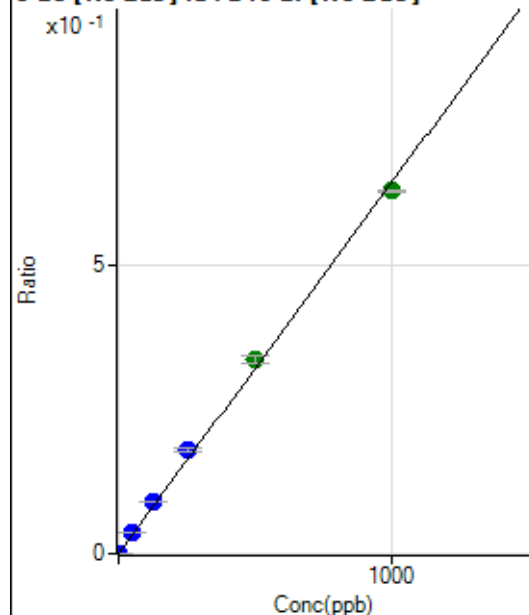


Calibration for 011CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8042922-MS.b\
 Analysis File: P8042922-MS.batch.bin
 DA Date-Time: 2022-04-30 00:36:59
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-04-29 11:51:55
2	005CALS.d	S02	2022-04-29 11:55:01
3	006CALS.d	S03	2022-04-29 11:58:09
4	007CALS.d	S04	2022-04-29 12:01:13
5	008CALS.d	S05	2022-04-29 12:04:18
6	009CALS.d	S06	2022-04-29 12:07:22
7	010CALS.d	S07	2022-04-29 12:10:27
8	011CALS.d	S08	2022-04-29 12:13:31

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	61.7
2	☐	1.000	1.187	2547.06	0.0008	P	3.5
3	☐	50.000	56.998	122040.12	0.0366	P	4.1
4	☐	125.000	140.038	304985.60	0.0898	P	2.5
5	☐	250.000	280.040	610881.06	0.1796	P	2.2
6	☐	500.000	523.902	1157936.21	0.3361	A	3.2
7	☐	1000.000	978.309	2290916.01	0.6276	A	0.8
8	☐			277.28	0.0001	P	12.5

$$y = 6.4149\text{E-}004 * x + 3.0284\text{E-}006$$

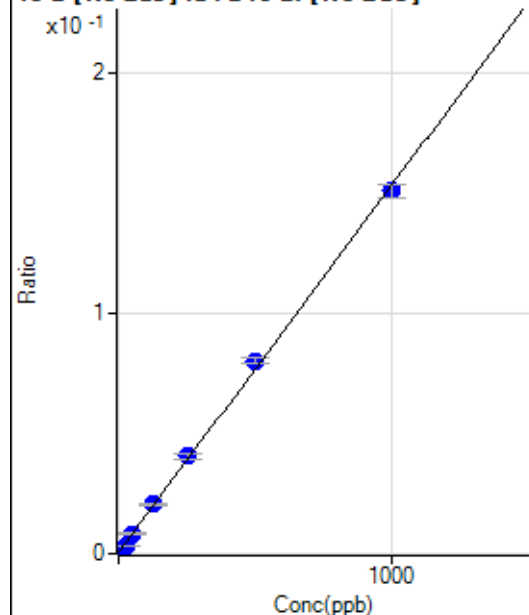
$$R = 0.9990$$

$$DL = 0.008736$$

$$BEC = 0.004721$$

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	1713.10	0.0005	P	2.0
2	☐	25.000	19.476	11619.73	0.0035	P	4.2
3	☐	50.000	50.322	27353.64	0.0082	P	5.3
4	☐	125.000	130.996	69692.77	0.0205	P	2.6
5	☐	250.000	262.294	137861.65	0.0406	P	6.9
6	☐	500.000	521.297	276143.10	0.0801	P	2.9
7	☐	1000.000	985.651	551241.71	0.1511	P	4.1
8	☐			37675.85	0.0115	P	9.7

$$y = 1.5273\text{E-}004 * x + 5.1252\text{E-}004$$

$$R = 0.9995$$

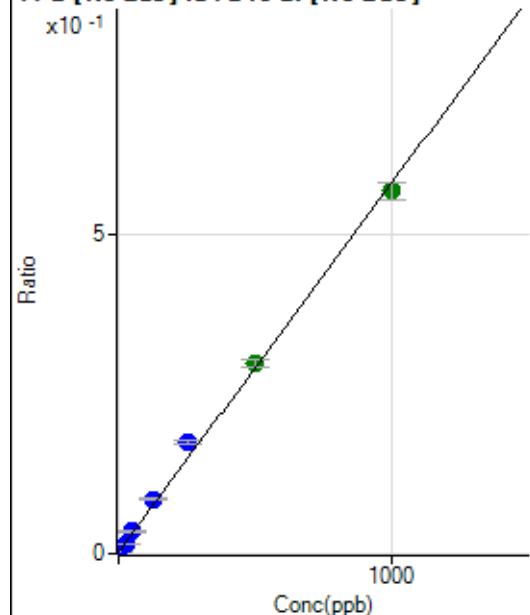
$$DL = 0.2005$$

$$BEC = 3.356$$

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	7395.77	0.0022	P	4.3
2	☐	25.000	23.726	53041.60	0.0159	P	6.0
3	☐	50.000	57.864	118906.09	0.0356	P	6.4
4	☐	125.000	143.874	289788.43	0.0853	P	2.1
5	☐	250.000	299.839	596406.47	0.1754	P	4.1
6	☐	500.000	511.236	1025358.75	0.2975	A	3.7
7	☐	1000.000	979.202	2072044.52	0.5679	A	5.1
8	☐			161498.61	0.0492	P	6.9

$$y = 5.7767E-004 * x + 0.0022$$

$$R = 0.9984$$

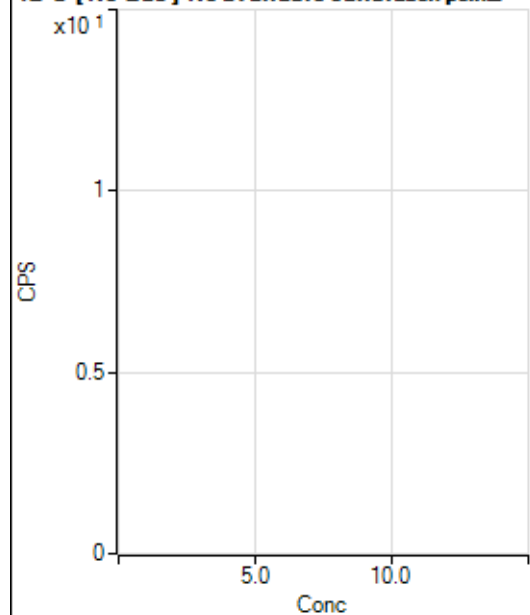
$$DL = 0.5001$$

$$BEC = 3.833$$

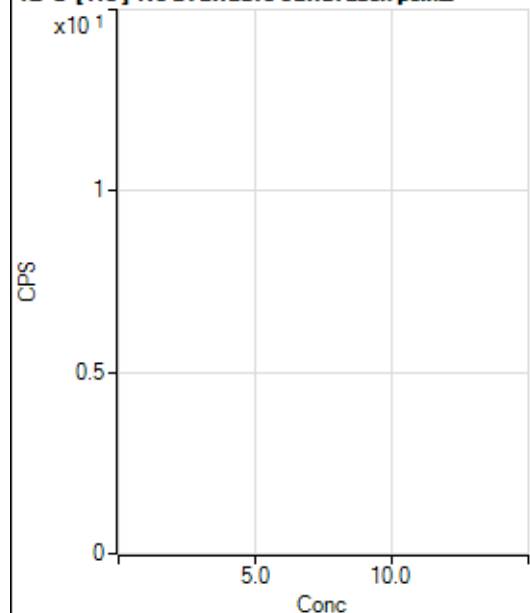
Weight: <None>

Min Conc: 0

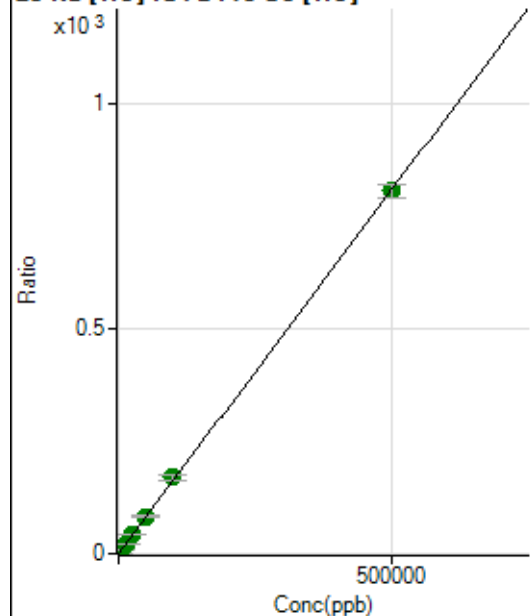
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3741206.85		A	1.0
2	☐			4365217.28		A	0.3
3	☐			4632409.31		A	2.3
4	☐			4848932.97		A	1.4
5	☐			4724071.76		A	1.8
6	☐			4893506.14		A	2.9
7	☐			5511244.91		A	3.5
8	☐			4718160.87		A	1.9

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			39921.64		P	1.0
2	☐			48597.86		P	2.6
3	☐			51204.16		P	2.1
4	☐			54797.62		P	1.2
5	☐			53498.60		P	0.5
6	☐			56741.25		P	0.5
7	☐			64545.33		P	0.8
8	☐			58336.34		P	1.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11015.56	0.0779	P	1.6
2	☐	500.000	492.078	124173.21	0.8737	P	2.5
3	☐	5000.000	5029.416	1151436.68	8.2112	A	1.4
4	☐	12500.000	12503.177	2810448.44	20.2974	A	2.7
5	☐	25000.000	25486.568	5523899.78	41.2935	A	2.7
6	☐	50000.000	50787.399	11188375.77	82.2088	A	3.9
7	☐	100000.00	105342.22	22550695.99	170.4321	A	8.2
8	☐	500000.00	498828.12	114301640.0	806.7578	A	3.4

$$y = 0.0016 * x + 0.0779$$

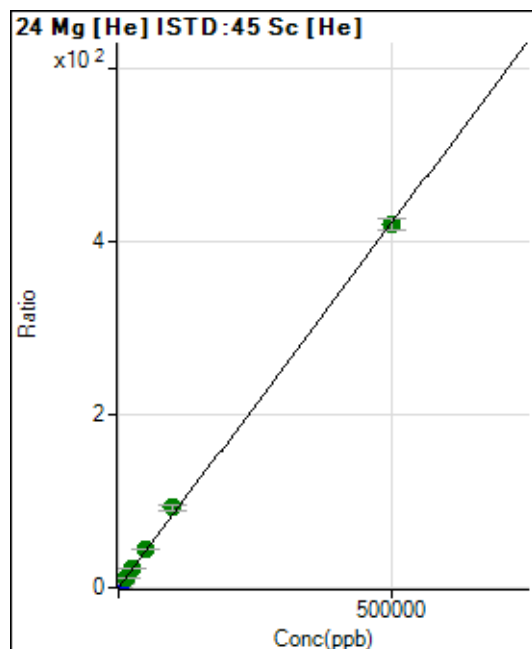
$$R = 0.9999$$

$$DL = 2.337$$

$$BEC = 48.18$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	244.45	0.0017	P	12.0
2	☐	500.000	520.703	62688.42	0.4411	P	1.9
3	☐	5000.000	5526.137	654068.32	4.6643	P	0.8
4	☐	12500.000	13161.251	1537584.33	11.1064	A	1.5
5	☐	25000.000	26413.604	2981685.11	22.2879	A	2.5
6	☐	50000.000	52201.145	5995794.49	44.0457	A	2.5
7	☐	100000.00	110270.28	12317546.89	93.0408	A	6.7
8	☐	500000.00	497633.33	59487982.58	419.8732	A	3.4

$$y = 8.4374\text{E-}004 * x + 0.0017$$

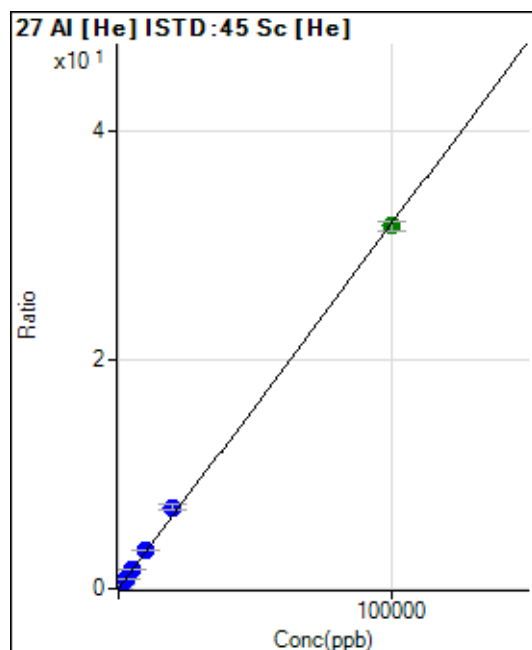
$$R = 0.9998$$

$$DL = 0.7342$$

$$BEC = 2.047$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	52.07	0.0004	P	24.5
2	☐	20.000	20.611	987.00	0.0069	P	3.2
3	☐	1000.000	1045.344	46824.14	0.3339	P	0.4
4	☐	2500.000	2638.298	116560.57	0.8422	P	1.9
5	☐	5000.000	5368.841	229237.67	1.7135	P	1.2
6	☐	10000.000	10639.820	462179.53	3.3953	P	2.7
7	☐	20000.000	22381.866	945739.77	7.1420	P	6.0
8	☐	100000.00	99437.292	4495827.51	31.7287	A	2.6

$$y = 3.1908\text{E-}004 * x + 3.6850\text{E-}004$$

$$R = 0.9997$$

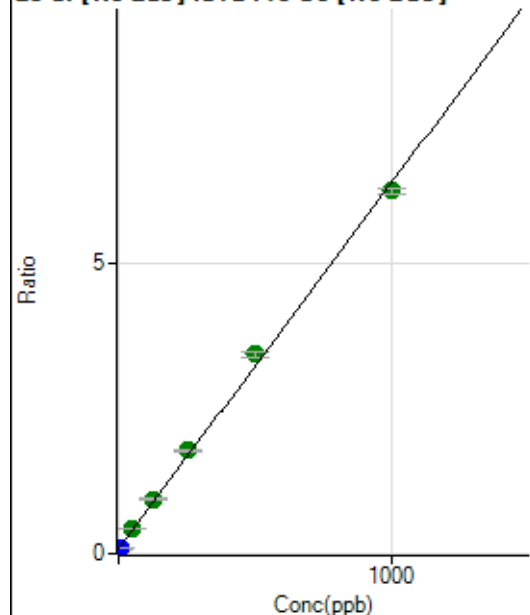
$$DL = 0.8496$$

$$BEC = 1.155$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	433181.85	0.0837	P	2.8
2	☐	10.000	2.287	519320.79	0.0981	P	3.0
3	☐	50.000	54.601	2241965.07	0.4287	A	4.9
4	☐	125.000	135.076	4988749.33	0.9373	A	3.7
5	☐	250.000	269.717	9289872.35	1.7882	A	1.7
6	☐	500.000	531.107	17586805.95	3.4402	A	3.5
7	☐	1000.000	978.105	33491901.44	6.2652	A	1.7
8	☐			974772.01	0.1863	A	0.4

$$y = 0.0063 * x + 0.0837$$

$$R = 0.9989$$

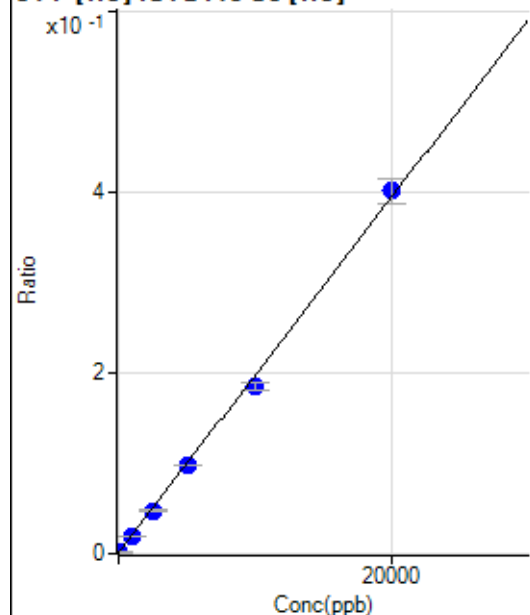
$$DL = 1.122$$

$$BEC = 13.24$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-4.750	133.34	0.0009	P	29.9
2	☐	0.000	4.750	161.12	0.0011	P	15.1
3	☐	1000.000	917.603	2675.33	0.0191	P	5.7
4	☐	2500.000	2368.825	6587.81	0.0476	P	3.3
5	☐	5000.000	4933.624	13117.34	0.0980	P	1.6
6	☐	10000.000	9351.750	25158.70	0.1849	P	4.6
7	☐	20000.000	20361.235	53123.45	0.4013	P	7.0
8	☐			161.12	0.0011	P	42.7

$$y = 1.9658E-005 * x + 0.0010$$

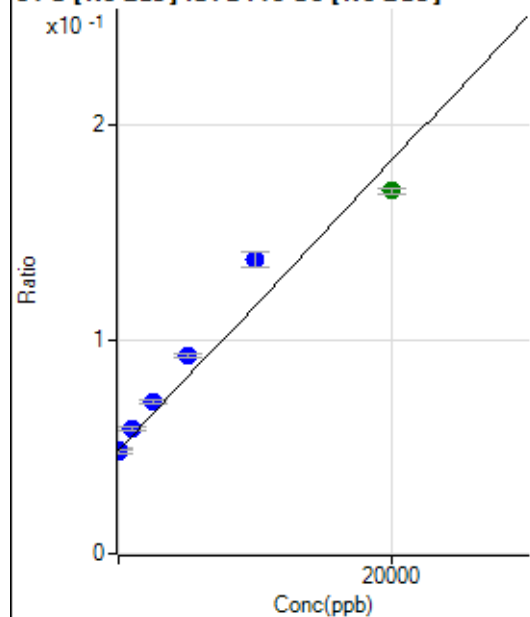
$$R = 0.9992$$

$$DL = 34.58$$

$$BEC = 52.86$$

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	91.450	253130.37	0.0489	P	2.0
2	☐	0.000	-91.450	252180.60	0.0476	P	2.5
3	☐	1000.000	1490.496	305277.90	0.0584	P	2.6
4	☐	2500.000	3379.262	378820.31	0.0712	P	2.1
5	☐	5000.000	6544.253	481059.76	0.0926	P	1.5
6	☐	10000.000	13159.020	702097.94	0.1374	P	5.1
7	☐	20000.000	17899.994	906458.64	0.1695	A	1.3
8	☐			218764.66	0.0418	P	1.9

$$y = 6.7754E-006 * x + 0.0483$$

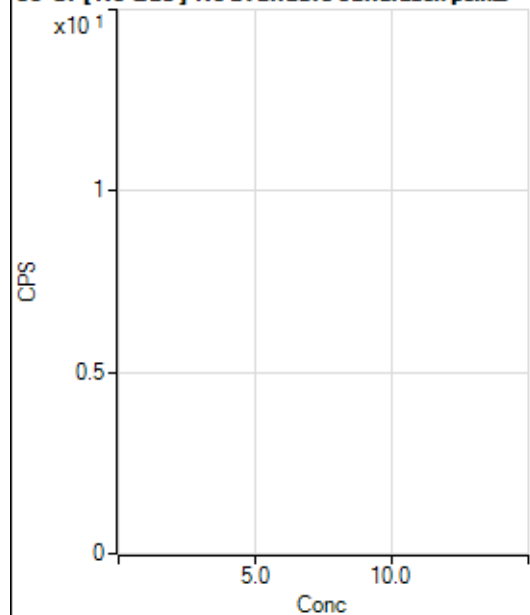
$$R = 0.9757$$

$$DL = 478.5$$

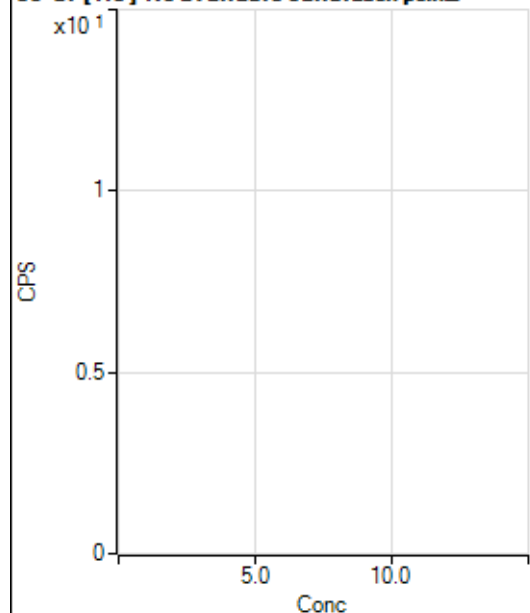
$$BEC = 7123$$

Weight: <None>

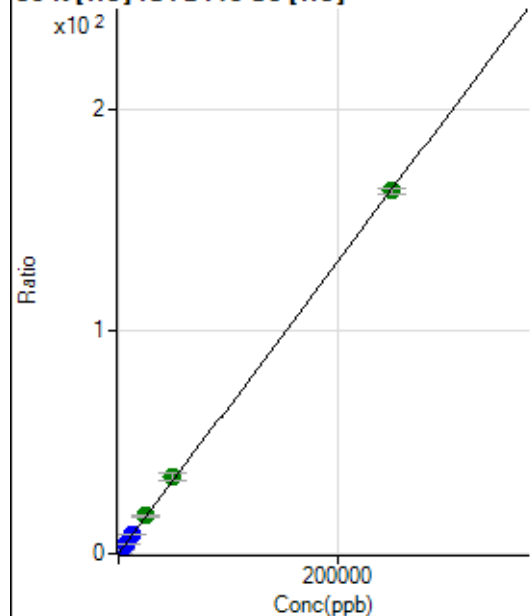
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			138549.24		P	0.5
2	☐			163200.12		P	1.0
3	☐			161552.36		P	2.5
4	☐			164376.58		P	2.4
5	☐			155577.81		P	0.6
6	☐			148394.45		P	1.2
7	☐			154507.67		P	1.6
8	☐			145513.54		P	0.5

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			930.61		P	1.4
2	☐			1083.40		P	6.7
3	☐			1077.85		P	9.5
4	☐			1005.62		P	3.7
5	☐			1116.74		P	1.3
6	☐			902.83		P	11.0
7	☐			941.73		P	17.7
8	☐			1033.40		P	2.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13039.58	0.0922	P	1.8
2	☐	500.000	511.369	60692.23	0.4270	P	1.0
3	☐	2500.000	2666.101	257697.95	1.8377	P	1.2
4	☐	6250.000	6627.032	613266.18	4.4309	P	1.9
5	☐	12500.000	13492.016	1194246.57	8.9253	P	1.1
6	☐	25000.000	25689.890	2302075.55	16.9111	A	2.8
7	☐	50000.000	52836.798	4589572.63	34.6839	A	8.0
8	☐	250000.00	249302.94	23141772.39	163.3083	A	1.9

$$y = 6.5469E-004 * x + 0.0922$$

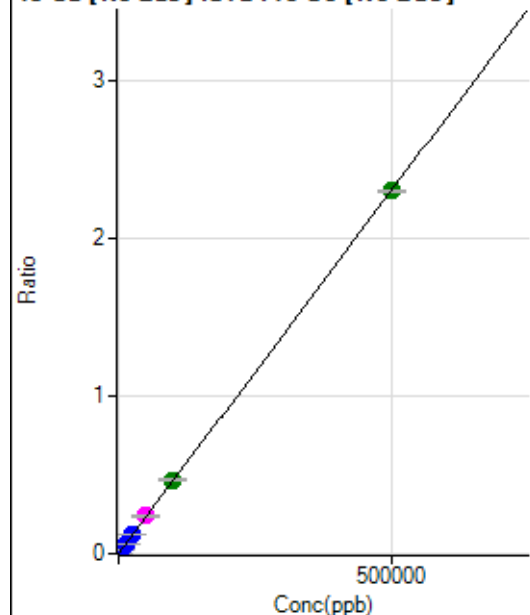
$$R = 0.9999$$

$$DL = 7.529$$

$$BEC = 140.8$$

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	185.40	0.0000	P	11.6
2	☐	500.000	516.671	12777.85	0.0024	P	3.6
3	☐	5000.000	5398.536	130179.81	0.0249	P	3.2
4	☐	12500.000	13204.241	323728.97	0.0608	P	3.5
5	☐	25000.000	26661.541	637829.58	0.1228	P	1.1
6	☐	50000.000	51699.464	1214550.33	0.2380	M	8.6
7	☐	100000.00	101874.02	2507590.75	0.4690	A	2.5
8	☐	500000.00	499350.56	12026822.81	2.2989	A	0.6

$$y = 4.6036\text{E-}006 * x + 3.5837\text{E-}005$$

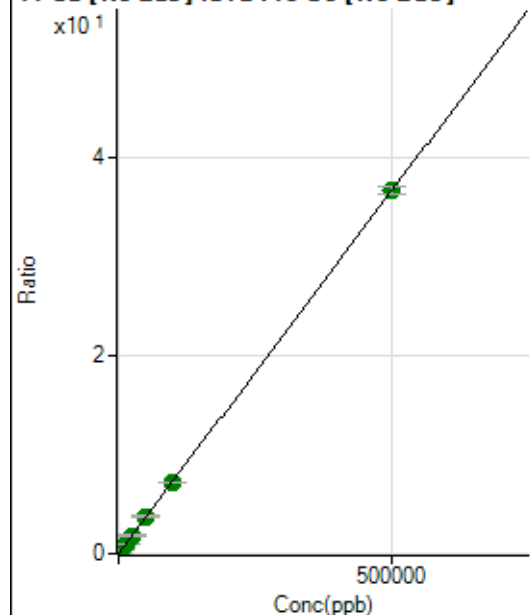
$$R = 1.0000$$

$$DL = 2.713$$

$$BEC = 7.784$$

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	6165.38	0.0012	P	0.6
2	☐	500.000	513.828	205711.87	0.0389	P	2.0
3	☐	5000.000	5118.060	1968848.40	0.3764	A	3.1
4	☐	12500.000	12411.428	4849537.92	0.9111	A	3.2
5	☐	25000.000	24934.774	9502752.81	1.8292	A	2.2
6	☐	50000.000	50508.223	18925924.89	3.7040	A	4.9
7	☐	100000.00	98640.258	38663191.87	7.2326	A	0.6
8	☐	500000.00	500225.40	191826715.9	36.6731	A	2.1

$$y = 7.3311\text{E-}005 * x + 0.0012$$

$$R = 1.0000$$

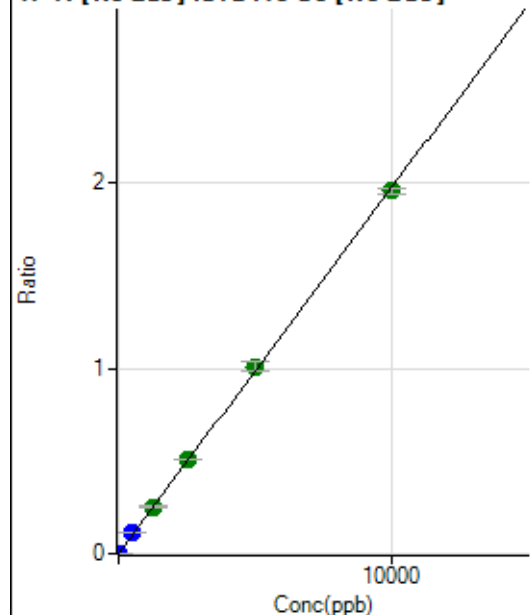
$$DL = 0.3043$$

$$BEC = 16.24$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	152.78	0.0000	P	23.2
2	☐	5.000	5.571	5976.40	0.0011	P	2.3
3	☐	500.000	563.070	581041.05	0.1111	P	2.6
4	☐	1250.000	1283.726	1347952.26	0.2532	A	3.5
5	☐	2500.000	2582.982	2646546.52	0.5094	A	0.4
6	☐	5000.000	5112.632	5151309.71	1.0083	A	5.2
7	☐	10000.000	9915.569	10452981.74	1.9555	A	1.5
8	☐			2000.21	0.0004	P	1.1

$$y = 1.9722\text{E-}004 * x + 2.9551\text{E-}005$$

R = 0.9999

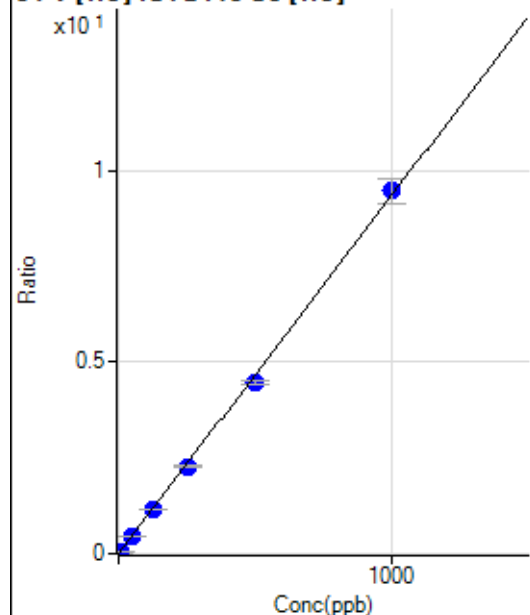
DL = 0.1043

BEC = 0.1498

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4.44	0.0000	P	115.
2	☐	5.000	4.714	6262.54	0.0441	P	1.5
3	☐	50.000	48.243	63178.82	0.4506	P	1.4
4	☐	125.000	121.436	156978.50	1.1341	P	0.8
5	☐	250.000	243.708	304506.15	2.2759	P	0.9
6	☐	500.000	477.641	607243.46	4.4606	P	1.7
7	☐	1000.000	1013.288	1252689.15	9.4628	P	6.9
8	☐			214.45	0.0015	P	11.0

$$y = 0.0093 * x + 3.1541\text{E-}005$$

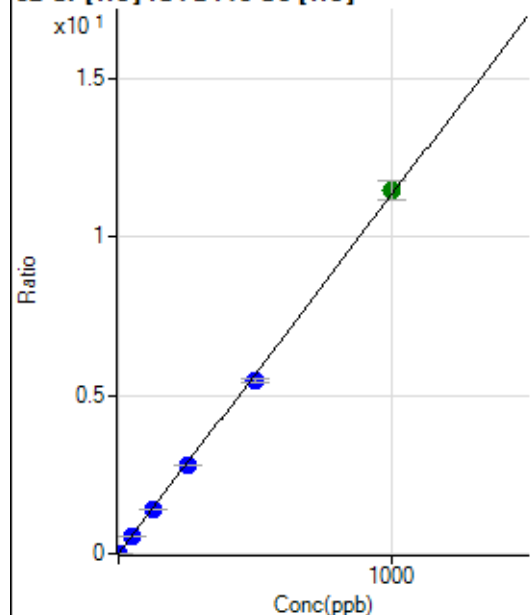
R = 0.9996

DL = 0.01172

BEC = 0.003377

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	415.57	0.0029	P	8.4
2	☐	2.000	1.922	3512.69	0.0247	P	2.4
3	☐	50.000	49.223	78587.03	0.5604	P	0.9
4	☐	125.000	122.031	191695.84	1.3850	P	1.6
5	☐	250.000	246.932	374565.05	2.7996	P	1.3
6	☐	500.000	480.855	741729.04	5.4490	P	2.6
7	☐	1000.000	1010.750	1516578.10	11.4505	A	5.5
8	☐			13643.27	0.0963	P	0.5

$$y = 0.0113 * x + 0.0029$$

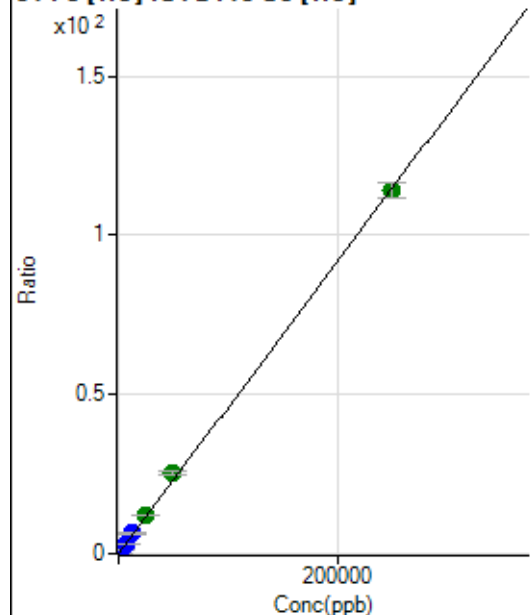
$$R = 0.9997$$

$$DL = 0.06576$$

$$BEC = 0.2594$$

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	314.83	0.0022	P	9.8
2	☐	50.000	55.303	3915.42	0.0275	P	3.1
3	☐	2500.000	2735.342	175929.66	1.2546	P	1.1
4	☐	6250.000	6813.726	432102.18	3.1219	P	1.2
5	☐	12500.000	13876.708	850300.74	6.3556	P	1.4
6	☐	25000.000	26543.575	1654541.47	12.1552	A	2.8
7	☐	50000.000	54796.983	3323720.30	25.0909	A	5.0
8	☐	250000.00	248800.96	16138650.59	113.9153	A	4.1

$$y = 4.5785E-004 * x + 0.0022$$

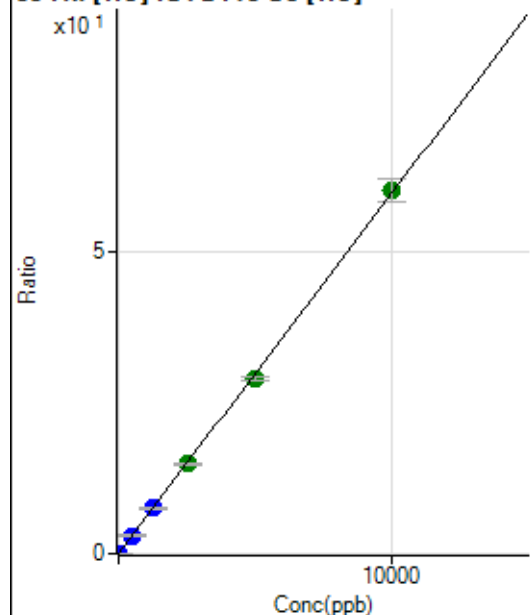
$$R = 0.9998$$

$$DL = 1.43$$

$$BEC = 4.858$$

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	27.78	0.0002	P	43.2
2	☐	1.000	1.051	917.82	0.0065	P	2.1
3	☐	500.000	504.523	421294.63	3.0044	P	1.1
4	☐	1250.000	1261.101	1039381.08	7.5095	P	1.5
5	☐	2500.000	2503.488	1994318.04	14.9073	A	1.7
6	☐	5000.000	4850.182	3931447.48	28.8808	A	2.7
7	☐	10000.000	10072.423	7940893.29	59.9769	A	6.5
8	☐			4929.78	0.0348	P	4.3

$$y = 0.0060 * x + 1.9724E-004$$

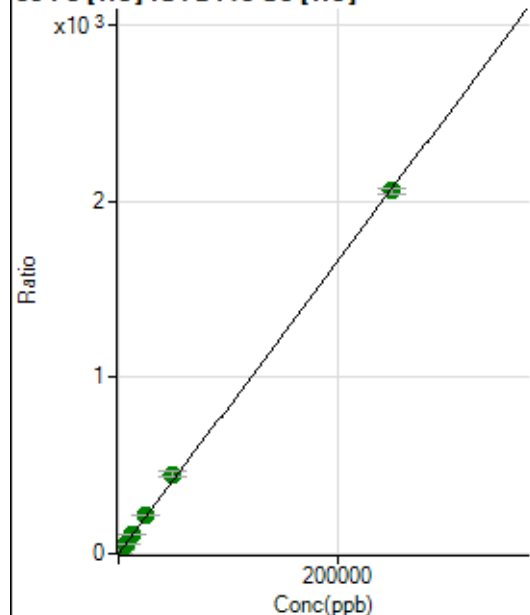
$$R = 0.9998$$

$$DL = 0.04296$$

$$BEC = 0.03312$$

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	2570.65	0.0182	P	3.4
2	☐	50.000	53.252	65229.94	0.4589	P	1.2
3	☐	2500.000	2664.451	3094844.34	22.0704	A	1.9
4	☐	6250.000	6665.300	7637515.62	55.1834	A	2.0
5	☐	12500.000	13336.618	14769737.94	110.3984	A	1.5
6	☐	25000.000	25976.090	29274571.49	215.0086	A	0.9
7	☐	50000.000	54651.396	59851932.35	452.3391	A	8.2
8	☐	250000.00	248918.25	291945454.6	2.060184	A	1.4

$$y = 0.0083 * x + 0.0182$$

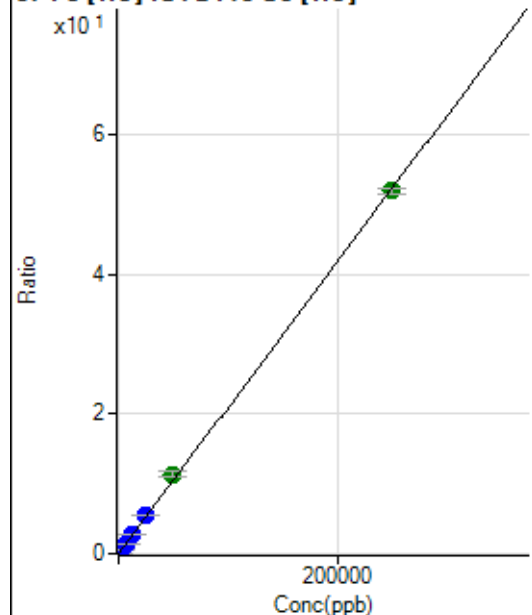
$$R = 0.9998$$

$$DL = 0.2219$$

$$BEC = 2.196$$

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	125.93	0.0009	P	18.8
2	☐	50.000	56.040	1790.89	0.0126	P	2.8
3	☐	2500.000	2684.773	78776.21	0.5618	P	1.0
4	☐	6250.000	6698.275	193790.50	1.4002	P	2.4
5	☐	12500.000	13638.966	381310.57	2.8502	P	1.6
6	☐	25000.000	26302.314	748092.12	5.4957	P	2.4
7	☐	50000.000	54436.628	1505460.57	11.3732	A	7.3
8	☐	250000.00	248912.43	7369706.13	52.0010	A	1.5

$$y = 2.0891\text{E-}004 * x + 8.9186\text{E-}004$$

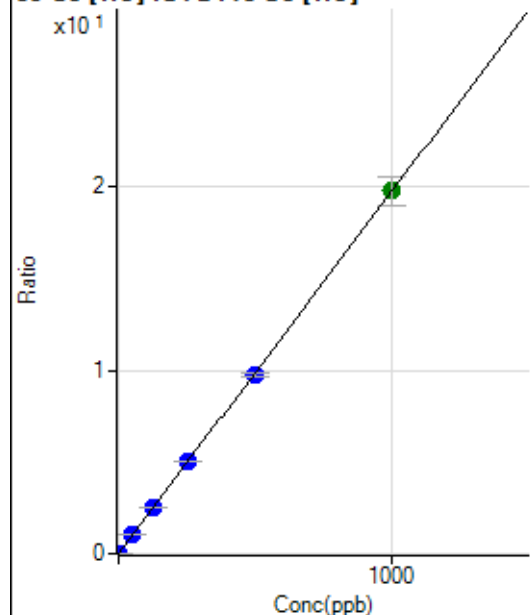
$$R = 0.9998$$

$$DL = 2.413$$

$$BEC = 4.269$$

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	37.78	0.0003	P	18.3
2	☐	1.000	0.993	2826.98	0.0199	P	7.0
3	☐	50.000	51.621	143051.19	1.0201	P	0.8
4	☐	125.000	126.868	346951.68	2.5067	P	1.5
5	☐	250.000	254.411	672515.62	5.0266	P	1.1
6	☐	500.000	492.923	1325756.66	9.7387	P	1.9
7	☐	1000.000	1002.121	2620164.86	19.7988	A	7.8
8	☐			4805.31	0.0339	P	3.4

$$y = 0.0198 * x + 2.6713\text{E-}004$$

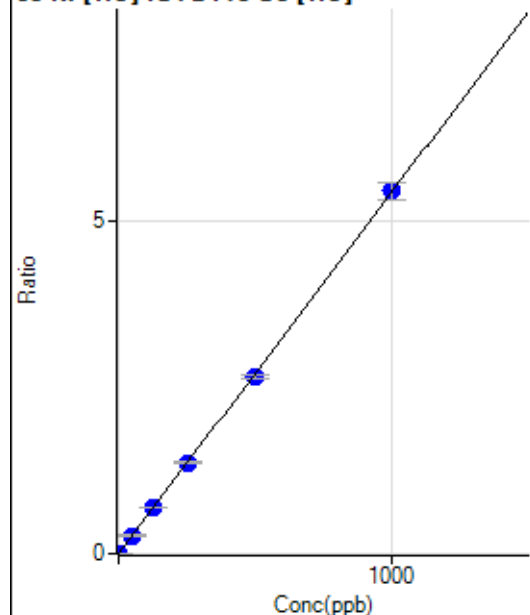
$$R = 1.0000$$

$$DL = 0.007433$$

$$BEC = 0.01352$$

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	24.44	0.0002	P	51.4
2	☐	1.000	0.941	750.03	0.0053	P	16.3
3	☐	50.000	50.546	38475.38	0.2744	P	1.4
4	☐	125.000	127.003	95392.53	0.6892	P	1.4
5	☐	250.000	252.646	183407.74	1.3708	P	0.8
6	☐	500.000	488.117	360491.75	2.6482	P	2.3
7	☐	1000.000	1005.003	722252.43	5.4523	P	5.0
8	☐			5073.18	0.0358	P	2.8

$$y = 0.0054 * x + 1.7245E-004$$

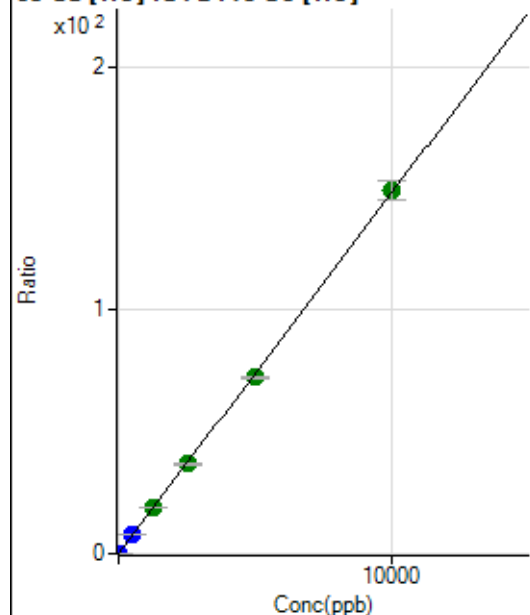
$$R = 0.9999$$

$$DL = 0.04901$$

$$BEC = 0.03179$$

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	365.57	0.0026	P	15.0
2	☐	2.000	2.143	4880.88	0.0343	P	3.6
3	☐	500.000	530.664	1103101.28	7.8666	P	1.1
4	☐	1250.000	1283.131	2631854.68	19.0176	A	2.7
5	☐	2500.000	2481.021	4919557.19	36.7694	A	2.5
6	☐	5000.000	4891.130	9868612.29	72.4853	A	1.3
7	☐	10000.000	10053.505	19734305.26	148.9876	A	5.3
8	☐			5453.33	0.0385	P	4.9

$$y = 0.0148 * x + 0.0026$$

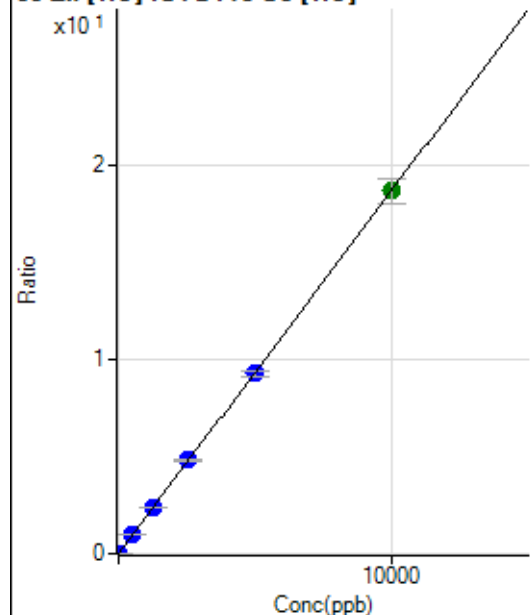
$$R = 0.9999$$

$$DL = 0.07886$$

$$BEC = 0.1747$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	78.89	0.0006	P	29.9
2	☐	2.000	2.145	648.91	0.0046	P	2.5
3	☐	500.000	520.385	136405.12	0.9727	P	0.5
4	☐	1250.000	1282.684	331722.70	2.3969	P	2.1
5	☐	2500.000	2571.533	642757.02	4.8047	P	2.2
6	☐	5000.000	4962.766	1262087.85	9.2720	P	2.8
7	☐	10000.000	9995.629	2472063.37	18.6745	A	6.9
8	☐			2921.45	0.0206	P	1.0

$$y = 0.0019 * x + 5.5794E-004$$

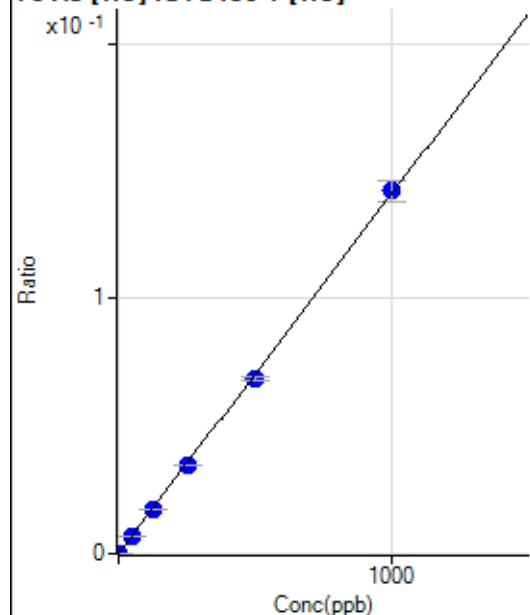
$$R = 1.0000$$

$$DL = 0.2679$$

$$BEC = 0.2986$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4.67	0.0000	P	32.4
2	☐	1.000	0.961	166.69	0.0001	P	5.1
3	☐	50.000	48.704	8103.81	0.0069	P	1.2
4	☐	125.000	123.681	20251.85	0.0174	P	2.3
5	☐	250.000	244.481	38675.85	0.0345	P	0.4
6	☐	500.000	485.964	76410.26	0.0685	P	1.5
7	☐	1000.000	1008.628	156532.40	0.1421	P	6.2
8	☐			52.01	0.0000	P	10.7

$$y = 1.4091E-004 * x + 3.8645E-006$$

$$R = 0.9998$$

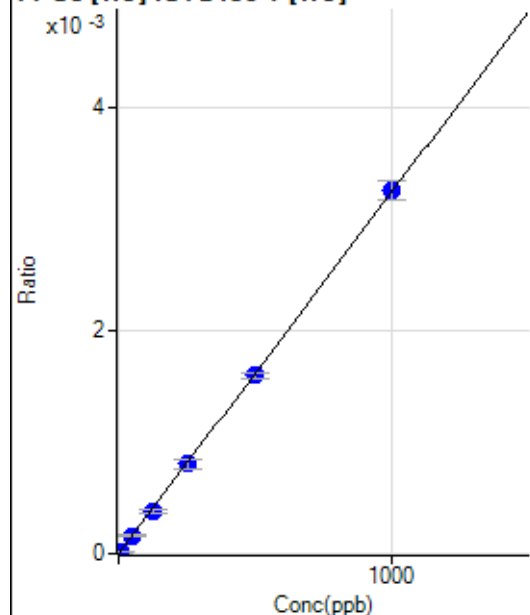
$$DL = 0.02668$$

$$BEC = 0.02743$$

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	4.572	18.89	0.0000	P	50.6
3	☐	50.000	48.797	187.78	0.0002	P	13.9
4	☐	125.000	116.814	441.12	0.0004	P	6.0
5	☐	250.000	247.538	902.26	0.0008	P	9.2
6	☐	500.000	493.880	1787.91	0.0016	P	3.0
7	☐	1000.000	1004.761	3591.60	0.0033	P	5.3
8	☐			0.00	0.0000	P	

$$y = 3.2429\text{E-}006 * x + 9.2531\text{E-}007$$

R = 0.9999

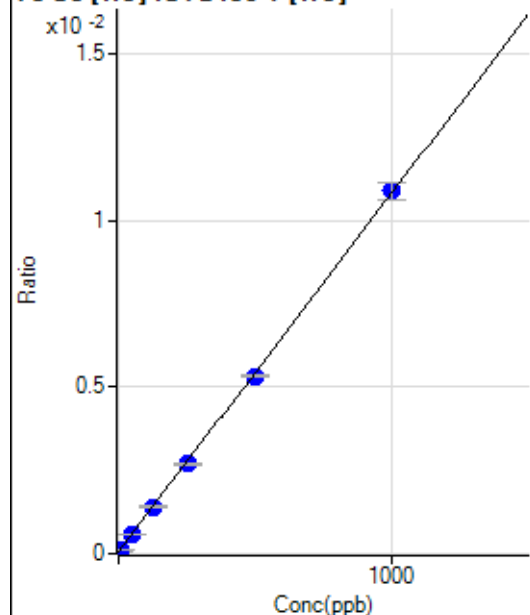
DL = 1.483

BEC = 0.2853

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	76.34	0.0001	P	6.3
2	☐	5.000	6.633	161.35	0.0001	P	2.4
3	☐	50.000	50.115	711.42	0.0006	P	1.2
4	☐	125.000	125.232	1639.93	0.0014	P	1.4
5	☐	250.000	244.168	3022.30	0.0027	P	2.8
6	☐	500.000	488.969	5944.53	0.0053	P	1.3
7	☐	1000.000	1006.930	12017.00	0.0109	P	4.6
8	☐			68.01	0.0001	P	2.8

$$y = 1.0766\text{E-}005 * x + 6.3267\text{E-}005$$

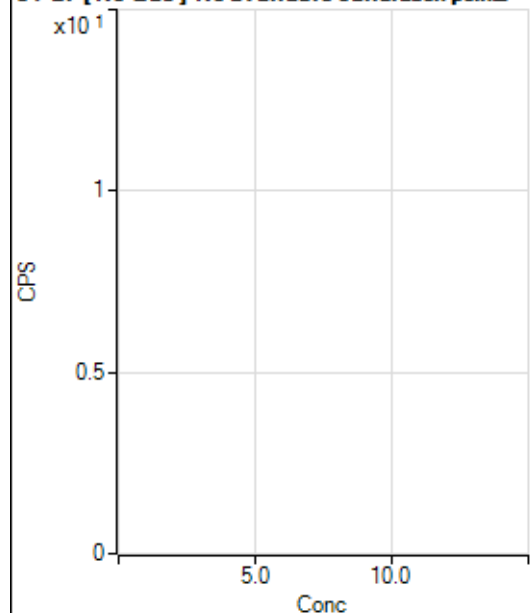
R = 0.9999

DL = 1.106

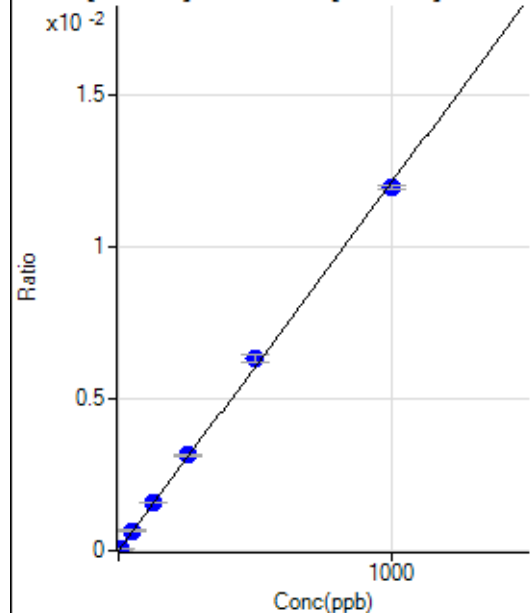
BEC = 5.876

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41056.56		P	3.9
2	☐			39195.84		P	5.7
3	☐			39035.05		P	2.4
4	☐			38701.09		P	7.7
5	☐			35983.75		P	1.7
6	☐			34341.51		P	1.8
7	☐			35542.42		P	2.8
8	☐			38931.50		P	1.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	33.75	0.0000	P	229.
2	☐	5.000	3.890	630.14	0.0000	P	22.9
3	☐	50.000	53.520	7956.67	0.0007	P	5.3
4	☐	125.000	131.825	19965.29	0.0016	P	1.8
5	☐	250.000	258.639	38181.14	0.0031	P	2.4
6	☐	500.000	522.008	74913.68	0.0063	P	3.7
7	☐	1000.000	985.813	151702.27	0.0120	P	1.0
8	☐			133.36	0.0000	P	129.

$$y = 1.2131E-005 * x + 2.5997E-006$$

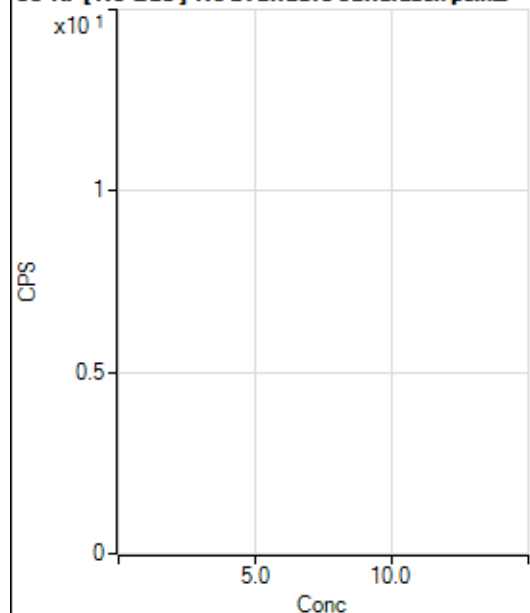
$$R = 0.9996$$

$$DL = 1.476$$

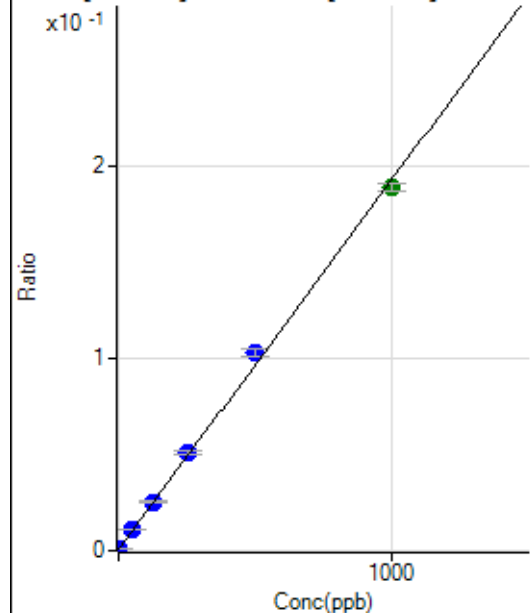
$$BEC = 0.2143$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4376.82		P	1.4
2	☐			4438.91		P	2.6
3	☐			4390.15		P	1.6
4	☐			4334.31		P	1.2
5	☐			4374.73		P	1.7
6	☐			4206.78		P	1.4
7	☐			4273.04		P	1.6
8	☐			4364.73		P	1.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6790.69	0.0005	P	4.5
2	☐	1.000	1.205	9653.56	0.0008	P	0.3
3	☐	50.000	54.488	134074.00	0.0110	P	4.9
4	☐	125.000	129.577	316436.91	0.0254	P	1.1
5	☐	250.000	261.478	616221.43	0.0507	P	3.0
6	☐	500.000	534.688	1219107.44	0.1031	P	3.6
7	☐	1000.000	978.990	2388178.01	0.1883	A	2.2
8	☐			23306.17	0.0019	P	1.8

$$y = 1.9181\text{E-}004 * x + 5.3172\text{E-}004$$

$$R = 0.9990$$

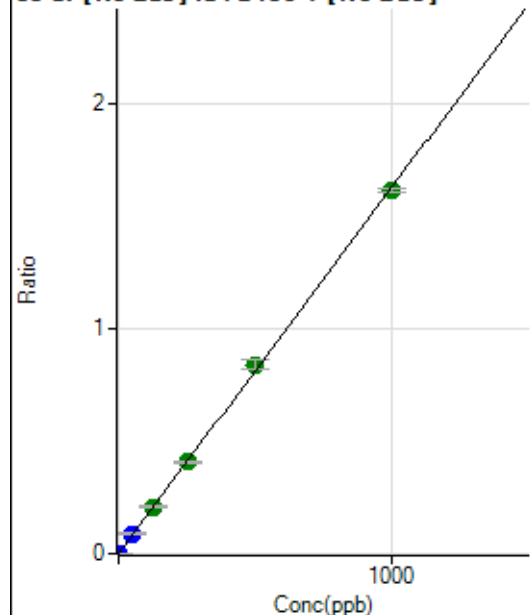
$$DL = 0.3757$$

$$BEC = 2.772$$

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	108.34	0.0000	P	16.3
2	☐	1.000	1.067	22037.45	0.0017	P	1.8
3	☐	50.000	54.159	1074595.85	0.0088	P	4.1
4	☐	125.000	128.593	2604728.75	0.0209	A	0.8
5	☐	250.000	250.437	4948697.59	0.4069	A	1.6
6	☐	500.000	515.315	9898046.92	0.8373	A	5.1
7	☐	1000.000	991.576	20433424.76	1.6112	A	1.2
8	☐			145510.53	0.0118	P	1.7

$$y = 0.0016 * x + 8.4889E-006$$

$$R = 0.9998$$

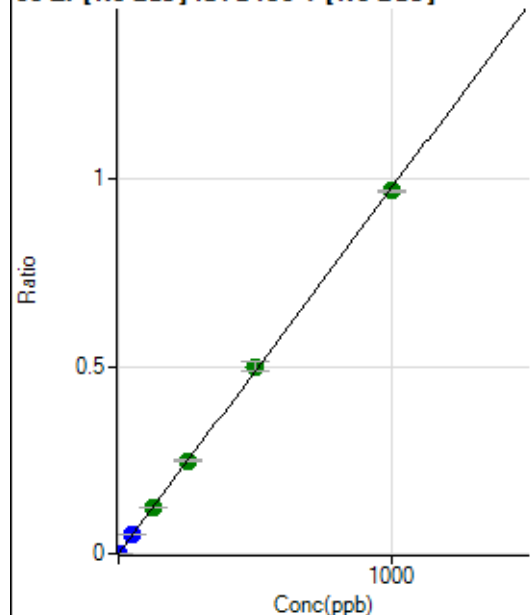
$$DL = 0.00255$$

$$BEC = 0.005224$$

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	497.25	0.0000	P	12.9
2	☐	1.000	1.002	12878.50	0.0010	P	2.6
3	☐	50.000	54.181	646693.08	0.0530	P	3.6
4	☐	125.000	126.440	1539890.97	0.1235	A	2.0
5	☐	250.000	253.795	3014518.49	0.2479	A	2.5
6	☐	500.000	512.342	5916163.15	0.5005	A	4.9
7	☐	1000.000	992.491	12294432.65	0.9694	A	0.8
8	☐			6045.91	0.0005	P	1.9

$$y = 9.7672E-004 * x + 3.8936E-005$$

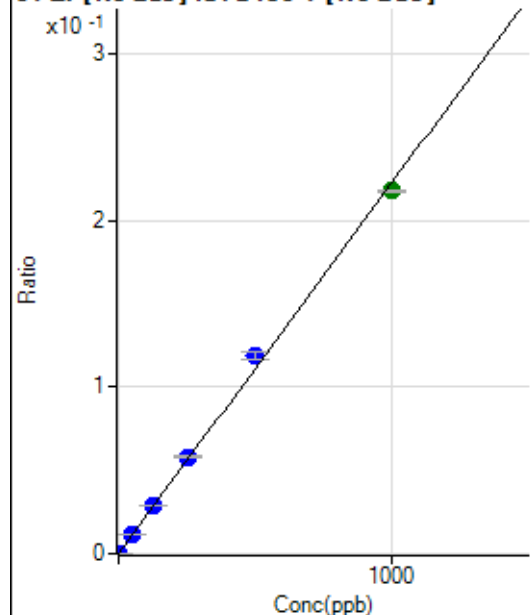
$$R = 0.9999$$

$$DL = 0.01537$$

$$BEC = 0.03986$$

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	111.12	0.0000	P	19.9
2	☐	1.000	1.015	2967.06	0.0002	P	1.3
3	☐	50.000	52.774	143408.99	0.0117	P	4.5
4	☐	125.000	129.698	359683.19	0.0289	P	1.2
5	☐	250.000	261.657	707779.73	0.0582	P	2.0
6	☐	500.000	533.722	1403603.29	0.1187	P	4.1
7	☐	1000.000	979.499	2762992.55	0.2179	A	0.5
8	☐			1291.76	0.0001	P	11.8

$$y = 2.2241\text{E-}004 * x + 8.7094\text{E-}006$$

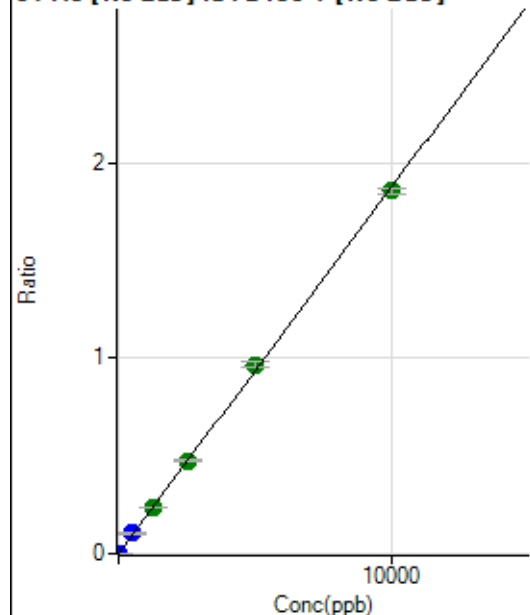
$$R = 0.9991$$

$$DL = 0.02334$$

$$BEC = 0.03916$$

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	150.01	0.0000	P	28.4
2	☐	5.000	6.295	15069.59	0.0012	P	1.3
3	☐	500.000	559.793	1280743.41	0.1049	P	4.0
4	☐	1250.000	1269.550	2965353.80	0.2379	A	0.6
5	☐	2500.000	2542.757	5792320.74	0.4764	A	2.8
6	☐	5000.000	5168.186	11450853.12	0.9683	A	3.5
7	☐	10000.000	9899.784	23523706.77	1.8548	A	1.6
8	☐			8522.26	0.0007	P	0.8

$$y = 1.8736\text{E-}004 * x + 1.1723\text{E-}005$$

$$R = 0.9998$$

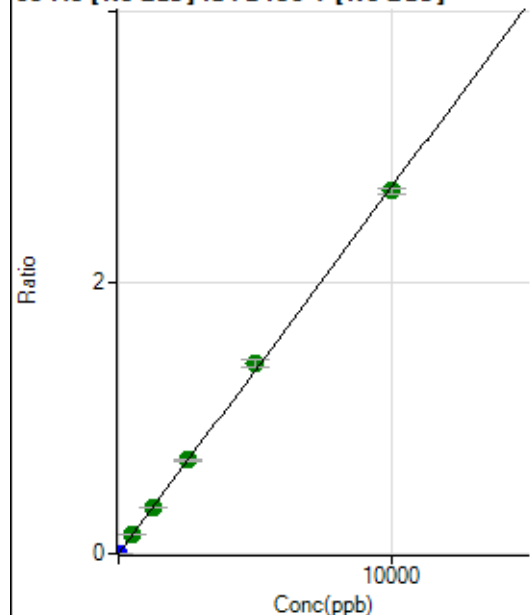
$$DL = 0.05337$$

$$BEC = 0.06257$$

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	5.56	0.0000	P	173.
2	☐	5.000	5.417	18548.98	0.0015	P	3.3
3	☐	500.000	527.303	1742579.94	0.1427	A	3.8
4	☐	1250.000	1251.939	4223717.11	0.3388	A	0.7
5	☐	2500.000	2556.250	8412141.16	0.6918	A	2.2
6	☐	5000.000	5174.671	16557845.16	1.4004	A	4.1
7	☐	10000.000	9896.995	33967146.59	2.6784	A	1.6
8	☐			9725.91	0.0008	P	3.7

$$y = 2.7063\text{E-}004 * x + 4.3098\text{E-}007$$

$$R = 0.9998$$

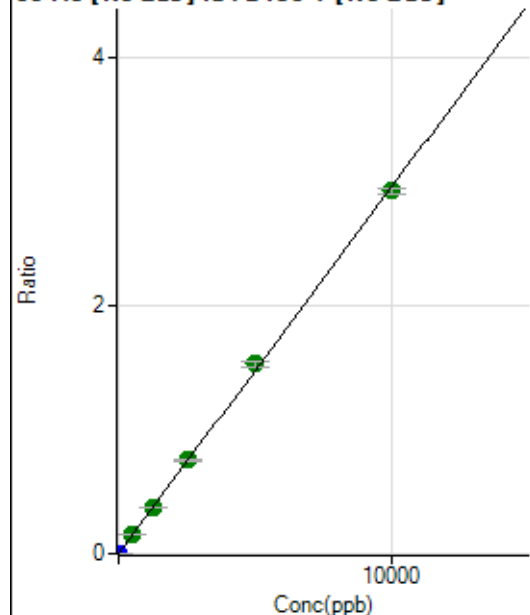
$$DL = 0.008275$$

$$BEC = 0.001593$$

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	247.23	0.0000	P	3.7
2	☐	5.000	5.571	21052.65	0.0017	P	1.8
3	☐	500.000	528.440	1905270.57	0.1560	A	4.4
4	☐	1250.000	1253.023	4612081.22	0.3700	A	0.4
5	☐	2500.000	2549.726	9154695.87	0.7528	A	2.3
6	☐	5000.000	5172.265	18061797.97	1.5272	A	2.9
7	☐	10000.000	9899.636	37067054.65	2.9230	A	1.9
8	☐			30852.07	0.0025	P	1.5

$$y = 2.9526\text{E-}004 * x + 1.9355\text{E-}005$$

$$R = 0.9998$$

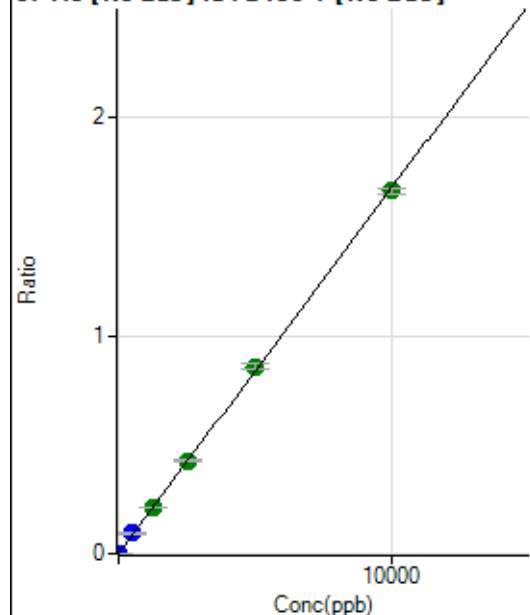
$$DL = 0.00737$$

$$BEC = 0.06555$$

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	11.11	0.0000	P	43.0
2	☐	5.000	5.407	11491.18	0.0009	P	3.5
3	☐	500.000	555.808	1139018.13	0.0933	P	4.1
4	☐	1250.000	1278.386	2674645.48	0.2146	A	1.2
5	☐	2500.000	2549.848	5202022.12	0.4280	A	3.8
6	☐	5000.000	5115.779	10154279.74	0.8586	A	3.6
7	☐	10000.000	9923.310	21120781.72	1.6655	A	1.7
8	☐			6012.57	0.0005	P	7.3

$$y = 1.6784\text{E-}004 * x + 8.6908\text{E-}007$$

$$R = 0.9999$$

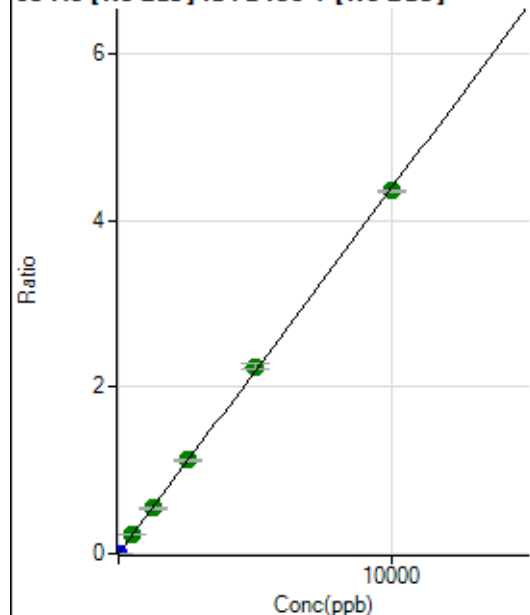
$$DL = 0.006682$$

$$BEC = 0.005178$$

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	61.11	0.0000	P	74.5
2	☐	5.000	5.401	30072.10	0.0024	P	2.7
3	☐	500.000	518.848	2782895.92	0.2279	A	4.0
4	☐	1250.000	1240.656	6792557.10	0.5450	A	1.4
5	☐	2500.000	2554.795	13641416.10	1.1222	A	3.5
6	☐	5000.000	5119.456	26595344.34	2.2487	A	2.9
7	☐	10000.000	9926.799	55298588.04	4.3603	A	0.7
8	☐			13657.14	0.0011	P	1.2

$$y = 4.3924\text{E-}004 * x + 4.7586\text{E-}006$$

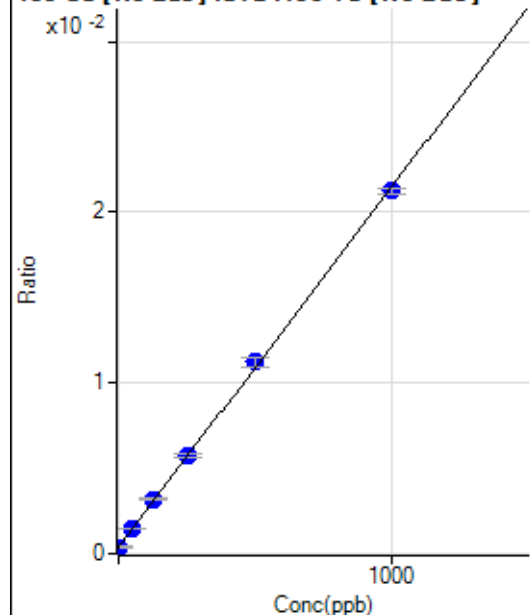
$$R = 0.9999$$

$$DL = 0.02421$$

$$BEC = 0.01083$$

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	3406.07	0.0004	P	2.8
2	☐	1.000	0.945	3536.66	0.0004	P	6.5
3	☐	50.000	54.173	13865.74	0.0015	P	1.1
4	☐	125.000	133.409	29415.46	0.0032	P	2.1
5	☐	250.000	255.907	53831.28	0.0058	P	3.4
6	☐	500.000	515.271	102848.35	0.0112	P	4.7
7	☐	1000.000	989.628	201483.12	0.0212	P	1.5
8	☐			3567.23	0.0004	P	1.8

$$y = 2.1099\text{E-}005 * x + 3.6562\text{E-}004$$

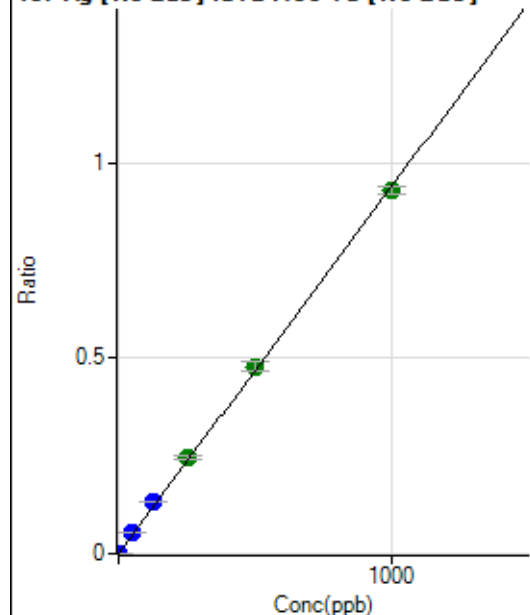
R = 0.9998

DL = 1.465

BEC = 17.33

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	94.45	0.0000	P	24.0
2	☐	1.000	1.128	9792.65	0.0011	P	2.7
3	☐	50.000	57.807	498436.63	0.0543	P	2.4
4	☐	125.000	142.531	1237533.40	0.1338	P	2.0
5	☐	250.000	263.864	2312380.00	0.2477	A	4.0
6	☐	500.000	510.803	4387659.21	0.4794	A	5.3
7	☐	1000.000	988.551	8799193.77	0.9279	A	2.2
8	☐			4741.56	0.0005	P	81.0

$$y = 9.3860\text{E-}004 * x + 1.0171\text{E-}005$$

R = 0.9997

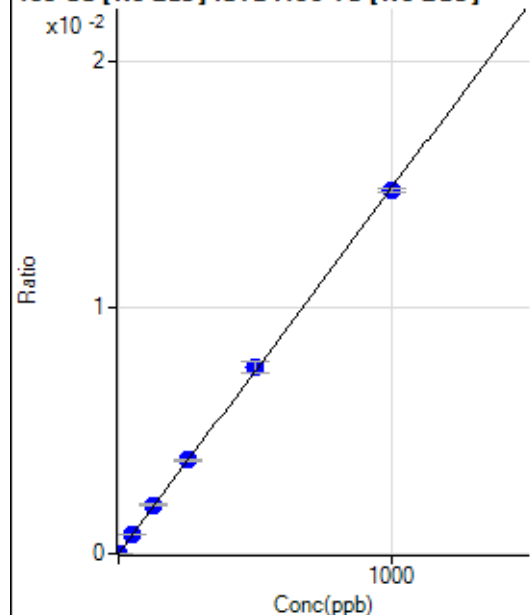
DL = 0.00781

BEC = 0.01084

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.61	0.0000	P	28.6
2	☐	1.000	1.034	163.89	0.0000	P	13.2
3	☐	50.000	53.598	7320.08	0.0008	P	4.4
4	☐	125.000	133.751	18367.91	0.0020	P	3.6
5	☐	250.000	256.577	35559.85	0.0038	P	2.1
6	☐	500.000	509.152	69101.41	0.0076	P	5.7
7	☐	1000.000	992.506	139612.80	0.0147	P	1.1
8	☐			84.73	0.0000	P	4.8

$$y = 1.4829\text{E-}005 * x + 2.5446\text{E-}006$$

$$R = 0.9999$$

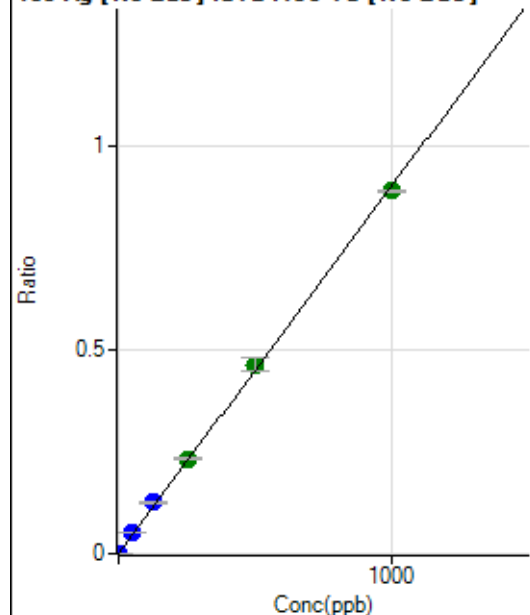
$$DL = 0.1472$$

$$BEC = 0.1716$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61.11	0.0000	P	20.6
2	☐	1.000	1.107	9192.28	0.0010	P	1.3
3	☐	50.000	56.724	468591.45	0.0511	P	5.5
4	☐	125.000	139.526	1161481.71	0.1256	P	1.7
5	☐	250.000	259.103	2177199.48	0.2332	A	3.5
6	☐	500.000	515.424	4242979.00	0.4638	A	6.4
7	☐	1000.000	987.860	8431387.95	0.8890	A	0.6
8	☐			2494.73	0.0003	P	9.8

$$y = 8.9990\text{E-}004 * x + 6.5592\text{E-}006$$

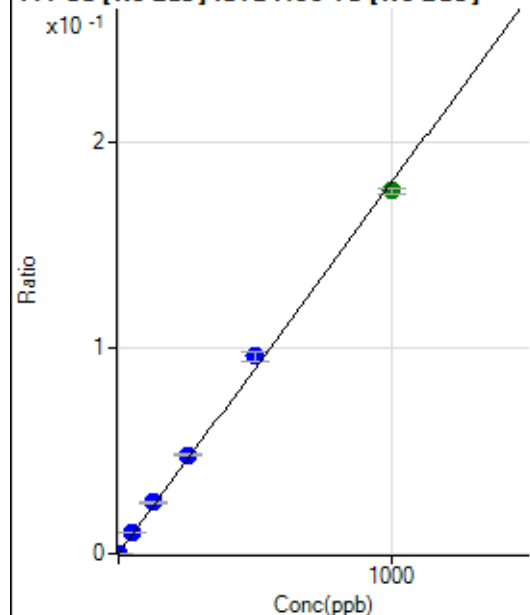
$$R = 0.9997$$

$$DL = 0.004496$$

$$BEC = 0.007289$$

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	681.35	0.0001	P	4.5
2	☐	1.000	1.068	2431.64	0.0003	P	1.0
3	☐	50.000	55.850	92896.06	0.0101	P	4.8
4	☐	125.000	138.167	230553.51	0.0249	P	1.9
5	☐	250.000	266.399	448201.34	0.0480	P	2.8
6	☐	500.000	531.839	876293.62	0.0957	P	5.0
7	☐	1000.000	978.042	1669190.66	0.1760	A	1.3
8	☐			1126.37	0.0001	P	7.8

$$y = 1.7988\text{E-}004 * x + 7.3122\text{E-}005$$

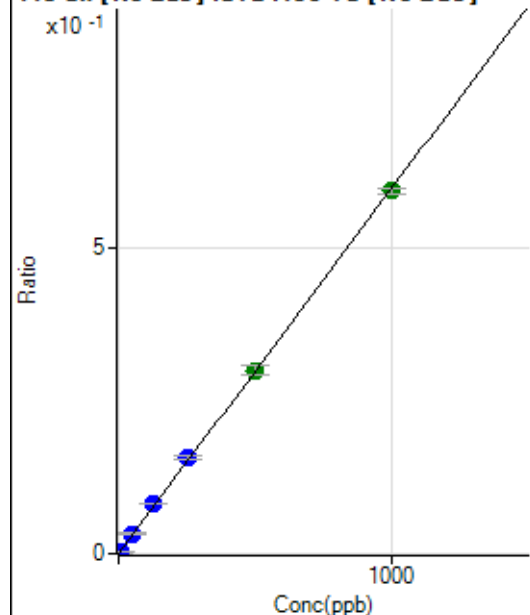
$$R = 0.9990$$

$$DL = 0.05486$$

$$BEC = 0.4065$$

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	594.47	0.0001	P	16.8
2	☐	5.000	5.459	30448.45	0.0033	P	3.4
3	☐	50.000	54.312	298315.21	0.0325	P	3.3
4	☐	125.000	135.650	749693.91	0.0810	P	0.3
5	☐	250.000	263.235	1468108.85	0.1572	P	2.7
6	☐	500.000	502.785	2747676.00	0.3002	A	4.7
7	☐	1000.000	993.750	5626590.14	0.5933	A	1.6
8	☐			4734.29	0.0005	P	2.6

$$y = 5.9696\text{E-}004 * x + 6.3784\text{E-}005$$

$$R = 0.9999$$

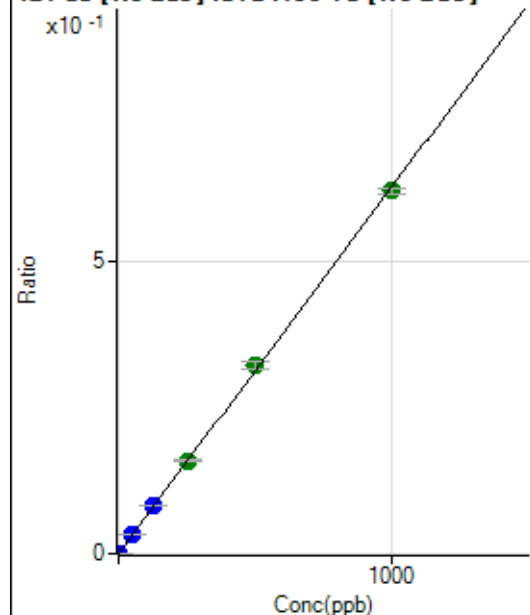
$$DL = 0.05375$$

$$BEC = 0.1068$$

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	27.78	0.0000	P	75.5
2	☐	2.000	2.153	12378.17	0.0014	P	4.1
3	☐	50.000	53.569	307886.11	0.0335	P	3.3
4	☐	125.000	132.763	768603.14	0.0831	P	1.1
5	☐	250.000	254.375	1486347.79	0.1592	A	3.9
6	☐	500.000	514.817	2949023.83	0.3222	A	4.6
7	☐	1000.000	990.349	5878219.06	0.6198	A	1.3
8	☐			4373.03	0.0005	P	8.3

$$y = 6.2582\text{E-}004 * x + 2.9961\text{E-}006$$

$$R = 0.9998$$

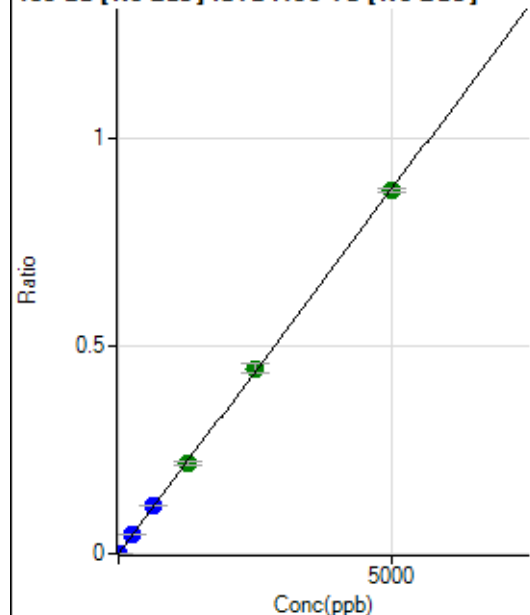
$$DL = 0.01084$$

$$BEC = 0.004787$$

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	16.67	0.0000	P	51.2
2	☐	10.000	10.407	16774.79	0.0018	P	1.1
3	☐	250.000	269.009	433812.96	0.0473	P	4.6
4	☐	625.000	663.510	1078062.19	0.1166	P	1.7
5	☐	1250.000	1249.040	2048632.45	0.2194	A	3.7
6	☐	2500.000	2534.890	4074494.10	0.4453	A	5.3
7	☐	5000.000	4977.030	8291548.62	0.8742	A	1.2
8	☐			4106.27	0.0004	P	8.4

$$y = 1.7566\text{E-}004 * x + 1.7950\text{E-}006$$

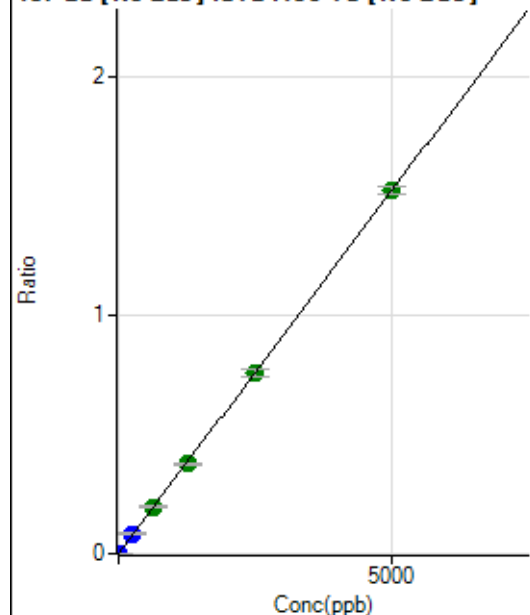
$$R = 0.9999$$

$$DL = 0.0157$$

$$BEC = 0.01022$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16.67	0.0000	P	51.2
2	☐	10.000	10.597	29622.05	0.0032	P	3.0
3	☐	250.000	273.868	766513.36	0.0835	P	4.2
4	☐	625.000	646.026	1821572.31	0.1969	A	1.6
5	☐	1250.000	1240.164	3531337.62	0.3780	A	2.0
6	☐	2500.000	2496.186	6967142.95	0.7609	A	3.8
7	☐	5000.000	5000.543	14455750.50	1.5244	A	2.1
8	☐			7165.98	0.0008	P	2.3

$$y = 3.0484E-004 * x + 1.7950E-006$$

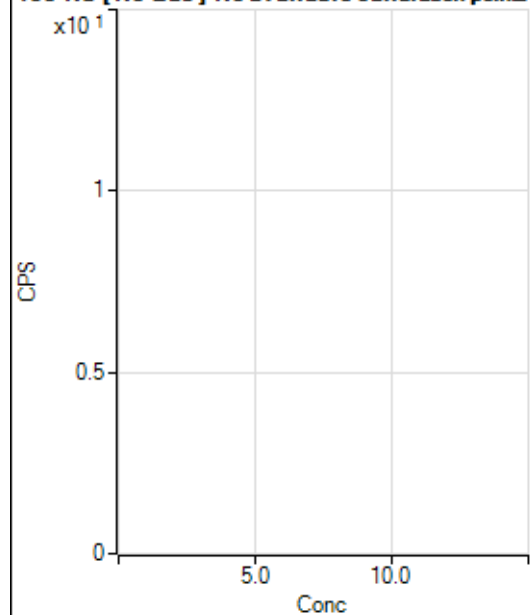
$$R = 1.0000$$

$$DL = 0.009048$$

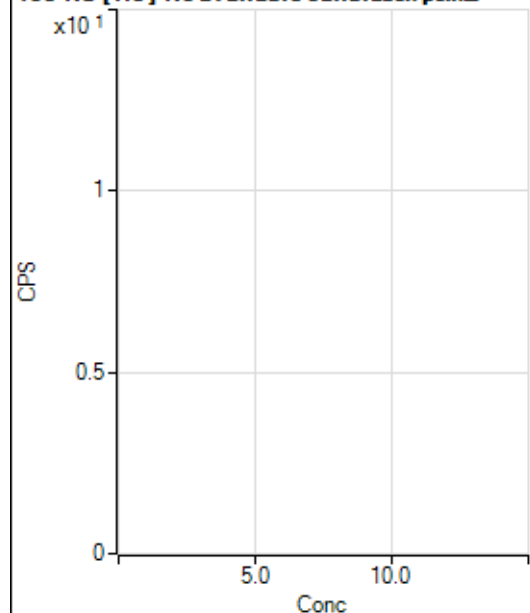
$$BEC = 0.005888$$

Weight: <None>

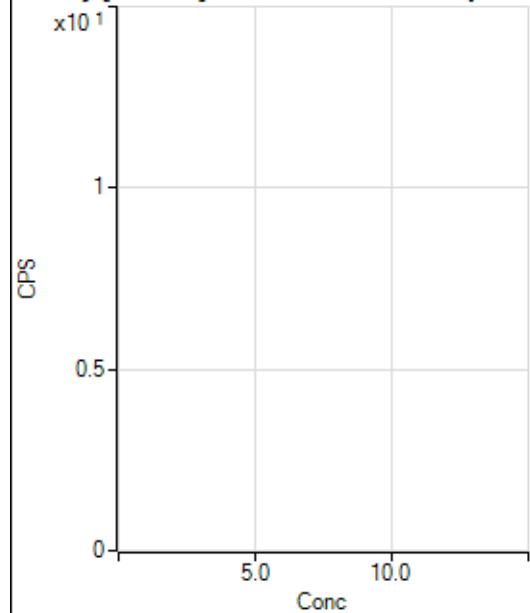
Min Conc: 0

150 Nd [No Gas] No available calibration points

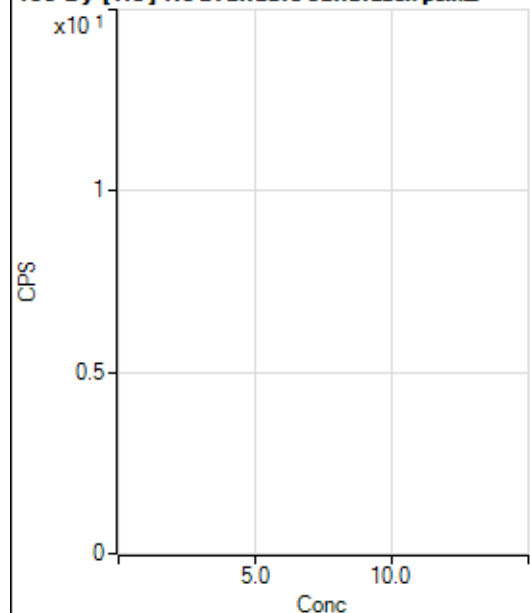
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	34.7
2	☐			6.67		P	0.0
3	☐			44.45		P	37.7
4	☐			77.78		P	39.6
5	☐			122.22		P	16.7
6	☐			300.01		P	11.8
7	☐			595.58		P	12.3
8	☐			77.78		P	27.6

150 Nd [He] No available calibration points

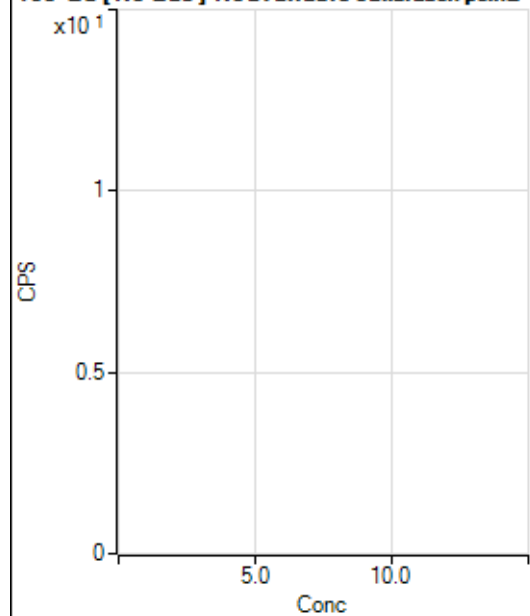
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			2.22		P	86.6
3	☐			6.67		P	50.0
4	☐			11.11		P	17.3
5	☐			12.22		P	41.7
6	☐			14.45		P	74.2
7	☐			36.67		P	9.1
8	☐			22.22		P	45.8

156 Dy [No Gas] No available calibration points

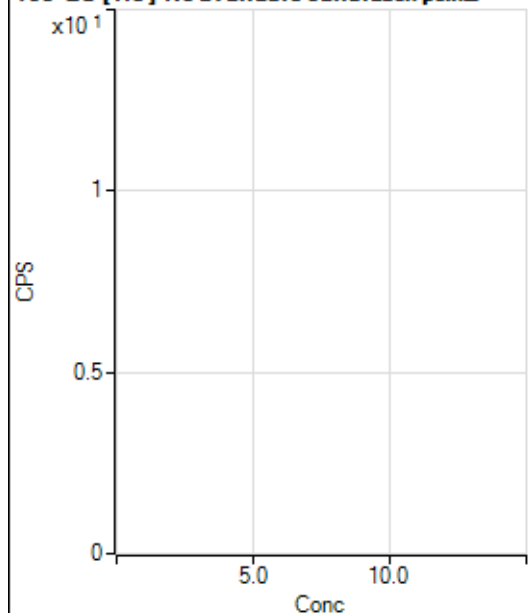
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.
2	☐			22.22		P	21.6
3	☐			27.78		P	45.8
4	☐			50.00		P	44.1
5	☐			119.45		P	17.6
6	☐			200.01		P	22.0
7	☐			425.02		P	16.8
8	☐			805.60		P	13.8

156 Dy [He] No available calibration points

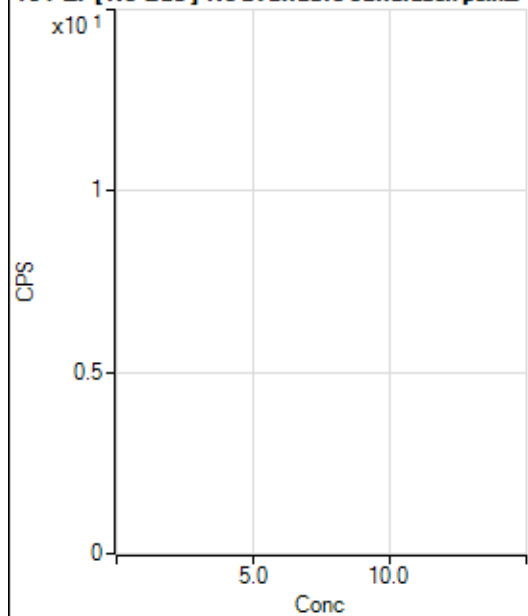
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			2.22		P	86.6
3	☐			13.33		P	75.0
4	☐			20.00		P	33.4
5	☐			32.22		P	6.0
6	☐			72.22		P	18.6
7	☐			136.67		P	11.2
8	☐			265.56		P	16.4

160 Gd [No Gas] Noavailable calibration poin_

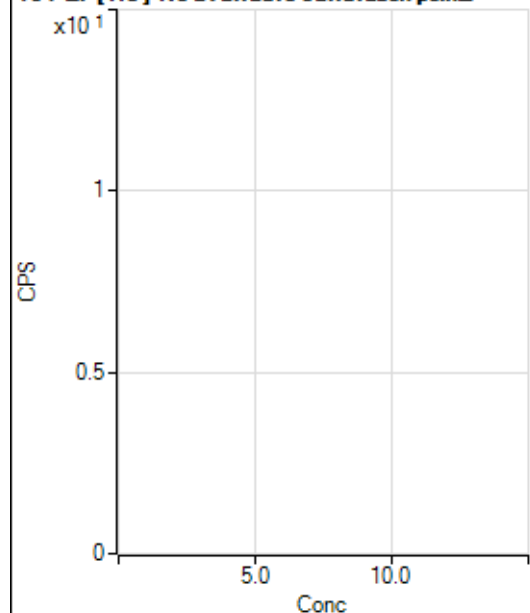
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.67		P	33.1
2	☐			55.55		P	8.7
3	☐			44.44		P	71.0
4	☐			72.23		P	13.3
5	☐			122.23		P	21.9
6	☐			186.12		P	11.3
7	☐			375.01		P	7.7
8	☐			547.25		P	2.3

160 Gd [He] No available calibration points

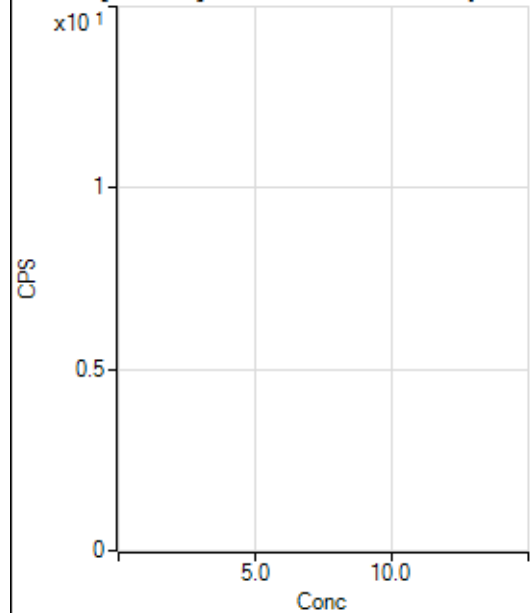
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	13.7
2	☐			57.78		P	6.7
3	☐			65.56		P	12.8
4	☐			73.33		P	16.4
5	☐			78.89		P	12.2
6	☐			117.78		P	9.1
7	☐			175.56		P	27.1
8	☐			256.67		P	9.8

164 Er [No Gas] No available calibration points

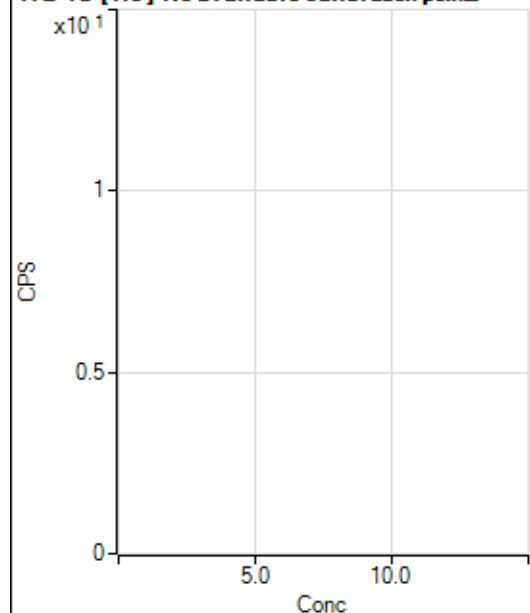
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			58.34		P	57.1
2	☐			97.22		P	4.9
3	☐			58.34		P	14.3
4	☐			100.00		P	36.3
5	☐			94.45		P	45.3
6	☐			97.23		P	17.8
7	☐			194.45		P	25.1
8	☐			116.67		P	21.4

164 Er [He] No available calibration points

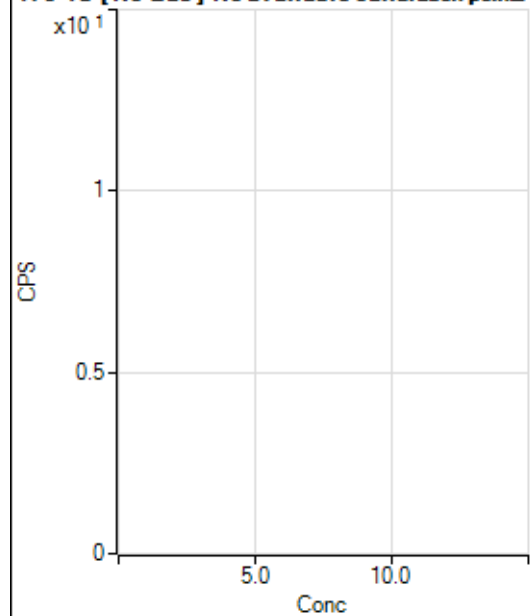
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	22.9
2	☐			18.89		P	27.0
3	☐			18.89		P	10.2
4	☐			26.67		P	66.1
5	☐			28.89		P	48.0
6	☐			31.11		P	34.4
7	☐			62.22		P	8.2
8	☐			42.22		P	22.8

172 Yb [No Gas] No available calibration points

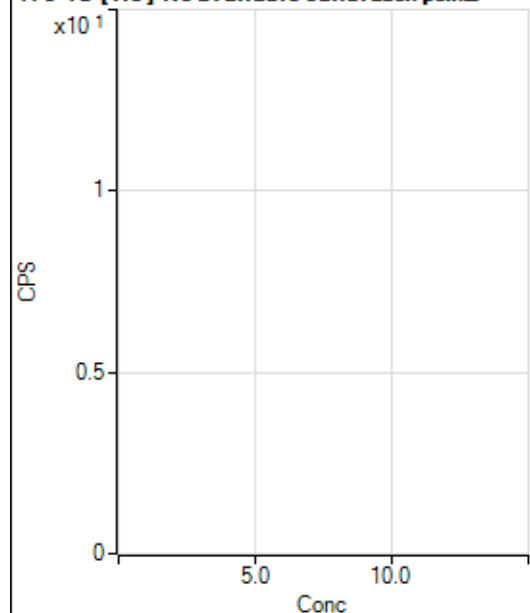
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.44		P	39.0
2	☐			52.78		P	45.6
3	☐			66.67		P	64.9
4	☐			66.67		P	33.1
5	☐			72.22		P	29.0
6	☐			72.23		P	33.3
7	☐			105.56		P	31.9
8	☐			200.01		P	7.2

172 Yb [He] No available calibration points

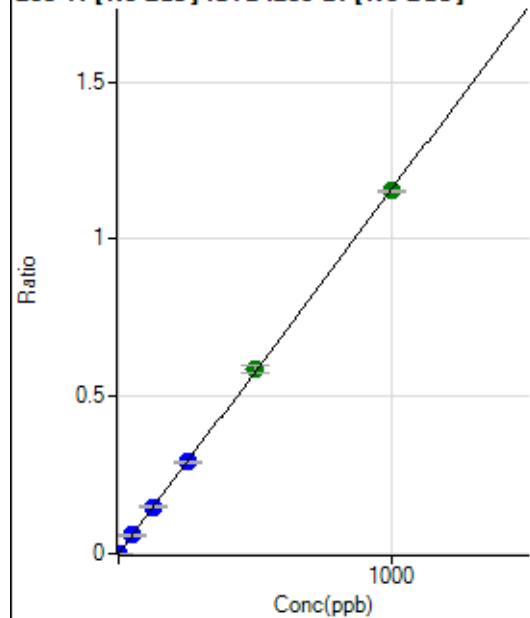
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			27.78		P	20.0
2	☐			18.52		P	45.8
3	☐			22.22		P	43.3
4	☐			27.78		P	69.3
5	☐			24.07		P	66.6
6	☐			31.48		P	10.2
7	☐			42.59		P	27.2
8	☐			77.78		P	7.1

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1241.75		P	9.1
2	☐			1177.86		P	3.6
3	☐			2325.27		P	1.3
4	☐			4487.02		P	4.3
5	☐			7777.50		P	3.2
6	☐			14316.52		P	2.7
7	☐			27991.59		P	1.3
8	☐			1180.65		P	10.5

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3880.27		P	2.1
2	☐			3854.35		P	4.0
3	☐			4174.81		P	6.9
4	☐			4586.06		P	1.6
5	☐			5907.00		P	2.3
6	☐			8367.63		P	3.9
7	☐			13360.67		P	0.7
8	☐			3676.50		P	7.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	155.56	0.0000	P	16.3
2	☐	1.000	1.006	6134.95	0.0012	P	1.7
3	☐	50.000	50.859	307762.75	0.0589	P	6.6
4	☐	125.000	128.491	784803.46	0.1488	P	2.1
5	☐	250.000	251.030	1554406.52	0.2906	P	0.3
6	☐	500.000	505.651	3091886.83	0.5853	A	4.6
7	☐	1000.000	996.438	6249595.11	1.1534	A	0.7
8	☐			2064.11	0.0004	P	4.3

$$y = 0.0012 * x + 2.9246E-005$$

$$R = 1.0000$$

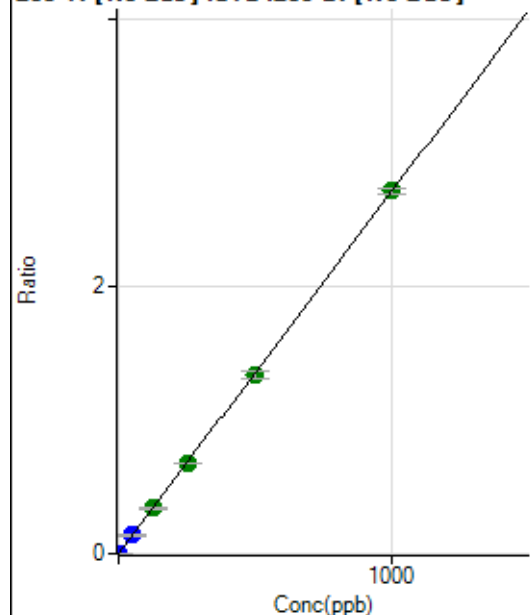
$$DL = 0.01232$$

$$BEC = 0.02527$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	372.24	0.0001	P	10.0
2	☐	1.000	1.009	14408.40	0.0028	P	4.1
3	☐	50.000	51.873	734690.96	0.1406	P	6.5
4	☐	125.000	125.617	1795105.01	0.3404	A	4.4
5	☐	250.000	249.454	3615780.59	0.6759	A	1.0
6	☐	500.000	494.610	7079239.66	1.3401	A	4.2
7	☐	1000.000	1002.661	14718430.54	2.7165	A	1.5
8	☐			5162.30	0.0011	P	3.3

$$y = 0.0027 * x + 6.9939E-005$$

$$R = 1.0000$$

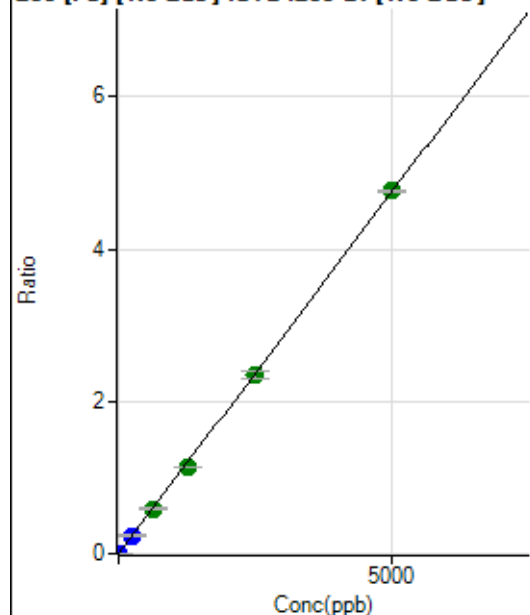
$$DL = 0.007709$$

$$BEC = 0.02582$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	687.07	0.0001	P	2.2
2	☐	1.000	1.036	5714.33	0.0011	P	1.4
3	☐	250.000	251.414	1246228.74	0.2385	P	6.1
4	☐	625.000	621.521	3107651.89	0.5893	A	4.6
5	☐	1250.000	1204.842	6110302.97	1.1422	A	0.9
6	☐	2500.000	2475.902	12396640.67	2.3471	A	5.2
7	☐	5000.000	5023.703	25803400.81	4.7623	A	0.9
8	☐			6033.01	0.0012	P	3.7

$$y = 9.4794E-004 * x + 1.2922E-004$$

$$R = 0.9999$$

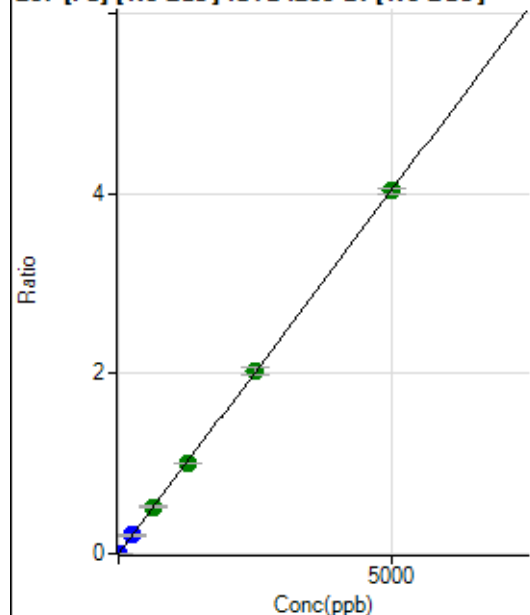
$$DL = 0.008793$$

$$BEC = 0.1363$$

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	611.14	0.0001	P	17.8
2	☐	1.000	0.997	4728.74	0.0009	P	3.6
3	☐	250.000	258.115	1089212.73	0.2086	P	8.1
4	☐	625.000	635.841	2708973.27	0.5137	A	4.0
5	☐	1250.000	1244.925	5378820.49	1.0057	A	1.3
6	☐	2500.000	2514.230	10729059.50	2.0309	A	4.2
7	☐	5000.000	4992.393	21850983.59	4.0325	A	1.4
8	☐			5304.90	0.0011	P	3.8

$$y = 8.0771E-004 * x + 1.1484E-004$$

$$R = 1.0000$$

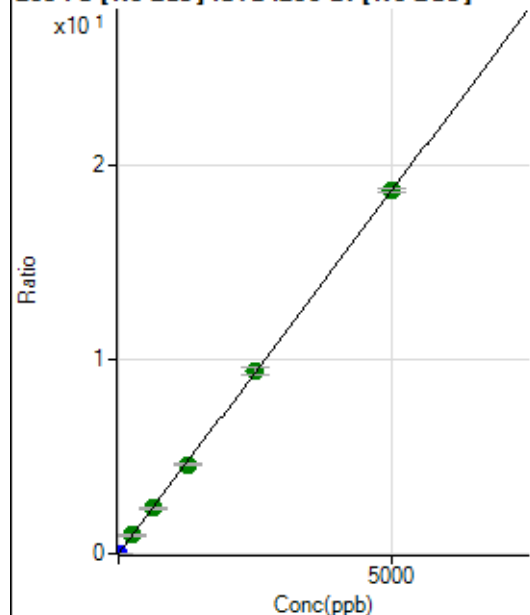
$$DL = 0.07588$$

$$BEC = 0.1422$$

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	2774.25	0.0005	P	4.9
2	☐	1.000	1.001	21927.97	0.0043	P	1.7
3	☐	250.000	252.215	4932840.87	0.9441	A	6.6
4	☐	625.000	623.811	12311513.85	2.3342	A	2.9
5	☐	1250.000	1227.574	24564918.43	4.5929	A	1.3
6	☐	2500.000	2509.717	49605069.98	9.3895	A	4.2
7	☐	5000.000	5000.786	101369308.2	18.7086	A	1.0
8	☐			23883.09	0.0049	P	1.6

$$y = 0.0037 * x + 5.2169E-004$$

$$R = 1.0000$$

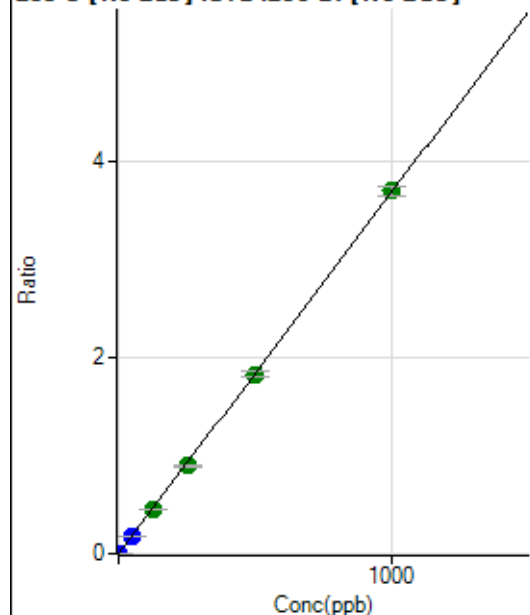
$$DL = 0.0206$$

$$BEC = 0.1395$$

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	5.55	0.0000	P	86.6
2	☐	1.000	0.965	18241.33	0.0035	P	3.2
3	☐	50.000	48.070	923913.36	0.1767	P	5.1
4	☐	125.000	121.921	2364335.88	0.4482	A	1.7
5	☐	250.000	243.958	4795710.31	0.8967	A	1.6
6	☐	500.000	495.533	9627805.77	1.8215	A	3.2
7	☐	1000.000	1004.225	19998345.41	3.6913	A	2.6
8	☐			1477.91	0.0003	P	18.0

$$y = 0.0037 * x + 1.0428E-006$$

$$R = 1.0000$$

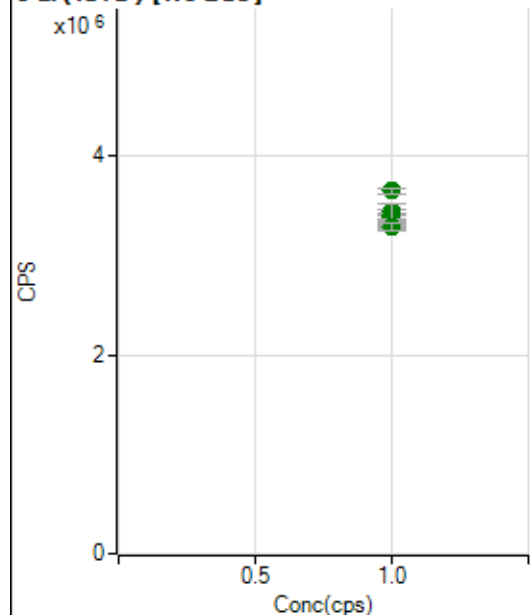
$$DL = 0.0007374$$

$$BEC = 0.0002837$$

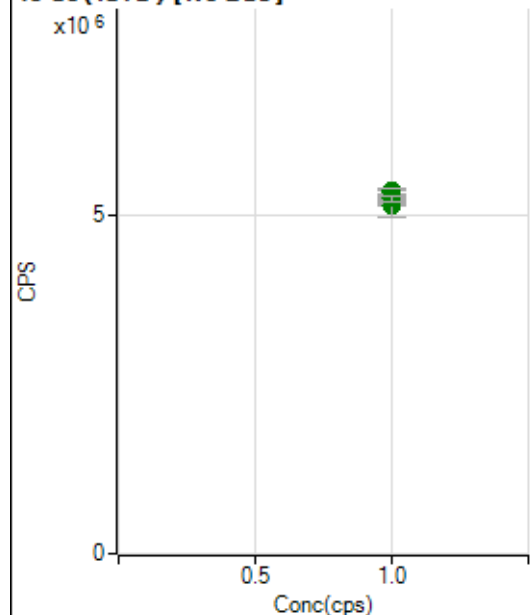
Weight: <None>

Min Conc: 0

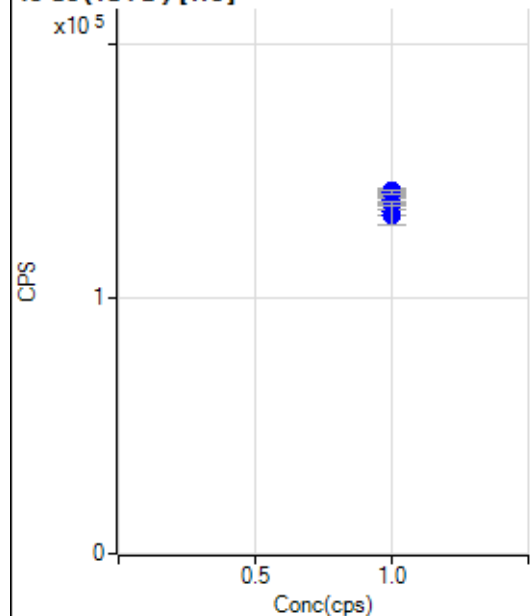
6 Li (ISTD) [No Gas]



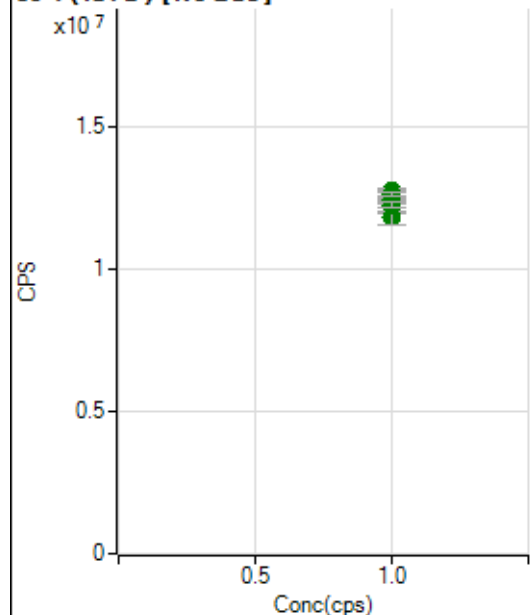
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3343014.53		A	3.3
2	☐	1.000		3331704.69		A	1.3
3	☐	1.000		3341317.39		A	4.3
4	☐	1.000		3395595.66		A	1.4
5	☐	1.000		3402161.82		A	3.5
6	☐	1.000		3448552.40		A	4.3
7	☐	1.000		3650735.36		A	1.7
8	☐	1.000		3286708.67		A	2.3

45 Sc (ISTD) [No Gas]

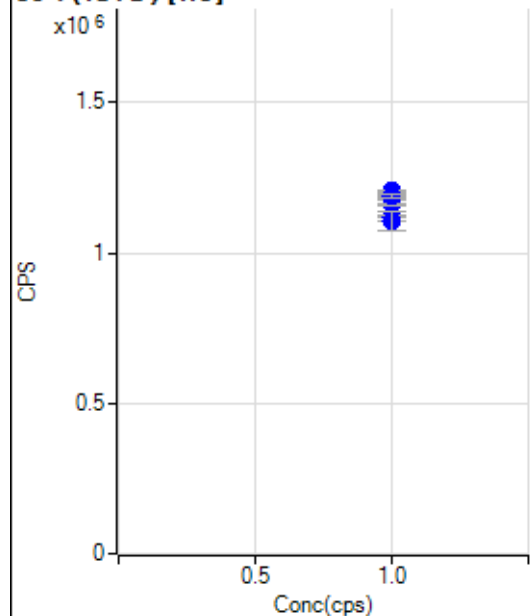
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5179346.28		A	1.6
2	☐	1.000		5295361.90		A	2.4
3	☐	1.000		5233262.94		A	2.5
4	☐	1.000		5325648.71		A	2.6
5	☐	1.000		5195102.60		A	0.3
6	☐	1.000		5118987.67		A	5.7
7	☐	1.000		5345952.35		A	1.4
8	☐	1.000		5231387.00		A	1.6

45 Sc (ISTD) [He]

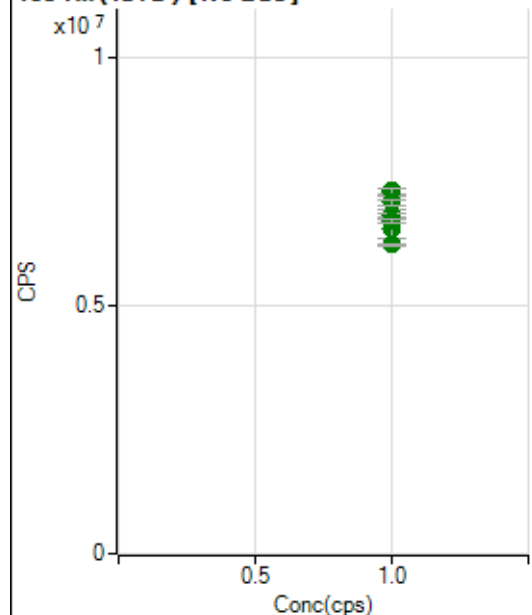
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		141399.91		P	1.5
2	☐	1.000		142147.57		P	1.1
3	☐	1.000		140227.99		P	0.2
4	☐	1.000		138427.36		P	1.5
5	☐	1.000		133800.89		P	1.4
6	☐	1.000		136166.71		P	2.0
7	☐	1.000		132706.54		P	5.4
8	☐	1.000		141726.03		P	1.4

89 Y (ISTD) [No Gas]

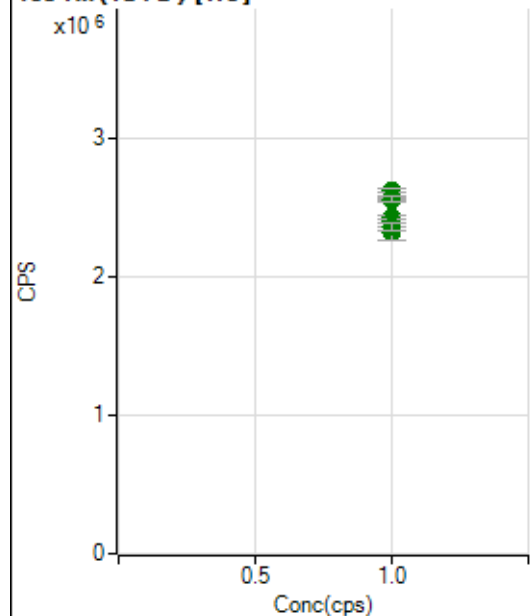
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12773794.39		A	1.1
2	☐	1.000		12653561.06		A	1.9
3	☐	1.000		12222528.71		A	3.9
4	☐	1.000		12465631.90		A	1.0
5	☐	1.000		12163856.49		A	2.7
6	☐	1.000		11835749.82		A	3.9
7	☐	1.000		12682776.34		A	1.0
8	☐	1.000		12281836.62		A	1.4

89 Y (ISTD) [He]

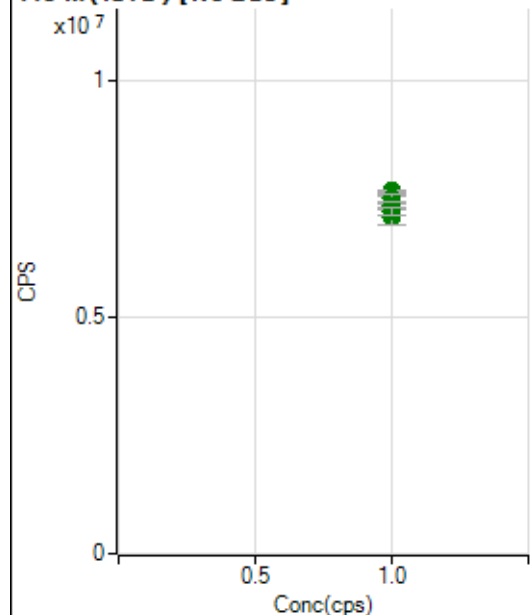
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1206462.99		P	0.5
2	☐	1.000		1197876.29		P	1.6
3	☐	1.000		1180207.45		P	0.5
4	☐	1.000		1161872.78		P	0.5
5	☐	1.000		1122533.12		P	0.8
6	☐	1.000		1115915.12		P	1.2
7	☐	1.000		1103938.75		P	5.8
8	☐	1.000		1190648.53		P	1.2

103 Rh (ISTD) [No Gas]

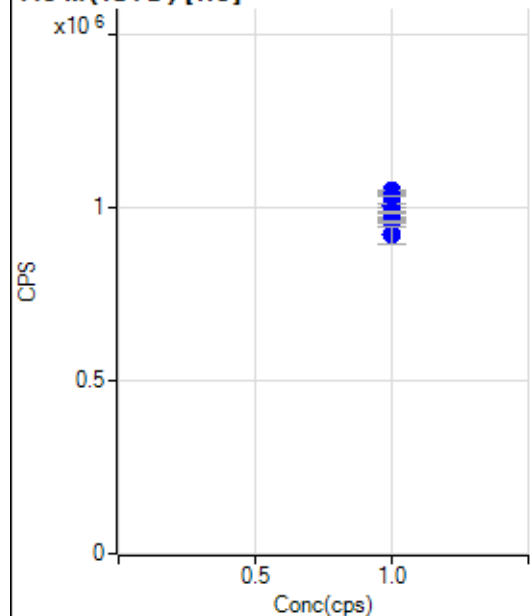
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7304518.13		A	1.5
2	☐	1.000		7281372.13		A	1.7
3	☐	1.000		7079394.91		A	3.9
4	☐	1.000		7065964.83		A	1.7
5	☐	1.000		6802308.31		A	1.3
6	☐	1.000		6539963.90		A	6.0
7	☐	1.000		6691677.88		A	1.1
8	☐	1.000		6216841.55		A	0.3

103 Rh (ISTD) [He]

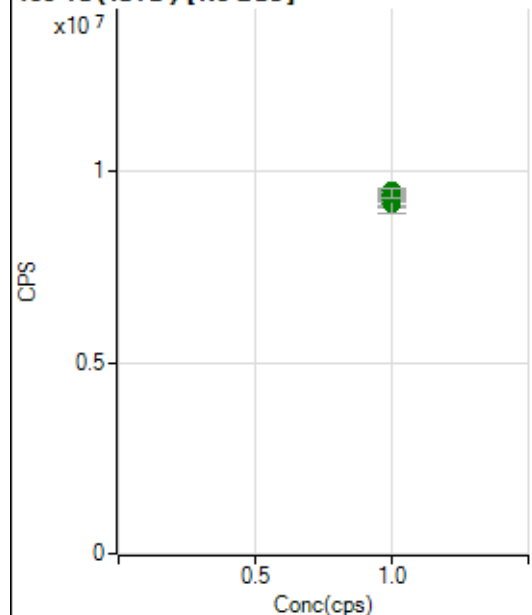
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2622710.85		A	0.9
2	☐	1.000		2570333.59		A	0.7
3	☐	1.000		2559697.70		A	1.0
4	☐	1.000		2563344.13		A	1.4
5	☐	1.000		2435136.09		A	1.0
6	☐	1.000		2407160.78		A	0.8
7	☐	1.000		2316503.14		A	4.3
8	☐	1.000		2369220.52		A	2.3

115 In (ISTD) [No Gas]

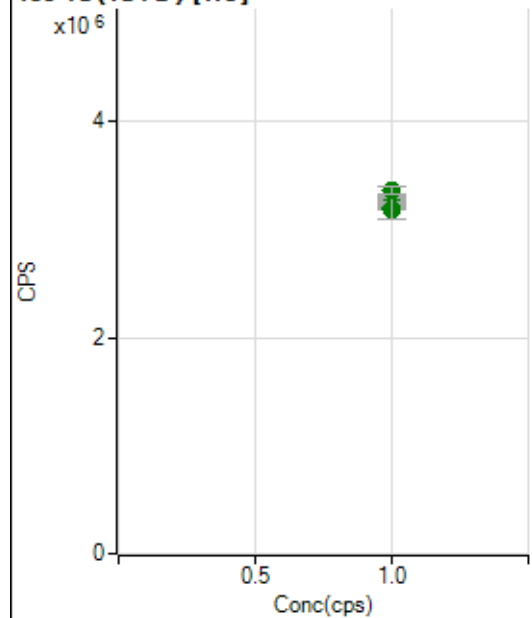
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7683160.06		A	0.5
2	☐	1.000		7515483.61		A	1.2
3	☐	1.000		7436735.49		A	3.4
4	☐	1.000		7529987.48		A	2.0
5	☐	1.000		7371612.66		A	1.1
6	☐	1.000		7146666.34		A	5.4
7	☐	1.000		7355026.67		A	2.3
8	☐	1.000		7235950.57		A	2.1

115 In (ISTD) [He]

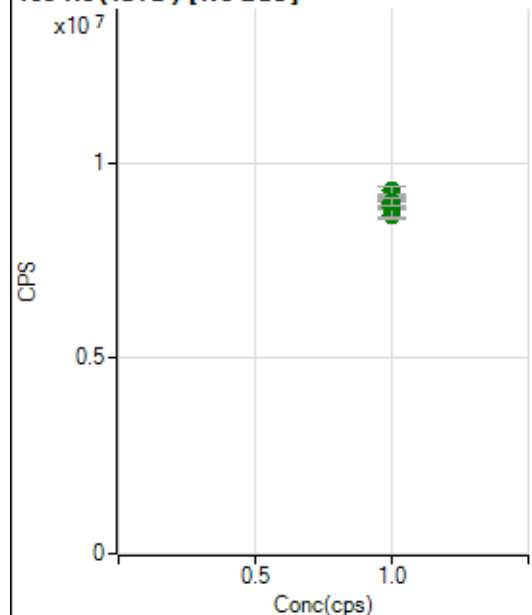
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1049284.93		P	0.6
2	☐	1.000		1036477.73		P	0.5
3	☐	1.000		1035055.18		P	0.3
4	☐	1.000		1008802.32		P	1.1
5	☐	1.000		969684.10		P	0.7
6	☐	1.000		960439.58		P	0.4
7	☐	1.000		920616.18		P	5.5
8	☐	1.000		988740.80		P	0.4

159 Tb (ISTD) [No Gas]

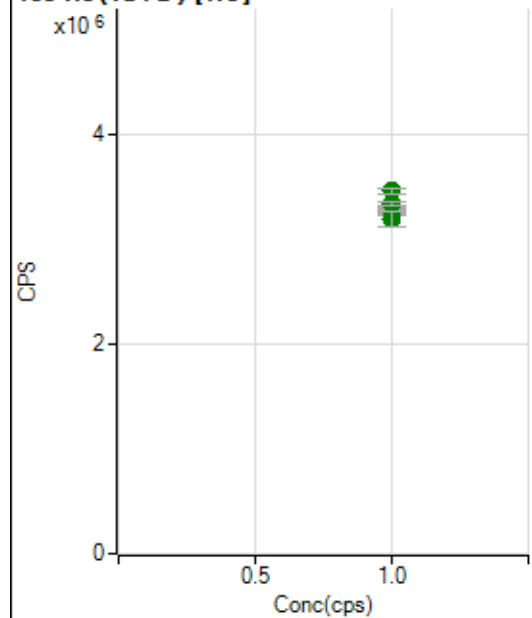
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9312980.07		A	1.9
2	☐	1.000		9167237.22		A	1.4
3	☐	1.000		9189570.42		A	3.3
4	☐	1.000		9251093.82		A	1.5
5	☐	1.000		9344058.96		A	3.1
6	☐	1.000		9168300.97		A	5.5
7	☐	1.000		9484742.78		A	1.2
8	☐	1.000		9420118.61		A	2.8

159 Tb (ISTD) [He]

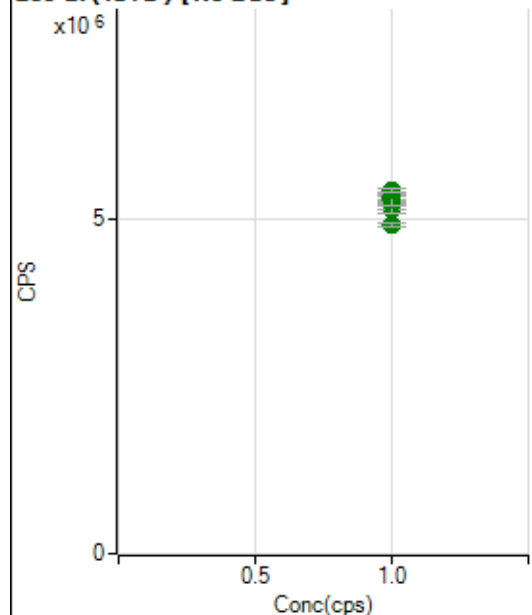
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3269011.06		A	0.8
2	☐	1.000		3220786.20		A	0.7
3	☐	1.000		3242939.95		A	1.0
4	☐	1.000		3300824.36		A	0.1
5	☐	1.000		3210816.44		A	1.7
6	☐	1.000		3247380.37		A	0.9
7	☐	1.000		3190366.06		A	6.3
8	☐	1.000		3356519.01		A	2.3

165 Ho (ISTD) [No Gas]

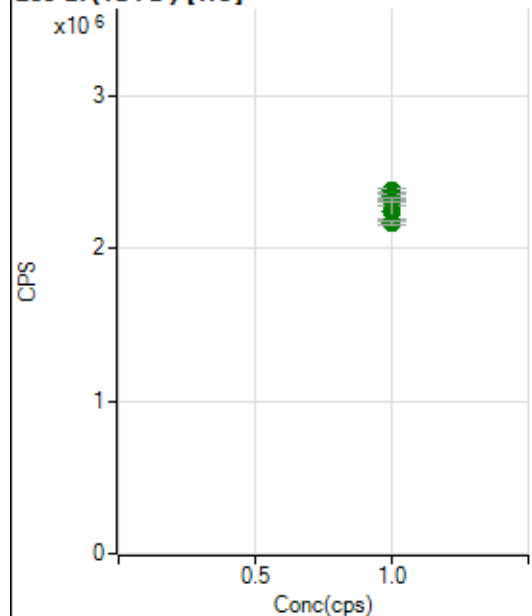
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8979049.16		A	1.8
2	☐	1.000		8935584.05		A	1.7
3	☐	1.000		8678019.64		A	2.6
4	☐	1.000		8912504.02		A	2.0
5	☐	1.000		8948426.24		A	3.3
6	☐	1.000		8867217.99		A	6.0
7	☐	1.000		9283406.72		A	2.2
8	☐	1.000		9011432.15		A	1.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3264899.95		A	1.6
2	☐	1.000		3292379.57		A	2.4
3	☐	1.000		3317168.42		A	0.7
4	☐	1.000		3335910.96		A	1.5
5	☐	1.000		3271506.62		A	0.6
6	☐	1.000		3342887.07		A	0.8
7	☐	1.000		3195120.30		A	5.1
8	☐	1.000		3465015.16		A	1.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5318420.79		A	1.8
2	☐	1.000		5141366.14		A	0.2
3	☐	1.000		5239923.15		A	6.5
4	☐	1.000		5276367.25		A	2.0
5	☐	1.000		5349144.89		A	2.2
6	☐	1.000		5287722.70		A	3.5
7	☐	1.000		5418599.95		A	1.2
8	☐	1.000		4914805.03		A	1.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2335839.04		A	2.7
2	☐	1.000		2353120.77		A	3.4
3	☐	1.000		2358804.41		A	0.4
4	☐	1.000		2376192.03		A	1.2
5	☐	1.000		2337506.35		A	1.7
6	☐	1.000		2308493.96		A	2.1
7	☐	1.000		2246041.72		A	4.9
8	☐	1.000		2166613.40		A	1.3

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8042922-MS.b

Acq. Date-Time 2022-04-29 10:38:19

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		11535	115346.20			0.439	5.000
24		70346	703456.50			1.727	5.000
25		9985	99845.48			0.521	5.000
26		11881	118811.11			0.377	5.000
59		18050	180497.33			0.488	5.000
113		9143	91434.21			0.829	5.000
115		27710	277103.30			3.390	5.000
206		11183	111834.72			0.925	5.000
207		9446	94459.23			1.113	5.000
208		23447	234468.93			1.526	5.000
220		1	5.60			24.776	

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

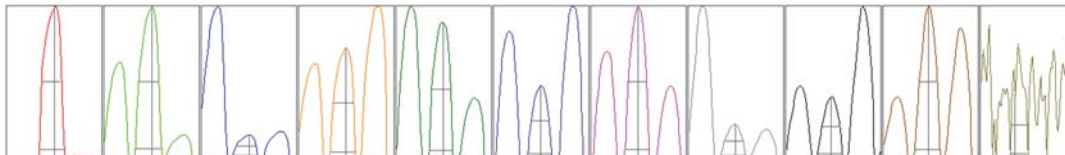
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	11475	11533	11602	11499	11564
24	69483	68788	71252	71722	70484
25	10039	9936	9929	9983	10034
26	11893	11842	11827	11933	11911
59	18180	18013	18054	17938	18064
113	9262	9145	9108	9056	9146
115	29226	27900	27381	27289	26756
206	11192	11056	11112	11319	11239
207	9492	9306	9406	9590	9435
208	23366	23125	23340	24063	23340

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	19585.11	9.05	8.90 - 9.10	
24	118031.46	24.05	23.90 - 24.10	
25	16796.39	25.05	24.90 - 25.10	
26	19500.97	26.00	25.90 - 26.10	
59	31935.50	59.00	58.90 - 59.10	
113	17242.43	113.00	112.90 - 113.10	
115	51874.32	115.00	114.90 - 115.10	
206	20538.19	206.00	205.90 - 206.10	
207	17299.51	206.95	206.90 - 207.10	
208	43395.83	207.95	207.90 - 208.10	
220	0.50	219.60	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.784	0.900	
24	0.64	0.827	0.900	
25	0.63	0.789	0.900	
26	0.65	0.788	0.900	
59	0.60	0.740	0.900	
113	0.55	0.747	0.900	
115	0.57	0.764	0.900	
206	0.57	0.798	0.900	
207	0.56	0.785	0.900	
208	0.57	0.789	0.900	
220	0.50	0.545		

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	9.5 V	Deflect	15.6 V
Extract 2	-155.0 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	200 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9990	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	-0.2 mm
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EM

Discriminator	4.0 mV	Analog HV	2302 V	Pulse HV	1660 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		3052	30521.49			3.128	
89		11827	118273.84			3.316	
205		21959	219590.28			2.950	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	2916	3064	3186	3046	3049
89	11235	11876	12299	11998	11728
205	20922	22048	22711	22130	21984

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	9.5 V	Deflect	5.2 V
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US EPA Tune Check Report

Extract 2	-155.0 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	0.9990	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	-0.2 mm
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EM

Discriminator	4.0 mV	Analog HV	2302 V	Pulse HV	1660 V
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