R = 0.9931$$

$$DL = 0.4897$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3.70	0.0000	P	49.8
2	☐	0.100					
3	☐	1.000	0.887	114.20	0.0004	P	22.6
4	☐	50.000	51.318	6347.19	0.0232	P	2.8
5	☐	125.000	127.702	15330.20	0.0578	P	0.8
6	☐	250.000	260.152	29637.99	0.1178	P	1.7
7	☐	500.000	501.839	56287.50	0.2272	P	0.3
8	☐	1000.000	996.139	111285.68	0.4510	P	0.5
9	☐			190.74	0.0008	P	5.6

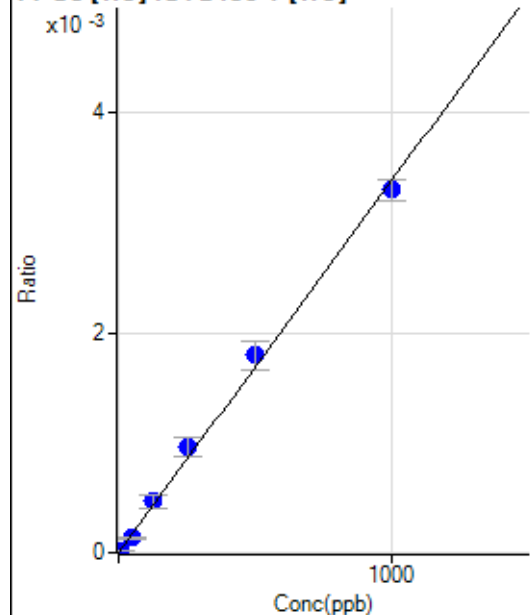
$$y = 4.5269\text{E-}004 * x + 1.3491\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.04453$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	0.500					
3	☐	5.000	5.980	5.56	0.0000	P	34.9
4	☐	50.000	39.657	36.67	0.0001	P	17.7
5	☐	125.000	138.654	124.45	0.0005	P	25.6
6	☐	250.000	283.289	241.12	0.0010	P	18.4
7	☐	500.000	530.058	444.46	0.0018	P	15.1
8	☐	1000.000	975.455	814.48	0.0033	P	6.0
9	☐			0.00	0.0000	P	

$$y = 3.3843\text{E-}006 * x + 0.0000\text{E+}000$$

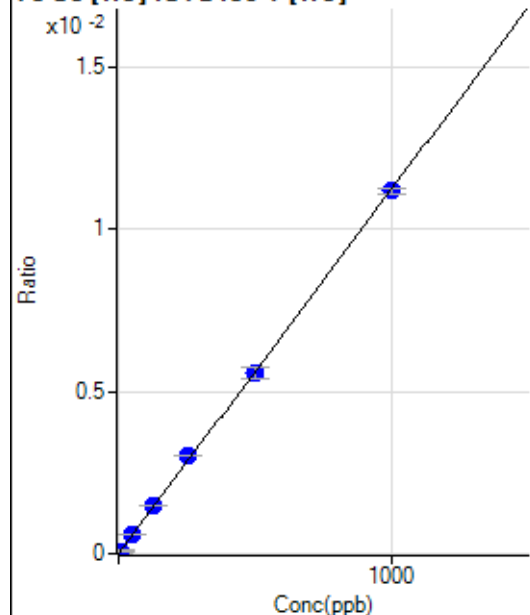
$$R = 0.9984$$

$$DL = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.62	0.0000	P	173.2
2	☐	0.500					
3	☐	5.000	6.991	22.22	0.0001	P	33.0
4	☐	50.000	52.703	162.35	0.0006	P	7.6
5	☐	125.000	131.121	391.37	0.0015	P	1.2
6	☐	250.000	269.715	763.61	0.0030	P	0.9
7	☐	500.000	497.198	1385.27	0.0056	P	6.4
8	☐	1000.000	995.562	2762.03	0.0112	P	1.9
9	☐			3.09	0.0000	P	70.6

$$y = 1.1241\text{E-}005 * x + 2.2720\text{E-}006$$

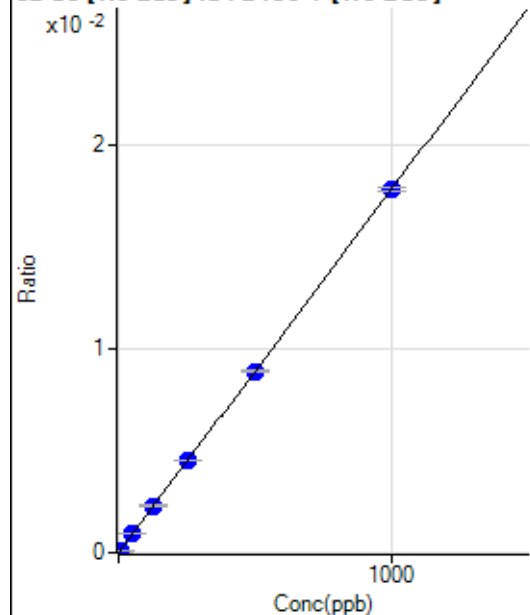
$$R = 0.9998$$

$$DL = 1.05$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	-13.42	0.0000	P	-168.
2	☐	0.500					
3	☐	5.000	5.291	727.49	0.0001	P	4.1
4	☐	50.000	51.313	7136.06	0.0009	P	2.5
5	☐	125.000	129.581	17793.28	0.0023	P	0.5
6	☐	250.000	254.353	34855.02	0.0045	P	0.5
7	☐	500.000	499.635	67179.05	0.0089	P	1.9
8	☐	1000.000	998.454	133132.76	0.0178	P	0.9
9	☐			44.56	0.0000	P	113.1

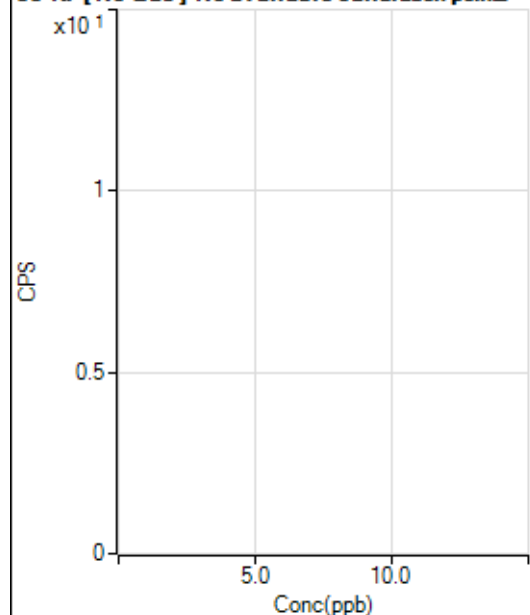
$$y = 1.7788\text{E-}005 * x - 1.7346\text{E-}006$$

$$R = 1.0000$$

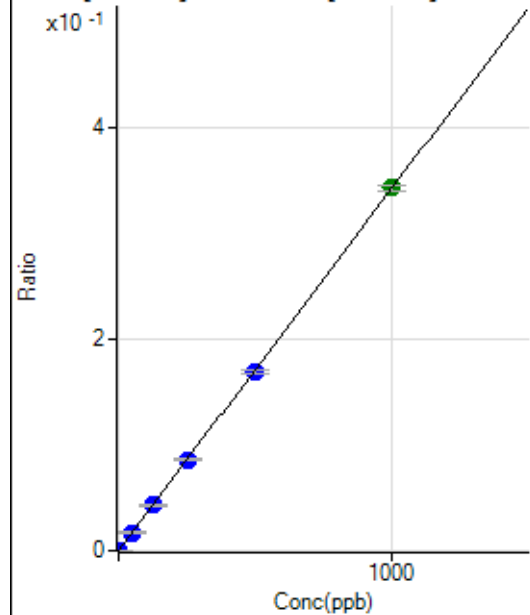
$$DL = 0.494$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			431.13		P	3.1
2	☐						
3	☐			410.01		P	6.1
4	☐			438.90		P	12.6
5	☐			361.12		P	10.6
6	☐			380.01		P	3.2
7	☐			394.46		P	10.8
8	☐			371.12		P	13.2
9	☐			434.46		P	11.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	686.16	0.0001	P	7.8
2	☐	0.100					
3	☐	1.000	0.930	3217.18	0.0004	P	1.4
4	☐	50.000	49.867	134373.40	0.0172	P	2.6
5	☐	125.000	125.388	332185.82	0.0430	P	1.2
6	☐	250.000	251.199	663193.53	0.0861	P	1.0
7	☐	500.000	493.364	1277251.96	0.1689	P	1.6
8	☐	1000.000	1002.976	2573846.24	0.3433	A	1.6
9	☐			11872.31	0.0016	P	0.9

$$y = 3.4222\text{E-}004 * x + 9.0397\text{E-}005$$

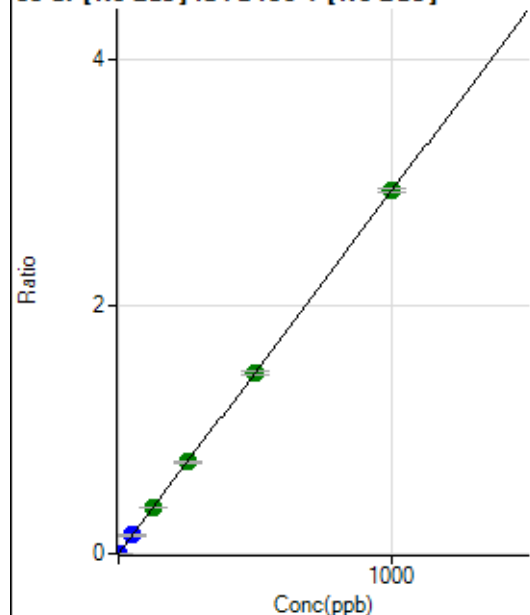
$$R = 1.0000$$

$$DL = 0.06219$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	175.01	0.0000	P	27.9
2	☐	0.100					
3	☐	1.000	0.986	22953.36	0.0029	P	0.8
4	☐	50.000	50.691	1164380.91	0.1486	P	1.9
5	☐	125.000	128.366	2907703.91	0.3764	A	0.8
6	☐	250.000	252.527	5706185.59	0.7404	A	0.7
7	☐	500.000	496.727	11011210.58	1.4564	A	1.8
8	☐	1000.000	1000.549	21992509.00	2.9336	A	1.2
9	☐			101327.63	0.0137	P	1.7

$$y = 0.0029 * x + 2.3021E-005$$

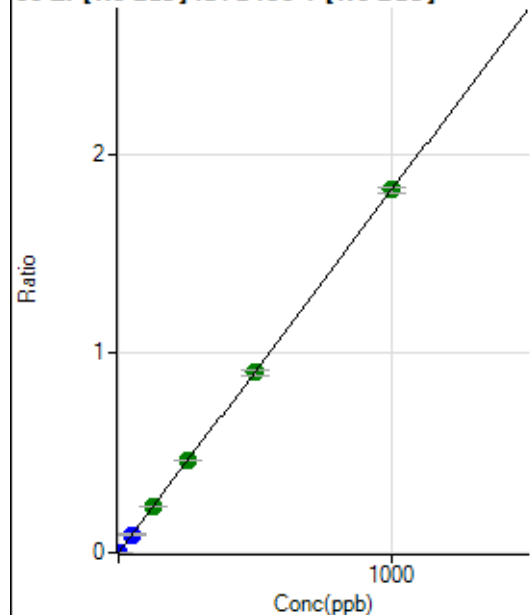
$$R = 1.0000$$

$$DL = 0.006575$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	650.05	0.0001	P	4.0
2	☐	0.100					
3	☐	1.000	0.903	13624.04	0.0017	P	4.5
4	☐	50.000	49.969	713362.98	0.0911	P	2.3
5	☐	125.000	128.150	1803302.21	0.2334	A	1.4
6	☐	250.000	254.062	3565963.32	0.4627	A	0.6
7	☐	500.000	495.961	6828213.95	0.9032	A	2.2
8	☐	1000.000	1000.612	13659597.70	1.8221	A	1.4
9	☐			4164.74	0.0006	P	6.6

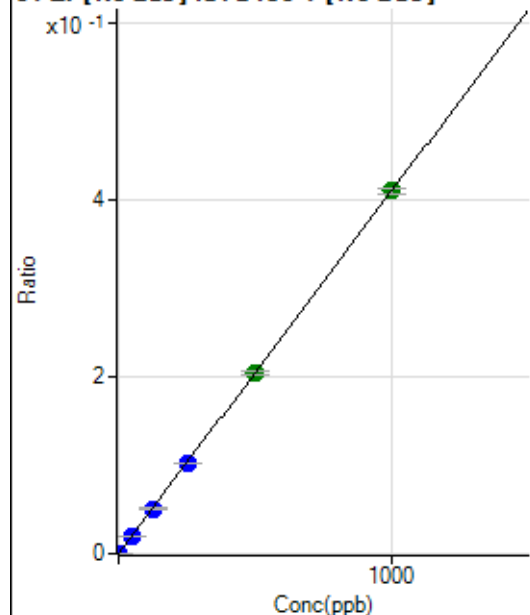
$$y = 0.0018 * x + 8.5650E-005$$

$$R = 1.0000$$

$$DL = 0.005623$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	177.79	0.0000	P	18.2
2	☐	0.100					
3	☐	1.000	0.854	2936.58	0.0004	P	2.6
4	☐	50.000	48.823	156730.32	0.0200	P	1.3
5	☐	125.000	124.324	393284.59	0.0509	P	0.6
6	☐	250.000	249.119	785984.63	0.1020	P	0.5
7	☐	500.000	499.430	1545717.40	0.2044	A	1.5
8	☐	1000.000	1000.649	3070412.39	0.4096	A	1.8
9	☐			905.63	0.0001	P	8.9

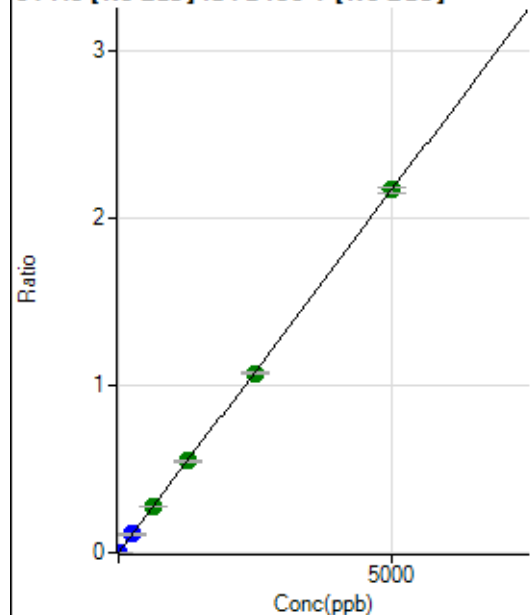
$$y = 4.0929\text{E-}004 * x + 2.3497\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.03133$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	333.36	0.0000	P	3.7
2	☐	0.500					
3	☐	5.000	4.735	16524.66	0.0021	P	1.2
4	☐	250.000	252.038	856854.69	0.1094	P	1.9
5	☐	625.000	639.642	2144113.66	0.2775	A	1.0
6	☐	1250.000	1260.497	4214833.42	0.5469	A	1.0
7	☐	2500.000	2479.711	8134446.54	1.0759	A	1.5
8	☐	5000.000	5005.589	16280204.18	2.1717	A	1.5
9	☐			20418.79	0.0028	P	4.7

$$y = 4.3385\text{E-}004 * x + 4.3926\text{E-}005$$

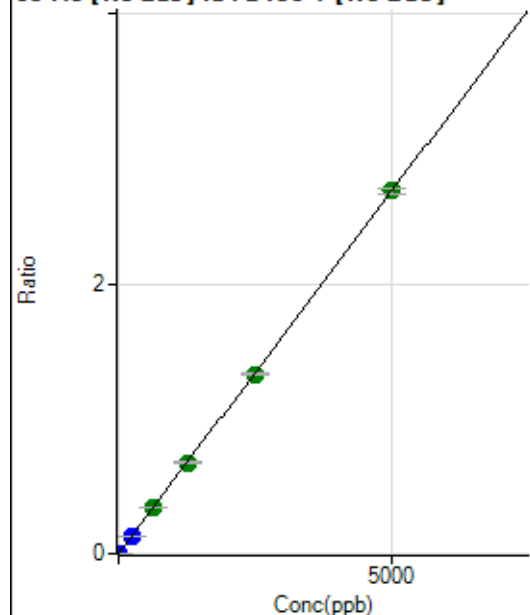
$$R = 1.0000$$

$$DL = 0.01109$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	138.90	0.0000	P	6.4
2	☐	0.500					
3	☐	5.000	4.767	20296.42	0.0026	P	1.6
4	☐	250.000	249.099	1047524.51	0.1337	P	1.8
5	☐	625.000	634.359	2630635.26	0.3405	A	0.9
6	☐	1250.000	1258.462	5206077.68	0.6755	A	0.4
7	☐	2500.000	2479.364	10062305.61	1.3309	A	1.7
8	☐	5000.000	5007.078	20148248.19	2.6877	A	1.5
9	☐			33506.23	0.0045	P	3.6

$$y = 5.3677\text{E-}004 * x + 1.8271\text{E-}005$$

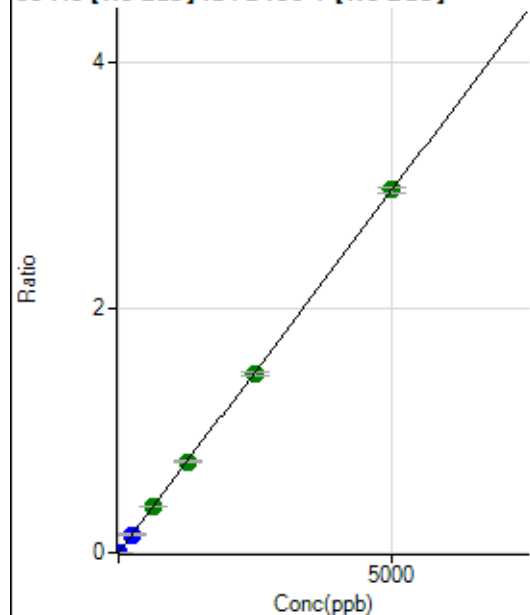
$$R = 1.0000$$

$$DL = 0.006493$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	225.01	0.0000	P	43.1
2	☐	0.500					
3	☐	5.000	4.821	22691.97	0.0029	P	1.7
4	☐	250.000	250.388	1160507.43	0.1482	P	1.8
5	☐	625.000	640.123	2925581.64	0.3787	A	1.7
6	☐	1250.000	1257.492	5733165.19	0.7439	A	1.0
7	☐	2500.000	2472.338	11058031.24	1.4626	A	1.8
8	☐	5000.000	5010.048	22217834.18	2.9638	A	1.9
9	☐			37915.35	0.0051	P	4.5

$$y = 5.9157\text{E-}004 * x + 2.9508\text{E-}005$$

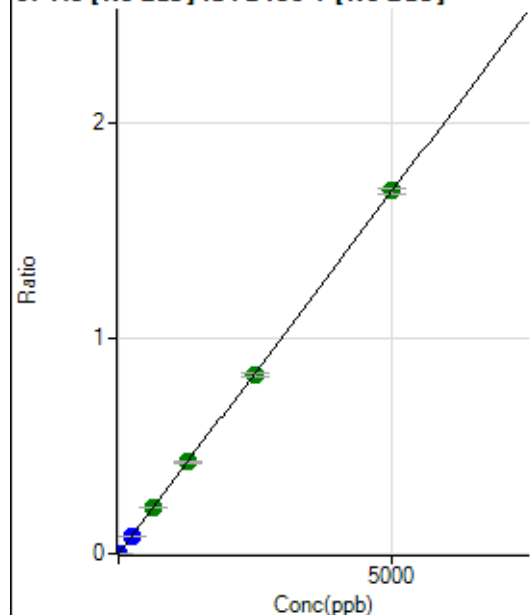
$$R = 1.0000$$

$$DL = 0.06454$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	91.67	0.0000	P	43.4
2	☐	0.500					
3	☐	5.000	4.695	12536.82	0.0016	P	1.6
4	☐	250.000	246.481	649759.57	0.0830	P	1.9
5	☐	625.000	633.349	1646527.07	0.2131	A	0.1
6	☐	1250.000	1264.270	3278713.57	0.4254	A	0.5
7	☐	2500.000	2464.838	6270807.08	0.8294	A	1.8
8	☐	5000.000	5013.146	12645552.71	1.6869	A	1.8
9	☐			20557.96	0.0028	P	2.2

$$y = 3.3649\text{E-}004 * x + 1.1978\text{E-}005$$

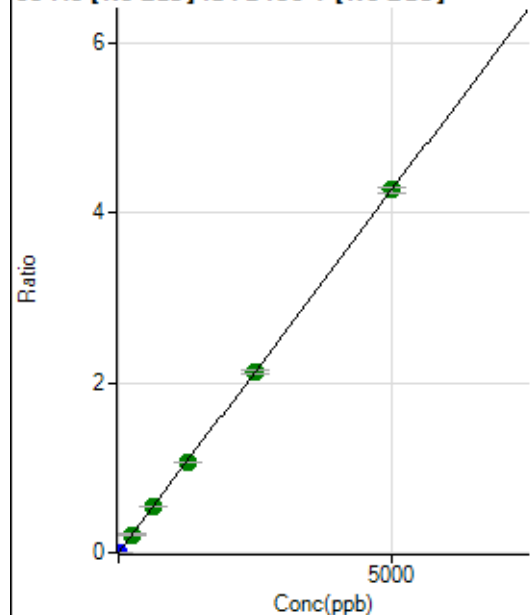
$$R = 1.0000$$

$$DL = 0.0463$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	261.13	0.0000	P	20.9
2	☐	0.500					
3	☐	5.000	4.803	32548.22	0.0041	P	1.2
4	☐	250.000	251.907	1684157.55	0.2150	A	1.6
5	☐	625.000	634.368	4182199.49	0.5414	A	0.8
6	☐	1250.000	1250.495	8223979.35	1.0671	A	0.6
7	☐	2500.000	2483.720	16023592.54	2.1195	A	2.2
8	☐	5000.000	5006.750	32029461.83	4.2725	A	1.3
9	☐			52432.96	0.0071	P	1.9

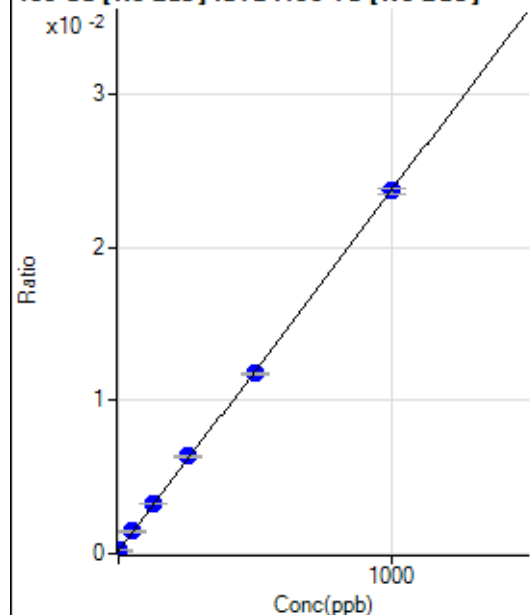
$$y = 8.5334\text{E-}004 * x + 3.4423\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.02523$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1664.07	0.0002	P	7.7
2	☐	0.100					
3	☐	1.000	1.376	2014.14	0.0002	P	9.1
4	☐	50.000	53.913	13843.81	0.0014	P	3.1
5	☐	125.000	132.040	31401.61	0.0033	P	1.2
6	☐	250.000	261.907	61197.62	0.0063	P	0.5
7	☐	500.000	493.345	113701.78	0.0118	P	1.1
8	☐	1000.000	999.275	226896.73	0.0237	P	1.4
9	☐			1705.75	0.0002	P	5.6

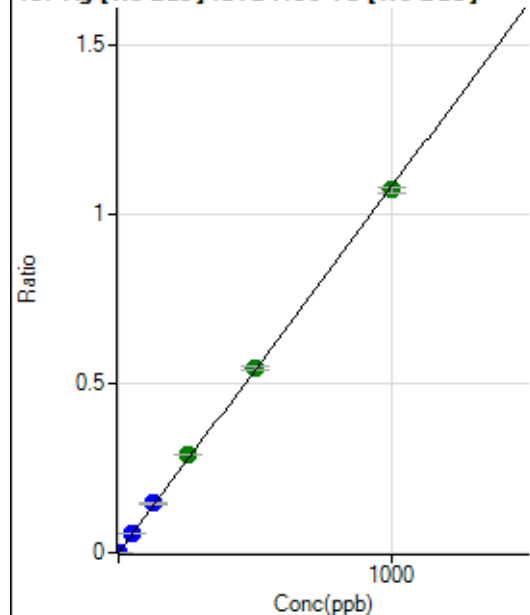
$$y = 2.3533\text{E-}005 * x + 1.7924\text{E-}004$$

$$R = 0.9999$$

$$DL = 1.755$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	94.45	0.0000	P	28.2
2	☐	0.100					
3	☐	1.000	1.017	10568.55	0.0011	P	3.6
4	☐	50.000	54.178	561038.14	0.0587	P	2.8
5	☐	125.000	134.591	1392527.75	0.1458	P	1.1
6	☐	250.000	266.927	2789056.64	0.2891	A	0.6
7	☐	500.000	505.621	5280714.40	0.5476	A	1.9
8	☐	1000.000	991.550	10282145.37	1.0738	A	1.4
9	☐			1472.38	0.0002	P	4.7

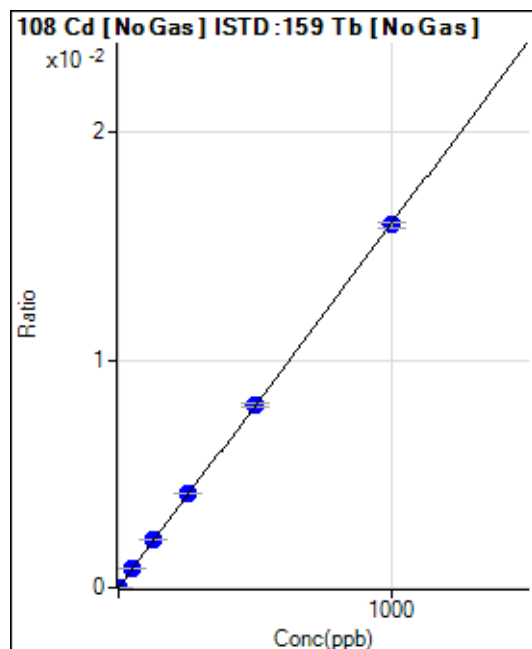
$$y = 0.0011 * x + 1.0132\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.007914$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	11.11	0.0000	P	110.6
2	☐	0.100					
3	☐	1.000	0.890	147.23	0.0000	P	8.9
4	☐	50.000	54.020	8279.10	0.0009	P	4.4
5	☐	125.000	132.618	20294.73	0.0021	P	2.3
6	☐	250.000	258.498	39941.27	0.0041	P	1.3
7	☐	500.000	501.136	77390.17	0.0080	P	1.6
8	☐	1000.000	996.154	152728.01	0.0159	P	1.7
9	☐			58.33	0.0000	P	18.9

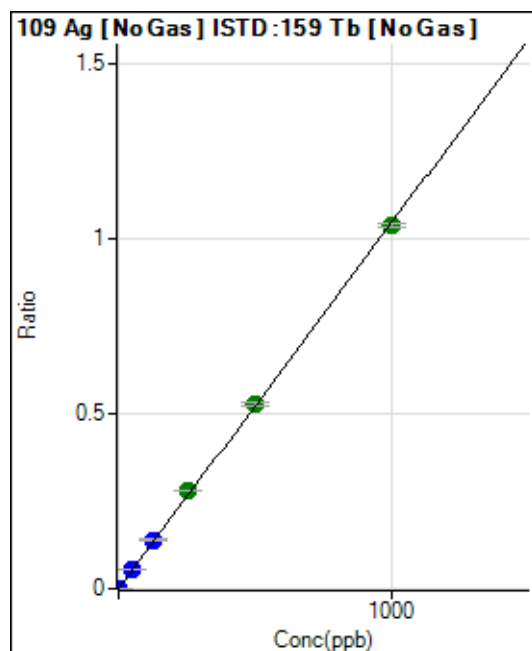
$$y = 1.6010\text{E-}005 * x + 1.2240\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.2535$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	83.34	0.0000	P	55.5
2	☐	0.100					
3	☐	1.000	1.001	10048.62	0.0011	P	3.9
4	☐	50.000	53.345	533814.13	0.0558	P	2.8
5	☐	125.000	133.475	1334485.01	0.1397	P	1.2
6	☐	250.000	267.068	2696603.27	0.2795	A	0.5
7	☐	500.000	505.517	5102012.09	0.5290	A	1.5
8	☐	1000.000	991.748	9938205.35	1.0378	A	1.1
9	☐			1316.80	0.0001	P	9.1

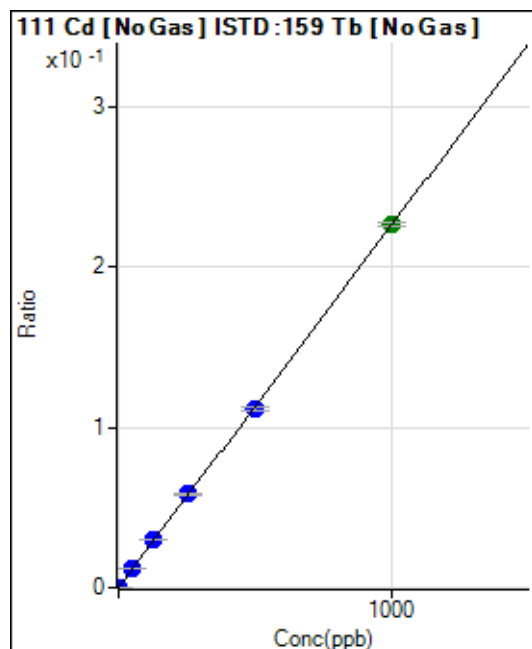
$$y = 0.0010 * x + 9.0171\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.01435$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1169.57	0.0001	P	8.8
2	☐	0.100					
3	☐	1.000	1.055	3469.56	0.0004	P	2.2
4	☐	50.000	52.266	114150.65	0.0119	P	3.3
5	☐	125.000	130.849	283780.95	0.0297	P	1.3
6	☐	250.000	257.101	561955.37	0.0582	P	0.6
7	☐	500.000	493.432	1076964.90	0.1117	P	1.3
8	☐	1000.000	1000.664	2167247.75	0.2263	A	1.2
9	☐			1592.10	0.0002	P	6.6

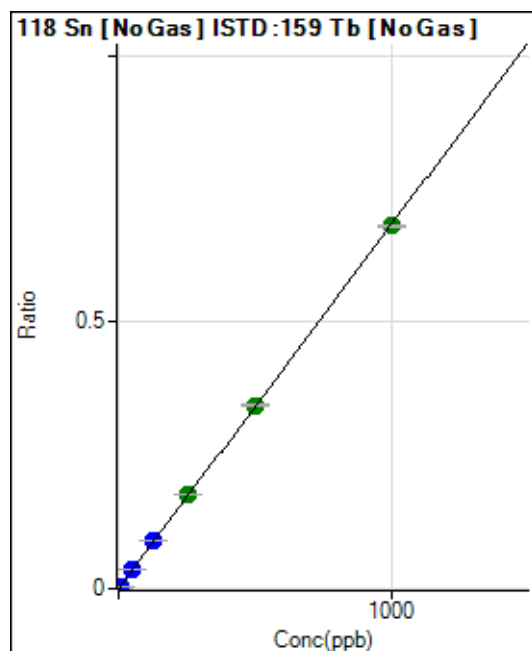
$$y = 2.2605\text{E-}004 * x + 1.2594\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.1463$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	958.41	0.0001	P	5.3
2	☐	0.500					
3	☐	5.000	5.109	34169.60	0.0036	P	6.1
4	☐	50.000	51.772	339154.54	0.0355	P	1.9
5	☐	125.000	130.264	851052.21	0.0891	P	1.0
6	☐	250.000	258.151	1702297.91	0.1764	A	1.1
7	☐	500.000	502.493	3311423.47	0.3433	A	1.1
8	☐	1000.000	995.969	6515783.48	0.6804	A	0.6
9	☐			9434.32	0.0010	P	0.1

$$y = 6.8307\text{E-}004 * x + 1.0327\text{E-}004$$

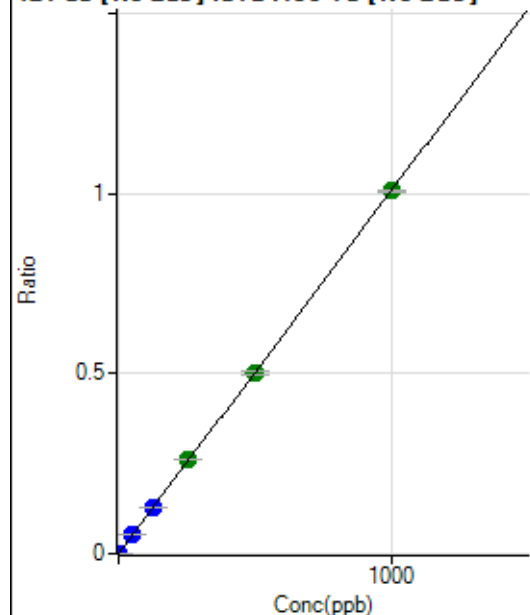
$$R = 1.0000$$

$$DL = 0.02413$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	225.02	0.0000	P	27.6
2	☐	0.200					
3	☐	2.000	1.945	18914.12	0.0020	P	3.0
4	☐	50.000	51.058	493064.02	0.0516	P	1.9
5	☐	125.000	128.513	1239484.56	0.1297	P	1.2
6	☐	250.000	259.147	2524038.21	0.2616	A	0.5
7	☐	500.000	496.523	4833488.91	0.5012	A	2.1
8	☐	1000.000	998.960	9656240.67	1.0084	A	0.4
9	☐			31858.64	0.0034	P	2.0

$$y = 0.0010 * x + 2.4375E-005$$

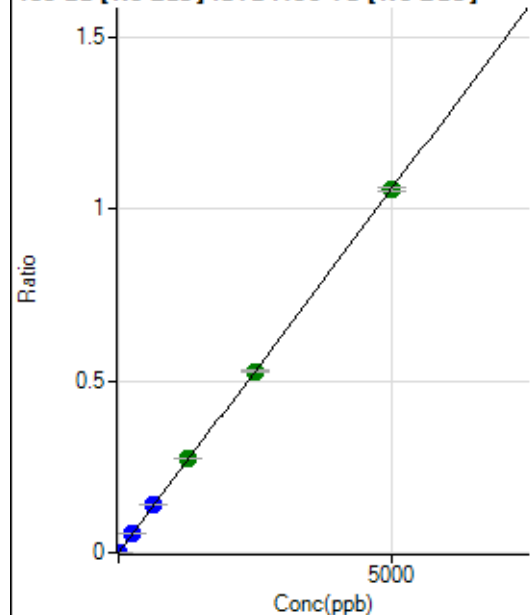
$$R = 0.9999$$

$$DL = 0.01999$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	22.22	0.0000	P	106.2
2	☐	1.000					
3	☐	10.000	9.963	20065.98	0.0021	P	4.2
4	☐	250.000	259.205	524091.41	0.0548	P	2.9
5	☐	625.000	652.708	1318706.27	0.1380	P	0.9
6	☐	1250.000	1291.907	2636031.87	0.2732	A	1.2
7	☐	2500.000	2492.434	5083413.14	0.5271	A	1.5
8	☐	5000.000	4989.383	10103611.43	1.0551	A	1.1
9	☐			3247.78	0.0003	P	1.6

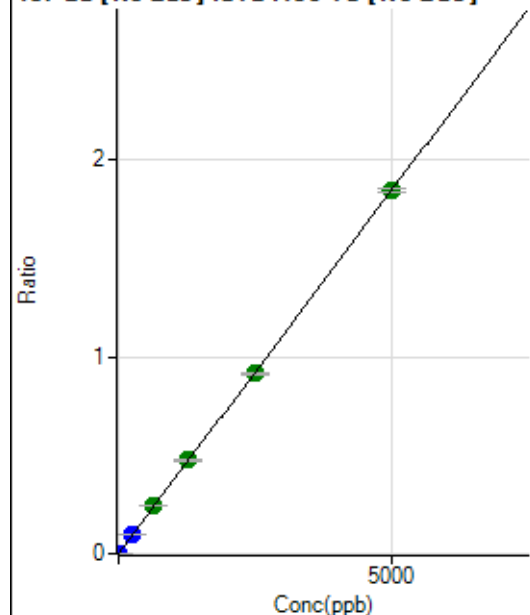
$$y = 2.1147E-004 * x + 2.3571E-006$$

$$R = 1.0000$$

$$DL = 0.03552$$

Weight: <None>

Min Conc: 0

¹³⁷Ba [No Gas] ISTD : ¹⁵⁹Tb [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	52.78	0.0000	P	26.8
2	☐	1.000					
3	☐	10.000	10.175	35752.31	0.0038	P	3.8
4	☐	250.000	260.216	917548.10	0.0960	P	3.3
5	☐	625.000	660.028	2325728.93	0.2434	A	0.5
6	☐	1250.000	1284.205	4569876.49	0.4736	A	0.5
7	☐	2500.000	2483.614	8834626.85	0.9160	A	1.2
8	☐	5000.000	4994.752	17640134.07	1.8422	A	1.1
9	☐			5729.32	0.0006	P	0.6

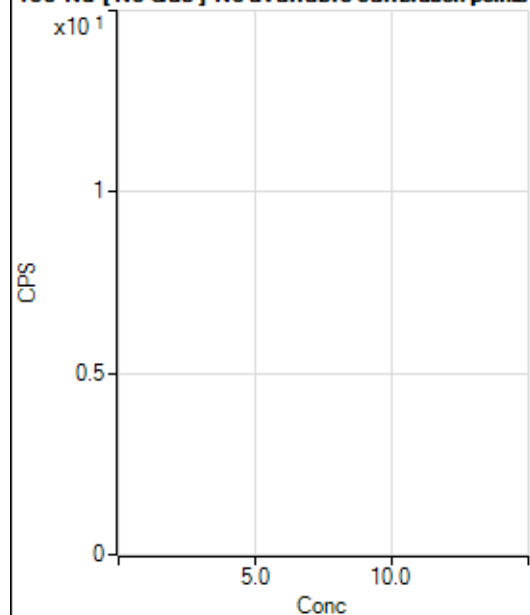
$$y = 3.6882E-004 * x + 5.7179E-006$$

$$R = 0.9999$$

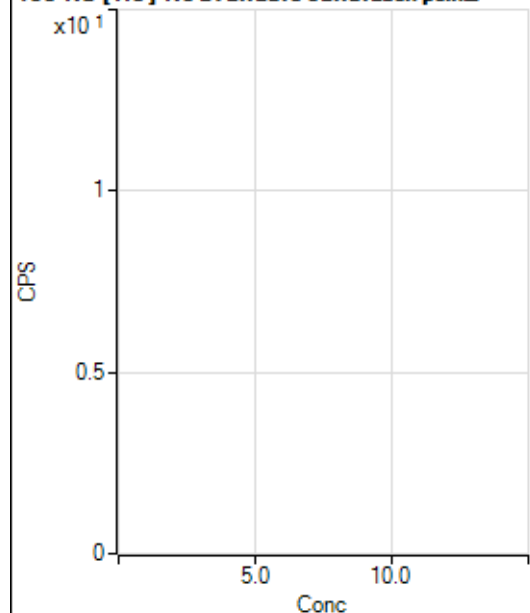
$$DL = 0.01247$$

Weight: <None>

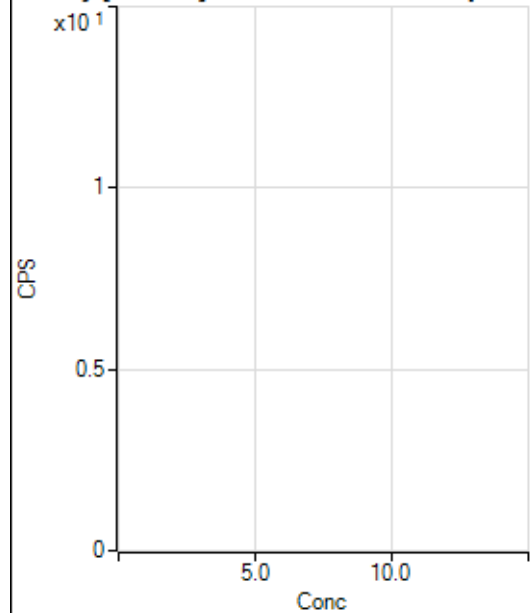
Min Conc: 0

¹⁵⁰Nd [No Gas] No available calibration points

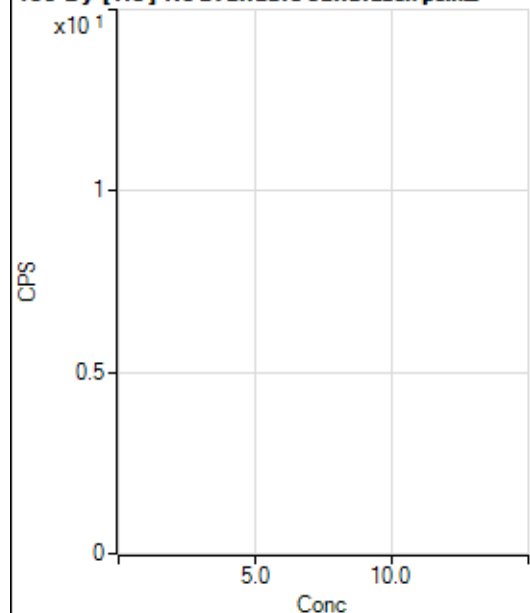
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			8.89		P	114.5
2	☐						
3	☐			4.45		P	86.6
4	☐			28.89		P	81.0
5	☐			66.67		P	0.0
6	☐			140.01		P	31.2
7	☐			231.12		P	26.8
8	☐			422.25		P	7.5
9	☐			146.67		P	13.6

150 Nd [He] No available calibration points

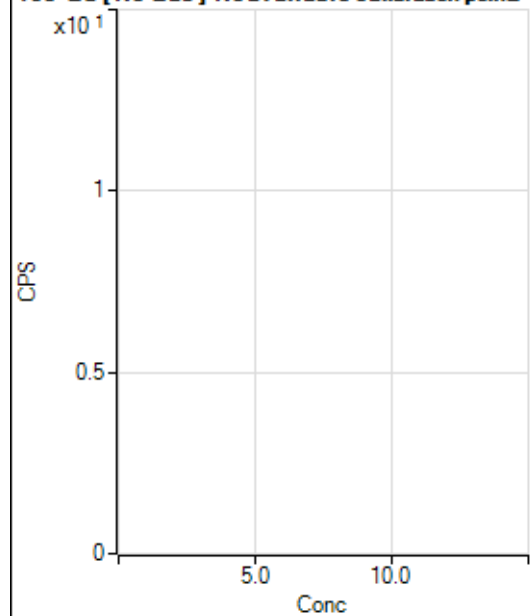
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐						
3	☐			1.11		P	173.2
4	☐			1.11		P	173.2
5	☐			4.44		P	114.6
6	☐			6.67		P	50.0
7	☐			4.45		P	86.6
8	☐			8.89		P	21.6
9	☐			12.22		P	15.7

156 Dy [No Gas] No available calibration points

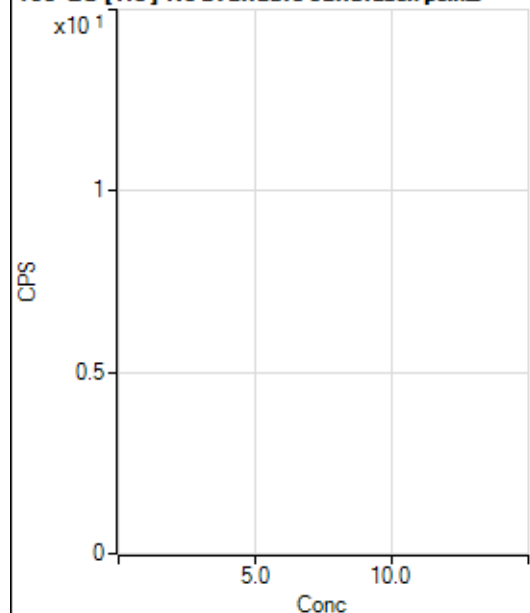
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	0.0
2	☐						
3	☐			5.55		P	86.6
4	☐			36.11		P	58.1
5	☐			36.11		P	35.3
6	☐			44.45		P	47.2
7	☐			97.23		P	30.1
8	☐			144.45		P	16.7
9	☐			108.34		P	13.3

156 Dy [He] No available calibration points

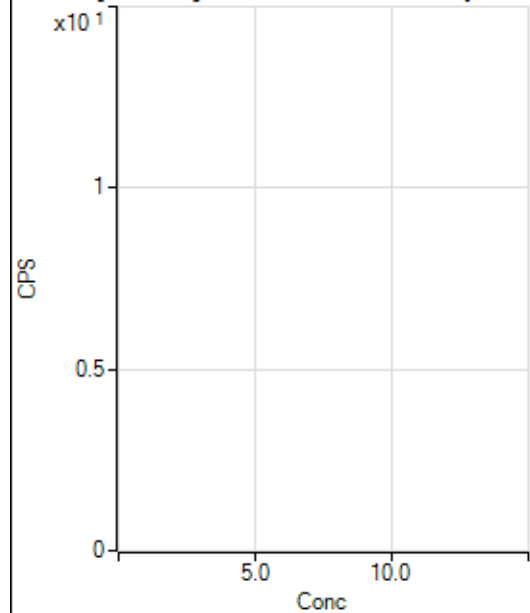
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐						
3	☐			3.33		P	100.1
4	☐			5.56		P	34.7
5	☐			1.11		P	173.2
6	☐			6.67		P	100.0
7	☐			11.11		P	45.8
8	☐			12.22		P	56.8
9	☐			18.89		P	36.7

160 Gd [No Gas] Noavailable calibration poin_

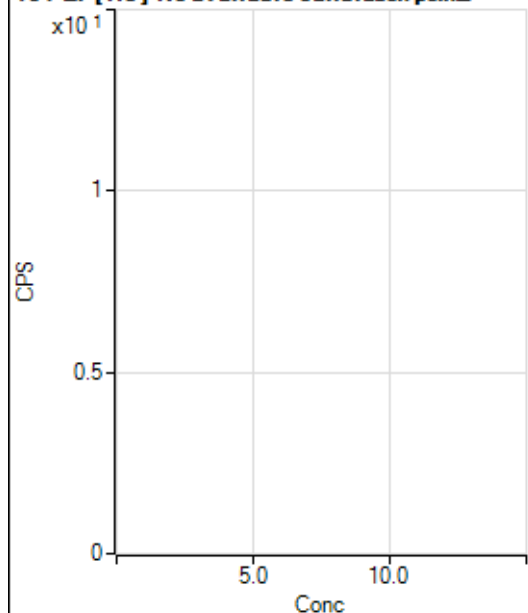
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.67		P	0.0
2	☐						
3	☐			66.67		P	12.5
4	☐			72.23		P	13.3
5	☐			86.12		P	20.1
6	☐			58.33		P	37.8
7	☐			63.89		P	39.8
8	☐			125.01		P	29.1
9	☐			94.45		P	22.2

160 Gd [He] No available calibration points

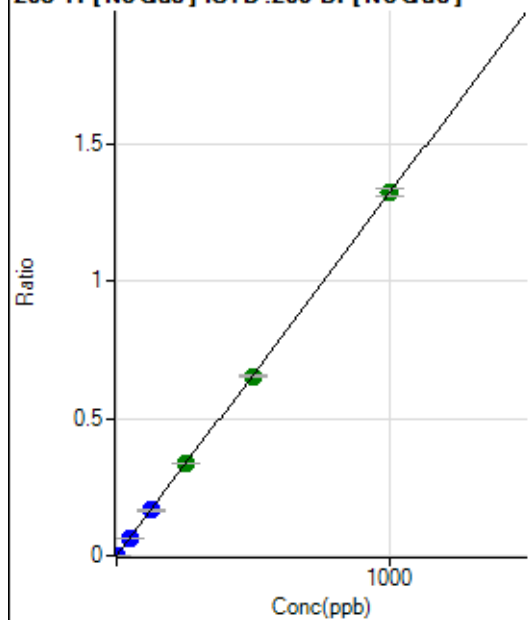
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐						
3	☐			4.44		P	43.4
4	☐			8.89		P	78.1
5	☐			13.33		P	66.1
6	☐			11.11		P	17.3
7	☐			15.56		P	49.5
8	☐			20.00		P	28.9
9	☐			20.00		P	33.4

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.11		P	74.2
2	☐						
3	☐			44.45		P	10.8
4	☐			44.45		P	39.0
5	☐			41.67		P	60.0
6	☐			44.45		P	47.2
7	☐			25.00		P	66.7
8	☐			52.78		P	45.6
9	☐			47.22		P	50.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	34.7
2	☐						
3	☐			10.00		P	33.3
4	☐			8.89		P	57.3
5	☐			7.78		P	65.5
6	☐			7.78		P	24.7
7	☐			2.22		P	86.6
8	☐			11.11		P	17.3
9	☐			8.89		P	57.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	155.57	0.0000	P	35.3
2	☐	0.100					
3	☐	1.000	0.947	7605.44	0.0013	P	2.7
4	☐	50.000	48.795	383509.62	0.0646	P	3.3
5	☐	125.000	124.791	980225.15	0.1651	P	2.2
6	☐	250.000	255.281	2022454.17	0.3376	A	0.6
7	☐	500.000	495.580	3945940.15	0.6554	A	1.8
8	☐	1000.000	1000.976	7850922.57	1.3238	A	2.1
9	☐			3909.14	0.0007	P	9.3

$$y = 0.0013 * x + 2.7038E-005$$

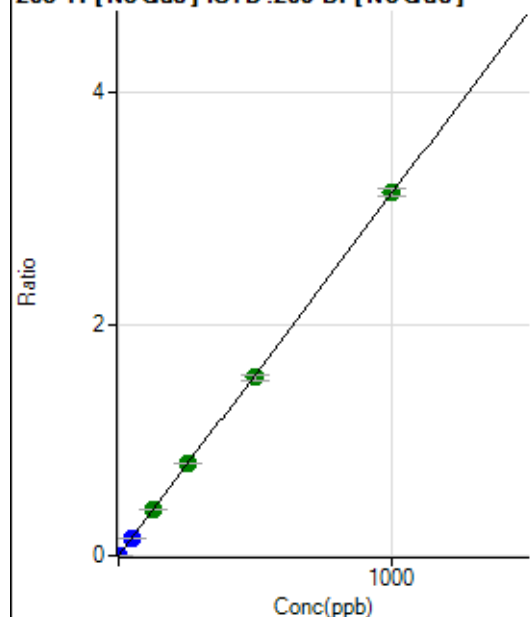
$$R = 1.0000$$

$$DL = 0.02162$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	480.59	0.0001	P	11.1
2	☐	0.100					
3	☐	1.000	0.928	17724.33	0.0030	P	4.3
4	☐	50.000	49.396	917478.32	0.1544	P	3.3
5	☐	125.000	127.693	2370289.70	0.3991	A	2.0
6	☐	250.000	255.353	4780432.05	0.7980	A	0.5
7	☐	500.000	492.397	9263343.35	1.5388	A	2.6
8	☐	1000.000	1002.157	18573805.80	3.1317	A	2.1
9	☐			9754.13	0.0018	P	6.6

$$y = 0.0031 * x + 8.3085E-005$$

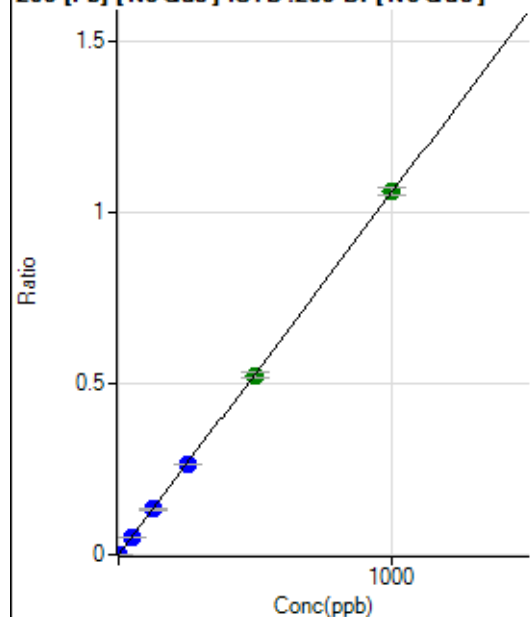
$$R = 0.9999$$

$$DL = 0.008868$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	312.98	0.0001	P	23.0
2	☐	0.100					
3	☐	1.000	0.954	6323.99	0.0011	P	2.9
4	☐	50.000	48.876	307903.28	0.0518	P	2.3
5	☐	125.000	124.799	785248.96	0.1322	P	2.5
6	☐	250.000	250.044	1586665.01	0.2649	P	0.3
7	☐	500.000	495.628	3160296.40	0.5250	A	2.6
8	☐	1000.000	1002.256	6295698.06	1.0615	A	2.1
9	☐			6953.97	0.0013	P	3.3

$$y = 0.0011 * x + 5.4321E-005$$

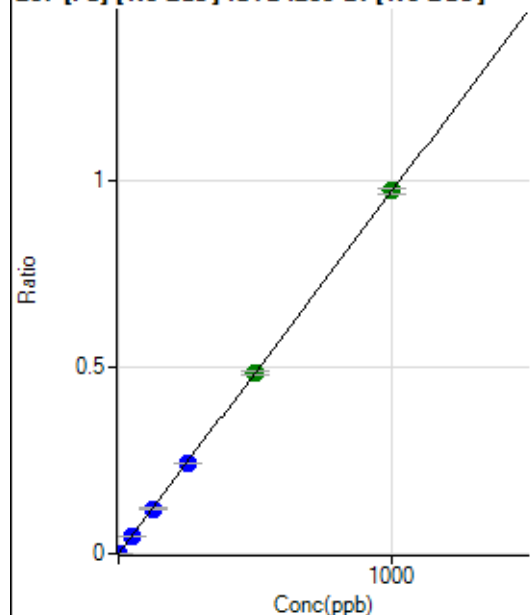
$$R = 1.0000$$

$$DL = 0.03542$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	335.20	0.0001	P	10.3
2	☐	0.100					
3	☐	1.000	0.960	5866.36	0.0010	P	3.8
4	☐	50.000	48.415	279024.03	0.0470	P	3.2
5	☐	125.000	123.277	709626.96	0.1195	P	2.7
6	☐	250.000	248.041	1439926.99	0.2404	P	0.7
7	☐	500.000	497.366	2901442.63	0.4819	A	2.2
8	☐	1000.000	1002.101	5758725.25	0.9710	A	1.9
9	☐			5925.64	0.0011	P	3.2

$$y = 9.6888\text{E-}004 * x + 5.7772\text{E-}005$$

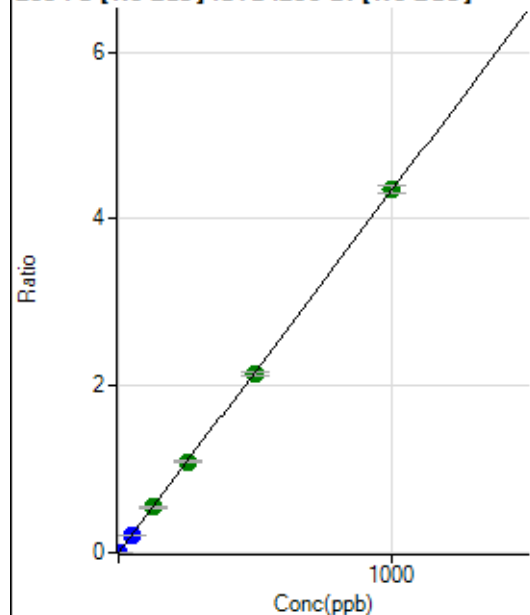
$$R = 1.0000$$

$$DL = 0.0184$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1407.48	0.0002	P	4.1
2	☐	0.100					
3	☐	1.000	0.954	26009.39	0.0044	P	2.9
4	☐	50.000	48.705	1255688.75	0.2113	P	2.8
5	☐	125.000	125.453	3230747.60	0.5440	A	2.1
6	☐	250.000	251.787	6538820.29	1.0916	A	0.7
7	☐	500.000	494.089	12893825.41	2.1418	A	2.4
8	☐	1000.000	1002.517	25772633.33	4.3455	A	2.0
9	☐			27115.77	0.0049	P	1.1

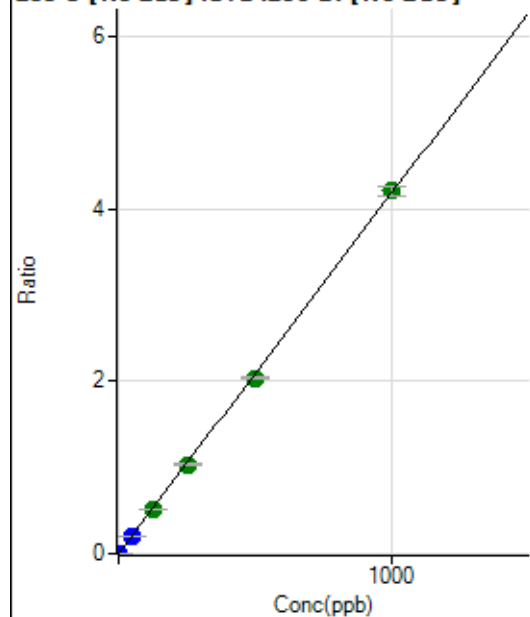
$$y = 0.0043 * x + 2.4330\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.006955$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	91.67	0.0000	P	3.2
2	☐	0.100					
3	☐	1.000	0.941	23475.70	0.0040	P	2.7
4	☐	50.000	47.601	1182388.59	0.1990	P	3.2
5	☐	125.000	124.267	3085758.88	0.5196	A	1.7
6	☐	250.000	247.385	6195655.39	1.0343	A	0.6
7	☐	500.000	488.138	12287627.53	2.0408	A	1.4
8	☐	1000.000	1006.796	24963080.59	4.2093	A	2.4
9	☐			4667.74	0.0008	P	4.2

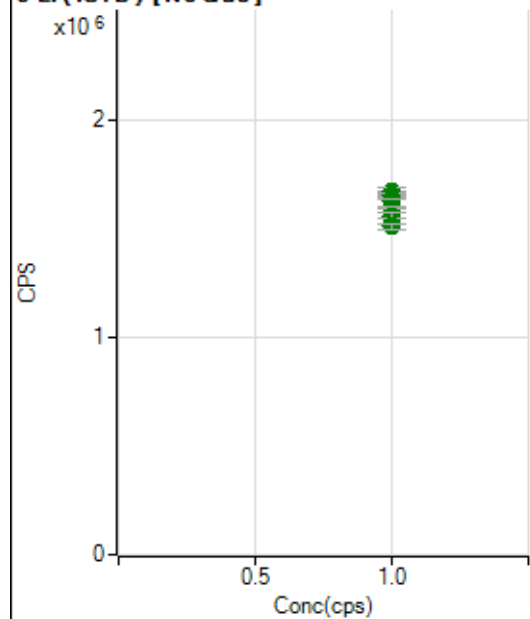
$$y = 0.0042 * x + 1.5844E-005$$

$$R = 0.9999$$

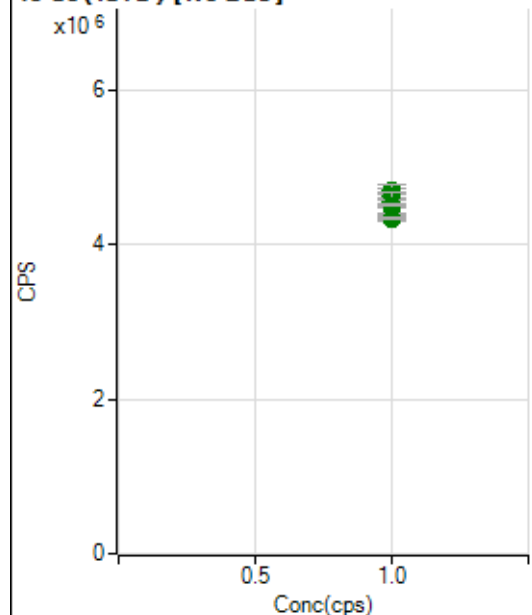
$$DL = 0.0003693$$

Weight: <None>

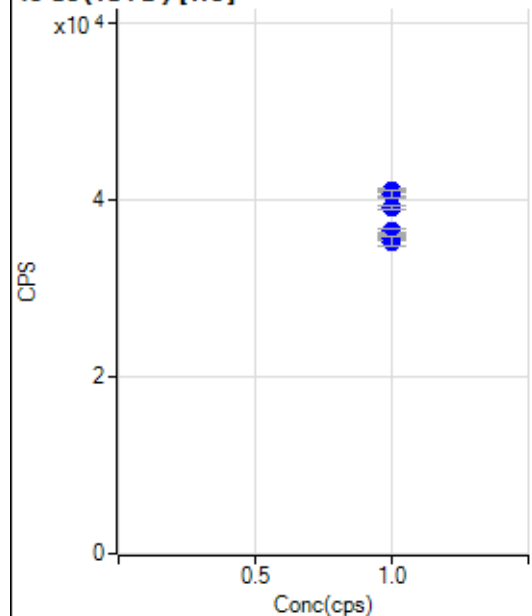
Min Conc: 0

6 Li (ISTD) [No Gas]

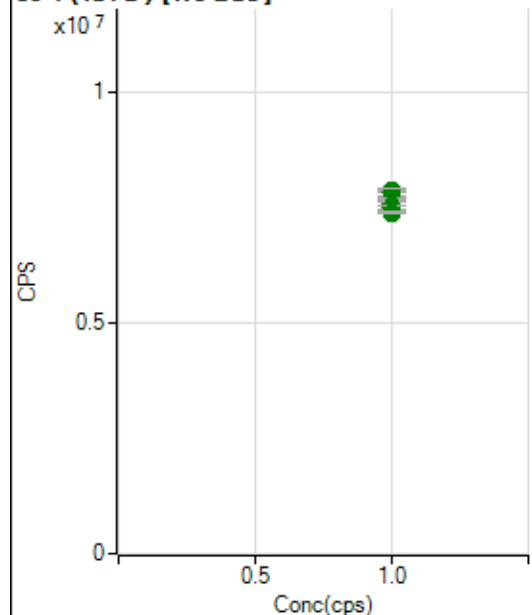
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1624446.63		A	3.0
2	☐	1.000					
3	☐	1.000		1660340.08		A	1.0
4	☐	1.000		1670085.20		A	2.0
5	☐	1.000		1651128.32		A	1.9
6	☐	1.000		1637229.60		A	0.4
7	☐	1.000		1595450.24		A	0.6
8	☐	1.000		1559016.97		A	1.6
9	☐	1.000		1511927.72		A	1.6

45 Sc (ISTD) [No Gas]

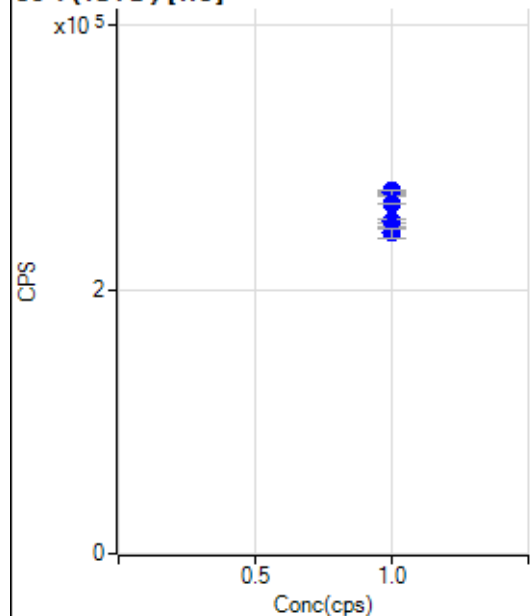
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4559317.25		A	3.8
2	☐	1.000					
3	☐	1.000		4692598.54		A	1.7
4	☐	1.000		4689055.32		A	3.3
5	☐	1.000		4627528.96		A	2.3
6	☐	1.000		4514016.42		A	0.6
7	☐	1.000		4385528.13		A	0.6
8	☐	1.000		4329257.65		A	1.1
9	☐	1.000		4334521.89		A	0.9

45 Sc (ISTD) [He]

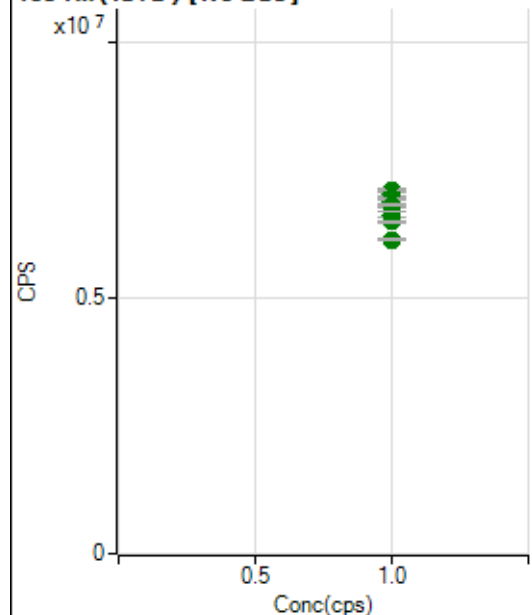
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		40760.16		P	1.9
2	☐	1.000					
3	☐	1.000		41027.66		P	1.0
4	☐	1.000		40666.62		P	2.4
5	☐	1.000		39153.45		P	1.6
6	☐	1.000		36594.43		P	1.2
7	☐	1.000		35571.78		P	1.1
8	☐	1.000		35717.75		P	2.0
9	☐	1.000		35304.65		P	3.0

89 Y (ISTD) [No Gas]

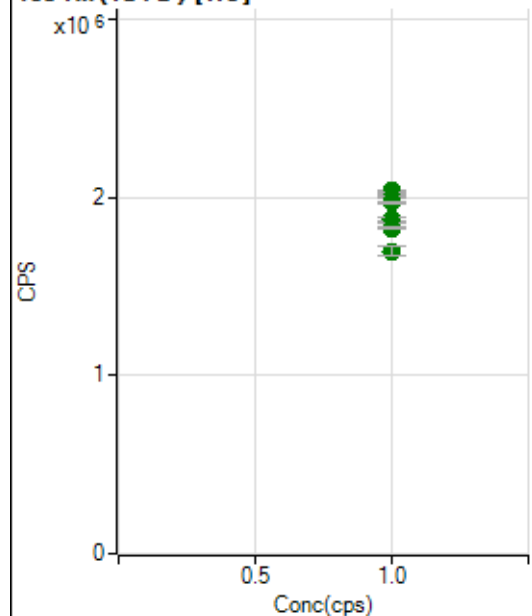
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7593046.62		A	3.0
2	☐	1.000					
3	☐	1.000		7875419.12		A	0.4
4	☐	1.000		7835109.40		A	2.0
5	☐	1.000		7725507.53		A	0.7
6	☐	1.000		7706835.09		A	0.7
7	☐	1.000		7562183.01		A	1.8
8	☐	1.000		7497496.42		A	1.3
9	☐	1.000		7397904.47		A	0.5

89 Y (ISTD) [He]

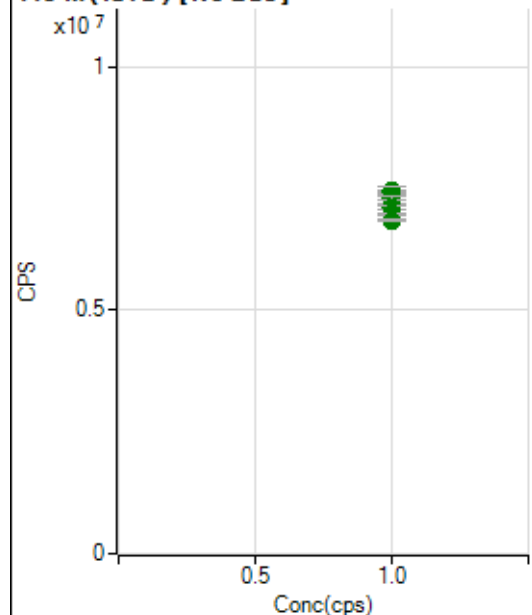
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		273987.15		P	0.9
2	☐	1.000					
3	☐	1.000		274734.13		P	0.8
4	☐	1.000		273109.06		P	1.3
5	☐	1.000		265120.12		P	0.4
6	☐	1.000		251667.60		P	1.3
7	☐	1.000		247754.18		P	0.1
8	☐	1.000		246785.15		P	0.9
9	☐	1.000		242504.25		P	3.2

103 Rh (ISTD) [No Gas]

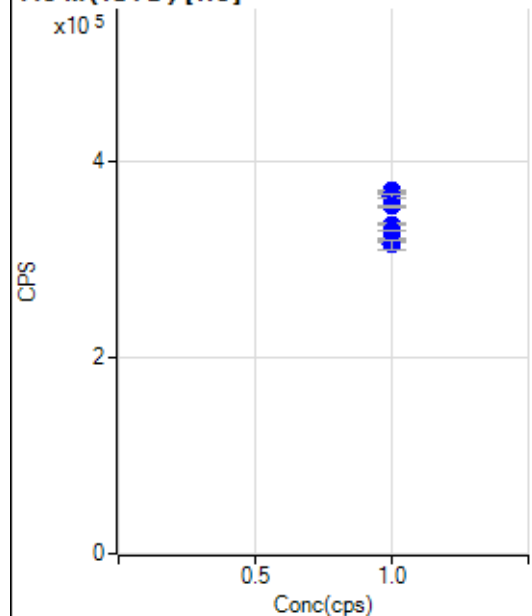
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6897881.84		A	3.2
2	☐	1.000					
3	☐	1.000		7094962.14		A	1.2
4	☐	1.000		7038688.09		A	2.5
5	☐	1.000		6941692.86		A	0.8
6	☐	1.000		6813733.05		A	0.6
7	☐	1.000		6625045.29		A	1.6
8	☐	1.000		6496883.52		A	0.7
9	☐	1.000		6143797.27		A	0.6

103 Rh (ISTD) [He]

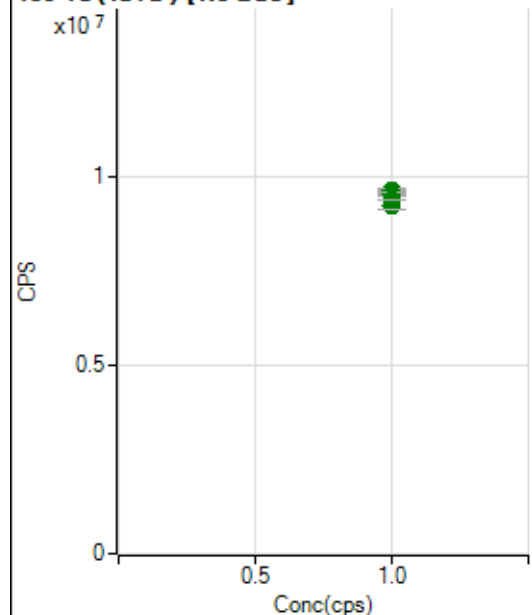
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2039264.08		A	0.3
2	☐	1.000					
3	☐	1.000		2028580.87		A	0.3
4	☐	1.000		2003459.26		A	0.5
5	☐	1.000		1976305.75		A	0.5
6	☐	1.000		1878415.53		A	0.9
7	☐	1.000		1858808.79		A	0.4
8	☐	1.000		1831331.36		A	0.9
9	☐	1.000		1699077.73		A	3.1

115 In (ISTD) [No Gas]

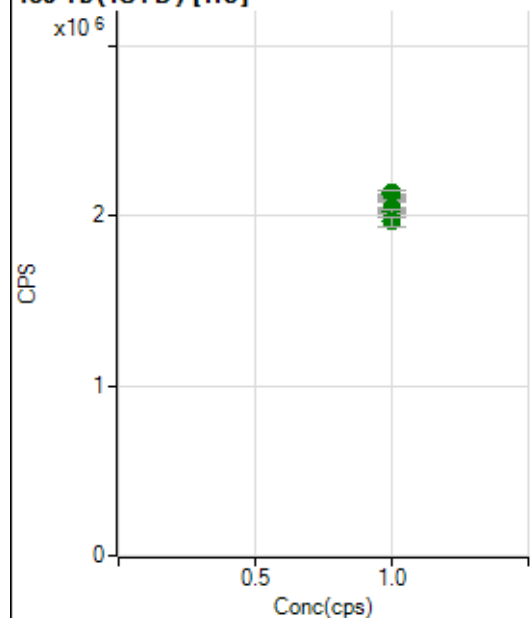
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7286980.71		A	3.3
2	☐	1.000					
3	☐	1.000		7417907.43		A	1.5
4	☐	1.000		7447366.06		A	2.4
5	☐	1.000		7352020.23		A	0.7
6	☐	1.000		7302939.61		A	0.6
7	☐	1.000		7093431.98		A	0.9
8	☐	1.000		6972657.00		A	0.7
9	☐	1.000		6843546.08		A	0.6

115 In (ISTD) [He]

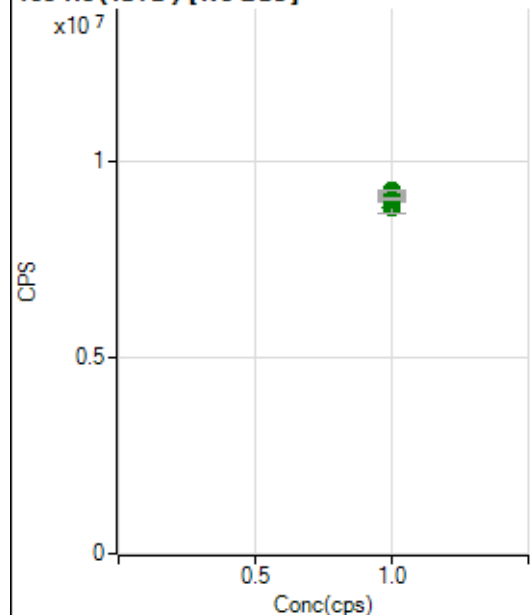
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		368348.94		P	0.5
2	☐	1.000					
3	☐	1.000		369997.08		P	0.3
4	☐	1.000		364459.03		P	1.2
5	☐	1.000		354950.22		P	0.6
6	☐	1.000		335710.48		P	0.6
7	☐	1.000		329367.27		P	0.1
8	☐	1.000		319870.49		P	0.8
9	☐	1.000		315578.97		P	3.1

159 Tb (ISTD) [No Gas]

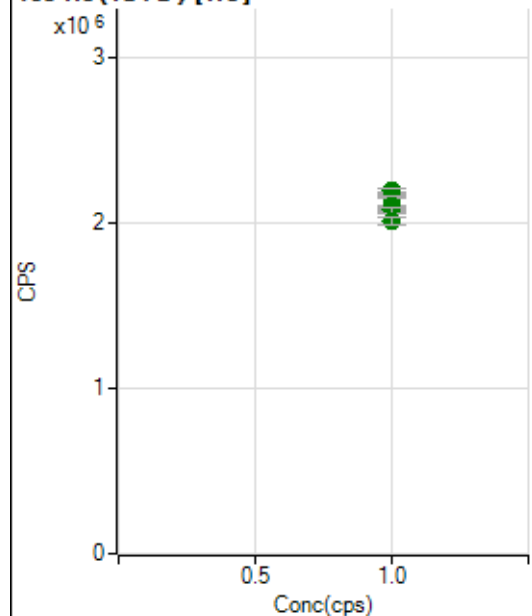
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9270454.38		A	3.0
2	☐	1.000					
3	☐	1.000		9518061.52		A	2.2
4	☐	1.000		9566079.58		A	2.9
5	☐	1.000		9554085.83		A	0.9
6	☐	1.000		9648598.89		A	0.7
7	☐	1.000		9645712.56		A	1.5
8	☐	1.000		9576390.13		A	0.8
9	☐	1.000		9402863.26		A	0.3

159 Tb (ISTD) [He]

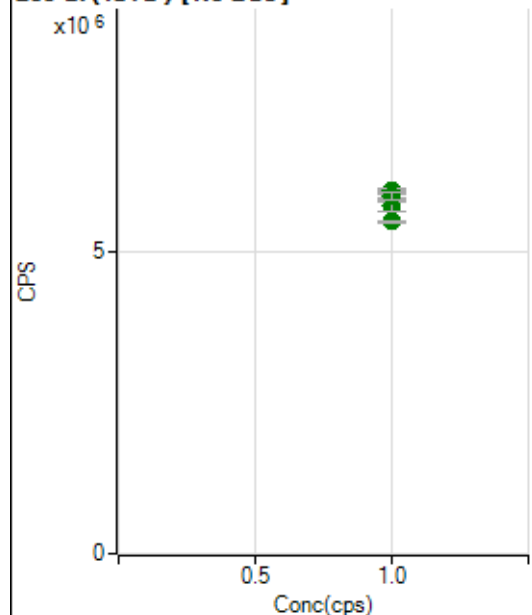
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2118952.52		A	0.8
2	☐	1.000					
3	☐	1.000		2135015.21		A	1.4
4	☐	1.000		2128775.78		A	1.6
5	☐	1.000		2088399.12		A	0.7
6	☐	1.000		2033964.76		A	1.1
7	☐	1.000		2043304.99		A	0.3
8	☐	1.000		2028548.98		A	1.0
9	☐	1.000		1966574.34		A	2.9

165 Ho (ISTD) [No Gas]

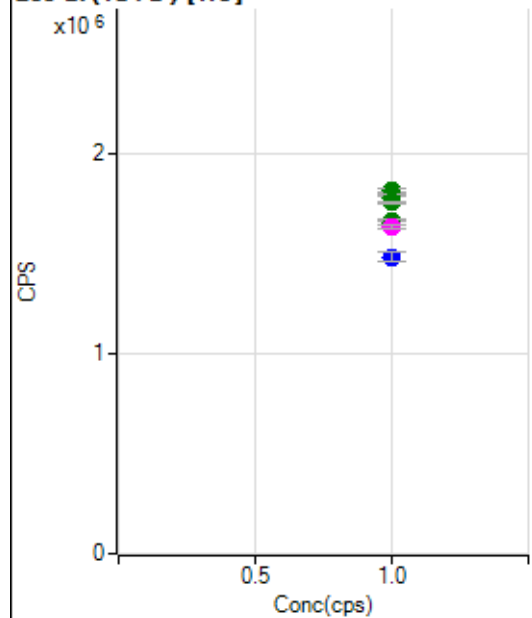
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8831902.45		A	3.3
2	☐	1.000					
3	☐	1.000		9016327.03		A	1.1
4	☐	1.000		9165723.21		A	2.4
5	☐	1.000		9118124.51		A	0.7
6	☐	1.000		9236460.10		A	0.9
7	☐	1.000		9200628.16		A	1.4
8	☐	1.000		9238975.12		A	0.8
9	☐	1.000		9028097.25		A	0.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2193280.49		A	0.9
2	☐	1.000					
3	☐	1.000		2175387.22		A	0.7
4	☐	1.000		2192446.97		A	1.6
5	☐	1.000		2155113.51		A	0.7
6	☐	1.000		2078846.38		A	0.5
7	☐	1.000		2098900.37		A	0.6
8	☐	1.000		2077688.79		A	1.5
9	☐	1.000		2012141.50		A	2.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5789865.12		A	3.2
2	☐	1.000					
3	☐	1.000		5941430.12		A	0.9
4	☐	1.000		5944767.27		A	3.2
5	☐	1.000		5940548.52		A	2.1
6	☐	1.000		5990295.26		A	0.4
7	☐	1.000		6021922.27		A	1.9
8	☐	1.000		5932368.52		A	2.0
9	☐	1.000		5514353.80		A	0.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1811632.64		A	1.1
2	☐	1.000					
3	☐	1.000		1791525.93		A	0.3
4	☐	1.000		1772606.09		A	2.2
5	☐	1.000		1754579.87		A	0.5
6	☐	1.000		1662576.22		A	0.7
7	☐	1.000		1655314.09		A	1.4
8	☐	1.000		1632072.49		M	1.0
9	☐	1.000		1483399.93		P	3.1

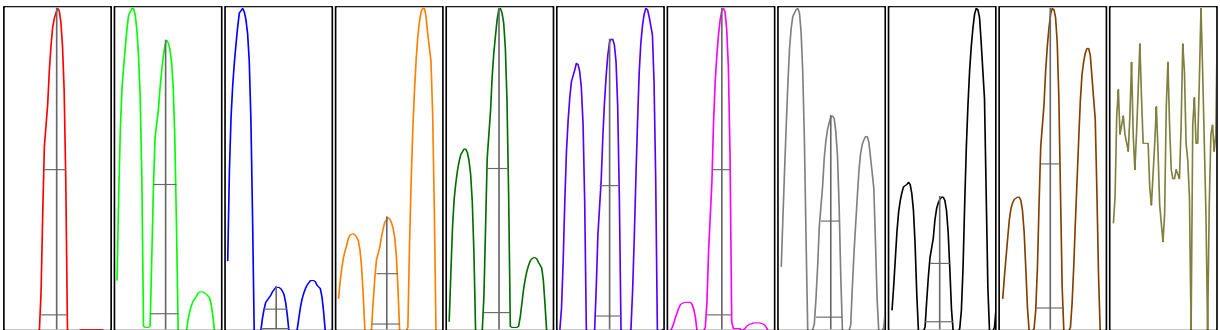
US EPA Tune Check Sample Report

Batch Folder D:\P8100218 MS.b
Report Comment
Instrument Name G8403A JP17141814

[No Gas]				
Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	9069	0.82	5.00	
24	62214	0.62	5.00	
25	8479	0.68	5.00	
26	9776	0.84	5.00	
59	83122	0.59	5.00	
113	11293	0.81	5.00	
115	138491	1.25	5.00	
206	31440	0.72	5.00	
207	28753	0.73	5.00	
208	67850	0.86	5.00	
220	1	23.51		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	9055	9160	9092	9083	8956
24	62036	62293	62684	62396	61660
25	8466	8523	8544	8462	8398
26	9747	9864	9803	9816	9649
59	83271	83482	83635	82719	82504
113	11292	11352	11372	11306	11141
115	138639	140674	138031	139158	135951
206	31124	31569	31561	31664	31286
207	28490	28680	28861	29047	28686
208	66914	68194	68195	68296	67654
220	1	1	1	1	1

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	15755	9.00	8.9 - 9.1		0.774	0.900	
24	106490	23.95	23.9 - 24.1		0.783	0.900	
25	14365	24.95	24.9 - 25.1		0.785	0.900	
26	16695	25.95	25.9 - 26.1		0.784	0.900	
59	147256	59.00	58.9 - 59.1		0.768	0.900	
113	21412	113.00	112.9 - 113.1		0.728	0.900	
115	264670	115.05	114.9 - 115.1		0.722	0.900	
206	58114	206.00	205.9 - 206.1		0.773	0.900	
207	52331	206.95	206.9 - 207.1		0.772	0.900	
208	126313	207.95	207.9 - 208.1		0.771	0.900	
220			-				

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 268 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Plasma Mode		HMI	Aerosol Dilution		HMI-8			

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.4	V	Deflect	14.0	V
Extract 2	-230.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-95	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination		5.0 V
He Flow	0.0	mL/min	OctP RF	200	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	10846	0.29	
89	2592	0.89	
205	15888	0.59	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	10897	10823	10843	10851	10816
89	2598	2600	2620	2581	2559
205	16018	15838	15941	15870	15774

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Plasma Mode		HMI	Aerosol Dilution		HMI-8			

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.4	V	Deflect	1.6	V
Extract 2	-230.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-95	V	Cell Exit	-60	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	Yes		OctP Bias	-18.0	V	Energy Discrimination		5.0 V
He Flow	5.0	mL/min	OctP RF	200	V			