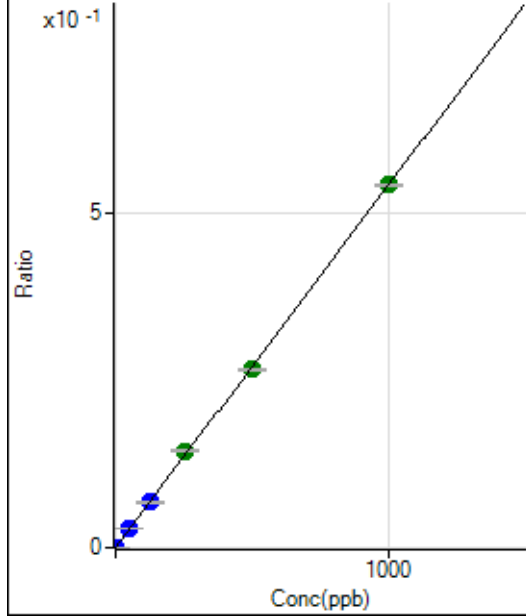


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8040622 MS.b\
Analysis File: P8040622 MS.batch.bin
DA Date-Time: 2022-04-06 17:21:00
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-04-06 13:35:13
2	006CALS.d	S02	2022-04-06 13:41:22
3	007CALS.d	S03	2022-04-06 13:44:26
4	008CALS.d	S04	2022-04-06 13:47:31
5	009CALS.d	S05	2022-04-06 13:50:34
6	010CALS.d	S06	2022-04-06 13:53:39
7	011CALS.d	S07	2022-04-06 13:56:43
8	012CALS.d	S08	2022-04-06 13:59:49

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	47.99	0.0000	P	10.6
2	☐	1.000	1.007	5488.62	0.0006	P	0.8
3	☐	50.000	52.409	279049.39	0.0284	P	1.5
4	☐	125.000	125.494	672070.37	0.0681	P	2.8
5	☐	250.000	265.703	1411360.43	0.1442	A	1.6
6	☐	500.000	490.924	2641758.69	0.2664	A	1.2
7	☐	1000.000	1000.430	5196997.93	0.5429	A	0.6
8	☐			607.23	0.0001	P	5.4

$$y = 5.4270\text{E-}004 * x + 4.9703\text{E-}006$$

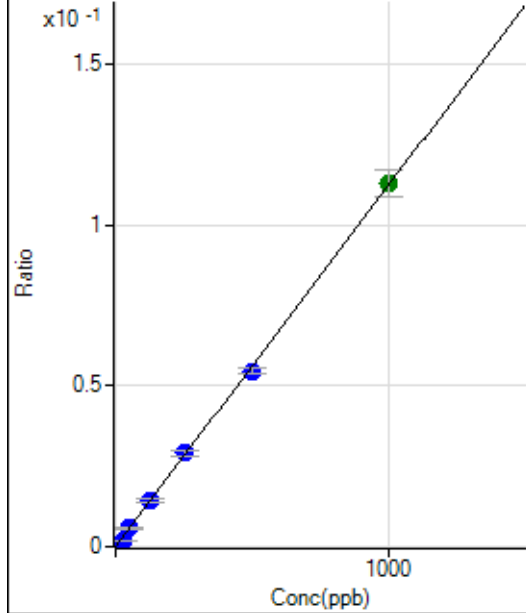
$$R = 0.9998$$

$$DL = 0.002924$$

$$BEC = 0.009158$$

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	449.25	0.0000	P	9.3
2	☐	25.000	17.256	19740.10	0.0020	P	6.6
3	☐	50.000	51.252	56924.51	0.0058	P	4.2
4	☐	125.000	127.346	141613.32	0.0144	P	4.9
5	☐	250.000	258.899	284915.05	0.0291	P	7.0
6	☐	500.000	486.709	542736.75	0.0547	P	2.9
7	☐	1000.000	1004.258	1079524.31	0.1129	A	7.3
8	☐			104613.53	0.0112	P	6.0

$$y = 1.1233\text{E-}004 * x + 4.6528\text{E-}005$$

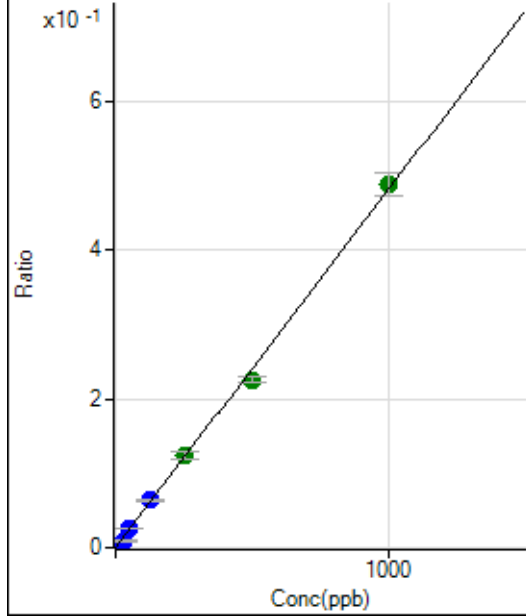
$$R = 0.9998$$

$$DL = 0.1154$$

$$BEC = 0.4142$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2007.75	0.0002	P	3.1
2	☐	25.000	18.112	88630.51	0.0089	P	5.7
3	☐	50.000	53.358	253591.38	0.0258	P	2.7
4	☐	125.000	132.069	628154.73	0.0637	P	6.0
5	☐	250.000	257.001	1210038.93	0.1237	A	6.8
6	☐	500.000	469.004	2237093.36	0.2256	A	2.9
7	☐	1000.000	1012.868	4657882.02	0.4869	A	6.5
8	☐			457734.75	0.0488	P	7.3

$$y = 4.8054\text{E-}004 * x + 2.0756\text{E-}004$$

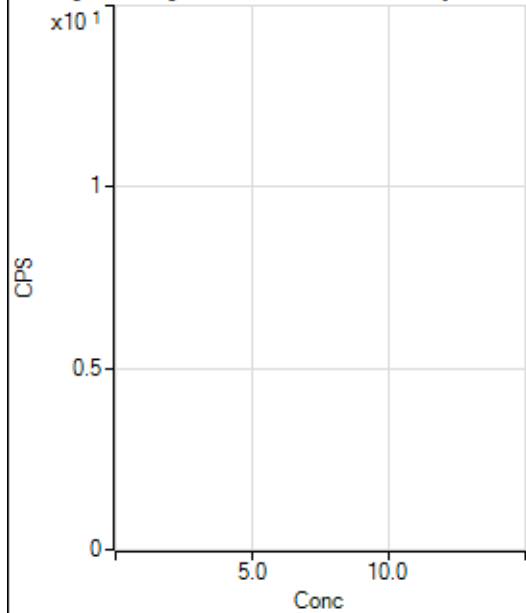
$$R = 0.9992$$

$$DL = 0.03977$$

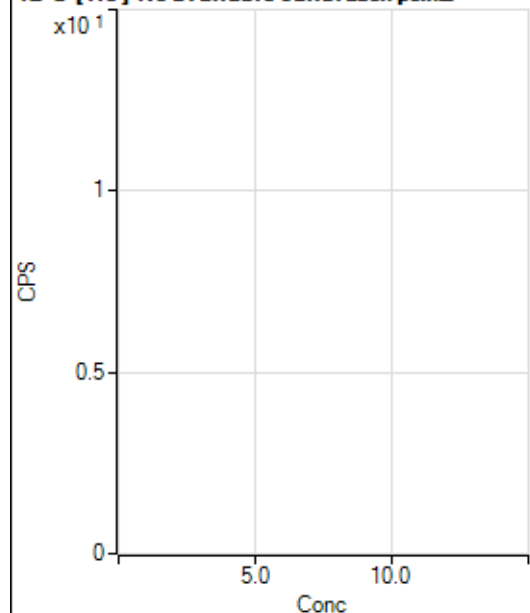
$$BEC = 0.4319$$

Weight: <None>

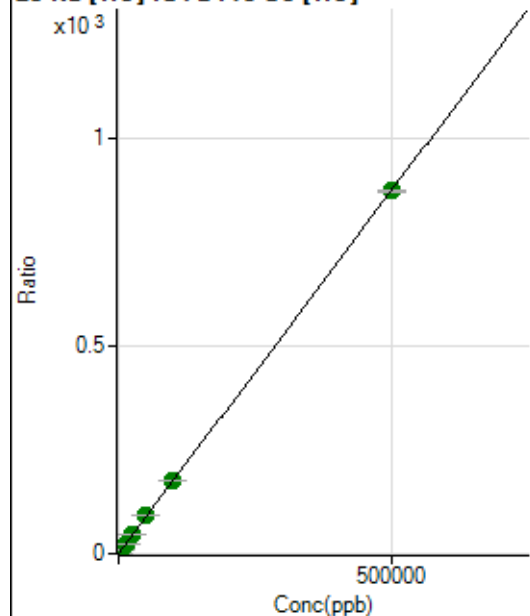
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			9391377.12		A	1.3
2	☐			9489500.91		A	0.9
3	☐			11146079.33		A	1.8
4	☐			10285846.93		A	1.3
5	☐			10543529.92		A	0.3
6	☐			10547822.03		A	1.8
7	☐			11602938.45		A	2.1
8	☐			9960912.11		A	1.3

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			84529.23		P	2.5
2	☐			86635.68		P	2.0
3	☐			111175.09		P	1.2
4	☐			95959.76		P	2.3
5	☐			99746.57		P	0.7
6	☐			102590.91		P	2.2
7	☐			115742.77		P	0.8
8	☐			101821.36		P	2.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16423.52	0.0613	P	1.7
2	☐	500.000	428.620	233751.40	0.8120	P	7.7
3	☐	5000.000	5291.818	2467410.08	9.3307	A	0.7
4	☐	12500.000	13163.055	5954033.12	23.1184	A	0.7
5	☐	25000.000	26197.471	11765801.74	45.9503	A	0.8
6	☐	50000.000	51926.293	23723810.95	91.0184	A	0.7
7	☐	100000.00	101244.14	47552349.33	177.4064	A	0.6
8	☐	500000.00	499479.24	228974538.4	874.9781	A	0.2

$$y = 0.0018 * x + 0.0613$$

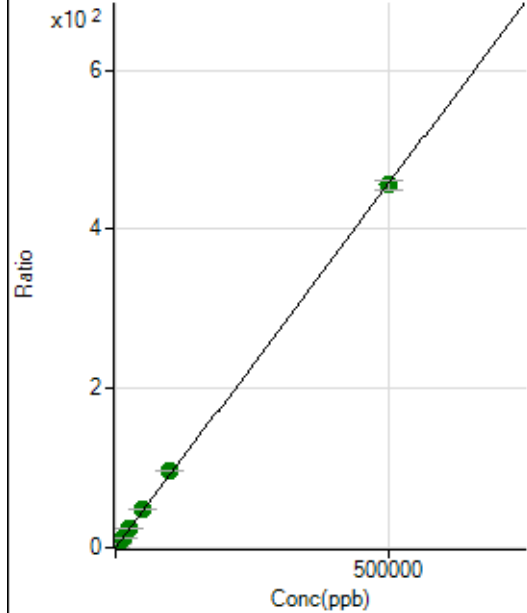
$$R = 1.0000$$

$$DL = 1.76$$

$$BEC = 34.97$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	383.35	0.0014	P	24.1
2	☐	500.000	460.695	121681.90	0.4227	P	7.5
3	☐	5000.000	5522.884	1335824.64	5.0516	A	2.0
4	☐	12500.000	13819.956	3254366.87	12.6386	A	2.5
5	☐	25000.000	27342.261	6402361.30	25.0035	A	0.8
6	☐	50000.000	53558.396	12765311.31	48.9759	A	0.2
7	☐	100000.00	104633.04	25646061.51	95.6791	A	0.5
8	☐	500000.00	498562.25	119281180.4	455.8926	A	2.4

$$y = 9.1441\text{E-}004 * x + 0.0014$$

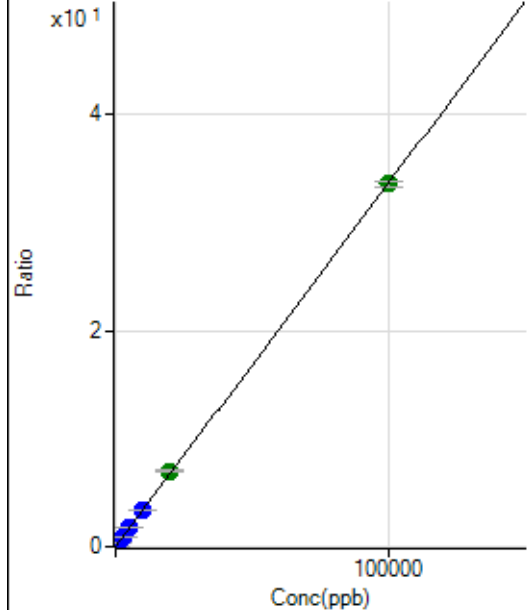
$$R = 0.9999$$

$$DL = 1.13$$

$$BEC = 1.563$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	73.32	0.0003	P	11.2
2	☐	20.000	17.385	1761.56	0.0061	P	8.5
3	☐	1000.000	1056.769	94087.77	0.3558	P	1.1
4	☐	2500.000	2656.704	230216.82	0.8941	P	1.7
5	☐	5000.000	5209.551	448829.58	1.7529	P	1.1
6	☐	10000.000	10120.664	887512.59	3.4052	P	1.4
7	☐	20000.000	20880.357	1883043.60	7.0250	A	2.5
8	☐	100000.00	99796.900	8786232.15	33.5749	A	1.3

$$y = 3.3643\text{E-}004 * x + 2.7345\text{E-}004$$

$$R = 1.0000$$

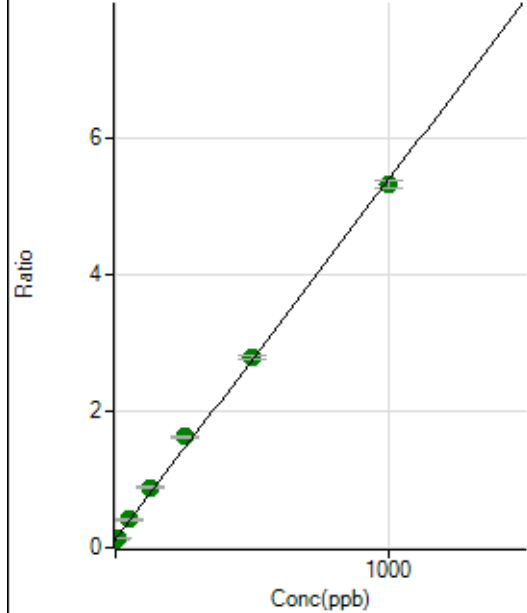
$$DL = 0.274$$

$$BEC = 0.8128$$

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	1056199.96	0.1205	A	4.8
2	☐	10.000	2.214	1205888.66	0.1321	A	1.1
3	☐	50.000	55.751	3749695.61	0.4140	A	3.8
4	☐	125.000	145.479	7919778.91	0.8865	A	1.9
5	☐	250.000	284.580	14224048.06	1.6190	A	1.8
6	☐	500.000	506.069	25384885.12	2.7853	A	2.1
7	☐	1000.000	985.551	48547314.62	5.3101	A	2.2
8	☐			1922662.48	0.2128	A	2.9

$$y = 0.0053 * x + 0.1205$$

$$R = 0.9990$$

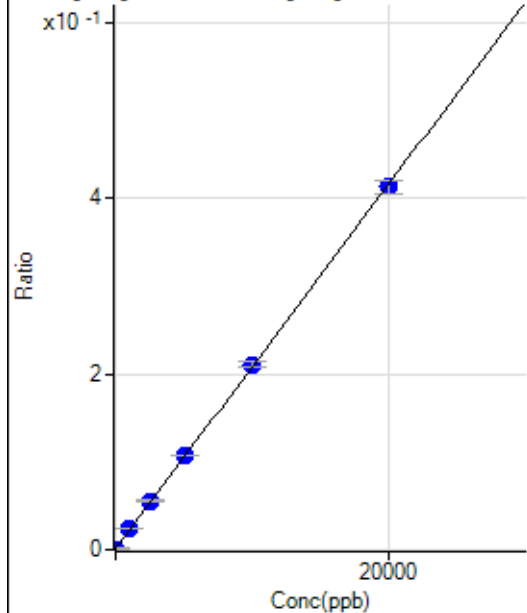
$$DL = 3.27$$

$$BEC = 22.88$$

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	-11.611	144.45	0.0005	P	26.7
2	☐	0.000	11.611	294.46	0.0010	P	18.3
3	☐	1000.000	1100.719	6251.49	0.0236	P	3.7
4	☐	2500.000	2615.032	14182.25	0.0551	P	3.1
5	☐	5000.000	5170.417	27693.62	0.1082	P	0.3
6	☐	10000.000	10141.187	55094.48	0.2114	P	2.6
7	☐	20000.000	19867.387	110800.87	0.4134	P	3.6
8	☐			227.78	0.0009	P	29.0

$$y = 2.0767E-005 * x + 7.8057E-004$$

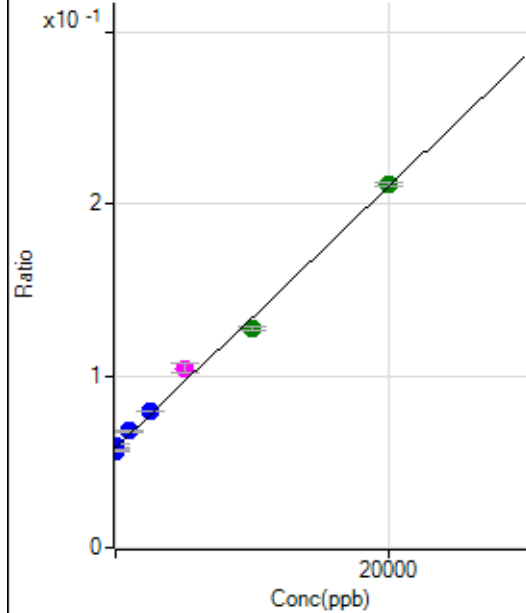
$$R = 0.9999$$

$$DL = 23.9$$

$$BEC = 37.59$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	211.244	523781.51	0.0597	P	3.5
2	☐	0.000	-211.244	515516.45	0.0565	P	3.1
3	☐	1000.000	1276.404	614414.62	0.0678	P	1.6
4	☐	2500.000	2798.834	709367.62	0.0794	P	0.5
5	☐	5000.000	6090.450	917610.72	0.1044	M	4.8
6	☐	10000.000	9095.424	1160203.68	0.1273	A	1.6
7	☐	20000.000	20128.501	1931347.35	0.2112	A	1.1
8	☐			412296.78	0.0456	P	1.4

$$y = 7.6076E-006 * x + 0.0581$$

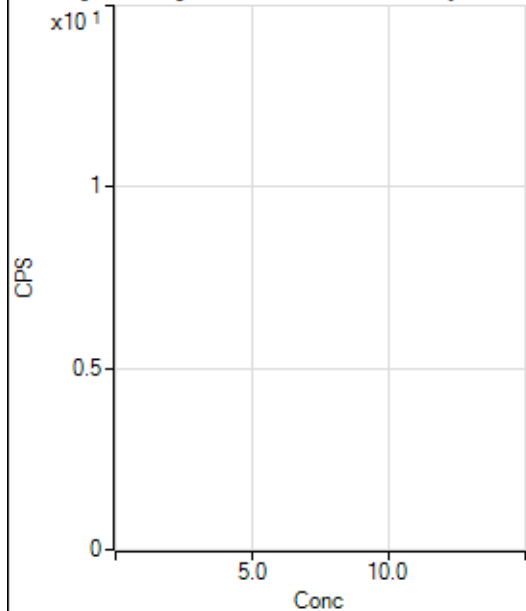
$$R = 0.9967$$

$$DL = 761.2$$

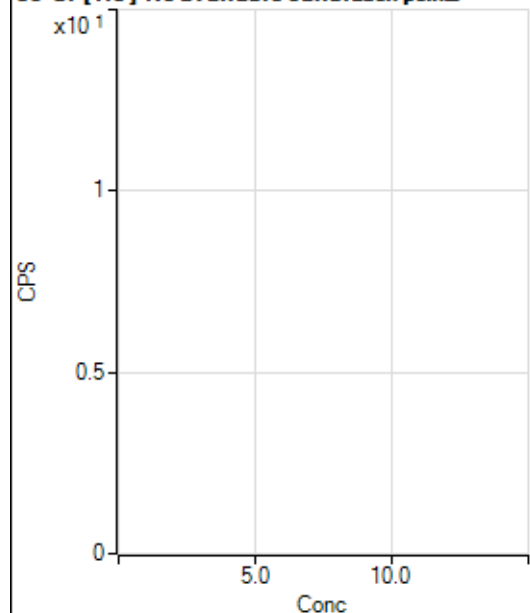
$$BEC = 7638$$

Weight: <None>

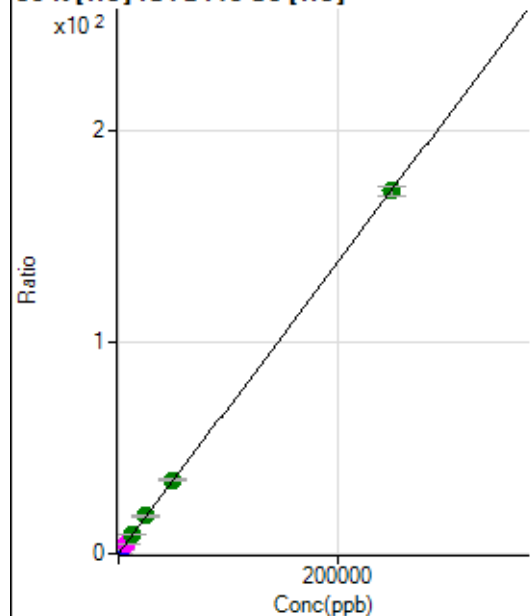
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			210653.79		P	0.6
2	☐			241926.33		P	1.0
3	☐			252213.96		P	1.2
4	☐			251170.47		P	0.7
5	☐			245437.81		P	0.8
6	☐			241788.10		P	0.7
7	☐			226087.16		P	1.2
8	☐			227186.23		P	0.3

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1386.21		P	0.9
2	☐			1572.35		P	8.0
3	☐			1680.70		P	8.7
4	☐			1639.03		P	6.5
5	☐			1625.14		P	9.2
6	☐			1536.24		P	4.7
7	☐			1583.47		P	7.5
8	☐			1522.35		P	5.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	24955.42	0.0931	P	1.2
2	☐	500.000	434.766	112683.02	0.3917	P	8.9
3	☐	2500.000	2620.428	500541.05	1.8929	P	0.7
4	☐	6250.000	6782.005	1223592.43	4.7511	M	0.8
5	☐	12500.000	13210.729	2346917.68	9.1666	A	1.2
6	☐	25000.000	25712.892	4627229.66	17.7534	A	0.6
7	☐	50000.000	50610.610	9342071.73	34.8538	A	2.1
8	☐	250000.00	249756.67	44909090.94	171.6327	A	2.4

$$y = 6.8683\text{E-}004 * x + 0.0931$$

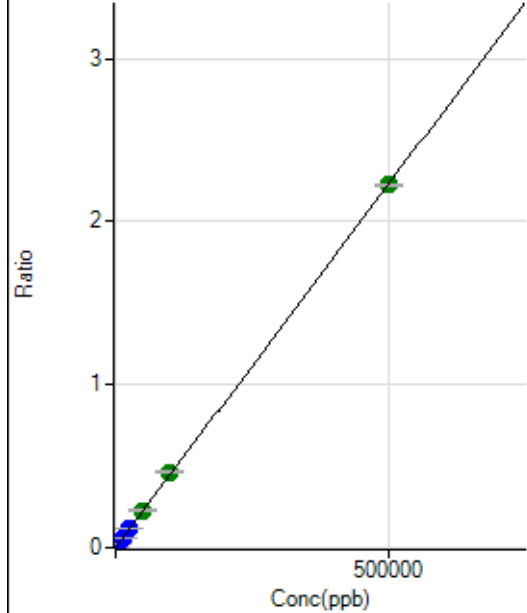
$$R = 1.0000$$

$$DL = 4.853$$

$$BEC = 135.5$$

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	219.98	0.0000	P	10.3
2	☐	500.000	469.402	19321.81	0.0021	P	1.5
3	☐	5000.000	5184.753	209580.64	0.0231	P	1.2
4	☐	12500.000	12888.023	513377.98	0.0575	P	1.1
5	☐	25000.000	26047.929	1020074.28	0.1161	P	2.2
6	☐	50000.000	51270.414	2082875.83	0.2285	A	1.9
7	☐	100000.00	103709.68	4226059.46	0.4622	A	1.8
8	☐	500000.00	499067.10	20099040.98	2.2242	A	0.6

$$y = 4.4568\text{E-}006 * x + 2.5120\text{E-}005$$

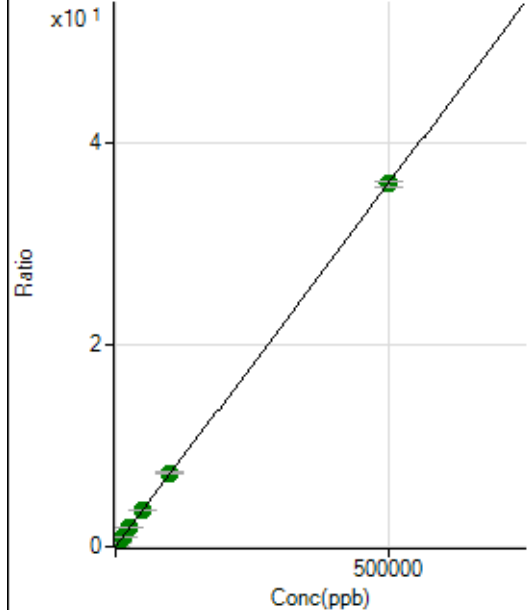
$$R = 1.0000$$

$$DL = 1.75$$

$$BEC = 5.636$$

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	14082.08	0.0016	P	4.0
2	☐	500.000	470.278	323626.95	0.0355	P	1.7
3	☐	5000.000	5147.926	3372065.11	0.3722	A	1.7
4	☐	12500.000	12713.967	8191730.73	0.9169	A	0.4
5	☐	25000.000	25828.452	16348313.57	1.8611	A	2.9
6	☐	50000.000	49884.902	32752439.54	3.5929	A	1.2
7	☐	100000.00	101788.08	67024476.21	7.3296	A	1.1
8	☐	500000.00	499605.67	325009910.9	35.9693	A	1.5

$$y = 7.1992\text{E-}005 * x + 0.0016$$

$$R = 1.0000$$

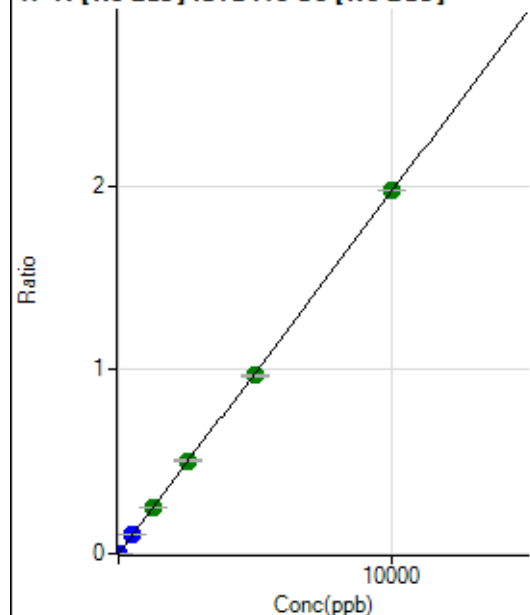
$$DL = 2.693$$

$$BEC = 22.3$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	355.57	0.0000	P	1.7
2	☐	5.000	5.009	9370.00	0.0010	P	3.2
3	☐	500.000	511.489	912614.65	0.1007	P	2.2
4	☐	1250.000	1289.588	2268440.94	0.2539	A	0.8
5	☐	2500.000	2557.706	4424364.47	0.5036	A	1.5
6	☐	5000.000	4918.175	8824825.02	0.9682	A	1.9
7	☐	10000.000	10020.963	18038878.01	1.9728	A	0.2
8	☐			3583.90	0.0004	P	2.6

$$y = 1.9686E-004 * x + 4.0480E-005$$

$$R = 0.9999$$

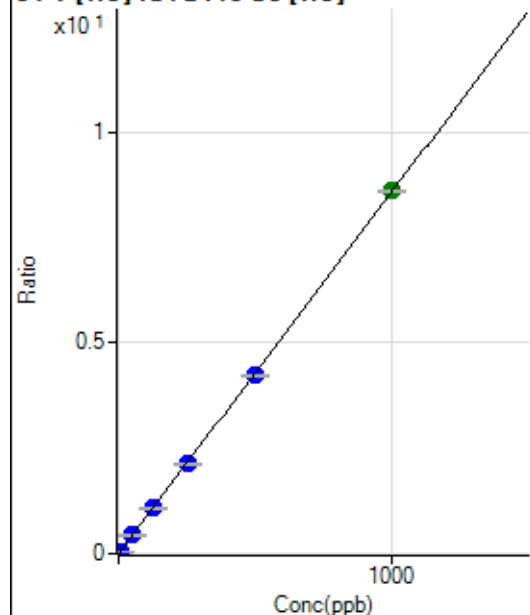
$$DL = 0.01079$$

$$BEC = 0.2056$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5.56	0.0000	P	91.5
2	☐	5.000	4.267	10556.19	0.0366	P	5.7
3	☐	50.000	50.679	115021.14	0.4350	P	1.1
4	☐	125.000	125.940	278289.11	1.0809	P	2.6
5	☐	250.000	248.557	546178.02	2.1333	P	1.2
6	☐	500.000	492.971	1102765.00	4.2309	P	0.6
7	☐	1000.000	1003.728	2309128.34	8.6145	A	0.4
8	☐			366.68	0.0014	P	2.1

$$y = 0.0086 * x + 2.0789E-005$$

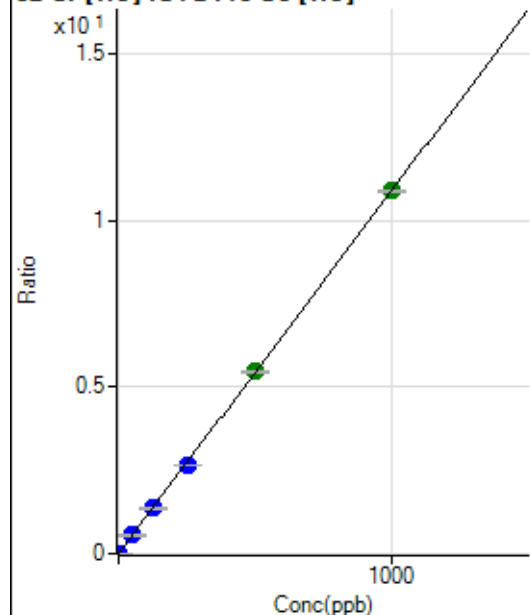
$$R = 1.0000$$

$$DL = 0.006649$$

$$BEC = 0.002422$$

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	1201.18	0.0045	P	7.7
2	☐	2.000	1.671	6529.34	0.0227	P	9.5
3	☐	50.000	50.033	145366.77	0.5497	P	1.0
4	☐	125.000	125.099	352128.29	1.3678	P	2.9
5	☐	250.000	245.181	685261.70	2.6764	P	0.7
6	☐	500.000	502.207	1427591.30	5.4774	A	1.2
7	☐	1000.000	1000.088	2922479.50	10.9031	A	0.6
8	☐			25167.75	0.0962	P	1.5

$$y = 0.0109 * x + 0.0045$$

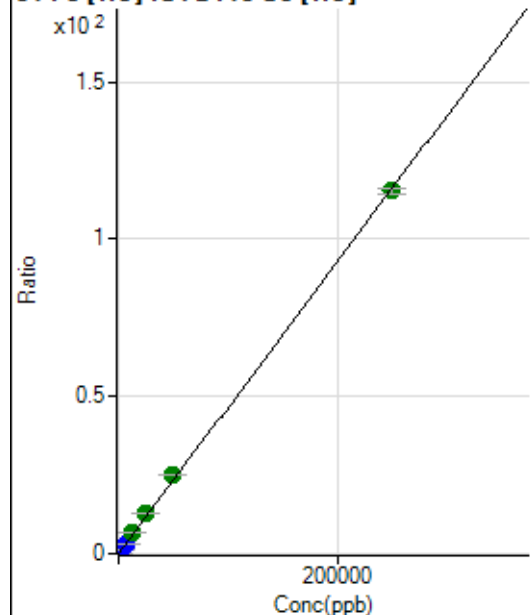
$$R = 1.0000$$

$$DL = 0.09473$$

$$BEC = 0.4111$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	838.93	0.0031	P	1.4
2	☐	50.000	47.122	7192.68	0.0250	P	7.1
3	☐	2500.000	2791.134	343025.14	1.2972	P	1.0
4	☐	6250.000	6944.927	829878.31	3.2230	P	2.0
5	☐	12500.000	14001.693	1662777.67	6.4947	A	1.9
6	☐	25000.000	27657.433	3343036.18	12.8259	A	2.0
7	☐	50000.000	53915.783	6700895.46	25.0000	A	1.1
8	☐	250000.00	248855.73	30190003.92	115.3797	A	1.7

$$y = 4.6363E-004 * x + 0.0031$$

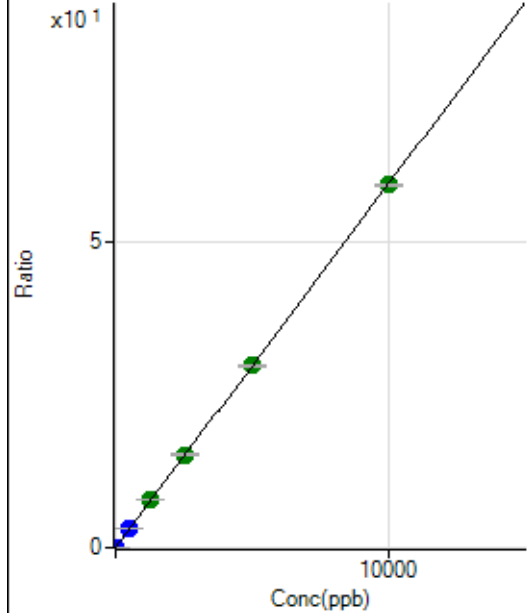
$$R = 0.9998$$

$$DL = 0.2771$$

$$BEC = 6.749$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	131.11	0.0005	P	21.0
2	☐	1.000	0.871	1629.00	0.0057	P	6.2
3	☐	500.000	508.677	797881.89	3.0172	P	1.2
4	☐	1250.000	1316.107	2009577.24	7.8058	A	3.1
5	☐	2500.000	2563.134	3892008.45	15.2013	A	1.2
6	☐	5000.000	5005.512	7737463.43	29.6860	A	0.7
7	☐	10000.000	9972.763	15853975.74	59.1446	A	0.5
8	☐			8251.36	0.0315	P	4.5

$$y = 0.0059 * x + 4.8930E-004$$

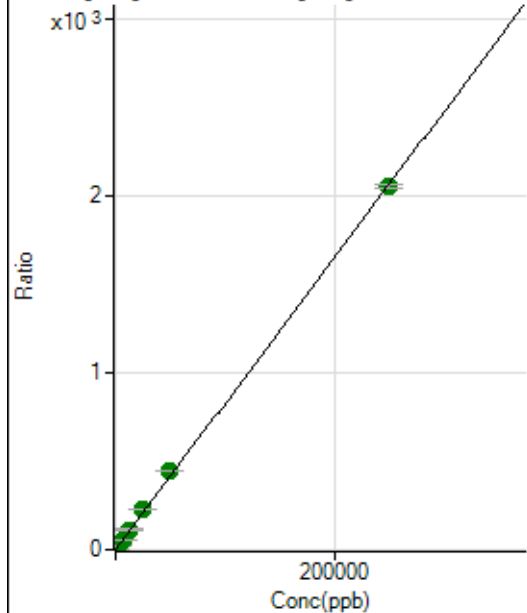
$$R = 1.0000$$

$$DL = 0.05204$$

$$BEC = 0.0825$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6258.89	0.0233	P	3.4
2	☐	50.000	47.388	119213.40	0.4142	P	7.9
3	☐	2500.000	2854.705	6232464.32	23.5686	A	0.9
4	☐	6250.000	7108.514	15102587.37	58.6535	A	1.9
5	☐	12500.000	13836.733	29225353.20	114.1470	A	1.3
6	☐	25000.000	27516.651	59159170.30	226.9772	A	2.1
7	☐	50000.000	53913.896	119191155.4	444.6984	A	1.8
8	☐	250000.00	248873.71	537127360.1	2052.702	A	1.2

$$y = 0.0082 * x + 0.0233$$

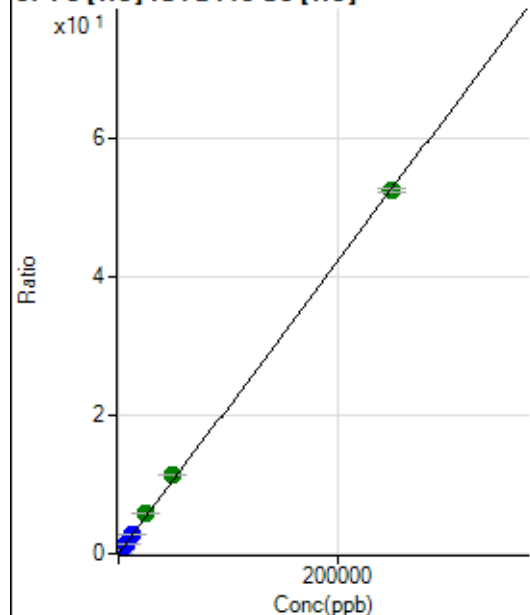
$$R = 0.9998$$

$$DL = 0.2921$$

$$BEC = 2.83$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	231.49	0.0009	P	23.0
2	☐	50.000	45.051	2978.14	0.0104	P	13.5
3	☐	2500.000	2730.979	152591.71	0.5770	P	0.9
4	☐	6250.000	6766.293	367793.15	1.4284	P	2.1
5	☐	12500.000	13274.259	717333.22	2.8015	P	0.6
6	☐	25000.000	27672.415	1521923.95	5.8392	A	1.8
7	☐	50000.000	54070.018	3057877.12	11.4086	A	1.3
8	☐	250000.00	248864.82	13739770.56	52.5066	A	0.9

$$y = 2.1098\text{E-}004 * x + 8.6284\text{E-}004$$

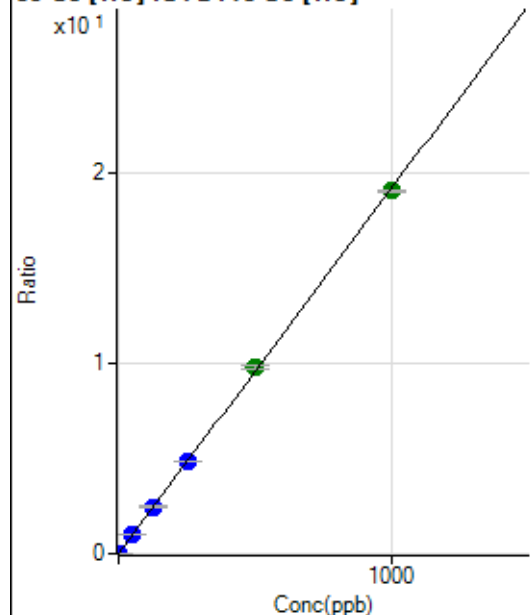
$$R = 0.9998$$

$$DL = 2.821$$

$$BEC = 4.09$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	65.56	0.0002	P	7.1
2	☐	1.000	0.850	4774.18	0.0166	P	8.8
3	☐	50.000	50.878	258636.54	0.9781	P	0.7
4	☐	125.000	127.707	632003.46	2.4546	P	2.2
5	☐	250.000	252.573	1242954.67	4.8544	P	0.1
6	☐	500.000	511.667	2563226.04	9.8338	A	1.5
7	☐	1000.000	993.141	5116172.15	19.0871	A	0.7
8	☐			12704.64	0.0486	P	4.5

$$y = 0.0192 * x + 2.4443\text{E-}004$$

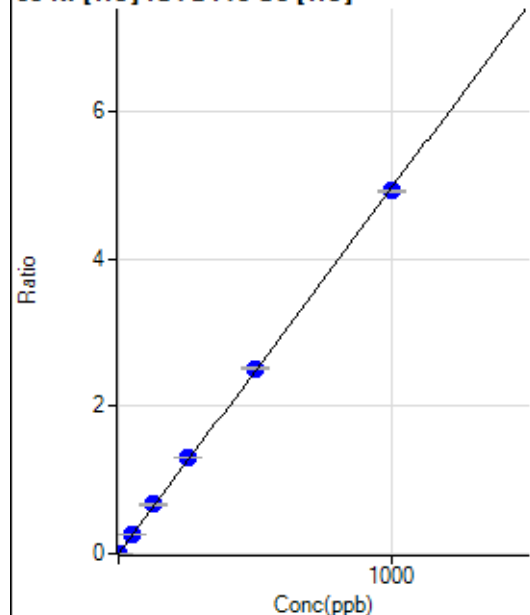
$$R = 0.9999$$

$$DL = 0.002709$$

$$BEC = 0.01272$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	47.78	0.0002	P	39.1
2	☐	1.000	0.977	1448.97	0.0050	P	7.8
3	☐	50.000	53.892	70802.11	0.2677	P	2.1
4	☐	125.000	134.476	171946.49	0.6678	P	2.3
5	☐	250.000	261.296	332205.65	1.2975	P	0.3
6	☐	500.000	506.506	655492.75	2.5149	P	0.7
7	☐	1000.000	992.544	1320921.64	4.9279	P	0.5
8	☐			9022.94	0.0345	P	1.8

$$y = 0.0050 * x + 1.7788E-004$$

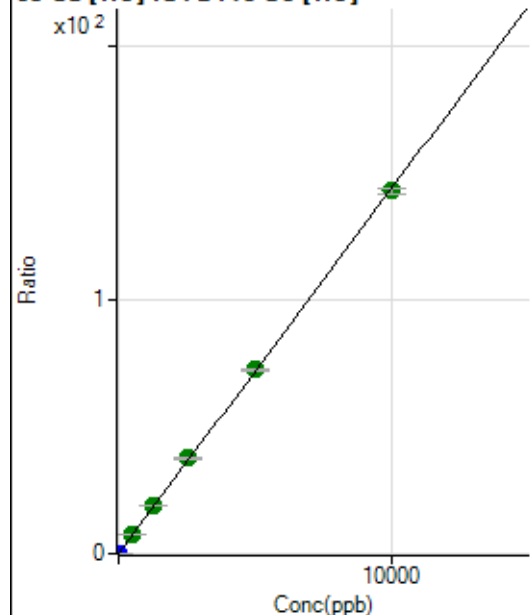
$$R = 0.9999$$

$$DL = 0.04206$$

$$BEC = 0.03583$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	844.48	0.0032	P	10.8
2	☐	2.000	1.841	8518.19	0.0296	P	6.8
3	☐	500.000	544.725	2069387.73	7.8255	A	1.5
4	☐	1250.000	1328.033	4911315.41	19.0739	A	1.9
5	☐	2500.000	2614.199	9613394.03	37.5435	A	0.9
6	☐	5000.000	5044.583	18881941.11	72.4443	A	1.4
7	☐	10000.000	9937.168	38251812.48	142.7027	A	1.6
8	☐			10827.57	0.0414	P	3.7

$$y = 0.0144 * x + 0.0032$$

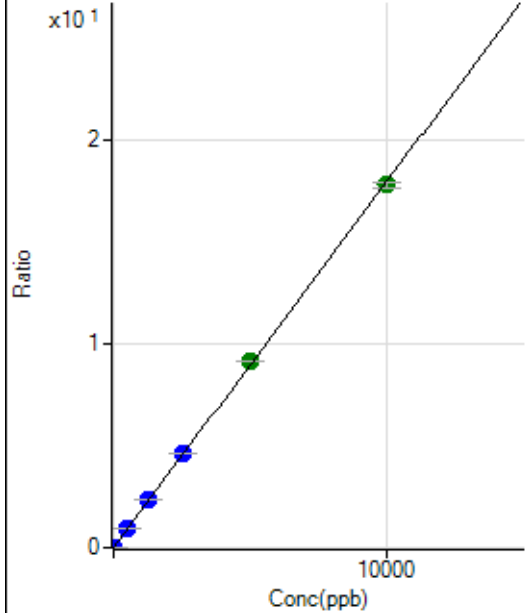
$$R = 0.9999$$

$$DL = 0.07133$$

$$BEC = 0.2194$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	181.11	0.0007	P	14.9
2	☐	2.000	1.856	1155.61	0.0040	P	5.7
3	☐	500.000	528.786	251005.15	0.9492	P	2.4
4	☐	1250.000	1316.868	608373.42	2.3628	P	2.1
5	☐	2500.000	2590.832	1190062.87	4.6480	P	0.6
6	☐	5000.000	5097.237	2383336.04	9.1438	A	0.8
7	☐	10000.000	9918.876	4768897.88	17.7926	A	1.8
8	☐			3670.51	0.0140	P	3.6

$$y = 0.0018 * x + 6.7549E-004$$

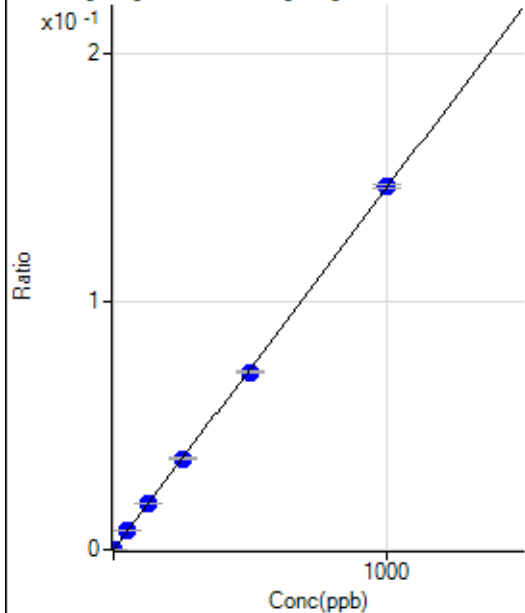
$$R = 0.9999$$

$$DL = 0.1678$$

$$BEC = 0.3766$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7.00	0.0000	P	56.4
2	☐	1.000	0.966	294.37	0.0001	P	5.6
3	☐	50.000	51.618	14338.37	0.0075	P	0.8
4	☐	125.000	128.077	34564.54	0.0187	P	2.9
5	☐	250.000	251.251	68207.28	0.0366	P	1.4
6	☐	500.000	491.835	135446.23	0.0716	P	1.7
7	☐	1000.000	1003.304	279630.08	0.1461	P	1.1
8	☐			99.68	0.0001	P	2.2

$$y = 1.4559E-004 * x + 3.6069E-006$$

$$R = 0.9999$$

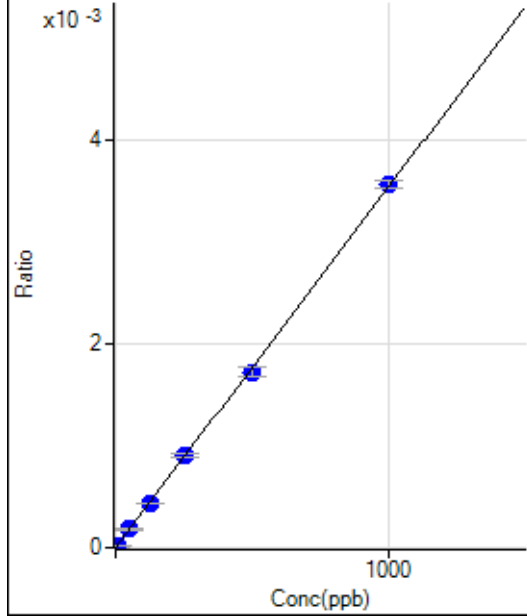
$$DL = 0.04194$$

$$BEC = 0.02477$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	4.158	31.11	0.0000	P	32.2
3	☐	50.000	52.743	356.67	0.0002	P	10.0
4	☐	125.000	123.550	811.14	0.0004	P	0.8
5	☐	250.000	253.818	1674.56	0.0009	P	4.0
6	☐	500.000	486.784	3255.97	0.0017	P	5.0
7	☐	1000.000	1005.702	6810.62	0.0036	P	2.2
8	☐			2.22	0.0000	P	86.6

$$y = 3.5364\text{E-}006 * x + 5.8566\text{E-}007$$

$$R = 0.9999$$

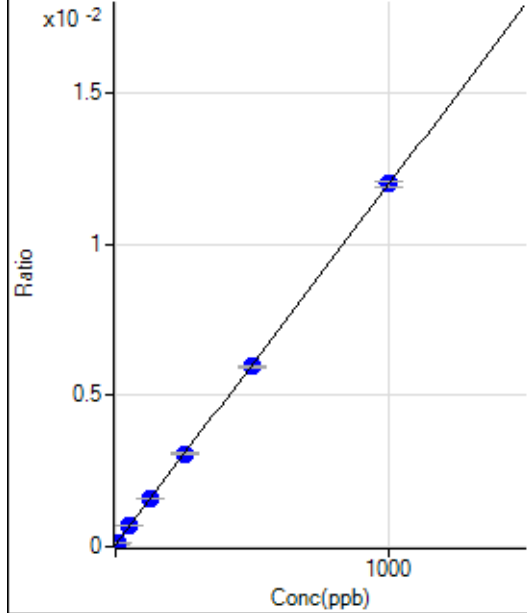
$$DL = 0.8605$$

$$BEC = 0.1656$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	126.34	0.0001	P	2.3
2	☐	5.000	4.154	235.03	0.0001	P	4.7
3	☐	50.000	51.636	1299.19	0.0007	P	2.7
4	☐	125.000	127.665	2943.28	0.0016	P	1.8
5	☐	250.000	253.305	5753.76	0.0031	P	2.3
6	☐	500.000	494.381	11276.65	0.0060	P	0.8
7	☐	1000.000	1001.573	22987.66	0.0120	P	1.7
8	☐			119.68	0.0001	P	11.5

$$y = 1.1925\text{E-}005 * x + 6.5404\text{E-}005$$

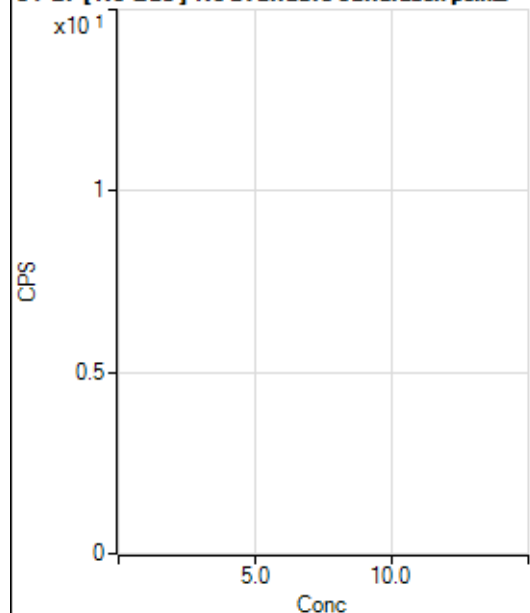
$$R = 1.0000$$

$$DL = 0.3753$$

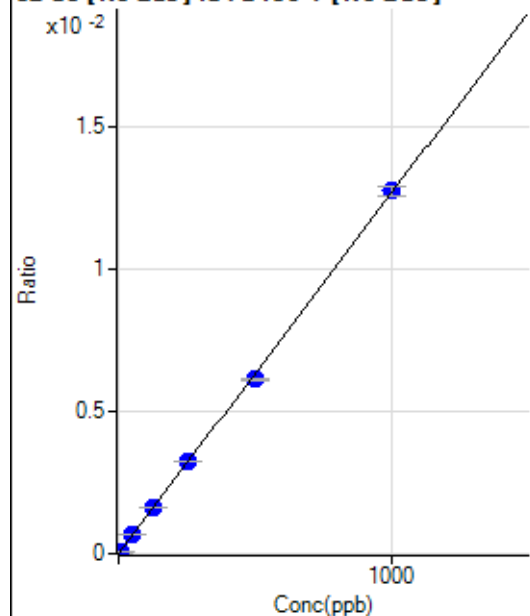
$$BEC = 5.485$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			75340.39		P	3.8
2	☐			76214.68		P	2.3
3	☐			73554.16		P	2.3
4	☐			71590.95		P	3.2
5	☐			71470.62		P	4.7
6	☐			70816.77		P	2.8
7	☐			77037.08		P	4.5
8	☐			68783.89		P	4.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-170.96	0.0000	P	-68.
2	☐	5.000	4.757	897.32	0.0001	P	41.4
3	☐	50.000	52.664	11852.34	0.0007	P	4.4
4	☐	125.000	126.890	28447.61	0.0016	P	2.1
5	☐	250.000	257.363	58206.70	0.0033	P	0.2
6	☐	500.000	484.022	111922.33	0.0061	P	1.0
7	☐	1000.000	1005.780	235318.99	0.0128	P	2.7
8	☐			157.60	0.0000	P	81.7

$$y = 1.2697E-005 * x - 9.8922E-006$$

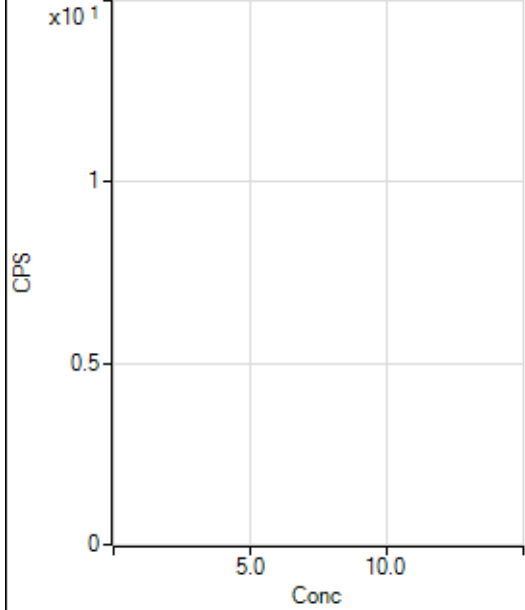
$$R = 0.9998$$

$$DL = 1.602$$

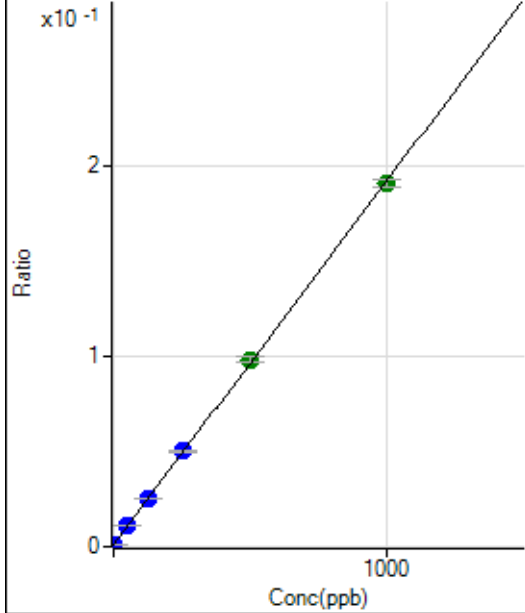
$$BEC = -0.7791$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11648.39		P	1.4
2	☐			11711.35		P	1.8
3	☐			11531.21		P	0.8
4	☐			11421.14		P	0.5
5	☐			11255.19		P	1.1
6	☐			11162.21		P	1.2
7	☐			11184.74		P	2.6
8	☐			11055.48		P	0.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	17878.53	0.0010	P	4.7
2	☐	1.000	0.849	21133.09	0.0012	P	1.4
3	☐	50.000	51.123	194376.17	0.0108	P	2.8
4	☐	125.000	128.216	453963.50	0.0255	P	0.9
5	☐	250.000	256.760	895654.34	0.0501	P	0.6
6	☐	500.000	509.945	1797750.06	0.0986	A	2.7
7	☐	1000.000	992.880	3521267.14	0.1909	A	2.1
8	☐			40100.08	0.0023	P	0.4

$$y = 1.9126E-004 * x + 0.0010$$

$$R = 0.9999$$

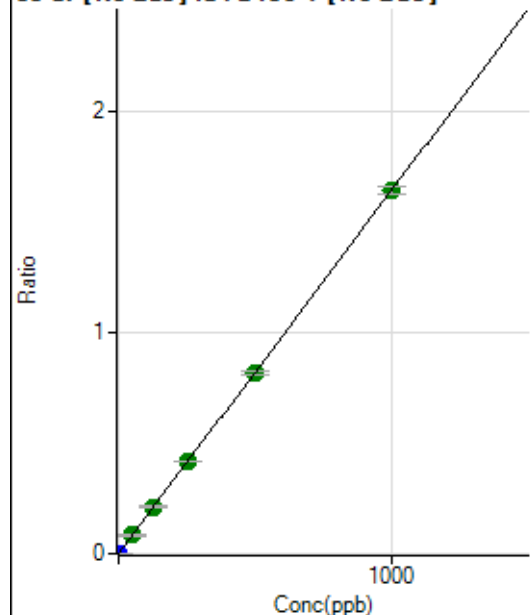
$$DL = 0.7503$$

$$BEC = 5.348$$

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	305.57	0.0000	P	27.3
2	☐	1.000	0.936	27697.68	0.0016	P	1.5
3	☐	50.000	51.078	1508067.32	0.0838	A	3.9
4	☐	125.000	128.336	3740904.47	0.2106	A	2.5
5	☐	250.000	256.358	7514897.74	0.4206	A	0.2
6	☐	500.000	497.972	14902464.05	0.8170	A	2.0
7	☐	1000.000	998.954	30226847.55	1.6389	A	2.2
8	☐			196633.31	0.0113	P	1.2

$$y = 0.0016 * x + 1.7548E-005$$

$$R = 1.0000$$

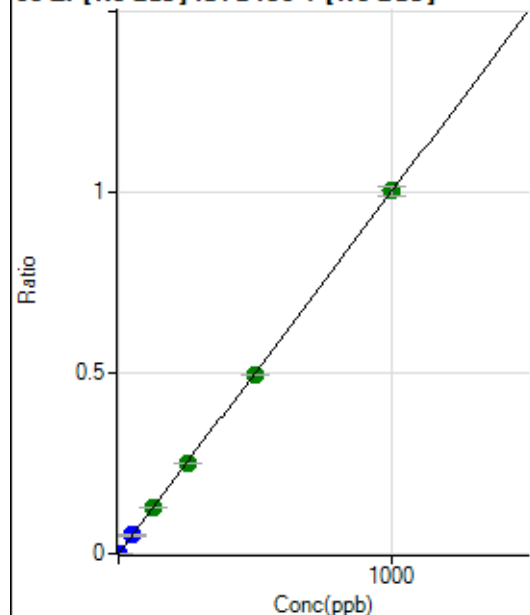
$$DL = 0.008761$$

$$BEC = 0.0107$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	697.26	0.0000	P	13.2
2	☐	1.000	0.952	17700.66	0.0010	P	1.3
3	☐	50.000	50.798	915500.97	0.0509	P	2.4
4	☐	125.000	128.145	2279125.72	0.1283	A	2.0
5	☐	250.000	249.411	4458934.65	0.2496	A	1.8
6	☐	500.000	494.028	9017180.76	0.4943	A	0.9
7	☐	1000.000	1002.700	18502148.16	1.0033	A	2.6
8	☐			9817.66	0.0006	P	1.2

$$y = 0.0010 * x + 3.9870E-005$$

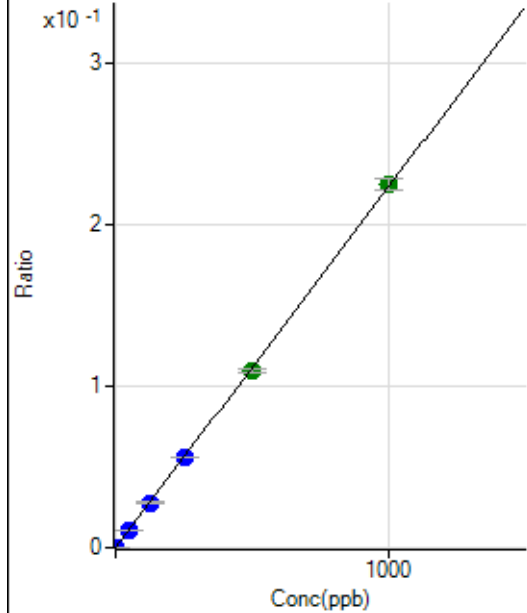
$$R = 1.0000$$

$$DL = 0.01584$$

$$BEC = 0.03985$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	172.23	0.0000	P	8.1
2	☐	1.000	0.921	3847.85	0.0002	P	2.1
3	☐	50.000	49.397	198946.20	0.0111	P	2.6
4	☐	125.000	125.187	497489.85	0.0280	P	1.4
5	☐	250.000	249.726	997665.95	0.0558	P	1.1
6	☐	500.000	488.968	1994449.67	0.1093	A	2.5
7	☐	1000.000	1005.591	4145894.45	0.2248	A	3.2
8	☐			2066.88	0.0001	P	6.8

$$y = 2.2357\text{E-}004 * x + 9.8519\text{E-}006$$

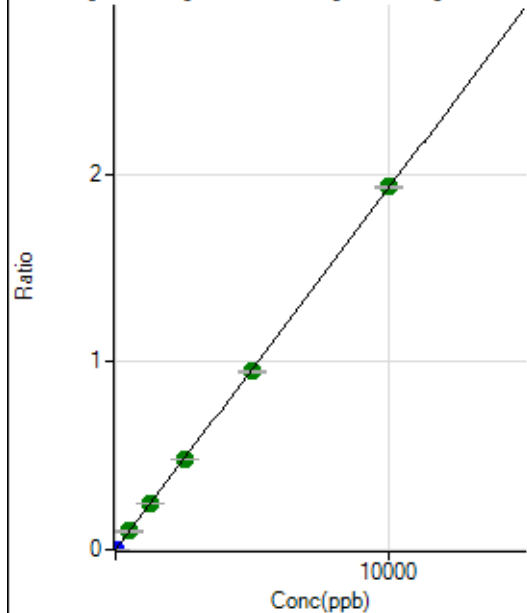
$$R = 0.9999$$

$$DL = 0.0107$$

$$BEC = 0.04407$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	211.12	0.0000	P	17.5
2	☐	5.000	5.586	19380.77	0.0011	P	2.8
3	☐	500.000	508.735	1761693.77	0.0979	A	3.9
4	☐	1250.000	1272.016	4349344.89	0.2448	A	2.0
5	☐	2500.000	2492.904	8571666.51	0.4798	A	0.1
6	☐	5000.000	4922.616	17281305.77	0.9473	A	0.4
7	☐	10000.000	10037.277	35636396.28	1.9316	A	0.4
8	☐			12756.20	0.0007	P	2.1

$$y = 1.9244\text{E-}004 * x + 1.2044\text{E-}005$$

$$R = 1.0000$$

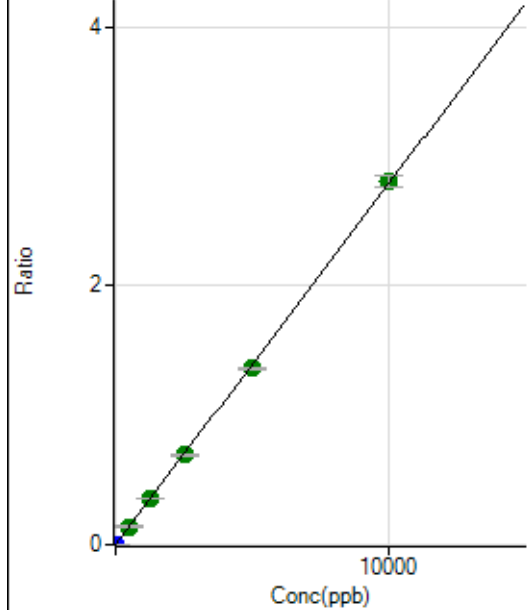
$$DL = 0.03291$$

$$BEC = 0.06259$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.89	0.0000	P	36.0
2	☐	5.000	4.783	23770.90	0.0013	P	3.7
3	☐	500.000	504.395	2528570.06	0.1406	A	4.5
4	☐	1250.000	1269.572	6285321.36	0.3538	A	2.2
5	☐	2500.000	2480.731	12350609.31	0.6913	A	1.2
6	☐	5000.000	4886.566	24840559.06	1.3617	A	1.3
7	☐	10000.000	10058.868	51687608.79	2.8030	A	3.1
8	☐			13854.51	0.0008	P	2.9

$$y = 2.7866E-004 * x + 7.9761E-007$$

$$R = 0.9999$$

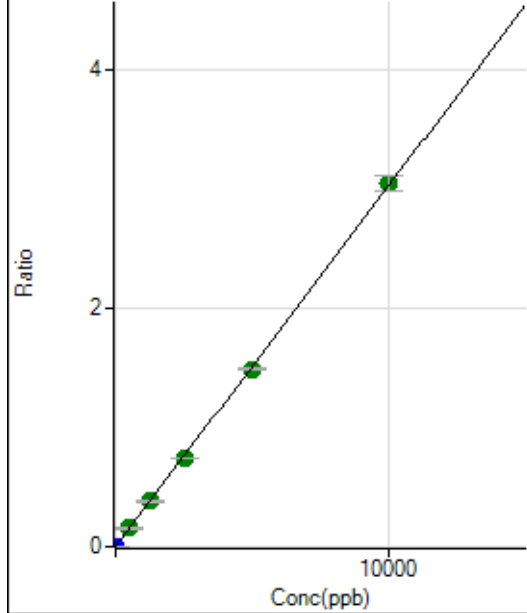
$$DL = 0.003092$$

$$BEC = 0.002862$$

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	422.24	0.0000	P	15.8
2	☐	5.000	4.931	27096.41	0.0015	P	0.6
3	☐	500.000	507.961	2772424.22	0.1541	A	4.2
4	☐	1250.000	1259.011	6785225.80	0.3819	A	1.5
5	☐	2500.000	2460.502	13333685.11	0.7463	A	1.3
6	☐	5000.000	4911.583	27175031.51	1.4897	A	0.9
7	☐	10000.000	10052.558	56208540.84	3.0489	A	4.4
8	☐			44266.91	0.0025	P	1.1

$$y = 3.0329E-004 * x + 2.4064E-005$$

$$R = 0.9999$$

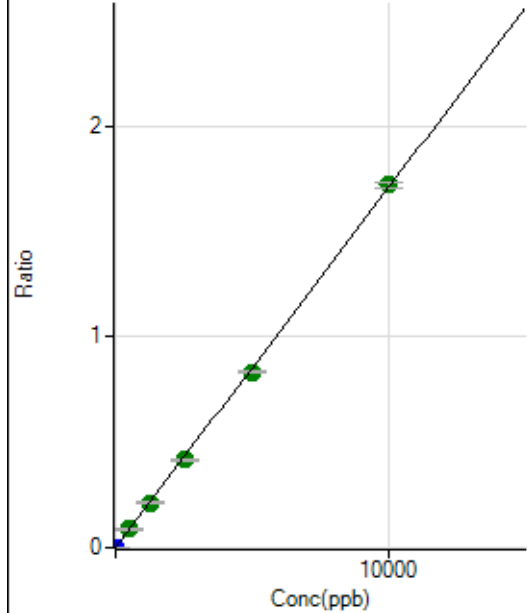
$$DL = 0.03752$$

$$BEC = 0.07934$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11.11	0.0000	P	46.6
2	☐	5.000	4.809	14658.20	0.0008	P	2.2
3	☐	500.000	510.066	1567984.82	0.0871	A	3.0
4	☐	1250.000	1241.378	3767619.09	0.2121	A	2.4
5	☐	2500.000	2444.631	7460875.60	0.4176	A	1.5
6	☐	5000.000	4873.242	15185440.44	0.8325	A	0.8
7	☐	10000.000	10077.796	31751771.20	1.7215	A	1.9
8	☐			8833.63	0.0005	P	2.9

$$y = 1.7082\text{E-}004 * x + 6.4078\text{E-}007$$

$$R = 0.9999$$

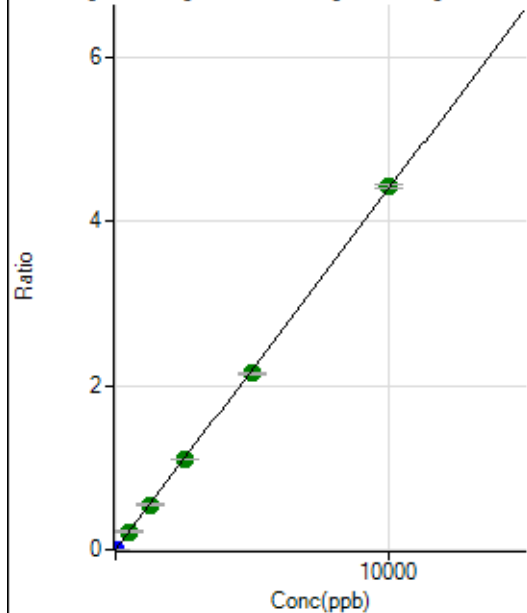
$$DL = 0.005243$$

$$BEC = 0.003751$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	119.45	0.0000	P	13.6
2	☐	5.000	4.841	38069.92	0.0021	P	2.6
3	☐	500.000	495.009	3916041.06	0.2177	A	4.9
4	☐	1250.000	1250.310	9766797.70	0.5498	A	3.8
5	☐	2500.000	2487.199	19541094.54	1.0937	A	0.3
6	☐	5000.000	4895.614	39274470.32	2.1528	A	1.0
7	☐	10000.000	10055.604	81567667.79	4.4218	A	1.2
8	☐			21425.45	0.0012	P	5.7

$$y = 4.3974\text{E-}004 * x + 6.8458\text{E-}006$$

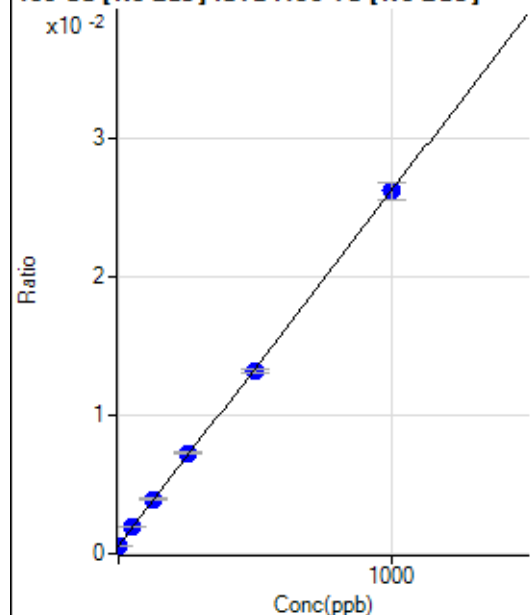
$$R = 0.9999$$

$$DL = 0.006367$$

$$BEC = 0.01557$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6115.39	0.0006	P	5.1
2	☐	1.000	-0.493	6282.16	0.0006	P	1.1
3	☐	50.000	53.943	20857.95	0.0020	P	4.5
4	☐	125.000	131.334	42856.42	0.0040	P	1.4
5	☐	250.000	261.160	80821.79	0.0073	P	1.0
6	☐	500.000	493.440	149590.06	0.0132	P	2.0
7	☐	1000.000	999.502	301970.25	0.0262	P	4.8
8	☐			5787.48	0.0005	P	4.6

$$y = 2.5670\text{E-}005 * x + 5.8080\text{E-}004$$

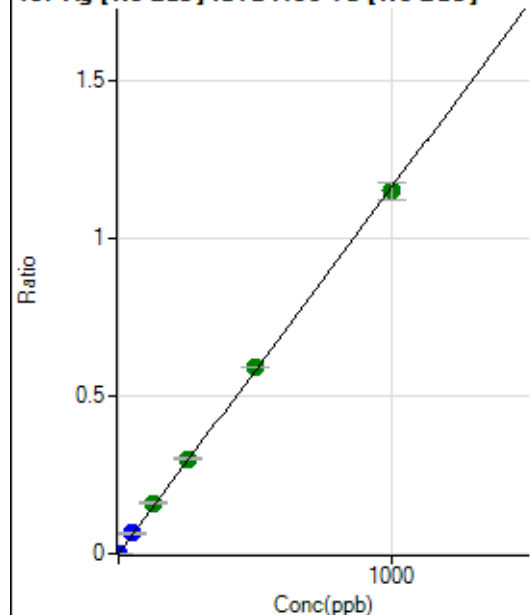
$$R = 0.9999$$

$$DL = 3.453$$

$$BEC = 22.63$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.11	0.0000	P	7.4
2	☐	1.000	0.989	12834.16	0.0012	P	0.8
3	☐	50.000	56.160	691239.92	0.0652	P	4.8
4	☐	125.000	137.490	1729897.80	0.1595	A	2.9
5	☐	250.000	259.888	3345730.13	0.3016	A	1.2
6	☐	500.000	509.413	6674497.24	0.5911	A	0.7
7	☐	1000.000	990.952	13232959.84	1.1498	A	4.6
8	☐			4278.57	0.0004	P	6.1

$$y = 0.0012 * x + 1.2903\text{E-}005$$

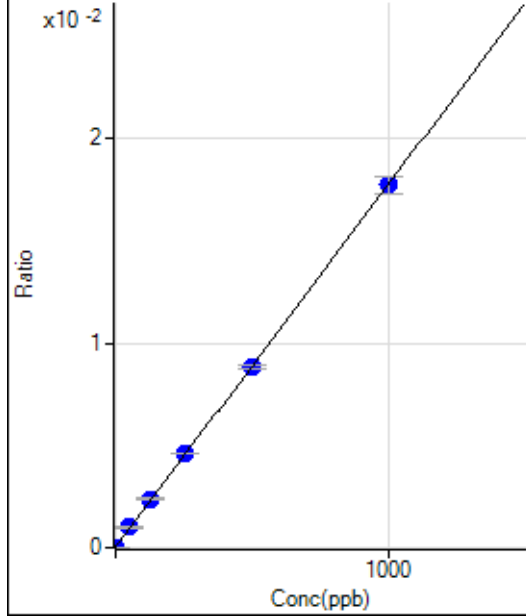
$$R = 0.9998$$

$$DL = 0.002479$$

$$BEC = 0.01112$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	204.17	0.0000	P	14.9
2	☐	1.000	1.022	415.29	0.0000	P	15.9
3	☐	50.000	55.356	10608.40	0.0010	P	7.3
4	☐	125.000	133.862	25944.02	0.0024	P	2.3
5	☐	250.000	257.794	50923.18	0.0046	P	1.2
6	☐	500.000	496.847	99687.43	0.0088	P	1.6
7	☐	1000.000	998.253	203881.64	0.0177	P	5.1
8	☐			254.17	0.0000	P	14.7

$$y = 1.7729E-005 * x + 1.9432E-005$$

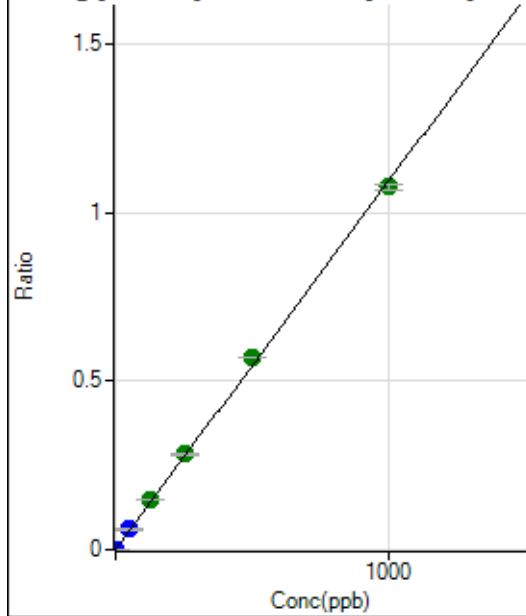
$$R = 0.9999$$

$$DL = 0.4904$$

$$BEC = 1.096$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	50.00	0.0000	P	4.6
2	☐	1.000	1.055	12806.35	0.0012	P	4.0
3	☐	50.000	56.017	649460.13	0.0612	P	4.7
4	☐	125.000	135.916	1610904.02	0.1486	A	3.1
5	☐	250.000	259.442	3146245.75	0.2836	A	2.1
6	☐	500.000	521.901	6442178.23	0.5705	A	0.5
7	☐	1000.000	985.024	12402030.75	1.0767	A	1.7
8	☐			3742.28	0.0003	P	8.8

$$y = 0.0011 * x + 4.7482E-006$$

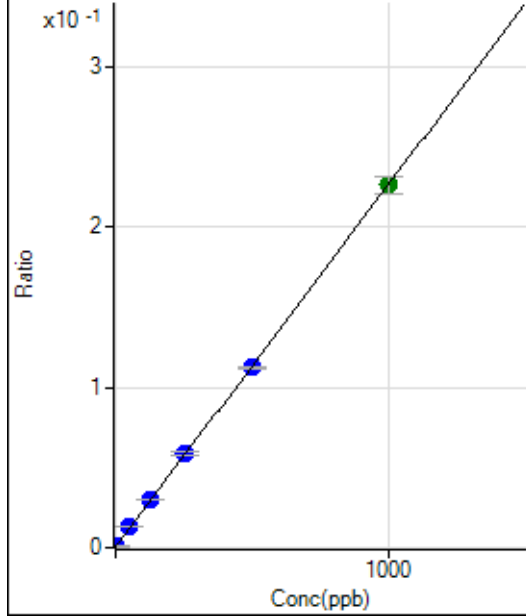
$$R = 0.9996$$

$$DL = 0.000603$$

$$BEC = 0.004344$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4192.02	0.0004	P	4.8
2	☐	1.000	0.912	6683.47	0.0006	P	3.0
3	☐	50.000	54.852	135899.51	0.0128	P	3.1
4	☐	125.000	132.160	328543.07	0.0303	P	1.5
5	☐	250.000	258.211	652483.92	0.0588	P	2.1
6	☐	500.000	495.747	1271132.36	0.1126	P	0.8
7	☐	1000.000	998.936	2605490.97	0.2264	A	5.0
8	☐			4515.01	0.0004	P	2.5

$$y = 2.2625\text{E-}004 * x + 3.9808\text{E-}004$$

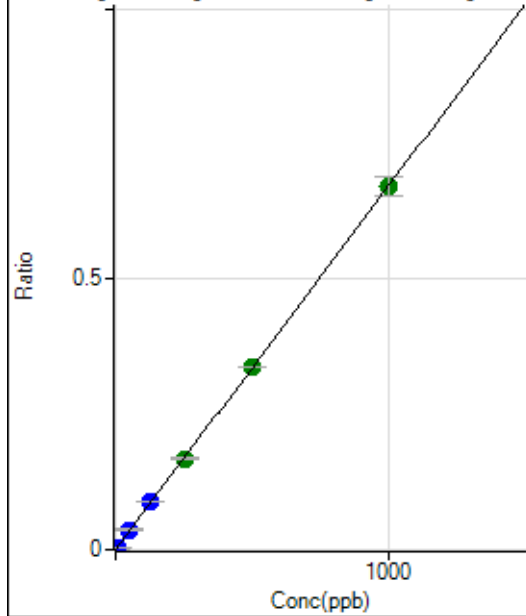
$$R = 0.9999$$

$$DL = 0.2509$$

$$BEC = 1.759$$

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	1589.03	0.0002	P	2.6
2	☐	5.000	4.761	37073.35	0.0034	P	1.2
3	☐	50.000	54.765	392334.20	0.0370	P	4.3
4	☐	125.000	131.450	960390.73	0.0886	P	0.6
5	☐	250.000	250.709	1872791.78	0.1688	A	1.4
6	☐	500.000	502.230	3816486.93	0.3380	A	0.8
7	☐	1000.000	997.664	7723126.47	0.6712	A	5.4
8	☐			5431.79	0.0005	P	1.7

$$y = 6.7261\text{E-}004 * x + 1.5078\text{E-}004$$

$$R = 1.0000$$

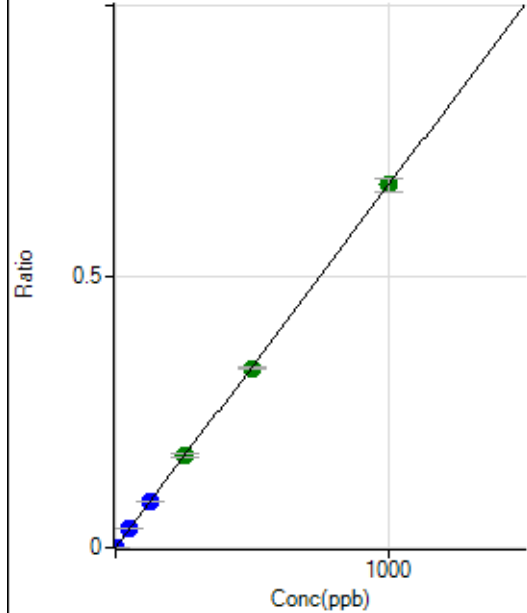
$$DL = 0.01773$$

$$BEC = 0.2242$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	50.00	0.0000	P	42.2
2	☐	2.000	1.856	13787.86	0.0012	P	0.7
3	☐	50.000	52.969	376159.48	0.0355	P	4.1
4	☐	125.000	128.574	933331.17	0.0861	P	1.2
5	☐	250.000	255.266	1895428.23	0.1709	A	2.9
6	☐	500.000	494.595	3738746.44	0.3311	A	1.1
7	☐	1000.000	1000.791	7712689.24	0.6699	A	3.5
8	☐			4314.71	0.0004	P	7.4

$$y = 6.6938\text{E-}004 * x + 4.7161\text{E-}006$$

$$R = 1.0000$$

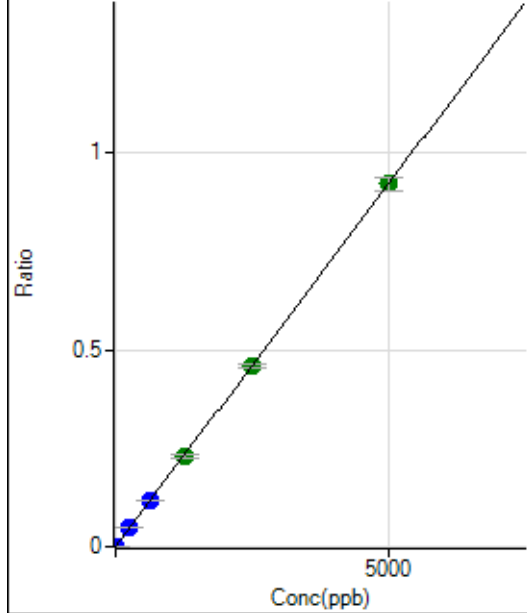
$$DL = 0.008929$$

$$BEC = 0.007046$$

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	50.00	0.0000	P	32.0
2	☐	10.000	9.035	18454.73	0.0017	P	1.6
3	☐	250.000	257.146	502604.18	0.0474	P	3.0
4	☐	625.000	632.543	1263477.03	0.1165	P	0.2
5	☐	1250.000	1242.436	2538556.56	0.2288	A	2.8
6	☐	2500.000	2500.470	5201064.96	0.4606	A	1.9
7	☐	5000.000	5000.358	10602964.21	0.9210	A	3.6
8	☐			4931.60	0.0005	P	2.0

$$y = 1.8419\text{E-}004 * x + 4.7387\text{E-}006$$

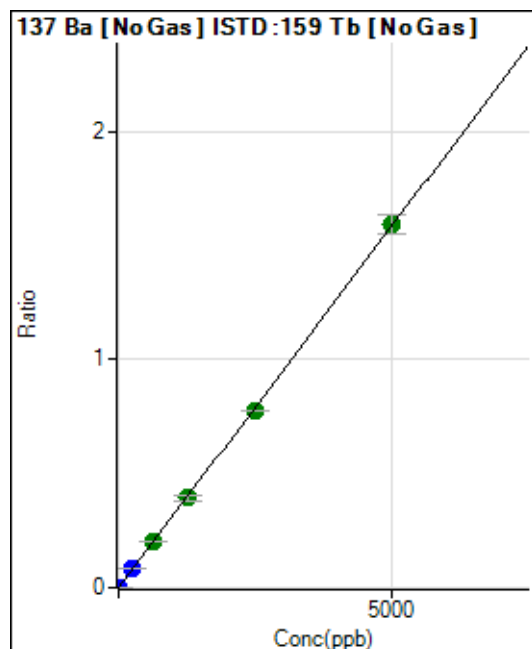
$$R = 1.0000$$

$$DL = 0.02469$$

$$BEC = 0.02573$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	42.3
2	☐	10.000	9.322	32637.37	0.0030	P	3.1
3	☐	250.000	264.971	889416.96	0.0838	P	4.1
4	☐	625.000	641.379	2200586.72	0.2029	A	1.1
5	☐	1250.000	1241.048	4354898.10	0.3927	A	4.8
6	☐	2500.000	2452.117	8761384.66	0.7759	A	0.6
7	☐	5000.000	5023.385	18291014.99	1.5894	A	5.3
8	☐			8614.07	0.0008	P	4.4

$$y = 3.1641\text{E-}004 * x + 2.6057\text{E-}006$$

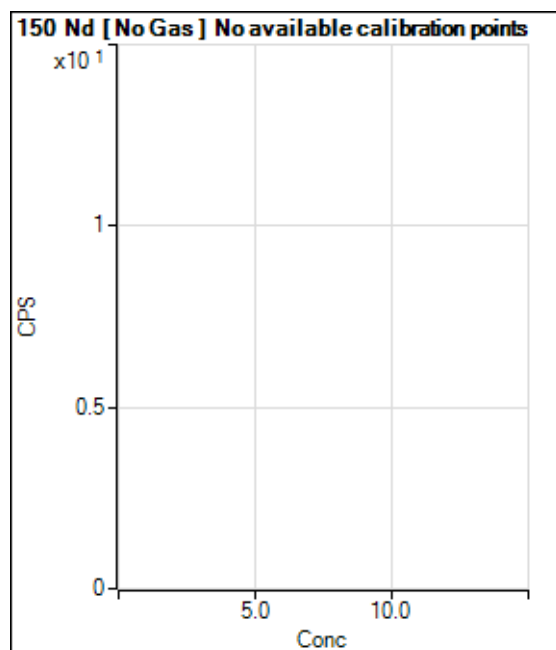
$$R = 0.9999$$

$$DL = 0.01044$$

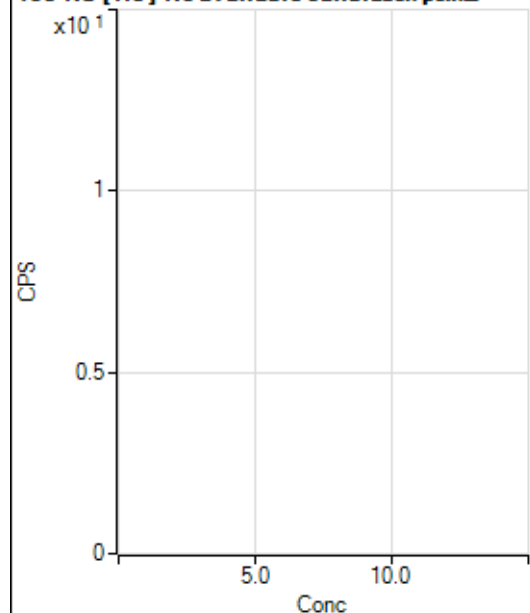
$$BEC = 0.008235$$

Weight: <None>

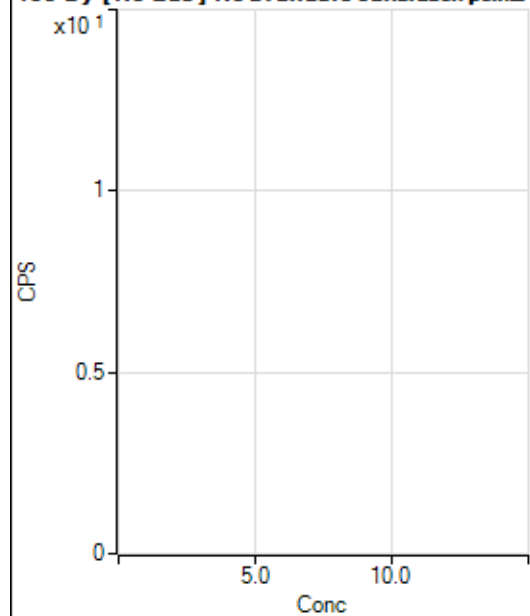
Min Conc: 0



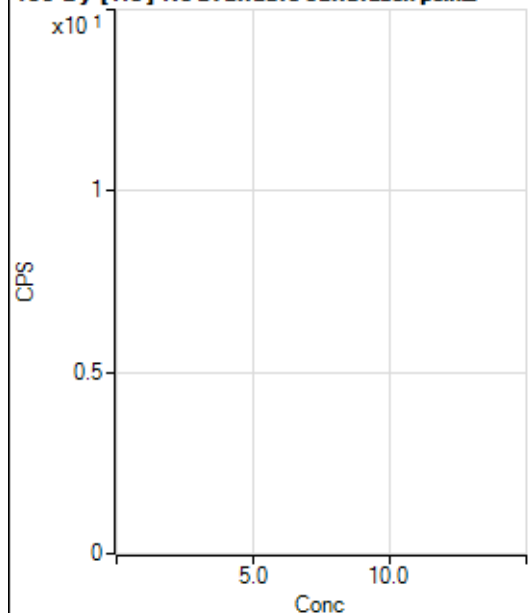
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			20.00		P	66.7
2	☐			8.89		P	114.
3	☐			60.00		P	50.9
4	☐			128.89		P	20.9
5	☐			202.23		P	36.3
6	☐			424.46		P	4.8
7	☐			820.05		P	2.9
8	☐			142.23		P	23.1

150 Nd [He] No available calibration points

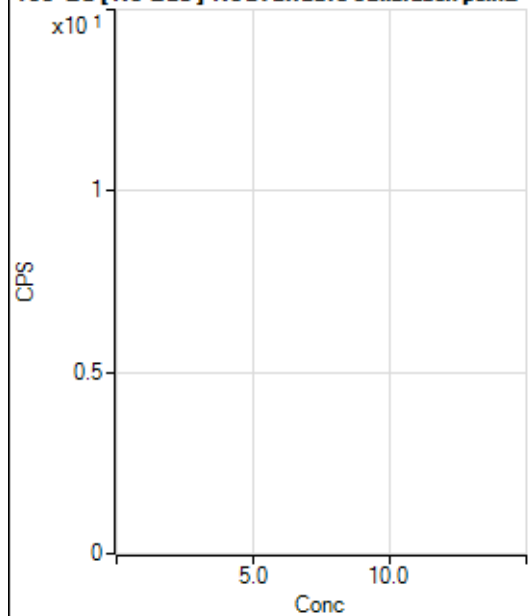
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			3.33		P	173.
3	☐			2.22		P	86.6
4	☐			11.11		P	17.3
5	☐			13.33		P	66.2
6	☐			24.45		P	43.8
7	☐			42.22		P	16.4
8	☐			30.00		P	50.9

156 Dy [No Gas] No available calibration points

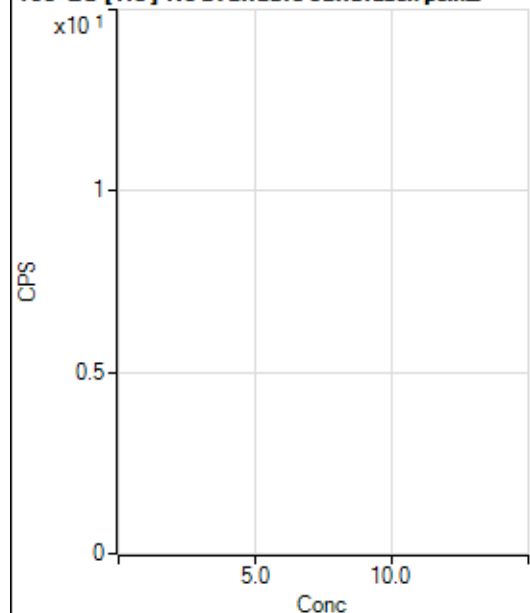
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	173.
2	☐			2.78		P	173.
3	☐			44.44		P	54.1
4	☐			105.56		P	22.8
5	☐			152.78		P	22.0
6	☐			294.46		P	16.1
7	☐			516.69		P	5.8
8	☐			963.95		P	5.6

156 Dy [He] No available calibration points

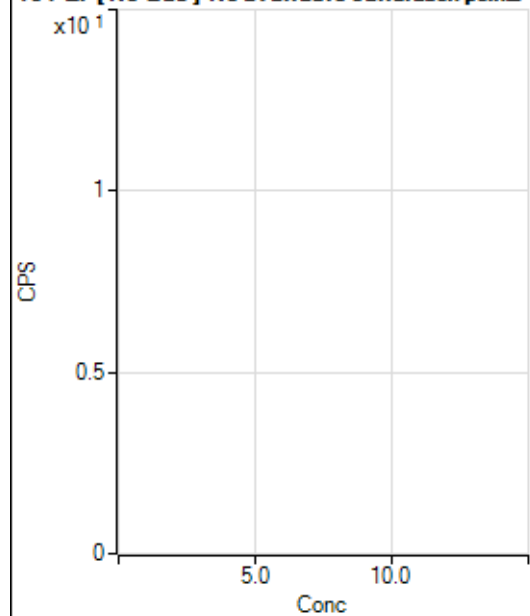
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			10.00		P	115.
3	☐			11.11		P	75.5
4	☐			22.22		P	48.2
5	☐			42.22		P	43.5
6	☐			98.89		P	28.3
7	☐			173.34		P	7.7
8	☐			312.23		P	4.8

160 Gd [No Gas] Noavailable calibration poin_

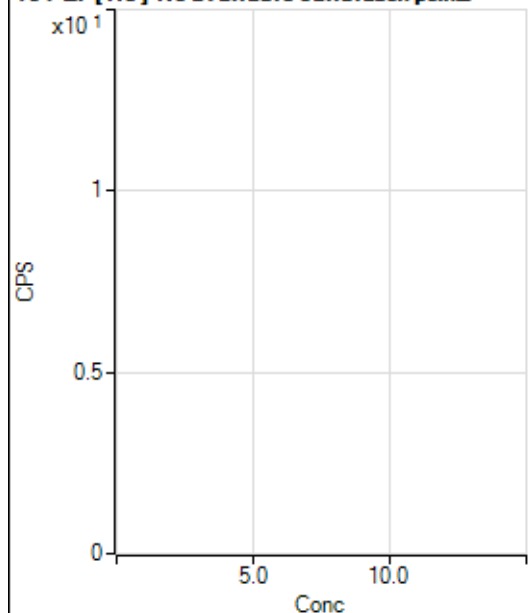
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			105.56		P	35.6
2	☐			69.45		P	45.4
3	☐			100.00		P	16.7
4	☐			119.45		P	31.5
5	☐			183.34		P	19.8
6	☐			258.34		P	12.9
7	☐			455.58		P	12.5
8	☐			669.48		P	6.1

160 Gd [He] No available calibration points

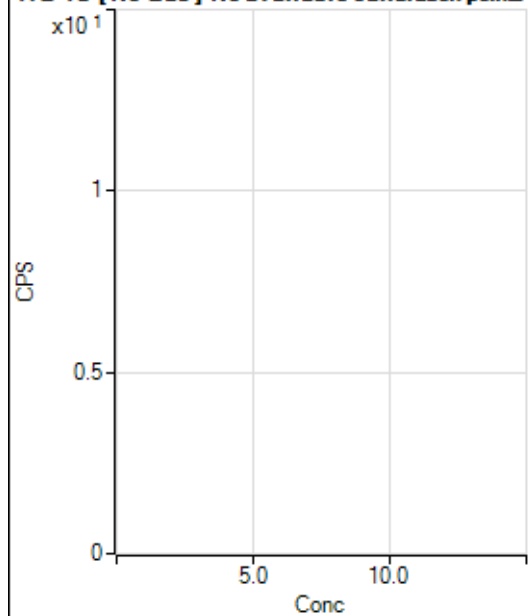
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			95.56		P	17.6
2	☐			97.78		P	17.2
3	☐			75.56		P	28.7
4	☐			130.00		P	13.6
5	☐			98.89		P	19.2
6	☐			150.00		P	10.2
7	☐			263.34		P	19.2
8	☐			365.56		P	17.2

164 Er [No Gas] No available calibration points

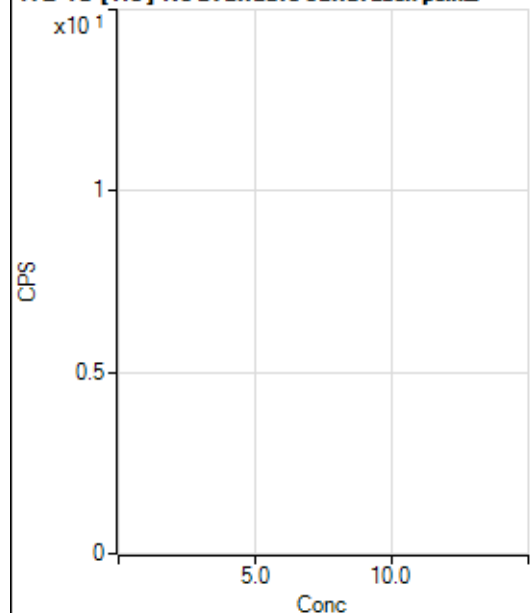
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			91.67		P	18.2
2	☐			69.45		P	36.7
3	☐			94.45		P	89.3
4	☐			86.11		P	55.9
5	☐			105.56		P	9.1
6	☐			119.45		P	10.7
7	☐			197.23		P	23.3
8	☐			108.33		P	26.6

164 Er [He] No available calibration points

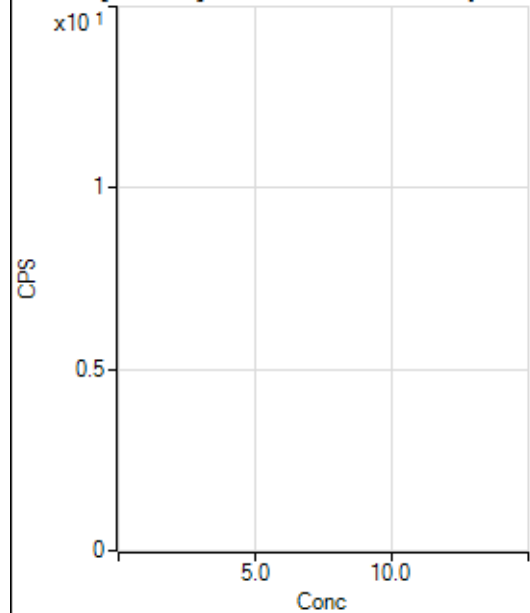
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.00		P	0.0
2	☐			22.22		P	8.7
3	☐			32.22		P	43.1
4	☐			42.22		P	9.1
5	☐			30.00		P	48.4
6	☐			47.78		P	28.2
7	☐			81.11		P	14.4
8	☐			56.67		P	25.6

172 Yb [No Gas] No available calibration points

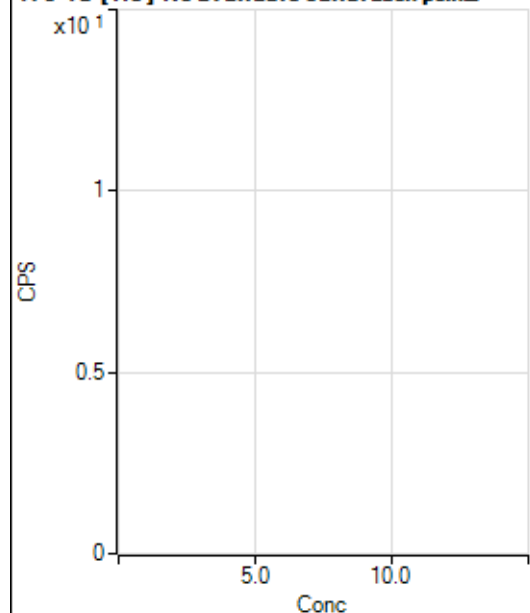
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.67		P	33.1
2	☐			47.22		P	56.7
3	☐			58.33		P	62.3
4	☐			66.67		P	25.0
5	☐			69.44		P	27.7
6	☐			94.45		P	10.2
7	☐			133.34		P	34.8
8	☐			216.68		P	3.8

172 Yb [He] No available calibration points

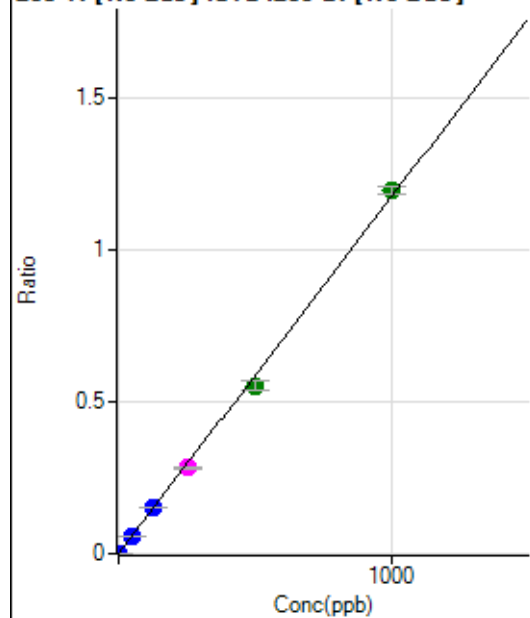
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			31.48		P	10.2
2	☐			24.08		P	26.6
3	☐			29.63		P	21.7
4	☐			40.74		P	15.8
5	☐			35.19		P	24.1
6	☐			40.74		P	41.7
7	☐			70.37		P	25.4
8	☐			94.45		P	10.2

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1733.50		P	6.7
2	☐			1714.06		P	0.3
3	☐			3203.26		P	0.7
4	☐			5351.24		P	3.0
5	☐			8956.11		P	0.9
6	☐			16730.52		P	4.9
7	☐			33003.37		P	3.4
8	☐			1639.04		P	4.9

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6346.09		P	4.1
2	☐			6924.19		P	11.2
3	☐			6944.55		P	8.2
4	☐			7806.18		P	3.8
5	☐			9479.49		P	2.5
6	☐			12708.15		P	2.1
7	☐			20299.24		P	1.4
8	☐			6158.96		P	2.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	450.02	0.0001	P	0.8
2	☐	1.000	0.903	6643.59	0.0011	P	3.2
3	☐	50.000	49.274	323571.51	0.0579	P	3.7
4	☐	125.000	129.083	865139.10	0.1515	P	2.3
5	☐	250.000	240.423	1667034.26	0.2821	M	3.6
6	☐	500.000	470.519	3390264.85	0.5521	A	6.3
7	☐	1000.000	1016.661	7037000.77	1.1928	A	2.2
8	☐			2594.79	0.0005	P	4.0

$$y = 0.0012 * x + 7.8466E-005$$

$$R = 0.9993$$

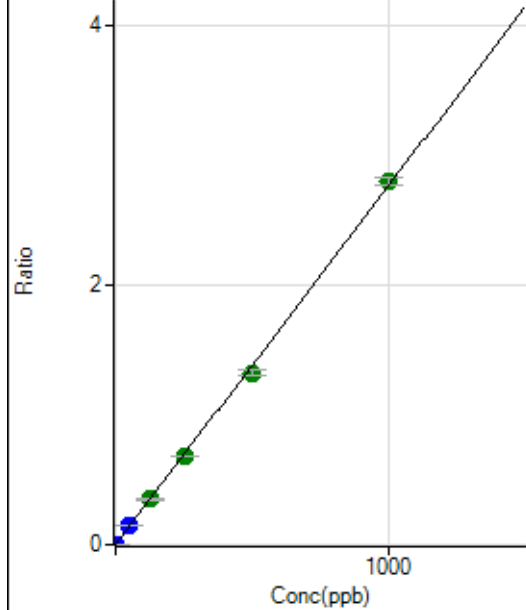
$$DL = 0.001704$$

$$BEC = 0.06688$$

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	1269.55	0.0002	P	3.8
2	☐	1.000	0.887	15618.26	0.0027	P	2.9
3	☐	50.000	51.871	803287.43	0.1437	P	0.2
4	☐	125.000	126.144	1993034.53	0.3491	A	3.4
5	☐	250.000	246.979	4037517.71	0.6833	A	1.1
6	☐	500.000	478.543	8133579.09	1.3237	A	3.5
7	☐	1000.000	1011.247	16504770.16	2.7970	A	2.1
8	☐			5971.00	0.0012	P	2.8

$$y = 0.0028 * x + 2.2136E-004$$

$$R = 0.9996$$

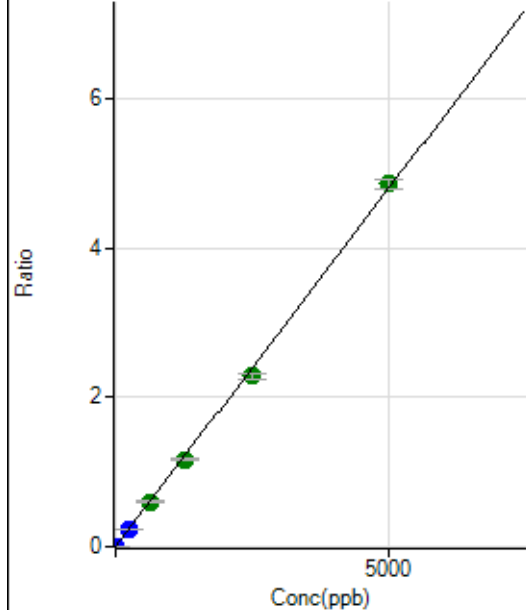
$$DL = 0.009222$$

$$BEC = 0.08004$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	620.40	0.0001	P	12.7
2	☐	1.000	0.850	5395.67	0.0009	P	4.8
3	☐	250.000	245.697	1318165.48	0.2358	P	0.9
4	☐	625.000	621.250	3402643.77	0.5960	A	3.6
5	☐	1250.000	1214.370	6882905.48	1.1650	A	2.4
6	☐	2500.000	2382.875	14047283.76	2.2859	A	3.1
7	☐	5000.000	5068.154	28680702.49	4.8617	A	2.6
8	☐			5971.87	0.0012	P	7.1

$$y = 9.5924E-004 * x + 1.0812E-004$$

$$R = 0.9996$$

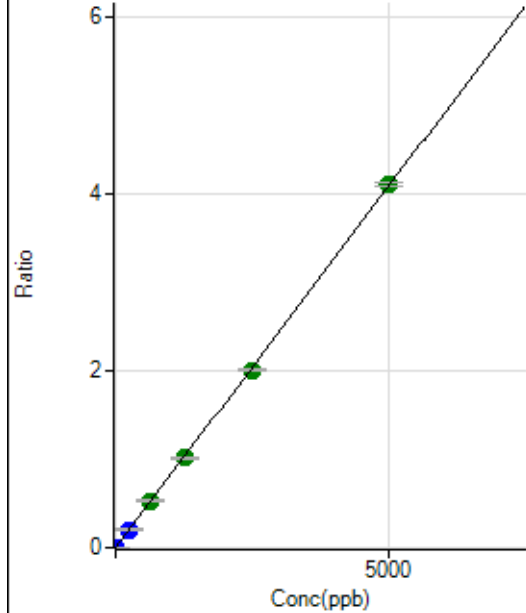
$$DL = 0.04308$$

$$BEC = 0.1127$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	479.65	0.0001	P	4.9
2	☐	1.000	0.864	4610.17	0.0008	P	12.0
3	☐	250.000	250.507	1145999.99	0.2050	P	2.6
4	☐	625.000	647.980	3027161.70	0.5301	A	2.7
5	☐	1250.000	1240.523	5995988.04	1.0148	A	1.3
6	☐	2500.000	2456.376	12350037.08	2.0093	A	1.5
7	☐	5000.000	5021.283	24230876.70	4.1073	A	1.1
8	☐			5128.88	0.0011	P	2.8

$$y = 8.1797\text{E-}004 * x + 8.3763\text{E-}005$$

$$R = 0.9999$$

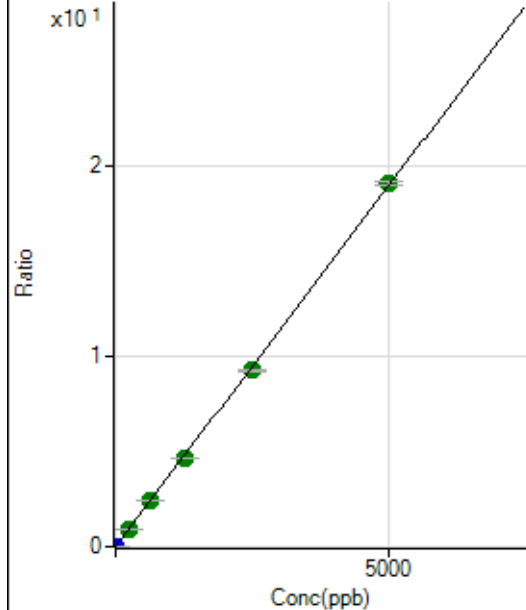
$$DL = 0.01513$$

$$BEC = 0.1024$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2326.05	0.0004	P	5.0
2	☐	1.000	0.880	21783.65	0.0037	P	4.0
3	☐	250.000	251.470	5313218.51	0.9504	A	0.8
4	☐	625.000	638.667	13781007.89	2.4131	A	0.9
5	☐	1250.000	1226.205	27371462.48	4.6326	A	1.6
6	☐	2500.000	2443.073	56740653.00	9.2295	A	0.6
7	☐	5000.000	5032.630	112159273.1	19.0120	A	1.1
8	☐			23141.81	0.0047	P	4.5

$$y = 0.0038 * x + 4.0575\text{E-}004$$

$$R = 0.9999$$

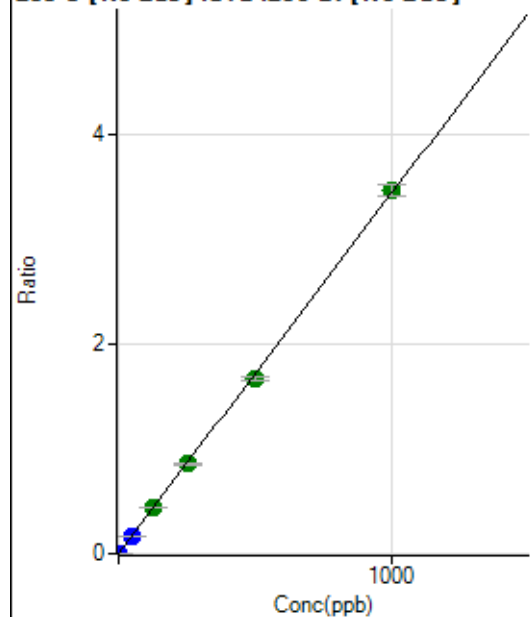
$$DL = 0.01612$$

$$BEC = 0.1074$$

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	30.56	0.0000	P	42.0
2	☐	1.000	0.901	18158.06	0.0031	P	3.3
3	☐	50.000	49.969	962249.41	0.1721	P	2.1
4	☐	125.000	126.598	2490813.08	0.4361	A	0.8
5	☐	250.000	249.089	5069719.12	0.8581	A	2.5
6	☐	500.000	486.414	10299040.94	1.6757	A	2.4
7	☐	1000.000	1006.823	20458807.58	3.4684	A	3.1
8	☐			2078.02	0.0004	P	3.3

$$y = 0.0034 * x + 5.3532E-006$$

$$R = 0.9999$$

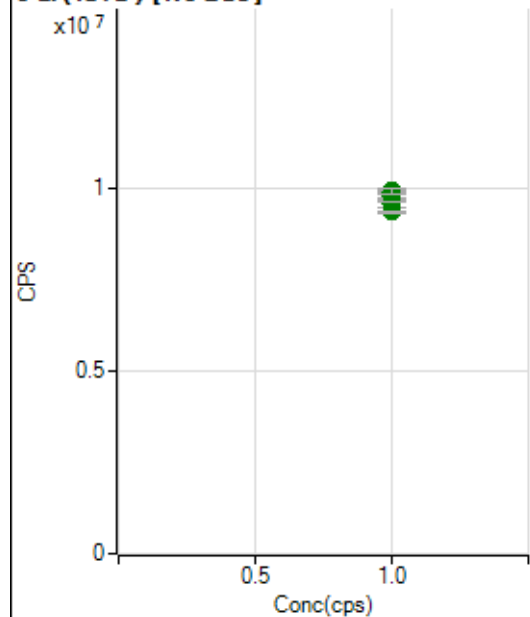
$$DL = 0.001957$$

$$BEC = 0.001554$$

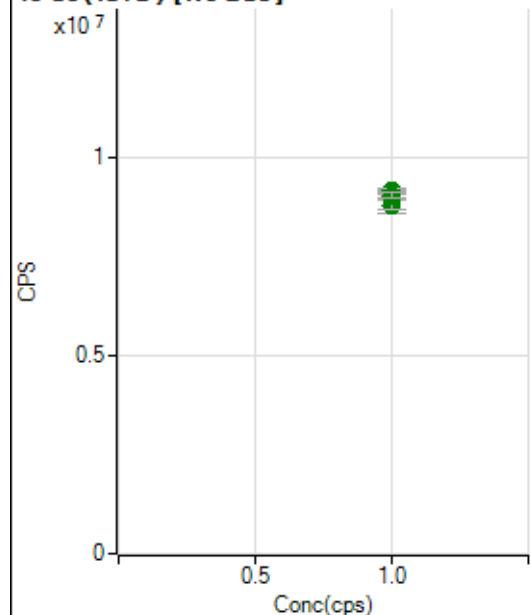
Weight: <None>

Min Conc: 0

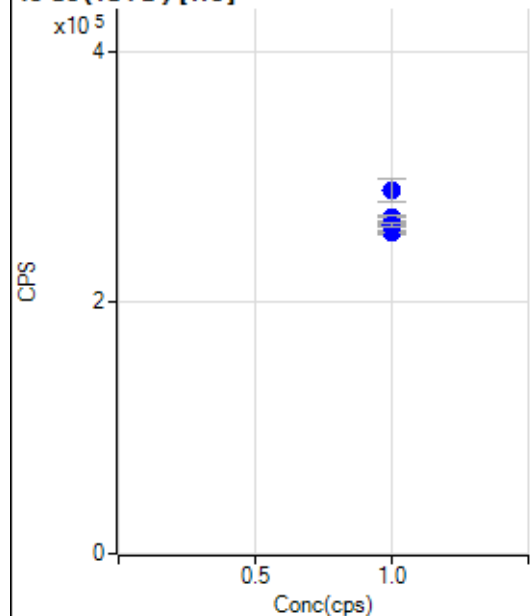
6 Li (ISTD) [No Gas]



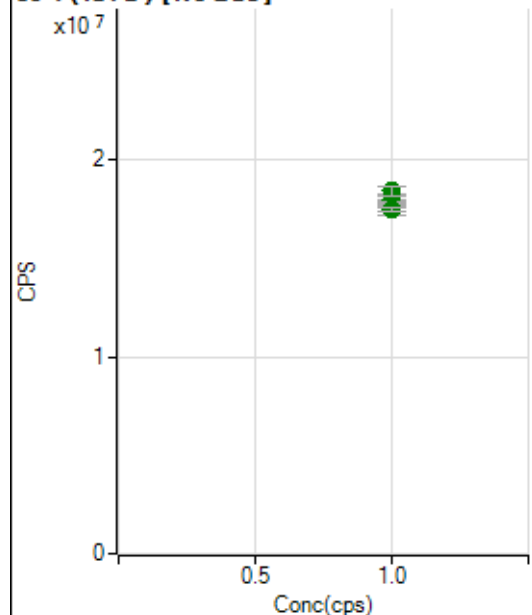
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9682030.49		A	4.4
2	☐	1.000		9949200.01		A	0.9
3	☐	1.000		9810817.52		A	1.5
4	☐	1.000		9871362.76		A	2.2
5	☐	1.000		9788994.10		A	1.7
6	☐	1.000		9915826.79		A	1.6
7	☐	1.000		9572618.23		A	1.7
8	☐	1.000		9375634.62		A	0.4

45 Sc (ISTD) [No Gas]

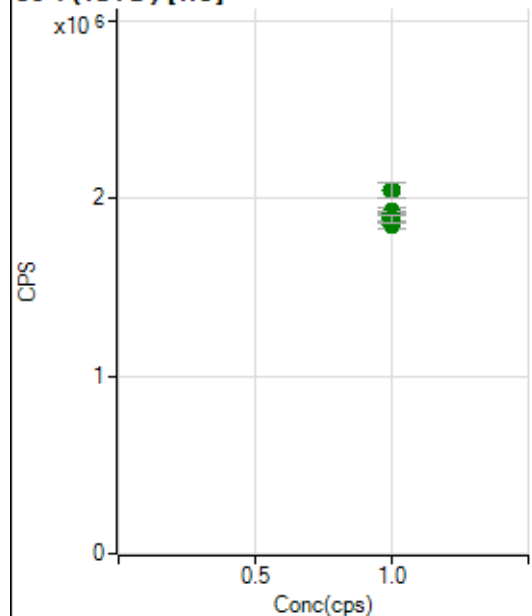
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8779619.25		A	4.2
2	☐	1.000		9127230.90		A	1.8
3	☐	1.000		9061740.28		A	2.2
4	☐	1.000		8934216.32		A	0.7
5	☐	1.000		8788484.45		A	2.6
6	☐	1.000		9115184.45		A	1.5
7	☐	1.000		9143810.63		A	1.2
8	☐	1.000		9036791.26		A	1.2

45 Sc (ISTD) [He]

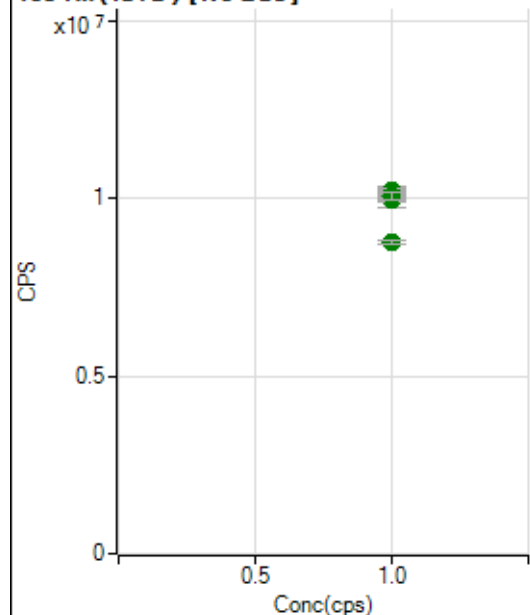
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		268117.56		P	0.7
2	☐	1.000		288799.30		P	6.5
3	☐	1.000		264438.55		P	0.2
4	☐	1.000		257554.48		P	2.1
5	☐	1.000		256047.41		P	0.8
6	☐	1.000		260643.57		P	0.4
7	☐	1.000		268048.13		P	0.7
8	☐	1.000		261695.13		P	1.3

89 Y (ISTD) [No Gas]

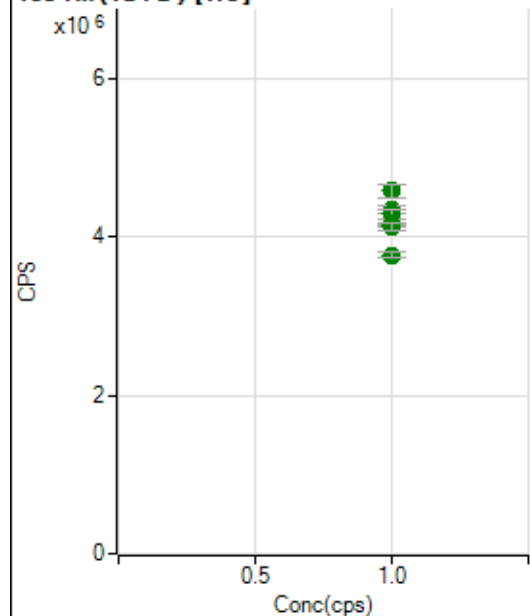
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		17493791.96		A	2.9
2	☐	1.000		17831794.60		A	1.6
3	☐	1.000		18006675.70		A	3.1
4	☐	1.000		17770847.37		A	1.8
5	☐	1.000		17866705.85		A	0.5
6	☐	1.000		18242284.45		A	1.0
7	☐	1.000		18450185.84		A	2.7
8	☐	1.000		17466511.82		A	1.1

89 Y (ISTD) [He]

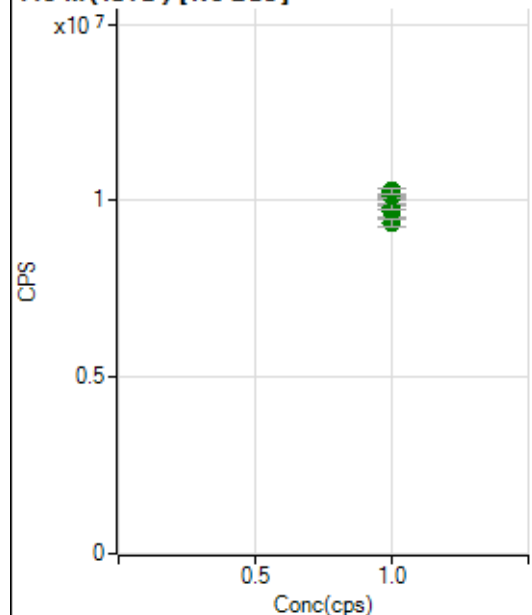
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1931320.04		A	1.6
2	☐	1.000		2042326.10		A	4.1
3	☐	1.000		1907115.09		A	0.7
4	☐	1.000		1854223.85		A	2.5
5	☐	1.000		1864472.96		A	0.2
6	☐	1.000		1891844.49		A	1.7
7	☐	1.000		1914530.11		A	1.5
8	☐	1.000		1882855.96		A	2.0

103 Rh (ISTD) [No Gas]

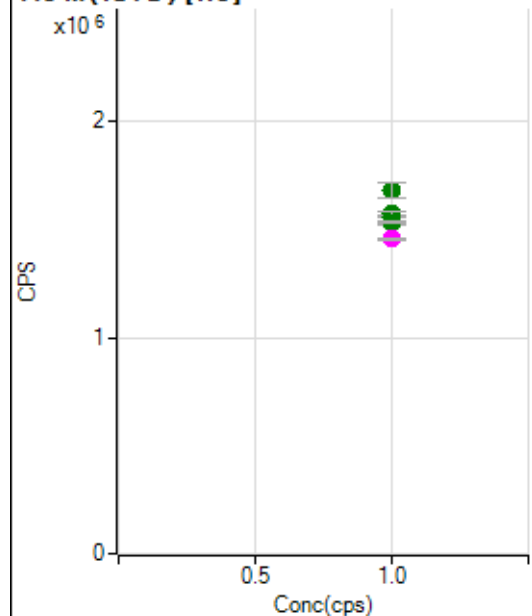
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10015337.64		A	5.3
2	☐	1.000		10184258.56		A	2.3
3	☐	1.000		10200946.41		A	0.5
4	☐	1.000		10189672.71		A	1.4
5	☐	1.000		9954474.01		A	1.6
6	☐	1.000		10046066.02		A	1.3
7	☐	1.000		10036207.43		A	2.1
8	☐	1.000		8754449.59		A	1.6

103 Rh (ISTD) [He]

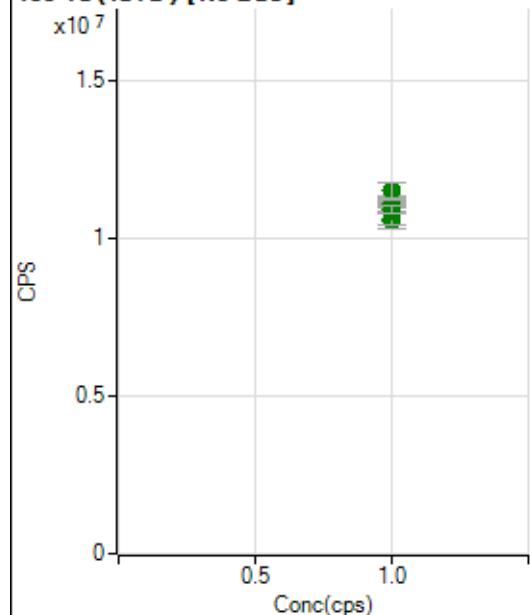
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4355374.62		A	2.2
2	☐	1.000		4578331.18		A	3.8
3	☐	1.000		4284552.43		A	2.5
4	☐	1.000		4182254.45		A	2.0
5	☐	1.000		4125416.99		A	2.7
6	☐	1.000		4149185.77		A	1.7
7	☐	1.000		4117639.90		A	2.2
8	☐	1.000		3771183.56		A	1.9

115 In (ISTD) [No Gas]

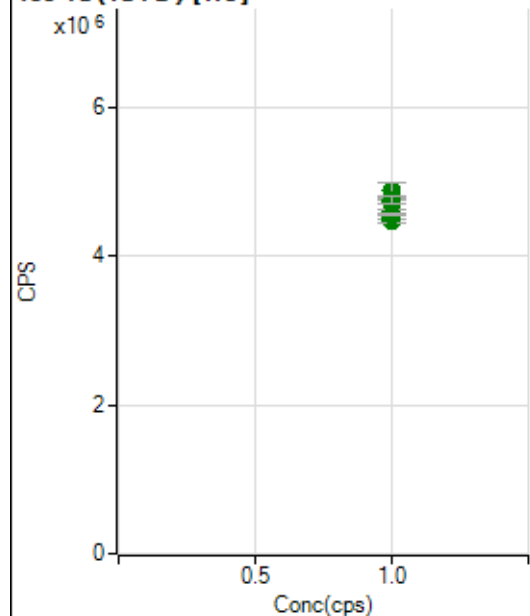
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9709462.17		A	3.7
2	☐	1.000		10187634.22		A	3.1
3	☐	1.000		10238890.35		A	1.9
4	☐	1.000		9808001.01		A	1.4
5	☐	1.000		9820531.74		A	1.8
6	☐	1.000		10121364.21		A	1.2
7	☐	1.000		10274104.51		A	1.6
8	☐	1.000		9357091.14		A	2.4

115 In (ISTD) [He]

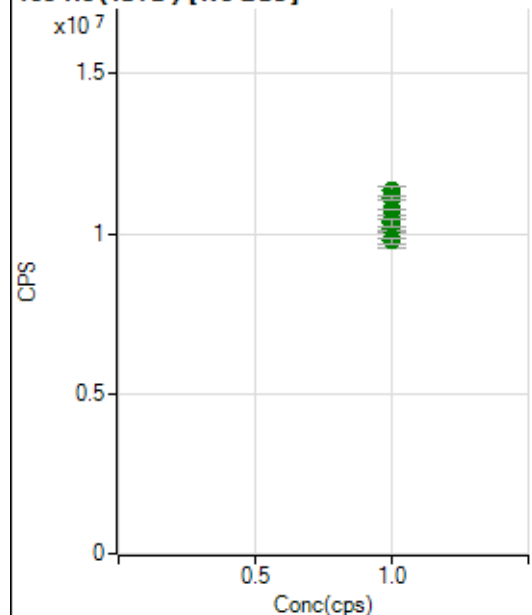
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1573546.07		A	1.8
2	☐	1.000		1680033.68		A	4.3
3	☐	1.000		1569715.87		A	0.1
4	☐	1.000		1558697.92		A	3.7
5	☐	1.000		1533484.09		A	0.6
6	☐	1.000		1530797.43		A	0.7
7	☐	1.000		1533993.30		A	0.8
8	☐	1.000		1456375.19		M	0.9

159 Tb (ISTD) [No Gas]

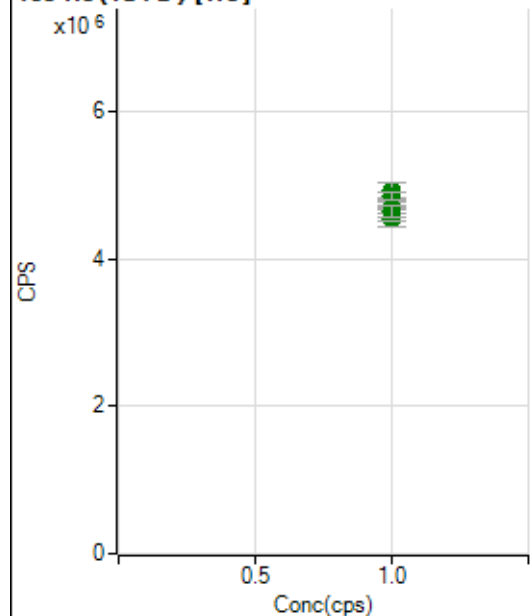
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10545123.38		A	4.5
2	☐	1.000		11058103.03		A	1.1
3	☐	1.000		10618414.77		A	3.7
4	☐	1.000		10844079.56		A	0.6
5	☐	1.000		11095220.25		A	1.4
6	☐	1.000		11292592.19		A	0.9
7	☐	1.000		11523309.69		A	4.1
8	☐	1.000		10935412.61		A	2.3

159 Tb (ISTD) [He]

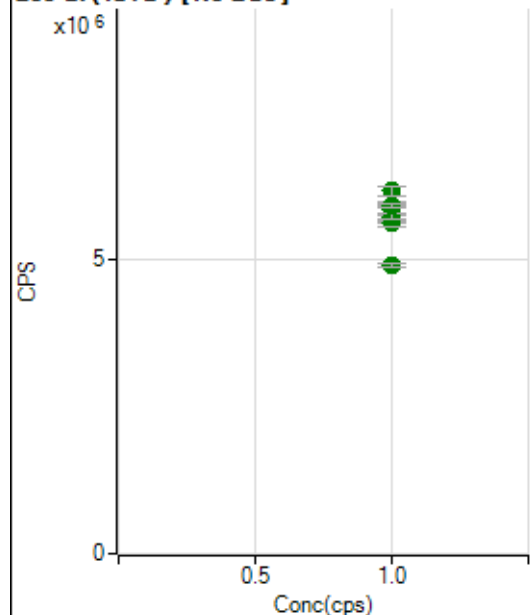
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4528995.21		A	1.5
2	☐	1.000		4879793.47		A	4.9
3	☐	1.000		4473623.06		A	1.2
4	☐	1.000		4501956.98		A	2.7
5	☐	1.000		4598564.86		A	0.9
6	☐	1.000		4738719.97		A	1.5
7	☐	1.000		4755295.69		A	1.9
8	☐	1.000		4563558.06		A	0.6

165 Ho (ISTD) [No Gas]

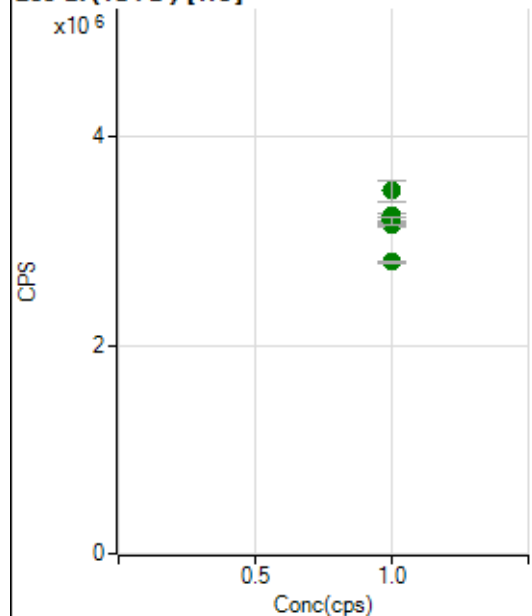
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9784276.35		A	5.2
2	☐	1.000		9770776.78		A	2.1
3	☐	1.000		10178011.60		A	1.1
4	☐	1.000		10423017.16		A	3.4
5	☐	1.000		10767282.53		A	0.2
6	☐	1.000		11340298.35		A	2.8
7	☐	1.000		11117154.94		A	1.0
8	☐	1.000		10329527.32		A	2.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4538972.95		A	4.0
2	☐	1.000		4928477.60		A	4.2
3	☐	1.000		4655153.26		A	1.3
4	☐	1.000		4581605.45		A	2.3
5	☐	1.000		4563066.15		A	2.4
6	☐	1.000		4735159.89		A	1.8
7	☐	1.000		4848101.53		A	2.1
8	☐	1.000		4660657.78		A	3.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5734017.35		A	4.1
2	☐	1.000		5845017.76		A	4.0
3	☐	1.000		5590826.93		A	1.3
4	☐	1.000		5711293.60		A	1.9
5	☐	1.000		5908896.16		A	0.8
6	☐	1.000		6148115.53		A	2.8
7	☐	1.000		5899755.67		A	1.4
8	☐	1.000		4877162.08		A	1.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3172238.98		A	1.6
2	☐	1.000		3479598.66		A	5.9
3	☐	1.000		3243633.63		A	0.8
4	☐	1.000		3216326.83		A	2.5
5	☐	1.000		3156404.22		A	1.5
6	☐	1.000		3226543.91		A	0.5
7	☐	1.000		3185721.62		A	2.5
8	☐	1.000		2797216.69		A	0.8

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8040622 MS.b
Acq. Date-Time 2022-04-06 12:26:38
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		26084	260841.58			1.130	5.000
24		143640	1436399.46			1.822	5.000
25		18610	186096.62			1.626	5.000
26		21393	213934.32			1.539	5.000
59		29133	291326.34			1.532	5.000
113		11829	118293.43			1.015	5.000
115		35469	354687.02			2.431	5.000
206		11736	117358.89			1.977	5.000
207		9770	97696.45			1.998	5.000
208		24757	247570.98			2.259	5.000
220		1	6.70			28.221	

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

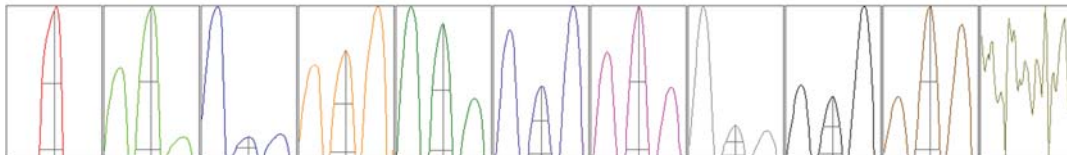
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	26144	25620	26366	26288	26003
24	145099	139028	144064	145209	144800
25	18749	18133	18829	18848	18489
26	21646	20816	21527	21484	21494
59	29414	28412	29444	29413	28981
113	11743	11667	11956	11893	11888
115	36929	35169	35470	35084	34692
206	11729	11343	11940	11841	11826
207	9706	9455	9905	9918	9865
208	25050	23766	25027	25064	24879

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	45367.87	9.05	8.90 - 9.10	
24	250885.52	24.00	23.90 - 24.10	
25	32638.32	25.00	24.90 - 25.10	
26	37894.05	26.00	25.90 - 26.10	
59	55224.79	59.00	58.90 - 59.10	
113	23868.53	113.05	112.90 - 113.10	
115	72806.64	115.05	114.90 - 115.10	
206	23271.13	206.00	205.90 - 206.10	
207	19373.12	207.00	206.90 - 207.10	
208	48092.84	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.738	0.900	
24	0.60	0.783	0.900	
25	0.60	0.780	0.900	
26	0.60	0.784	0.900	
59	0.56	0.736	0.900	
113	0.51	0.725	0.900	
115	0.50	0.726	0.900	
206	0.52	0.747	0.900	
207	0.52	0.760	0.900	
208	0.52	0.775	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 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	8.9 V	Deflect	14.8 V
Extract 2	-145.0 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	140 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	-0.2 mm
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EM

Discriminator	4.0 mV	Analog HV	2292 V	Pulse HV	1648 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		5500	55001.44			0.593	
89		19015	190152.86			0.885	
205		29720	297197.82			0.543	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	5511	5456	5545	5486	5502
89	19055	19225	18760	19055	18980
205	29706	29899	29790	29741	29463

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 L/min	Dilution Gas	0.40 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	8.9 V	Deflect	4.2 V
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US EPA Tune Check Report

Extract 2	-145.0 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	200 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	-0.2 mm
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EM

Discriminator	4.0 mV	Analog HV	2292 V	Pulse HV	1648 V
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