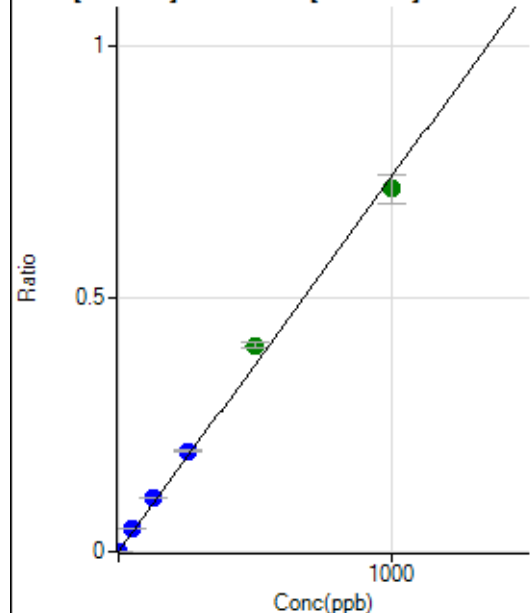


Calibration for 007CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7031923-MS.b\
 Analysis File: P7031923-MS.batch.bin
 DA Date-Time: 2023-03-19 15:33:38
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-03-19 13:43:33
2	006CALS.d	S02	2023-03-19 13:50:04
3	007CALS.d	S03	2023-03-19 13:53:19
4	008CALS.d	S04	2023-03-19 13:56:19
5	009CALS.d	S05	2023-03-19 13:59:09
6	010CALS.d	S06	2023-03-19 14:01:56
7	011CALS.d	S07	2023-03-19 14:04:42
8	012CALS.d	S08	2023-03-19 14:07:29

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	23.34	0.0000	P	50.7
2	☐	1.000	1.151	3090.33	0.0009	P	3.3
3	☐	50.000	59.422	154909.03	0.0440	P	1.2
4	☐	125.000	141.555	361065.42	0.1047	P	0.4
5	☐	250.000	268.324	693955.22	0.1985	P	1.1
6	☐	500.000	549.595	1353040.81	0.4066	A	2.7
7	☐	1000.000	968.081	2532959.32	0.7161	A	7.9
8	☐			788.92	0.0003	P	20.8

$$y = 7.3975\text{E-}004 * x + 6.6417\text{E-}006$$

$$R = 0.9979$$

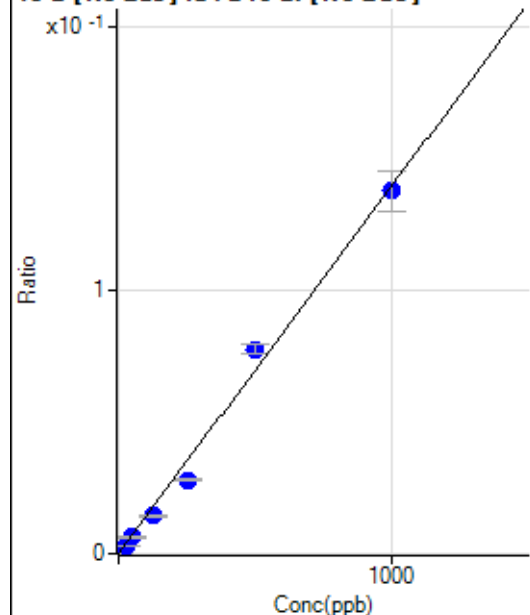
$$DL = 0.01366$$

$$BEC = 0.008978$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	208.89	0.0001	P	7.5
2	☐	25.000	20.031	10269.04	0.0028	P	6.8
3	☐	50.000	45.182	22391.83	0.0064	P	6.5
4	☐	125.000	103.208	49789.67	0.0144	P	3.3
5	☐	250.000	200.824	98022.90	0.0280	P	4.2
6	☐	500.000	555.538	257792.82	0.0775	P	4.5
7	☐	1000.000	987.614	486182.60	0.1377	P	11.4
8	☐			20588.36	0.0065	P	15.9

$$y = 1.3932\text{E-}004 * x + 5.9243\text{E-}005$$

$$R = 0.9964$$

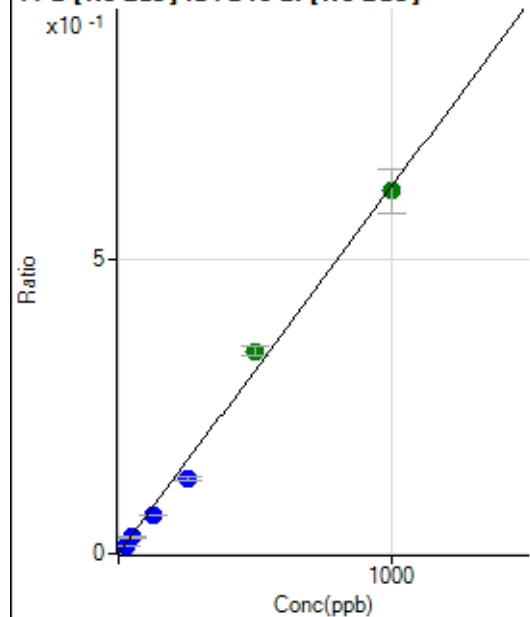
$$DL = 0.09604$$

$$BEC = 0.4252$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1010.05	0.0003	P	11.6
2	☐	25.000	20.702	47648.82	0.0132	P	4.6
3	☐	50.000	44.864	99838.71	0.0283	P	5.1
4	☐	125.000	104.806	226908.34	0.0658	P	3.9
5	☐	250.000	204.553	447995.48	0.1281	P	5.7
6	☐	500.000	551.670	1148624.64	0.3451	A	5.0
7	☐	1000.000	988.415	2182837.24	0.6181	A	11.9
8	☐			93979.79	0.0299	P	15.7

$$y = 6.2505E-004 * x + 2.8635E-004$$

$$R = 0.9969$$

$$DL = 0.1593$$

$$BEC = 0.4581$$

Weight: <None>

Min Conc: 0

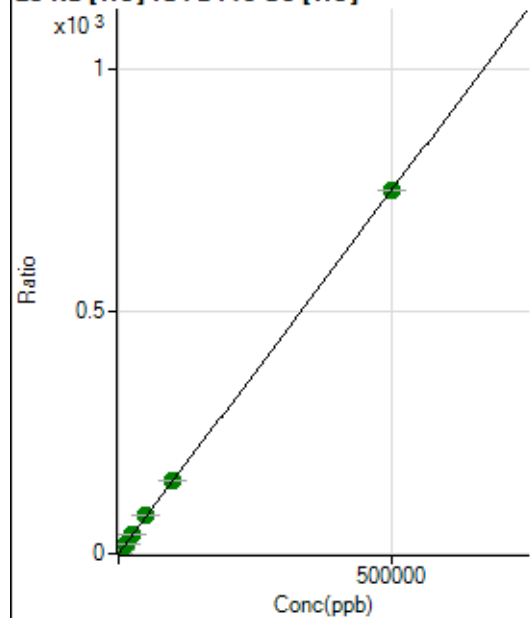
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	18105.18	0.0278	P	1.5
2	☐	500.000	530.283	533237.69	0.8240	P	0.7
3	☐	5000.000	5494.384	5261984.82	8.2771	A	1.5
4	☐	12500.000	13244.855	12402327.59	19.9137	A	0.4
5	☐	25000.000	25747.225	24308017.42	38.6848	A	1.1
6	☐	50000.000	53007.277	49982289.81	79.6131	A	0.8
7	☐	100000.00	100684.52	99350030.74	151.1959	A	2.2
8	☐	500000.00	499501.41	452133242.15	749.9806	A	0.1

$$y = 0.0015 * x + 0.0278$$

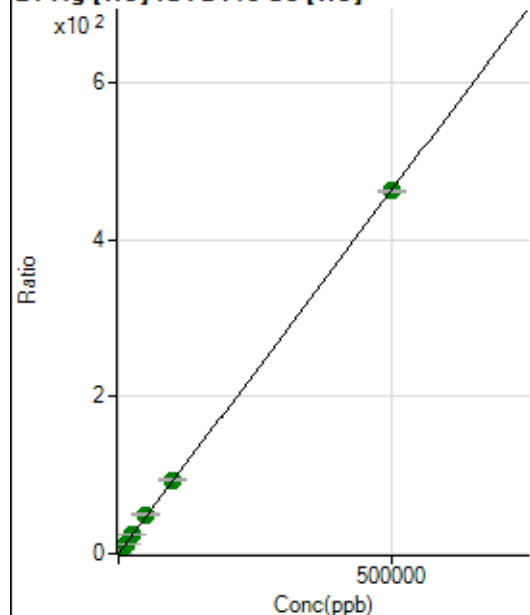
$$R = 1.0000$$

$$DL = 0.8516$$

$$BEC = 18.55$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	372.23	0.0006	P	9.2
2	☐	500.000	529.059	317032.49	0.4899	P	0.3
3	☐	5000.000	5634.944	3313612.90	5.2125	A	1.0
4	☐	12500.000	13542.912	7801679.47	12.5268	A	0.6
5	☐	25000.000	26413.355	15351665.74	24.4311	A	1.0
6	☐	50000.000	54020.238	31368863.14	49.9656	A	1.2
7	☐	100000.00	100746.79	61227644.09	93.1844	A	2.3
8	☐	500000.00	499345.49	278431484.74	461.8608	A	0.6

$$y = 9.2493\text{E-}004 * x + 5.7286\text{E-}004$$

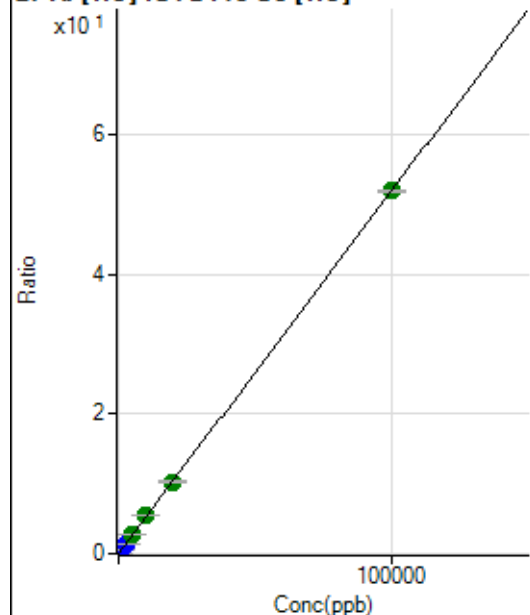
$$R = 1.0000$$

$$DL = 0.1717$$

$$BEC = 0.6194$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1161.17	0.0018	P	2.3
2	☐	20.000	18.198	7279.56	0.0112	P	1.6
3	☐	1000.000	1115.799	370029.82	0.5820	P	0.3
4	☐	2500.000	2642.032	856787.20	1.3757	P	0.9
5	☐	5000.000	5074.896	1659412.14	2.6409	A	1.2
6	☐	10000.000	10478.146	3421989.98	5.4508	A	1.4
7	☐	20000.000	19663.613	6719920.18	10.2275	A	2.5
8	☐	100000.00	100011.01	31354487.59	52.0107	A	0.7

$$y = 5.2003\text{E-}004 * x + 0.0018$$

$$R = 1.0000$$

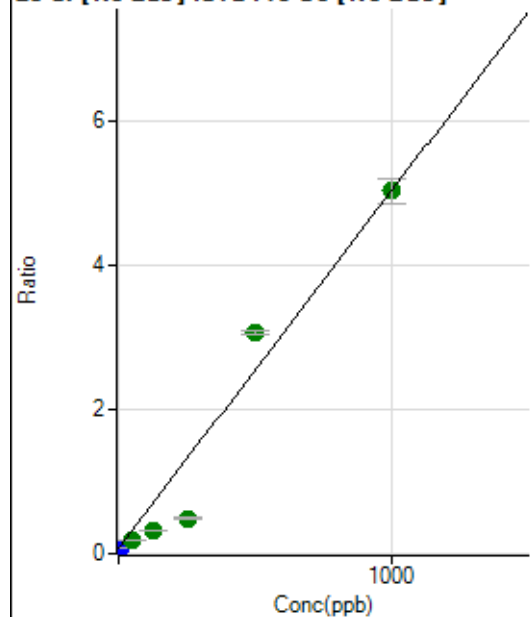
$$DL = 0.2376$$

$$BEC = 3.435$$

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	493208.30	0.0710	P	3.2
2	☐	10.000	2.789	596220.83	0.0849	P	1.3
3	☐	50.000	24.473	1312147.52	0.1926	A	5.0
4	☐	125.000	49.724	2139003.80	0.3180	A	5.4
5	☐	250.000	83.939	3343532.24	0.4880	A	6.5
6	☐	500.000	604.346	20324633.58	3.0736	A	1.8
7	☐	1000.000	1000.100	36730738.62	5.0398	A	7.0
8	☐			1001876.05	0.1485	P	8.6

$$y = 0.0050 * x + 0.0710$$

$$R = 0.9794$$

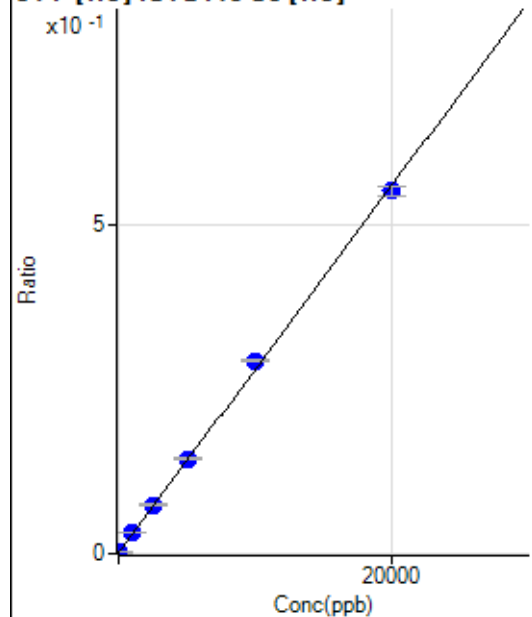
$$DL = 1.38$$

$$BEC = 14.29$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-13.814	562.24	0.0009	P	15.8
2	☐	0.000	13.814	1058.94	0.0016	P	9.5
3	☐	1000.000	1076.084	19899.67	0.0313	P	1.7
4	☐	2500.000	2618.953	46331.01	0.0744	P	1.1
5	☐	5000.000	5116.379	90572.39	0.1441	P	1.3
6	☐	10000.000	10462.149	184224.40	0.2934	P	1.0
7	☐	20000.000	19721.158	362711.47	0.5520	P	2.4
8	☐			680.02	0.0011	P	3.4

$$y = 2.7928E-005 * x + 0.0013$$

$$R = 0.9996$$

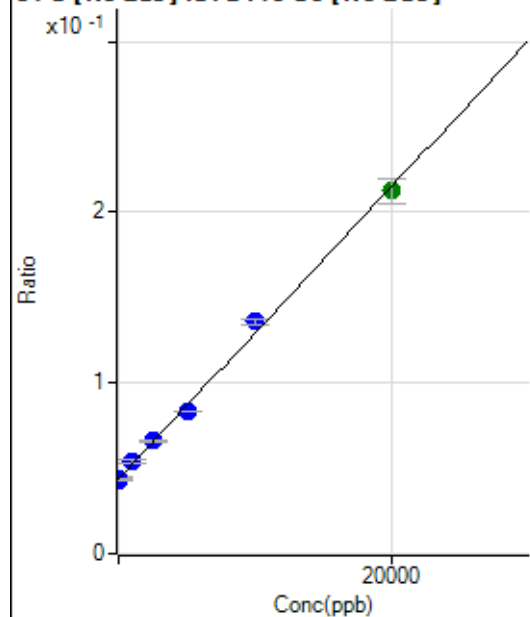
$$DL = 15.69$$

$$BEC = 44.79$$

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	66.745	309103.81	0.0445	P	3.1
2	☐	0.000	-66.745	304595.36	0.0434	P	0.8
3	☐	1000.000	1184.568	368023.77	0.0541	P	2.2
4	☐	2500.000	2595.496	444584.47	0.0661	P	2.0
5	☐	5000.000	4632.144	572781.55	0.0836	P	0.6
6	☐	10000.000	10745.304	898765.34	0.1359	P	2.1
7	☐	20000.000	19698.147	1549154.87	0.2126	A	7.2
8	☐			255646.30	0.0379	P	1.2

$$y = 8.5617E-006 * x + 0.0439$$

$$R = 0.9987$$

$$DL = 303.2$$

$$BEC = 5130$$

Weight: <None>

Min Conc: 0

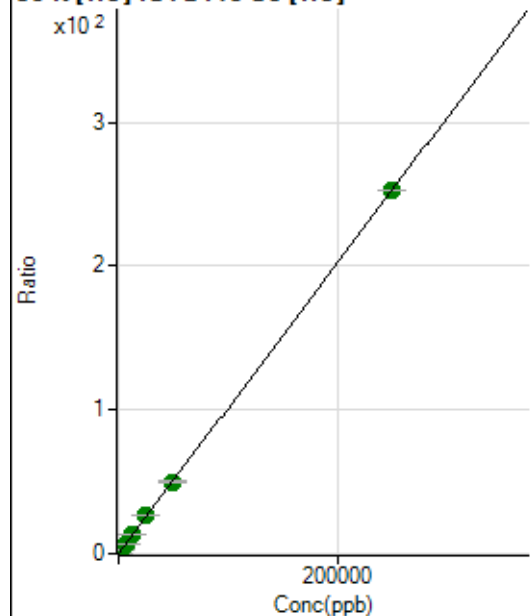
35 Cl [No Gas] No available calibration points



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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	71080.34	0.1093	P	1.2
2	☐	500.000	522.179	411604.89	0.6361	P	0.3
3	☐	2500.000	2681.795	1789162.44	2.8145	A	1.2
4	☐	6250.000	6424.482	4103906.74	6.5897	A	1.3
5	☐	12500.000	12561.630	8030809.39	12.7802	A	0.7
6	☐	25000.000	26054.844	16568435.31	26.3907	A	0.8
7	☐	50000.000	49175.510	32662169.24	49.7125	A	2.7
8	☐	250000.00	250050.10	152120982.18	252.3338	A	0.2

$$y = 0.0010 * x + 0.1093$$

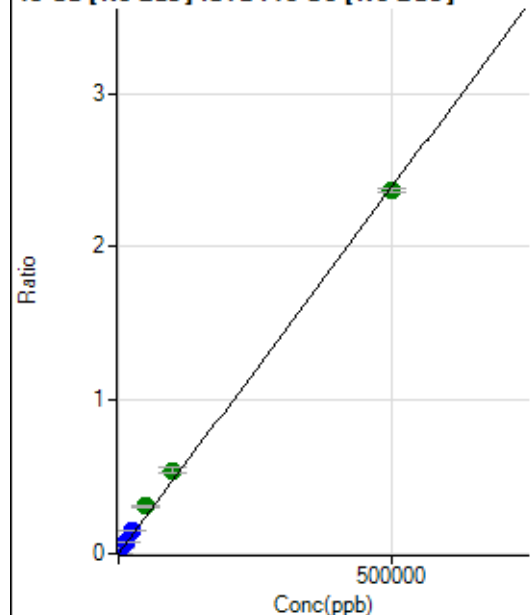
$$R = 1.0000$$

$$DL = 3.854$$

$$BEC = 108.4$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	137.78	0.0000	P	18.4
2	☐	500.000	561.425	18978.64	0.0027	P	1.2
3	☐	5000.000	6895.933	224318.14	0.0330	P	1.4
4	☐	12500.000	16442.851	527955.74	0.0785	P	1.0
5	☐	25000.000	31061.328	1016574.37	0.1484	P	1.8
6	☐	50000.000	64896.073	2049188.51	0.3099	A	3.5
7	☐	100000.00	114093.36	3969060.08	0.5449	A	8.4
8	☐	500000.00	495271.06	15956216.57	2.3652	A	1.0

$$y = 4.7754\text{E-}006 * x + 1.9879\text{E-}005$$

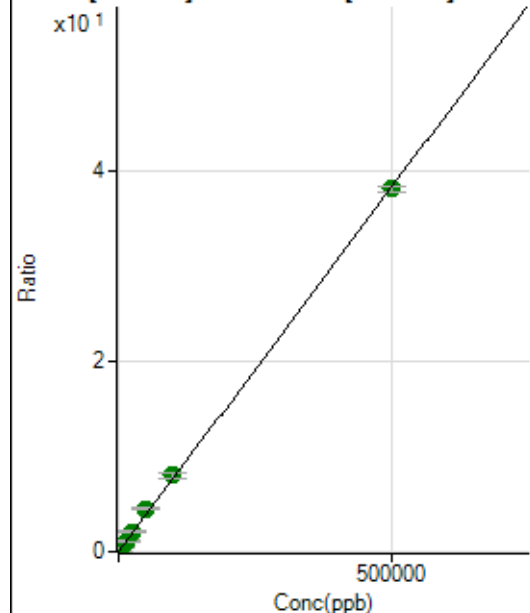
$$R = 0.9993$$

$$DL = 2.299$$

$$BEC = 4.163$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	13462.16	0.0019	P	2.3
2	☐	500.000	552.814	311475.20	0.0443	P	1.1
3	☐	5000.000	6041.678	3167432.35	0.4653	A	1.3
4	☐	12500.000	14480.921	7477591.90	1.1125	A	1.5
5	☐	25000.000	27499.941	14464523.81	2.1109	A	2.3
6	☐	50000.000	59117.933	29994858.16	4.5357	A	1.9
7	☐	100000.00	105121.71	58770411.90	8.0637	A	7.0
8	☐	500000.00	497878.87	257591513.94	38.1842	A	1.7

$$y = 7.6690\text{E-}005 * x + 0.0019$$

$$R = 0.9998$$

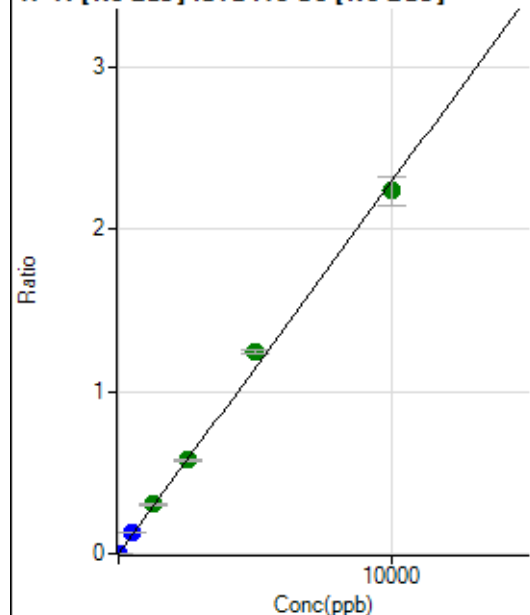
$$DL = 1.706$$

$$BEC = 25.26$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	103.33	0.0000	P	28.6
2	☐	5.000	5.182	8441.32	0.0012	P	1.3
3	☐	500.000	562.854	877486.11	0.1289	P	1.4
4	☐	1250.000	1327.478	2043142.07	0.3040	A	2.3
5	☐	2500.000	2532.729	3974138.10	0.5800	A	2.1
6	☐	5000.000	5444.029	8243603.49	1.2466	A	1.9
7	☐	10000.000	9756.976	16279603.23	2.2342	A	7.6
8	☐			3402.65	0.0005	P	18.8

$$y = 2.2898\text{E-}004 * x + 1.4930\text{E-}005$$

$$R = 0.9985$$

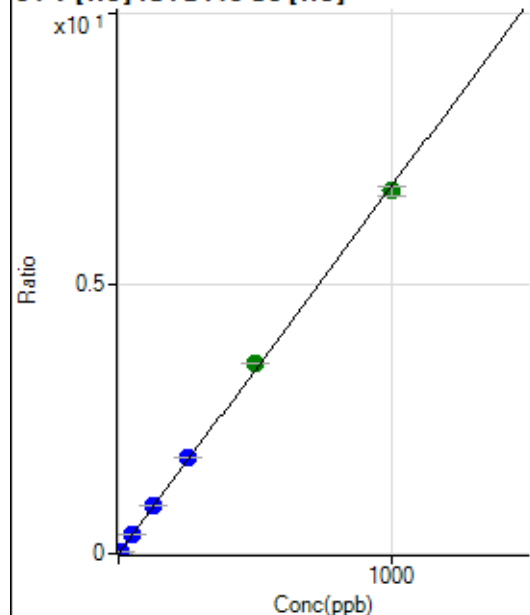
$$DL = 0.05603$$

$$BEC = 0.0652$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	11.11	0.0000	P	18.1
2	☐	5.000	5.039	22189.70	0.0343	P	1.5
3	☐	50.000	54.154	234183.67	0.3684	P	1.1
4	☐	125.000	130.469	552710.12	0.8875	P	1.0
5	☐	250.000	260.721	1114382.20	1.7735	P	1.1
6	☐	500.000	517.219	2208832.90	3.5182	A	0.4
7	☐	1000.000	987.819	4414881.95	6.7193	A	2.6
8	☐			1065.60	0.0018	P	0.7

$$y = 0.0068 * x + 1.7106\text{E-}005$$

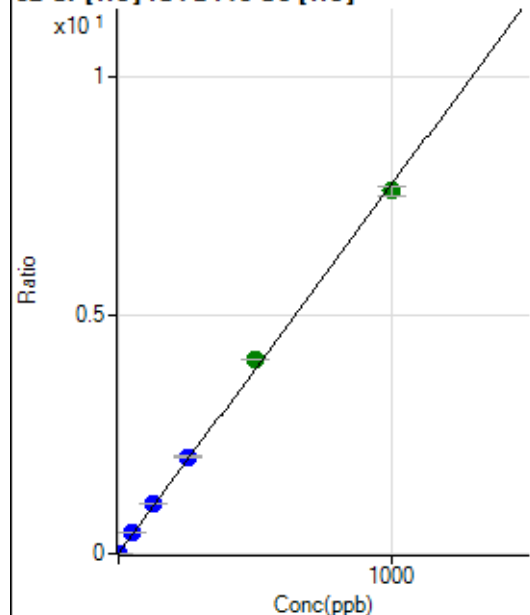
$$R = 0.9997$$

$$DL = 0.001368$$

$$BEC = 0.002515$$

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	1784.57	0.0027	P	1.6
2	☐	2.000	1.991	11741.31	0.0181	P	3.9
3	☐	50.000	55.321	273745.08	0.4306	P	1.1
4	☐	125.000	133.206	643346.51	1.0330	P	0.9
5	☐	250.000	261.930	1274710.26	2.0286	P	0.8
6	☐	500.000	525.404	2552984.06	4.0664	A	0.4
7	☐	1000.000	983.024	4997145.27	7.6058	A	2.7
8	☐			34861.33	0.0578	P	1.5

$$y = 0.0077 * x + 0.0027$$

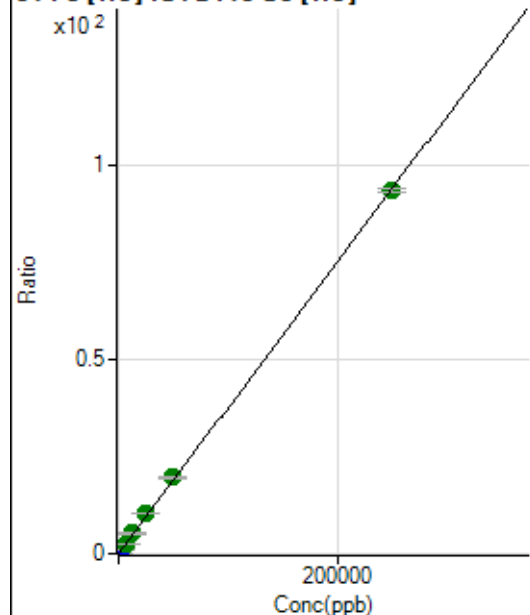
$$R = 0.9994$$

$$DL = 0.01672$$

$$BEC = 0.355$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2546.90	0.0039	P	5.3
2	☐	50.000	55.588	16051.98	0.0248	P	0.7
3	☐	2500.000	3086.402	739736.53	1.1636	P	0.2
4	☐	6250.000	7043.050	1650552.70	2.6502	A	0.3
5	☐	12500.000	13895.007	3282970.44	5.2247	A	1.1
6	☐	25000.000	27873.085	6577386.01	10.4767	A	0.9
7	☐	50000.000	52451.085	12951896.47	19.7114	A	2.1
8	☐	250000.00	249127.03	56431102.49	93.6084	A	0.9

$$y = 3.7573E-004 * x + 0.0039$$

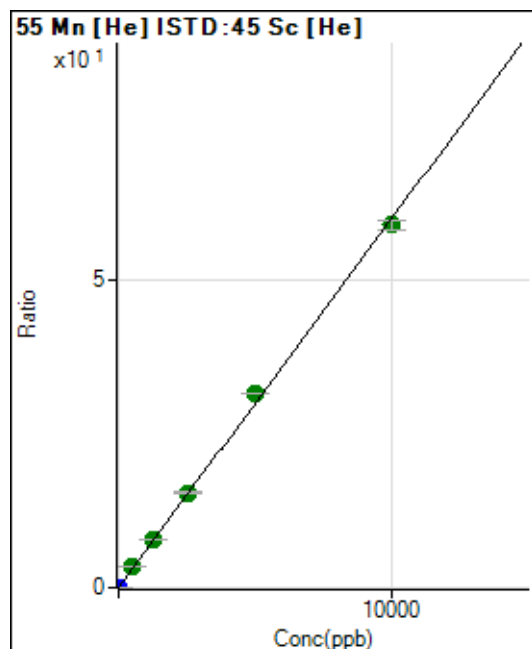
$$R = 0.9999$$

$$DL = 1.651$$

$$BEC = 10.43$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	111.12	0.0002	P	20.1
2	☐	1.000	1.125	4478.48	0.0069	P	3.1
3	☐	500.000	552.131	2105348.46	3.3117	A	0.6
4	☐	1250.000	1307.329	4883416.42	7.8411	A	1.1
5	☐	2500.000	2570.926	9689128.05	15.4197	A	1.0
6	☐	5000.000	5271.126	19848246.23	31.6146	A	0.7
7	☐	10000.000	9836.933	38765143.31	58.9987	A	2.5
8	☐			19946.65	0.0331	P	0.1

$$y = 0.0060 * x + 1.7070E-004$$

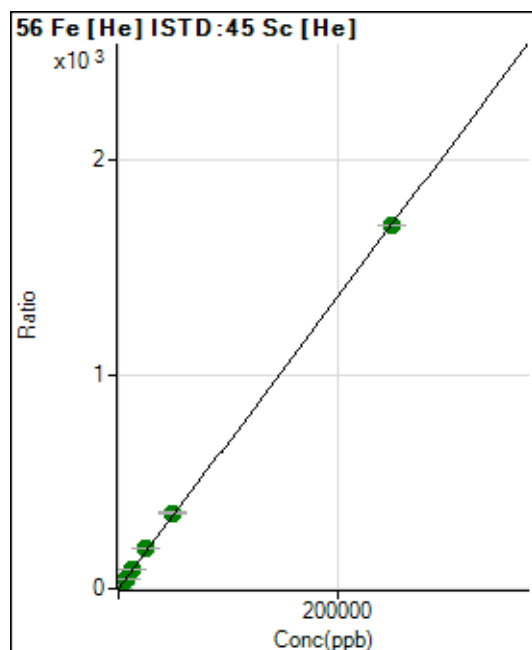
$$R = 0.9994$$

$$DL = 0.01716$$

$$BEC = 0.02846$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	16121.04	0.0248	P	3.6
2	☐	50.000	55.836	261747.42	0.4045	P	0.6
3	☐	2500.000	2885.259	12487733.56	19.6448	A	1.7
4	☐	6250.000	6827.694	28932108.74	46.4537	A	0.3
5	☐	12500.000	13503.917	57715463.58	91.8525	A	1.3
6	☐	25000.000	27847.050	118898989.34	189.3870	A	0.9
7	☐	50000.000	51635.985	230726914.34	351.1537	A	2.4
8	☐	250000.00	249319.60	1022094082.5	1.695.418	A	0.1

$$y = 0.0068 * x + 0.0248$$

$$R = 0.9999$$

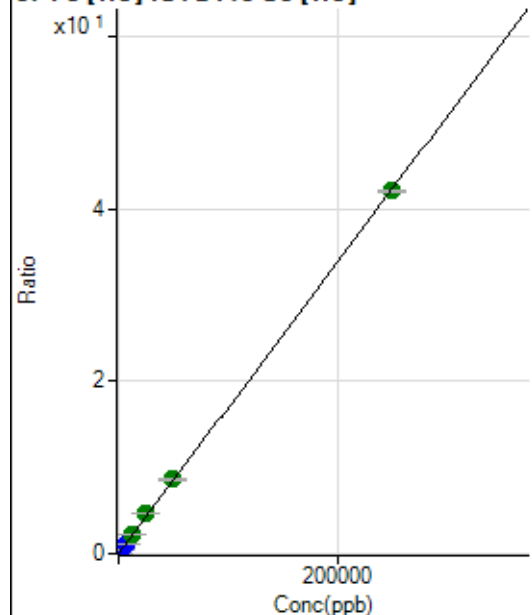
$$DL = 0.3898$$

$$BEC = 3.646$$

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	650.02	0.0010	P	8.4
2	☐	50.000	57.176	6894.96	0.0107	P	1.6
3	☐	2500.000	3022.996	325160.89	0.5115	P	1.8
4	☐	6250.000	7206.799	758620.23	1.2181	P	0.4
5	☐	12500.000	13535.355	1436898.50	2.2868	A	1.6
6	☐	25000.000	27798.633	2947946.07	4.6956	A	1.1
7	☐	50000.000	51303.398	5693371.03	8.6651	A	2.5
8	☐	250000.00	249378.53	25389402.68	42.1160	A	0.8

$$y = 1.6888\text{E-}004 * x + 9.9938\text{E-}004$$

$$R = 0.9999$$

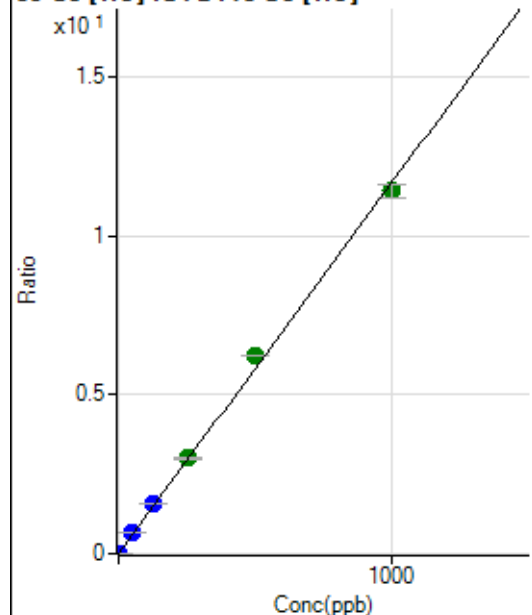
$$DL = 1.483$$

$$BEC = 5.918$$

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	92.22	0.0001	P	21.2
2	☐	1.000	1.047	8002.20	0.0124	P	2.2
3	☐	50.000	55.928	415214.89	0.6532	P	1.1
4	☐	125.000	134.289	976608.61	1.5681	P	0.7
5	☐	250.000	259.185	1901520.53	3.0264	A	2.1
6	☐	500.000	534.461	3917915.74	6.2406	A	0.9
7	☐	1000.000	979.016	7509673.43	11.4312	A	3.5
8	☐			7842.11	0.0130	P	1.5

$$y = 0.0117 * x + 1.4197\text{E-}004$$

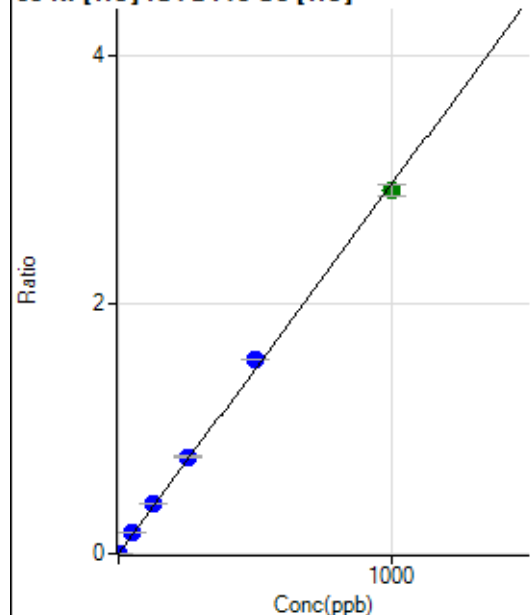
$$R = 0.9990$$

$$DL = 0.007737$$

$$BEC = 0.01216$$

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	68.89	0.0001	P	20.5
2	☐	1.000	1.079	2136.84	0.0033	P	7.9
3	☐	50.000	57.052	107465.77	0.1691	P	1.5
4	☐	125.000	135.155	249334.38	0.4003	P	0.1
5	☐	250.000	261.436	486511.06	0.7743	P	1.7
6	☐	500.000	526.069	978102.93	1.5580	P	0.9
7	☐	1000.000	982.485	1911508.91	2.9095	A	3.3
8	☐			4073.92	0.0068	P	1.4

$$y = 0.0030 * x + 1.0611E-004$$

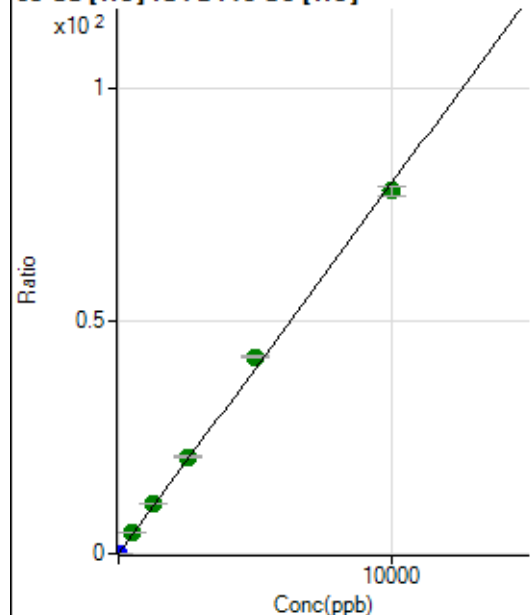
$$R = 0.9994$$

$$DL = 0.02204$$

$$BEC = 0.03583$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1008.93	0.0016	P	4.5
2	☐	2.000	2.173	12168.37	0.0188	P	2.1
3	☐	500.000	571.799	2887005.75	4.5412	A	0.4
4	☐	1250.000	1347.715	6664697.33	10.7015	A	1.0
5	☐	2500.000	2609.922	13021117.44	20.7225	A	1.3
6	☐	5000.000	5313.842	26488417.94	42.1897	A	0.6
7	☐	10000.000	9799.794	51118752.57	77.8051	A	2.8
8	☐			8800.44	0.0146	P	1.3

$$y = 0.0079 * x + 0.0016$$

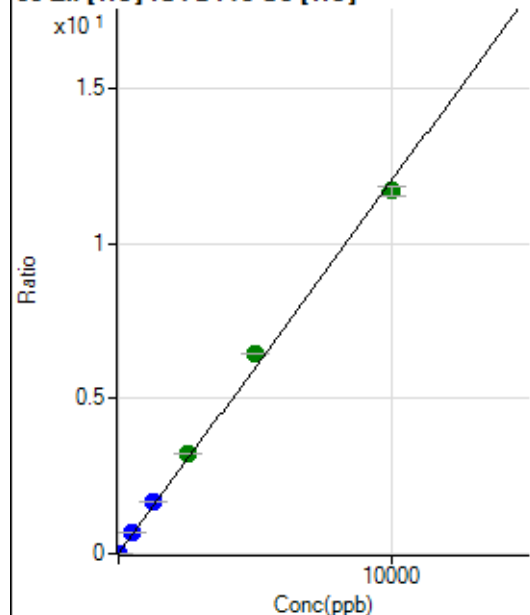
$$R = 0.9992$$

$$DL = 0.02618$$

$$BEC = 0.1955$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	326.67	0.0005	P	9.1
2	☐	2.000	2.503	2272.42	0.0035	P	2.3
3	☐	500.000	585.827	447963.62	0.7047	P	1.0
4	☐	1250.000	1399.856	1048251.87	1.6831	P	0.7
5	☐	2500.000	2697.510	2037887.09	3.2429	A	0.2
6	☐	5000.000	5384.864	4064060.74	6.4732	A	0.2
7	☐	10000.000	9735.167	7688846.06	11.7023	A	2.5
8	☐			4549.63	0.0075	P	4.1

$$y = 0.0012 * x + 5.0281E-004$$

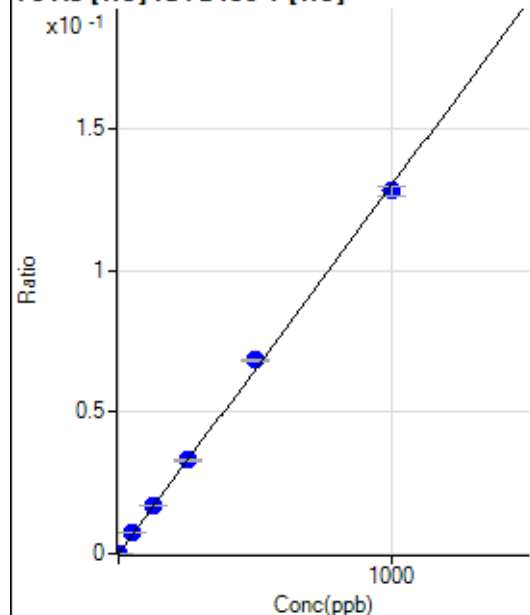
$$R = 0.9986$$

$$DL = 0.1142$$

$$BEC = 0.4183$$

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	3.33	0.0000	P	0.5
2	☐	1.000	1.036	540.01	0.0001	P	7.9
3	☐	50.000	56.071	28333.80	0.0073	P	1.0
4	☐	125.000	132.363	66404.29	0.0172	P	0.9
5	☐	250.000	253.710	131326.19	0.0330	P	1.9
6	☐	500.000	525.025	269547.21	0.0683	P	0.7
7	☐	1000.000	985.336	526570.49	0.1283	P	2.8
8	☐			118.89	0.0000	P	35.0

$$y = 1.3016E-004 * x + 8.3718E-007$$

$$R = 0.9995$$

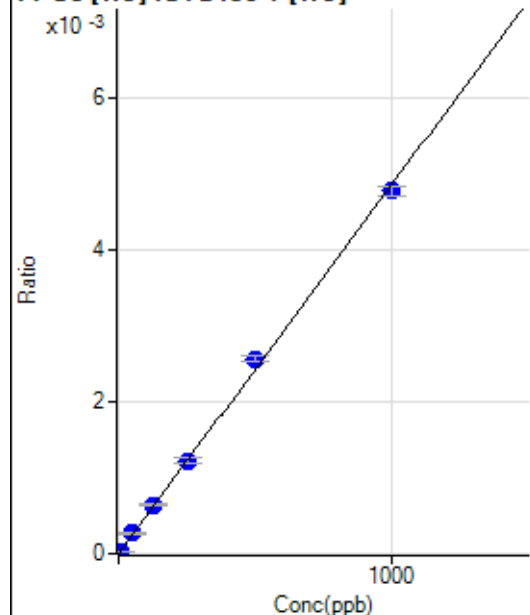
$$DL = 9.238E-05$$

$$BEC = 0.006432$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.586	107.78	0.0000	P	14.1
3	☐	50.000	55.272	1040.05	0.0003	P	1.9
4	☐	125.000	132.262	2470.23	0.0006	P	6.1
5	☐	250.000	252.097	4857.51	0.0012	P	5.5
6	☐	500.000	528.401	10101.31	0.0026	P	2.4
7	☐	1000.000	984.101	19585.21	0.0048	P	2.5
8	☐			10.00	0.0000	P	33.9

$$y = 4.8470\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9994$$

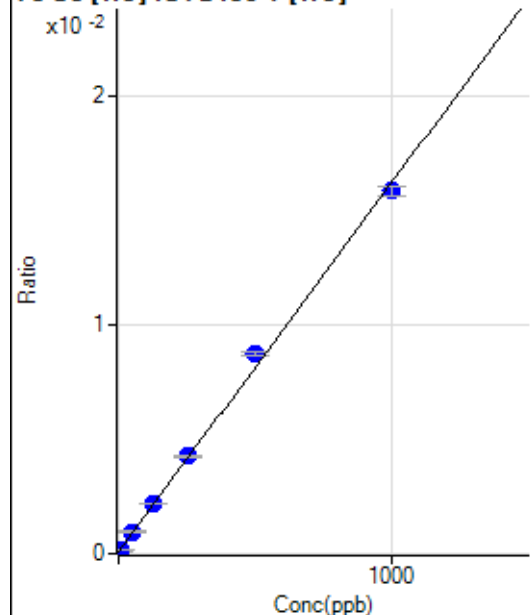
$$DL = 0$$

$$BEC = 0$$

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	337.78	0.0001	P	13.9
2	☐	5.000	5.410	685.58	0.0002	P	3.0
3	☐	50.000	54.248	3724.95	0.0010	P	5.9
4	☐	125.000	130.502	8440.26	0.0022	P	1.6
5	☐	250.000	258.930	16948.69	0.0043	P	1.9
6	☐	500.000	536.740	34484.54	0.0087	P	2.2
7	☐	1000.000	978.495	65157.01	0.0159	P	2.4
8	☐			371.12	0.0001	P	6.2

$$y = 1.6131\text{E-}005 * x + 8.4897\text{E-}005$$

$$R = 0.9989$$

$$DL = 2.198$$

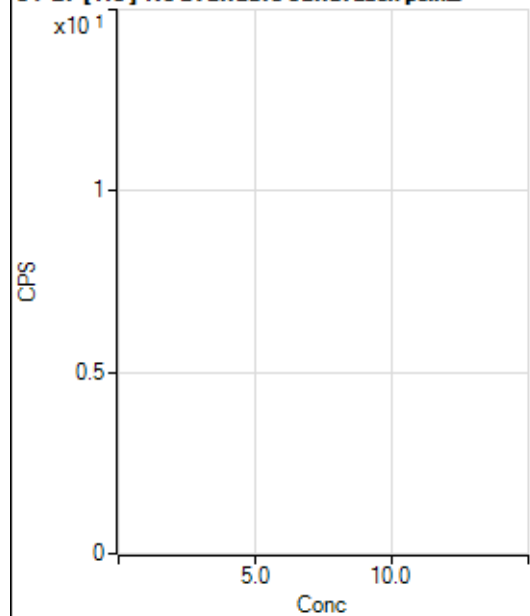
$$BEC = 5.263$$

Weight: <None>

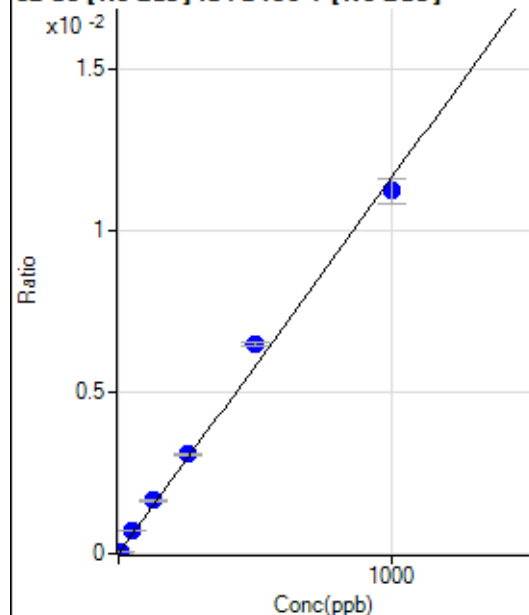
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38802.30		P	0.7
2	☐			38214.02		P	1.6
3	☐			38612.85		P	1.9
4	☐			36231.30		P	2.8
5	☐			36242.36		P	1.9
6	☐			37810.77		P	1.6
7	☐			38947.18		P	2.2
8	☐			40718.44		P	3.7

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			78.89		P	4.9
2	☐			65.56		P	19.2
3	☐			82.22		P	20.8
4	☐			70.00		P	19.0
5	☐			90.00		P	6.4
6	☐			93.33		P	18.9
7	☐			94.45		P	11.3
8	☐			137.78		P	11.4

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31.69	0.0000	P	144.
2	☐	5.000	5.594	1047.72	0.0001	P	5.7
3	☐	50.000	59.196	10579.84	0.0007	P	1.5
4	☐	125.000	140.840	24981.11	0.0016	P	1.2
5	☐	250.000	264.072	48445.40	0.0031	P	3.4
6	☐	500.000	556.431	99046.80	0.0065	P	2.0
7	☐	1000.000	965.823	189949.64	0.0112	P	6.7
8	☐			342.19	0.0000	P	10.0

$$y = 1.1634\text{E-}005 * x + 2.0361\text{E-}006$$

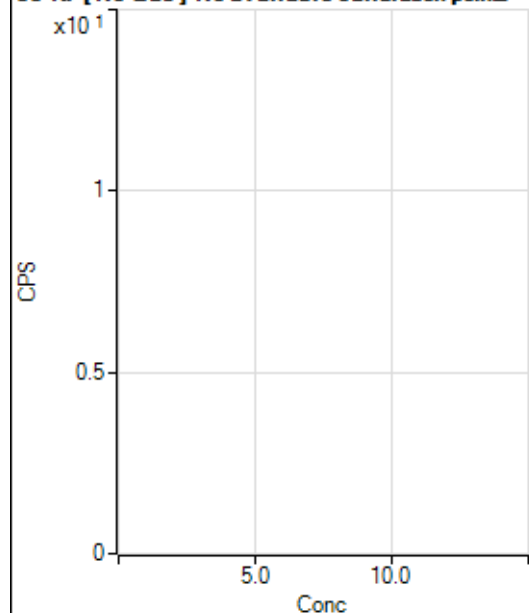
$$R = 0.9974$$

$$DL = 0.7583$$

$$BEC = 0.175$$

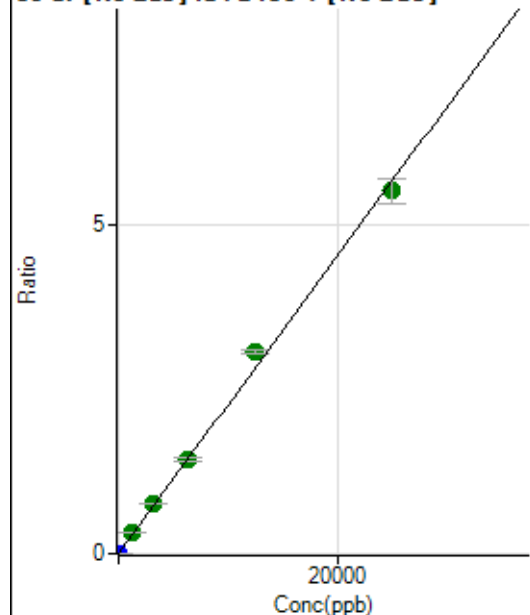
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			222.22		P	15.9
2	☐			228.89		P	10.7
3	☐			220.00		P	9.5
4	☐			215.56		P	11.2
5	☐			226.67		P	2.9
6	☐			253.34		P	4.7
7	☐			298.89		P	15.7
8	☐			294.45		P	10.5

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	355.56	0.0000	P	8.8
2	☐	1.000	1.002	3890.56	0.0002	P	1.7
3	☐	1250.000	1402.530	4845604.06	0.3164	A	1.6
4	☐	3125.000	3363.219	11550403.72	0.7586	A	1.8
5	☐	6250.000	6361.529	22611604.11	1.4349	A	3.4
6	☐	12500.000	13591.915	46896244.30	3.0657	A	1.6
7	☐	25000.000	24388.756	92966734.17	5.5009	A	7.0
8	☐			31197.82	0.0021	P	10.6

$$y = 2.2555\text{E-}004 * x + 2.3193\text{E-}005$$

$$R = 0.9985$$

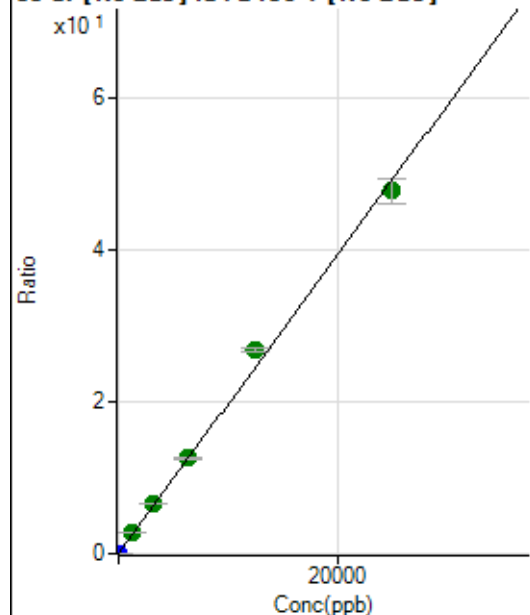
$$DL = 0.02707$$

$$BEC = 0.1028$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	155.56	0.0000	P	22.0
2	☐	1.000	1.030	31772.08	0.0020	P	1.8
3	☐	1250.000	1396.395	42063216.59	2.7464	A	2.1
4	☐	3125.000	3375.527	101083995.16	6.6390	A	2.0
5	☐	6250.000	6396.173	198278643.71	12.5800	A	1.7
6	☐	12500.000	13679.099	411562007.20	26.9040	A	2.2
7	☐	25000.000	24335.272	808910432.39	47.8624	A	7.0
8	☐			270425.27	0.0180	P	12.1

$$y = 0.0020 * x + 1.0135\text{E-}005$$

$$R = 0.9983$$

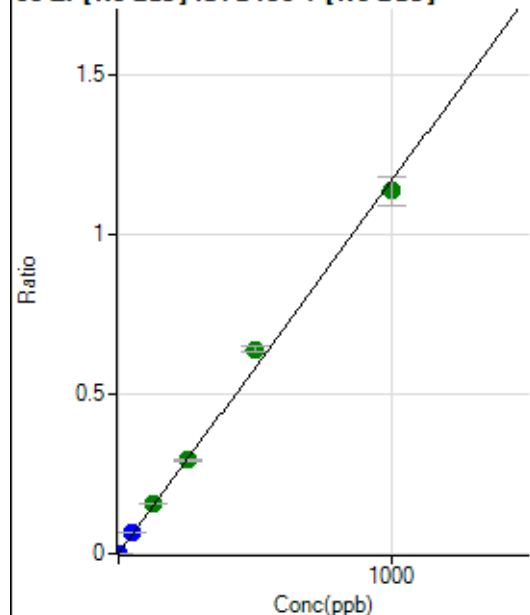
$$DL = 0.003401$$

$$BEC = 0.005153$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	655.58	0.0000	P	1.8
2	☐	1.000	0.998	18829.93	0.0012	P	2.7
3	☐	50.000	55.791	997178.37	0.0651	P	1.0
4	☐	125.000	133.464	2370429.62	0.1557	A	1.0
5	☐	250.000	250.994	4612923.33	0.2927	A	3.3
6	☐	500.000	549.197	9794492.22	0.6404	A	2.7
7	☐	1000.000	973.805	19186614.85	1.1356	A	7.8
8	☐			5855.69	0.0004	P	12.4

$$y = 0.0012 * x + 4.2727E-005$$

$$R = 0.9982$$

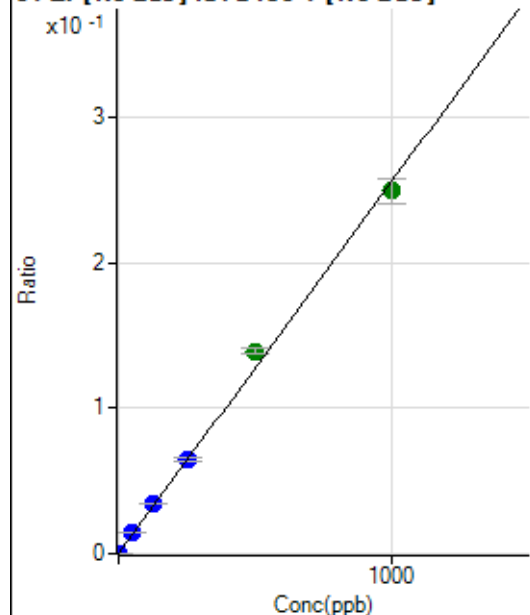
$$DL = 0.001998$$

$$BEC = 0.03664$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	126.67	0.0000	P	18.4
2	☐	1.000	0.996	4105.06	0.0003	P	1.6
3	☐	50.000	55.738	218427.14	0.0143	P	1.7
4	☐	125.000	134.028	522006.74	0.0343	P	1.0
5	☐	250.000	254.797	1026870.64	0.0652	P	3.3
6	☐	500.000	543.569	2125789.21	0.1390	A	3.1
7	☐	1000.000	975.601	4216055.32	0.2495	A	7.2
8	☐			1366.75	0.0001	P	12.4

$$y = 2.5571E-004 * x + 8.2555E-006$$

$$R = 0.9985$$

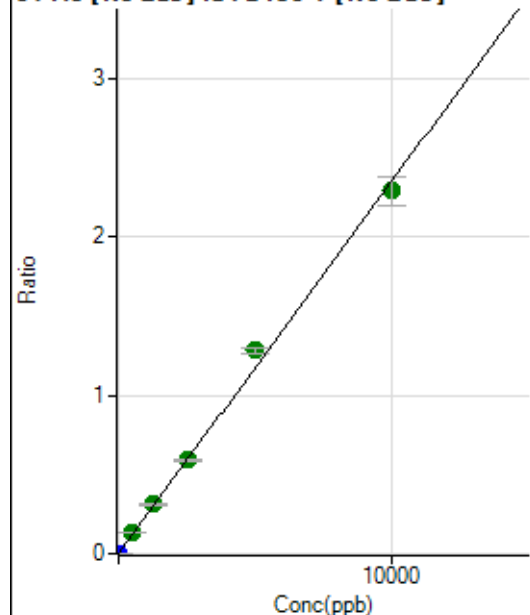
$$DL = 0.01785$$

$$BEC = 0.03228$$

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	186.67	0.0000	P	9.5
2	☐	5.000	5.866	21692.84	0.0014	P	1.4
3	☐	500.000	553.770	1991668.96	0.1301	A	3.3
4	☐	1250.000	1319.584	4719415.21	0.3099	A	0.9
5	☐	2500.000	2510.678	9292142.99	0.5896	A	3.1
6	☐	5000.000	5468.702	19644263.32	1.2843	A	2.5
7	☐	10000.000	9751.593	38692303.59	2.2902	A	8.0
8	☐			11504.66	0.0008	P	14.2

$$y = 2.3485\text{E-}004 * x + 1.2145\text{E-}005$$

$$R = 0.9983$$

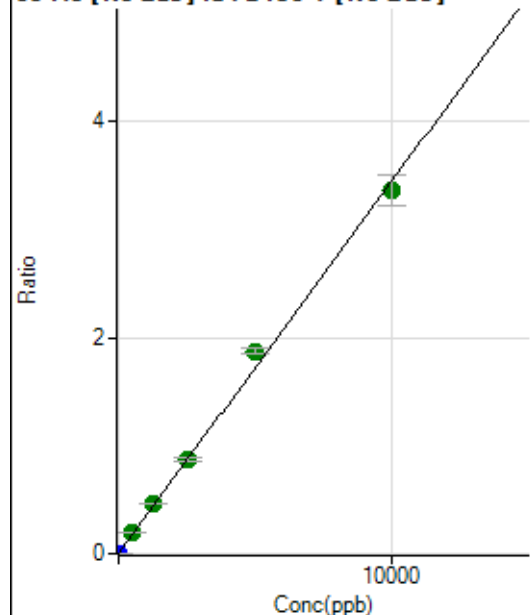
$$DL = 0.01478$$

$$BEC = 0.05172$$

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	37.78	0.0000	P	43.4
2	☐	5.000	5.003	26933.70	0.0017	P	1.8
3	☐	500.000	552.058	2912186.11	0.1901	A	2.0
4	☐	1250.000	1334.734	7000868.16	0.4597	A	0.8
5	☐	2500.000	2540.279	13787721.32	0.8749	A	3.2
6	☐	5000.000	5448.808	28704244.02	1.8767	A	2.5
7	☐	10000.000	9752.332	56740597.49	3.3589	A	8.4
8	☐			16595.17	0.0011	P	11.3

$$y = 3.4442\text{E-}004 * x + 2.4574\text{E-}006$$

$$R = 0.9985$$

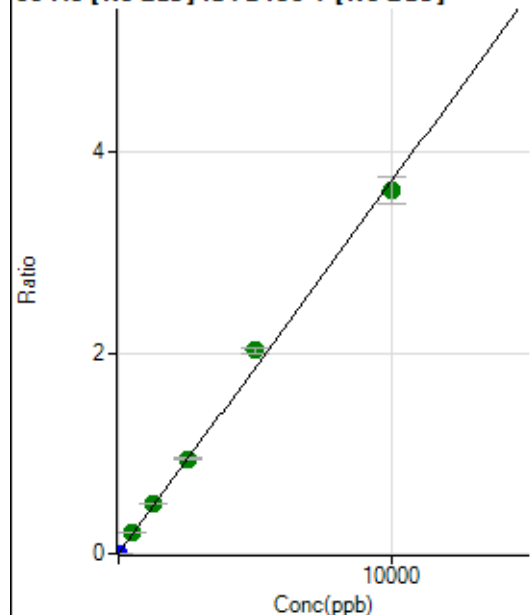
$$DL = 0.009299$$

$$BEC = 0.007135$$

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	122.22	0.0000	P	15.1
2	☐	5.000	5.088	29566.67	0.0019	P	1.9
3	☐	500.000	551.648	3132263.04	0.2045	A	1.5
4	☐	1250.000	1341.726	7574394.96	0.4974	A	0.9
5	☐	2500.000	2553.364	14915755.89	0.9465	A	3.3
6	☐	5000.000	5454.644	30928703.98	2.0220	A	2.3
7	☐	10000.000	9745.289	61044336.31	3.6124	A	7.4
8	☐			38912.07	0.0026	P	8.5

$$y = 3.7069\text{E-}004 * x + 7.9660\text{E-}006$$

$$R = 0.9984$$

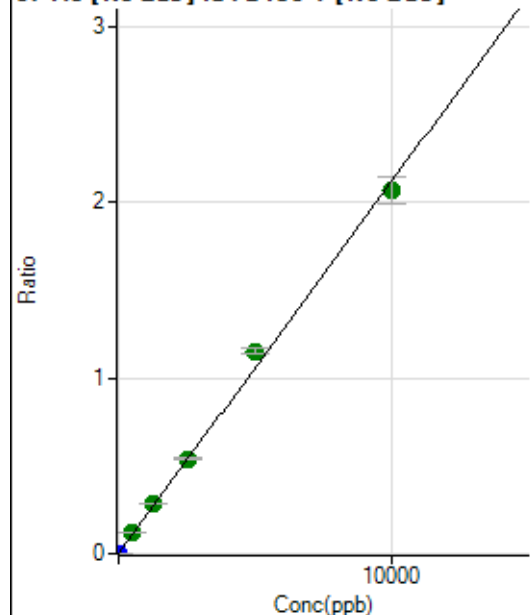
$$DL = 0.00971$$

$$BEC = 0.02149$$

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	22.22	0.0000	P	35.9
2	☐	5.000	4.994	16529.45	0.0011	P	2.5
3	☐	500.000	559.409	1814809.28	0.1185	A	0.9
4	☐	1250.000	1326.873	4279122.65	0.2810	A	0.7
5	☐	2500.000	2544.940	8494063.27	0.5389	A	2.2
6	☐	5000.000	5450.806	17654655.99	1.1543	A	2.5
7	☐	10000.000	9750.783	34893066.42	2.0649	A	7.4
8	☐			9602.22	0.0006	P	19.7

$$y = 2.1177\text{E-}004 * x + 1.4400\text{E-}006$$

$$R = 0.9985$$

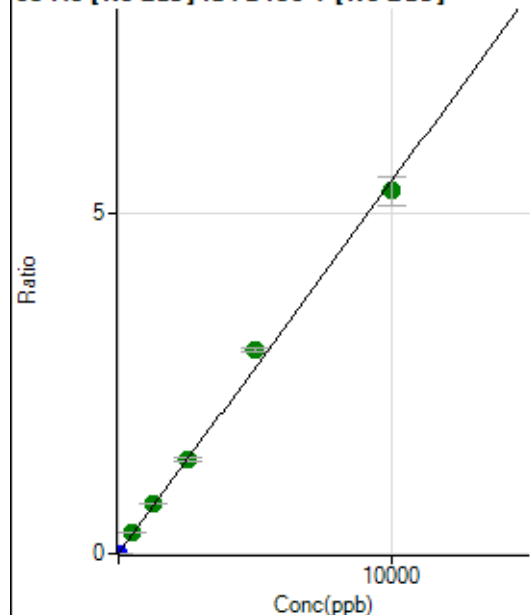
$$DL = 0.007319$$

$$BEC = 0.0068$$

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	47.78	0.0000	P	9.9
2	☐	5.000	4.970	42545.10	0.0027	P	0.9
3	☐	500.000	556.230	4667157.36	0.3047	A	1.4
4	☐	1250.000	1329.427	11089443.73	0.7282	A	1.3
5	☐	2500.000	2527.256	21817750.79	1.3844	A	2.6
6	☐	5000.000	5471.026	45836809.32	2.9969	A	2.6
7	☐	10000.000	9744.933	90191278.66	5.3381	A	7.9
8	☐			21718.93	0.0014	P	20.5

$$y = 5.4778\text{E-}004 * x + 3.1119\text{E-}006$$

$$R = 0.9983$$

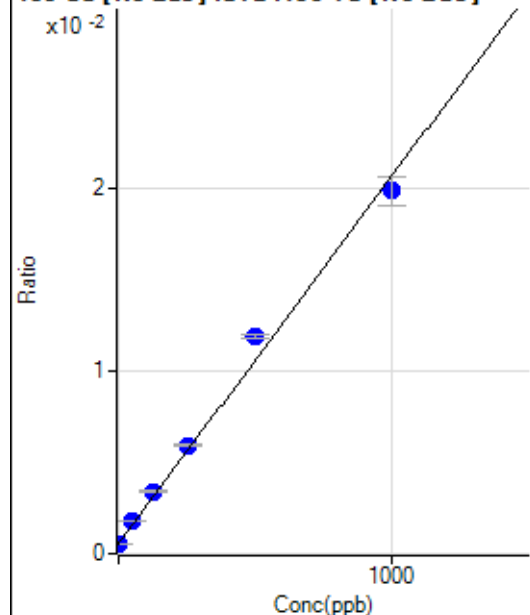
$$DL = 0.001695$$

$$BEC = 0.005681$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6927.28	0.0005	P	0.3
2	☐	1.000	1.192	7438.64	0.0006	P	3.2
3	☐	50.000	60.614	22836.99	0.0018	P	2.6
4	☐	125.000	141.900	44151.50	0.0034	P	2.1
5	☐	250.000	268.130	80610.12	0.0059	P	1.5
6	☐	500.000	563.842	155748.16	0.0119	P	1.2
7	☐	1000.000	960.903	288700.25	0.0199	P	8.1
8	☐			6621.58	0.0005	P	2.8

$$y = 2.0097\text{E-}005 * x + 5.4442\text{E-}004$$

$$R = 0.9966$$

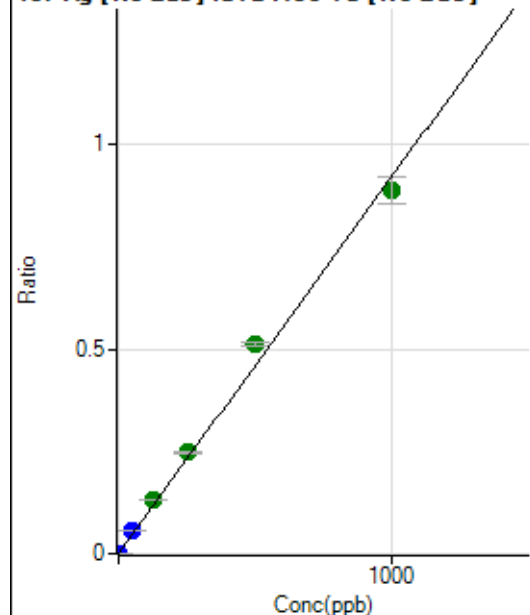
$$DL = 0.2416$$

$$BEC = 27.09$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	81.11	0.0000	P	8.6
2	☐	1.000	1.141	13827.82	0.0011	P	1.8
3	☐	50.000	61.030	728270.54	0.0562	P	1.3
4	☐	125.000	143.476	1717062.77	0.1321	A	2.6
5	☐	250.000	268.733	3361506.06	0.2474	A	1.5
6	☐	500.000	558.312	6740270.31	0.5140	A	2.0
7	☐	1000.000	963.300	12898980.09	0.8869	A	7.4
8	☐			5756.76	0.0005	P	6.4

$$y = 9.2065\text{E-}004 * x + 6.3834\text{E-}006$$

$$R = 0.9971$$

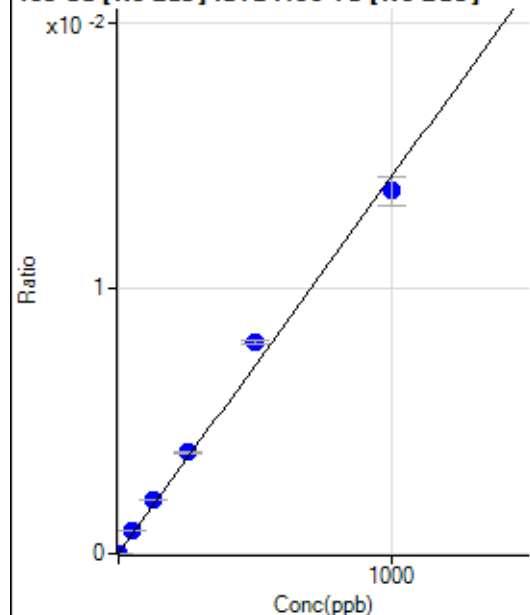
$$DL = 0.001793$$

$$BEC = 0.006934$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	26.67	0.0000	P	14.7
2	☐	1.000	1.082	228.89	0.0000	P	14.0
3	☐	50.000	60.194	11115.46	0.0009	P	3.4
4	☐	125.000	142.881	26431.94	0.0020	P	3.2
5	☐	250.000	269.550	52102.14	0.0038	P	1.7
6	☐	500.000	559.866	104421.98	0.0080	P	1.6
7	☐	1000.000	962.434	199003.14	0.0137	P	8.1
8	☐			123.33	0.0000	P	5.4

$$y = 1.4219\text{E-}005 * x + 2.1002\text{E-}006$$

$$R = 0.9970$$

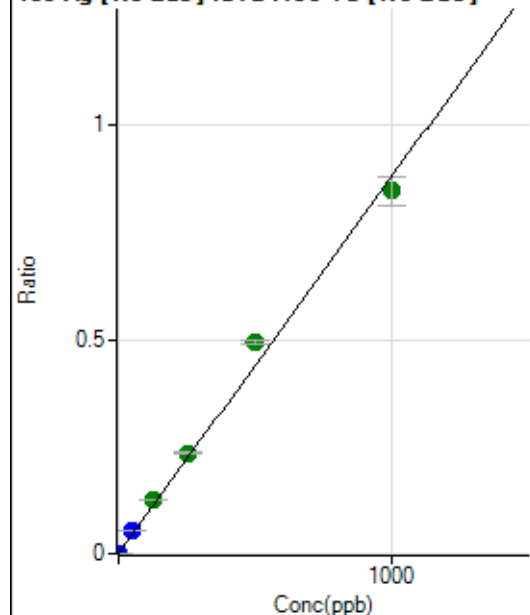
$$DL = 0.06498$$

$$BEC = 0.1477$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	35.56	0.0000	P	7.0
2	☐	1.000	1.137	13128.26	0.0010	P	3.1
3	☐	50.000	60.844	693807.19	0.0535	P	1.8
4	☐	125.000	142.341	1628070.97	0.1252	A	2.4
5	☐	250.000	267.866	3202411.48	0.2357	A	1.0
6	☐	500.000	560.034	6461926.08	0.4928	A	2.0
7	☐	1000.000	962.807	12319537.73	0.8472	A	7.8
8	☐			5459.96	0.0004	P	8.9

$$y = 8.7991\text{E-}004 * x + 2.7969\text{E-}006$$

$$R = 0.9970$$

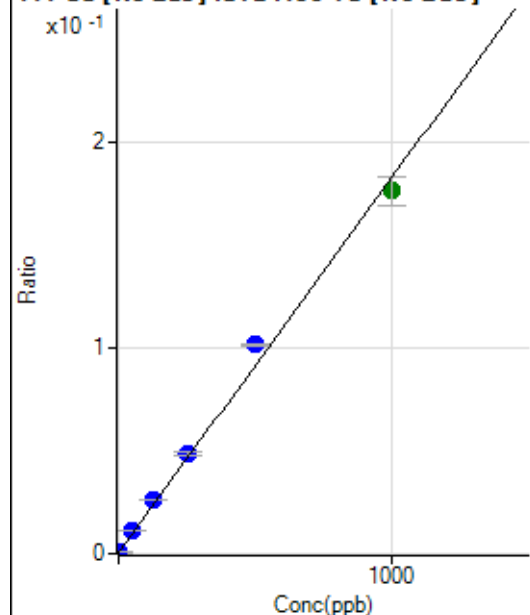
$$DL = 0.0006661$$

$$BEC = 0.003179$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4842.65	0.0004	P	0.3
2	☐	1.000	1.153	7729.32	0.0006	P	2.4
3	☐	50.000	60.112	146864.44	0.0113	P	1.6
4	☐	125.000	142.137	341641.30	0.0263	P	1.2
5	☐	250.000	264.840	660746.02	0.0486	P	2.4
6	☐	500.000	555.783	1333116.05	0.1016	P	0.9
7	☐	1000.000	965.750	2564020.30	0.1763	A	8.0
8	☐			5432.15	0.0004	P	2.3

$$y = 1.8220\text{E-}004 * x + 3.8059\text{E-}004$$

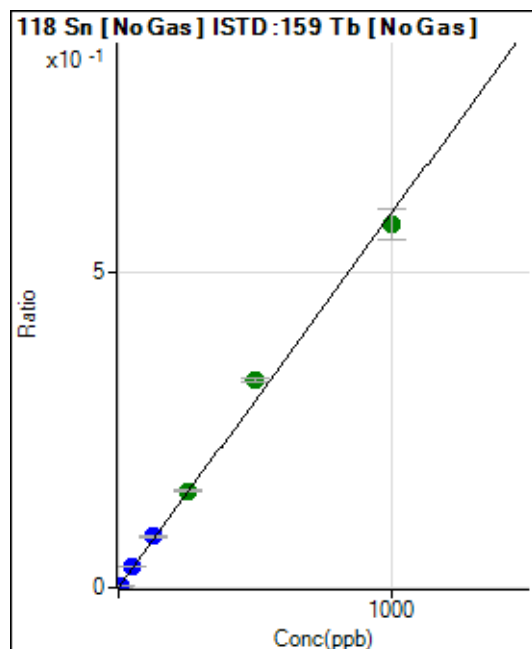
$$R = 0.9974$$

$$DL = 0.0177$$

$$BEC = 2.089$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1074.53	0.0001	P	10.2
2	☐	5.000	5.304	42289.75	0.0032	P	2.3
3	☐	50.000	57.092	440102.19	0.0340	P	2.0
4	☐	125.000	136.057	1050631.74	0.0808	P	2.0
5	☐	250.000	257.922	2080540.31	0.1531	A	1.5
6	☐	500.000	554.014	4312275.46	0.3288	A	1.9
7	☐	1000.000	969.274	8363146.82	0.5752	A	8.4
8	☐			4848.63	0.0004	P	8.8

$$y = 5.9339\text{E-}004 * x + 8.4375\text{E-}005$$

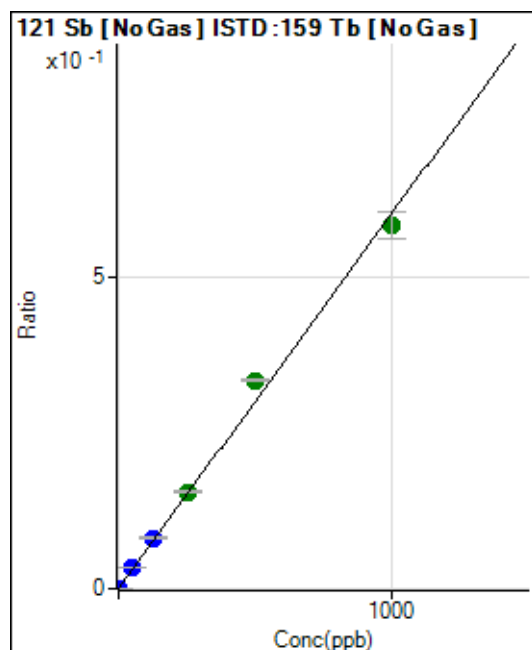
$$R = 0.9977$$

$$DL = 0.04333$$

$$BEC = 0.1422$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	35.56	0.0000	P	59.1
2	☐	2.000	2.129	16794.33	0.0013	P	2.2
3	☐	50.000	56.569	440971.84	0.0340	P	1.9
4	☐	125.000	135.734	1061567.28	0.0816	P	0.7
5	☐	250.000	259.026	2116769.08	0.1558	A	2.1
6	☐	500.000	556.128	4387007.81	0.3345	A	1.3
7	☐	1000.000	968.009	8468272.10	0.5822	A	7.3
8	☐			4969.79	0.0004	P	4.5

$$y = 6.0148\text{E-}004 * x + 2.7870\text{E-}006$$

$$R = 0.9975$$

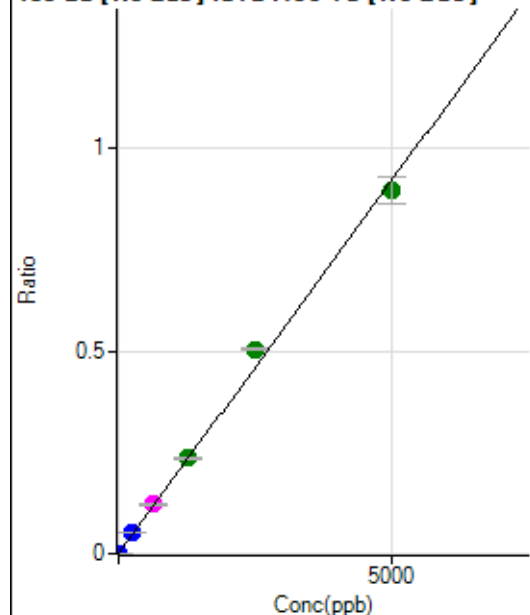
$$DL = 0.008218$$

$$BEC = 0.004634$$

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	16.67	0.0000	P	18.1
2	☐	10.000	9.975	24020.31	0.0018	P	1.1
3	☐	250.000	274.284	653537.90	0.0504	P	2.0
4	☐	625.000	660.120	1577855.38	0.1214	M	2.1
5	☐	1250.000	1277.296	3190816.86	0.2349	A	2.0
6	☐	2500.000	2745.677	6620962.19	0.5049	A	1.5
7	☐	5000.000	4864.733	13009007.86	0.8945	A	7.6
8	☐			6971.77	0.0005	P	6.3

$$y = 1.8387E-004 * x + 1.3067E-006$$

$$R = 0.9982$$

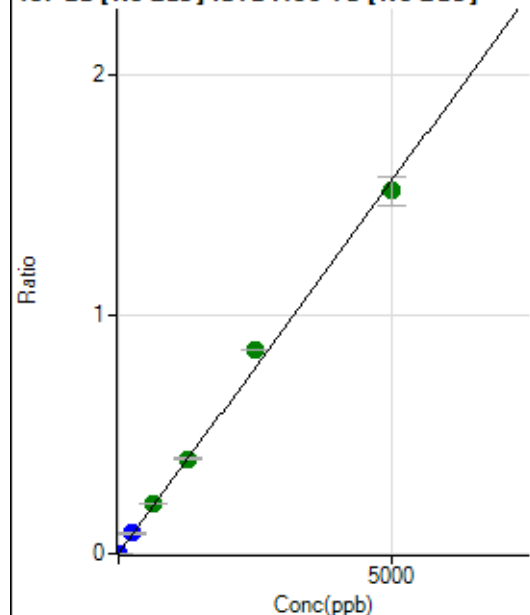
$$DL = 0.003855$$

$$BEC = 0.007107$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	40.00	0.0000	P	20.6
2	☐	10.000	10.047	40980.25	0.0031	P	1.2
3	☐	250.000	273.151	1102046.31	0.0850	P	1.9
4	☐	625.000	665.902	2695362.55	0.2073	A	1.5
5	☐	1250.000	1269.736	5370862.87	0.3953	A	2.2
6	☐	2500.000	2736.264	11173767.54	0.8519	A	0.8
7	☐	5000.000	4870.664	22051794.95	1.5164	A	7.7
8	☐			12292.09	0.0010	P	5.0

$$y = 3.1134E-004 * x + 3.1381E-006$$

$$R = 0.9983$$

$$DL = 0.00624$$

$$BEC = 0.01008$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	17.3
2	☐			14.44		P	35.3
3	☐			107.78		P	15.9
4	☐			191.12		P	12.3
5	☐			427.79		P	5.0
6	☐			823.36		P	3.9
7	☐			1517.88		P	4.8
8	☐			80.00		P	4.2

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			4.45		P	86.6
3	☐			17.78		P	28.6
4	☐			35.55		P	19.5
5	☐			84.44		P	9.9
6	☐			165.56		P	5.8
7	☐			326.67		P	5.7
8	☐			47.78		P	22.4

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			17.78		P	28.6
3	☐			47.78		P	31.5
4	☐			108.89		P	8.8
5	☐			212.22		P	12.6
6	☐			472.23		P	6.5
7	☐			817.81		P	9.4
8	☐			2244.65		P	5.2

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	24.7
2	☐			3.33		P	100.
3	☐			43.33		P	20.3
4	☐			111.11		P	12.1
5	☐			191.12		P	11.9
6	☐			392.23		P	7.9
7	☐			857.81		P	7.3
8	☐			1486.76		P	1.6

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

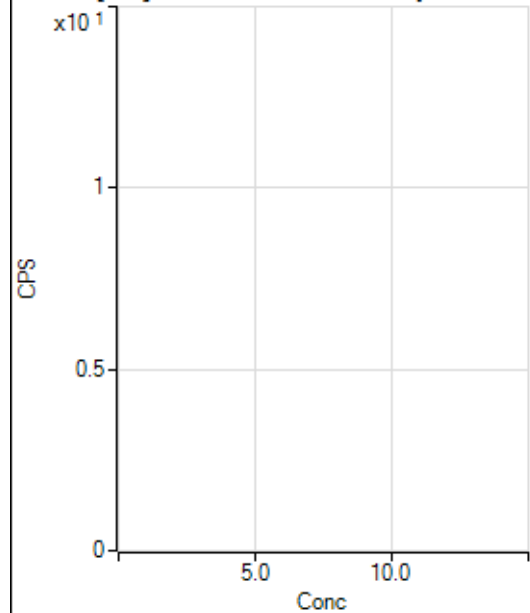
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			95.56		P	13.2
2	☐			77.78		P	9.9
3	☐			136.67		P	6.5
4	☐			156.67		P	23.0
5	☐			248.89		P	4.1
6	☐			403.34		P	9.5
7	☐			782.25		P	7.5
8	☐			2489.14		P	7.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			443.35		P	11.3
2	☐			437.79		P	7.8
3	☐			482.24		P	3.9
4	☐			502.24		P	4.7
5	☐			575.57		P	4.4
6	☐			645.58		P	2.9
7	☐			843.37		P	8.8
8	☐			2014.61		P	3.5

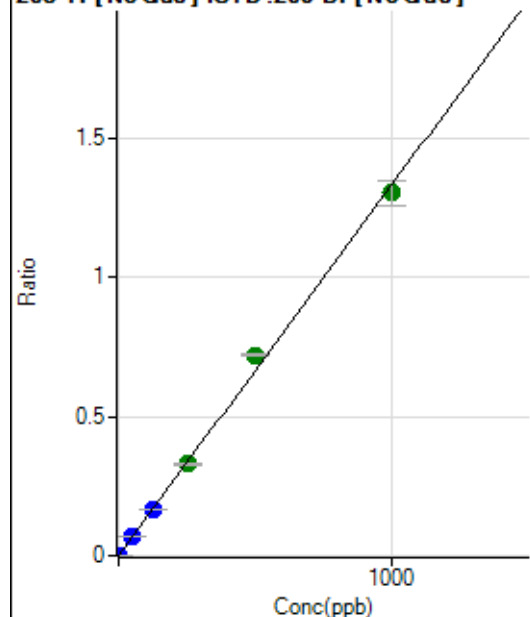
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			110.00		P	21.2
2	☐			100.00		P	13.3
3	☐			98.89		P	7.8
4	☐			92.22		P	9.1
5	☐			127.78		P	22.2
6	☐			126.67		P	7.0
7	☐			195.56		P	2.6
8	☐			240.00		P	8.4

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.78		P	46.5
2	☐			47.78		P	21.3
3	☐			68.89		P	7.4
4	☐			74.44		P	23.0
5	☐			57.78		P	8.8
6	☐			81.11		P	23.4
7	☐			96.67		P	24.1
8	☐			107.78		P	18.6

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	74.45	0.0000	P	11.6
2	☐	1.000	0.910	10600.88	0.0012	P	0.6
3	☐	50.000	50.779	574158.59	0.0676	P	1.2
4	☐	125.000	123.899	1382976.98	0.1648	P	0.9
5	☐	250.000	249.002	2919051.34	0.3312	A	2.1
6	☐	500.000	541.841	5912961.51	0.7208	A	1.3
7	☐	1000.000	979.428	11586889.13	1.3028	A	6.8
8	☐			1604.56	0.0002	P	22.3

$$y = 0.0013 * x + 8.8538E-006$$

$$R = 0.9987$$

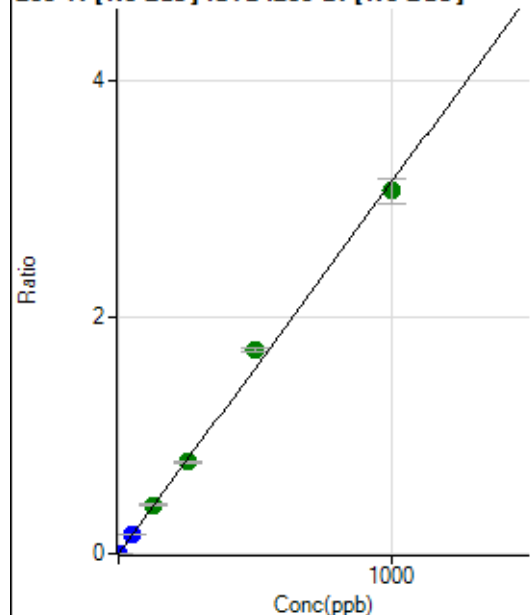
$$DL = 0.002306$$

$$BEC = 0.006656$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	182.22	0.0000	P	14.5
2	☐	1.000	0.921	25367.02	0.0029	P	1.0
3	☐	50.000	50.732	1356444.19	0.1596	P	1.5
4	☐	125.000	131.114	3460285.12	0.4125	A	1.8
5	☐	250.000	247.357	6857139.41	0.7781	A	2.7
6	☐	500.000	546.263	14094737.84	1.7184	A	1.9
7	☐	1000.000	976.729	27326165.15	3.0725	A	6.6
8	☐			3940.63	0.0006	P	22.3

$$y = 0.0031 * x + 2.1576E-005$$

$$R = 0.9984$$

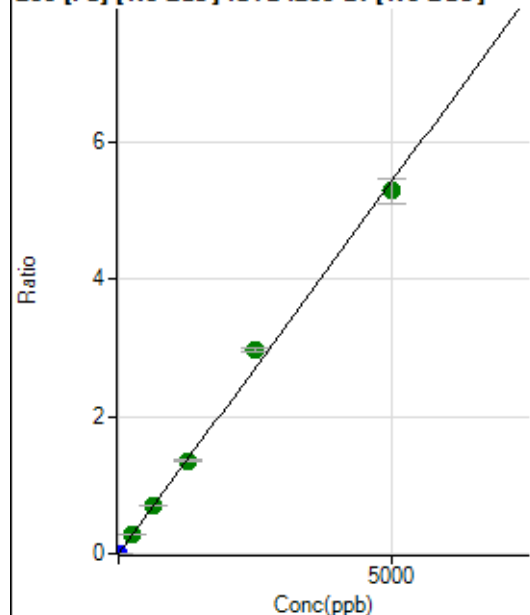
$$DL = 0.002976$$

$$BEC = 0.006859$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	267.78	0.0000	P	9.0
2	☐	1.000	0.932	9057.54	0.0010	P	2.7
3	☐	250.000	267.988	2469748.21	0.2906	A	1.1
4	☐	625.000	656.663	5974414.01	0.7120	A	0.3
5	☐	1250.000	1252.536	11968234.13	1.3580	A	1.4
6	☐	2500.000	2730.789	24286316.86	2.9607	A	1.8
7	☐	5000.000	4879.114	47039004.85	5.2899	A	7.2
8	☐			10813.35	0.0016	P	15.2

$$y = 0.0011 * x + 3.1841E-005$$

$$R = 0.9984$$

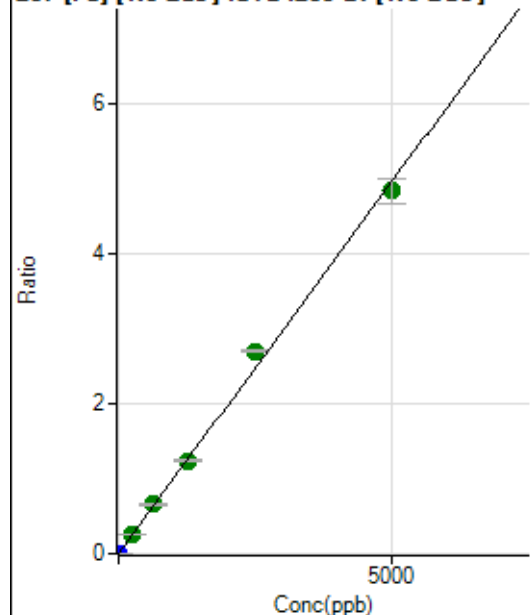
$$DL = 0.00792$$

$$BEC = 0.02937$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	221.12	0.0000	P	20.3
2	☐	1.000	0.907	8033.56	0.0009	P	2.2
3	☐	250.000	266.317	2241568.82	0.2638	A	1.8
4	☐	625.000	660.137	5485906.24	0.6538	A	0.6
5	☐	1250.000	1245.558	10871014.28	1.2335	A	1.6
6	☐	2500.000	2725.684	22141199.39	2.6993	A	1.4
7	☐	5000.000	4883.061	43003262.69	4.8358	A	7.0
8	☐			9441.20	0.0014	P	15.1

$$y = 9.9032E-004 * x + 2.6339E-005$$

$$R = 0.9985$$

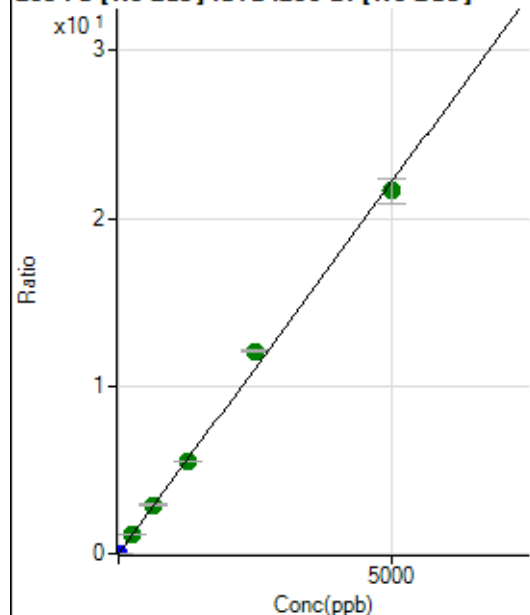
$$DL = 0.01621$$

$$BEC = 0.0266$$

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	1002.25	0.0001	P	3.1
2	☐	1.000	0.916	36300.32	0.0042	P	1.3
3	☐	250.000	266.466	10034955.22	1.1807	A	1.3
4	☐	625.000	656.462	24404516.17	2.9086	A	1.1
5	☐	1250.000	1242.352	48510060.53	5.5044	A	1.6
6	☐	2500.000	2726.426	99083918.80	12.0797	A	1.4
7	☐	5000.000	4883.943	192421622.68	21.6387	A	7.1
8	☐			42925.00	0.0062	P	14.6

$$y = 0.0044 * x + 1.1905E-004$$

$$R = 0.9985$$

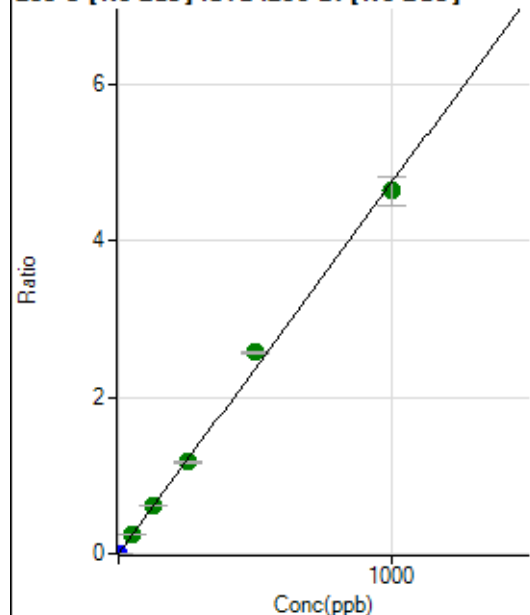
$$DL = 0.002534$$

$$BEC = 0.02687$$

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	27.78	0.0000	P	5.7
2	☐	1.000	0.883	36439.79	0.0042	P	0.5
3	☐	50.000	52.462	2116410.11	0.2490	A	0.2
4	☐	125.000	131.185	5223815.58	0.6226	A	1.4
5	☐	250.000	246.944	10327943.80	1.1719	A	2.5
6	☐	500.000	542.602	21121569.13	2.5751	A	1.7
7	☐	1000.000	978.567	41285505.77	4.6440	A	8.0
8	☐			5384.53	0.0008	P	27.2

$$y = 0.0047 * x + 3.2971E-006$$

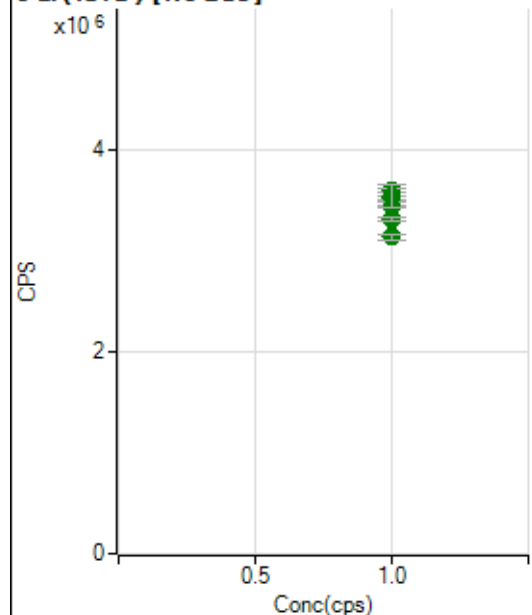
$$R = 0.9986$$

$$DL = 0.0001183$$

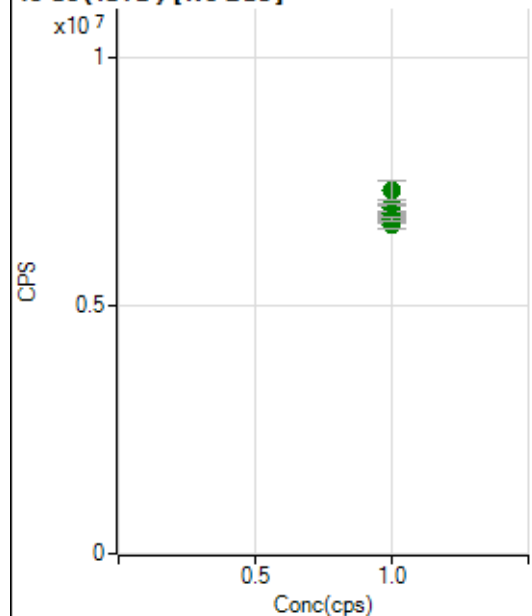
$$BEC = 0.0006947$$

Weight: <None>

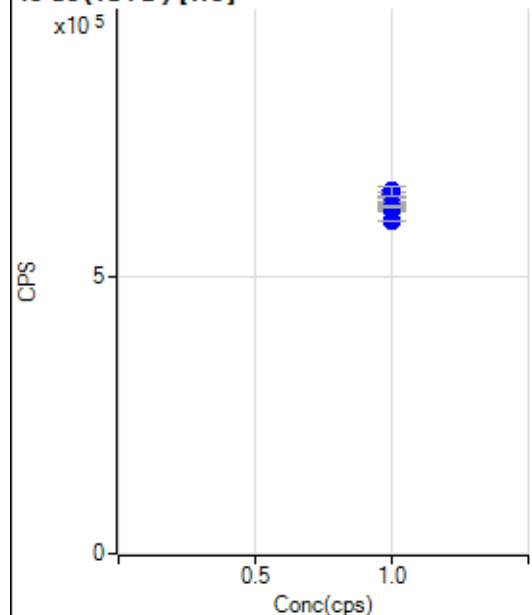
Min Conc: 0

6 Li (ISTD) [No Gas]

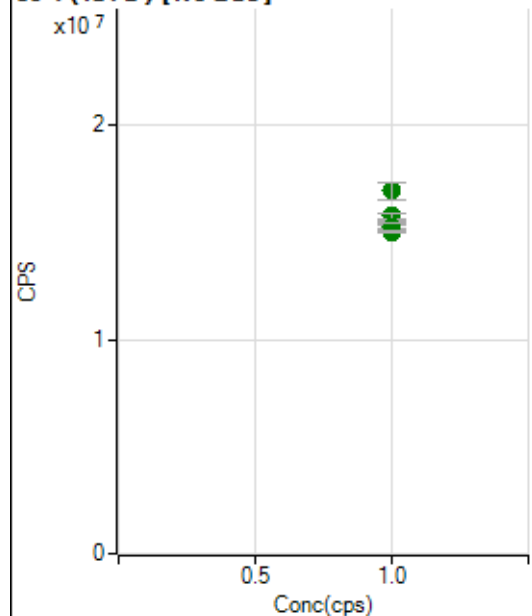
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3526877.35		A	1.1
2	☐	1.000		3601586.02		A	1.1
3	☐	1.000		3523895.26		A	1.4
4	☐	1.000		3447918.73		A	0.9
5	☐	1.000		3496106.68		A	0.7
6	☐	1.000		3328657.62		A	1.2
7	☐	1.000		3548137.52		A	6.1
8	☐	1.000		3149033.81		A	1.8

45 Sc (ISTD) [No Gas]

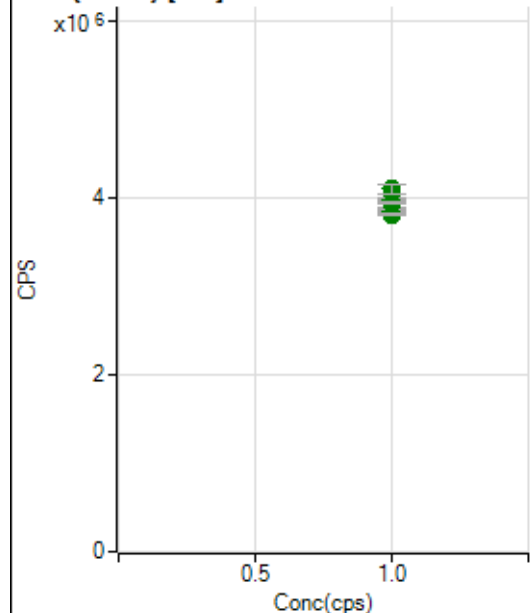
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		6951182.19		A	3.1
2	☐	1.000		7026297.12		A	0.8
3	☐	1.000		6808809.20		A	1.9
4	☐	1.000		6722725.94		A	1.8
5	☐	1.000		6853023.44		A	0.7
6	☐	1.000		6613916.57		A	1.9
7	☐	1.000		7306156.70		A	5.3
8	☐	1.000		6746764.55		A	1.1

45 Sc (ISTD) [He]

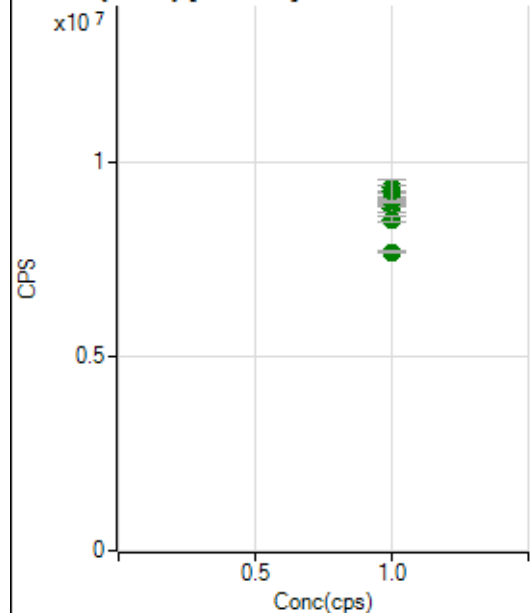
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		650101.34		P	1.1
2	☐	1.000		647121.57		P	0.4
3	☐	1.000		635746.73		P	1.0
4	☐	1.000		622808.52		P	0.6
5	☐	1.000		628411.04		P	1.2
6	☐	1.000		627832.79		P	0.7
7	☐	1.000		657299.80		P	2.4
8	☐	1.000		602858.58		P	0.5

89 Y (ISTD) [No Gas]

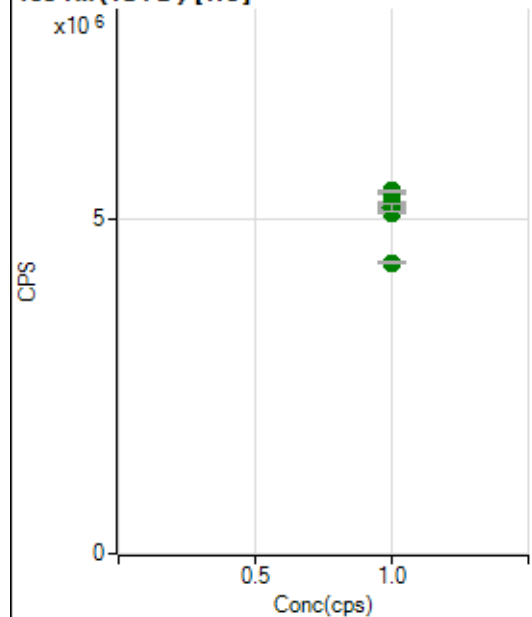
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15347626.44		A	2.2
2	☐	1.000		15609208.10		A	0.5
3	☐	1.000		15320315.19		A	2.2
4	☐	1.000		15229089.08		A	1.7
5	☐	1.000		15764245.60		A	1.6
6	☐	1.000		15299866.99		A	2.4
7	☐	1.000		16939157.94		A	4.9
8	☐	1.000		15029134.08		A	0.7

89 Y(ISTD) [He]

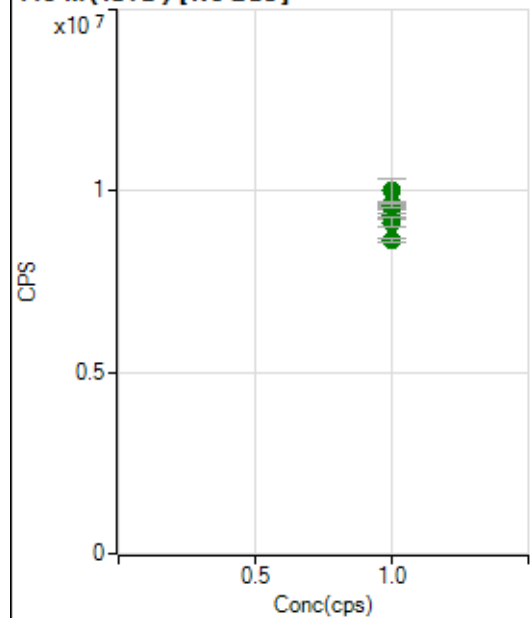
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3977687.93		A	0.5
2	☐	1.000		3981383.07		A	0.9
3	☐	1.000		3881930.08		A	1.0
4	☐	1.000		3854227.44		A	0.7
5	☐	1.000		3977465.11		A	1.5
6	☐	1.000		3944431.85		A	0.6
7	☐	1.000		4107571.47		A	2.4
8	☐	1.000		3816417.65		A	0.7

103 Rh(ISTD) [No Gas]

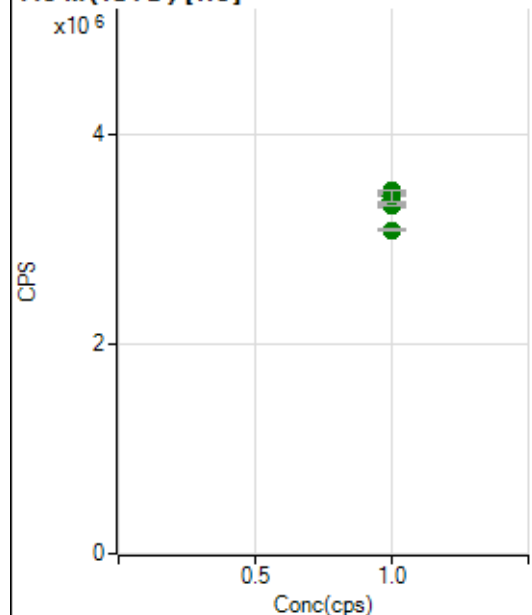
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9119990.28		A	2.3
2	☐	1.000		9362122.91		A	1.4
3	☐	1.000		9040967.64		A	2.3
4	☐	1.000		8817917.99		A	1.6
5	☐	1.000		9031271.11		A	1.6
6	☐	1.000		8541368.00		A	1.7
7	☐	1.000		9286468.96		A	5.9
8	☐	1.000		7705488.98		A	0.6

103 Rh (ISTD) [He]

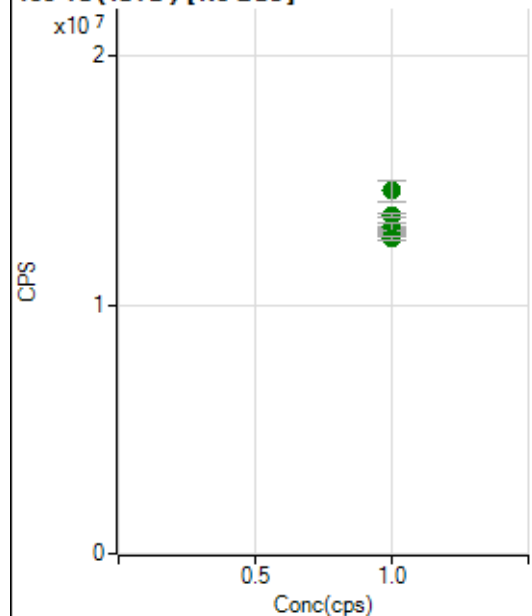
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5364296.03		A	0.6
2	☐	1.000		5406550.16		A	0.8
3	☐	1.000		5226111.52		A	0.5
4	☐	1.000		5146726.21		A	1.0
5	☐	1.000		5212426.38		A	0.6
6	☐	1.000		5064802.74		A	0.3
7	☐	1.000		5166054.92		A	2.5
8	☐	1.000		4340071.50		A	1.1

115 In (ISTD) [No Gas]

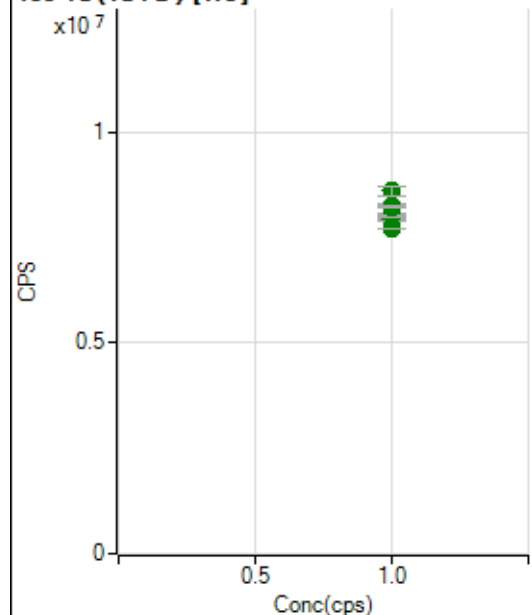
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9383330.18		A	2.6
2	☐	1.000		9634758.29		A	0.5
3	☐	1.000		9359526.74		A	2.5
4	☐	1.000		9311421.05		A	1.9
5	☐	1.000		9582706.45		A	1.0
6	☐	1.000		9136612.43		A	2.6
7	☐	1.000		10004095.04		A	6.2
8	☐	1.000		8636291.11		A	0.9

115 In (ISTD) [He]

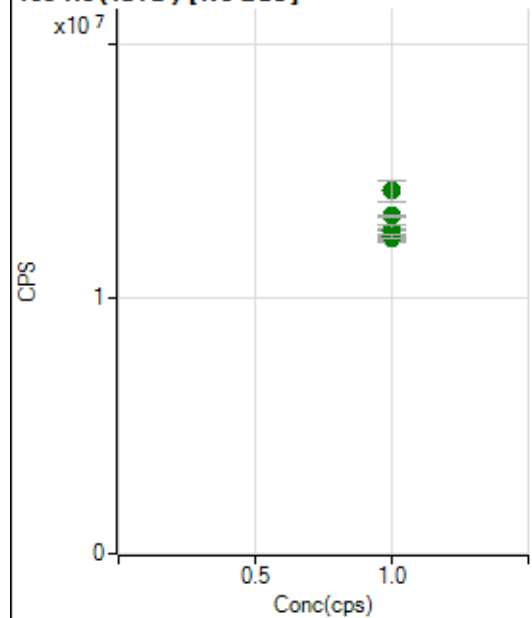
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3458568.07		A	1.0
2	☐	1.000		3467715.20		A	0.8
3	☐	1.000		3368319.75		A	0.0
4	☐	1.000		3333111.61		A	1.2
5	☐	1.000		3389320.45		A	1.3
6	☐	1.000		3334390.57		A	0.9
7	☐	1.000		3414936.67		A	2.9
8	☐	1.000		3092701.54		A	0.4

159 Tb (ISTD) [No Gas]

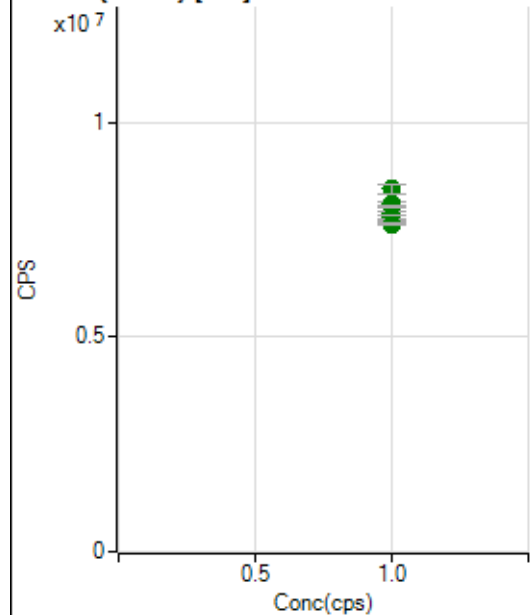
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		12723626.75		A	2.4
2	☐	1.000		13088563.97		A	0.9
3	☐	1.000		12963127.31		A	2.9
4	☐	1.000		13003792.17		A	2.4
5	☐	1.000		13587562.71		A	0.9
6	☐	1.000		13117098.69		A	2.3
7	☐	1.000		14585973.53		A	5.9
8	☐	1.000		12672303.01		A	1.1

159 Tb (ISTD) [He]

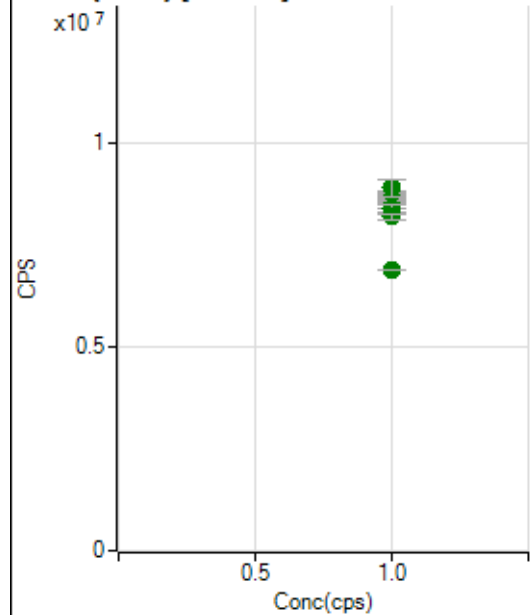
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7911907.87		A	0.4
2	☐	1.000		8025765.37		A	1.0
3	☐	1.000		7939178.35		A	0.9
4	☐	1.000		8010912.80		A	0.7
5	☐	1.000		8256497.24		A	0.5
6	☐	1.000		8217760.15		A	0.5
7	☐	1.000		8604215.91		A	2.8
8	☐	1.000		7715976.14		A	0.2

165 Ho (ISTD) [No Gas]

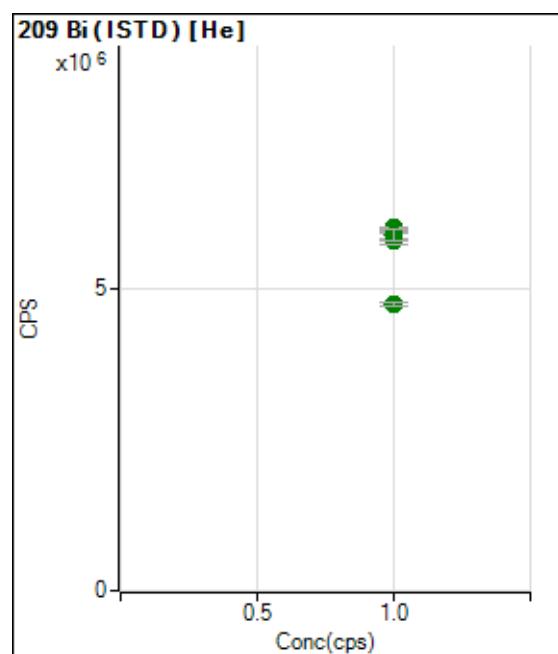
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12336563.15		A	2.0
2	☐	1.000		12684704.26		A	0.7
3	☐	1.000		12471776.90		A	2.8
4	☐	1.000		12533960.65		A	2.9
5	☐	1.000		13238757.72		A	0.7
6	☐	1.000		12660322.59		A	3.3
7	☐	1.000		14225655.48		A	6.0
8	☐	1.000		12438403.98		A	0.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7744559.61		A	0.8
2	☐	1.000		7808261.90		A	0.9
3	☐	1.000		7796976.62		A	0.8
4	☐	1.000		7883211.20		A	0.9
5	☐	1.000		8099525.44		A	1.2
6	☐	1.000		8050597.10		A	0.9
7	☐	1.000		8459434.95		A	2.8
8	☐	1.000		7628453.29		A	0.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8423684.67		A	2.7
2	☐	1.000		8691701.61		A	1.1
3	☐	1.000		8500827.79		A	2.5
4	☐	1.000		8391717.37		A	2.3
5	☐	1.000		8813569.66		A	0.7
6	☐	1.000		8203583.84		A	1.9
7	☐	1.000		8912197.78		A	4.7
8	☐	1.000		6890228.79		A	0.1



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5946127.06		A	0.2
2	☐	1.000		6023554.70		A	0.6
3	☐	1.000		5978579.98		A	0.3
4	☐	1.000		5980494.63		A	1.1
5	☐	1.000		6011442.06		A	1.1
6	☐	1.000		5808296.16		A	1.6
7	☐	1.000		5899279.22		A	3.1
8	☐	1.000		4765254.20		A	1.1

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7031923-MS.b
Acq. Date-Time 2023-03-19 12:39:22
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		16131	161308.45			0.466	5.000
24		167929	1679287.96			0.894	5.000
25		24148	241477.34			0.533	5.000
26		27553	275527.64			0.569	5.000
59		118619	1186185.67			0.447	5.000
113		12760	127603.72			0.613	5.000
115		166905	1669045.52			0.242	5.000
206		41452	414520.52			0.438	5.000
207		37806	378063.21			0.405	5.000
208		89827	898268.59			0.972	5.000
220		0	2.70			81.355	

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

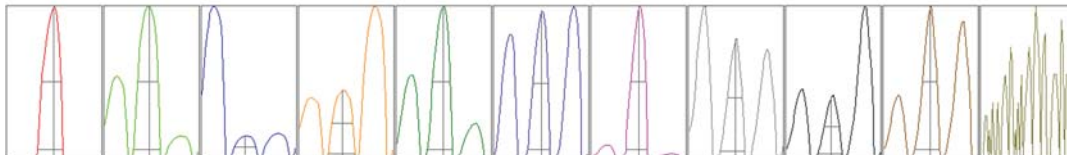
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	16224	16193	16111	16081	16046
24	166583	169329	169739	166655	167337
25	24079	24252	24316	24076	24016
26	27663	27705	27625	27356	27414
59	118142	119237	119116	118479	118119
113	12812	12858	12768	12688	12677
115	167054	167339	167176	166449	166504
206	41655	41627	41279	41283	41417
207	37928	37962	37846	37608	37688
208	89099	90533	90731	90024	88748

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	28309.42	9.00	8.90 - 9.10	
24	272901.93	23.95	23.90 - 24.10	
25	37227.56	24.90	24.90 - 25.10	
26	42246.38	25.90	25.90 - 26.10	
59	223389.48	59.00	58.90 - 59.10	
113	27586.35	113.05	112.90 - 113.10	
115	357471.63	115.05	114.90 - 115.10	
206	88534.83	206.00	205.90 - 206.10	
207	77636.86	206.95	206.90 - 207.10	
208	196062.59	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.789	0.900	
24	0.65	0.838	0.900	
25	0.67	0.830	0.900	
26	0.68	0.836	0.900	
59	0.55	0.792	0.900	
113	0.47	0.708	0.900	
115	0.48	0.689	0.900	
206	0.47	0.774	0.900	
207	0.49	0.770	0.900	
208	0.46	0.790	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 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	9.2 V	Deflect	15.6 V
Extract 2	-125.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-75 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	190 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0003	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	1.2 mm
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EM

Discriminator	3.1 mV	Analog HV	2255 V	Pulse HV	1483 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		41075	410753.50			0.451	
89		73241	732414.00			0.892	
205		33388	333876.14			0.487	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	40779	41138	41044	41136	41279
89	72752	72996	73522	74252	72685
205	33292	33658	33285	33423	33280

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 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	8.8 V	Deflect	2.8 V
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US EPA Tune Check Report

Extract 2	-115.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-65 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	190 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0003	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	-0.9 mm	Torch V	1.2 mm
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EM

Discriminator	3.1 mV	Analog HV	2255 V	Pulse HV	1483 V
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