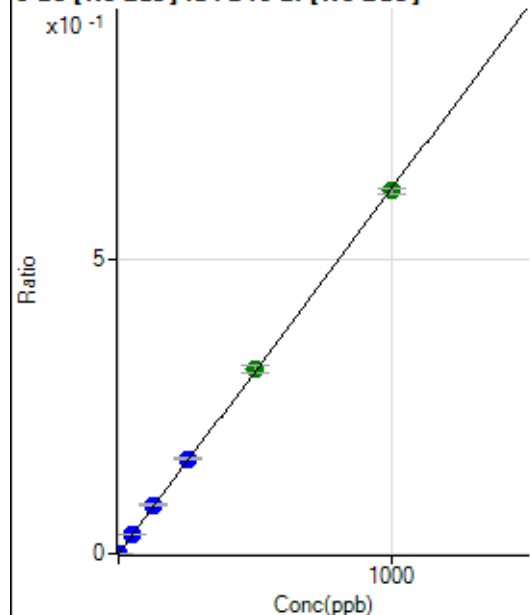


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8012123 MS.b\
Analysis File: P8012123 MS.batch.bin
DA Date-Time: 2023-01-12 17:53:39
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-01-12 14:54:43
2	005CALS.d	S02	2023-01-12 14:57:52
3	006CALS.d	S03	2023-01-12 15:01:03
4	007CALS.d	S04	2023-01-12 15:04:09
5	008CALS.d	S05	2023-01-12 15:07:18
6	009CALS.d	S06	2023-01-12 15:10:24
7	010CALS.d	S07	2023-01-12 15:13:32
8	011CALS.d	S08	2023-01-12 15:16:39

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	409.96	0.0001	P	3.3
2	☐	1.000	1.100	4090.07	0.0008	P	4.7
3	☐	50.000	52.710	184068.71	0.0327	P	3.1
4	☐	125.000	131.982	460422.36	0.0818	P	3.9
5	☐	250.000	259.948	908522.59	0.1610	P	1.8
6	☐	500.000	504.078	1778914.36	0.3121	A	4.2
7	☐	1000.000	994.466	3474058.30	0.6156	A	1.5
8	☐			1411.15	0.0003	P	6.8

$$y = 6.1898\text{E-}004 * x + 7.4337\text{E-}005$$

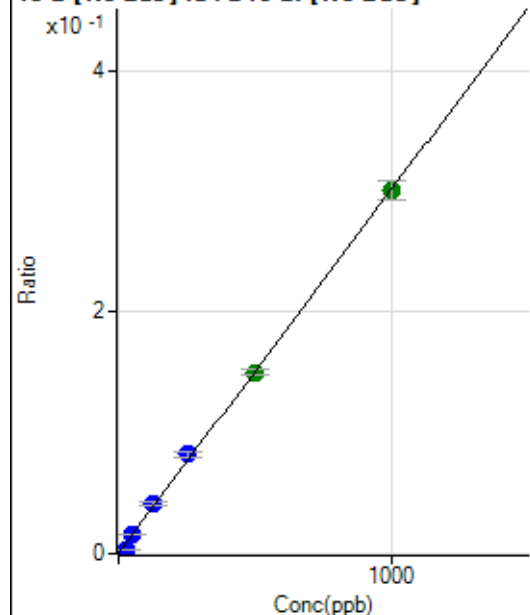
$$R = 0.9999$$

$$DL = 0.01188$$

$$BEC = 0.1201$$

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	3655.08	0.0007	P	2.0
2	☐	25.000	7.368	15600.55	0.0029	P	4.1
3	☐	50.000	52.468	92652.26	0.0165	P	2.5
4	☐	125.000	135.087	232537.29	0.0413	P	6.1
5	☐	250.000	270.889	463624.94	0.0822	P	4.8
6	☐	500.000	496.151	855112.66	0.1500	A	3.3
7	☐	1000.000	995.759	1694268.80	0.3003	A	5.3
8	☐			87110.34	0.0166	P	8.4

$$y = 3.0090\text{E-}004 * x + 6.6281\text{E-}004$$

$$R = 0.9994$$

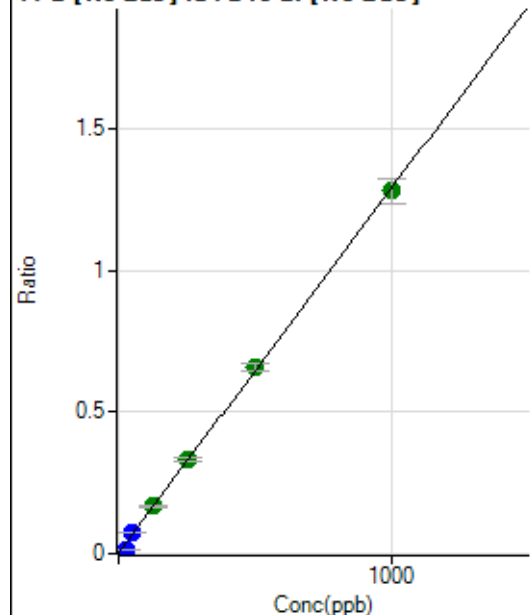
$$DL = 0.1325$$

$$BEC = 2.203$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	15320.98	0.0028	P	2.5
2	☐	25.000	7.703	68766.42	0.0127	P	3.9
3	☐	50.000	54.829	412990.92	0.0734	P	3.7
4	☐	125.000	128.289	945347.45	0.1679	A	4.6
5	☐	250.000	257.603	1886656.23	0.3343	A	3.5
6	☐	500.000	510.107	3759562.92	0.6594	A	4.1
7	☐	1000.000	992.826	7222418.94	1.2807	A	6.8
8	☐			378898.84	0.0722	P	9.1

$$y = 0.0013 * x + 0.0028$$

$$R = 0.9997$$

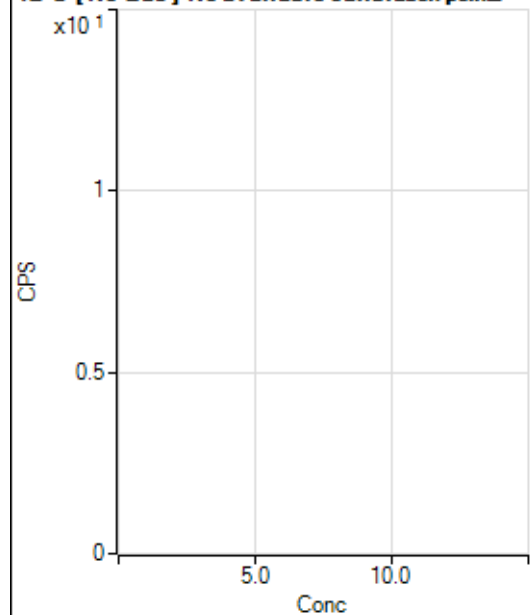
$$DL = 0.1615$$

$$BEC = 2.159$$

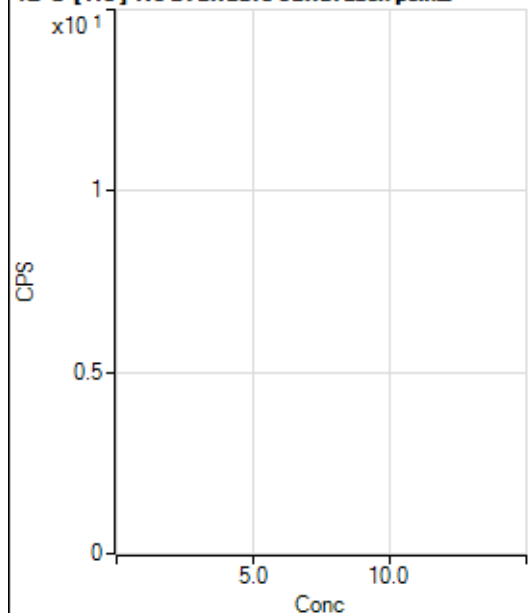
Weight: <None>

Min Conc: 0

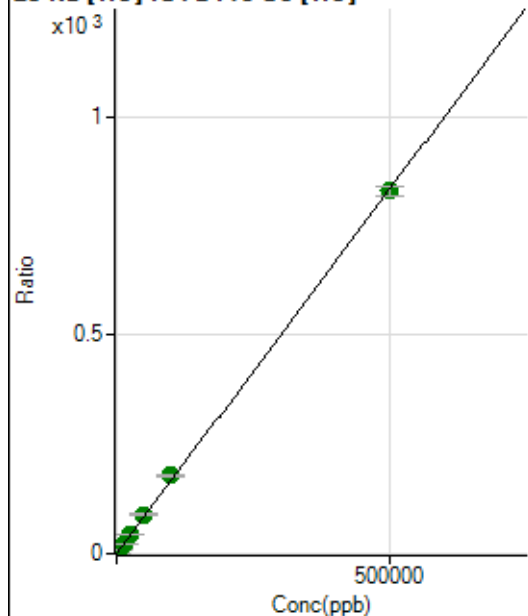
12 C [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			8070874.66		A	0.3
2	☐			8071132.21		A	0.8
3	☐			8908157.58		A	0.8
4	☐			8500662.78		A	1.5
5	☐			8834371.46		A	0.6
6	☐			9457980.77		A	1.8
7	☐			9632070.53		A	2.1
8	☐			9169273.56		A	4.3

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			94628.96		P	1.1
2	☐			93077.48		P	1.4
3	☐			103376.03		P	0.9
4	☐			102858.58		P	0.4
5	☐			107517.00		P	2.0
6	☐			114869.82		P	2.5
7	☐			116521.80		P	1.4
8	☐			118772.72		P	2.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	21290.89	0.0889	P	2.2
2	☐	500.000	478.227	215652.63	0.8866	P	1.5
3	☐	5000.000	5303.241	2144501.03	8.9349	A	1.0
4	☐	12500.000	13545.795	5333871.86	22.6836	A	2.1
5	☐	25000.000	26574.588	10366026.10	44.4159	A	2.2
6	☐	50000.000	53254.150	21055615.06	88.9180	A	4.6
7	☐	100000.00	107623.16	42768483.60	179.6066	A	1.7
8	☐	500000.00	498042.06	198281728.0	830.8333	A	2.4

$$y = 0.0017 * x + 0.0889$$

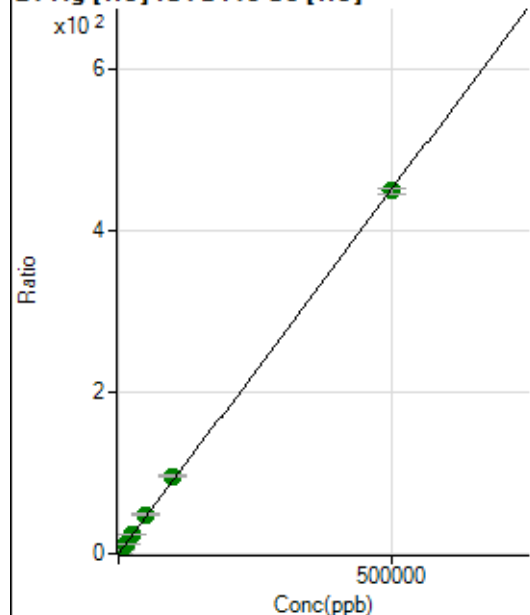
$$R = 0.9999$$

$$DL = 3.448$$

$$BEC = 53.32$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	483.35	0.0020	P	7.8
2	☐	500.000	491.034	108024.51	0.4441	P	0.9
3	☐	5000.000	5402.236	1168065.20	4.8661	A	0.3
4	☐	12500.000	13901.373	2943821.92	12.5187	A	3.0
5	☐	25000.000	26997.515	5672593.57	24.3103	A	4.6
6	☐	50000.000	53975.137	11507873.26	48.6007	A	4.9
7	☐	100000.00	106240.77	22779781.76	95.6603	A	2.2
8	☐	500000.00	498215.40	107057076.7	448.5907	A	1.7

$$y = 9.0039\text{E-}004 * x + 0.0020$$

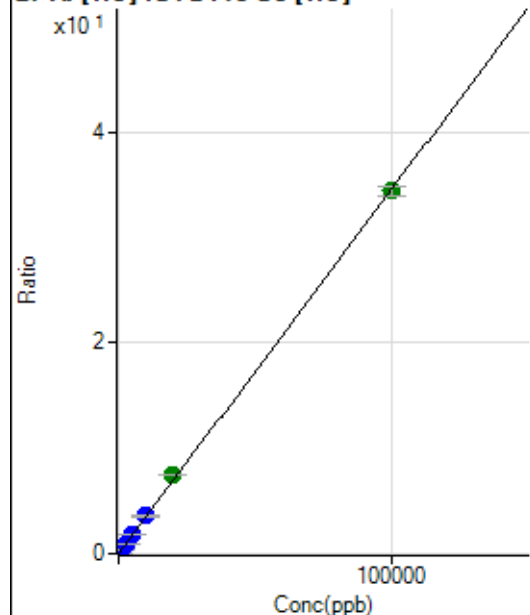
$$R = 0.9999$$

$$DL = 0.522$$

$$BEC = 2.243$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	157.90	0.0007	P	10.7
2	☐	20.000	20.069	1847.81	0.0076	P	1.5
3	☐	1000.000	1038.511	86330.45	0.3597	P	1.1
4	☐	2500.000	2638.315	214628.39	0.9128	P	2.0
5	☐	5000.000	5224.450	421689.30	1.8068	P	1.8
6	☐	10000.000	10383.355	850274.36	3.5903	P	3.2
7	☐	20000.000	21582.565	1777007.34	7.4621	A	1.0
8	☐	100000.00	99630.086	8219544.97	34.4442	A	2.3

$$y = 3.4571\text{E-}004 * x + 6.5966\text{E-}004$$

$$R = 0.9999$$

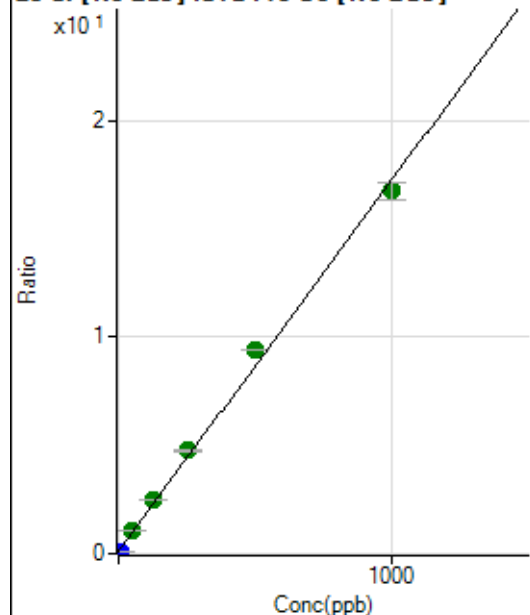
$$DL = 0.611$$

$$BEC = 1.908$$

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	777482.83	0.1187	P	4.1
2	☐	10.000	0.513	850233.62	0.1275	P	1.0
3	☐	50.000	55.534	7189052.85	1.0697	A	2.1
4	☐	125.000	139.322	16806096.73	2.5044	A	0.7
5	☐	250.000	270.729	32484220.52	4.7547	A	0.5
6	☐	500.000	542.274	62735822.93	9.4046	A	0.2
7	☐	1000.000	971.709	117070469.2	16.7582	A	5.0
8	☐			2444081.85	0.3658	A	4.1

$$y = 0.0171 * x + 0.1187$$

$$R = 0.9982$$

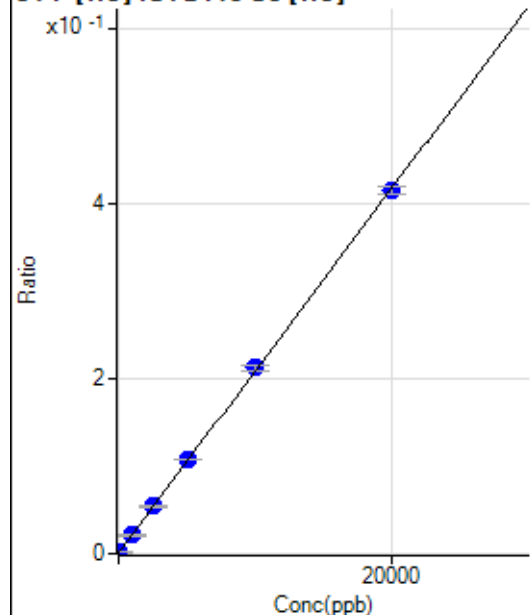
$$DL = 0.8503$$

$$BEC = 6.932$$

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	-15.422	150.01	0.0006	P	17.5
2	☐	0.000	15.422	308.35	0.0013	P	19.4
3	☐	1000.000	975.348	5095.46	0.0212	P	5.5
4	☐	2500.000	2544.505	12666.97	0.0539	P	3.2
5	☐	5000.000	5148.939	25214.26	0.1080	P	1.1
6	☐	10000.000	10166.147	50290.60	0.2124	P	3.4
7	☐	20000.000	19875.361	98655.55	0.4143	P	2.1
8	☐			211.12	0.0009	P	5.5

$$y = 2.0795E-005 * x + 9.4798E-004$$

$$R = 0.9999$$

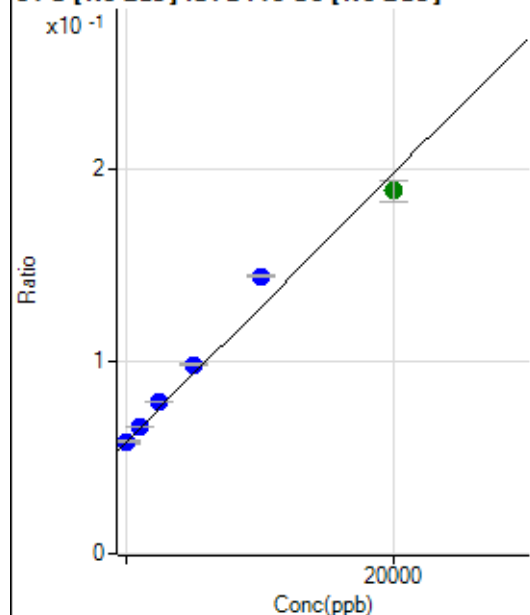
$$DL = 25.66$$

$$BEC = 45.59$$

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	-6.958	382193.03	0.0583	P	3.4
2	☐	0.000	6.958	389730.91	0.0584	P	0.8
3	☐	1000.000	1118.286	445198.57	0.0662	P	1.2
4	☐	2500.000	2973.363	531849.57	0.0793	P	0.3
5	☐	5000.000	5713.677	672751.38	0.0985	P	1.6
6	☐	10000.000	12279.641	964440.87	0.1446	P	0.8
7	☐	20000.000	18616.676	1320586.30	0.1891	A	5.6
8	☐			344950.53	0.0517	P	1.4

$$y = 7.0189\text{E-}006 * x + 0.0584$$

R = 0.9889

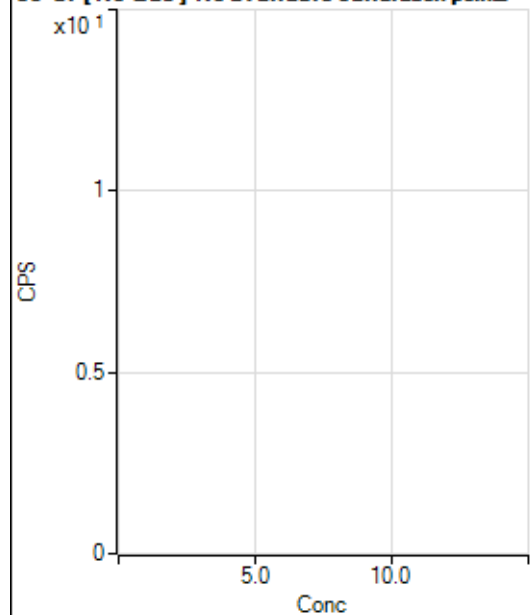
DL = 522.8

BEC = 8319

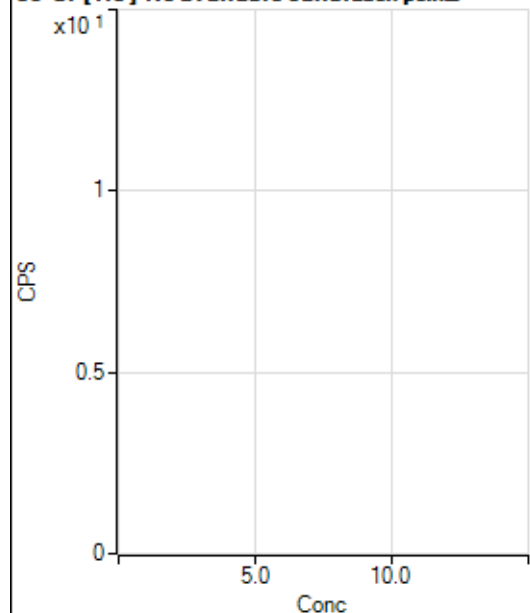
Weight: <None>

Min Conc: 0

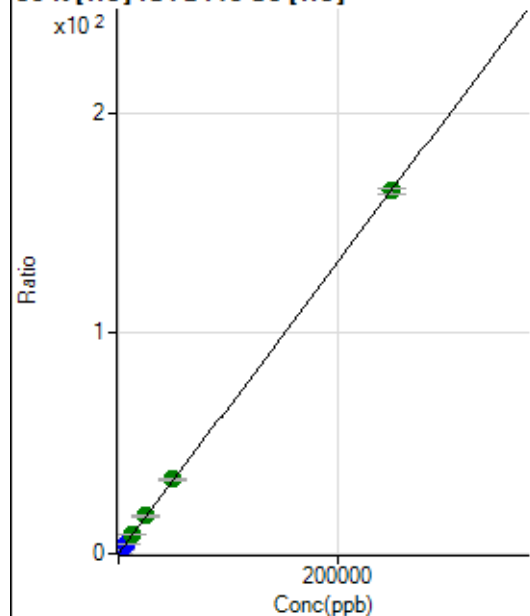
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			273137.12		P	0.5
2	☐			279080.85		P	0.7
3	☐			282397.29		P	0.2
4	☐			258637.05		P	1.5
5	☐			259947.97		P	1.6
6	☐			269455.98		P	0.1
7	☐			271097.80		P	0.9
8	☐			265556.44		P	0.9

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2111.32		P	7.7
2	☐			2247.46		P	9.3
3	☐			2219.68		P	6.6
4	☐			1966.85		P	6.6
5	☐			1989.08		P	1.9
6	☐			2397.49		P	6.3
7	☐			2139.11		P	5.2
8	☐			2089.09		P	6.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	23622.65	0.0987	P	2.9
2	☐	500.000	457.840	97380.92	0.4004	P	1.0
3	☐	2500.000	2509.465	420683.08	1.7524	P	1.4
4	☐	6250.000	6315.674	1001787.15	4.2606	P	1.9
5	☐	12500.000	13251.915	2061295.08	8.8314	A	2.9
6	☐	25000.000	25690.233	4033208.60	17.0280	A	2.3
7	☐	50000.000	51183.520	8055949.31	33.8275	A	2.8
8	☐	250000.00	249655.02	39285651.92	164.6156	A	1.5

$$y = 6.5898E-004 * x + 0.0987$$

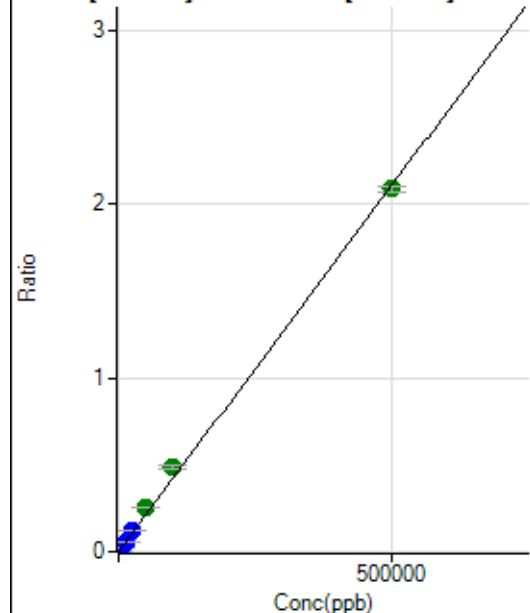
$$R = 1.0000$$

$$DL = 13.15$$

$$BEC = 149.8$$

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	200.40	0.0000	P	3.1
2	☐	500.000	489.620	13947.94	0.0021	P	0.8
3	☐	5000.000	5709.102	161702.40	0.0241	P	1.7
4	☐	12500.000	14326.342	404822.86	0.0603	P	0.5
5	☐	25000.000	27879.159	801682.38	0.1174	P	1.6
6	☐	50000.000	60305.440	1693373.84	0.2538	A	2.0
7	☐	100000.00	114696.43	3372928.49	0.4828	A	4.4
8	☐	500000.00	495833.47	13932420.66	2.0869	A	1.6

$$y = 4.2088\text{E-}006 * x + 3.0584\text{E-}005$$

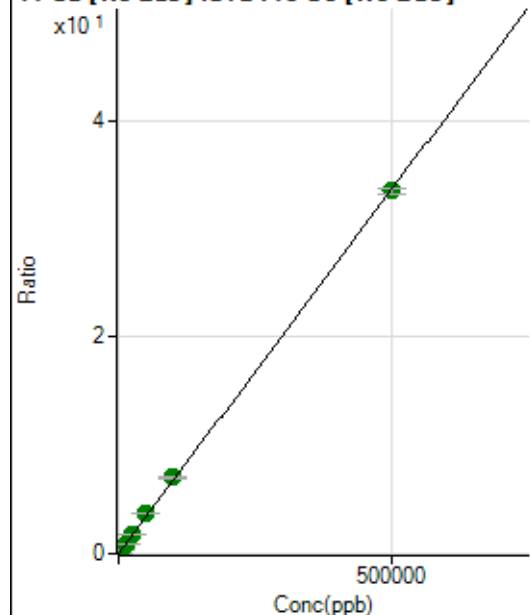
$$R = 0.9994$$

$$DL = 0.6683$$

$$BEC = 7.267$$

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	11967.13	0.0018	P	3.3
2	☐	500.000	490.791	232344.89	0.0348	P	0.9
3	☐	5000.000	5549.436	2520789.62	0.3751	A	1.1
4	☐	12500.000	13962.200	6313027.91	0.9408	A	2.1
5	☐	25000.000	27283.828	12548601.24	1.8368	A	2.3
6	☐	50000.000	55504.960	24913553.14	3.7348	A	0.5
7	☐	100000.00	104945.02	49338357.79	7.0598	A	3.5
8	☐	500000.00	498304.26	223779764.5	33.5150	A	1.3

$$y = 6.7254\text{E-}005 * x + 0.0018$$

$$R = 0.9999$$

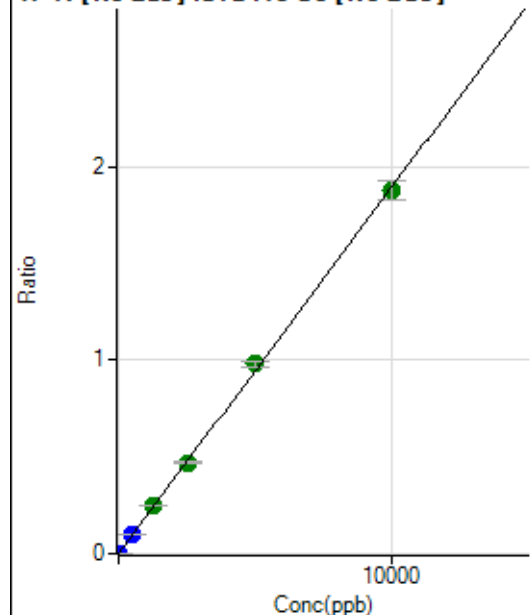
$$DL = 2.715$$

$$BEC = 27.16$$

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	211.12	0.0000	P	18.7
2	☐	5.000	5.258	6860.15	0.0010	P	6.7
3	☐	500.000	515.318	656116.32	0.0976	P	0.8
4	☐	1250.000	1298.641	1650373.99	0.2460	A	1.2
5	☐	2500.000	2490.876	3222620.71	0.4717	A	1.3
6	☐	5000.000	5177.909	6540389.99	0.9806	A	3.0
7	☐	10000.000	9906.480	13103363.92	1.8760	A	5.5
8	☐			5540.10	0.0008	P	4.7

$$y = 1.8937E-004 * x + 3.2332E-005$$

$$R = 0.9998$$

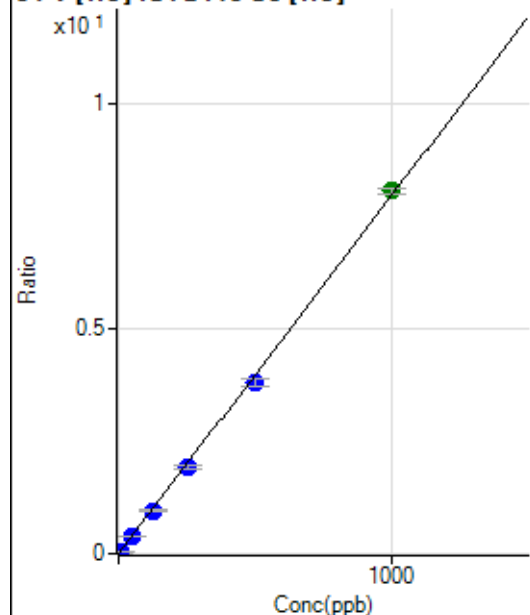
$$DL = 0.09579$$

$$BEC = 0.1707$$

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	85.56	0.0004	P	17.5
2	☐	5.000	4.506	8792.78	0.0362	P	2.5
3	☐	50.000	47.511	90667.64	0.3778	P	2.6
4	☐	125.000	120.223	224673.50	0.9554	P	1.9
5	☐	250.000	242.693	450016.36	1.9284	P	3.1
6	☐	500.000	477.933	899272.42	3.7972	P	3.7
7	☐	1000.000	1013.584	1917638.53	8.0526	A	1.9
8	☐			860.03	0.0036	P	9.1

$$y = 0.0079 * x + 3.5723E-004$$

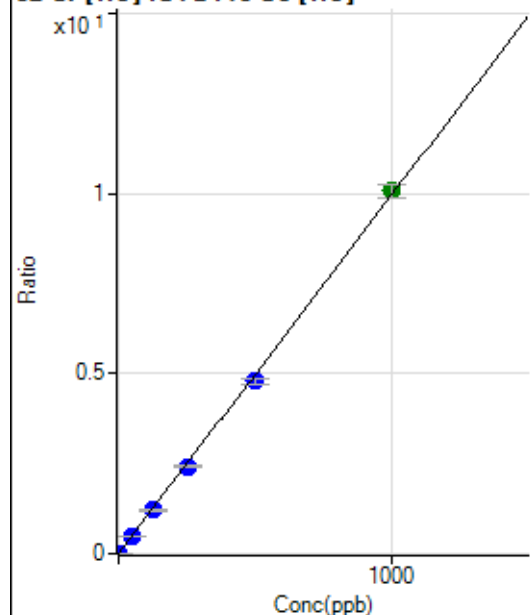
$$R = 0.9996$$

$$DL = 0.02359$$

$$BEC = 0.04497$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	820.03	0.0034	P	2.0
2	☐	2.000	1.754	5074.27	0.0209	P	1.6
3	☐	50.000	48.119	115670.22	0.4819	P	1.8
4	☐	125.000	120.617	282798.99	1.2028	P	3.3
5	☐	250.000	243.686	566264.49	2.4266	P	3.1
6	☐	500.000	480.515	1132428.22	4.7815	P	2.9
7	☐	1000.000	1011.963	2396801.84	10.0661	A	3.7
8	☐			17159.31	0.0719	P	3.1

$$y = 0.0099 * x + 0.0034$$

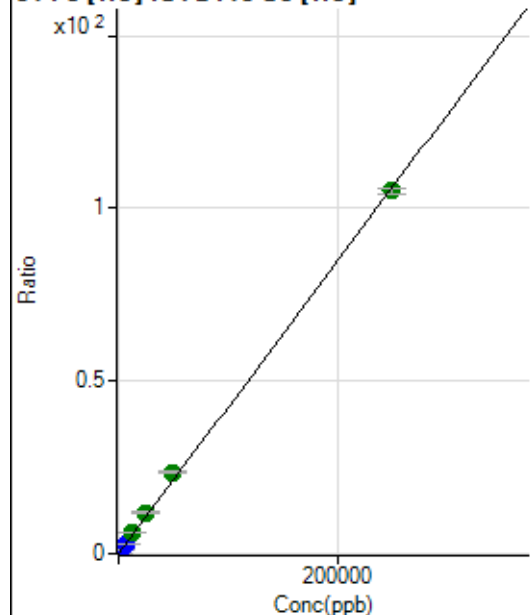
$$R = 0.9997$$

$$DL = 0.02091$$

$$BEC = 0.3445$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	805.59	0.0034	P	8.9
2	☐	50.000	53.800	6353.37	0.0261	P	1.8
3	☐	2500.000	2634.925	268313.06	1.1180	P	2.0
4	☐	6250.000	6752.263	672384.09	2.8597	P	2.2
5	☐	12500.000	14297.665	1412458.83	6.0515	A	0.7
6	☐	25000.000	28157.471	2821774.78	11.9145	A	3.1
7	☐	50000.000	55737.752	5614613.20	23.5814	A	3.4
8	☐	250000.00	248432.91	25080564.45	105.0949	A	1.6

$$y = 4.2302E-004 * x + 0.0034$$

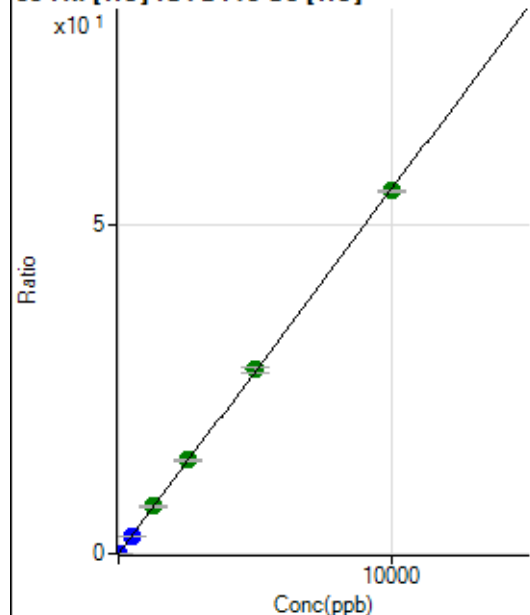
$$R = 0.9997$$

$$DL = 2.131$$

$$BEC = 7.952$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	192.22	0.0008	P	31.9
2	☐	1.000	0.903	1414.53	0.0058	P	10.6
3	☐	500.000	477.552	636772.58	2.6532	P	1.6
4	☐	1250.000	1297.938	1695030.37	7.2098	A	3.2
5	☐	2500.000	2567.953	3328593.11	14.2637	A	3.3
6	☐	5000.000	5047.626	6639691.78	28.0363	A	3.4
7	☐	10000.000	9954.329	13166985.91	55.2890	A	0.8
8	☐			14873.41	0.0623	P	0.9

$$y = 0.0056 * x + 8.0146E-004$$

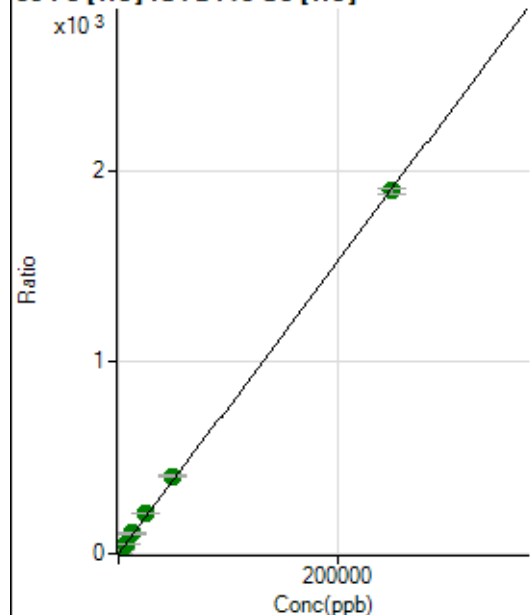
$$R = 0.9999$$

$$DL = 0.1379$$

$$BEC = 0.1443$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4952.80	0.0207	P	3.3
2	☐	50.000	49.966	97416.83	0.4005	P	1.4
3	☐	2500.000	2766.440	5053237.61	21.0514	A	1.2
4	☐	6250.000	7071.622	12645364.87	53.7798	A	0.8
5	☐	12500.000	13979.184	24805295.93	106.2917	A	2.6
6	☐	25000.000	27669.447	49825199.26	210.3664	A	2.3
7	☐	50000.000	53174.268	96271848.45	404.2563	A	2.5
8	☐	250000.00	249001.03	451809061.9	1.892.949	A	1.4

$$y = 0.0076 * x + 0.0207$$

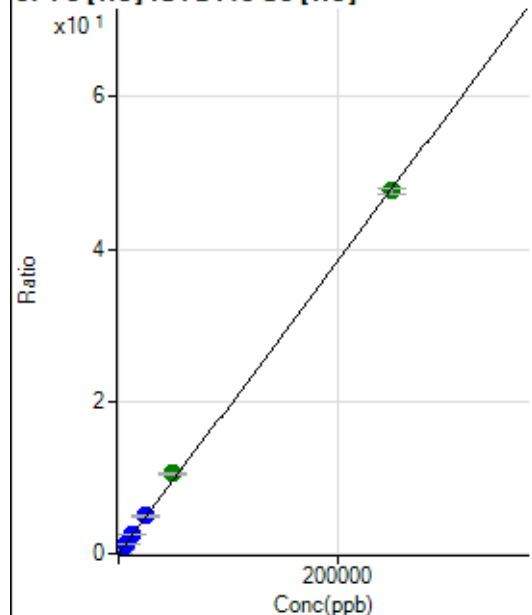
$$R = 0.9999$$

$$DL = 0.2731$$

$$BEC = 2.721$$

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	266.68	0.0011	P	10.9
2	☐	50.000	49.085	2555.83	0.0105	P	3.9
3	☐	2500.000	2631.947	121178.70	0.5049	P	1.2
4	☐	6250.000	6646.010	299376.16	1.2732	P	2.9
5	☐	12500.000	13151.422	587743.59	2.5184	P	2.3
6	☐	25000.000	26016.082	1179485.60	4.9809	P	4.1
7	☐	50000.000	54993.215	2507031.56	10.5274	A	1.6
8	☐	250000.00	248855.95	11367975.60	47.6349	A	1.5

$$y = 1.9141\text{E-}004 * x + 0.0011$$

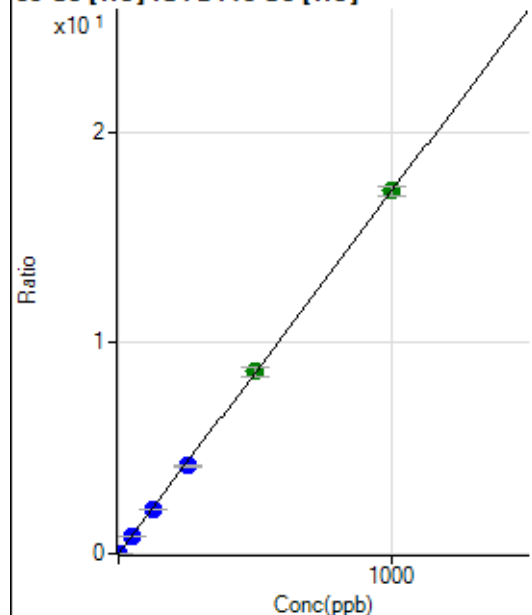
$$R = 0.9998$$

$$DL = 1.901$$

$$BEC = 5.817$$

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	451.12	0.0019	P	2.9
2	☐	1.000	0.897	4206.22	0.0173	P	2.9
3	☐	50.000	48.349	199849.64	0.8327	P	1.7
4	☐	125.000	121.635	491921.22	2.0921	P	3.2
5	☐	250.000	242.480	972901.40	4.1687	P	2.1
6	☐	500.000	502.186	2043883.20	8.6316	A	4.8
7	☐	1000.000	1001.290	4097815.08	17.2083	A	2.4
8	☐			4059.50	0.0170	P	1.2

$$y = 0.0172 * x + 0.0019$$

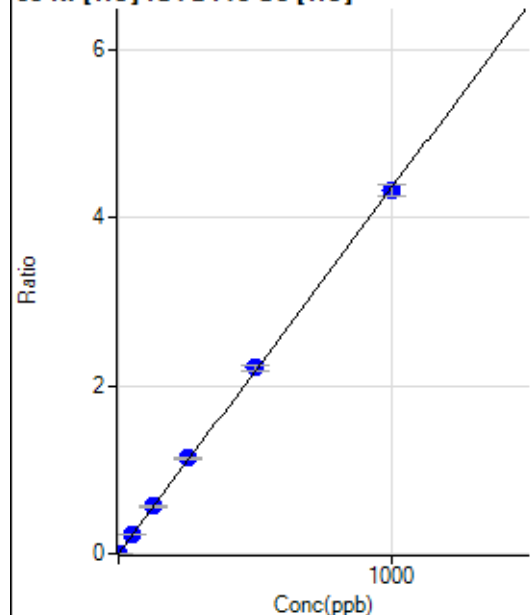
$$R = 1.0000$$

$$DL = 0.009524$$

$$BEC = 0.1097$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	166.67	0.0007	P	15.3
2	☐	1.000	0.940	1164.50	0.0048	P	4.8
3	☐	50.000	52.071	54562.19	0.2273	P	1.6
4	☐	125.000	130.519	133727.39	0.5687	P	3.1
5	☐	250.000	261.345	265615.68	1.1381	P	1.6
6	☐	500.000	508.108	523846.49	2.2120	P	3.5
7	☐	1000.000	992.316	1028677.08	4.3193	P	3.1
8	☐			3611.61	0.0151	P	4.1

$$y = 0.0044 * x + 6.9586E-004$$

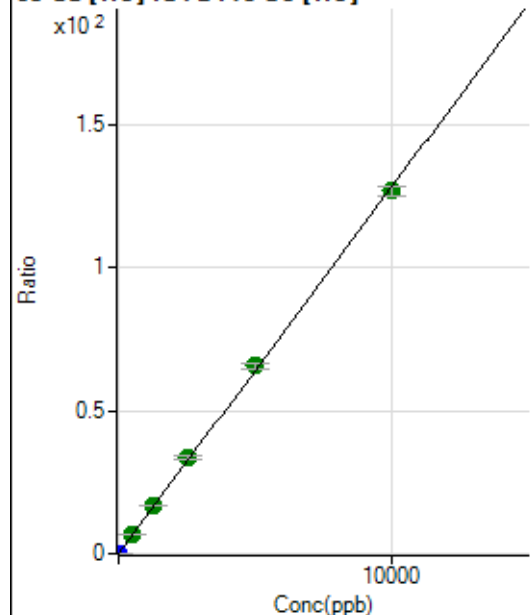
$$R = 0.9999$$

$$DL = 0.0732$$

$$BEC = 0.1599$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1177.84	0.0049	P	3.7
2	☐	2.000	1.872	7025.14	0.0289	P	3.8
3	☐	500.000	534.277	1642104.40	6.8409	A	0.4
4	☐	1250.000	1311.790	3947411.30	16.7892	A	3.0
5	☐	2500.000	2623.536	7834975.37	33.5728	A	2.5
6	☐	5000.000	5118.101	15510472.13	65.4906	A	2.9
7	☐	10000.000	9900.628	30166447.88	126.6826	A	3.0
8	☐			13625.56	0.0571	P	2.8

$$y = 0.0128 * x + 0.0049$$

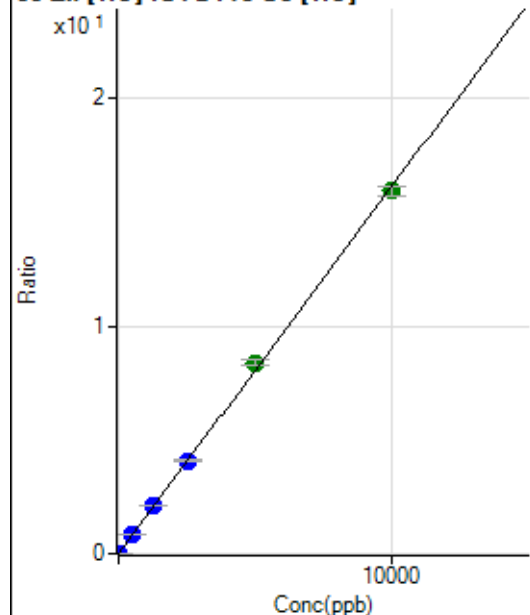
$$R = 0.9998$$

$$DL = 0.04221$$

$$BEC = 0.3847$$

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	208.89	0.0009	P	17.8
2	☐	2.000	2.253	1095.61	0.0045	P	3.3
3	☐	500.000	518.691	200849.97	0.8368	P	1.6
4	☐	1250.000	1290.107	489060.58	2.0799	P	1.0
5	☐	2500.000	2528.364	951064.60	4.0754	P	2.7
6	☐	5000.000	5196.200	1983323.37	8.3746	A	3.1
7	☐	10000.000	9888.861	3795137.44	15.9369	A	2.8
8	☐			3393.78	0.0142	P	4.0

$$y = 0.0016 * x + 8.7343E-004$$

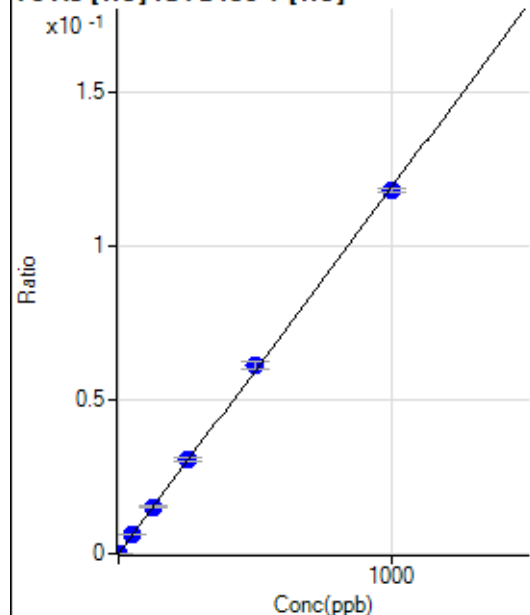
$$R = 0.9997$$

$$DL = 0.2892$$

$$BEC = 0.542$$

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	13.67	0.0000	P	20.3
2	☐	1.000	1.014	227.02	0.0001	P	8.5
3	☐	50.000	52.801	11119.83	0.0063	P	1.1
4	☐	125.000	127.911	27258.94	0.0152	P	4.3
5	☐	250.000	257.822	53847.74	0.0306	P	4.3
6	☐	500.000	513.979	108543.05	0.0611	P	4.2
7	☐	1000.000	990.551	212865.96	0.1177	P	1.0
8	☐			88.68	0.0000	P	22.5

$$y = 1.1881E-004 * x + 7.5682E-006$$

$$R = 0.9998$$

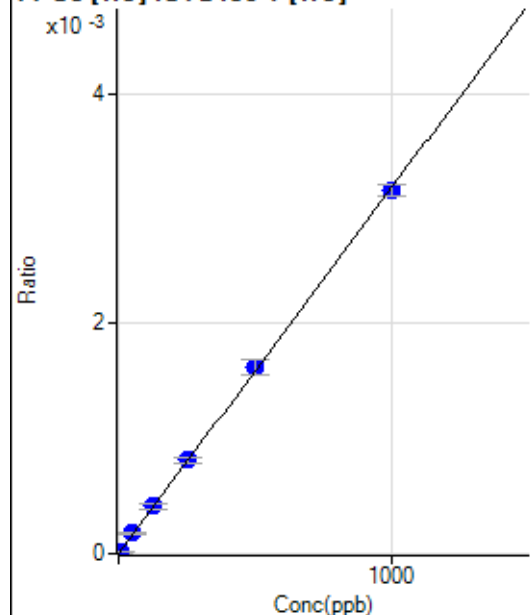
$$DL = 0.03885$$

$$BEC = 0.0637$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	4.154	24.44	0.0000	P	40.1
3	☐	50.000	56.188	317.79	0.0002	P	10.5
4	☐	125.000	129.155	736.69	0.0004	P	10.7
5	☐	250.000	256.023	1431.20	0.0008	P	6.9
6	☐	500.000	512.017	2894.77	0.0016	P	8.1
7	☐	1000.000	991.661	5703.43	0.0032	P	3.3
8	☐			0.00	0.0000	P	

$$y = 3.1803\text{E-}006 * x + 6.1333\text{E-}007$$

$$R = 0.9999$$

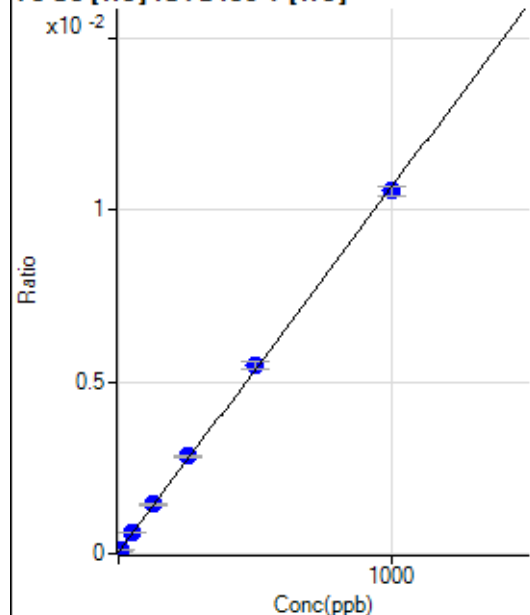
$$DL = 1.002$$

$$BEC = 0.1929$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	78.68	0.0000	P	10.6
2	☐	5.000	6.335	196.69	0.0001	P	5.5
3	☐	50.000	53.735	1088.49	0.0006	P	4.5
4	☐	125.000	131.390	2581.83	0.0014	P	5.4
5	☐	250.000	262.254	4977.39	0.0028	P	3.3
6	☐	500.000	512.662	9763.04	0.0055	P	4.6
7	☐	1000.000	989.614	19104.19	0.0106	P	2.7
8	☐			95.34	0.0001	P	7.7

$$y = 1.0631\text{E-}005 * x + 4.3613\text{E-}005$$

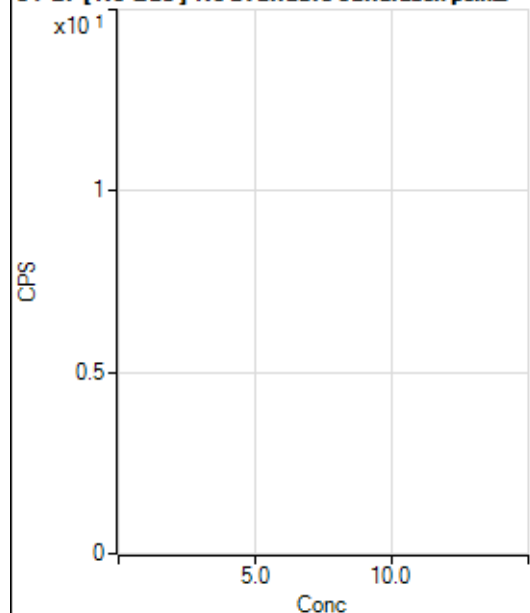
$$R = 0.9998$$

$$DL = 1.299$$

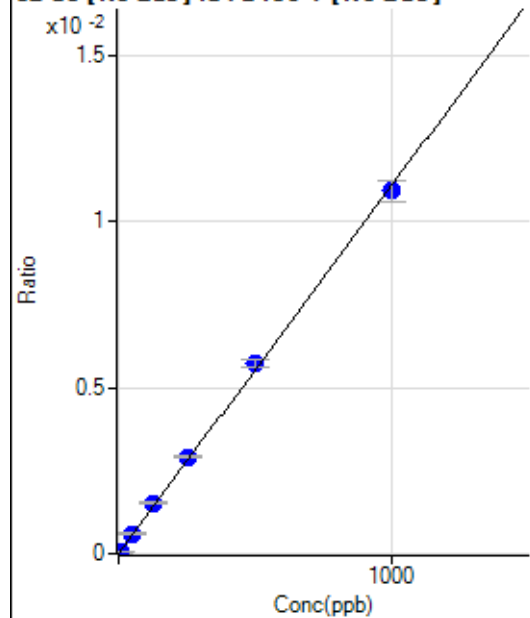
$$BEC = 4.102$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			53853.20		P	0.6
2	☐			51538.78		P	1.6
3	☐			50986.53		P	0.5
4	☐			51093.71		P	2.6
5	☐			49719.91		P	2.6
6	☐			49137.67		P	1.6
7	☐			51006.58		P	1.8
8	☐			51581.86		P	1.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	29.58	0.0000	P	86.1
2	☐	5.000	5.065	862.03	0.0001	P	9.1
3	☐	50.000	54.224	9018.29	0.0006	P	4.3
4	☐	125.000	137.605	22459.85	0.0015	P	1.6
5	☐	250.000	263.815	43344.83	0.0029	P	1.6
6	☐	500.000	517.119	86049.94	0.0057	P	3.3
7	☐	1000.000	986.200	167851.45	0.0109	P	5.6
8	☐			260.81	0.0000	P	2.1

$$y = 1.1087E-005 * x + 2.0473E-006$$

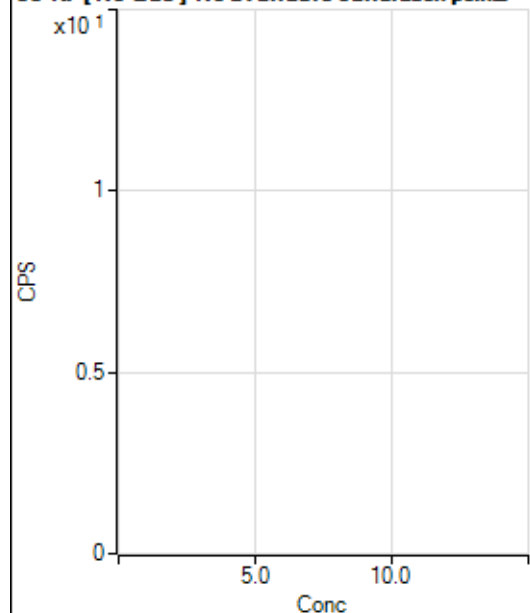
$$R = 0.9996$$

$$DL = 0.4772$$

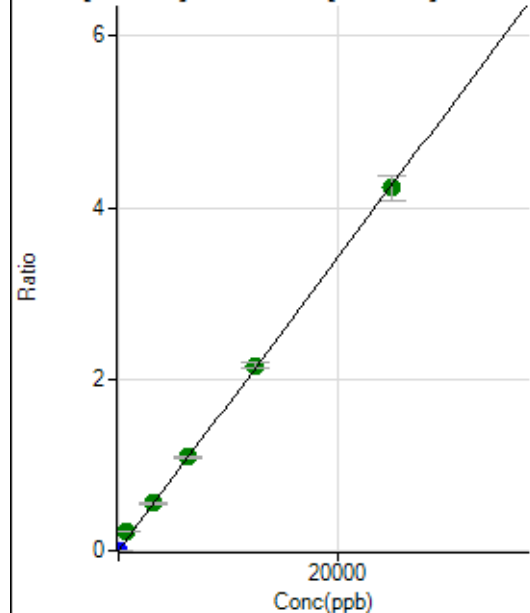
$$BEC = 0.1847$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			340.38		P	9.7
2	☐			354.96		P	3.9
3	☐			379.13		P	6.2
4	☐			343.29		P	6.6
5	☐			377.04		P	3.7
6	☐			365.79		P	2.3
7	☐			390.38		P	4.3
8	☐			393.71		P	1.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	550.03	0.0000	P	8.0
2	☐	1.000	1.097	3325.47	0.0002	P	12.3
3	☐	625.000	1288.885	3283526.09	0.2195	A	1.8
4	☐	3125.000	3235.653	8102031.78	0.5511	A	0.9
5	☐	6250.000	6410.514	16167458.69	1.0917	A	2.0
6	☐	12500.000	12681.120	32403782.32	2.1596	A	3.0
7	☐	25000.000	24838.883	64895332.70	4.2300	A	6.8
8	☐			29047.84	0.0020	P	4.7

$$y = 1.7030E-004 * x + 3.7631E-005$$

$$R = 0.9997$$

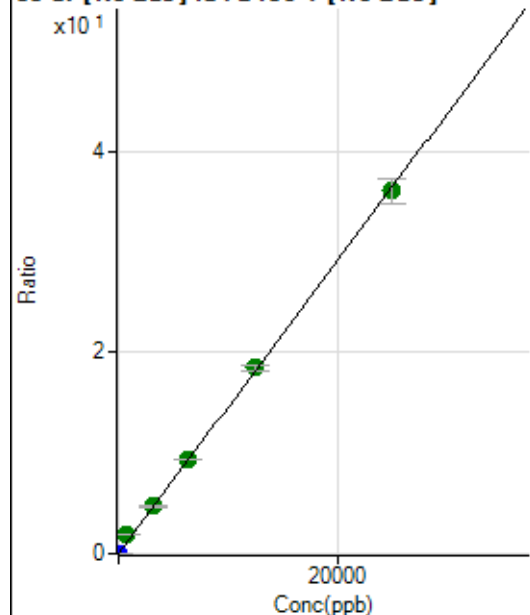
$$DL = 0.05327$$

$$BEC = 0.221$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	433.35	0.0000	P	17.0
2	☐	1.000	1.212	26568.46	0.0018	P	15.1
3	☐	625.000	1283.284	27925845.07	1.8667	A	2.4
4	☐	3125.000	3230.402	69086265.43	4.6989	A	0.9
5	☐	6250.000	6466.965	139314090.6	9.4068	A	0.4
6	☐	12500.000	12737.971	278006508.9	18.5285	A	3.2
7	☐	25000.000	24797.141	553340590.1	36.0697	A	6.9
8	☐			247402.75	0.0171	P	3.7

$$y = 0.0015 * x + 2.9681E-005$$

$$R = 0.9996$$

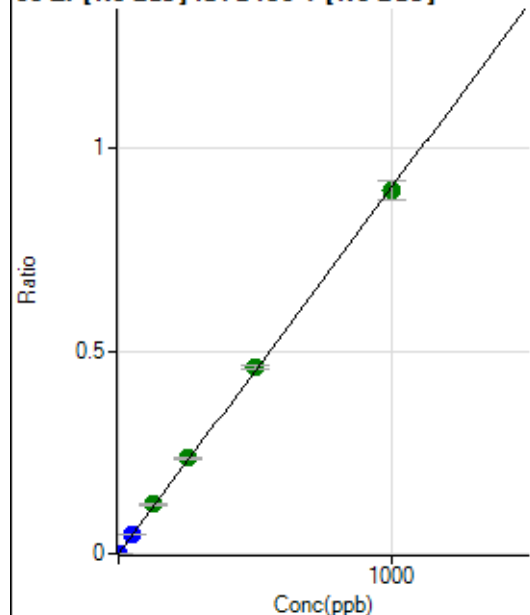
$$DL = 0.01043$$

$$BEC = 0.02041$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	516.69	0.0000	P	9.0
2	☐	1.000	0.950	13226.06	0.0009	P	3.5
3	☐	50.000	50.670	684118.93	0.0458	P	3.1
4	☐	125.000	134.720	1787643.73	0.1216	A	1.5
5	☐	250.000	261.672	3496791.18	0.2361	A	1.8
6	☐	500.000	509.433	6899407.53	0.4597	A	1.4
7	☐	1000.000	991.117	13727403.61	0.8942	A	5.2
8	☐			5731.90	0.0004	P	6.9

$$y = 9.0222E-004 * x + 3.5303E-005$$

$$R = 0.9998$$

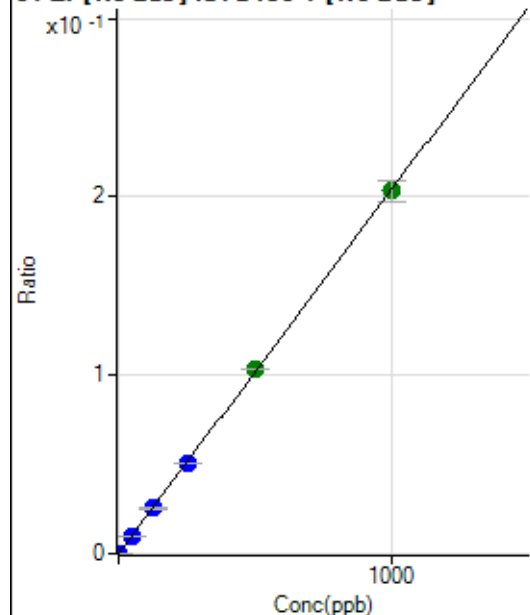
$$DL = 0.0106$$

$$BEC = 0.03913$$

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	97.23	0.0000	P	43.0
2	☐	1.000	0.898	2814.24	0.0002	P	3.3
3	☐	50.000	49.266	150388.11	0.0101	P	3.2
4	☐	125.000	125.045	375099.68	0.0255	P	1.5
5	☐	250.000	248.956	752153.62	0.0508	P	1.5
6	☐	500.000	507.351	1553712.74	0.1035	A	0.7
7	☐	1000.000	996.616	3120350.09	0.2033	A	5.7
8	☐			1300.10	0.0001	P	5.0

$$y = 2.0398\text{E-}004 * x + 6.6887\text{E-}006$$

$$R = 1.0000$$

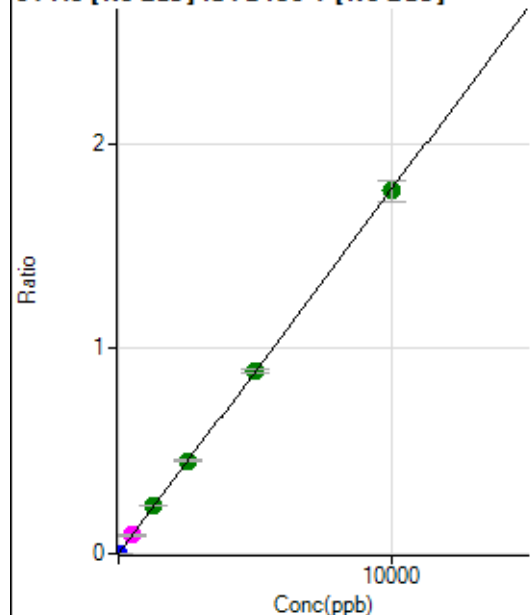
$$DL = 0.0423$$

$$BEC = 0.03279$$

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	311.12	0.0000	P	9.3
2	☐	5.000	5.696	15297.70	0.0010	P	2.5
3	☐	500.000	515.156	1367599.64	0.0915	M	5.5
4	☐	1250.000	1325.432	3460511.41	0.2354	A	1.4
5	☐	2500.000	2548.175	6700371.55	0.4524	A	1.3
6	☐	5000.000	5033.590	13412435.89	0.8937	A	2.1
7	☐	10000.000	9960.974	27143261.37	1.7686	A	5.8
8	☐			12661.67	0.0009	P	6.0

$$y = 1.7755\text{E-}004 * x + 2.1287\text{E-}005$$

$$R = 1.0000$$

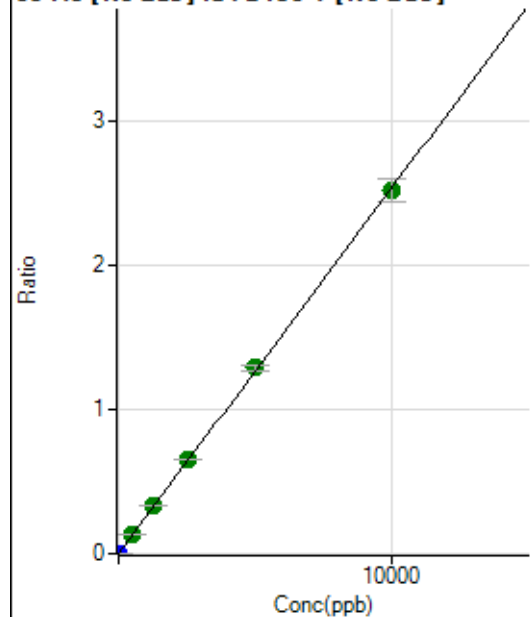
$$DL = 0.03354$$

$$BEC = 0.1199$$

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	191.67	0.0000	P	15.4
2	☐	5.000	5.033	19097.01	0.0013	P	4.6
3	☐	500.000	509.955	1933631.05	0.1293	A	2.3
4	☐	1250.000	1312.327	4891190.17	0.3327	A	1.6
5	☐	2500.000	2571.422	9654134.50	0.6519	A	0.6
6	☐	5000.000	5091.306	19370219.88	1.2907	A	2.7
7	☐	10000.000	9928.203	38619658.15	2.5169	A	6.4
8	☐			16994.17	0.0012	P	4.5

$$y = 2.5351\text{E-}004 * x + 1.3071\text{E-}005$$

$$R = 0.9999$$

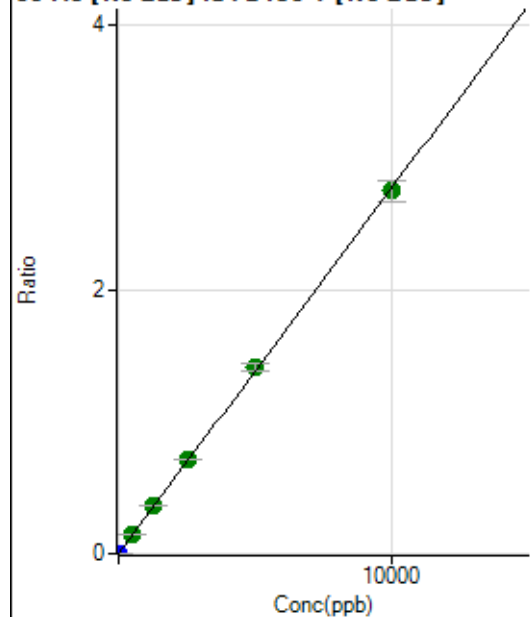
$$DL = 0.02375$$

$$BEC = 0.05156$$

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	325.02	0.0000	P	22.2
2	☐	5.000	5.177	21553.38	0.0015	P	3.3
3	☐	500.000	511.210	2116060.29	0.1415	A	3.0
4	☐	1250.000	1311.889	5338527.42	0.3631	A	0.9
5	☐	2500.000	2579.722	10573756.58	0.7140	A	1.5
6	☐	5000.000	5085.287	21117245.61	1.4075	A	4.3
7	☐	10000.000	9929.129	42175743.65	2.7481	A	5.8
8	☐			34758.25	0.0024	P	3.5

$$y = 2.7677\text{E-}004 * x + 2.2170\text{E-}005$$

$$R = 0.9999$$

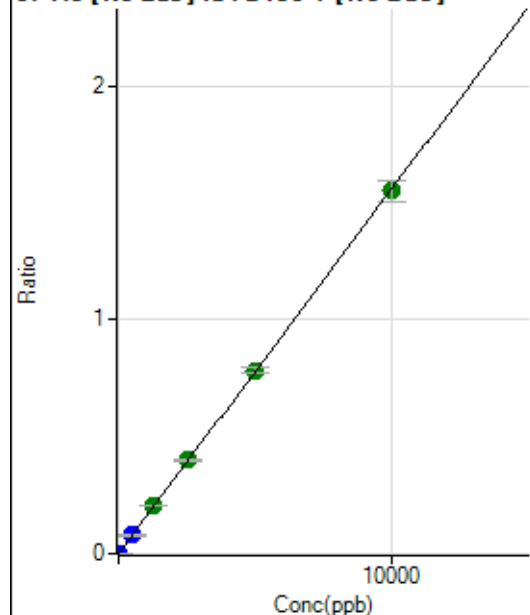
$$DL = 0.05342$$

$$BEC = 0.0801$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	141.67	0.0000	P	31.8
2	☐	5.000	5.132	11997.19	0.0008	P	1.9
3	☐	500.000	503.559	1174124.79	0.0785	P	2.8
4	☐	1250.000	1335.972	3062480.69	0.2083	A	0.1
5	☐	2500.000	2567.467	5928261.42	0.4003	A	1.1
6	☐	5000.000	5030.556	11768155.21	0.7843	A	3.4
7	☐	10000.000	9956.931	23820865.64	1.5523	A	6.2
8	☐			10501.50	0.0007	P	1.4

$$y = 1.5590\text{E-}004 * x + 9.7149\text{E-}006$$

$$R = 0.9999$$

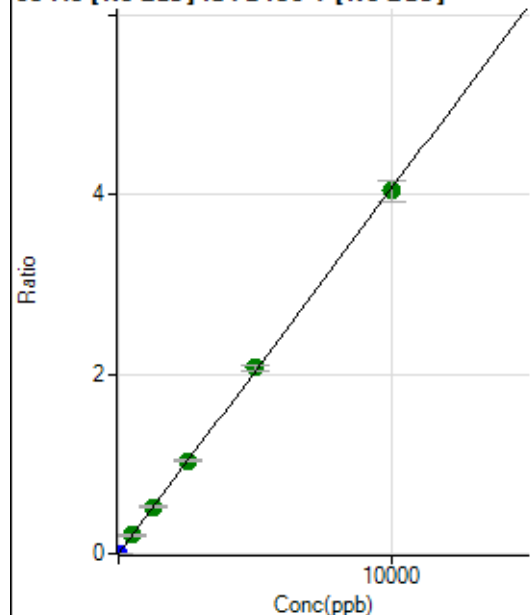
$$DL = 0.05937$$

$$BEC = 0.06231$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	330.57	0.0000	P	13.5
2	☐	5.000	4.933	30091.84	0.0020	P	2.8
3	☐	500.000	507.376	3088593.58	0.2066	A	4.7
4	☐	1250.000	1285.735	7697185.59	0.5235	A	1.1
5	☐	2500.000	2548.969	15372024.82	1.0379	A	1.9
6	☐	5000.000	5090.870	31097591.32	2.0728	A	3.8
7	☐	10000.000	9937.487	62099509.02	4.0462	A	5.8
8	☐			26178.20	0.0018	P	6.9

$$y = 4.0716\text{E-}004 * x + 2.2636\text{E-}005$$

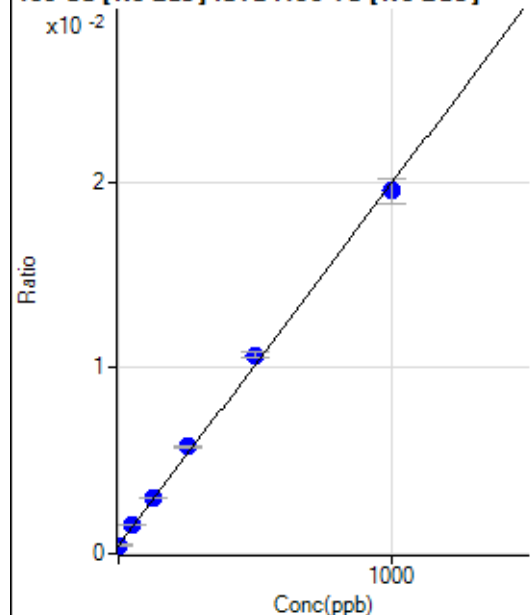
$$R = 0.9999$$

$$DL = 0.02258$$

$$BEC = 0.0556$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4392.51	0.0004	P	5.9
2	☐	1.000	1.556	4728.72	0.0005	P	6.1
3	☐	50.000	56.446	16026.36	0.0015	P	0.7
4	☐	125.000	132.531	32191.05	0.0030	P	1.4
5	☐	250.000	274.020	60746.09	0.0058	P	2.5
6	☐	500.000	526.172	113806.77	0.0107	P	2.7
7	☐	1000.000	979.645	216440.14	0.0195	P	6.6
8	☐			4395.29	0.0004	P	7.7

$$y = 1.9507\text{E-}005 * x + 4.3064\text{E-}004$$

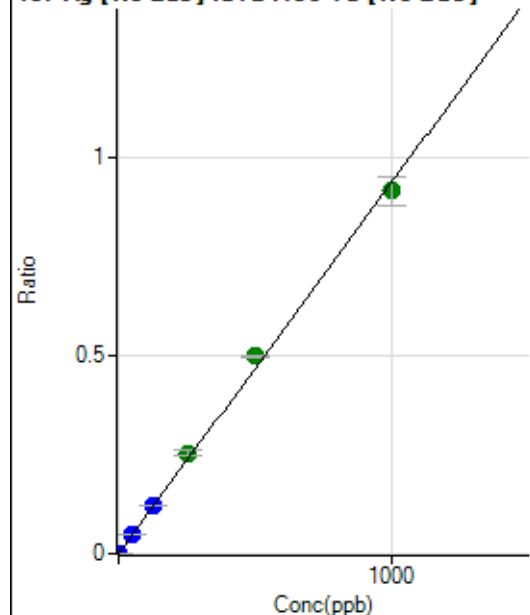
$$R = 0.9992$$

$$DL = 3.922$$

$$BEC = 22.08$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	402.79	0.0000	P	32.9
2	☐	1.000	1.083	10807.27	0.0011	P	2.1
3	☐	50.000	53.643	525839.05	0.0503	P	0.4
4	☐	125.000	128.687	1286254.41	0.1205	P	2.2
5	☐	250.000	271.706	2674279.90	0.2544	A	4.5
6	☐	500.000	531.923	5300545.13	0.4980	A	1.6
7	☐	1000.000	977.969	10134767.76	0.9156	A	7.9
8	☐			6184.92	0.0006	P	5.5

$$y = 9.3614\text{E-}004 * x + 3.9853\text{E-}005$$

$$R = 0.9989$$

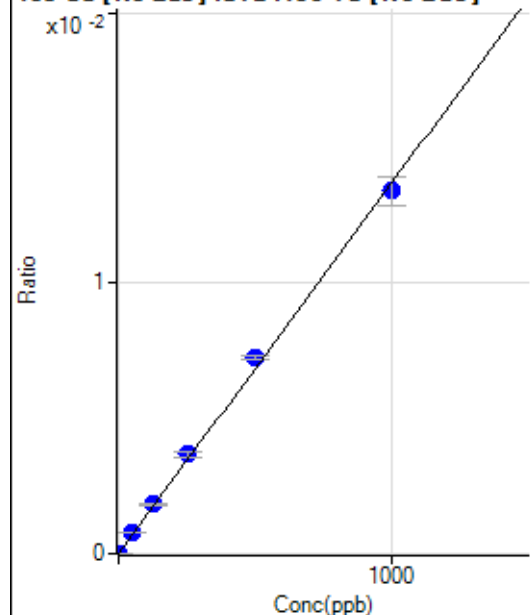
$$DL = 0.04206$$

$$BEC = 0.04257$$

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	25.00	0.0000	P	25.0
2	☐	1.000	1.256	201.39	0.0000	P	11.9
3	☐	50.000	55.565	7982.94	0.0008	P	3.1
4	☐	125.000	133.035	19458.38	0.0018	P	3.8
5	☐	250.000	267.814	38559.48	0.0037	P	4.9
6	☐	500.000	529.628	77177.57	0.0073	P	2.7
7	☐	1000.000	979.450	148422.14	0.0134	P	8.1
8	☐			136.11	0.0000	P	16.6

$$y = 1.3688\text{E-}005 * x + 2.4272\text{E-}006$$

$$R = 0.9992$$

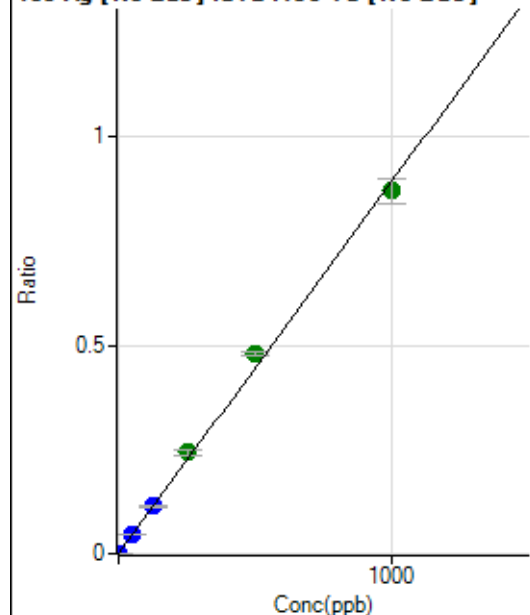
$$DL = 0.1329$$

$$BEC = 0.1773$$

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	300.01	0.0000	P	13.0
2	☐	1.000	1.026	9689.77	0.0009	P	3.8
3	☐	50.000	53.187	496686.89	0.0475	P	1.1
4	☐	125.000	127.130	1210728.57	0.1134	P	2.0
5	☐	250.000	273.740	2566388.88	0.2442	A	5.8
6	☐	500.000	535.730	5086331.28	0.4779	A	2.0
7	☐	1000.000	975.774	9640752.38	0.8704	A	7.1
8	☐			5606.85	0.0005	P	2.0

$$y = 8.9200\text{E-}004 * x + 2.9454\text{E-}005$$

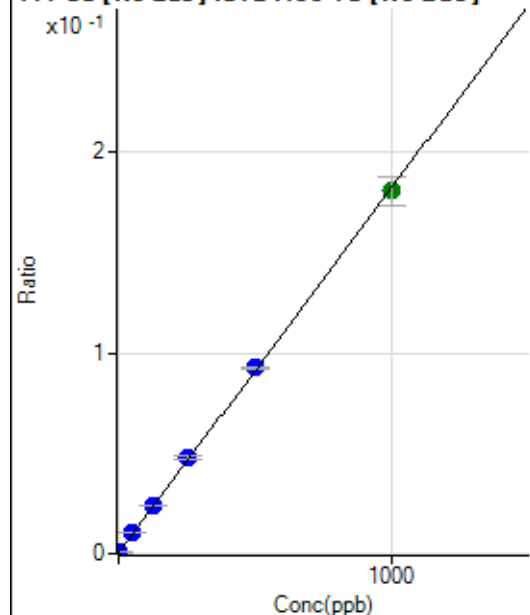
$$R = 0.9987$$

$$DL = 0.01288$$

$$BEC = 0.03302$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3154.48	0.0003	P	5.9
2	☐	1.000	1.127	5274.87	0.0005	P	7.2
3	☐	50.000	54.292	106449.84	0.0102	P	1.4
4	☐	125.000	129.848	255100.58	0.0239	P	3.0
5	☐	250.000	262.648	505067.39	0.0480	P	3.5
6	☐	500.000	507.907	985604.62	0.0926	P	1.5
7	☐	1000.000	992.064	1998574.80	0.1806	A	8.1
8	☐			4027.31	0.0004	P	8.0

$$y = 1.8170\text{E-}004 * x + 3.0926\text{E-}004$$

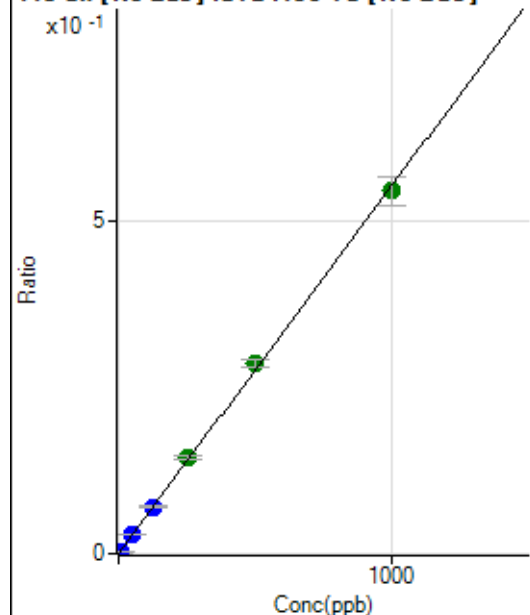
$$R = 0.9999$$

$$DL = 0.3029$$

$$BEC = 1.702$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1072.29	0.0001	P	3.9
2	☐	5.000	5.154	30223.10	0.0029	P	1.5
3	☐	50.000	51.135	295989.53	0.0283	P	1.3
4	☐	125.000	126.739	746627.69	0.0700	P	2.6
5	☐	250.000	262.710	1523648.13	0.1449	A	4.0
6	☐	500.000	519.252	3046221.55	0.2863	A	3.6
7	☐	1000.000	986.922	6022920.58	0.5441	A	8.0
8	☐			7944.17	0.0008	P	4.0

$$y = 5.5116\text{E-}004 * x + 1.0506\text{E-}004$$

$$R = 0.9996$$

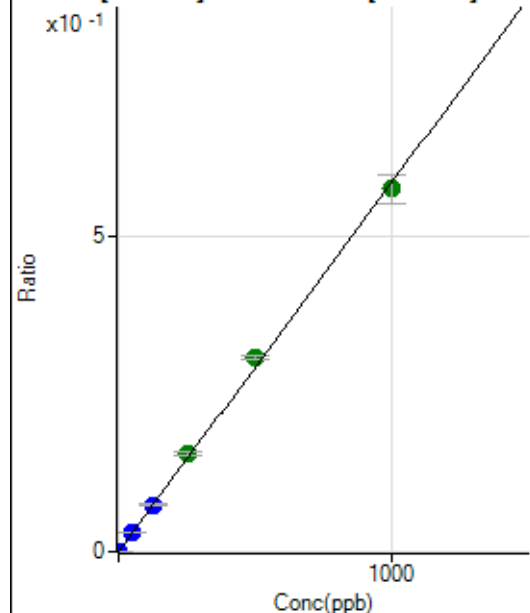
$$DL = 0.02259$$

$$BEC = 0.1906$$

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	333.35	0.0000	P	16.5
2	☐	2.000	1.987	12228.07	0.0012	P	3.3
3	☐	50.000	51.182	312886.42	0.0299	P	1.0
4	☐	125.000	127.087	792072.28	0.0742	P	1.4
5	☐	250.000	266.489	1635815.18	0.1556	A	3.3
6	☐	500.000	524.121	3256044.58	0.3059	A	2.0
7	☐	1000.000	983.497	6354813.16	0.5740	A	7.8
8	☐			4870.45	0.0005	P	8.0

$$y = 5.8364\text{E-}004 * x + 3.2621\text{E-}005$$

$$R = 0.9994$$

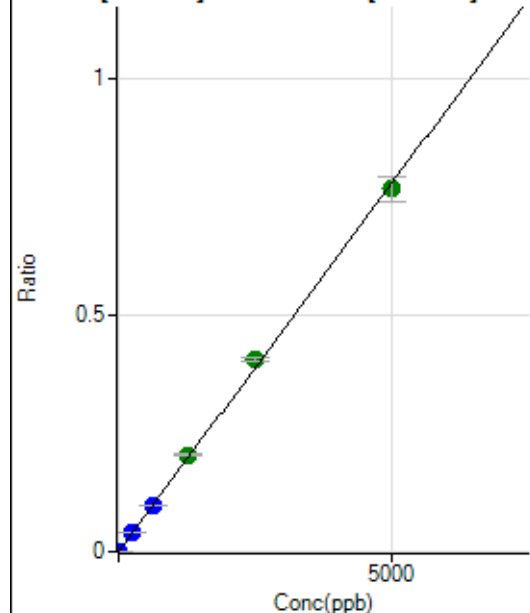
$$DL = 0.02759$$

$$BEC = 0.05589$$

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	191.67	0.0000	P	20.6
2	☐	10.000	9.564	15487.07	0.0015	P	4.0
3	☐	250.000	250.585	408914.38	0.0391	P	0.7
4	☐	625.000	620.243	1032308.63	0.0967	P	1.1
5	☐	1250.000	1314.286	2154740.56	0.2049	A	3.0
6	☐	2500.000	2610.652	4331072.19	0.4070	A	2.8
7	☐	5000.000	4929.169	8512563.12	0.7684	A	6.7
8	☐			5768.05	0.0006	P	3.6

$$y = 1.5589\text{E-}004 * x + 1.8874\text{E-}005$$

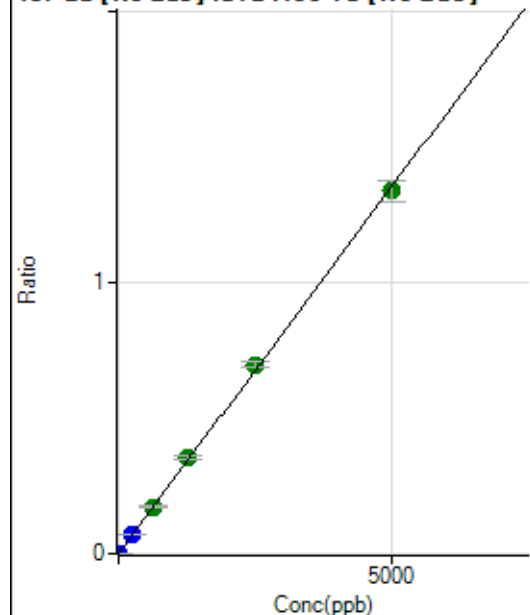
$$R = 0.9995$$

$$DL = 0.07499$$

$$BEC = 0.1211$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	355.57	0.0000	P	12.8
2	☐	10.000	9.694	27256.06	0.0027	P	1.3
3	☐	250.000	253.023	716397.37	0.0685	P	1.8
4	☐	625.000	641.835	1853427.13	0.1736	A	1.3
5	☐	1250.000	1303.294	3706844.31	0.3525	A	3.8
6	☐	2500.000	2576.729	7417665.53	0.6970	A	3.2
7	☐	5000.000	4946.057	14826712.66	1.3378	A	5.7
8	☐			10587.77	0.0010	P	3.4

$$y = 2.7048\text{E-}004 * x + 3.4891\text{E-}005$$

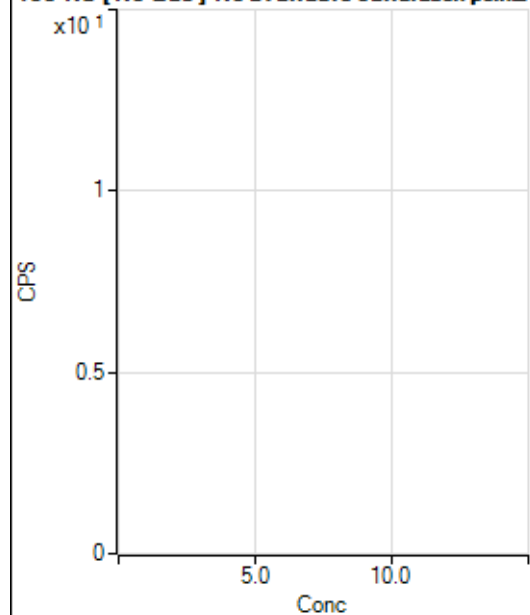
$$R = 0.9998$$

$$DL = 0.04956$$

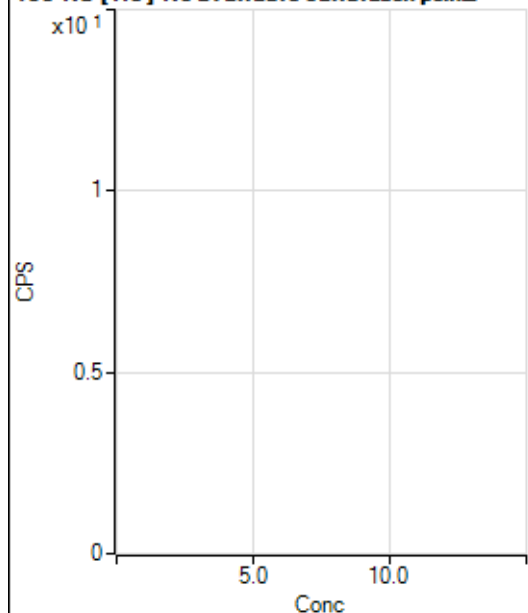
$$BEC = 0.129$$

Weight: <None>

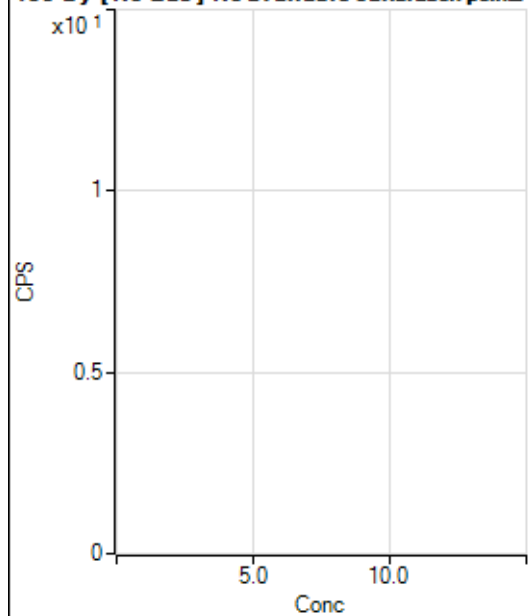
Min Conc: 0

150 Nd [No Gas] No available calibration points

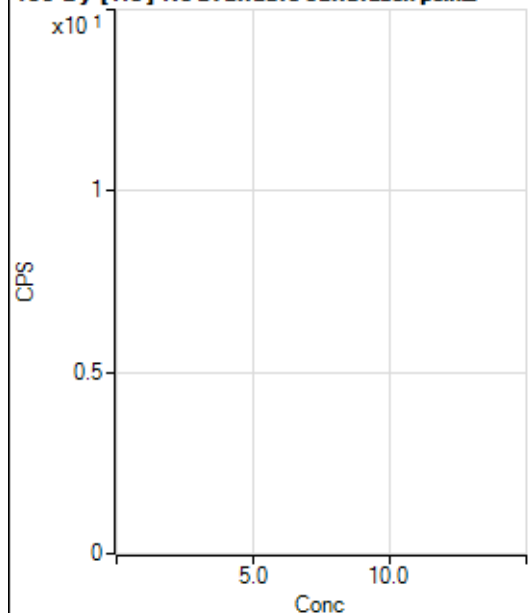
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			13.33		P	50.0
2	☐			8.89		P	114.
3	☐			60.00		P	11.1
4	☐			126.67		P	9.1
5	☐			188.89		P	2.0
6	☐			484.47		P	10.5
7	☐			857.82		P	4.0
8	☐			57.78		P	52.0

150 Nd [He] No available calibration points

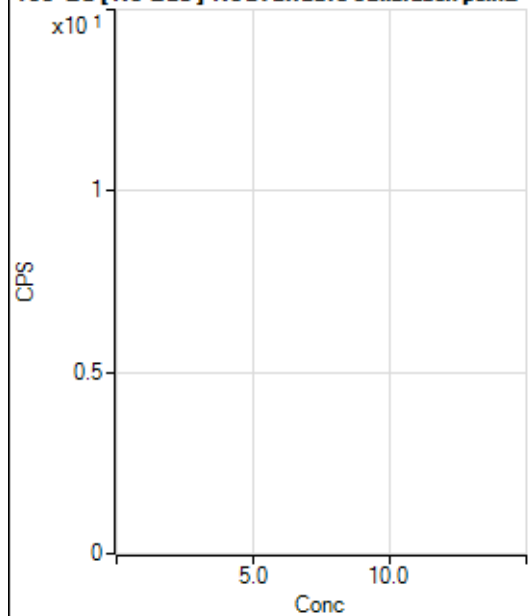
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			3.33		P	100.
3	☐			8.89		P	57.3
4	☐			20.00		P	16.7
5	☐			28.89		P	46.6
6	☐			42.22		P	37.3
7	☐			73.33		P	12.0
8	☐			16.67		P	20.0

156 Dy [No Gas] No available calibration points

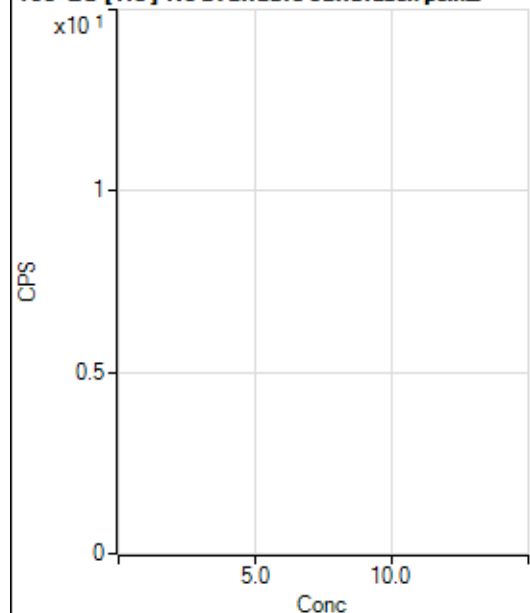
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.67		P	87.2
2	☐			36.11		P	35.3
3	☐			50.00		P	28.9
4	☐			130.56		P	42.5
5	☐			138.89		P	33.0
6	☐			305.57		P	30.2
7	☐			538.91		P	7.3
8	☐			1377.88		P	9.8

156 Dy [He] No available calibration points

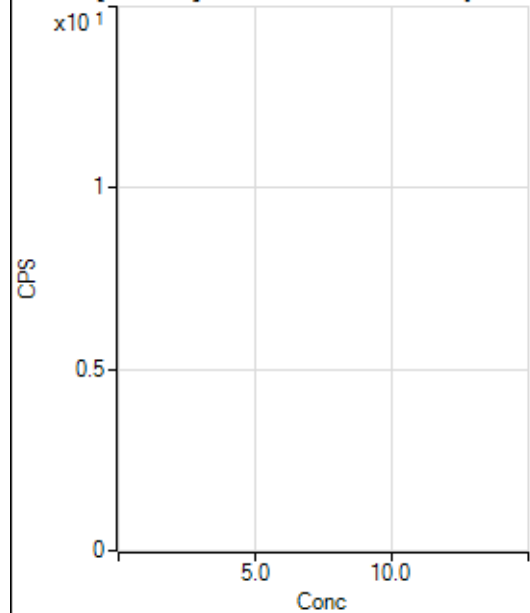
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	100.
2	☐			6.67		P	50.0
3	☐			7.78		P	24.7
4	☐			32.22		P	29.8
5	☐			51.11		P	22.9
6	☐			104.45		P	15.7
7	☐			246.67		P	14.0
8	☐			573.35		P	3.6

160 Gd [No Gas] Noavailable calibration poin_

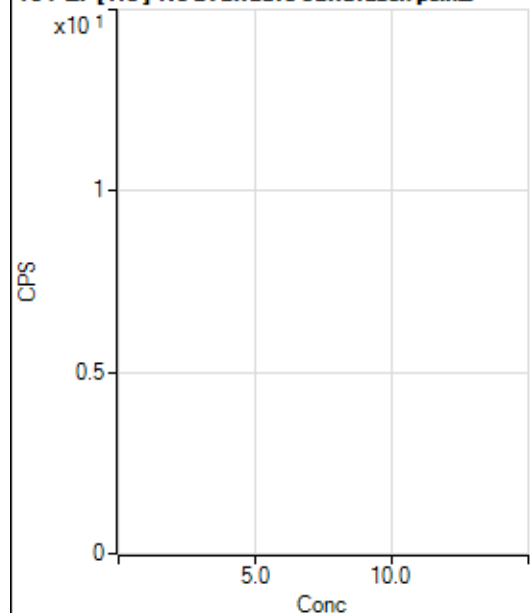
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	83.3
2	☐			83.34		P	52.9
3	☐			102.78		P	4.7
4	☐			113.89		P	21.1
5	☐			175.01		P	17.2
6	☐			302.79		P	12.4
7	☐			472.25		P	14.2
8	☐			1636.25		P	1.6

160 Gd [He] No available calibration points

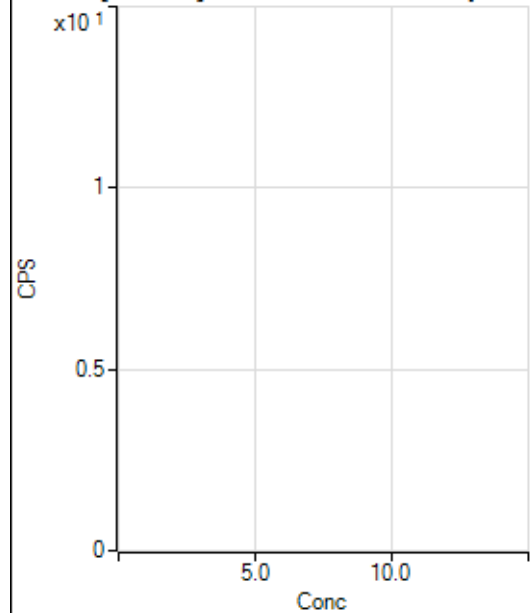
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			124.45		P	13.7
2	☐			137.78		P	9.2
3	☐			122.22		P	16.0
4	☐			143.34		P	14.5
5	☐			165.56		P	15.6
6	☐			205.56		P	3.7
7	☐			296.67		P	11.8
8	☐			860.04		P	5.1

164 Er [No Gas] No available calibration points

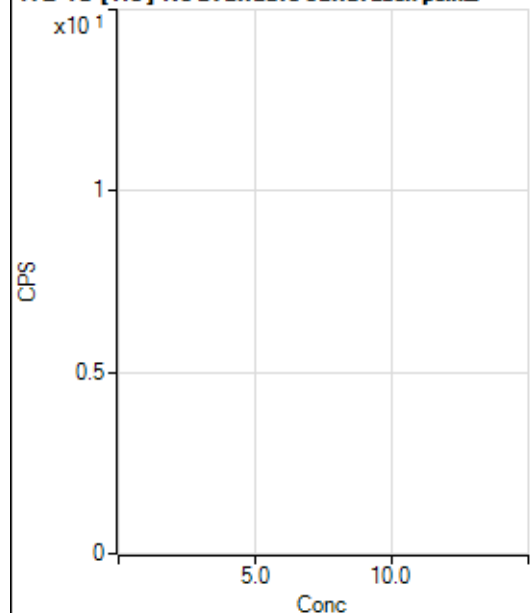
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			55.55		P	8.7
2	☐			63.89		P	27.2
3	☐			61.11		P	20.8
4	☐			97.22		P	21.6
5	☐			136.11		P	12.7
6	☐			169.45		P	22.7
7	☐			177.78		P	15.1
8	☐			102.78		P	16.9

164 Er [He] No available calibration points

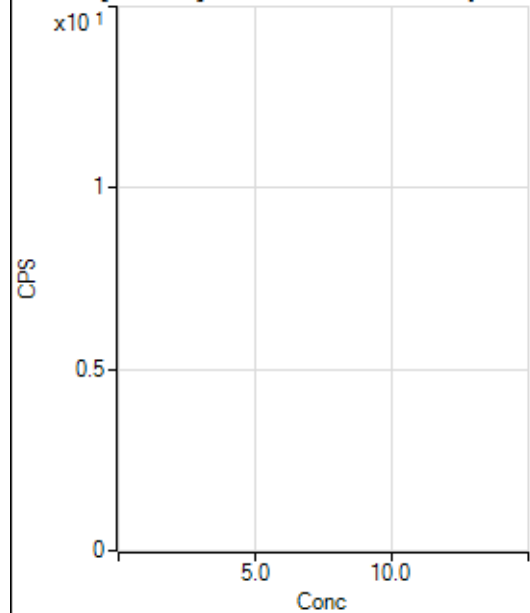
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			32.22		P	39.2
2	☐			20.00		P	44.1
3	☐			28.89		P	59.2
4	☐			42.22		P	25.4
5	☐			37.78		P	28.4
6	☐			50.00		P	6.7
7	☐			87.78		P	15.3
8	☐			43.33		P	27.7

172 Yb [No Gas] No available calibration points

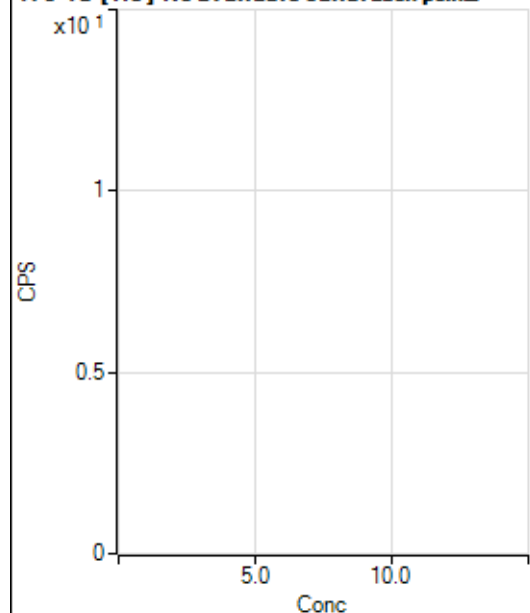
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			58.34		P	37.8
2	☐			69.44		P	27.7
3	☐			77.78		P	44.6
4	☐			83.34		P	26.5
5	☐			102.78		P	49.5
6	☐			163.89		P	12.8
7	☐			333.35		P	21.4
8	☐			561.14		P	19.2

172 Yb [He] No available calibration points

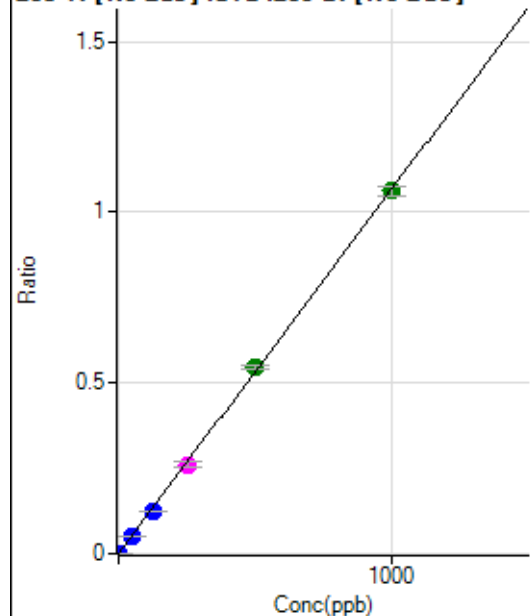
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	25.0
2	☐			29.63		P	39.0
3	☐			29.63		P	84.5
4	☐			27.78		P	52.9
5	☐			83.34		P	17.6
6	☐			74.08		P	24.1
7	☐			125.93		P	24.3
8	☐			237.04		P	29.3

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1522.35		P	4.6
2	☐			1330.66		P	5.7
3	☐			2733.69		P	5.8
4	☐			4787.11		P	4.6
5	☐			8147.26		P	4.9
6	☐			15078.47		P	3.1
7	☐			28353.20		P	0.6
8	☐			1691.82		P	5.9

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			9446.15		P	5.7
2	☐			9629.64		P	1.8
3	☐			10029.92		P	2.5
4	☐			10913.96		P	1.5
5	☐			11590.44		P	1.3
6	☐			14625.01		P	2.9
7	☐			20152.75		P	2.8
8	☐			9001.38		P	1.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	388.90	0.0001	P	12.2
2	☐	1.000	0.867	6254.48	0.0010	P	1.0
3	☐	50.000	46.335	306491.62	0.0495	P	1.4
4	☐	125.000	118.063	786504.19	0.1261	P	0.8
5	☐	250.000	245.168	1629903.46	0.2617	M	5.5
6	☐	500.000	512.649	3382988.40	0.5471	A	2.4
7	☐	1000.000	995.934	6444601.92	1.0629	A	2.6
8	☐			2611.45	0.0005	P	8.3

$$y = 0.0011 * x + 6.2926E-005$$

$$R = 0.9998$$

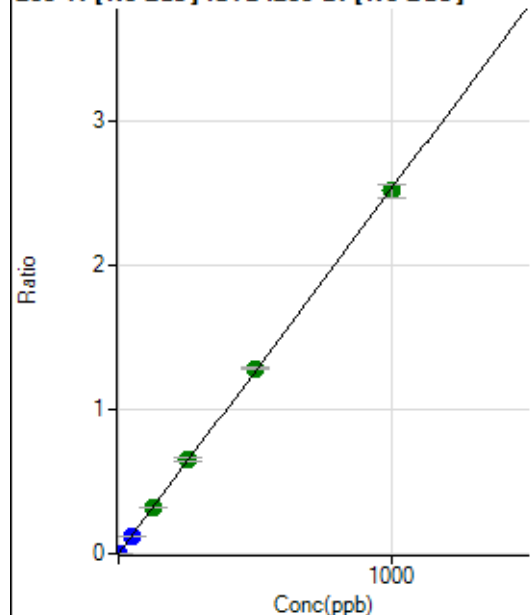
$$DL = 0.02156$$

$$BEC = 0.05897$$

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	1038.96	0.0002	P	6.5
2	☐	1.000	0.887	15262.22	0.0024	P	2.5
3	☐	50.000	46.972	737001.18	0.1191	P	1.9
4	☐	125.000	126.199	1993808.77	0.3196	A	2.7
5	☐	250.000	257.719	4064985.51	0.6524	A	2.4
6	☐	500.000	507.717	7947378.22	1.2852	A	1.3
7	☐	1000.000	994.213	15256674.30	2.5164	A	3.6
8	☐			6282.29	0.0012	P	2.6

$$y = 0.0025 * x + 1.6825E-004$$

$$R = 0.9999$$

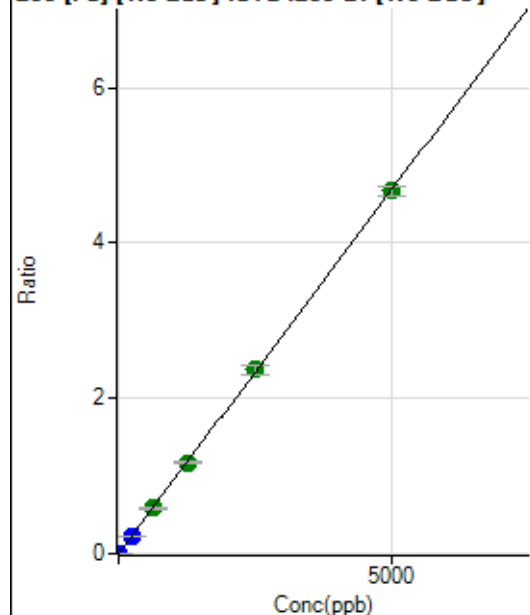
$$DL = 0.0129$$

$$BEC = 0.06648$$

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	1383.43	0.0002	P	7.4
2	☐	1.000	0.850	6453.60	0.0010	P	7.9
3	☐	250.000	226.482	1313293.01	0.2122	P	1.0
4	☐	625.000	622.767	3637981.56	0.5830	A	0.7
5	☐	1250.000	1250.061	7289475.63	1.1699	A	2.6
6	☐	2500.000	2525.238	14607400.56	2.3632	A	4.2
7	☐	5000.000	4988.821	28303628.87	4.6684	A	2.7
8	☐			10915.93	0.0021	P	4.8

$$y = 9.3573E-004 * x + 2.2415E-004$$

$$R = 1.0000$$

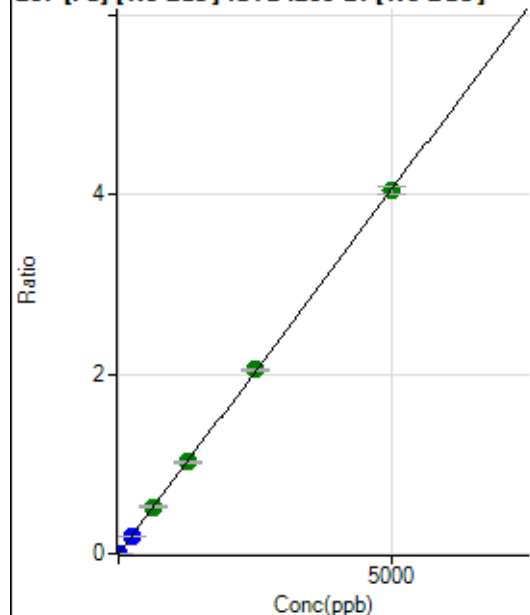
$$DL = 0.05296$$

$$BEC = 0.2395$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1153.78	0.0002	P	12.9
2	☐	1.000	0.877	5677.27	0.0009	P	3.5
3	☐	250.000	234.515	1176833.05	0.1901	P	1.6
4	☐	625.000	643.772	3253986.27	0.5216	A	1.8
5	☐	1250.000	1263.239	6375295.28	1.0233	A	2.7
6	☐	2500.000	2524.077	12641491.02	2.0444	A	1.6
7	☐	5000.000	4983.079	24472411.43	4.0360	A	2.3
8	☐			9461.02	0.0018	P	4.1

$$y = 8.0990E-004 * x + 1.8703E-004$$

$$R = 1.0000$$

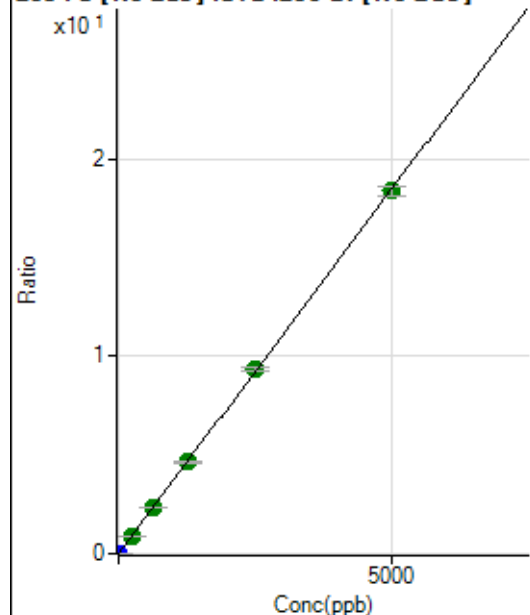
$$DL = 0.08905$$

$$BEC = 0.2309$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5441.30	0.0009	P	7.8
2	☐	1.000	0.872	25940.40	0.0041	P	4.7
3	☐	250.000	241.863	5529008.34	0.8932	A	0.1
4	☐	625.000	638.967	14712893.70	2.3582	A	1.3
5	☐	1250.000	1261.064	28991330.63	4.6533	A	2.8
6	☐	2500.000	2533.142	57785538.56	9.3463	A	2.3
7	☐	5000.000	4979.324	111381717.5	18.3709	A	2.5
8	☐			43167.67	0.0081	P	4.2

$$y = 0.0037 * x + 8.8166E-004$$

$$R = 1.0000$$

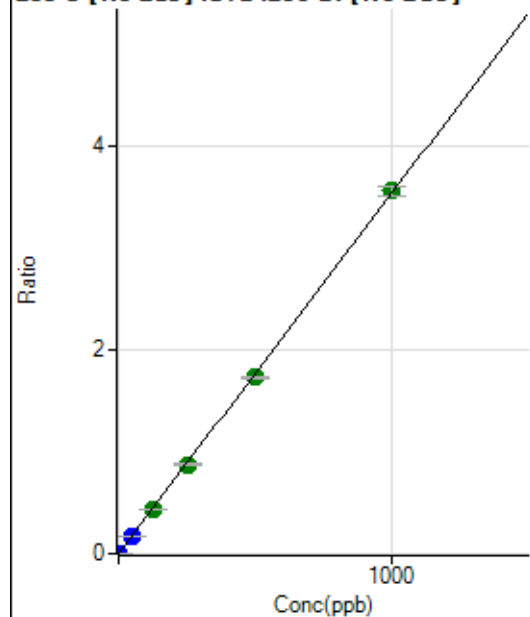
$$DL = 0.05588$$

$$BEC = 0.239$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1902.98	0.0003	P	10.2
2	☐	1.000	0.851	20962.42	0.0033	P	2.5
3	☐	50.000	46.180	1011719.20	0.1634	P	0.3
4	☐	125.000	123.256	2718743.96	0.4357	A	0.5
5	☐	250.000	246.068	5417995.17	0.8695	A	1.7
6	☐	500.000	488.870	10682118.29	1.7272	A	0.5
7	☐	1000.000	1006.957	21566990.24	3.5573	A	2.8
8	☐			5732.02	0.0011	P	4.2

$$y = 0.0035 * x + 3.0787E-004$$

$$R = 0.9999$$

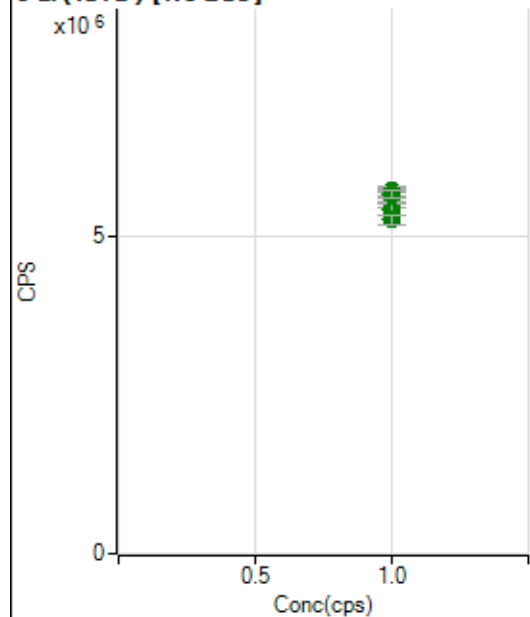
$$DL = 0.02668$$

$$BEC = 0.08716$$

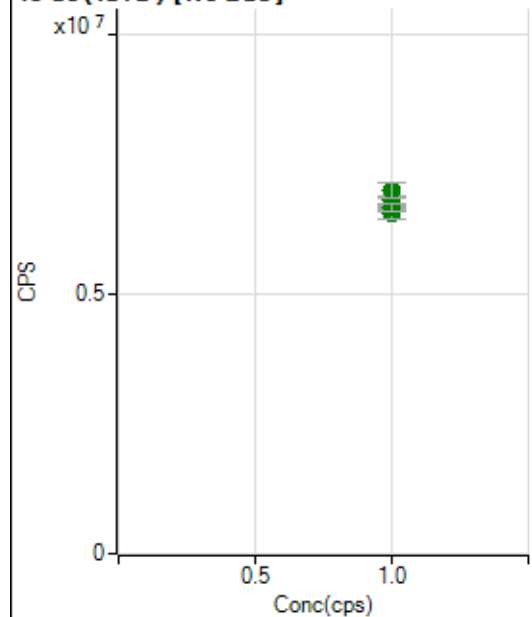
Weight: <None>

Min Conc: 0

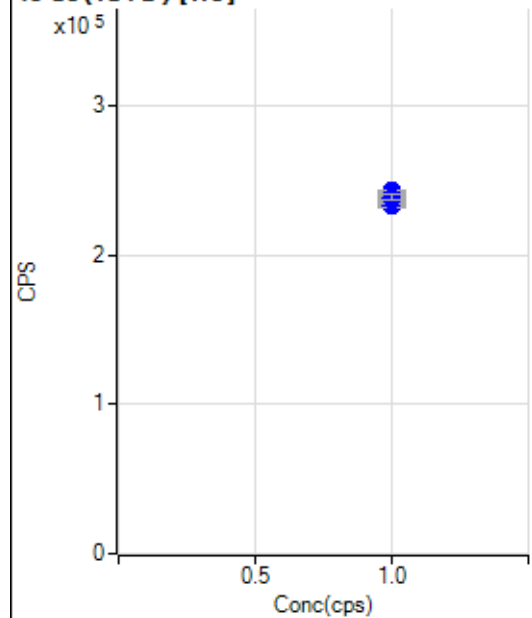
6 Li (ISTD) [No Gas]



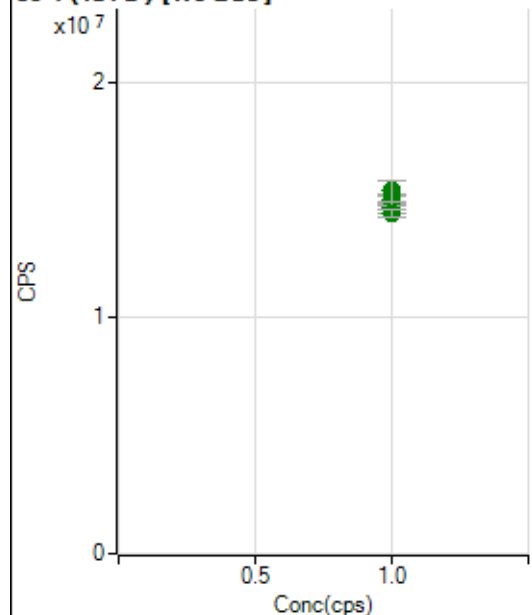
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5516247.46		A	2.7
2	☐	1.000		5421435.30		A	3.5
3	☐	1.000		5632733.52		A	3.4
4	☐	1.000		5635919.32		A	3.5
5	☐	1.000		5644954.65		A	1.8
6	☐	1.000		5703639.35		A	2.4
7	☐	1.000		5644234.69		A	2.1
8	☐	1.000		5250121.40		A	3.2

45 Sc (ISTD) [No Gas]

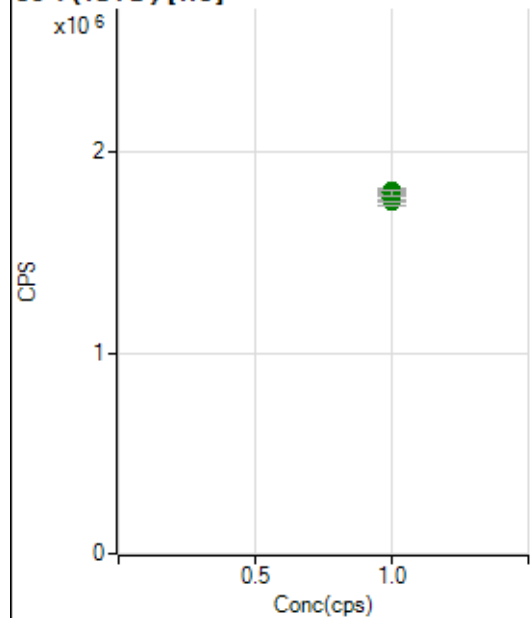
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6556586.50		A	3.8
2	☐	1.000		6669575.25		A	1.1
3	☐	1.000		6721700.25		A	1.0
4	☐	1.000		6710360.11		A	0.5
5	☐	1.000		6832050.46		A	2.2
6	☐	1.000		6670847.82		A	0.8
7	☐	1.000		6995685.73		A	4.3
8	☐	1.000		6677720.11		A	2.1

45 Sc (ISTD) [He]

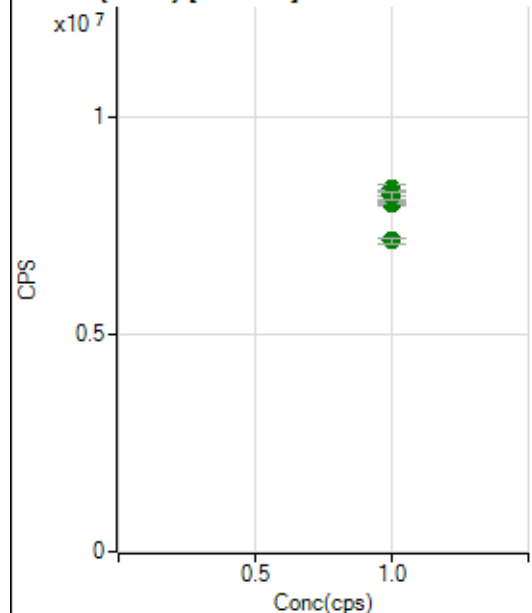
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		239372.73		P	0.9
2	☐	1.000		243215.33		P	0.6
3	☐	1.000		240052.16		P	2.5
4	☐	1.000		235144.46		P	1.0
5	☐	1.000		233417.64		P	1.2
6	☐	1.000		236897.87		P	1.5
7	☐	1.000		238151.78		P	1.3
8	☐	1.000		238684.04		P	1.5

89 Y (ISTD) [No Gas]

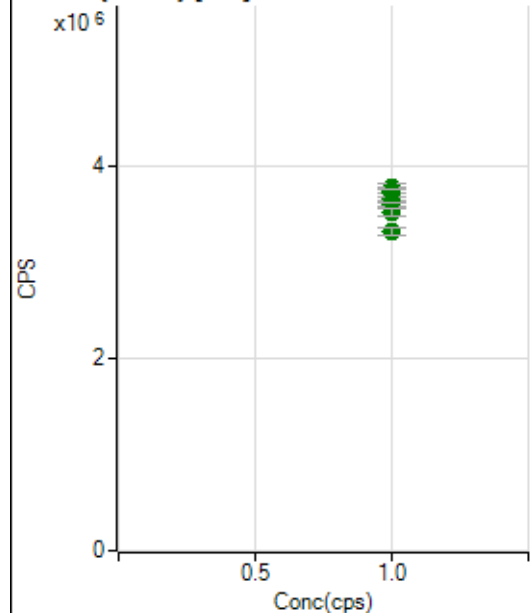
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14631917.98		A	2.3
2	☐	1.000		14815850.19		A	0.6
3	☐	1.000		14962047.69		A	2.8
4	☐	1.000		14702892.42		A	1.0
5	☐	1.000		14809896.59		A	0.7
6	☐	1.000		15013461.17		A	3.0
7	☐	1.000		15381249.49		A	5.7
8	☐	1.000		14437053.67		A	2.6

89 Y (ISTD) [He]

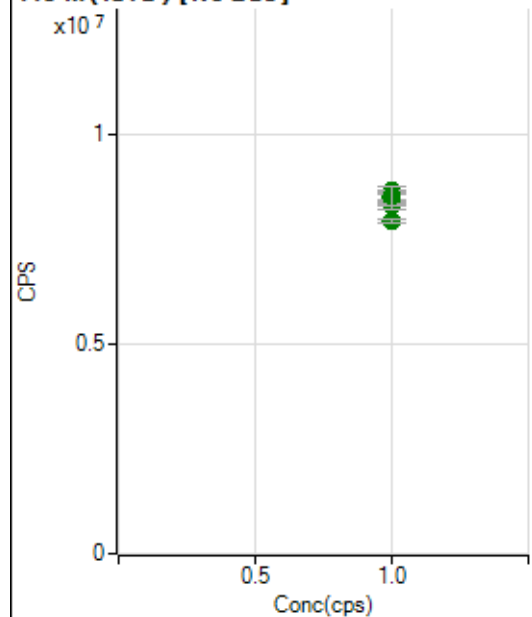
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1804056.92		A	1.0
2	☐	1.000		1773265.18		A	1.2
3	☐	1.000		1770164.09		A	1.7
4	☐	1.000		1794231.52		A	2.9
5	☐	1.000		1758824.73		A	3.0
6	☐	1.000		1778381.50		A	2.4
7	☐	1.000		1808703.29		A	1.9
8	☐	1.000		1798780.18		A	1.3

103 Rh (ISTD) [No Gas]

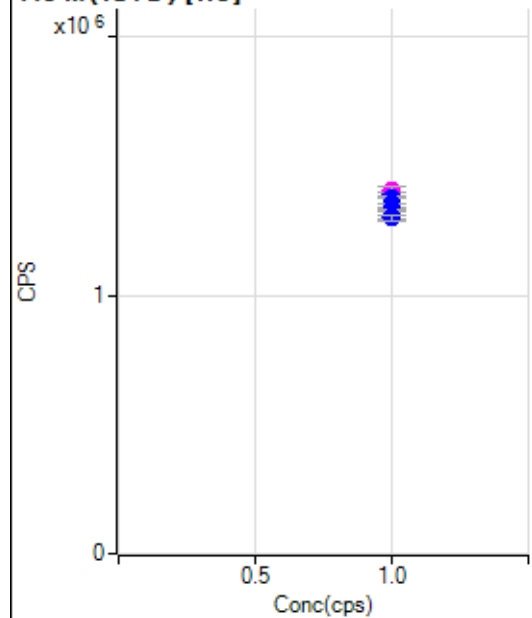
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8235129.61		A	1.1
2	☐	1.000		8350803.31		A	2.0
3	☐	1.000		8256889.42		A	1.5
4	☐	1.000		8170243.76		A	2.9
5	☐	1.000		8034401.74		A	1.9
6	☐	1.000		8033460.51		A	0.5
7	☐	1.000		8172720.06		A	2.2
8	☐	1.000		7155531.50		A	1.7

103 Rh (ISTD) [He]

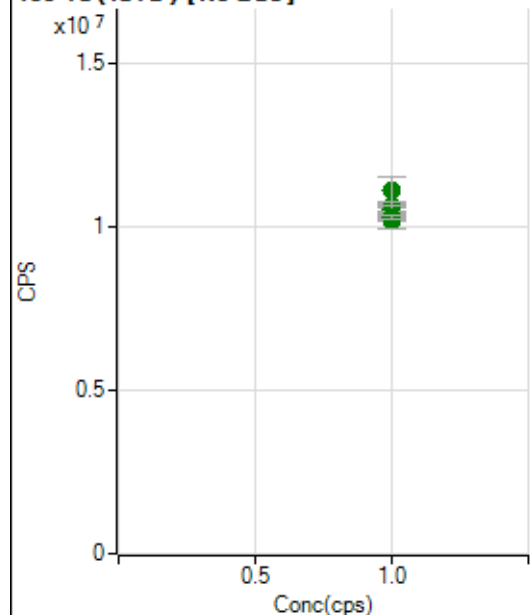
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3778348.00		A	3.0
2	☐	1.000		3746323.73		A	1.6
3	☐	1.000		3726458.00		A	1.8
4	☐	1.000		3663926.33		A	1.5
5	☐	1.000		3616592.93		A	1.8
6	☐	1.000		3605099.46		A	1.4
7	☐	1.000		3530572.48		A	2.4
8	☐	1.000		3323450.12		A	2.4

115 In (ISTD) [No Gas]

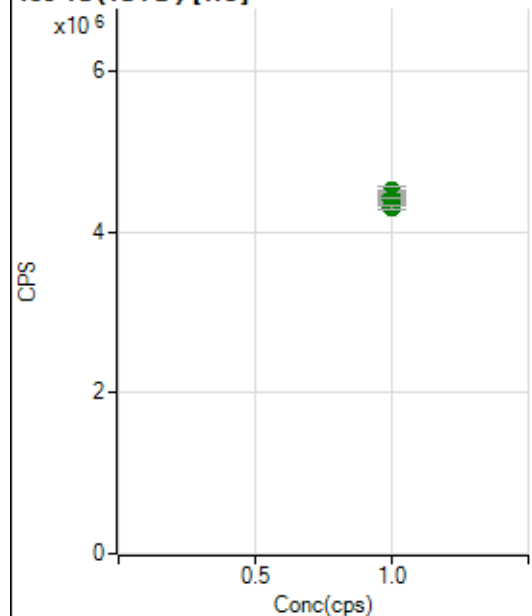
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8483095.22		A	2.7
2	☐	1.000		8667154.33		A	0.6
3	☐	1.000		8502579.46		A	3.9
4	☐	1.000		8414121.73		A	0.8
5	☐	1.000		8448365.40		A	0.5
6	☐	1.000		8300081.87		A	2.0
7	☐	1.000		8550885.94		A	5.5
8	☐	1.000		7937265.21		A	1.0

115 In (ISTD) [He]

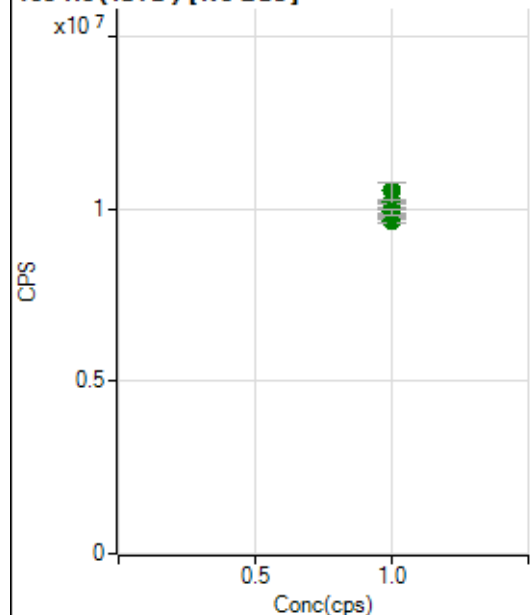
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1390504.58		P	0.9
2	☐	1.000		1404217.89		M	2.6
3	☐	1.000		1380007.72		P	0.9
4	☐	1.000		1355223.57		P	0.4
5	☐	1.000		1331289.64		P	1.0
6	☐	1.000		1327392.75		P	0.5
7	☐	1.000		1303358.02		P	0.7
8	☐	1.000		1299284.03		P	1.7

159 Tb (ISTD) [No Gas]

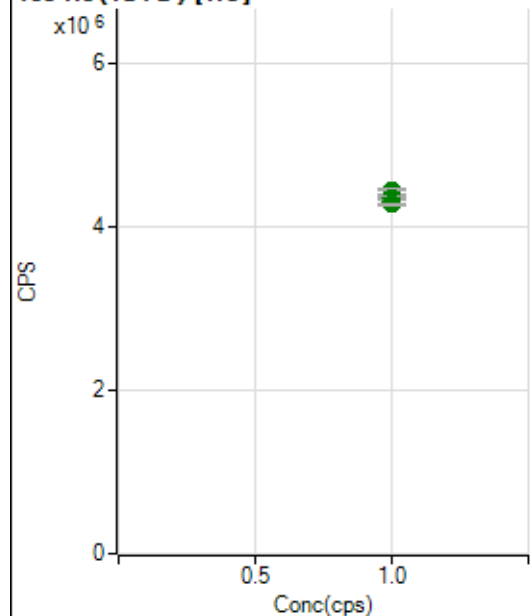
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10220298.39		A	5.0
2	☐	1.000		10258987.00		A	1.3
3	☐	1.000		10462916.99		A	0.4
4	☐	1.000		10675701.23		A	1.9
5	☐	1.000		10522868.73		A	3.4
6	☐	1.000		10646780.26		A	2.7
7	☐	1.000		11114035.60		A	7.6
8	☐	1.000		10294955.75		A	1.1

159 Tb (ISTD) [He]

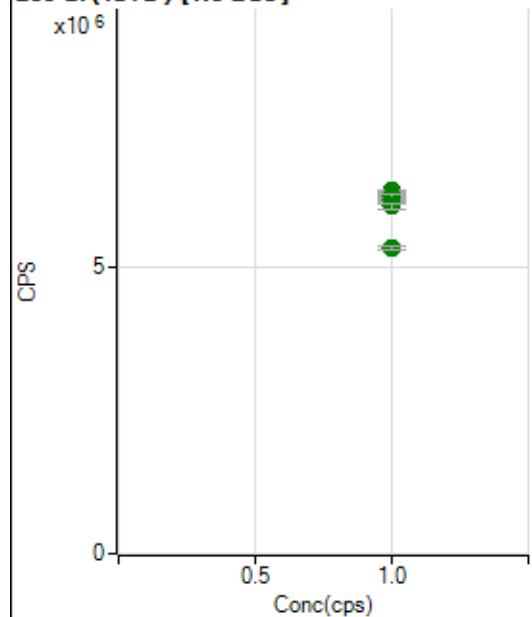
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4396632.33		A	0.4
2	☐	1.000		4512498.51		A	2.9
3	☐	1.000		4429376.36		A	2.7
4	☐	1.000		4424911.56		A	1.9
5	☐	1.000		4445836.57		A	3.2
6	☐	1.000		4437752.47		A	2.9
7	☐	1.000		4389533.65		A	1.5
8	☐	1.000		4305645.04		A	1.6

165 Ho (ISTD) [No Gas]

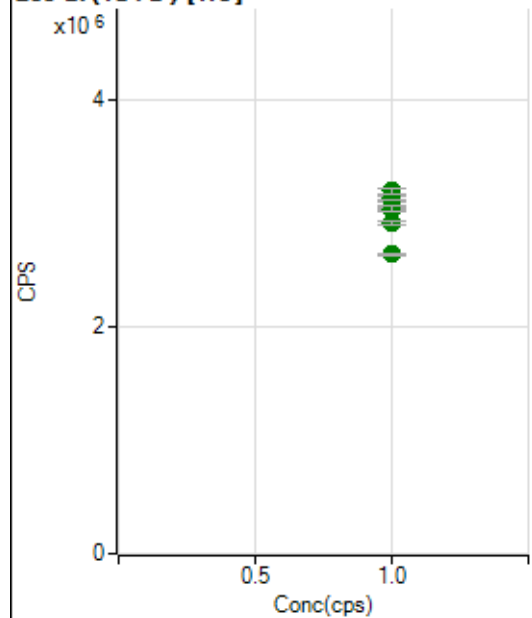
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9638247.35		A	1.2
2	☐	1.000		9813397.62		A	0.9
3	☐	1.000		9986702.91		A	3.6
4	☐	1.000		10009378.96		A	2.5
5	☐	1.000		10134245.19		A	1.7
6	☐	1.000		10203358.82		A	0.8
7	☐	1.000		10522186.52		A	5.1
8	☐	1.000		9904837.63		A	1.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4318311.15		A	1.8
2	☐	1.000		4310571.53		A	1.3
3	☐	1.000		4440851.77		A	1.4
4	☐	1.000		4364194.66		A	3.6
5	☐	1.000		4363486.56		A	2.0
6	☐	1.000		4331407.47		A	2.1
7	☐	1.000		4357526.36		A	0.9
8	☐	1.000		4272981.78		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6176722.27		A	1.7
2	☐	1.000		6327137.69		A	0.5
3	☐	1.000		6190318.80		A	0.7
4	☐	1.000		6239968.73		A	1.7
5	☐	1.000		6231987.96		A	1.6
6	☐	1.000		6185100.39		A	2.7
7	☐	1.000		6064796.78		A	1.8
8	☐	1.000		5321424.12		A	1.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3122855.44		A	1.6
2	☐	1.000		3137684.88		A	2.1
3	☐	1.000		3132947.63		A	1.6
4	☐	1.000		3193941.24		A	1.7
5	☐	1.000		3038326.38		A	0.9
6	☐	1.000		3033865.09		A	1.8
7	☐	1.000		2911960.69		A	0.8
8	☐	1.000		2637153.70		A	0.7

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8012123 MS.b

Acq. Date-Time 2023-01-12 14:18:57

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		16877	168774.80			1.325	5.000
24		119670	1196703.43			1.925	5.000
25		15258	152584.53			1.027	5.000
26		17753	177527.26			2.037	5.000
59		79213	792133.06			0.813	5.000
113		7638	76377.88			1.200	5.000
115		102143	1021426.83			1.721	5.000
206		20544	205436.72			1.503	5.000
207		18349	183489.04			1.402	5.000
208		44025	440253.49			1.183	5.000
220		0	4.40			37.171	

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

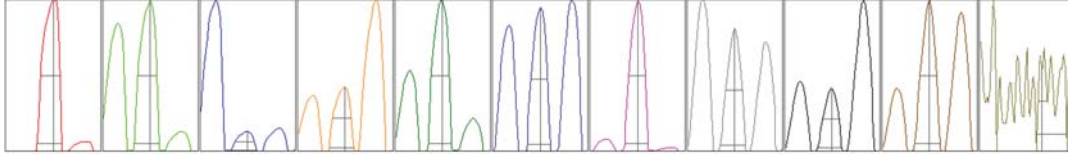
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	17235	16963	16729	16733	16728
24	120409	120380	122667	116640	118255
25	15152	15197	15536	15205	15202
26	17888	17611	18322	17437	17506
59	79526	78406	78639	79687	79809
113	7774	7616	7622	7519	7657
115	103755	102952	102577	102272	99158
206	21074	20419	20446	20272	20507
207	18763	18225	18081	18281	18394
208	44917	43591	43856	44008	43755

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	29063.40	9.05	8.90 - 9.10	
24	210647.51	24.00	23.90 - 24.10	
25	27117.72	25.00	24.90 - 25.10	
26	31308.12	26.00	25.90 - 26.10	
59	146266.36	59.00	58.90 - 59.10	
113	15277.80	113.05	112.90 - 113.10	
115	204195.43	115.05	114.90 - 115.10	
206	41269.81	206.00	205.90 - 206.10	
207	36833.99	207.00	206.90 - 207.10	
208	88366.79	208.00	207.90 - 208.10	
220	0.60	220.50	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.779	0.900	
24	0.61	0.784	0.900	
25	0.59	0.785	0.900	
26	0.61	0.781	0.900	
59	0.57	0.738	0.900	
113	0.52	0.728	0.900	
115	0.51	0.734	0.900	
206	0.52	0.793	0.900	
207	0.52	0.749	0.900	
208	0.52	0.807	0.900	
220	0.30	0.924		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 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	10.3 V	Deflect	15.4 V
Extract 2	-185.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-90 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	180 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.7 mm
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EM

Discriminator	4.5 mV	Analog HV	2304 V	Pulse HV	1633 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		16364	163644.01			0.473	
89		18973	189733.66			1.322	
205		12100	120995.57			0.849	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	16397	16432	16316	16425	16253
89	19184	19300	18757	18778	18848
205	12050	12170	12162	11941	12174

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 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	10.3 V	Deflect	3.6 V
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US EPA Tune Check Report

Extract 2	-185.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-90 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	0.9993	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.7 mm
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EM

Discriminator	4.5 mV	Analog HV	2304 V	Pulse HV	1633 V
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