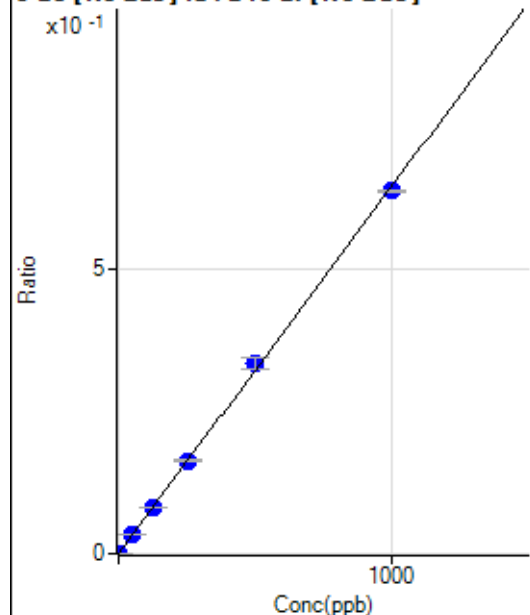


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8061220MS.b\
Analysis File: P8061220MS.batch.bin
DA Date-Time: 2020-06-12 16:56:20
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-06-12 13:44:23
2	004CALS.d	S01	2020-06-12 13:47:34
3	005CALS.d	S02	2020-06-12 13:50:42
4	006CALS.d	S03	2020-06-12 13:53:53
5	007CALS.d	S04	2020-06-12 13:57:01
6	008CALS.d	S05	2020-06-12 14:00:09
7	009CALS.d	S06	2020-06-12 14:03:08
8	010CALS.d	S07	2020-06-12 14:06:08
9	011CALS.d	S08	2020-06-12 14:09:06

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	65.99	0.0001	P	7.8
2	☒	0.100					
3	☐	1.000	1.008	483.25	0.0008	P	2.2
4	☐	50.000	51.923	21617.51	0.0336	P	1.1
5	☐	125.000	127.054	53124.34	0.0821	P	1.3
6	☐	250.000	253.917	107633.83	0.1640	P	0.4
7	☐	500.000	520.162	217779.23	0.3359	P	6.1
8	☐	1000.000	988.587	443629.36	0.6383	P	0.7
9	☐			187.30	0.0003	P	2.5

$$y = 6.4561E-004 * x + 1.0254E-004$$

$$R = 0.9997$$

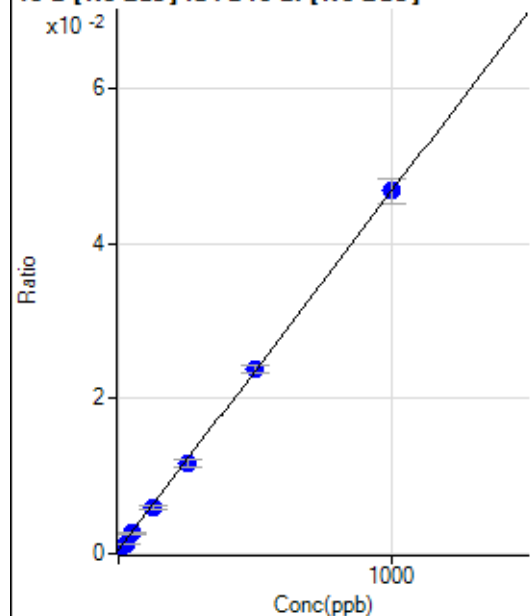
$$DL = 0.03702$$

$$BEC = 0.1588$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	316.61	0.0005	P	11.3
2	☐	2.500	0.707	338.61	0.0005	P	4.9
3	☐	25.000	17.953	848.53	0.0013	P	6.3
4	☐	50.000	45.680	1676.44	0.0026	P	6.2
5	☐	125.000	118.254	3859.76	0.0060	P	7.9
6	☐	250.000	239.307	7593.15	0.0116	P	8.7
7	☐	500.000	505.432	15529.13	0.0239	P	4.1
8	☐	1000.000	1001.197	32569.51	0.0468	P	6.7
9	☐			5830.70	0.0092	P	11.4

$$y = 4.6293E-005 * x + 4.9222E-004$$

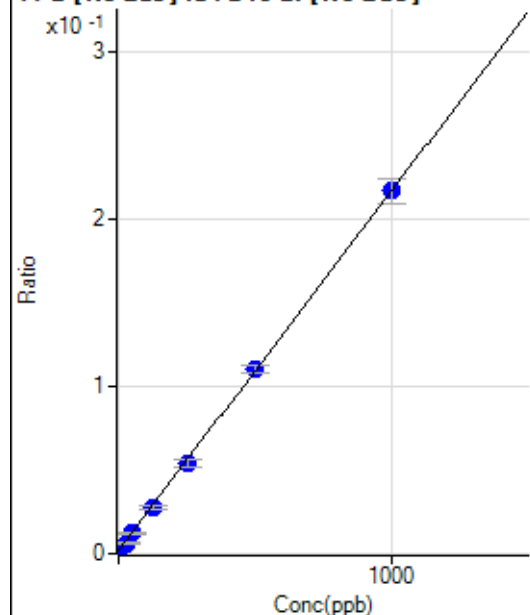
$$R = 0.9999$$

$$DL = 3.603$$

$$BEC = 10.63$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1355.80	0.0021	P	2.8
2	☐	2.500	1.894	1621.78	0.0025	P	2.3
3	☐	25.000	19.549	4046.44	0.0063	P	8.0
4	☐	50.000	47.903	7979.93	0.0124	P	7.8
5	☐	125.000	118.529	17852.02	0.0276	P	8.8
6	☐	250.000	243.930	35807.78	0.0546	P	8.6
7	☐	500.000	504.916	71959.69	0.1107	P	3.8
8	☐	1000.000	1000.111	151013.33	0.2172	P	7.0
9	☐			26838.57	0.0423	P	10.7

$$y = 2.1504\text{E-}004 * x + 0.0021$$

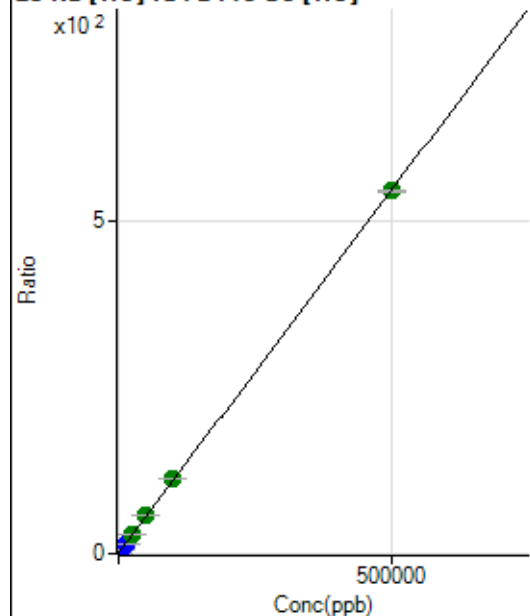
$$R = 0.9999$$

$$DL = 0.833$$

$$BEC = 9.799$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25058.11	0.4684	P	0.5
2	☒	50.000					
3	☐	500.000	500.346	54106.43	1.0141	P	1.5
4	☐	5000.000	5485.001	341862.29	6.4506	P	1.3
5	☐	12500.000	13206.038	804213.42	14.8716	P	0.1
6	☐	25000.000	26444.232	1578081.16	29.3099	A	2.4
7	☐	50000.000	52971.580	3155693.39	58.2421	A	1.7
8	☐	100000.00	102537.02	6269880.09	112.3008	A	0.6
9	☐	500000.00	499100.72	28631067.31	544.8146	A	0.9

$$y = 0.0011 * x + 0.4684$$

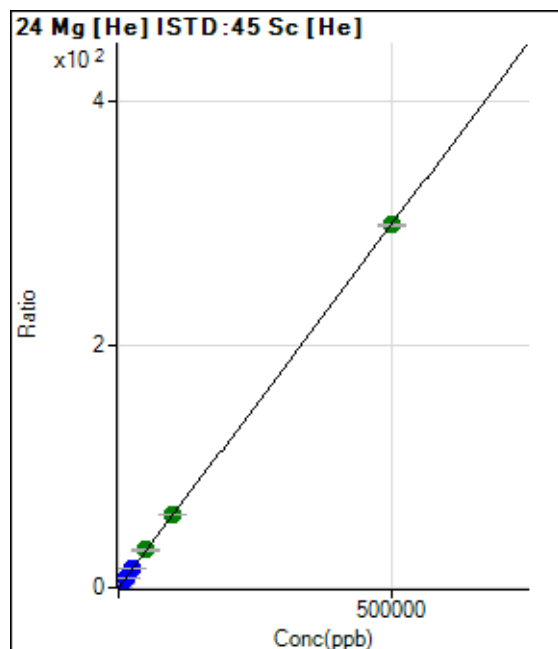
$$R = 1.0000$$

$$DL = 5.912$$

$$BEC = 429.5$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	241.67	0.0045	P	35.2
2	☒	50.000					
3	☐	500.000	477.530	15469.70	0.2900	P	3.6
4	☐	5000.000	5246.988	166502.34	3.1419	P	1.7
5	☐	12500.000	12784.576	413602.55	7.6489	P	0.9
6	☐	25000.000	26048.652	838874.27	15.5800	P	1.1
7	☐	50000.000	52088.207	1687599.50	31.1502	A	2.6
8	☐	100000.00	100987.29	3371419.00	60.3889	A	0.9
9	☐	500000.00	499531.72	15697545.66	298.6947	A	0.8

$$y = 5.9794\text{E-}004 * x + 0.0045$$

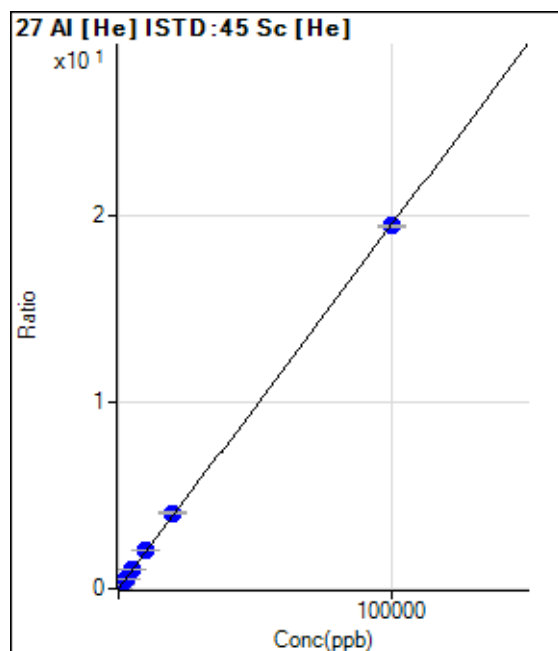
$$R = 1.0000$$

$$DL = 7.951$$

$$BEC = 7.532$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	211.96	0.0040	P	13.5
2	☒	2.000					
3	☐	20.000	21.227	432.59	0.0081	P	5.8
4	☐	1000.000	1101.205	11611.67	0.2191	P	3.7
5	☐	2500.000	2632.788	28033.98	0.5184	P	1.6
6	☐	5000.000	5311.428	56094.76	1.0418	P	1.6
7	☐	10000.000	10711.133	113631.38	2.0970	P	0.6
8	☐	20000.000	20827.640	227431.96	4.0738	P	1.1
9	☐	100000.00	99743.455	1024430.39	19.4942	P	0.4

$$y = 1.9540\text{E-}004 * x + 0.0040$$

$$R = 0.9999$$

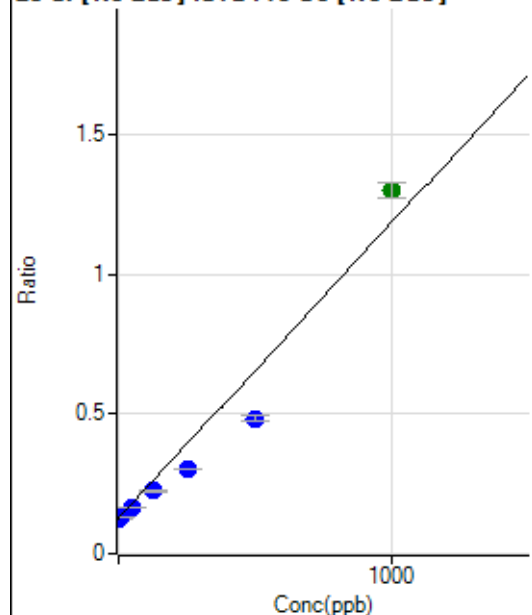
$$DL = 8.241$$

$$BEC = 20.29$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	217010.44	0.1272	P	0.6
2	☐	1.000	-2.835	216370.52	0.1242	P	1.6
3	☐	10.000	3.510	227427.61	0.1309	P	1.2
4	☐	50.000	36.994	289142.11	0.1664	P	1.2
5	☐	125.000	91.452	384760.83	0.2240	P	2.3
6	☐	250.000	167.260	543453.92	0.3043	P	0.5
7	☐	500.000	337.806	838060.14	0.4848	P	5.0
8	☐	1000.000	1106.695	2451549.08	1.2989	A	4.3
9	☐			306284.09	0.1781	P	1.6

$$y = 0.0011 * x + 0.1272$$

$$R = 0.9805$$

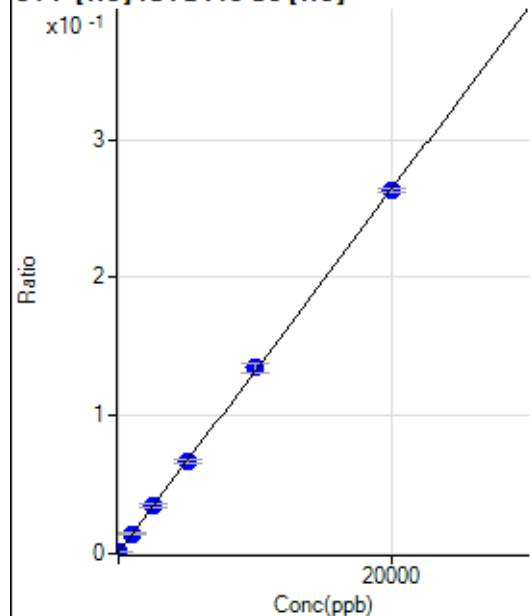
$$DL = 2.05$$

$$BEC = 120.1$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	5.950	52.78	0.0010	P	47.8
2	☐	0.000	-12.544	38.89	0.0007	P	11.5
3	☐	0.000	6.595	52.78	0.0010	P	56.6
4	☐	1000.000	1036.434	769.49	0.0145	P	15.4
5	☐	2500.000	2538.052	1852.95	0.0343	P	8.4
6	☐	5000.000	4976.684	3572.76	0.0664	P	4.3
7	☐	10000.000	10162.706	7290.91	0.1346	P	5.2
8	☐	20000.000	19917.898	14674.47	0.2628	P	1.1
9	☐			69.44	0.0013	P	38.3

$$y = 1.3151E-005 * x + 9.0546E-004$$

$$R = 1.0000$$

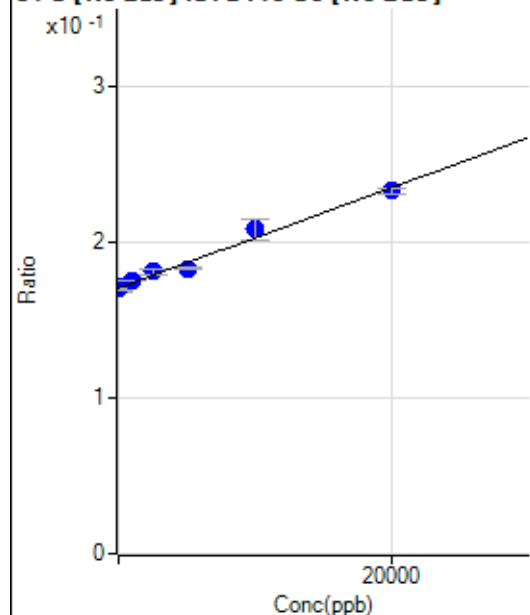
$$DL = 84.98$$

$$BEC = 68.85$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	451.063	293144.12	0.1718	P	0.9
2	☐	0.000	-261.800	295339.11	0.1695	P	2.2
3	☐	0.000	-189.263	294931.38	0.1698	P	0.7
4	☐	1000.000	1553.819	304792.48	0.1754	P	0.2
5	☐	2500.000	3177.628	310181.16	0.1806	P	2.2
6	☐	5000.000	3914.857	326735.16	0.1830	P	1.2
7	☐	10000.000	11649.911	358993.33	0.2078	P	6.8
8	☐	20000.000	19333.936	438844.65	0.2325	P	1.6
9	☐			283536.04	0.1649	P	1.1

$$y = 3.2153\text{E-}006 * x + 0.1704$$

$$R = 0.9924$$

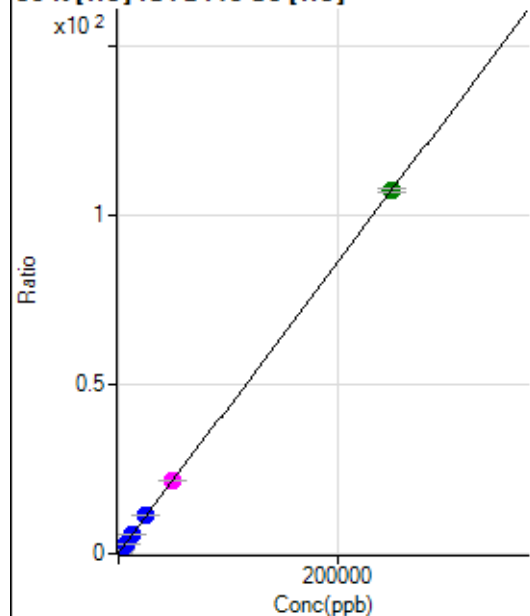
$$DL = 2006$$

$$BEC = 5.299\text{E}+04$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	12302.73	0.2300	P	1.1
2	☒	50.000					
3	☐	500.000	474.814	23116.15	0.4333	P	0.7
4	☐	2500.000	2597.937	71131.16	1.3423	P	2.4
5	☐	6250.000	6410.420	160832.47	2.9746	P	2.3
6	☐	12500.000	13054.278	313325.63	5.8192	P	1.8
7	☐	25000.000	26012.867	615963.45	11.3676	P	1.1
8	☐	50000.000	50289.388	1214931.26	21.7617	M	0.9
9	☐	250000.00	249808.18	5632601.34	107.1871	A	1.1

$$y = 4.2816\text{E-}004 * x + 0.2300$$

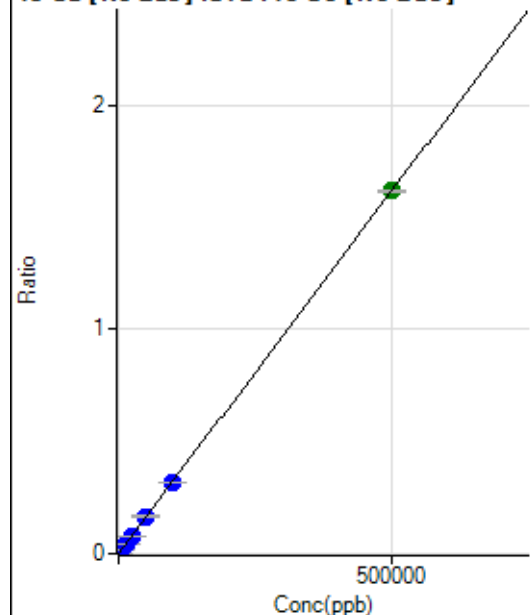
$$R = 1.0000$$

$$DL = 17.88$$

$$BEC = 537.1$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	177.78	0.0001	P	9.3
2	☒	50.000					
3	☐	500.000	463.657	2783.68	0.0016	P	0.9
4	☐	5000.000	5153.560	29121.66	0.0168	P	0.7
5	☐	12500.000	12589.076	70043.44	0.0408	P	2.3
6	☐	25000.000	24679.519	142585.10	0.0798	P	1.6
7	☐	50000.000	51596.400	288160.70	0.1668	P	6.7
8	☐	100000.00	97120.954	592424.65	0.3139	P	0.6
9	☐	500000.00	500428.46	2780320.01	1.6171	A	0.4

$$y = 3.2312\text{E-}006 * x + 1.0417\text{E-}004$$

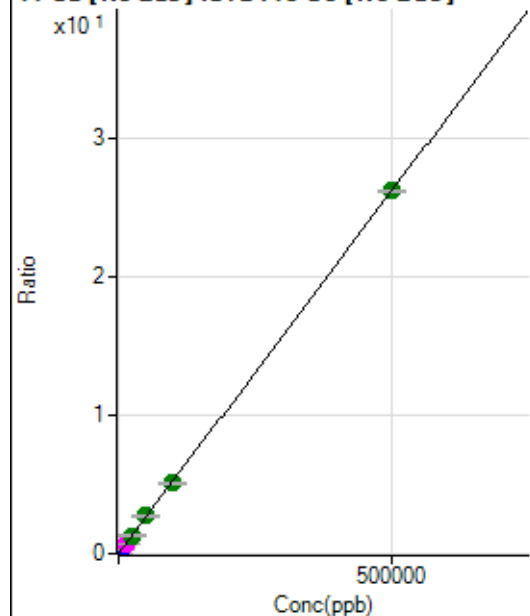
$$R = 1.0000$$

$$DL = 8.99$$

$$BEC = 32.24$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	12580.90	0.0074	P	5.2
2	☒	50.000					
3	☐	500.000	481.681	56715.29	0.0326	P	1.2
4	☐	5000.000	5257.668	492144.21	0.2832	P	0.7
5	☐	12500.000	12983.314	1182491.18	0.6884	M	1.4
6	☐	25000.000	24978.246	2352671.23	1.3176	A	2.8
7	☐	50000.000	52286.337	4750351.06	2.7501	A	6.9
8	☐	100000.00	97133.761	9629555.16	5.1027	A	1.5
9	☐	500000.00	500331.06	45136999.62	26.2530	A	0.7

$$y = 5.2457\text{E-}005 * x + 0.0074$$

$$R = 1.0000$$

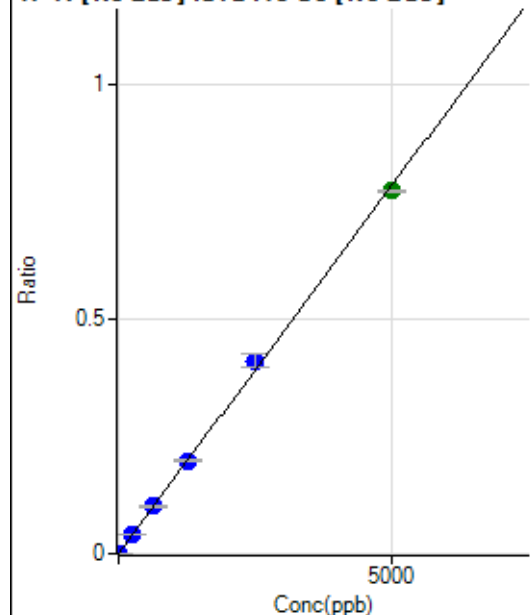
$$DL = 22.05$$

$$BEC = 140.6$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	233.34	0.0001	P	35.5
2	☐	0.500	0.514	377.79	0.0002	P	10.0
3	☐	5.000	5.093	1622.36	0.0009	P	11.5
4	☐	250.000	260.201	70973.23	0.0408	P	2.6
5	☐	625.000	644.344	173343.17	0.1009	P	2.5
6	☐	1250.000	1259.239	351974.99	0.1971	P	1.7
7	☐	2500.000	2622.600	708908.37	0.4104	P	6.5
8	☐	5000.000	4933.462	1456621.96	0.7718	A	0.8
9	☐			480.58	0.0003	P	6.2

$$y = 1.5642\text{E-}004 * x + 1.3665\text{E-}004$$

$$R = 0.9996$$

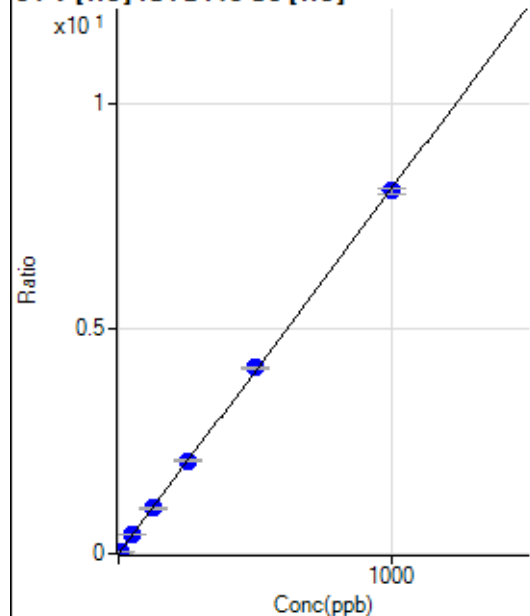
$$DL = 0.9292$$

$$BEC = 0.8736$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0004	P	76.6
2	☒	0.500					
3	☐	5.000	4.681	2049.06	0.0384	P	2.0
4	☐	50.000	51.995	22380.89	0.4224	P	2.6
5	☐	125.000	124.440	54625.03	1.0102	P	1.5
6	☐	250.000	253.720	110878.13	2.0594	P	2.0
7	☐	500.000	509.507	224066.01	4.1351	P	0.9
8	☐	1000.000	994.288	450495.66	8.0691	P	1.4
9	☐			144.45	0.0027	P	11.3

$$y = 0.0081 * x + 4.1723\text{E-}004$$

$$R = 0.9999$$

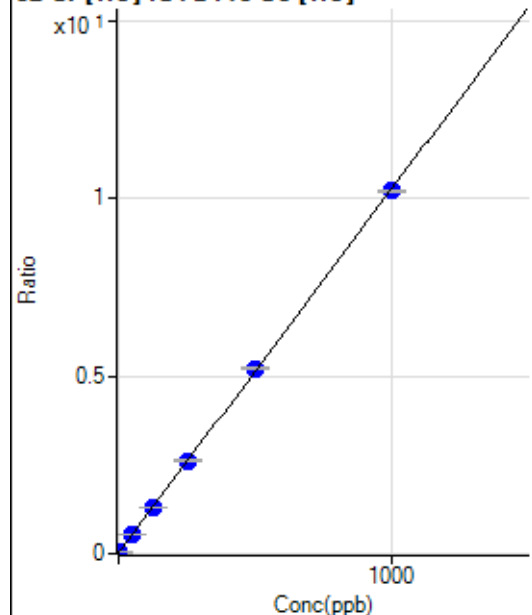
$$DL = 0.1181$$

$$BEC = 0.05141$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	1125.61	0.0210	P	6.0
2	☒	0.200					
3	☐	2.000	2.135	2286.87	0.0429	P	3.2
4	☐	50.000	51.579	29069.58	0.5486	P	2.4
5	☐	125.000	125.384	70478.04	1.3034	P	1.3
6	☐	250.000	252.572	140218.63	2.6043	P	1.8
7	☐	500.000	507.875	282612.42	5.2154	P	0.8
8	☐	1000.000	995.292	569485.30	10.2006	P	0.8
9	☐			10367.17	0.1973	P	1.1

$$y = 0.0102 * x + 0.0210$$

$$R = 1.0000$$

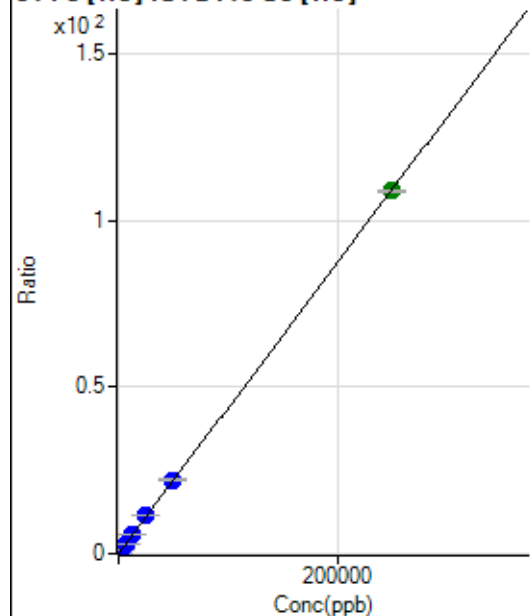
$$DL = 0.3678$$

$$BEC = 2.056$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	298.15	0.0056	P	7.0
2	☒	5.000					
3	☐	50.000	45.924	1364.90	0.0256	P	3.3
4	☐	2500.000	2629.079	61002.06	1.1511	P	2.5
5	☐	6250.000	6356.121	150070.81	2.7751	P	0.5
6	☐	12500.000	12875.312	302360.93	5.6158	P	1.4
7	☐	25000.000	26011.633	614455.94	11.3397	P	1.1
8	☐	50000.000	50796.399	1236020.46	22.1392	P	0.9
9	☐	250000.00	249716.84	5718441.62	108.8152	A	0.9

$$y = 4.3573E-004 * x + 0.0056$$

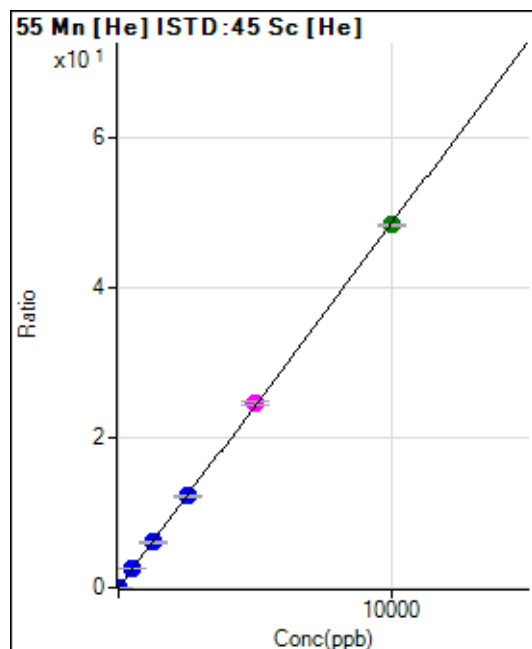
$$R = 1.0000$$

$$DL = 2.677$$

$$BEC = 12.8$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	68.89	0.0013	P	11.2
2	☒	0.100					
3	☐	1.000	0.926	308.90	0.0058	P	3.2
4	☐	500.000	516.814	133111.69	2.5118	P	1.5
5	☐	1250.000	1241.528	326172.35	6.0321	P	1.1
6	☐	2500.000	2518.452	658750.82	12.2349	P	1.6
7	☐	5000.000	5066.988	1333689.81	24.6146	M	1.6
8	☐	10000.000	9962.111	2701892.63	48.3930	A	0.7
9	☐			2383.56	0.0454	P	2.1

$$y = 0.0049 * x + 0.0013$$

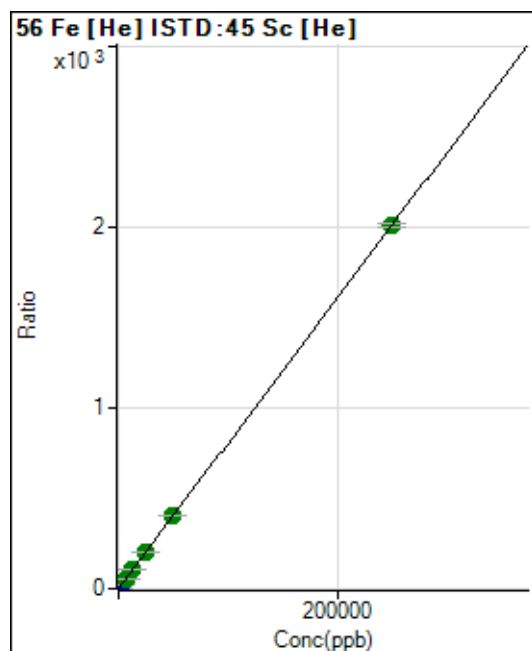
$$R = 1.0000$$

$$DL = 0.089$$

$$BEC = 0.2653$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2229.85	0.0417	P	2.6
2	☒	5.000					
3	☐	50.000	49.781	23567.83	0.4418	P	2.9
4	☐	2500.000	2603.470	1111215.45	20.9697	P	2.3
5	☐	6250.000	6373.867	2772715.02	51.2781	A	1.4
6	☐	12500.000	12829.813	5555174.37	103.1744	A	1.3
7	☐	25000.000	25552.375	11132641.34	205.4450	A	0.8
8	☐	50000.000	49869.348	22384506.29	400.9175	A	0.6
9	☐	250000.00	249950.27	105586026.4	2,009.272	A	1.2

$$y = 0.0080 * x + 0.0417$$

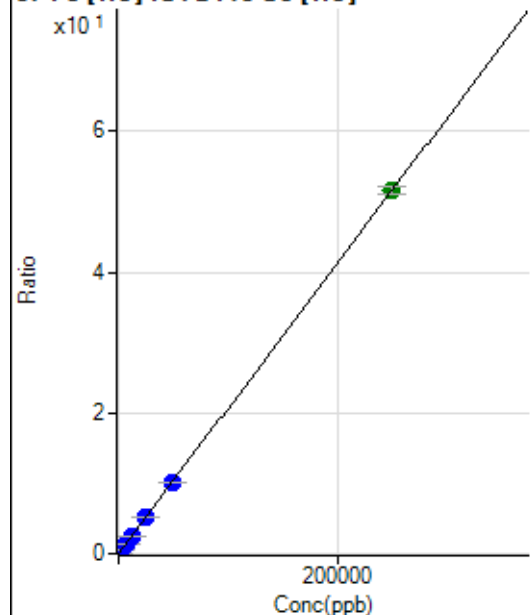
$$R = 1.0000$$

$$DL = 0.3971$$

$$BEC = 5.184$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	59.26	0.0011	P	22.4
2	☒	5.000					
3	☐	50.000	51.928	629.66	0.0118	P	4.6
4	☐	2500.000	2544.966	27842.28	0.5252	P	1.7
5	☐	6250.000	6128.588	68311.30	1.2633	P	1.2
6	☐	12500.000	12471.696	138357.05	2.5697	P	0.9
7	☐	25000.000	24952.590	278550.61	5.1402	P	0.8
8	☐	50000.000	48799.904	561181.07	10.0516	P	0.5
9	☐	250000.00	250248.76	2708353.48	51.5406	A	2.0

$$y = 2.0595E-004 * x + 0.0011$$

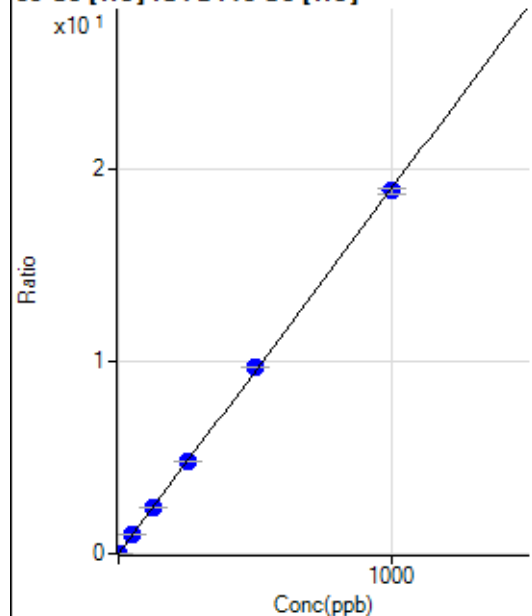
$$R = 1.0000$$

$$DL = 3.602$$

$$BEC = 5.368$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	100.00	0.0019	P	2.8
2	☒	0.100					
3	☐	1.000	1.006	1116.72	0.0210	P	9.5
4	☐	50.000	52.359	52754.09	0.9954	P	1.5
5	☐	125.000	126.368	129773.90	2.3999	P	0.4
6	☐	250.000	252.826	258419.37	4.7996	P	1.0
7	☐	500.000	510.348	524881.74	9.6864	P	0.8
8	☐	1000.000	993.831	1052960.37	18.8612	P	1.5
9	☐			1714.57	0.0326	P	5.8

$$y = 0.0190 * x + 0.0019$$

$$R = 0.9999$$

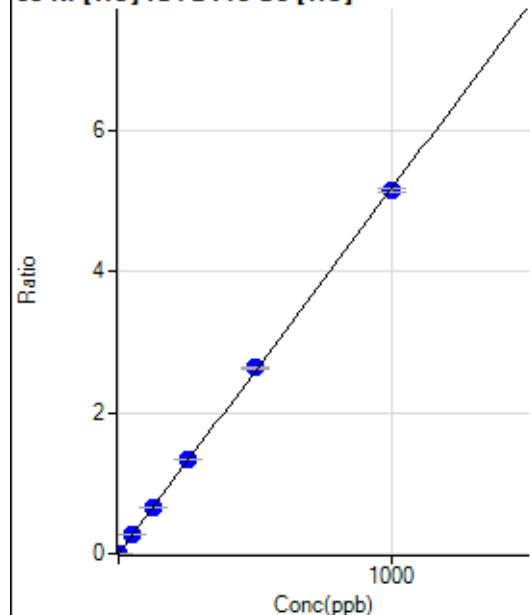
$$DL = 0.008402$$

$$BEC = 0.0985$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	76.67	0.0014	P	11.7
2	☒	0.100					
3	☐	1.000	1.095	378.90	0.0071	P	9.4
4	☐	50.000	54.111	14902.34	0.2812	P	2.6
5	☐	125.000	127.868	35830.63	0.6626	P	1.1
6	☐	250.000	256.042	71362.32	1.3254	P	0.3
7	☐	500.000	508.268	142489.94	2.6296	P	0.9
8	☐	1000.000	993.791	286966.86	5.1402	P	0.9
9	☐			3205.94	0.0610	P	4.3

$$y = 0.0052 * x + 0.0014$$

$$R = 0.9999$$

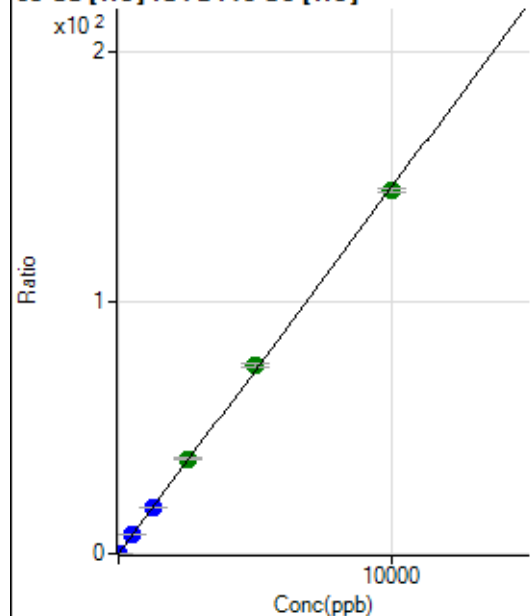
$$DL = 0.09758$$

$$BEC = 0.2769$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	376.68	0.0070	P	11.9
2	☒	0.200					
3	☐	2.000	2.243	2121.30	0.0398	P	3.5
4	☐	500.000	530.265	410463.53	7.7451	P	1.6
5	☐	1250.000	1280.496	1010847.17	18.6932	P	0.5
6	☐	2500.000	2591.674	2036692.47	37.8271	A	0.7
7	☐	5000.000	5139.419	4064090.25	75.0060	A	1.4
8	☐	10000.000	9902.047	8067411.82	144.5065	A	1.2
9	☐			4306.25	0.0819	P	5.3

$$y = 0.0146 * x + 0.0070$$

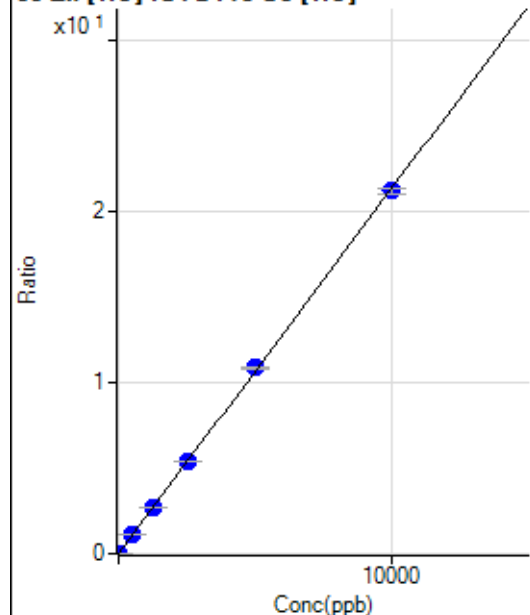
$$R = 0.9998$$

$$DL = 0.1723$$

$$BEC = 0.4826$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	144.45	0.0027	P	9.9
2	☒	0.200					
3	☐	2.000	1.876	356.68	0.0067	P	15.1
4	☐	500.000	538.950	60963.48	1.1504	P	2.0
5	☐	1250.000	1279.158	147442.61	2.7267	P	1.3
6	☐	2500.000	2526.223	289794.06	5.3824	P	1.4
7	☐	5000.000	5095.863	588134.67	10.8545	P	1.4
8	☐	10000.000	9939.921	1181868.63	21.1700	P	1.3
9	☐			9018.50	0.1716	P	2.2

$$y = 0.0021 * x + 0.0027$$

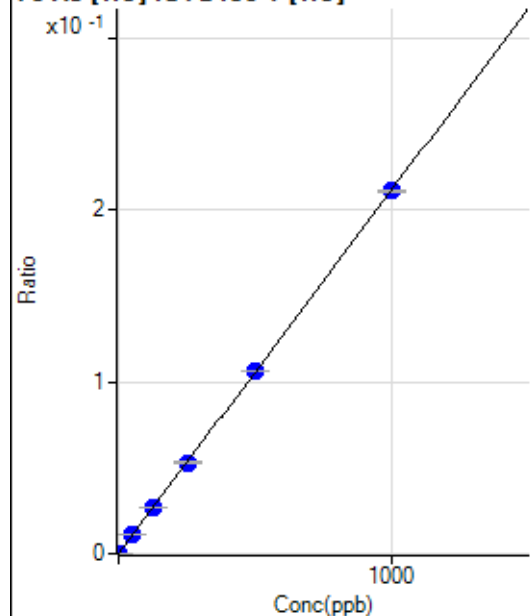
$$R = 0.9999$$

$$DL = 0.3759$$

$$BEC = 1.268$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	14.67	0.0000	P	22.3
2	☒	0.100					
3	☐	1.000	0.903	87.68	0.0002	P	6.2
4	☐	50.000	51.027	4098.35	0.0108	P	0.8
5	☐	125.000	125.087	10120.98	0.0265	P	1.2
6	☐	250.000	249.757	20302.89	0.0529	P	1.5
7	☐	500.000	503.850	41304.80	0.1066	P	0.4
8	☐	1000.000	998.074	83710.32	0.2111	P	0.8
9	☐			39.34	0.0001	P	34.6

$$y = 2.1147E-004 * x + 3.8672E-005$$

$$R = 1.0000$$

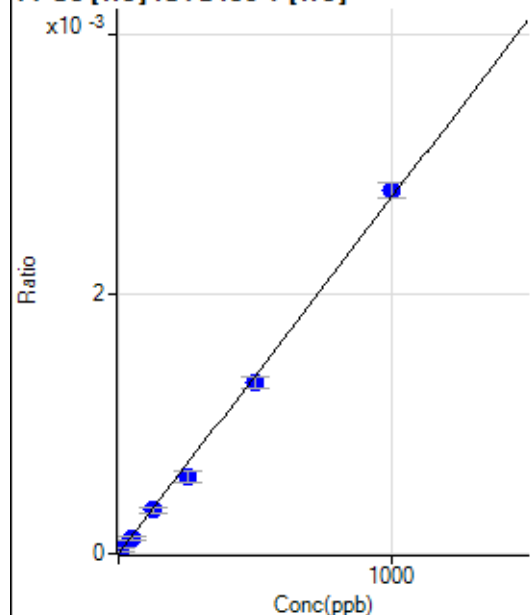
$$DL = 0.1224$$

$$BEC = 0.1829$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☒	0.500					
3	☐	5.000	10.602	11.11	0.0000	P	62.4
4	☐	50.000	42.804	44.45	0.0001	P	29.6
5	☐	125.000	122.112	127.78	0.0003	P	12.5
6	☐	250.000	214.659	225.56	0.0006	P	16.3
7	☐	500.000	481.552	511.12	0.0013	P	7.0
8	☐	1000.000	1018.752	1106.72	0.0028	P	4.2
9	☐			0.00	0.0000	P	

$$y = 2.7392\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9990$$

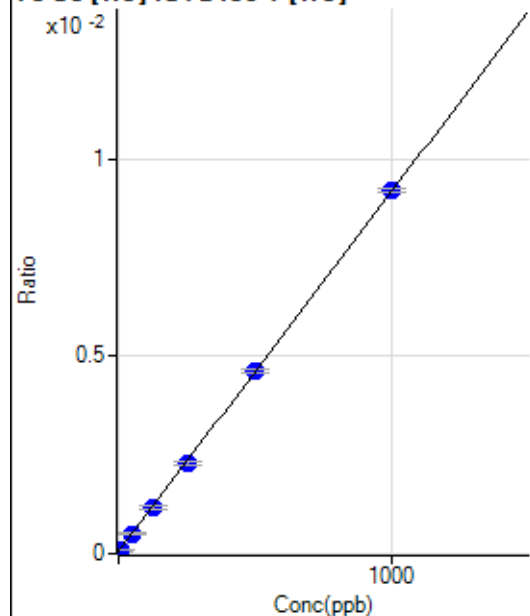
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.00	0.0001	P	16.8
2	☒	0.500					
3	☐	5.000	5.796	42.33	0.0001	P	7.3
4	☐	50.000	49.394	192.35	0.0005	P	5.8
5	☐	125.000	122.077	447.39	0.0012	P	8.2
6	☐	250.000	244.636	879.12	0.0023	P	3.5
7	☐	500.000	499.458	1787.29	0.0046	P	1.9
8	☐	1000.000	1002.003	3646.51	0.0092	P	0.9
9	☐			22.33	0.0001	P	22.3

$$y = 9.1183\text{E-}006 * x + 5.7995\text{E-}005$$

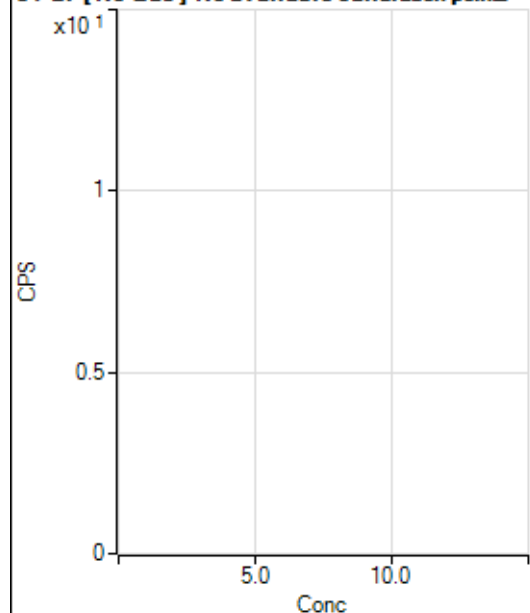
$$R = 1.0000$$

$$DL = 3.201$$

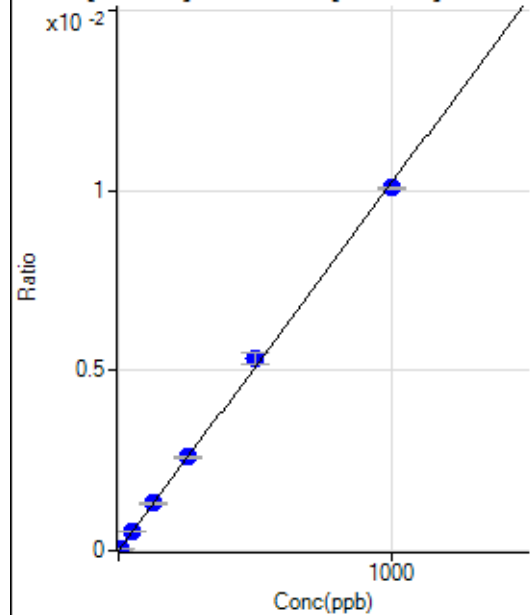
$$BEC = 6.36$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1898.76		P	12.5
2	☐			1955.48		P	4.9
3	☐			1855.38		P	11.1
4	☐			1775.27		P	5.1
5	☐			1872.06		P	8.8
6	☐			1768.60		P	1.4
7	☐			1818.65		P	2.5
8	☐			1691.86		P	10.7
9	☐			1962.16		P	12.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.23	0.0000	P	2615.
2	☒	0.500					
3	☐	5.000	3.831	146.05	0.0000	P	9.0
4	☐	50.000	50.883	1932.58	0.0005	P	2.9
5	☐	125.000	129.307	4885.03	0.0013	P	2.4
6	☐	250.000	255.047	9994.53	0.0026	P	1.8
7	☐	500.000	522.925	20018.03	0.0053	P	5.1
8	☐	1000.000	986.699	41162.08	0.0101	P	0.8
9	☐			2.55	0.0000	P	1071.

$$y = 1.0218\text{E-}005 * x + 3.3855\text{E-}007$$

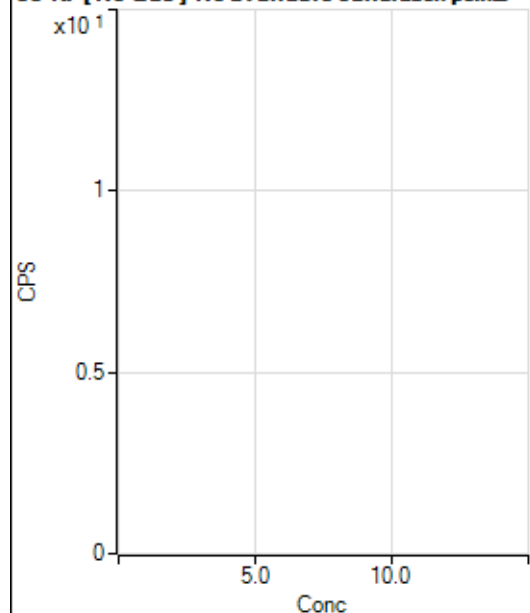
$$R = 0.9996$$

$$DL = 2.6$$

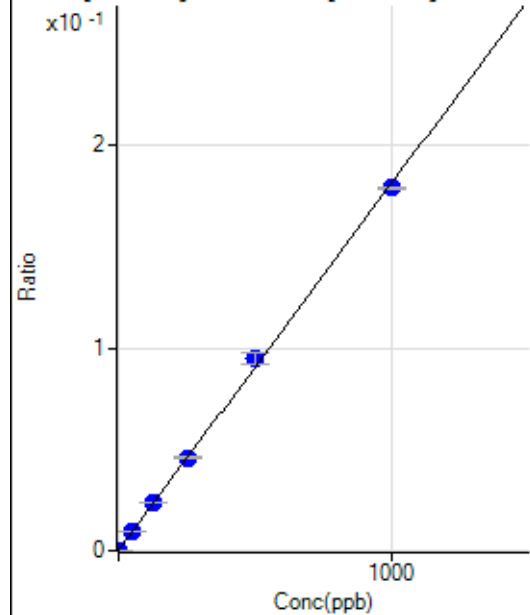
$$BEC = 0.03313$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			355.57		P	3.9
2	☐			417.79		P	4.7
3	☐			370.01		P	6.3
4	☐			365.56		P	12.9
5	☐			393.34		P	3.7
6	☐			375.57		P	11.9
7	☐			366.68		P	2.4
8	☐			391.12		P	11.9
9	☐			360.01		P	5.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	602.81	0.0002	P	7.5
2	☐	0.100	0.061	650.04	0.0002	P	14.2
3	☐	1.000	0.956	1241.76	0.0003	P	2.6
4	☐	50.000	53.050	36261.60	0.0098	P	2.2
5	☐	125.000	130.106	87652.07	0.0237	P	1.3
6	☐	250.000	252.420	175757.15	0.0458	P	1.8
7	☐	500.000	521.376	353919.26	0.0945	P	5.9
8	☐	1000.000	987.916	730431.21	0.1789	P	0.7
9	☐			4450.83	0.0012	P	1.3

$$y = 1.8093E-004 * x + 1.6277E-004$$

$$R = 0.9997$$

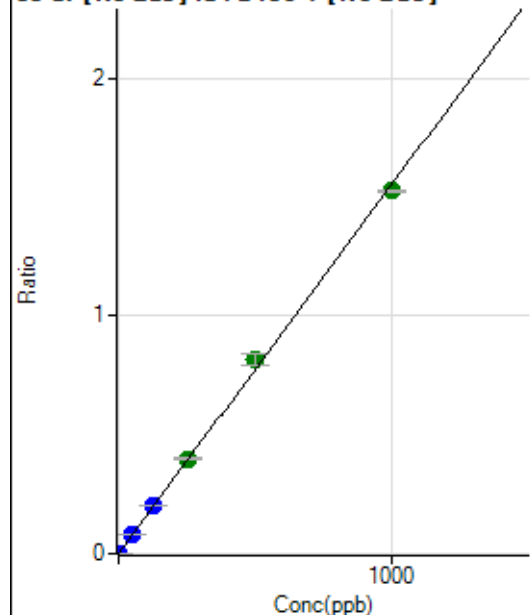
$$DL = 0.2015$$

$$BEC = 0.8996$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	369.46	0.0001	P	11.9
2	☐	0.100	0.104	975.06	0.0003	P	2.3
3	☐	1.000	1.042	6346.05	0.0017	P	5.0
4	☐	50.000	53.327	307456.49	0.0828	P	0.6
5	☐	125.000	132.215	758149.49	0.2051	P	0.8
6	☐	250.000	257.236	1529559.86	0.3989	A	0.8
7	☐	500.000	527.291	3062160.25	0.8175	A	5.5
8	☐	1000.000	983.477	6225012.81	1.5247	A	0.3
9	☐			33966.90	0.0092	P	1.3

$$y = 0.0016 * x + 9.9767E-005$$

$$R = 0.9994$$

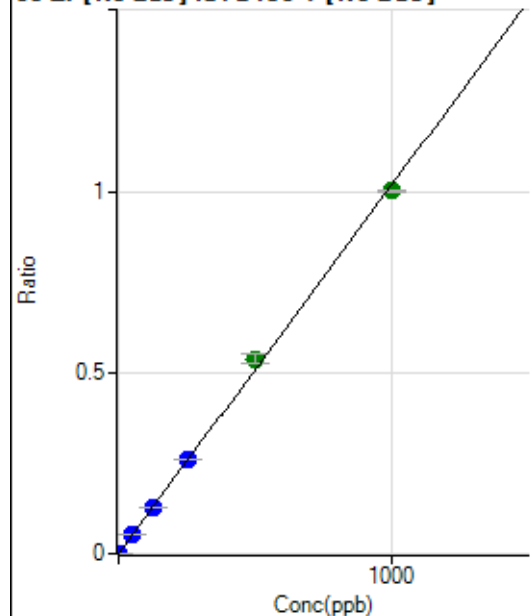
$$DL = 0.02304$$

$$BEC = 0.06436$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	163.89	0.0000	P	33.3
2	☐	0.100	0.105	563.92	0.0002	P	13.2
3	☐	1.000	0.957	3764.50	0.0010	P	8.7
4	☐	50.000	51.605	195073.58	0.0525	P	0.9
5	☐	125.000	126.542	475932.67	0.1287	P	0.6
6	☐	250.000	253.848	989965.19	0.2581	P	0.3
7	☐	500.000	528.067	2011526.82	0.5370	A	5.2
8	☐	1000.000	984.732	4087956.64	1.0013	A	0.8
9	☐			1269.54	0.0003	P	8.0

$$y = 0.0010 * x + 4.4232E-005$$

$$R = 0.9994$$

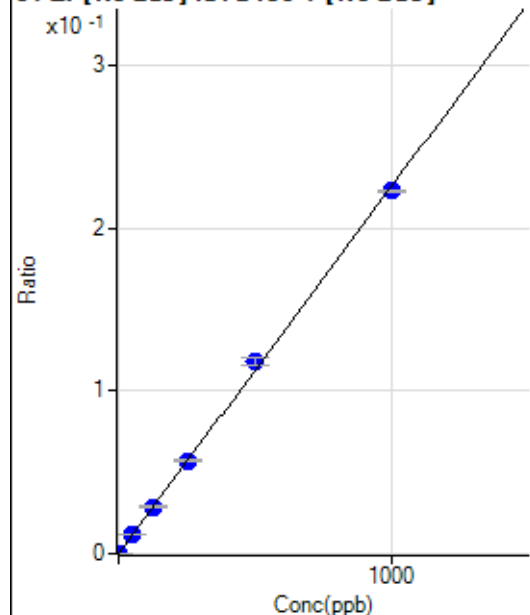
$$DL = 0.04342$$

$$BEC = 0.0435$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	44.2
2	☐	0.100	0.135	136.12	0.0000	P	9.4
3	☐	1.000	1.023	875.05	0.0002	P	14.2
4	☐	50.000	52.116	43643.98	0.0117	P	1.6
5	☐	125.000	128.268	106843.79	0.0289	P	3.1
6	☐	250.000	253.053	218664.57	0.0570	P	2.0
7	☐	500.000	521.443	440304.30	0.1175	P	4.1
8	☐	1000.000	988.001	908904.24	0.2226	P	0.4
9	☐			280.57	0.0001	P	21.5

$$y = 2.2531\text{E-}004 * x + 6.0185\text{E-}006$$

$$R = 0.9997$$

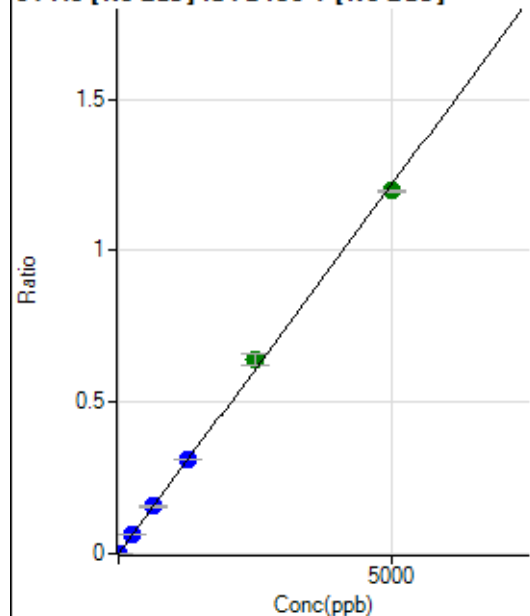
$$DL = 0.03545$$

$$BEC = 0.02671$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	80.56	0.0000	P	32.7
2	☐	0.500	0.427	469.46	0.0001	P	10.0
3	☐	5.000	4.692	4303.56	0.0012	P	3.3
4	☐	250.000	262.347	237226.64	0.0639	P	0.9
5	☐	625.000	645.234	580459.13	0.1570	P	2.3
6	☐	1250.000	1282.157	1196519.40	0.3120	P	1.1
7	☐	2500.000	2639.373	2405308.00	0.6423	A	6.2
8	☐	5000.000	4919.128	4887083.31	1.1970	A	0.9
9	☐			2553.09	0.0007	P	5.1

$$y = 2.4333\text{E-}004 * x + 2.1725\text{E-}005$$

$$R = 0.9994$$

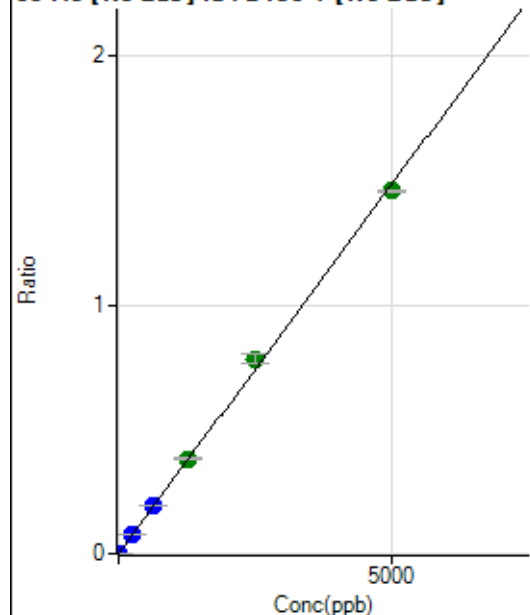
$$DL = 0.08756$$

$$BEC = 0.08928$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	116.1
2	☐	0.500	0.483	561.14	0.0001	P	23.1
3	☐	5.000	4.880	5378.96	0.0015	P	3.4
4	☐	250.000	266.838	293963.30	0.0791	P	1.6
5	☐	625.000	648.508	710914.49	0.1923	P	2.4
6	☐	1250.000	1280.244	1455873.53	0.3797	A	2.3
7	☐	2500.000	2644.173	2937285.48	0.7841	A	5.4
8	☐	5000.000	4916.572	5952757.12	1.4580	A	0.6
9	☐			4059.03	0.0011	P	6.8

$$y = 2.9655\text{E-}004 * x + 6.7980\text{E-}006$$

$$R = 0.9994$$

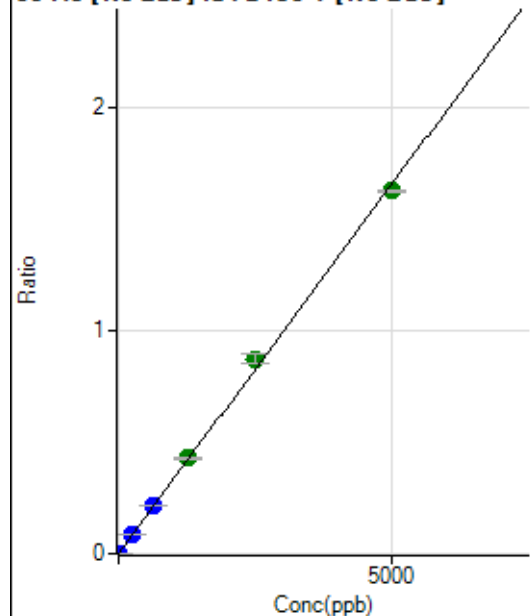
$$DL = 0.07988$$

$$BEC = 0.02292$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	83.34	0.0000	P	10.7
2	☐	0.500	0.537	750.04	0.0002	P	12.4
3	☐	5.000	5.031	6240.47	0.0017	P	0.2
4	☐	250.000	264.020	324551.77	0.0874	P	1.1
5	☐	625.000	644.799	788778.05	0.2133	P	0.9
6	☐	1250.000	1291.918	1639073.72	0.4274	A	0.8
7	☐	2500.000	2640.626	3272495.62	0.8736	A	5.4
8	☐	5000.000	4916.032	6640318.38	1.6264	A	0.6
9	☐			4406.38	0.0012	P	5.4

$$y = 3.3082\text{E-}004 * x + 2.2523\text{E-}005$$

$$R = 0.9994$$

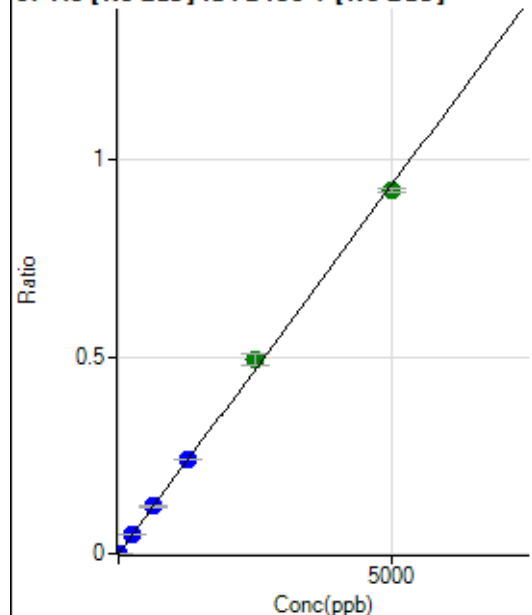
$$DL = 0.02176$$

$$BEC = 0.06808$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.44	0.0000	P	89.0
2	☐	0.500	0.447	333.34	0.0001	P	12.8
3	☐	5.000	4.963	3458.87	0.0009	P	5.7
4	☐	250.000	261.652	182110.19	0.0490	P	0.6
5	☐	625.000	642.441	444972.29	0.1204	P	1.5
6	☐	1250.000	1276.612	917166.64	0.2392	P	0.8
7	☐	2500.000	2634.140	1847820.11	0.4935	A	6.7
8	☐	5000.000	4923.515	3766139.19	0.9224	A	1.2
9	☐			2325.26	0.0006	P	4.4

$$y = 1.8734\text{E-}004 * x + 5.2685\text{E-}006$$

$$R = 0.9995$$

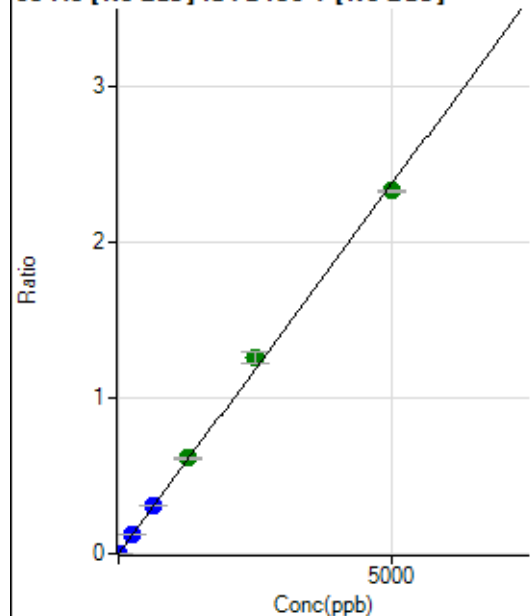
$$DL = 0.07509$$

$$BEC = 0.02812$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33.33	0.0000	P	66.2
2	☐	0.500	0.502	925.06	0.0002	P	19.2
3	☐	5.000	5.000	8808.60	0.0024	P	0.8
4	☐	250.000	261.965	461690.55	0.1243	P	1.4
5	☐	625.000	647.644	1135854.03	0.3073	P	2.0
6	☐	1250.000	1294.944	2355929.20	0.6144	A	1.0
7	☐	2500.000	2646.668	4702982.66	1.2556	A	5.7
8	☐	5000.000	4912.001	9514572.78	2.3304	A	0.7
9	☐			5926.46	0.0016	P	6.5

$$y = 4.7442\text{E-}004 * x + 9.0268\text{E-}006$$

$$R = 0.9993$$

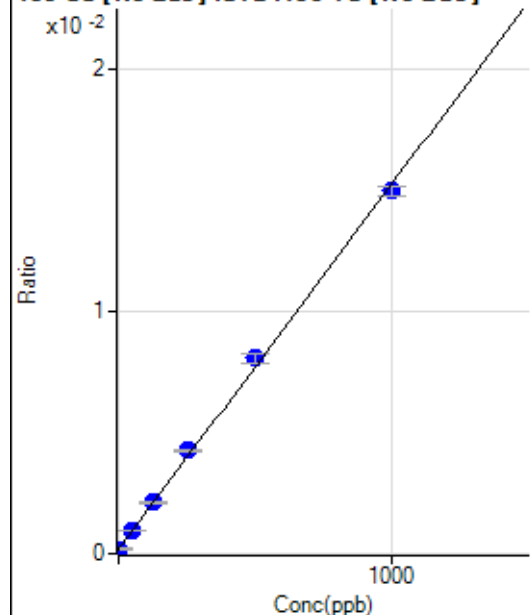
$$DL = 0.0378$$

$$BEC = 0.01903$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	722.26	0.0002	P	6.8
2	☒	0.100					
3	☐	1.000	0.586	752.82	0.0002	P	15.1
4	☐	50.000	52.066	3753.37	0.0010	P	1.2
5	☐	125.000	128.707	8380.56	0.0021	P	3.2
6	☐	250.000	269.973	17094.29	0.0043	P	1.5
7	☐	500.000	524.335	32299.52	0.0081	P	5.2
8	☐	1000.000	982.273	65343.83	0.0150	P	3.0
9	☐			700.04	0.0002	P	19.2

$$y = 1.5077\text{E-}005 * x + 1.8330\text{E-}004$$

$$R = 0.9993$$

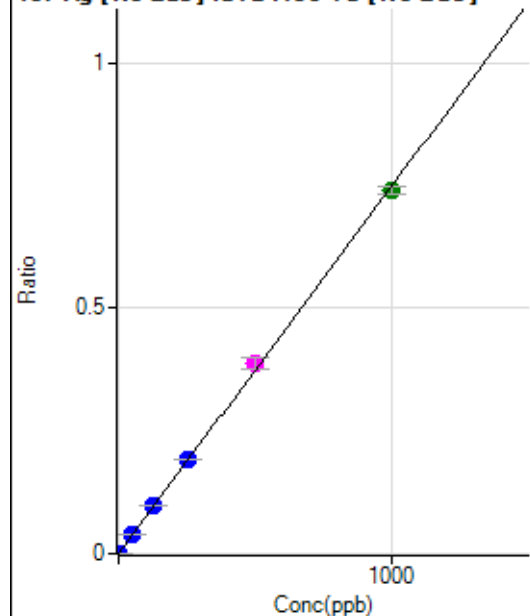
$$DL = 2.468$$

$$BEC = 12.16$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	38.89	0.0000	P	11.9
2	☒	0.100					
3	☐	1.000	0.988	2936.50	0.0007	P	4.1
4	☐	50.000	53.216	154210.36	0.0398	P	1.9
5	☐	125.000	128.594	379309.19	0.0961	P	0.4
6	☐	250.000	256.967	771939.64	0.1921	P	0.6
7	☐	500.000	519.100	1549198.30	0.3880	M	5.6
8	☐	1000.000	988.098	3219207.97	0.7386	A	2.2
9	☐			988.96	0.0003	P	18.4

$$y = 7.4748\text{E-}004 * x + 9.8665\text{E-}006$$

$$R = 0.9997$$

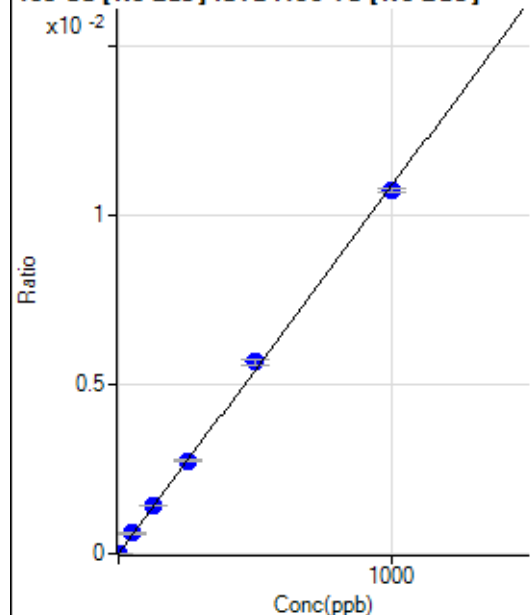
$$DL = 0.004726$$

$$BEC = 0.0132$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.56	0.0000	P	114.4
2	☒	0.100					
3	☐	1.000	1.011	48.61	0.0000	P	11.4
4	☐	50.000	55.171	2330.78	0.0006	P	4.9
5	☐	125.000	129.790	5576.19	0.0014	P	0.2
6	☐	250.000	253.110	11069.81	0.0028	P	2.5
7	☐	500.000	522.498	22716.04	0.0057	P	3.1
8	☐	1000.000	987.116	46809.60	0.0107	P	1.0
9	☐			59.72	0.0000	P	22.1

$$y = 1.0878\text{E-}005 * x + 1.4054\text{E-}006$$

$$R = 0.9996$$

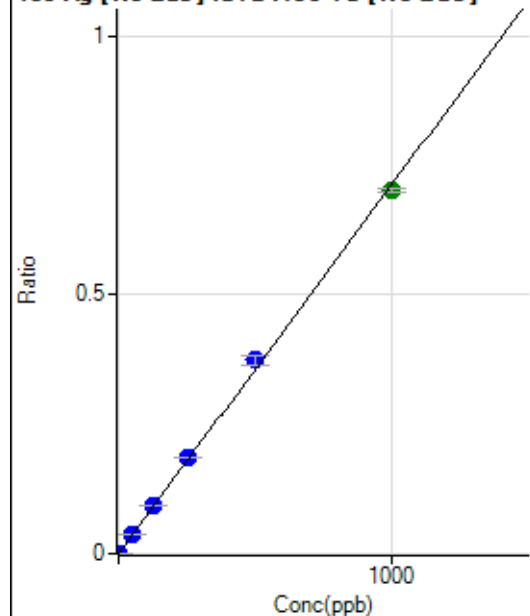
$$DL = 0.4435$$

$$BEC = 0.1292$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	32.9
2	☒	0.100					
3	☐	1.000	0.989	2783.69	0.0007	P	5.5
4	☐	50.000	53.480	147495.16	0.0381	P	1.0
5	☐	125.000	129.626	363865.53	0.0922	P	0.4
6	☐	250.000	259.317	741363.75	0.1845	P	0.7
7	☐	500.000	525.484	1492634.84	0.3738	P	5.3
8	☐	1000.000	984.177	3051694.56	0.7001	A	1.1
9	☐			861.16	0.0002	P	5.2

$$y = 7.1138\text{E-}004 * x + 6.3382\text{E-}006$$

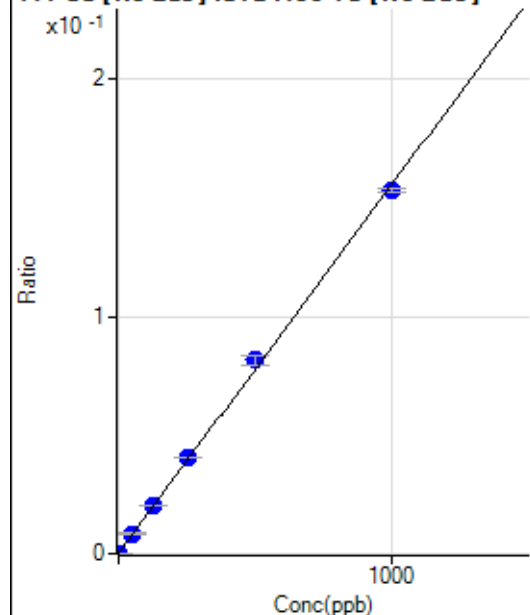
$$R = 0.9995$$

$$DL = 0.008791$$

$$BEC = 0.00891$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	561.42	0.0001	P	7.6
2	☒	0.100					
3	☐	1.000	0.883	1095.75	0.0003	P	9.9
4	☐	50.000	53.807	32913.42	0.0085	P	0.9
5	☐	125.000	129.426	79793.91	0.0202	P	0.6
6	☐	250.000	260.594	163051.34	0.0406	P	1.5
7	☐	500.000	525.193	325922.55	0.0816	P	5.4
8	☐	1000.000	984.011	666098.89	0.1528	P	1.0
9	☐			774.62	0.0002	P	7.9

$$y = 1.5515\text{E-}004 * x + 1.4246\text{E-}004$$

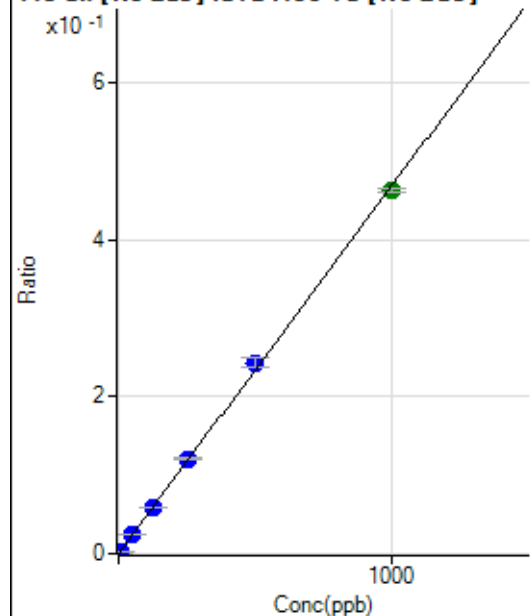
$$R = 0.9995$$

$$DL = 0.2086$$

$$BEC = 0.9182$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	161.12	0.0000	P	21.4
2	☐	0.500	0.519	1111.19	0.0003	P	9.0
3	☐	5.000	4.870	9094.89	0.0023	P	3.8
4	☐	50.000	53.241	96659.93	0.0249	P	2.9
5	☐	125.000	127.111	234725.41	0.0595	P	0.3
6	☐	250.000	258.246	485526.05	0.1208	P	1.0
7	☐	500.000	520.530	972417.73	0.2435	P	4.6
8	☐	1000.000	987.248	2012724.26	0.4618	A	1.1
9	☐			1902.97	0.0005	P	0.8

$$y = 4.6768\text{E-}004 * x + 4.0920\text{E-}005$$

$$R = 0.9997$$

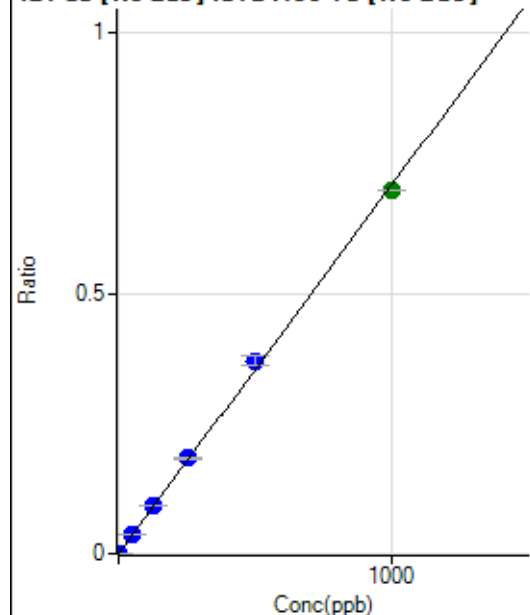
$$DL = 0.05627$$

$$BEC = 0.08749$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.55	0.0000	P	68.4
2	☒	0.200					
3	☐	2.000	1.942	5417.89	0.0014	P	3.8
4	☐	50.000	53.122	145645.22	0.0376	P	1.5
5	☐	125.000	128.858	359608.60	0.0911	P	0.6
6	☐	250.000	259.793	738366.85	0.1837	P	1.3
7	☐	500.000	524.297	1480827.37	0.3708	P	4.8
8	☐	1000.000	984.765	3035880.34	0.6964	A	0.2
9	☐			2672.55	0.0007	P	6.4

$$y = 7.0722\text{E-}004 * x + 7.7517\text{E-}006$$

$$R = 0.9995$$

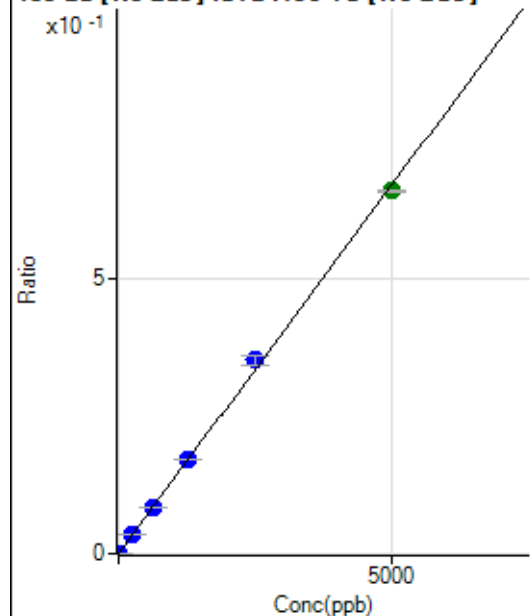
$$DL = 0.0225$$

$$BEC = 0.01096$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	55.56	0.0000	P	22.5
2	☒	1.000					
3	☐	10.000	9.643	5131.67	0.0013	P	1.6
4	☐	250.000	266.525	138679.84	0.0358	P	0.3
5	☐	625.000	637.595	337608.20	0.0856	P	0.5
6	☐	1250.000	1284.521	692684.86	0.1724	P	0.3
7	☐	2500.000	2628.704	1408319.37	0.3527	P	5.5
8	☐	5000.000	4924.618	2880256.94	0.6608	A	0.8
9	☐			5240.05	0.0013	P	3.6

$$y = 1.3418\text{E-}004 * x + 1.4091\text{E-}005$$

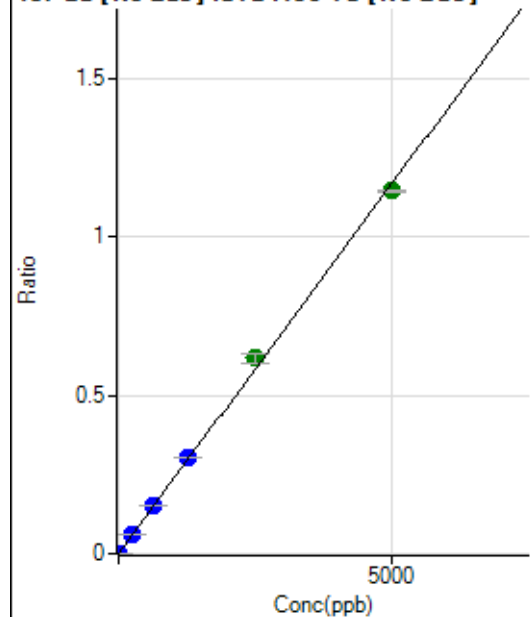
$$R = 0.9995$$

$$DL = 0.07077$$

$$BEC = 0.105$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	55.55	0.0000	P	38.2
2	☒	1.000					
3	☐	10.000	10.065	9256.18	0.0024	P	1.1
4	☐	250.000	270.197	244017.98	0.0630	P	1.2
5	☐	625.000	647.890	595540.84	0.1509	P	0.7
6	☐	1250.000	1303.926	1220702.16	0.3038	P	0.1
7	☐	2500.000	2646.247	2461832.33	0.6164	A	4.9
8	☐	5000.000	4909.524	4985100.68	1.1436	A	0.7
9	☐			8950.40	0.0023	P	1.0

$$y = 2.3294E-004 * x + 1.4117E-005$$

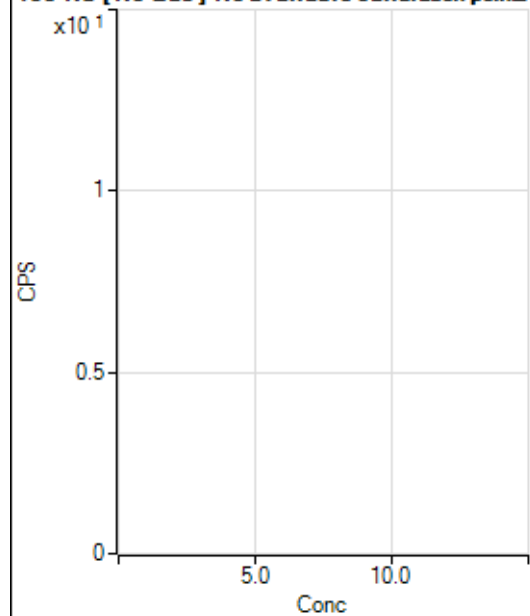
$$R = 0.9993$$

$$DL = 0.06942$$

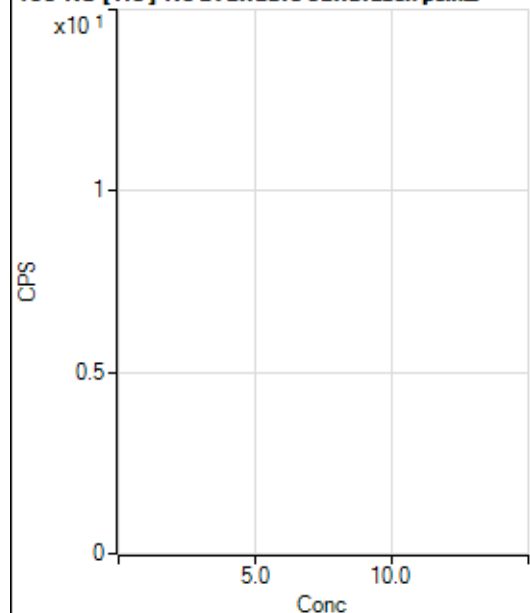
$$BEC = 0.0606$$

Weight: <None>

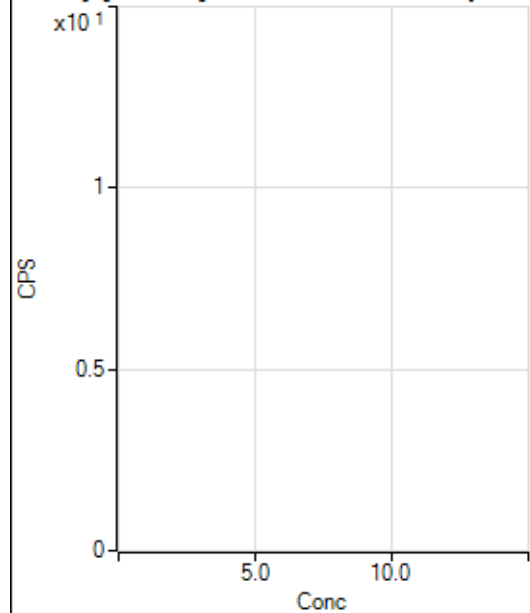
Min Conc: 0

150 Nd [No Gas] No available calibration points

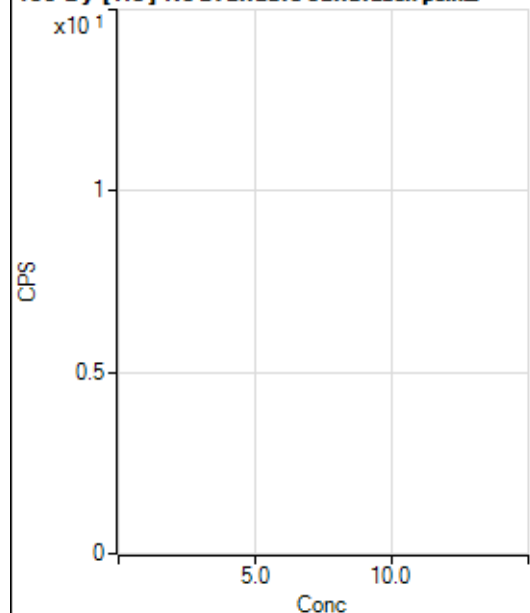
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6.67		P	100.0
2	☐			4.45		P	86.6
3	☐			2.22		P	173.2
4	☐			4.44		P	173.2
5	☐			20.00		P	66.7
6	☐			15.55		P	24.8
7	☐			51.11		P	39.9
8	☐			95.56		P	14.5
9	☐			13.33		P	132.3

150 Nd [He] No available calibration points

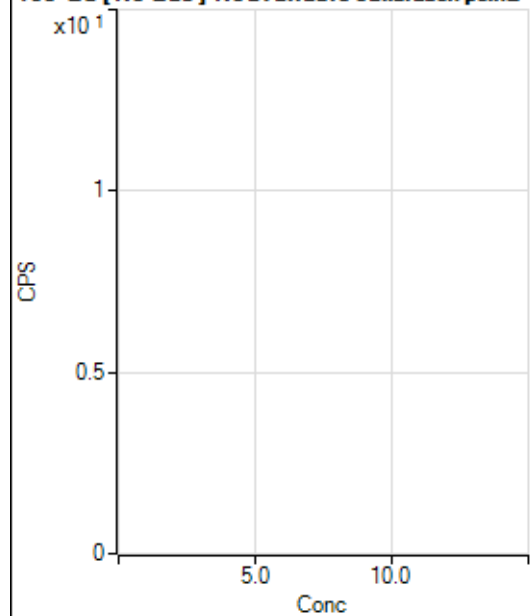
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			0.00		P	
4	☐			1.11		P	173.2
5	☐			0.00		P	
6	☐			1.11		P	173.2
7	☐			6.67		P	100.0
8	☐			8.89		P	108.3
9	☐			3.33		P	173.2

156 Dy [No Gas] No available calibration points

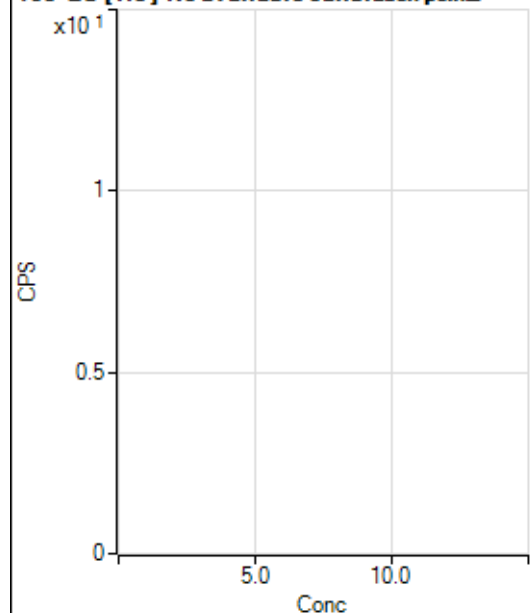
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5.55		P	86.6
2	☐			8.33		P	173.2
3	☐			5.55		P	86.6
4	☐			22.22		P	43.3
5	☐			25.00		P	115.5
6	☐			25.00		P	33.3
7	☐			50.00		P	60.1
8	☐			58.34		P	37.8
9	☐			197.23		P	14.8

156 Dy [He] No available calibration points

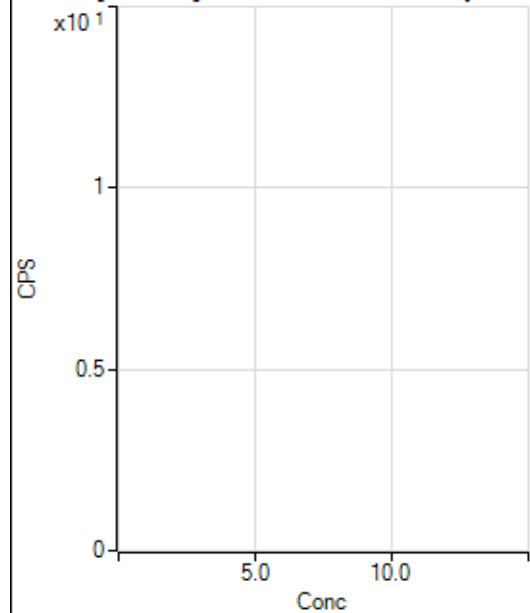
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	173.2
2	☐			3.33		P	100.1
3	☐			0.00		P	
4	☐			2.22		P	173.2
5	☐			5.55		P	69.3
6	☐			5.56		P	34.7
7	☐			14.44		P	70.5
8	☐			21.11		P	32.9
9	☐			84.44		P	22.8

160 Gd [No Gas] Noavailable calibration poin_

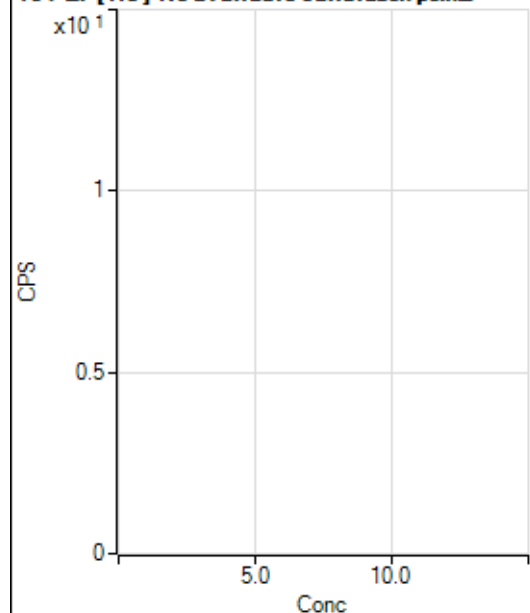
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			25.00		P	57.7
2	☐			16.67		P	100.0
3	☐			30.56		P	87.7
4	☐			25.00		P	100.0
5	☐			33.33		P	25.0
6	☐			25.00		P	33.3
7	☐			52.78		P	63.8
8	☐			83.33		P	45.8
9	☐			277.79		P	17.6

160 Gd [He] No available calibration points

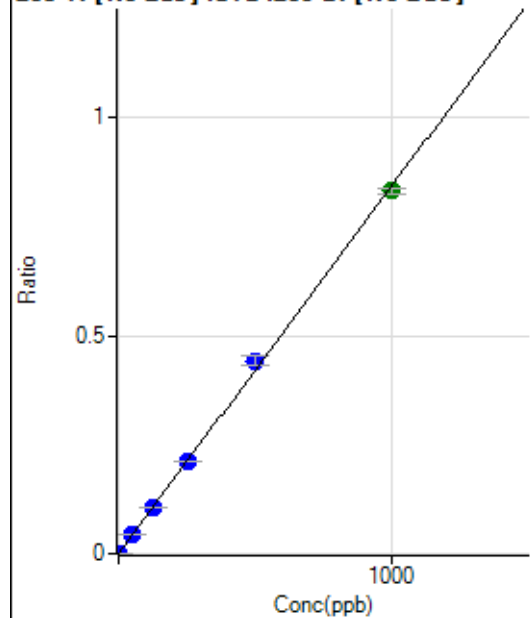
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	75.5
2	☐			8.89		P	21.6
3	☐			7.78		P	65.5
4	☐			5.56		P	91.6
5	☐			8.89		P	86.6
6	☐			11.11		P	45.8
7	☐			21.11		P	18.2
8	☐			25.56		P	30.1
9	☐			98.89		P	31.9

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			22.22		P	21.6
2	☐			11.11		P	86.6
3	☐			19.44		P	49.5
4	☐			38.89		P	49.5
5	☐			19.45		P	24.7
6	☐			47.22		P	44.4
7	☐			27.78		P	45.8
8	☐			38.89		P	44.6
9	☐			36.11		P	48.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5.56		P	34.7
2	☐			8.89		P	94.4
3	☐			8.89		P	57.3
4	☐			8.89		P	43.3
5	☐			4.45		P	86.6
6	☐			6.67		P	50.0
7	☐			12.22		P	56.8
8	☐			12.22		P	31.5
9	☐			20.00		P	28.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	186.12	0.0001	P	19.5
2	☒	0.100					
3	☐	1.000	0.923	2055.79	0.0009	P	7.0
4	☐	50.000	51.621	104006.55	0.0436	P	1.4
5	☐	125.000	125.700	255668.21	0.1060	P	1.6
6	☐	250.000	251.823	524714.53	0.2123	P	1.1
7	☐	500.000	523.507	1064160.79	0.4412	P	5.0
8	☐	1000.000	987.622	2208179.28	0.8324	A	1.6
9	☐			1280.65	0.0006	P	12.7

$$y = 8.4271\text{E-}004 * x + 7.7664\text{E-}005$$

$$R = 0.9996$$

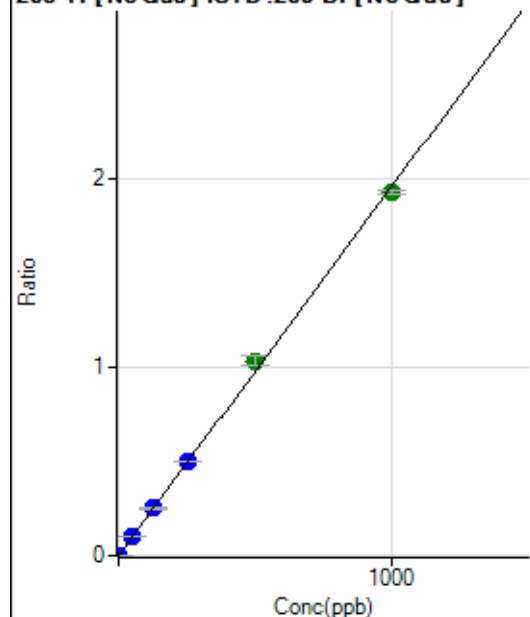
$$DL = 0.05389$$

$$BEC = 0.09216$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	391.68	0.0002	P	5.8
2	☒	0.100					
3	☐	1.000	0.925	4745.44	0.0020	P	3.9
4	☐	50.000	52.219	244486.97	0.1024	P	1.3
5	☐	125.000	127.849	604295.69	0.2506	P	2.0
6	☐	250.000	255.394	1236768.04	0.5004	P	0.6
7	☐	500.000	529.111	2500024.58	1.0365	A	4.8
8	☐	1000.000	983.629	5111799.07	1.9267	A	1.0
9	☐			2633.68	0.0011	P	11.7

$$y = 0.0020 * x + 1.6338E-004$$

$$R = 0.9993$$

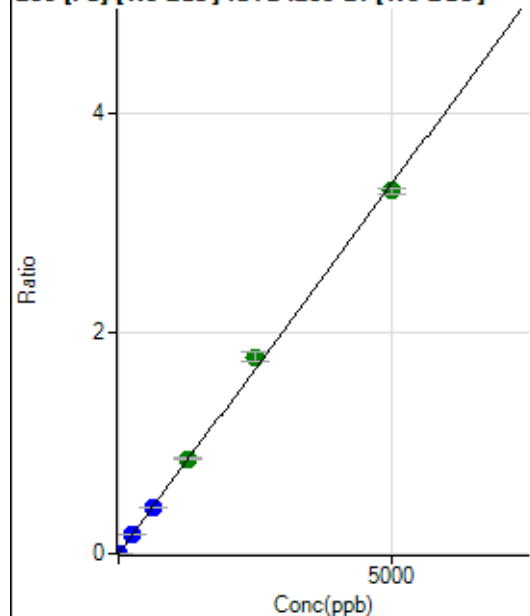
$$DL = 0.01444$$

$$BEC = 0.08341$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	414.83	0.0002	P	3.6
2	☒	0.100					
3	☐	1.000	0.913	1885.36	0.0008	P	3.8
4	☐	250.000	257.487	412025.68	0.1726	P	1.1
5	☐	625.000	628.182	1015181.10	0.4209	P	1.8
6	☐	1250.000	1278.499	2117071.64	0.8565	A	1.5
7	☐	2500.000	2662.684	4302176.14	1.7837	A	4.8
8	☐	5000.000	4910.761	8726830.34	3.2894	A	1.5
9	☐			7696.86	0.0033	P	1.7

$$y = 6.6981E-004 * x + 1.7299E-004$$

$$R = 0.9992$$

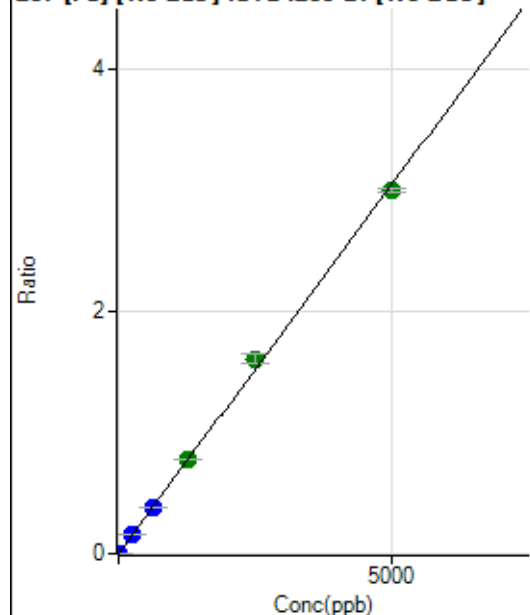
$$DL = 0.02754$$

$$BEC = 0.2583$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	346.31	0.0001	P	7.8
2	☒	0.100					
3	☐	1.000	0.950	1737.19	0.0007	P	5.5
4	☐	250.000	256.261	372355.39	0.1560	P	0.7
5	☐	625.000	624.202	915986.83	0.3798	P	1.3
6	☐	1250.000	1280.965	1925967.34	0.7792	A	1.0
7	☐	2500.000	2644.032	3878697.89	1.6082	A	5.3
8	☐	5000.000	4920.030	7939258.34	2.9925	A	1.0
9	☐			6614.74	0.0029	P	1.3

$$y = 6.0819\text{E-}004 * x + 1.4441\text{E-}004$$

$$R = 0.9993$$

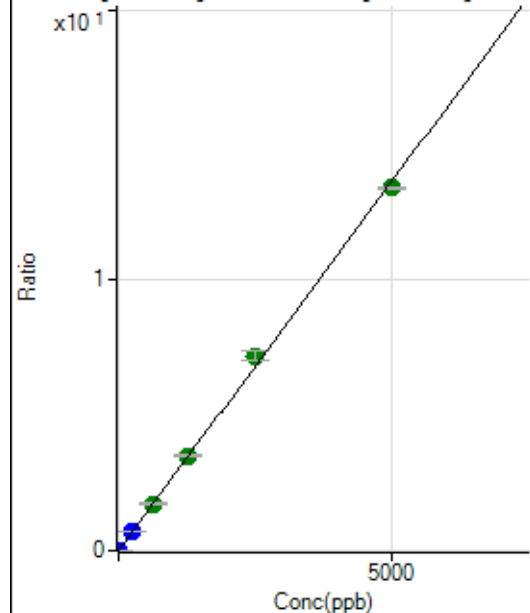
$$DL = 0.05548$$

$$BEC = 0.2374$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1666.74	0.0007	P	1.0
2	☒	0.100					
3	☐	1.000	0.920	7701.03	0.0032	P	0.8
4	☐	250.000	258.617	1685676.59	0.7063	P	0.5
5	☐	625.000	638.191	4201144.55	1.7419	A	1.3
6	☐	1250.000	1283.580	8657615.01	3.5026	A	1.1
7	☐	2500.000	2643.945	17397972.84	7.2141	A	5.4
8	☐	5000.000	4917.553	35596159.01	13.4171	A	0.9
9	☐			30429.25	0.0132	P	2.5

$$y = 0.0027 * x + 6.9486\text{E-}004$$

$$R = 0.9993$$

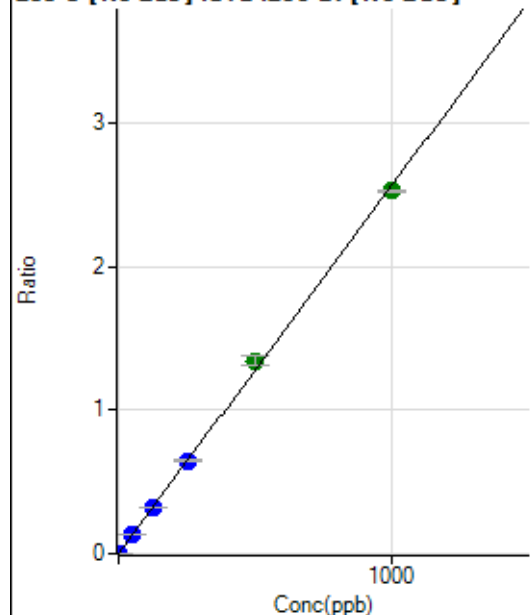
$$DL = 0.007476$$

$$BEC = 0.2547$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	111.12	0.0000	P	14.7
2	☒	0.100		705.60	0.0003	P	12.0
3	☐	1.000	0.921	5790.41	0.0024	P	2.2
4	☐	50.000	51.242	313825.85	0.1315	P	0.2
5	☐	125.000	123.851	766352.00	0.3177	P	0.9
6	☐	250.000	253.480	1607168.76	0.6502	P	0.8
7	☐	500.000	525.286	3249928.18	1.3474	A	4.8
8	☐	1000.000	986.569	6714227.15	2.5306	A	0.5
9	☐			1083.41	0.0005	P	6.3

$$y = 0.0026 * x + 4.6282E-005$$

$$R = 0.9995$$

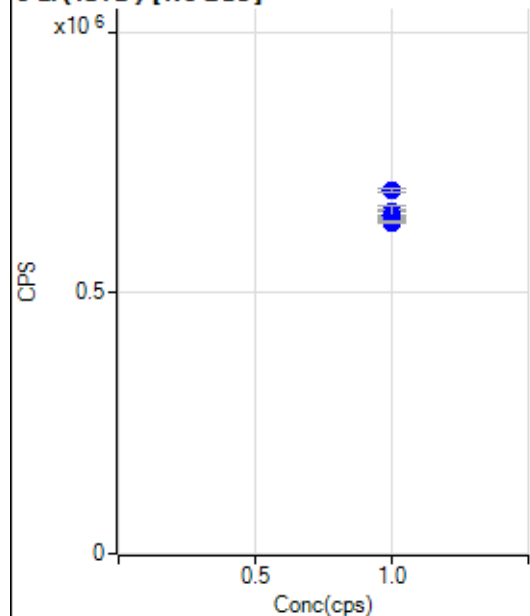
$$DL = 0.007971$$

$$BEC = 0.01804$$

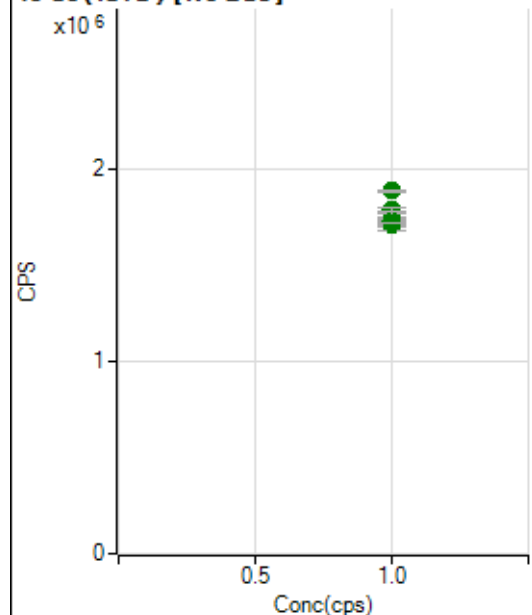
Weight: <None>

Min Conc: 0

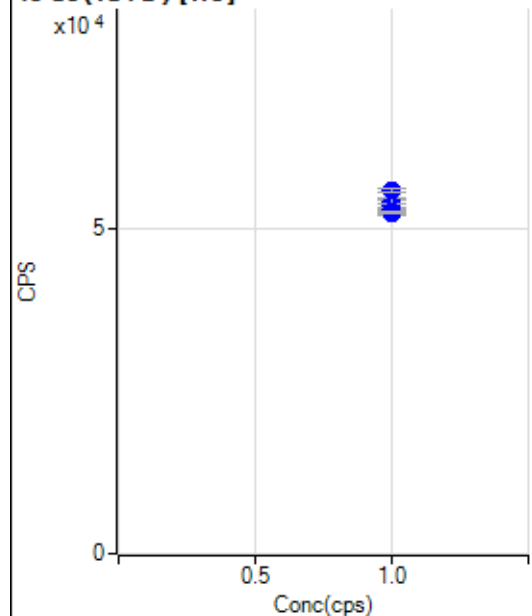
6 Li (ISTD) [No Gas]



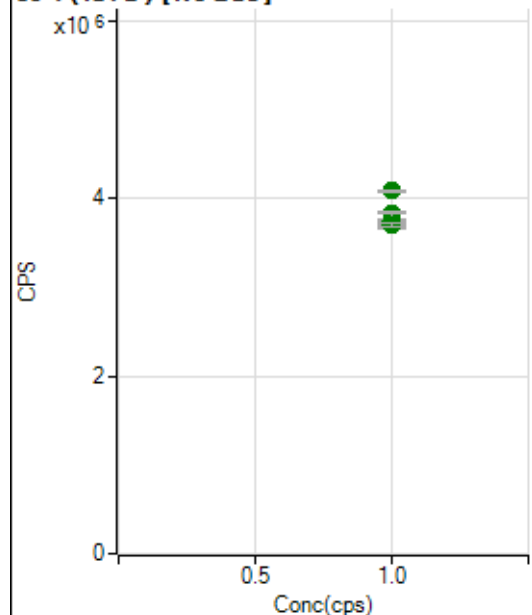
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		643457.92		P	0.5
2	☐	1.000		645116.78		P	1.0
3	☐	1.000		641459.23		P	1.0
4	☐	1.000		642911.89		P	0.7
5	☐	1.000		646818.22		P	0.3
6	☐	1.000		656171.93		P	0.5
7	☐	1.000		649639.89		P	5.1
8	☐	1.000		695006.37		P	1.1
9	☐	1.000		633952.05		P	0.5

45 Sc (ISTD) [No Gas]

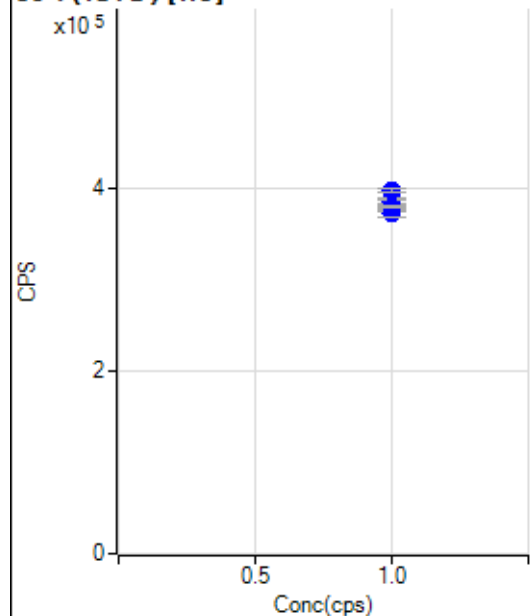
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1706083.92		A	0.6
2	☐	1.000		1742393.20		A	1.5
3	☐	1.000		1737331.63		A	1.1
4	☐	1.000		1737955.13		A	0.3
5	☐	1.000		1717848.00		A	1.3
6	☐	1.000		1785956.50		A	1.3
7	☐	1.000		1731785.24		A	5.7
8	☐	1.000		1887215.99		A	0.4
9	☐	1.000		1719341.62		A	0.4

45 Sc (ISTD) [He]

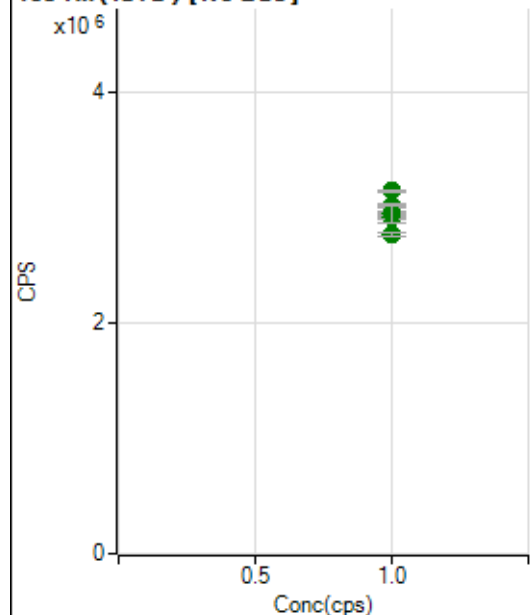
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		53498.25		P	1.3
2	☐	1.000		52482.21		P	1.2
3	☐	1.000		53357.75		P	1.7
4	☐	1.000		53003.09		P	1.5
5	☐	1.000		54076.92		P	1.1
6	☐	1.000		53842.78		P	0.3
7	☐	1.000		54191.72		P	1.6
8	☐	1.000		55831.42		P	0.9
9	☐	1.000		52551.66		P	0.9

89 Y (ISTD) [No Gas]

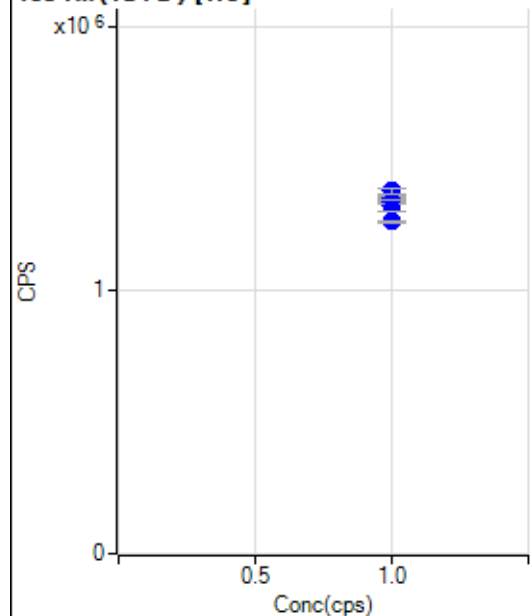
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3701722.93		A	0.9
2	☐	1.000		3742363.45		A	1.0
3	☐	1.000		3699286.85		A	0.1
4	☐	1.000		3714789.04		A	0.5
5	☐	1.000		3697720.50		A	2.2
6	☐	1.000		3834895.78		A	0.4
7	☐	1.000		3752248.14		A	4.7
8	☐	1.000		4082876.33		A	0.6
9	☐	1.000		3698897.96		A	1.4

89 Y (ISTD) [He]

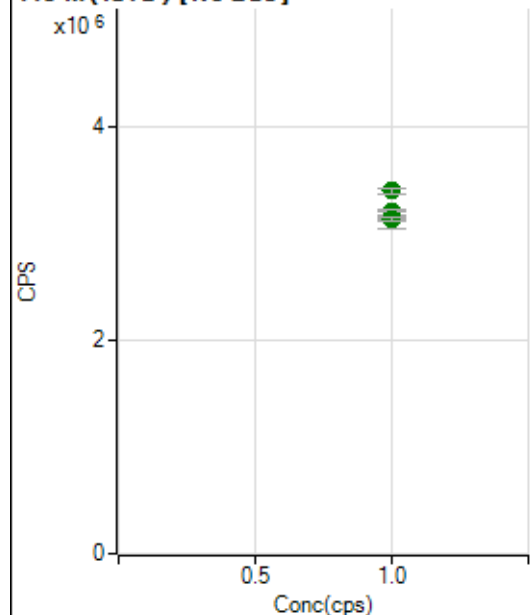
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		379538.32		P	0.6
2	☐	1.000		370996.52		P	1.8
3	☐	1.000		381988.02		P	0.5
4	☐	1.000		378438.97		P	0.9
5	☐	1.000		382064.17		P	0.3
6	☐	1.000		384185.04		P	1.5
7	☐	1.000		387524.34		P	0.5
8	☐	1.000		396562.57		P	1.2
9	☐	1.000		379187.70		P	0.6

103 Rh (ISTD) [No Gas]

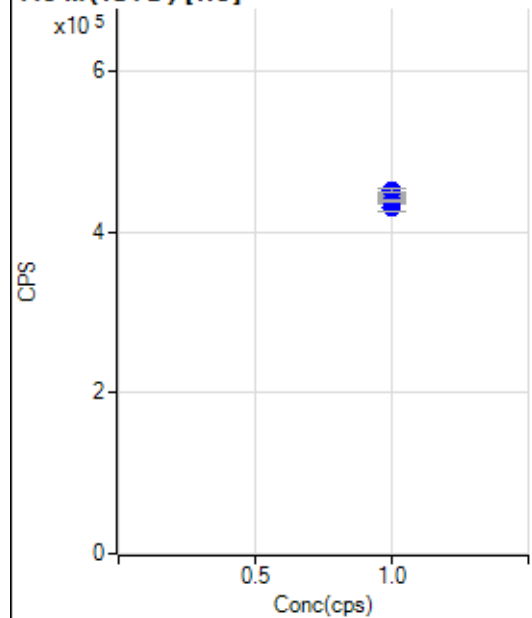
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2932887.18		A	0.5
2	☐	1.000		2963917.54		A	0.5
3	☐	1.000		2912471.03		A	0.4
4	☐	1.000		2926025.78		A	1.1
5	☐	1.000		2962556.40		A	0.9
6	☐	1.000		3018965.52		A	0.8
7	☐	1.000		2948351.93		A	5.3
8	☐	1.000		3147186.90		A	0.8
9	☐	1.000		2767323.00		A	0.8

103 Rh (ISTD) [He]

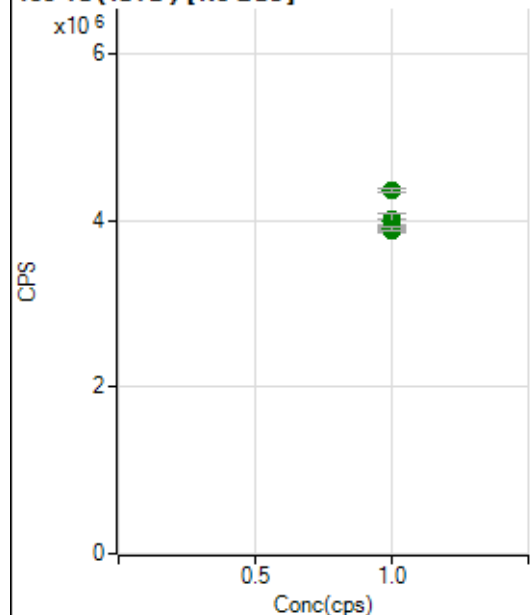
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1340599.14		P	0.7
2	☐	1.000		1321976.55		P	2.7
3	☐	1.000		1338203.34		P	0.7
4	☐	1.000		1339857.46		P	0.6
5	☐	1.000		1352481.77		P	0.5
6	☐	1.000		1339154.61		P	1.3
7	☐	1.000		1351951.47		P	0.9
8	☐	1.000		1378646.61		P	1.5
9	☐	1.000		1263615.88		P	0.7

115 In (ISTD) [No Gas]

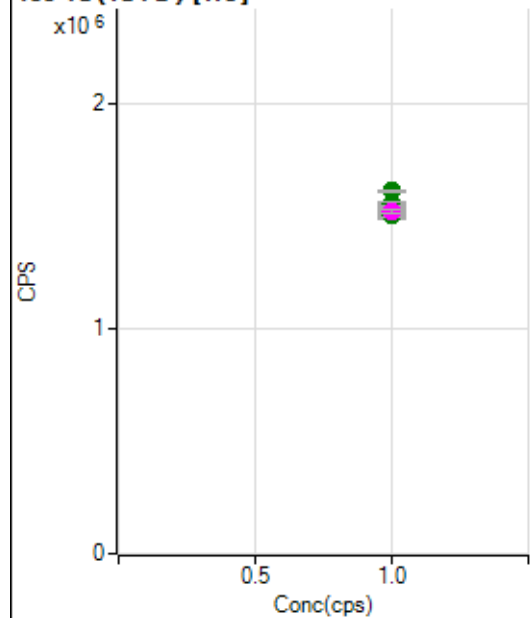
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3132117.61		A	1.1
2	☐	1.000		3161171.79		A	0.8
3	☐	1.000		3141562.61		A	0.7
4	☐	1.000		3130291.86		A	1.1
5	☐	1.000		3156819.58		A	0.7
6	☐	1.000		3207908.66		A	0.5
7	☐	1.000		3129785.92		A	5.6
8	☐	1.000		3394526.17		A	1.4
9	☐	1.000		3127888.00		A	1.1

115 In (ISTD) [He]

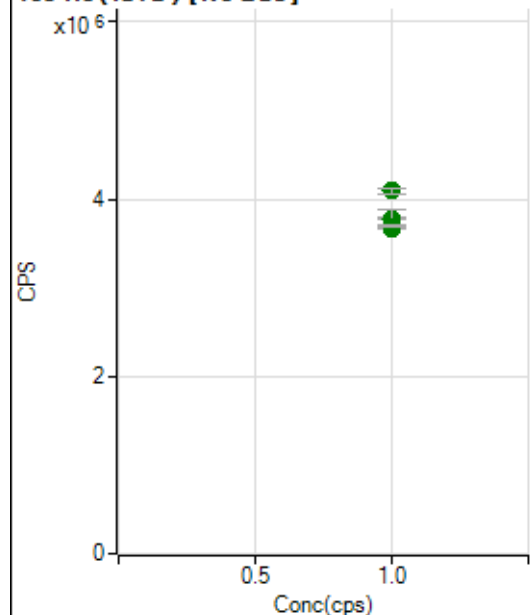
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		437787.32		P	0.4
2	☐	1.000		430471.79		P	1.9
3	☐	1.000		438778.98		P	0.5
4	☐	1.000		439658.53		P	0.3
5	☐	1.000		440357.55		P	0.7
6	☐	1.000		438894.39		P	0.8
7	☐	1.000		445644.83		P	0.6
8	☐	1.000		451220.14		P	0.9
9	☐	1.000		437817.82		P	0.5

159 Tb (ISTD) [No Gas]

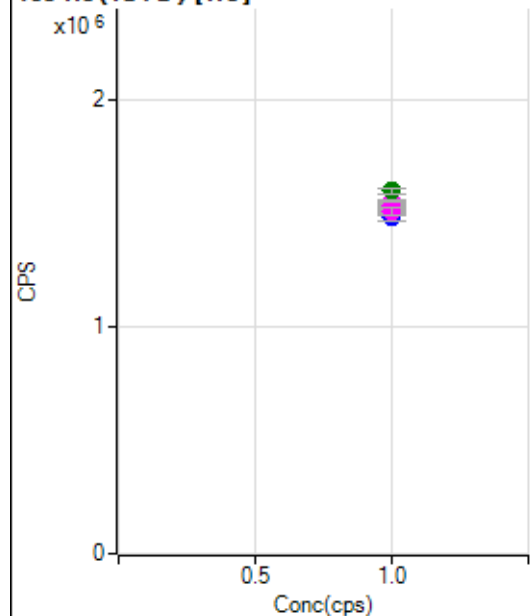
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3940101.92		A	0.5
2	☐	1.000		3917402.44		A	0.5
3	☐	1.000		3923838.34		A	1.4
4	☐	1.000		3876545.85		A	1.5
5	☐	1.000		3945692.86		A	0.3
6	☐	1.000		4018734.98		A	0.4
7	☐	1.000		3999481.15		A	4.7
8	☐	1.000		4359112.61		A	1.0
9	☐	1.000		3906082.75		A	1.7

159 Tb (ISTD) [He]

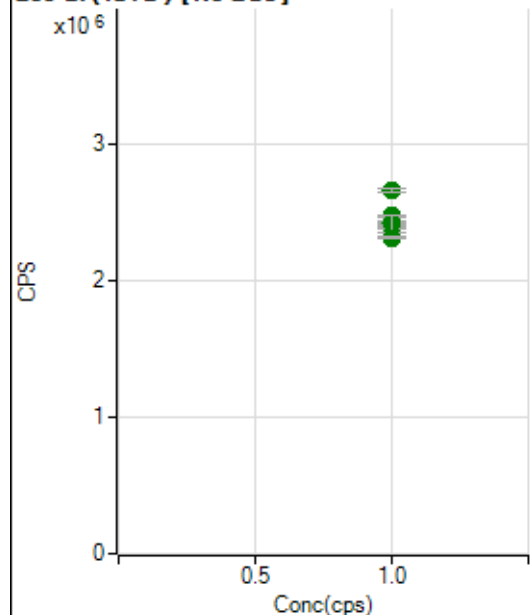
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1512988.97		M	0.9
2	☐	1.000		1502232.39		P	1.8
3	☐	1.000		1529600.81		P	0.3
4	☐	1.000		1505066.21		A	1.2
5	☐	1.000		1550724.65		P	0.7
6	☐	1.000		1540595.71		A	0.7
7	☐	1.000		1556241.18		A	1.0
8	☐	1.000		1611696.64		A	0.3
9	☐	1.000		1521552.81		M	1.0

165 Ho (ISTD) [No Gas]

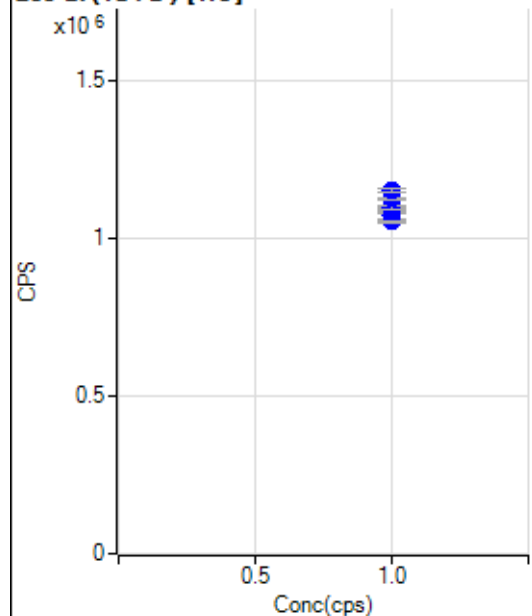
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3676272.09		A	0.7
2	☐	1.000		3679905.03		A	0.6
3	☐	1.000		3694999.35		A	1.0
4	☐	1.000		3670969.31		A	0.3
5	☐	1.000		3689876.12		A	1.3
6	☐	1.000		3780532.03		A	0.6
7	☐	1.000		3779616.32		A	5.0
8	☐	1.000		4092845.23		A	1.7
9	☐	1.000		3694095.65		A	0.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1508569.32		M	1.0
2	☐	1.000		1482883.00		P	2.4
3	☐	1.000		1506979.87		M	1.4
4	☐	1.000		1505368.83		M	0.6
5	☐	1.000		1539571.18		M	0.4
6	☐	1.000		1532125.01		M	1.9
7	☐	1.000		1553144.23		M	0.8
8	☐	1.000		1598508.80		A	1.4
9	☐	1.000		1507942.31		M	2.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2398866.96		A	1.6
2	☐	1.000		2410993.94		A	1.4
3	☐	1.000		2403288.00		A	1.5
4	☐	1.000		2386792.26		A	0.9
5	☐	1.000		2412164.60		A	1.5
6	☐	1.000		2471717.79		A	0.6
7	☐	1.000		2415969.27		A	5.3
8	☐	1.000		2653165.41		A	1.0
9	☐	1.000		2312232.03		A	0.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1085884.74		P	0.6
2	☐	1.000		1073487.73		P	1.9
3	☐	1.000		1091589.79		P	0.6
4	☐	1.000		1101105.53		P	0.9
5	☐	1.000		1102839.19		P	0.6
6	☐	1.000		1100274.26		P	1.1
7	☐	1.000		1127182.06		P	0.2
8	☐	1.000		1152283.90		P	1.0
9	☐	1.000		1053649.06		P	0.7

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8061220MS.b
Acq. Date-Time 2020-06-12 13:17:15
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		1933	19327.74			0.777	5.000
24		14617	146170.84			0.670	5.000
25		2085	20845.51			1.291	5.000
26		2397	23974.18			1.112	5.000
59		13746	137462.43			0.381	5.000
113		2751	27508.38			0.123	5.000
115		8087	80870.69			2.598	5.000
206		3405	34053.59			0.702	5.000
207		2864	28638.89			0.629	5.000
208		7080	70796.63			0.579	5.000
220		0	2.70			33.641	

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

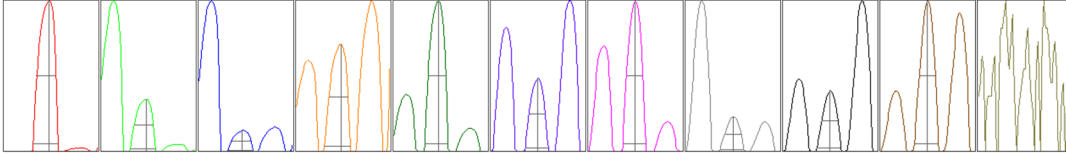
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	1922	1917	1948	1950	1927
24	14518	14551	14620	14624	14772
25	2062	2099	2056	2084	2122
26	2372	2370	2396	2422	2427
59	13705	13687	13754	13765	13820
113	2753	2751	2753	2752	2745
115	8381	8219	8032	7928	7876
206	3373	3408	3417	3436	3392
207	2858	2876	2851	2846	2889
208	7025	7089	7107	7052	7126

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	3389.20	8.95	8.90 - 9.10	
24	25766.15	23.95	23.90 - 24.10	
25	3464.03	24.90	24.90 - 25.10	
26	4104.64	25.95	25.90 - 26.10	
59	25282.74	58.95	58.90 - 59.10	
113	5599.65	113.00	112.90 - 113.10	
115	16485.85	115.00	114.90 - 115.10	
206	6892.56	206.05	205.90 - 206.10	
207	5766.77	207.00	206.90 - 207.10	
208	14360.85	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.785	0.900	
24	0.61	0.790	0.900	
25	0.63	0.786	0.900	
26	0.62	0.822	0.900	
59	0.57	0.736	0.900	
113	0.51	0.726	0.900	
115	0.51	0.724	0.900	
206	0.50	0.734	0.900	
207	0.51	0.766	0.900	
208	0.50	0.760	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.49 L/min Dilution Gas 0.45 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.5 V	Deflect	14.8 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-85 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9997	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	-0.07		

Hardware Settings

Torch

Torch H	0.5 mm	Torch V	0.0 mm
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EM

Discriminator	3.9 mV	Analog HV	2168 V	Pulse HV	1232 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		3212	32117.68			0.725	
89		5336	53356.17			0.552	
205		7335	73352.18			0.750	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	3213	3190	3187	3232	3237
89	5385	5311	5317	5340	5325
205	7267	7299	7377	7332	7402

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.49 L/min	Dilution Gas	0.45 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	11.5 V	Deflect	3.8 V
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US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-85 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	180 V		
QP Parameters					
Mass Gain	124	Axis Gain	0.9997	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.07		
Hardware Settings					
Torch					
Torch H	0.5 mm	Torch V	0.0 mm		
EM					
Discriminator	3.9 mV	Analog HV	2168 V	Pulse HV	1232 V