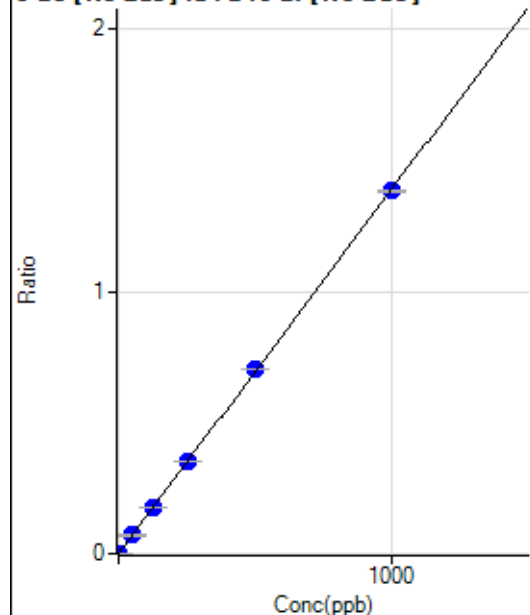


Batch Folder: D:\ICP-MS Data\P7100917 -MS.b\
Analysis File: P7100917 -MS.batch.bin
DA Date-Time: 2017-10-10 09:49:11
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2017-10-09 15:58:40
2			
3	005CALS.d	S02	2017-10-09 16:06:05
4	006CALS.d	S03	2017-10-09 16:09:56
5	007CALS.d	S04	2017-10-09 16:13:47
6	008CALS.d	S05	2017-10-09 16:17:39
7	009CALS.d	S06	2017-10-09 16:21:28
8	010CALS.d	S07	2017-10-09 16:25:16
9	011CALS.d	S08	2017-10-09 16:28:59

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	49.6
2	☐	0.100					
3	☐	1.000	0.854	375.94	0.0012	P	16.8
4	☐	50.000	50.463	21398.92	0.0702	P	1.6
5	☐	125.000	125.791	53078.99	0.1748	P	1.0
6	☐	250.000	252.022	104713.93	0.3502	P	0.2
7	☐	500.000	506.169	209101.23	0.7034	P	0.1
8	☐	1000.000	996.288	403963.93	1.3844	P	0.4
9	☐			61.11	0.0002	P	15.4

$$y = 0.0014 * x + 3.6299E-005$$

$$R = 1.0000$$

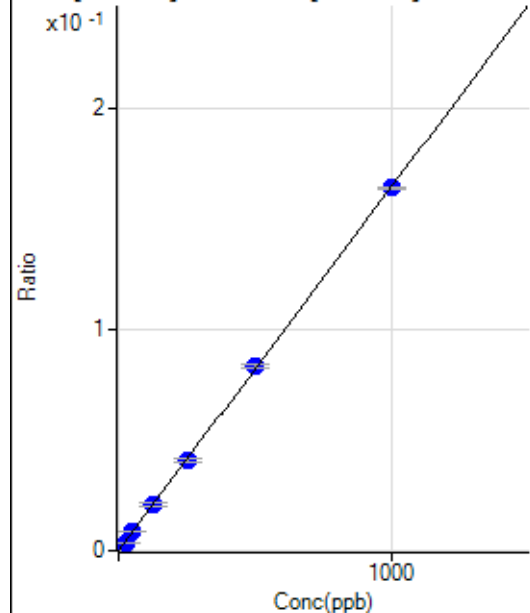
$$DL = 0.03888$$

$$BEC = 0.02612$$

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	13.89	0.0000	P	34.5
2	☐	2.500					
3	☐	25.000	20.921	1075.08	0.0035	P	7.1
4	☐	50.000	53.325	2694.82	0.0088	P	4.3
5	☐	125.000	126.174	6326.56	0.0208	P	8.6
6	☐	250.000	245.754	12124.80	0.0406	P	4.3
7	☐	500.000	507.271	24871.42	0.0837	P	2.2
8	☐	1000.000	997.215	47974.50	0.1644	P	0.6
9	☐			805.62	0.0029	P	17.0

$$y = 1.6482E-004 * x + 4.5408E-005$$

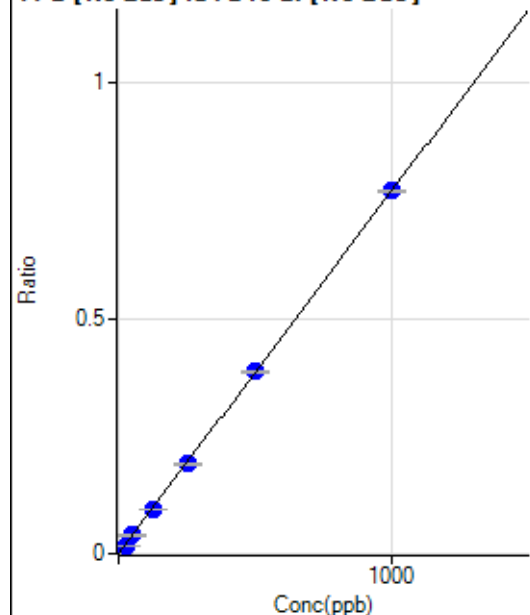
$$R = 0.9999$$

$$DL = 0.2854$$

$$BEC = 0.2755$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	119.45	0.0004	P	21.7
2	☐	2.500					
3	☐	25.000	20.693	5023.26	0.0163	P	7.7
4	☐	50.000	50.343	11946.81	0.0392	P	1.8
5	☐	125.000	121.729	28586.25	0.0942	P	1.3
6	☐	250.000	247.686	57153.59	0.1912	P	1.3
7	☐	500.000	501.003	114831.41	0.3863	P	0.9
8	☐	1000.000	1000.576	224995.72	0.7711	P	0.7
9	☐			3695.06	0.0134	P	8.8

$$y = 7.7024\text{E-}004 * x + 3.9090\text{E-}004$$

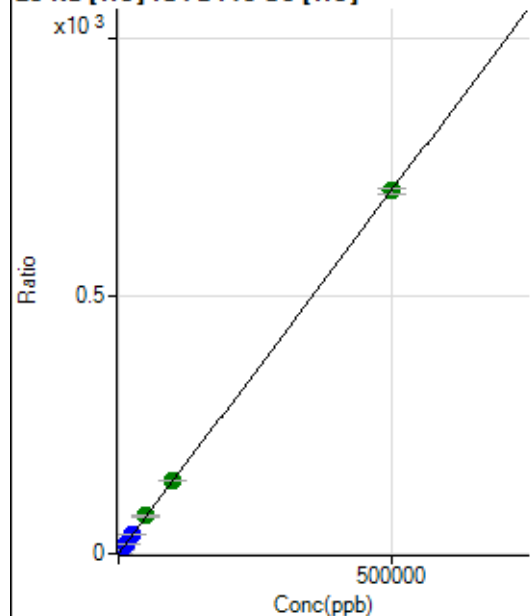
$$R = 1.0000$$

$$DL = 0.3301$$

$$BEC = 0.5075$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	7382.69	0.1341	P	4.8
2	☐	50.000					
3	☐	500.000	481.587	44951.74	0.8138	P	1.3
4	☐	5000.000	5396.932	432608.22	7.7518	P	0.8
5	☐	12500.000	13326.260	1084341.11	18.9440	P	1.0
6	☐	25000.000	26249.990	2183029.89	37.1858	P	0.5
7	☐	50000.000	51691.023	4426737.17	73.0956	A	1.2
8	☐	100000.00	100796.69	8683306.10	142.4079	A	0.2
9	☐	500000.00	499584.45	44311478.42	705.2940	A	1.4

$$y = 0.0014 * x + 0.1341$$

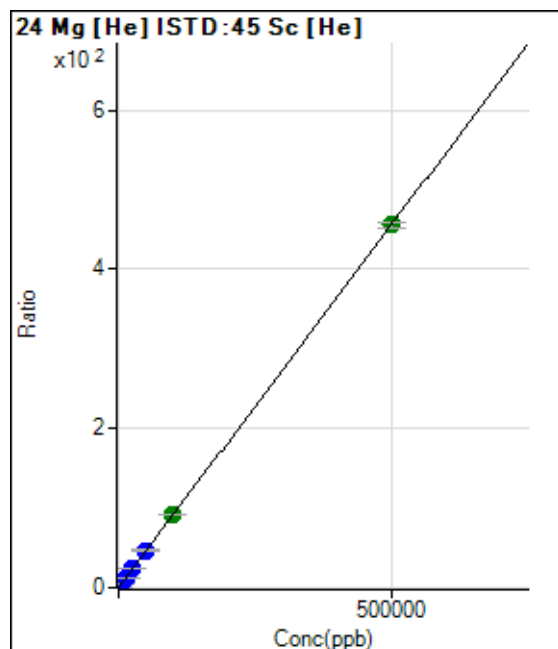
$$R = 1.0000$$

$$DL = 13.7$$

$$BEC = 94.99$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0009	P	33.0
2	☐	50.000					
3	☐	500.000	484.888	24473.56	0.4431	P	2.7
4	☐	5000.000	5377.645	273781.89	4.9055	P	0.4
5	☐	12500.000	13228.181	690632.98	12.0655	P	0.3
6	☐	25000.000	26050.684	1394883.72	23.7601	P	0.3
7	☐	50000.000	51394.905	2838850.82	46.8751	P	1.0
8	☐	100000.00	100075.22	5565399.78	91.2734	A	0.1
9	☐	500000.00	499770.96	28637252.38	455.8116	A	1.4

$$y = 9.1204\text{E-}004 * x + 9.0749\text{E-}004$$

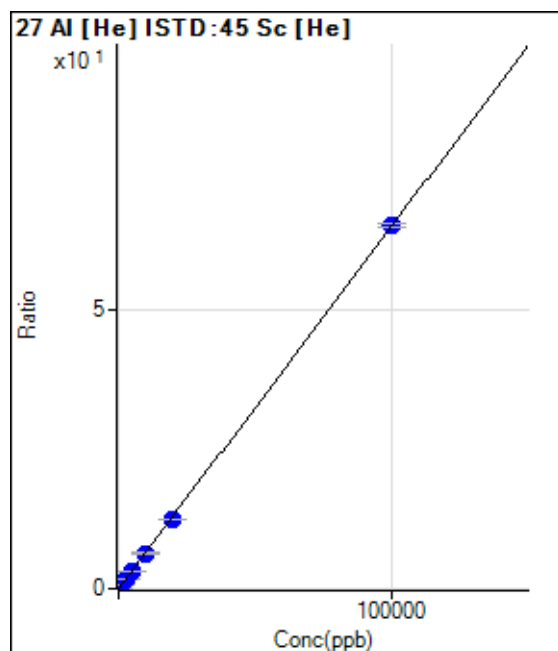
$$R = 1.0000$$

$$DL = 0.9859$$

$$BEC = 0.995$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0005	P	75.3
2	☐	2.000					
3	☐	20.000	19.251	716.72	0.0130	P	10.6
4	☐	1000.000	998.087	36086.13	0.6465	P	1.8
5	☐	2500.000	2504.967	92829.10	1.6219	P	1.7
6	☐	5000.000	4909.935	186597.46	3.1785	P	1.0
7	☐	10000.000	9787.055	383703.88	6.3353	P	1.1
8	☐	20000.000	19270.641	760575.88	12.4737	P	0.9
9	☐	100000.00	100171.56	4073659.86	64.8380	P	1.0

$$y = 6.4726\text{E-}004 * x + 5.0347\text{E-}004$$

$$R = 1.0000$$

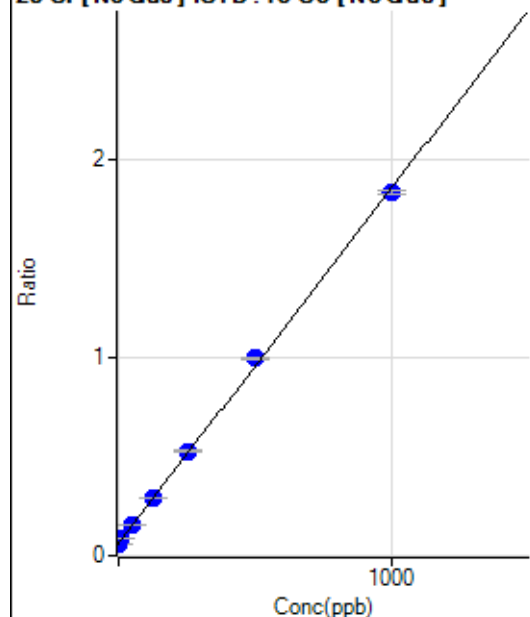
$$DL = 1.757$$

$$BEC = 0.7778$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	39102.25	0.0618	P	2.3
2	☐	1.000					
3	☐	10.000	12.444	52866.81	0.0841	P	0.5
4	☐	50.000	50.287	97290.83	0.1519	P	0.2
5	☐	125.000	127.780	190305.54	0.2908	P	0.2
6	☐	250.000	259.647	346738.16	0.5270	P	1.0
7	☐	500.000	520.804	669888.26	0.9949	P	1.3
8	☐	1000.000	986.800	1217813.89	1.8298	P	1.1
9	☐			77604.61	0.1189	P	0.7

$$y = 0.0018 * x + 0.0618$$

$$R = 0.9996$$

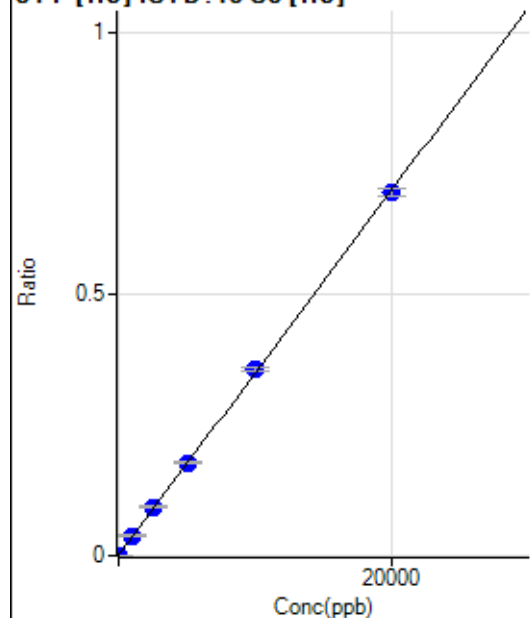
$$DL = 2.367$$

$$BEC = 34.5$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	5.042	44.44	0.0008	P	75.6
2	☐	0.000					
3	☐	0.000	-5.042	25.00	0.0005	P	67.7
4	☐	1000.000	1057.780	2094.69	0.0376	P	11.5
5	☐	2500.000	2655.998	5345.62	0.0934	P	1.9
6	☐	5000.000	5065.839	10423.48	0.1775	P	2.7
7	☐	10000.000	10197.686	21608.07	0.3567	P	1.5
8	☐	20000.000	19862.308	42330.37	0.6942	P	1.9
9	☐			36.11	0.0006	P	35.2

$$y = 3.4921E-005 * x + 6.3125E-004$$

$$R = 0.9999$$

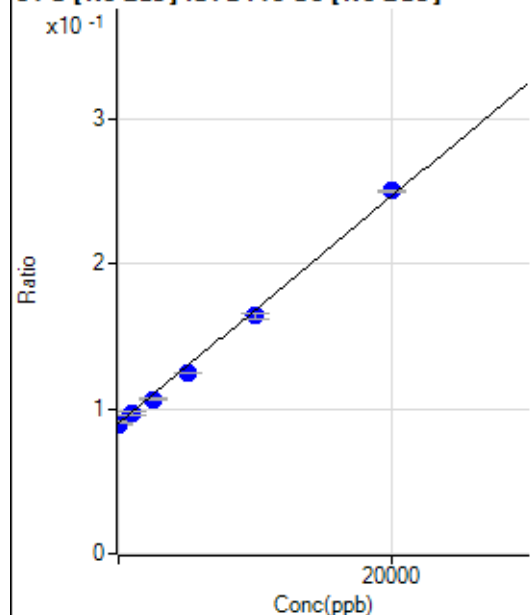
$$DL = 39.46$$

$$BEC = 18.08$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-74.904	56603.19	0.0895	P	1.6
2	☐	0.000					
3	☐	0.000	74.904	56979.49	0.0907	P	1.9
4	☐	1000.000	853.442	61957.51	0.0968	P	2.8
5	☐	2500.000	2125.391	69842.21	0.1067	P	1.2
6	☐	5000.000	4460.853	82243.95	0.1250	P	0.5
7	☐	10000.000	9456.610	110497.91	0.1641	P	2.4
8	☐	20000.000	20460.636	166594.44	0.2503	P	0.2
9	☐			58638.71	0.0899	P	0.4

$$y = 7.8315E-006 * x + 0.0901$$

$$R = 0.9990$$

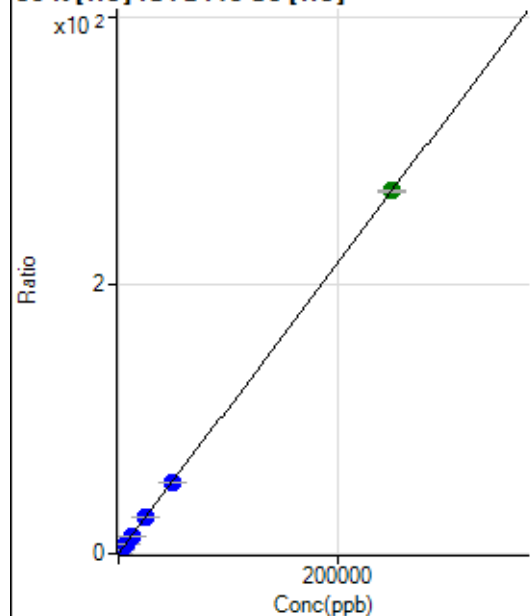
$$DL = 599.2$$

$$BEC = 1.15E+04$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10718.21	0.1947	P	1.7
2	☐	50.000					
3	☐	500.000	452.132	37707.21	0.6828	P	1.5
4	☐	2500.000	2525.277	162988.78	2.9207	P	1.3
5	☐	6250.000	6305.421	400732.15	7.0014	P	1.3
6	☐	12500.000	12395.201	796967.48	13.5753	P	0.5
7	☐	25000.000	24751.815	1630012.76	26.9142	P	0.9
8	☐	50000.000	48377.804	3196209.45	52.4184	P	0.3
9	☐	250000.00	250352.95	16992074.34	270.4503	A	0.8

$$y = 0.0011 * x + 0.1947$$

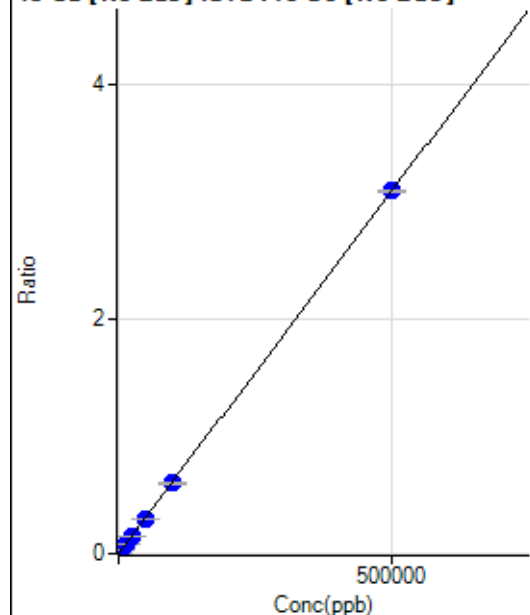
$$R = 1.0000$$

$$DL = 8.977$$

$$BEC = 180.3$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.45	0.0001	P	65.6
2	☐	50.000					
3	☐	500.000	450.438	1794.63	0.0029	P	2.8
4	☐	5000.000	5002.971	19855.92	0.0310	P	0.8
5	☐	12500.000	12257.315	49642.96	0.0759	P	2.8
6	☐	25000.000	24369.560	99178.47	0.1507	P	0.8
7	☐	50000.000	48423.087	201652.10	0.2995	P	1.0
8	☐	100000.00	96967.749	399065.18	0.5996	P	0.8
9	☐	500000.00	500801.75	2020452.65	3.0964	P	0.7

$$y = 6.1828\text{E-}006 * x + 7.0219\text{E-}005$$

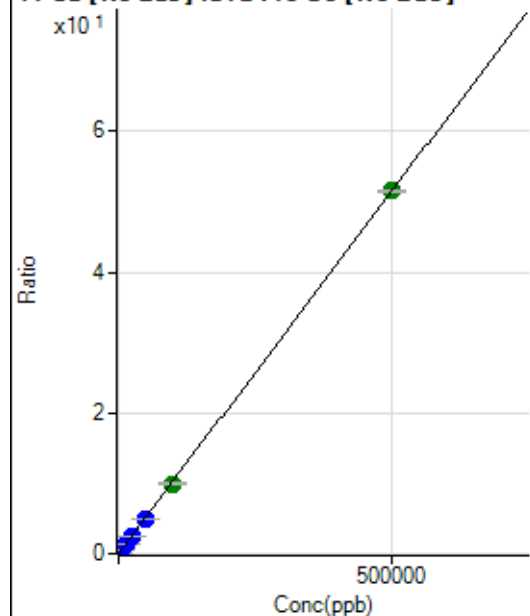
$$R = 1.0000$$

$$DL = 22.35$$

$$BEC = 11.36$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2600.35	0.0041	P	7.5
2	☐	50.000					
3	☐	500.000	435.375	30727.42	0.0489	P	1.6
4	☐	5000.000	4926.187	327094.22	0.5107	P	0.6
5	☐	12500.000	12150.065	820510.13	1.2536	P	1.0
6	☐	25000.000	24398.080	1653560.11	2.5133	P	0.7
7	☐	50000.000	48481.575	3360132.93	4.9900	P	0.7
8	☐	100000.00	96574.600	6612875.10	9.9360	A	1.0
9	☐	500000.00	500876.57	33614814.29	51.5151	A	0.8

$$y = 1.0284\text{E-}004 * x + 0.0041$$

$$R = 1.0000$$

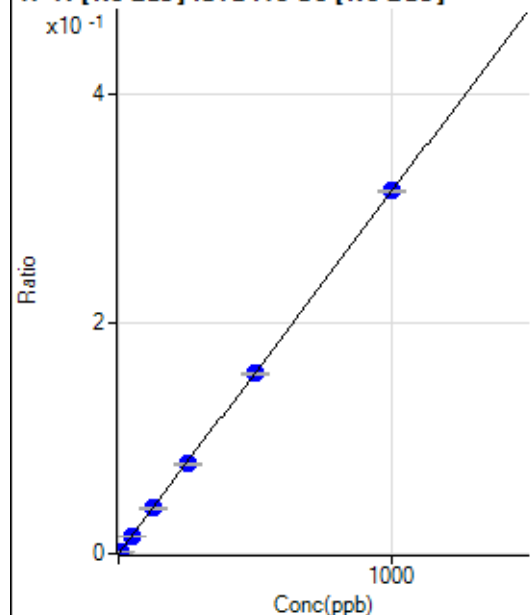
$$DL = 8.96$$

$$BEC = 39.96$$

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	8.33	0.0000	P	0.4
2	☐	0.500					
3	☐	5.000	4.395	877.85	0.0014	P	15.7
4	☐	50.000	49.794	10042.76	0.0157	P	1.7
5	☐	125.000	125.264	25804.07	0.0394	P	3.2
6	☐	250.000	248.951	51549.71	0.0784	P	2.0
7	☐	500.000	496.836	105282.15	0.1564	P	0.7
8	☐	1000.000	1001.824	209828.61	0.3153	P	0.3
9	☐			213.90	0.0003	P	15.1

$$y = 3.1467E-004 * x + 1.3168E-005$$

$$R = 1.0000$$

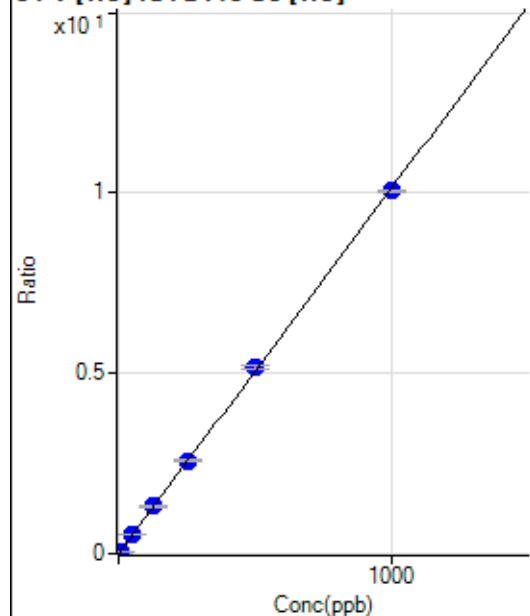
$$DL = 0.0005102$$

$$BEC = 0.04185$$

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	7.78	0.0001	P	65.9
2	☐	0.500					
3	☐	5.000	4.624	2592.50	0.0470	P	5.1
4	☐	50.000	51.838	29301.52	0.5250	P	0.6
5	☐	125.000	129.051	74798.65	1.3068	P	0.5
6	☐	250.000	254.988	151575.05	2.5819	P	0.4
7	☐	500.000	510.372	312952.87	5.1676	P	1.3
8	☐	1000.000	992.970	613033.37	10.0539	P	0.6
9	☐			150.00	0.0024	P	15.4

$$y = 0.0101 * x + 1.4152E-004$$

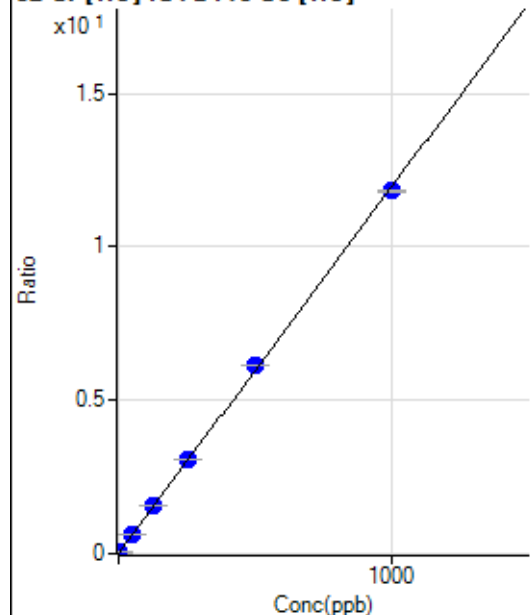
$$R = 0.9999$$

$$DL = 0.02765$$

$$BEC = 0.01398$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	426.68	0.0077	P	12.1
2	☐	0.200					
3	☐	2.000	2.105	1815.70	0.0329	P	3.7
4	☐	50.000	52.993	35734.60	0.6404	P	1.3
5	☐	125.000	131.020	89968.15	1.5718	P	0.7
6	☐	250.000	258.633	181709.05	3.0952	P	0.1
7	☐	500.000	514.316	372309.11	6.1474	P	0.5
8	☐	1000.000	989.781	720923.86	11.8232	P	0.2
9	☐			11258.91	0.1792	P	2.9

$$y = 0.0119 * x + 0.0077$$

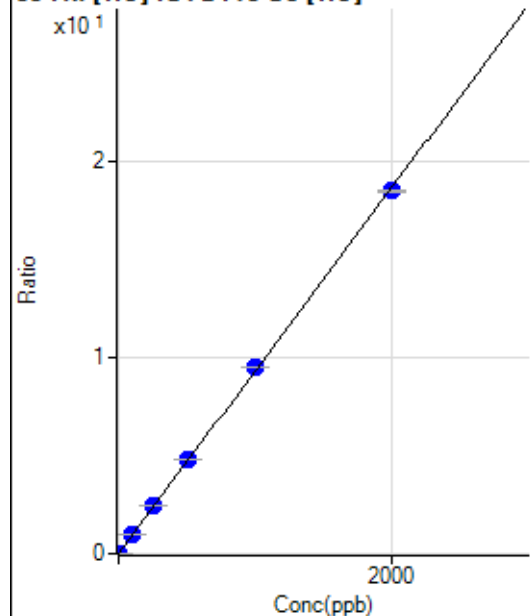
$$R = 0.9998$$

$$DL = 0.2351$$

$$BEC = 0.649$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	42.22	0.0008	P	40.2
2	☐	0.100					
3	☐	1.000	0.930	521.13	0.0094	P	6.7
4	☐	100.000	104.257	54322.26	0.9734	P	1.8
5	☐	250.000	261.130	139483.91	2.4369	P	0.8
6	☐	500.000	516.107	282708.44	4.8157	P	0.9
7	☐	1000.000	1020.377	576578.69	9.5202	P	0.5
8	☐	2000.000	1984.181	1128748.35	18.5118	P	0.4
9	☐			5175.43	0.0824	P	0.4

$$y = 0.0093 * x + 7.6789E-004$$

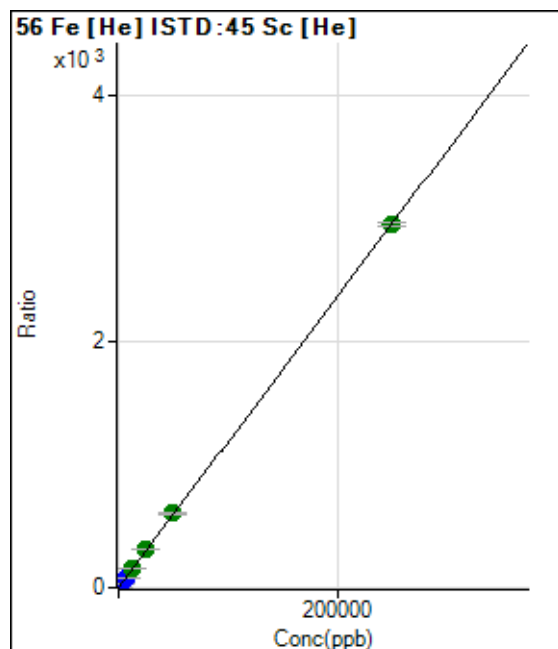
$$R = 0.9999$$

$$DL = 0.09929$$

$$BEC = 0.08231$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1326.03	0.0241	P	9.0
2	☐	5.000					
3	☐	50.000	50.010	33915.56	0.6140	P	0.8
4	☐	2500.000	2764.112	182089.34	32.6290	P	1.0
5	☐	6250.000	6798.228	459133.03	80.2147	P	0.9
6	☐	12500.000	13302.700	921338.81	156.9402	A	0.4
7	☐	25000.000	26263.256	18763102.73	309.8204	A	1.1
8	☐	50000.000	50969.157	36661091.09	601.2464	A	0.2
9	☐	250000.00	249623.36	184999793.0	2,944.532	A	1.0

$$y = 0.0118 * x + 0.0241$$

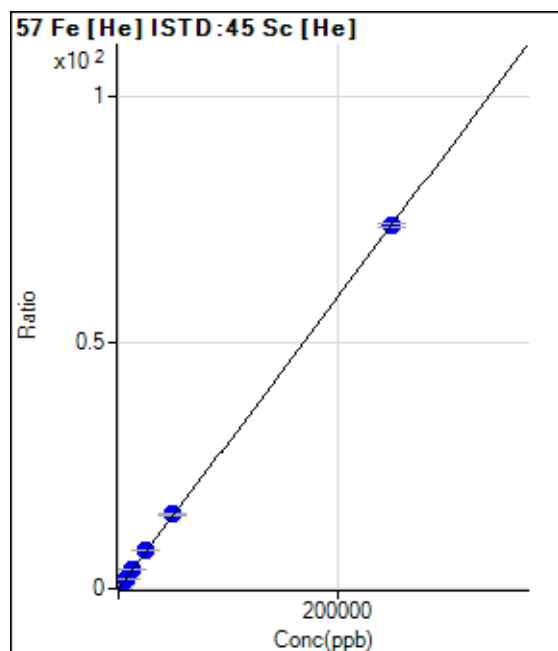
$$R = 1.0000$$

$$DL = 0.5505$$

$$BEC = 2.041$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0012	P	36.6
2	☐	5.000					
3	☐	50.000	48.824	863.02	0.0156	P	4.0
4	☐	2500.000	2739.562	45183.00	0.8096	P	1.0
5	☐	6250.000	6785.859	114681.76	2.0036	P	1.4
6	☐	12500.000	13383.551	231920.92	3.9505	P	0.4
7	☐	25000.000	26456.432	472869.63	7.8081	P	1.2
8	☐	50000.000	51110.922	919691.65	15.0833	P	0.8
9	☐	250000.00	249572.20	4627082.11	73.6462	P	0.9

$$y = 2.9508E-004 * x + 0.0012$$

$$R = 1.0000$$

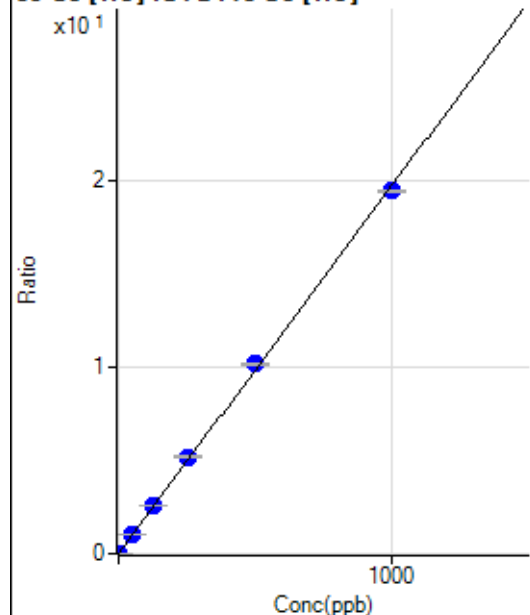
$$DL = 4.509$$

$$BEC = 4.107$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0006	P	36.4
2	☐	0.100					
3	☐	1.000	0.938	1055.61	0.0191	P	5.0
4	☐	50.000	54.322	59852.70	1.0725	P	0.9
5	☐	125.000	132.701	149913.21	2.6191	P	1.0
6	☐	250.000	263.765	305584.42	5.2054	P	0.9
7	☐	500.000	516.778	617604.52	10.1980	P	1.1
8	☐	1000.000	986.991	1187570.48	19.4765	P	0.6
9	☐			1541.22	0.0245	P	5.6

$$y = 0.0197 * x + 6.0603E-004$$

$$R = 0.9997$$

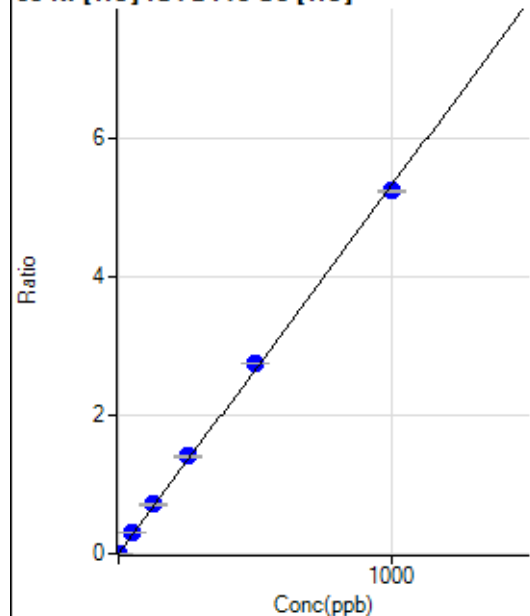
$$DL = 0.03354$$

$$BEC = 0.03071$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	17.78	0.0003	P	21.8
2	☐	0.100					
3	☐	1.000	1.124	347.79	0.0063	P	3.2
4	☐	50.000	55.812	16560.65	0.2968	P	0.9
5	☐	125.000	133.443	40587.28	0.7091	P	1.2
6	☐	250.000	264.032	82345.12	1.4026	P	0.2
7	☐	500.000	518.234	166715.40	2.7527	P	0.5
8	☐	1000.000	986.029	319344.28	5.2373	P	0.2
9	☐			3262.63	0.0519	P	2.6

$$y = 0.0053 * x + 3.2299E-004$$

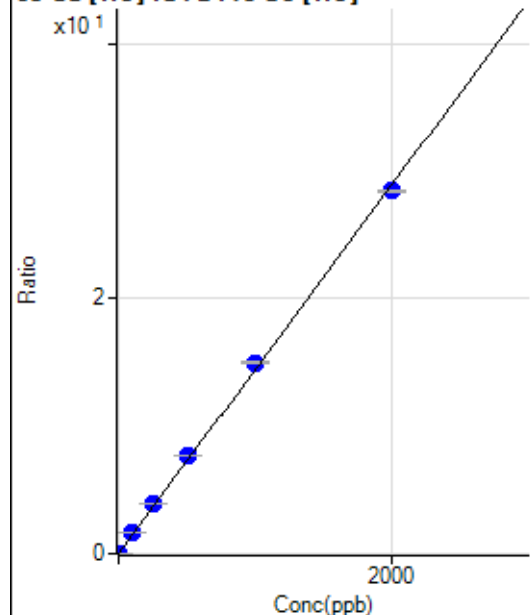
$$R = 0.9996$$

$$DL = 0.03982$$

$$BEC = 0.06081$$

Weight: <None>

Min Conc: 0

⁶³Cu [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	141.11	0.0026	P	23.1
2	☐	0.200					
3	☐	2.000	2.129	1841.26	0.0333	P	0.8
4	☐	100.000	110.606	89362.99	1.6014	P	1.5
5	☐	250.000	271.636	224891.66	3.9291	P	1.1
6	☐	500.000	533.231	452657.45	7.7105	P	0.3
7	☐	1000.000	1037.617	908518.80	15.0015	P	1.0
8	☐	2000.000	1969.649	1736202.20	28.4742	P	0.6
9	☐			2324.67	0.0370	P	0.6

$$y = 0.0145 * x + 0.0026$$

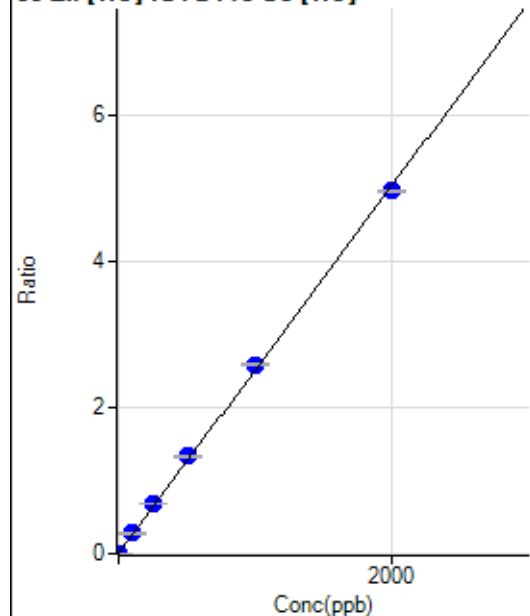
$$R = 0.9996$$

$$DL = 0.123$$

$$BEC = 0.1774$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD:45 Sc [He]

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	147.78	0.0027	P	7.9
2	☐	0.200					
3	☐	2.000	2.302	467.79	0.0085	P	3.2
4	☐	100.000	108.995	15436.12	0.2766	P	2.0
5	☐	250.000	267.290	38606.62	0.6745	P	0.1
6	☐	500.000	529.481	78284.10	1.3334	P	0.9
7	☐	1000.000	1030.032	156944.78	2.5915	P	0.9
8	☐	2000.000	1975.002	302835.63	4.9665	P	0.5
9	☐			817.82	0.0130	P	1.9

$$y = 0.0025 * x + 0.0027$$

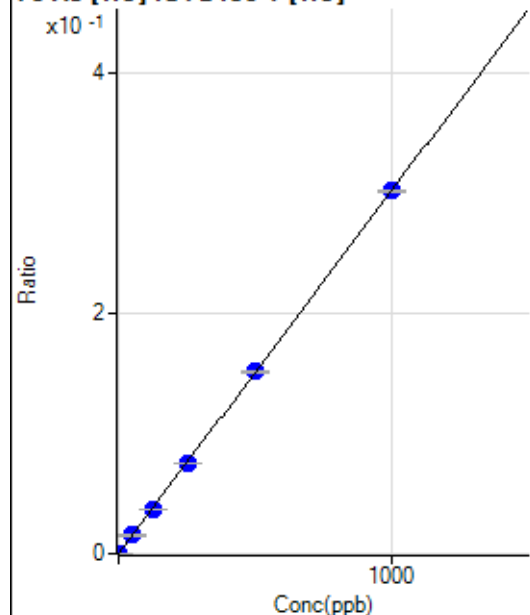
$$R = 0.9997$$

$$DL = 0.2542$$

$$BEC = 1.068$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1.85	0.0000	P	0.1
2	☐	0.100					
3	☐	1.000	0.871	97.53	0.0003	P	8.0
4	☐	50.000	50.377	5644.35	0.0152	P	3.5
5	☐	125.000	123.517	14213.19	0.0373	P	0.6
6	☐	250.000	248.507	28906.51	0.0751	P	0.5
7	☐	500.000	501.244	60112.43	0.1515	P	0.4
8	☐	1000.000	999.918	117579.64	0.3022	P	0.8
9	☐			72.84	0.0002	P	18.7

$$y = 3.0221\text{E-}004 * x + 5.0741\text{E-}006$$

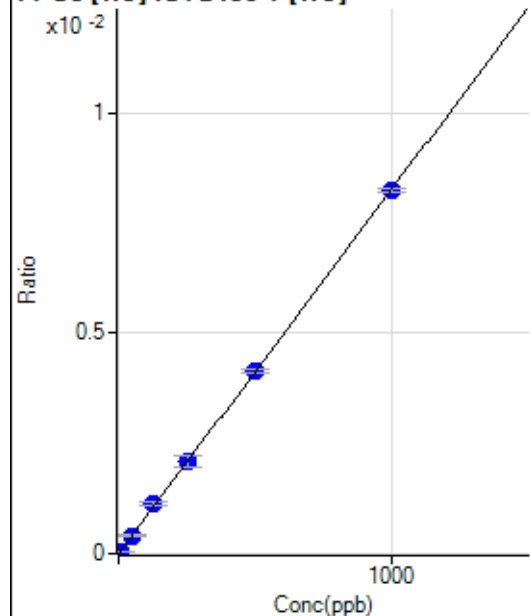
$$R = 1.0000$$

$$DL = 3.417\text{E-}05$$

$$BEC = 0.01679$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	0.500					
3	☐	5.000	4.811	14.45	0.0000	P	48.1
4	☐	50.000	50.081	153.34	0.0004	P	10.6
5	☐	125.000	137.768	433.35	0.0011	P	4.8
6	☐	250.000	252.095	801.15	0.0021	P	12.4
7	☐	500.000	503.049	1649.01	0.0042	P	1.7
8	☐	1000.000	996.353	3202.63	0.0082	P	1.2
9	☐			1.11	0.0000	P	173.

$$y = 8.2614\text{E-}006 * x + 0.0000\text{E+}000$$

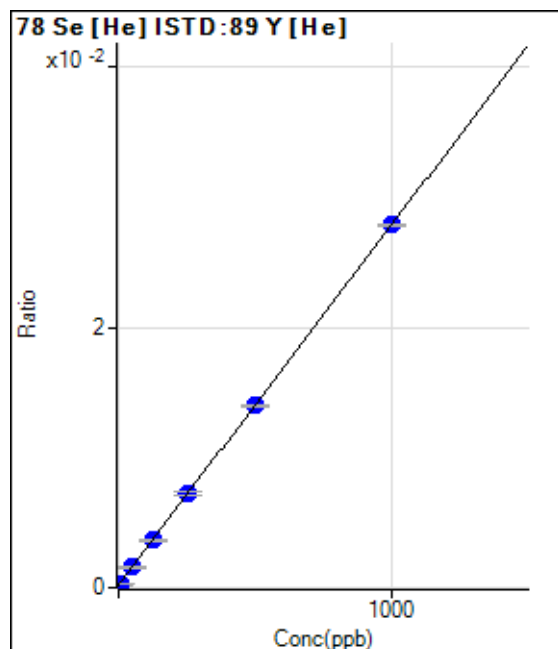
$$R = 0.9999$$

$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	72.22	0.0002	P	14.3
2	☐	0.500					
3	☐	5.000	3.764	109.88	0.0003	P	7.6
4	☐	50.000	49.964	585.82	0.0016	P	5.2
5	☐	125.000	124.058	1383.41	0.0036	P	2.0
6	☐	250.000	255.084	2794.74	0.0073	P	2.8
7	☐	500.000	497.968	5551.11	0.0140	P	1.5
8	☐	1000.000	999.871	10850.41	0.0279	P	0.9
9	☐			137.04	0.0003	P	9.2

$$y = 2.7692\text{E-}005 * x + 1.9809\text{E-}004$$

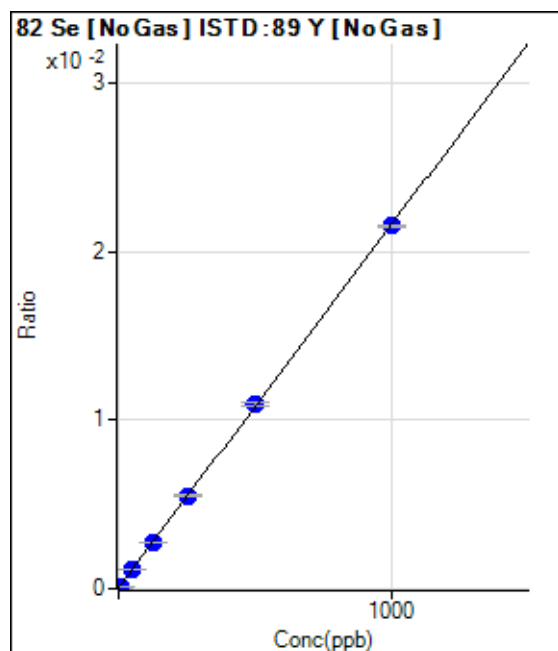
$$R = 1.0000$$

$$DL = 3.06$$

$$BEC = 7.153$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	49.92	0.0000	P	27.8
2	☐	0.500					
3	☐	5.000	3.834	131.36	0.0001	P	17.4
4	☐	50.000	50.449	1154.75	0.0011	P	5.6
5	☐	125.000	125.139	2849.90	0.0027	P	1.9
6	☐	250.000	254.326	5750.72	0.0055	P	2.6
7	☐	500.000	505.101	11547.16	0.0109	P	2.6
8	☐	1000.000	996.334	22325.95	0.0215	P	0.5
9	☐			47.86	0.0000	P	52.1

$$y = 2.1540\text{E-}005 * x + 4.9520\text{E-}005$$

$$R = 1.0000$$

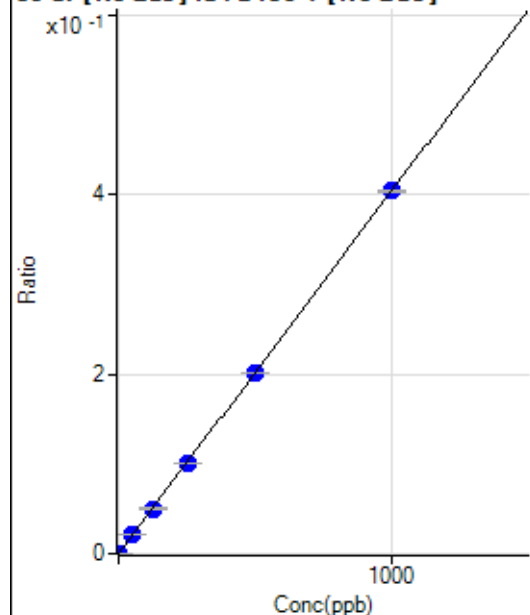
$$DL = 1.916$$

$$BEC = 2.299$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	116.67	0.0001	P	7.1
2	☐	0.100					
3	☐	1.000	0.814	441.69	0.0004	P	10.7
4	☐	50.000	51.394	21180.38	0.0208	P	2.8
5	☐	125.000	124.327	52165.79	0.0502	P	1.8
6	☐	250.000	249.474	104777.37	0.1007	P	0.6
7	☐	500.000	498.995	212731.84	0.2013	P	0.8
8	☐	1000.000	1000.649	418887.65	0.4036	P	0.6
9	☐			14271.59	0.0146	P	1.4

$$y = 4.0322\text{E-}004 * x + 1.1574\text{E-}004$$

$$R = 1.0000$$

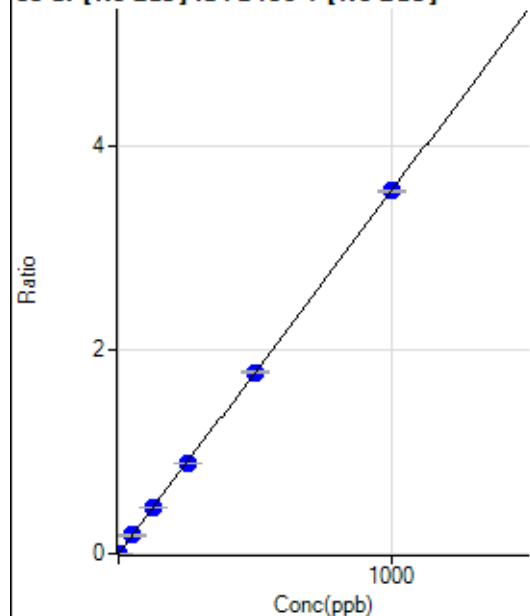
$$DL = 0.06122$$

$$BEC = 0.287$$

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	72.23	0.0001	P	48.1
2	☐	0.100					
3	☐	1.000	0.937	3386.66	0.0034	P	3.3
4	☐	50.000	50.374	182084.81	0.1792	P	0.7
5	☐	125.000	125.624	463753.35	0.4467	P	0.3
6	☐	250.000	249.796	924014.40	0.8881	P	0.1
7	☐	500.000	499.992	1878310.52	1.7776	P	0.9
8	☐	1000.000	999.958	3689760.19	3.5550	P	0.2
9	☐			122515.42	0.1253	P	0.3

$$y = 0.0036 * x + 7.1672\text{E-}005$$

$$R = 1.0000$$

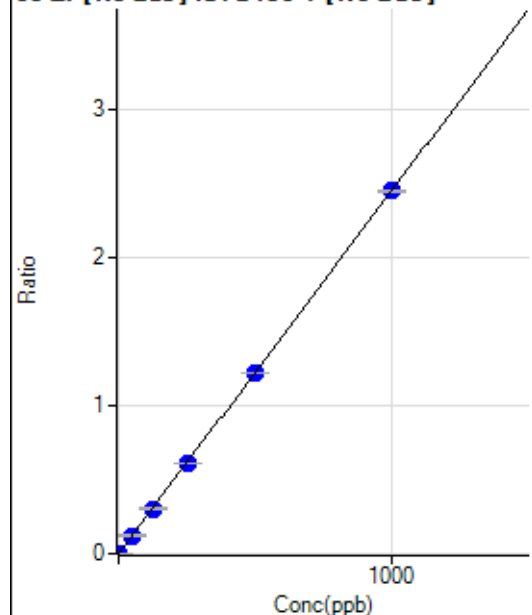
$$DL = 0.02909$$

$$BEC = 0.02016$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.00	0.0001	P	16.6
2	☐	0.100					
3	☐	1.000	0.864	2208.61	0.0022	P	3.2
4	☐	50.000	50.181	125189.47	0.1232	P	0.8
5	☐	125.000	124.347	316721.24	0.3051	P	1.1
6	☐	250.000	249.901	637758.55	0.6130	P	0.4
7	☐	500.000	499.637	1294963.28	1.2255	P	0.4
8	☐	1000.000	1000.279	2546301.88	2.4533	P	0.4
9	☐			544.48	0.0006	P	21.2

$$y = 0.0025 * x + 9.9203E-005$$

$$R = 1.0000$$

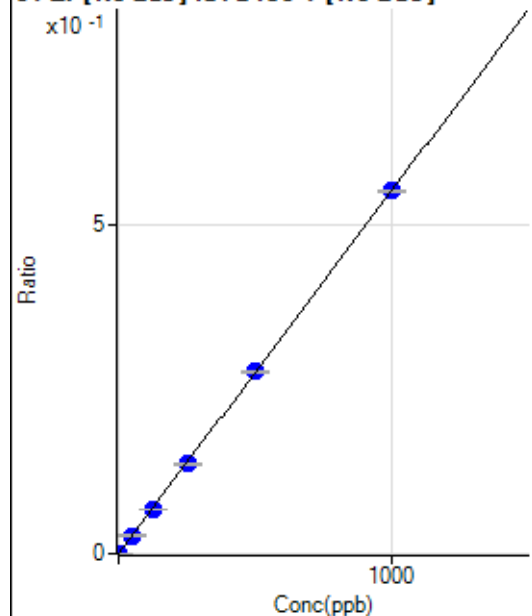
$$DL = 0.02019$$

$$BEC = 0.04045$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22.22	0.0000	P	43.2
2	☐	0.100					
3	☐	1.000	0.848	488.92	0.0005	P	24.4
4	☐	50.000	49.610	27869.92	0.0274	P	3.3
5	☐	125.000	124.042	71148.33	0.0685	P	0.4
6	☐	250.000	247.153	142036.57	0.1365	P	0.8
7	☐	500.000	501.505	292697.23	0.2770	P	0.7
8	☐	1000.000	1000.099	573300.31	0.5524	P	0.3
9	☐			172.23	0.0002	P	31.4

$$y = 5.5229E-004 * x + 2.2041E-005$$

$$R = 1.0000$$

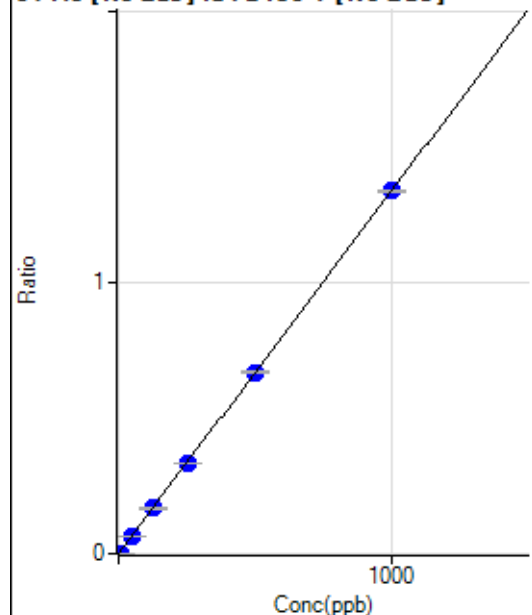
$$DL = 0.05171$$

$$BEC = 0.03991$$

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	47.22	0.0000	P	66.8
2	☐	0.500					
3	☐	5.000	1.929	2619.80	0.0026	P	6.1
4	☐	50.000	49.392	67282.10	0.0662	P	0.7
5	☐	125.000	125.059	173940.95	0.1675	P	0.8
6	☐	250.000	248.584	346426.57	0.3330	P	0.7
7	☐	500.000	500.365	708158.40	0.6702	P	1.1
8	☐	1000.000	1000.210	1390417.22	1.3396	P	0.6
9	☐			1525.15	0.0016	P	6.4

$$y = 0.0013 * x + 4.6851E-005$$

$$R = 1.0000$$

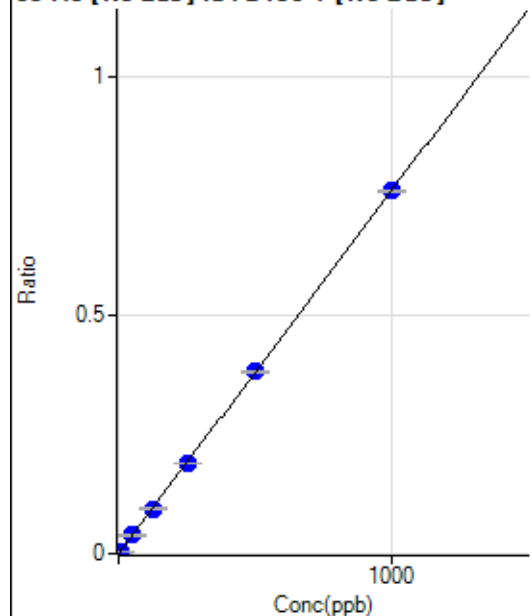
$$DL = 0.07013$$

$$BEC = 0.03498$$

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	16.66	0.0000	P	86.5
2	☐	0.500					
3	☐	5.000	4.577	3483.90	0.0035	P	2.7
4	☐	50.000	50.316	38918.29	0.0383	P	1.4
5	☐	125.000	124.296	98178.53	0.0946	P	1.8
6	☐	250.000	248.179	196426.11	0.1888	P	0.7
7	☐	500.000	501.909	403448.91	0.3818	P	0.8
8	☐	1000.000	999.575	789193.52	0.7604	P	0.7
9	☐			2350.29	0.0024	P	2.0

$$y = 7.6068E-004 * x + 1.6523E-005$$

$$R = 1.0000$$

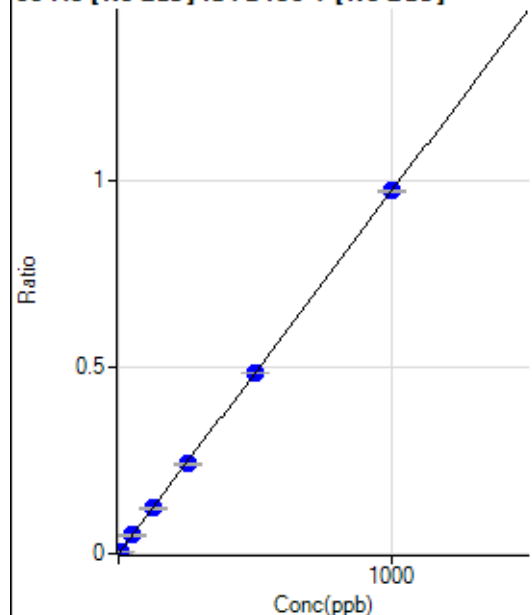
$$DL = 0.05639$$

$$BEC = 0.02172$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0000	P	25.0
2	☐	0.500					
3	☐	5.000	3.849	3756.25	0.0038	P	7.2
4	☐	50.000	50.634	50008.82	0.0492	P	1.7
5	☐	125.000	124.948	125996.96	0.1214	P	0.6
6	☐	250.000	247.729	250297.06	0.2406	P	1.0
7	☐	500.000	498.900	511919.56	0.4845	P	0.9
8	☐	1000.000	1001.098	1008953.13	0.9721	P	0.5
9	☐			3117.18	0.0032	P	4.5

$$y = 9.7101\text{E-}004 * x + 3.3066\text{E-}005$$

$$R = 1.0000$$

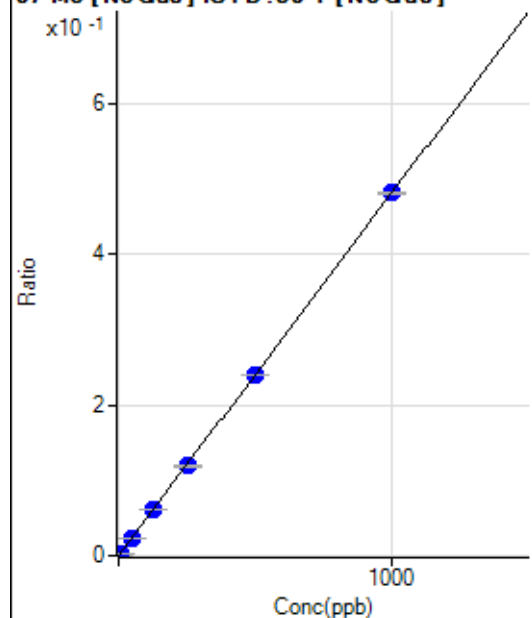
$$DL = 0.02552$$

$$BEC = 0.03405$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2.78	0.0000	P	173.
2	☐	0.500					
3	☐	5.000	4.299	2064.14	0.0021	P	6.3
4	☐	50.000	49.693	24327.26	0.0239	P	2.1
5	☐	125.000	126.550	63272.93	0.0609	P	1.9
6	☐	250.000	247.272	123894.51	0.1191	P	0.6
7	☐	500.000	498.763	253815.02	0.2402	P	0.5
8	☐	1000.000	1001.126	500387.94	0.4821	P	0.5
9	☐			1302.90	0.0013	P	6.7

$$y = 4.8157\text{E-}004 * x + 2.7569\text{E-}006$$

$$R = 1.0000$$

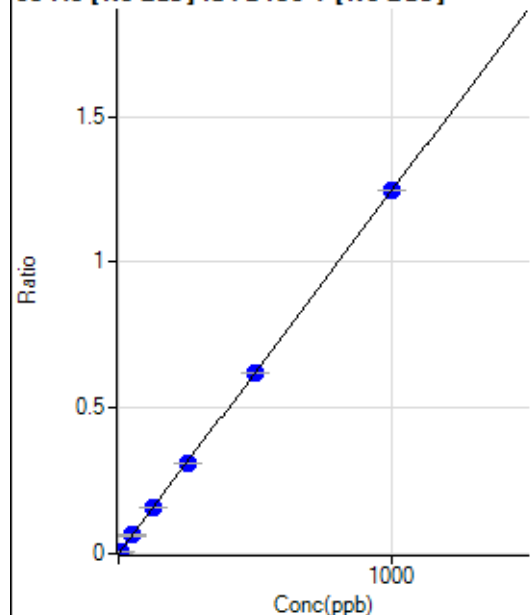
$$DL = 0.02975$$

$$BEC = 0.005725$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19.45	0.0000	P	24.7
2	☐	0.500					
3	☐	5.000	4.320	5370.72	0.0054	P	4.4
4	☐	50.000	50.386	63711.19	0.0627	P	1.1
5	☐	125.000	125.305	161811.71	0.1559	P	0.2
6	☐	250.000	248.418	321443.93	0.3090	P	0.3
7	☐	500.000	499.913	656987.72	0.6217	P	0.5
8	☐	1000.000	1000.385	1291275.68	1.2441	P	0.1
9	☐			3770.11	0.0039	P	9.5

$$y = 0.0012 * x + 1.9292E-005$$

$$R = 1.0000$$

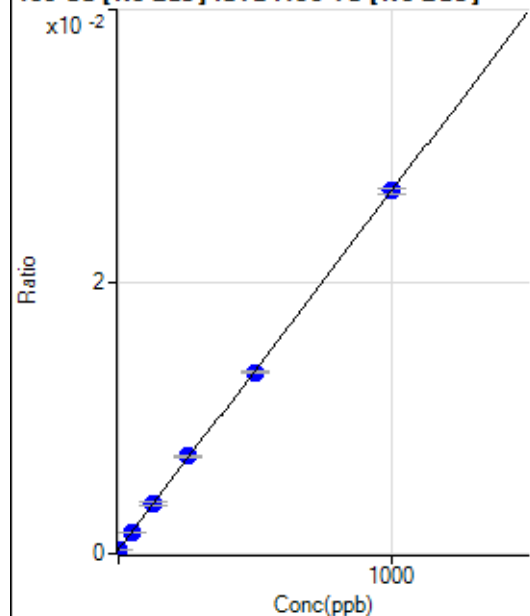
$$DL = 0.01151$$

$$BEC = 0.01551$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	483.36	0.0003	P	17.8
2	☐	0.100					
3	☐	1.000	-0.445	458.36	0.0003	P	4.6
4	☐	50.000	48.191	2466.99	0.0016	P	3.1
5	☐	125.000	126.355	5809.77	0.0036	P	7.6
6	☐	250.000	259.729	11307.80	0.0072	P	1.1
7	☐	500.000	494.557	21508.88	0.0134	P	1.5
8	☐	1000.000	1000.212	42097.22	0.0267	P	1.9
9	☐			433.36	0.0003	P	11.7

$$y = 2.6376E-005 * x + 3.1063E-004$$

$$R = 0.9999$$

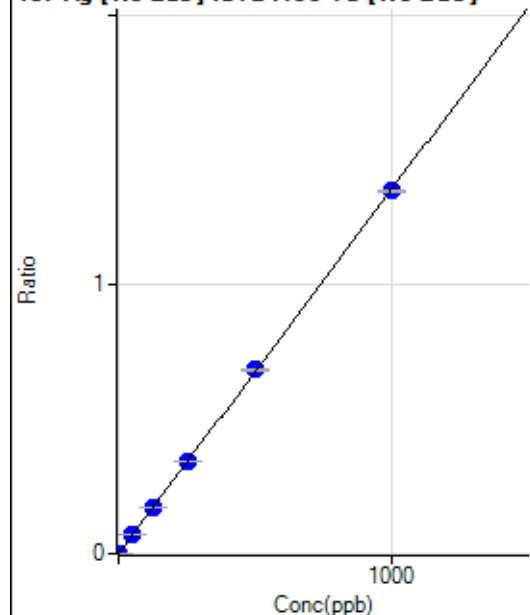
$$DL = 6.281$$

$$BEC = 11.78$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.89	0.0000	P	34.8
2	☐	0.100					
3	☐	1.000	0.883	1847.43	0.0012	P	0.7
4	☐	50.000	52.056	109842.66	0.0704	P	1.3
5	☐	125.000	127.001	273990.35	0.1718	P	0.9
6	☐	250.000	255.374	545537.78	0.3455	P	0.4
7	☐	500.000	504.308	1098715.46	0.6823	P	0.4
8	☐	1000.000	996.149	2125327.42	1.3476	P	0.3
9	☐			305.57	0.0002	P	16.7

$$y = 0.0014 * x + 8.9336E-006$$

$$R = 1.0000$$

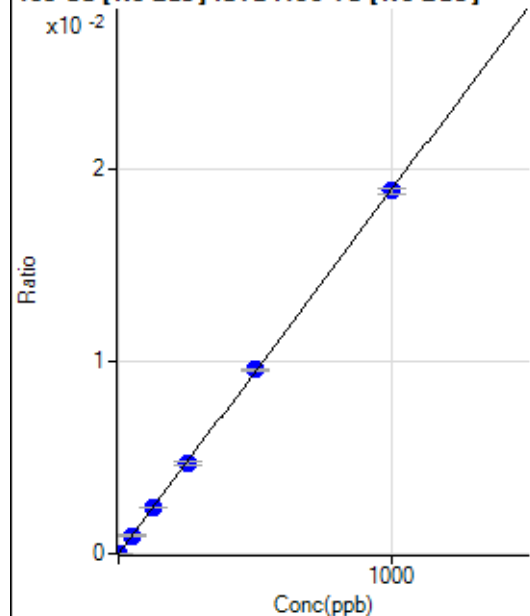
$$DL = 0.0069$$

$$BEC = 0.006604$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	0.100					
3	☐	1.000	0.859	25.00	0.0000	P	28.9
4	☐	50.000	49.492	1464.00	0.0009	P	3.4
5	☐	125.000	127.712	3863.12	0.0024	P	1.2
6	☐	250.000	249.029	7459.08	0.0047	P	2.9
7	☐	500.000	506.401	15471.26	0.0096	P	1.1
8	☐	1000.000	996.729	29816.40	0.0189	P	1.5
9	☐			5.56	0.0000	P	114.

$$y = 1.8969E-005 * x + 0.0000E+000$$

$$R = 1.0000$$

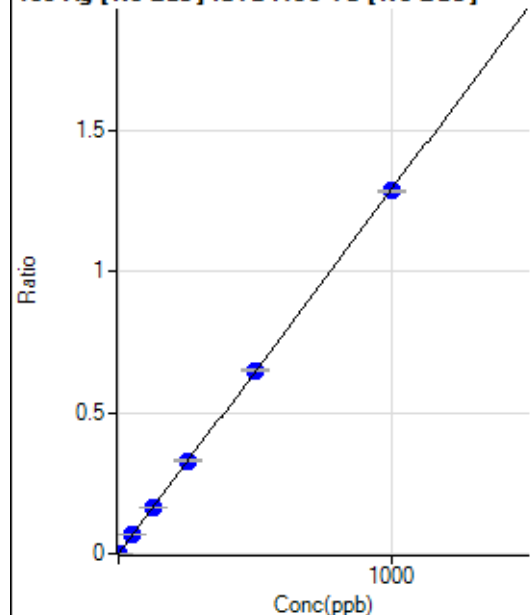
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5.55	0.0000	P	86.6
2	☐	0.100					
3	☐	1.000	0.976	1939.11	0.0013	P	8.5
4	☐	50.000	51.577	103789.52	0.0666	P	0.7
5	☐	125.000	126.835	260972.68	0.1637	P	0.9
6	☐	250.000	255.855	521287.38	0.3301	P	0.2
7	☐	500.000	503.815	1046916.69	0.6501	P	0.2
8	☐	1000.000	996.321	2027373.37	1.2855	P	0.5
9	☐			283.35	0.0002	P	18.3

$$y = 0.0013 * x + 3.5649E-006$$

$$R = 1.0000$$

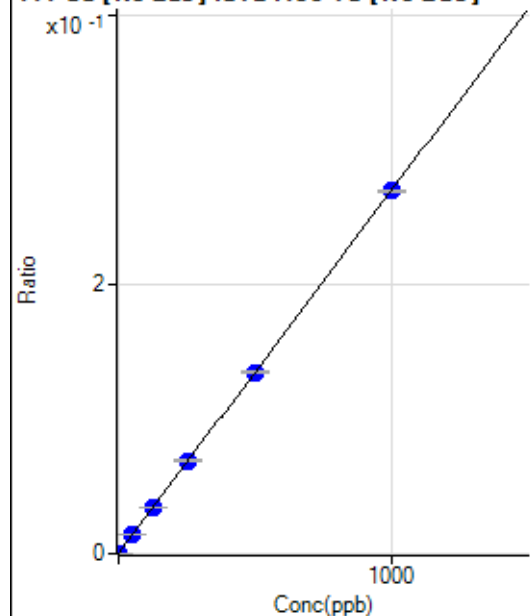
$$DL = 0.007178$$

$$BEC = 0.002763$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	339.74	0.0002	P	18.1
2	☐	0.100					
3	☐	1.000	0.804	668.64	0.0004	P	8.3
4	☐	50.000	51.093	21864.12	0.0140	P	0.6
5	☐	125.000	127.153	55119.39	0.0346	P	0.7
6	☐	250.000	254.902	109069.06	0.0691	P	1.0
7	☐	500.000	499.710	217735.50	0.1352	P	0.4
8	☐	1000.000	998.596	425760.50	0.2700	P	0.2
9	☐			332.79	0.0002	P	8.4

$$y = 2.7012E-004 * x + 2.1833E-004$$

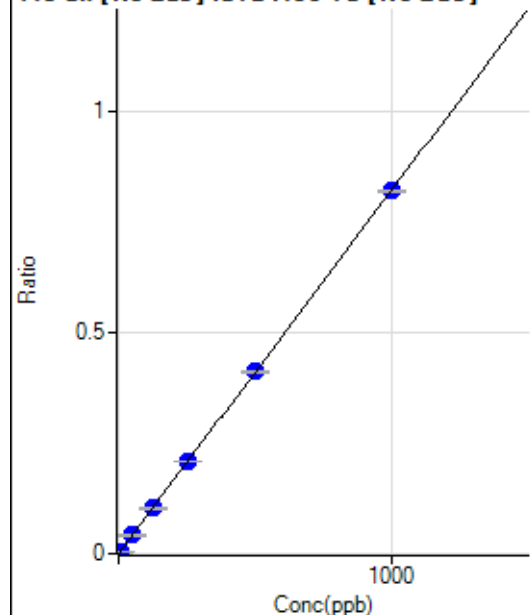
$$R = 1.0000$$

$$DL = 0.4394$$

$$BEC = 0.8083$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	111.12	0.0001	P	26.1
2	☐	0.500					
3	☐	5.000	4.600	5904.29	0.0038	P	2.4
4	☐	50.000	50.415	64692.21	0.0415	P	1.8
5	☐	125.000	124.563	163264.33	0.1024	P	1.9
6	☐	250.000	252.857	328059.24	0.2078	P	0.3
7	☐	500.000	501.226	663118.56	0.4118	P	0.5
8	☐	1000.000	998.709	1293800.32	0.8204	P	0.2
9	☐			1725.18	0.0012	P	7.1

$$y = 8.2136E-004 * x + 7.1395E-005$$

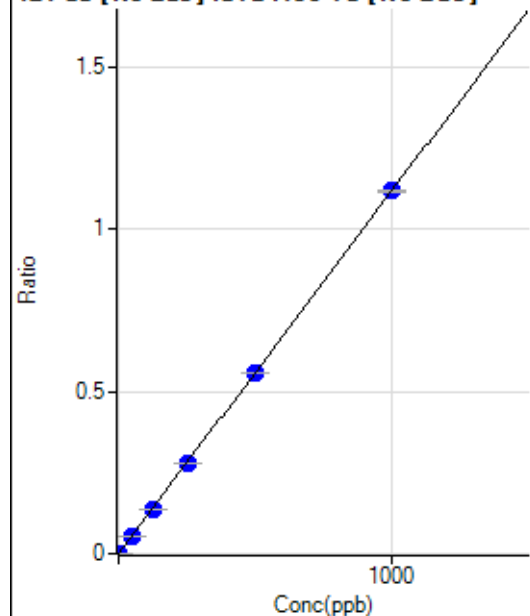
$$R = 1.0000$$

$$DL = 0.068$$

$$BEC = 0.08692$$

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	19.45	0.0000	P	108.
2	☐	0.200					
3	☐	2.000	1.841	3178.29	0.0021	P	4.7
4	☐	50.000	49.335	86028.44	0.0552	P	2.4
5	☐	125.000	123.530	220213.44	0.1381	P	0.6
6	☐	250.000	249.263	439986.97	0.2786	P	0.5
7	☐	500.000	498.448	897307.13	0.5572	P	0.4
8	☐	1000.000	1001.177	1764985.61	1.1191	P	0.3
9	☐			4512.07	0.0031	P	4.5

$$y = 0.0011 * x + 1.2516E-005$$

$$R = 1.0000$$

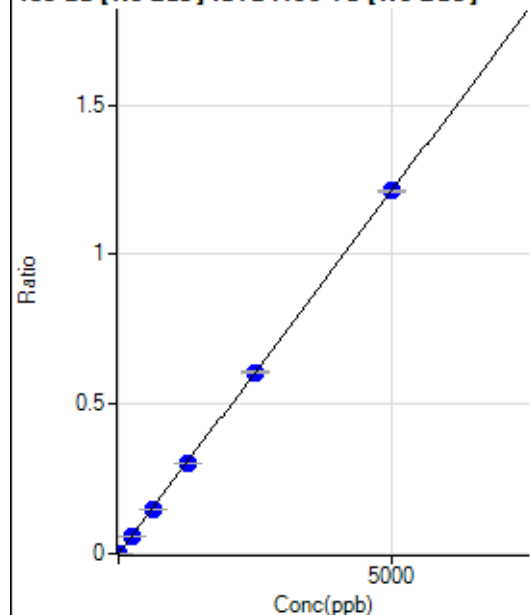
$$DL = 0.03629$$

$$BEC = 0.0112$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.33	0.0000	P	0.3
2	☐	1.000					
3	☐	10.000	9.252	3453.36	0.0023	P	2.9
4	☐	250.000	247.949	93830.21	0.0602	P	1.3
5	☐	625.000	617.288	238839.30	0.1498	P	1.5
6	☐	1250.000	1254.356	480572.78	0.3043	P	0.4
7	☐	2500.000	2498.931	976407.57	0.6063	P	0.7
8	☐	5000.000	5000.514	1913415.91	1.2133	P	0.4
9	☐			613.93	0.0004	P	14.9

$$y = 2.4263\text{E-}004 * x + 5.3548\text{E-}006$$

$$R = 1.0000$$

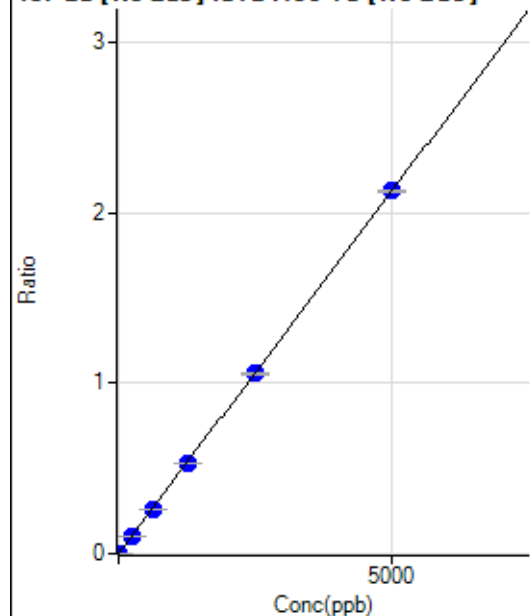
$$DL = 0.0001783$$

$$BEC = 0.02207$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	132.
2	☐	1.000					
3	☐	10.000	9.291	6073.82	0.0040	P	4.8
4	☐	250.000	248.838	165006.47	0.1058	P	0.0
5	☐	625.000	618.114	419073.34	0.2628	P	0.6
6	☐	1250.000	1248.038	837860.71	0.5306	P	0.3
7	☐	2500.000	2485.745	1701957.25	1.0568	P	0.6
8	☐	5000.000	5008.538	3358221.45	2.1294	P	0.3
9	☐			897.30	0.0006	P	10.7

$$y = 4.2515\text{E-}004 * x + 1.0734\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.1003$$

$$BEC = 0.02525$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐						
3	☐			0.00		P	
4	☐			2.22		P	173.
5	☐			4.45		P	86.6
6	☐			24.45		P	31.5
7	☐			77.78		P	13.1
8	☐			153.34		P	13.0
9	☐			13.33		P	50.0

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐						
3	☐			1.11		P	173.
4	☐			2.22		P	86.6
5	☐			8.89		P	21.6
6	☐			7.78		P	99.0
7	☐			21.11		P	50.8
8	☐			31.11		P	48.3
9	☐			20.00		P	33.4

156 Dy [No Gas] No available calibration points

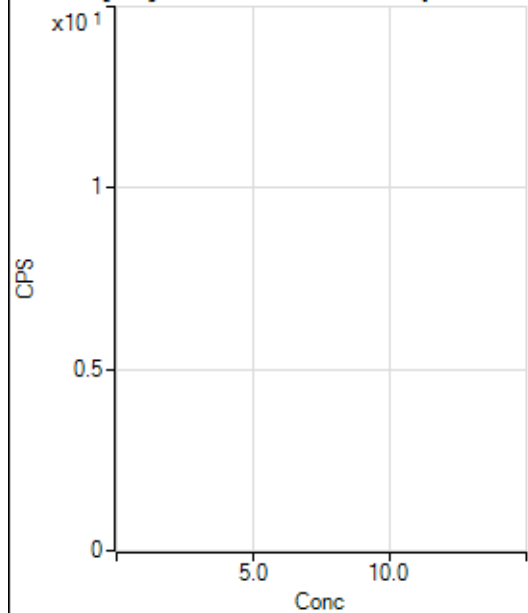
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.78		P	173.
2	☐						
3	☐			5.56		P	173.
4	☐			0.00		P	
5	☐			5.55		P	86.6
6	☐			2.78		P	173.
7	☐			19.45		P	24.7
8	☐			30.56		P	41.7
9	☐			13.89		P	34.7

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐						
3	☐			1.11		P	173.
4	☐			2.22		P	86.6
5	☐			3.33		P	100.
6	☐			23.34		P	24.7
7	☐			30.00		P	11.1
8	☐			52.22		P	14.7
9	☐			12.22		P	41.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.34		P	86.6
2	☐						
3	☐			25.00		P	33.3
4	☐			25.00		P	66.7
5	☐			27.78		P	17.3
6	☐			22.22		P	57.3
7	☐			52.78		P	48.2
8	☐			58.33		P	51.5
9	☐			41.67		P	52.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			165.56		P	15.4
2	☐						
3	☐			160.00		P	10.8
4	☐			168.89		P	12.1
5	☐			153.34		P	19.6
6	☐			196.67		P	15.1
7	☐			192.23		P	8.7
8	☐			188.90		P	7.3
9	☐			197.78		P	8.0

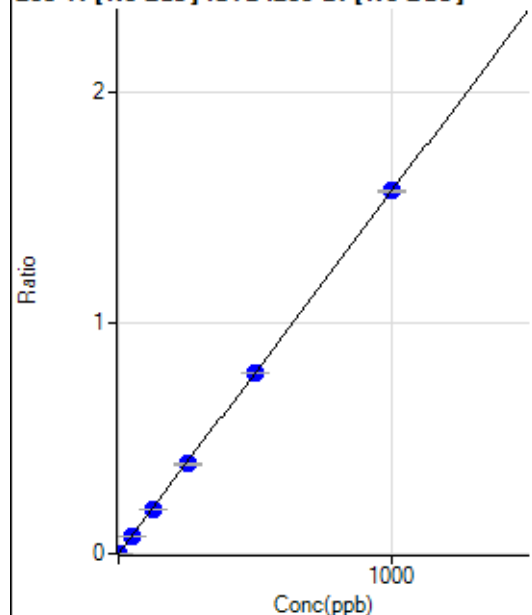
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.55		P	68.6
2	☐						
3	☐			25.00		P	57.7
4	☐			38.89		P	32.7
5	☐			30.55		P	68.6
6	☐			27.78		P	45.8
7	☐			38.89		P	86.6
8	☐			44.45		P	28.7
9	☐			44.45		P	65.8

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	78.1
2	☐						
3	☐			5.55		P	124.
4	☐			2.22		P	86.6
5	☐			7.78		P	24.7
6	☐			11.11		P	17.3
7	☐			14.44		P	35.3
8	☐			5.56		P	91.6
9	☐			12.22		P	68.7

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	47.22	0.0000	P	62.0
2	☐	0.100					
3	☐	1.000	0.952	1900.21	0.0015	P	8.3
4	☐	50.000	49.886	99062.47	0.0782	P	1.2
5	☐	125.000	123.423	247478.88	0.1935	P	0.3
6	☐	250.000	247.482	493087.07	0.3879	P	0.6
7	☐	500.000	498.892	991930.35	0.7820	P	0.3
8	☐	1000.000	1001.387	1936671.85	1.5695	P	0.5
9	☐			863.95	0.0008	P	9.1

$$y = 0.0016 * x + 3.7271E-005$$

$$R = 1.0000$$

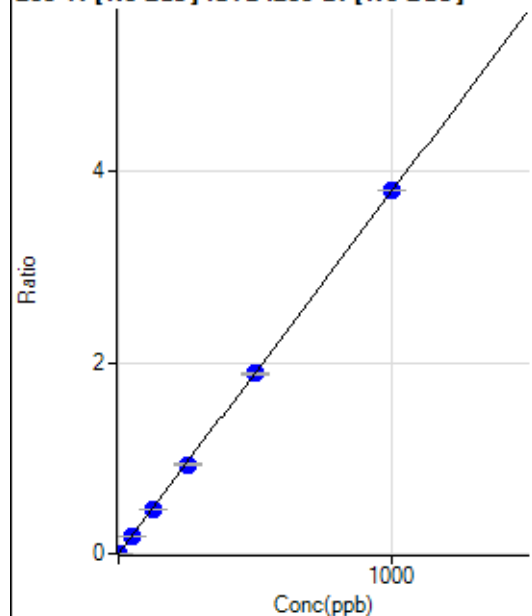
$$DL = 0.0442$$

$$BEC = 0.02378$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	52.78	0.0000	P	24.0
2	☐	0.100					
3	☐	1.000	0.899	4281.44	0.0034	P	2.8
4	☐	50.000	49.844	239165.55	0.1889	P	0.5
5	☐	125.000	123.915	600450.86	0.4694	P	0.9
6	☐	250.000	246.685	1187865.69	0.9345	P	0.3
7	☐	500.000	497.119	2388824.77	1.8832	P	0.9
8	☐	1000.000	1002.412	4685729.10	3.7973	P	0.2
9	☐			2078.04	0.0019	P	10.9

$$y = 0.0038 * x + 4.1661E-005$$

$$R = 1.0000$$

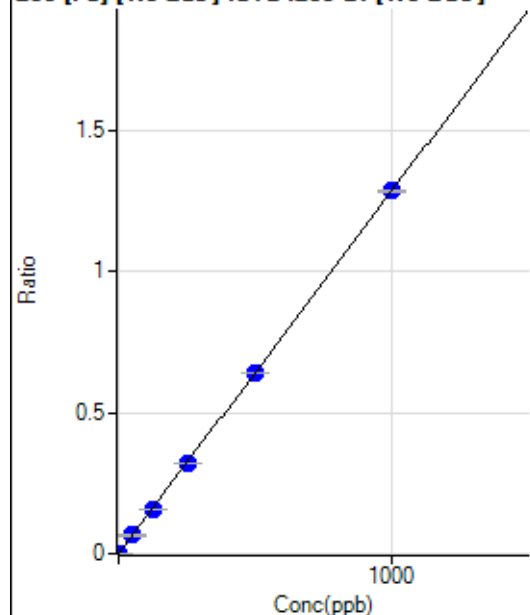
$$DL = 0.007928$$

$$BEC = 0.011$$

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	294.46	0.0002	P	17.9
2	☐	0.100					
3	☐	1.000	0.889	1703.87	0.0014	P	4.7
4	☐	50.000	50.384	82138.09	0.0649	P	0.9
5	☐	125.000	123.756	203347.66	0.1590	P	0.4
6	☐	250.000	248.448	405386.33	0.3189	P	0.3
7	☐	500.000	498.386	811219.52	0.6395	P	0.6
8	☐	1000.000	1001.332	1585206.94	1.2847	P	0.3
9	☐			1857.59	0.0017	P	5.3

$$y = 0.0013 * x + 2.3244E-004$$

$$R = 1.0000$$

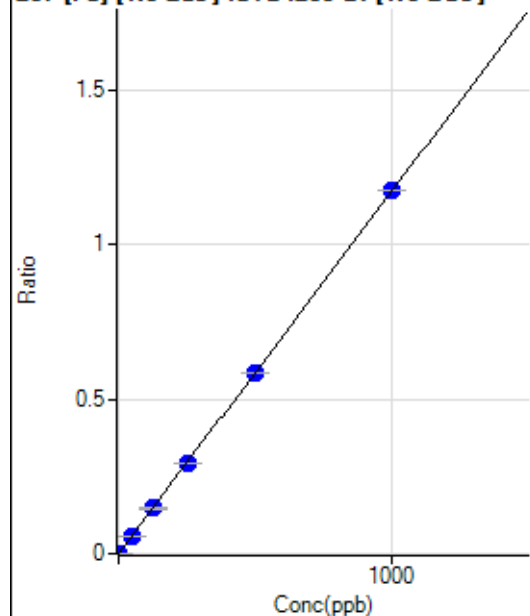
$$DL = 0.09746$$

$$BEC = 0.1812$$

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	240.75	0.0002	P	5.7
2	☐	0.100					
3	☐	1.000	0.858	1481.61	0.0012	P	4.4
4	☐	50.000	49.626	73730.16	0.0582	P	0.9
5	☐	125.000	124.670	186719.60	0.1460	P	0.4
6	☐	250.000	248.255	369252.45	0.2905	P	0.5
7	☐	500.000	497.077	737590.63	0.5815	P	0.2
8	☐	1000.000	1001.958	1446035.90	1.1719	P	0.1
9	☐			1679.80	0.0015	P	4.5

$$y = 0.0012 * x + 1.9006E-004$$

$$R = 1.0000$$

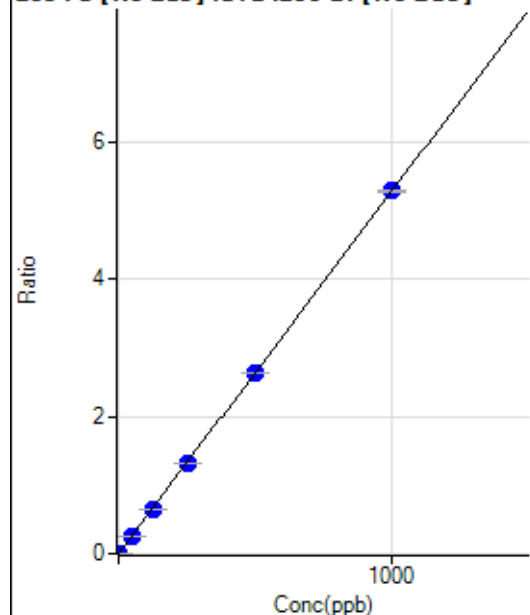
$$DL = 0.02787$$

$$BEC = 0.1625$$

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	1124.13	0.0009	P	5.5
2	☐	0.100					
3	☐	1.000	0.912	7067.64	0.0057	P	1.6
4	☐	50.000	49.944	334304.92	0.2640	P	0.4
5	☐	125.000	124.173	837809.79	0.6550	P	0.5
6	☐	250.000	248.016	1661828.06	1.3074	P	0.1
7	☐	500.000	497.263	3323910.16	2.6204	P	0.3
8	☐	1000.000	1001.971	6514034.72	5.2791	P	0.3
9	☐			7703.00	0.0071	P	1.5

$$y = 0.0053 * x + 8.8741E-004$$

$$R = 1.0000$$

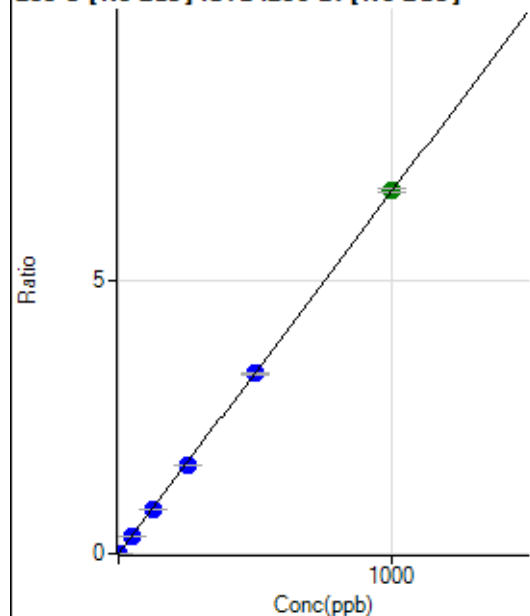
$$DL = 0.02761$$

$$BEC = 0.1685$$

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	66.67	0.0001	P	12.6
2	☐	0.100					
3	☐	1.000	0.851	7057.76	0.0057	P	2.1
4	☐	50.000	48.404	405732.40	0.3204	P	1.4
5	☐	125.000	121.291	1026848.56	0.8028	P	0.4
6	☐	250.000	244.146	2053938.09	1.6159	P	0.3
7	☐	500.000	497.875	4179860.60	3.2951	P	0.4
8	☐	1000.000	1003.070	8192103.13	6.6386	A	1.0
9	☐			802.84	0.0007	P	14.9

$$y = 0.0066 * x + 5.2637E-005$$

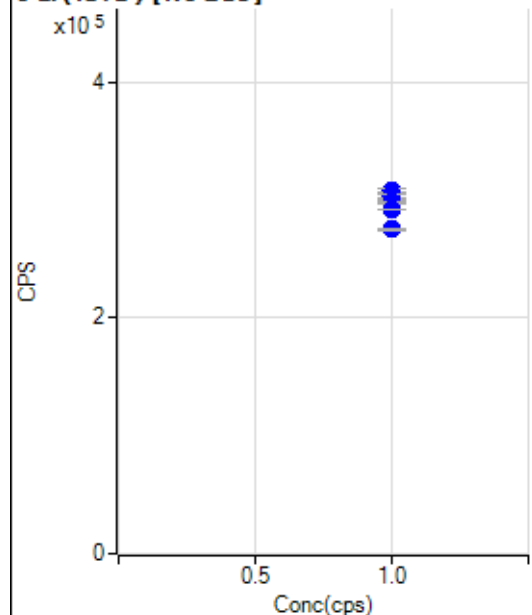
$$R = 1.0000$$

$$DL = 0.003003$$

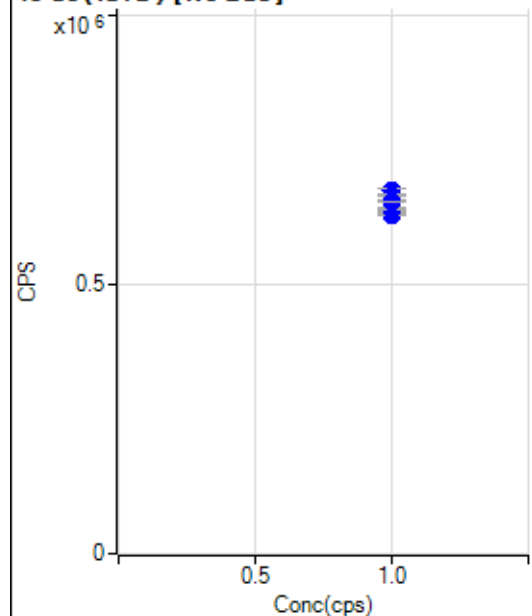
$$BEC = 0.007953$$

Weight: <None>

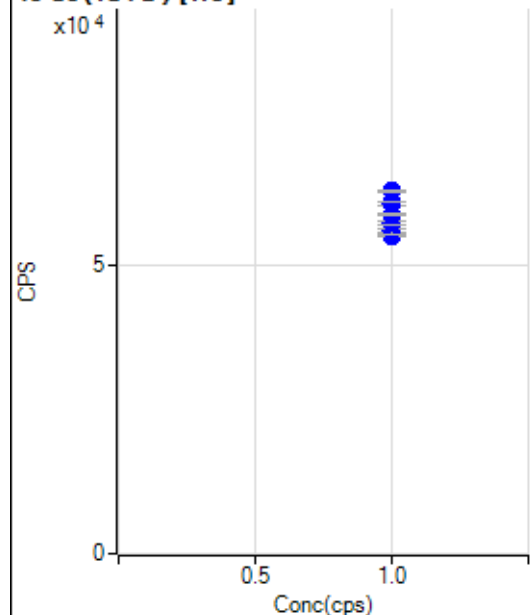
Min Conc: 0

6 Li (ISTD) [No Gas]

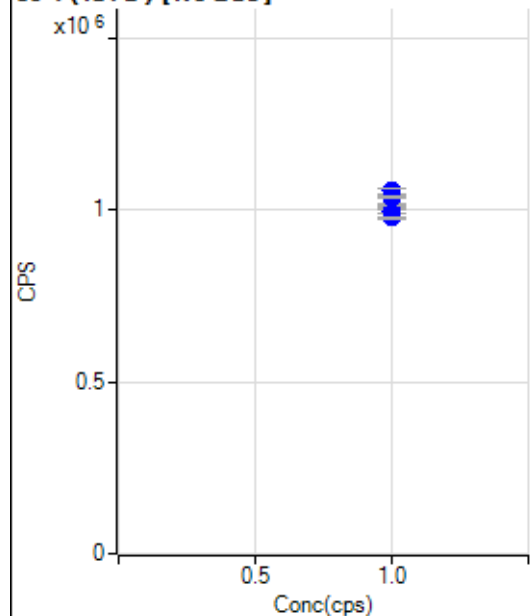
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		305765.08		P	0.4
2	☐	1.000					
3	☐	1.000		307767.78		P	1.2
4	☐	1.000		305012.67		P	0.3
5	☐	1.000		303602.71		P	0.7
6	☐	1.000		298987.32		P	0.6
7	☐	1.000		297286.45		P	0.7
8	☐	1.000		291800.35		P	0.3
9	☐	1.000		274992.15		P	0.6

45 Sc (ISTD) [No Gas]

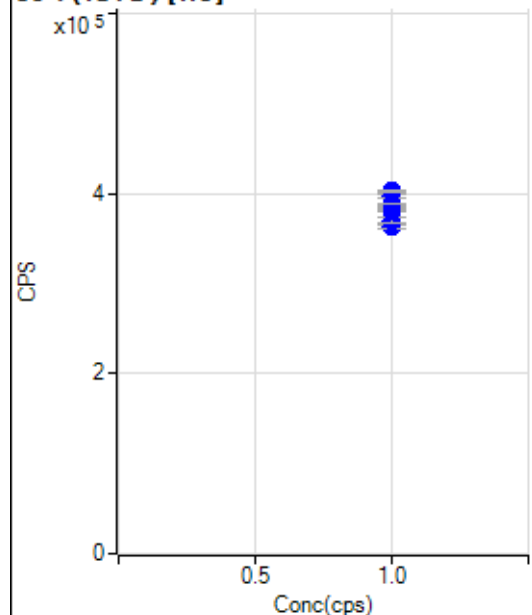
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		632594.39		P	0.4
2	☐	1.000					
3	☐	1.000		628549.70		P	0.3
4	☐	1.000		640442.71		P	0.6
5	☐	1.000		654532.46		P	0.8
6	☐	1.000		657936.01		P	0.0
7	☐	1.000		673411.30		P	1.6
8	☐	1.000		665569.97		P	0.7
9	☐	1.000		652519.25		P	0.3

45 Sc (ISTD) [He]

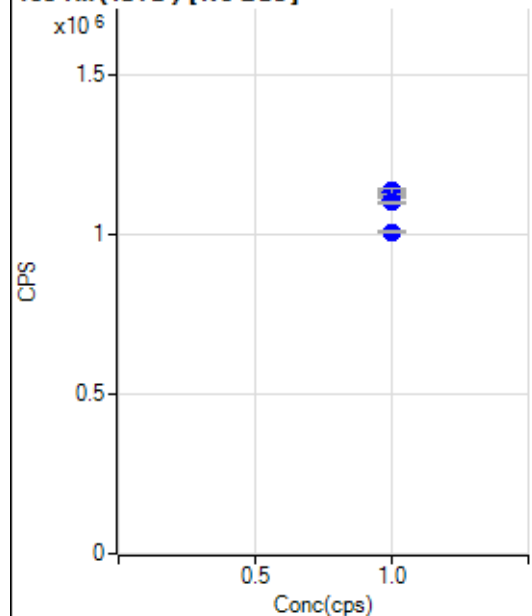
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		55054.30		P	0.5
2	☐	1.000					
3	☐	1.000		55234.87		P	1.3
4	☐	1.000		55810.58		P	1.3
5	☐	1.000		57240.26		P	0.8
6	☐	1.000		58707.00		P	0.5
7	☐	1.000		60565.63		P	1.1
8	☐	1.000		60975.10		P	0.3
9	☐	1.000		62831.83		P	0.9

89 Y (ISTD) [No Gas]

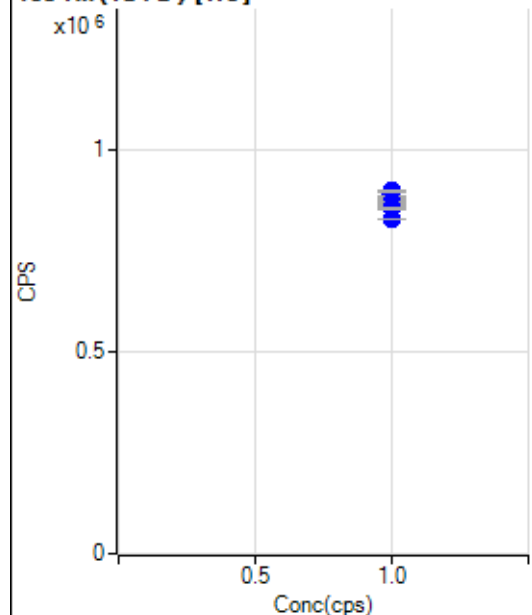
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1008028.46		P	0.1
2	☐	1.000					
3	☐	1.000		995710.04		P	1.2
4	☐	1.000		1016377.09		P	0.6
5	☐	1.000		1038225.23		P	0.3
6	☐	1.000		1040410.88		P	0.5
7	☐	1.000		1056731.41		P	1.2
8	☐	1.000		1037889.31		P	0.3
9	☐	1.000		977552.37		P	0.1

89 Y (ISTD) [He]

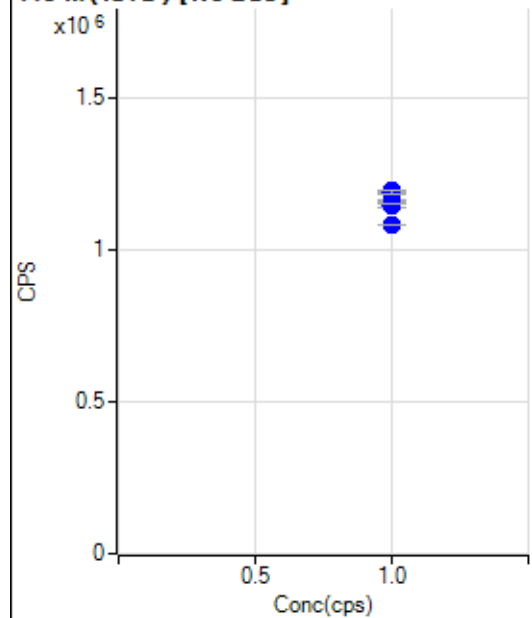
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		364598.84		P	0.1
2	☐	1.000					
3	☐	1.000		363312.91		P	0.7
4	☐	1.000		370533.46		P	1.3
5	☐	1.000		380718.42		P	0.6
6	☐	1.000		384864.17		P	0.7
7	☐	1.000		396822.01		P	0.8
8	☐	1.000		389085.09		P	0.2
9	☐	1.000		402939.61		P	0.6

103 Rh (ISTD) [No Gas]

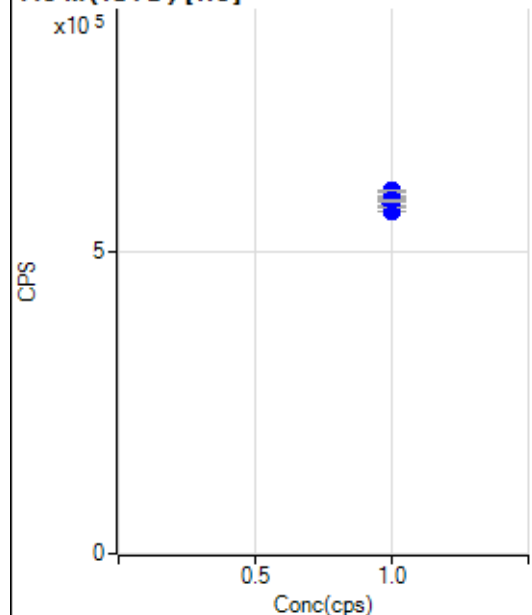
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1119847.82		P	0.1
2	☐	1.000					
3	☐	1.000		1107972.21		P	1.1
4	☐	1.000		1122267.29		P	0.5
5	☐	1.000		1137874.73		P	0.5
6	☐	1.000		1132552.76		P	0.3
7	☐	1.000		1136200.53		P	1.4
8	☐	1.000		1100758.02		P	0.8
9	☐	1.000		1009056.32		P	0.4

103 Rh (ISTD) [He]

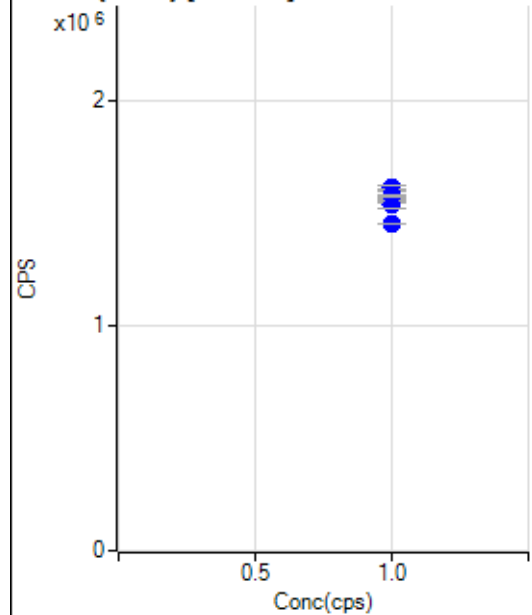
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		863515.35		P	0.5
2	☐	1.000					
3	☐	1.000		863971.52		P	0.2
4	☐	1.000		873513.48		P	0.5
5	☐	1.000		883830.55		P	0.4
6	☐	1.000		887675.80		P	1.1
7	☐	1.000		897119.62		P	0.2
8	☐	1.000		855393.30		P	0.5
9	☐	1.000		827890.44		P	0.4

115 In (ISTD) [No Gas]

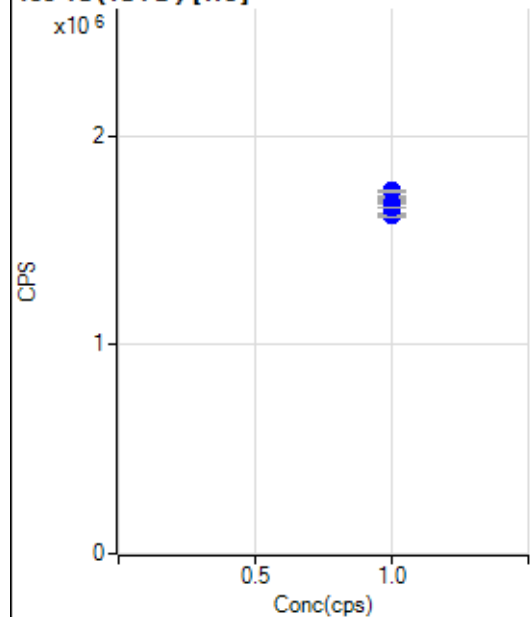
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1162816.01		P	0.4
2	☐	1.000					
3	☐	1.000		1147219.82		P	1.0
4	☐	1.000		1166999.34		P	0.1
5	☐	1.000		1195349.31		P	0.4
6	☐	1.000		1184573.52		P	0.2
7	☐	1.000		1191921.37		P	0.9
8	☐	1.000		1154350.20		P	0.3
9	☐	1.000		1082390.25		P	0.2

115 In (ISTD) [He]

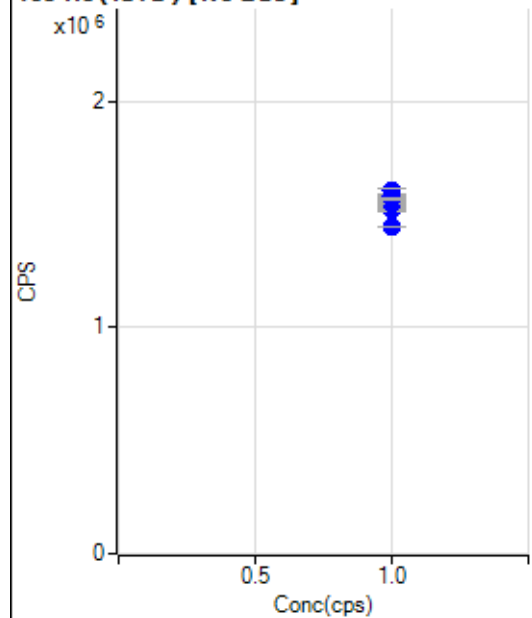
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		567668.12		P	0.2
2	☐	1.000					
3	☐	1.000		566537.07		P	0.2
4	☐	1.000		579370.03		P	0.8
5	☐	1.000		591047.20		P	0.5
6	☐	1.000		592404.70		P	0.5
7	☐	1.000		601190.55		P	0.4
8	☐	1.000		573192.45		P	0.1
9	☐	1.000		584932.29		P	0.3

159 Tb (ISTD) [No Gas]

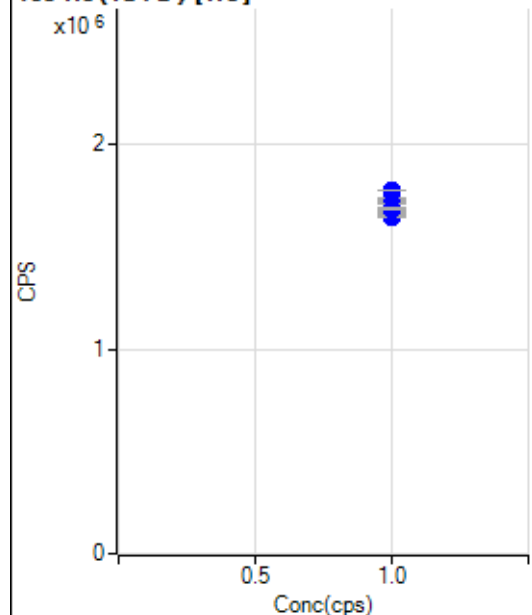
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1555635.19		P	0.3
2	☐	1.000					
3	☐	1.000		1534218.21		P	1.6
4	☐	1.000		1559544.44		P	0.5
5	☐	1.000		1594641.66		P	0.0
6	☐	1.000		1579039.99		P	0.1
7	☐	1.000		1610474.37		P	1.0
8	☐	1.000		1577103.40		P	0.7
9	☐	1.000		1450064.89		P	0.1

159 Tb (ISTD) [He]

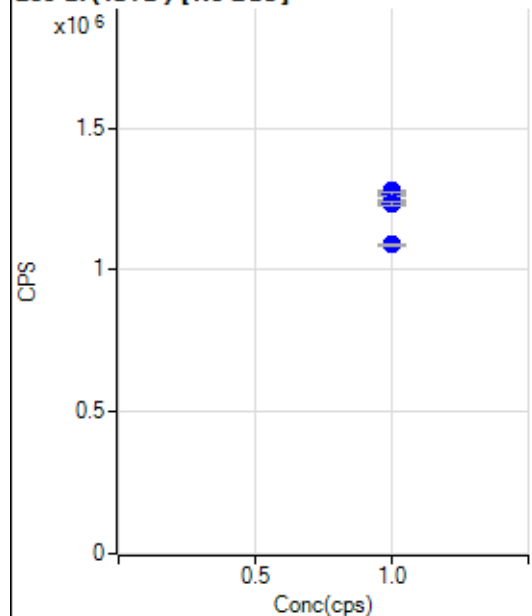
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1627966.64		P	0.6
2	☐	1.000					
3	☐	1.000		1616739.80		P	0.2
4	☐	1.000		1656453.97		P	0.1
5	☐	1.000		1689670.01		P	0.7
6	☐	1.000		1706390.86		P	0.7
7	☐	1.000		1737859.23		P	0.5
8	☐	1.000		1674760.84		P	0.2
9	☐	1.000		1659055.04		P	0.2

165 Ho (ISTD) [No Gas]

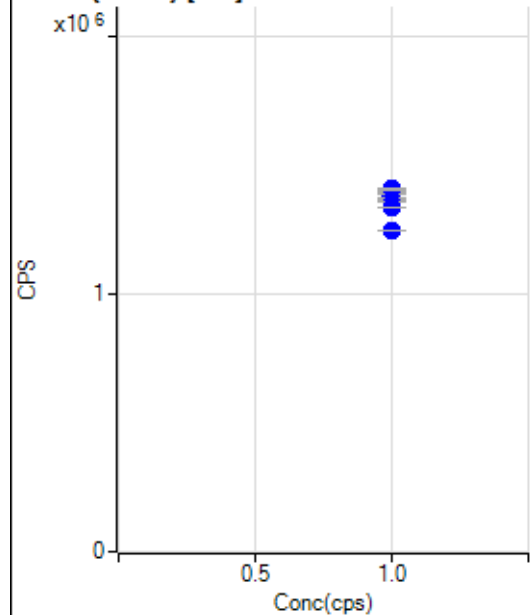
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1535778.56		P	0.7
2	☐	1.000					
3	☐	1.000		1517707.14		P	0.9
4	☐	1.000		1550328.61		P	0.8
5	☐	1.000		1580050.36		P	0.3
6	☐	1.000		1581422.66		P	0.7
7	☐	1.000		1602873.80		P	1.3
8	☐	1.000		1571050.72		P	0.6
9	☐	1.000		1442895.56		P	0.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1658523.93		P	0.3
2	☐	1.000					
3	☐	1.000		1649474.00		P	0.1
4	☐	1.000		1683090.46		P	1.0
5	☐	1.000		1718428.06		P	0.3
6	☐	1.000		1736309.38		P	0.5
7	☐	1.000		1773649.96		P	0.2
8	☐	1.000		1709918.66		P	0.3
9	☐	1.000		1685068.92		P	0.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1266707.11		P	0.1
2	☐	1.000					
3	☐	1.000		1241799.07		P	1.4
4	☐	1.000		1266396.20		P	0.7
5	☐	1.000		1279088.31		P	0.5
6	☐	1.000		1271100.48		P	0.0
7	☐	1.000		1268501.74		P	0.8
8	☐	1.000		1233952.69		P	0.9
9	☐	1.000		1088203.32		P	0.8

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1372034.15		P	0.4
2	☐	1.000					
3	☐	1.000		1359883.82		P	0.1
4	☐	1.000		1381615.48		P	0.8
5	☐	1.000		1398228.63		P	0.2
6	☐	1.000		1395217.12		P	0.7
7	☐	1.000		1409461.05		P	0.6
8	☐	1.000		1338068.67		P	0.3
9	☐	1.000		1247202.60		P	0.3

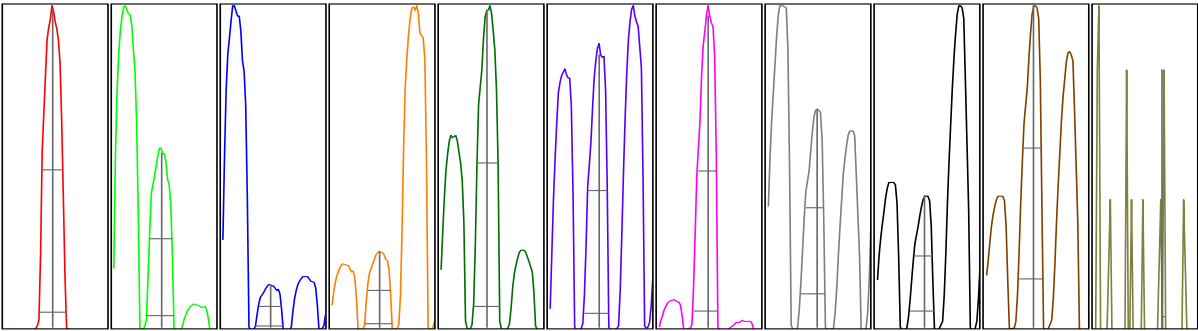
US EPA Tune Check Sample Report

Batch Folder D:\ICP-MS Data\P7100917 -MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]				
Mass	Count	RSD%	RSD%	RSD%
	(Mean)	(Actual)	(Required)	(Flag)
9	1326	0.57	5.00	
24	5208	0.33	5.00	
25	749	1.06	5.00	
26	917	0.95	5.00	
59	8707	0.33	5.00	
113	1262	1.10	5.00	
115	15613	0.75	5.00	
206	4647	0.36	5.00	
207	4407	0.68	5.00	
208	10171	0.43	5.00	
220	0	122.47		

Mass	Replicate 1	Replicate 2	Replicate 3	Replicate 4	Replicate 5
	Count	Count	Count	Count	Count
9	1317	1324	1324	1324	1338
24	5189	5226	5191	5212	5223
25	749	756	736	754	749
26	911	907	922	919	928
59	8682	8740	8678	8700	8734
113	1260	1285	1258	1260	1248
115	15709	15763	15575	15497	15521
206	4669	4661	4630	4638	4638
207	4434	4426	4384	4426	4367
208	10186	10222	10107	10190	10150
220	0	0	0	0	0

Integration Time [sec] = 0.1



Mass	Peak	Axis	Axis	Axis	Width-X%	Width-X%	Width-
	Height	(Actual)	(Required)	(Flag)	(Actual)	(Required)	X% (Flag)
9	2324	8.95	8.9 - 9.1		0.778	0.900	
24	8375	23.95	23.9 - 24.1		0.787	0.900	
25	1171	24.95	24.9 - 25.1		0.790	0.900	
26	1405	25.95	25.9 - 26.1		0.788	0.900	
59	15067	58.90	58.9 - 59.1		0.754	0.900	
113	2300	113.00	112.9 - 113.1		0.726	0.900	
115	28755	115.00	114.9 - 115.1		0.727	0.900	
206	8722	206.00	205.9 - 206.1		0.707	0.900	
207	7901	206.95	206.9 - 207.1		0.711	0.900	
208	19218	207.95	207.9 - 208.1		0.710	0.900	
220	0	220.50	-		0.095		

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
RF Power	1600	W	Carrier Gas	0.80	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.37 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	18.0	V	Deflect	20.0	V
Extract 2	-215.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-110	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	140	V			

[He]

Mass	Count	RSD%	RSD%
	(Mean)	(Actual)	(Required)
59	3713	0.20	
89	2633	0.55	
205	7361	0.15	

Mass	Replicate 1	Replicate 2	Replicate 3	Replicate 4	Replicate 5
	Count	Count	Count	Count	Count
59	3706	3713	3705	3718	3723
89	2658	2625	2629	2627	2625
205	7347	7373	7353	7368	7365

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.80	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.37 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	18.0	V	Deflect	5.0	V
Extract 2	-240.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-120	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	4.1	mL/min	OctP RF	200	V			