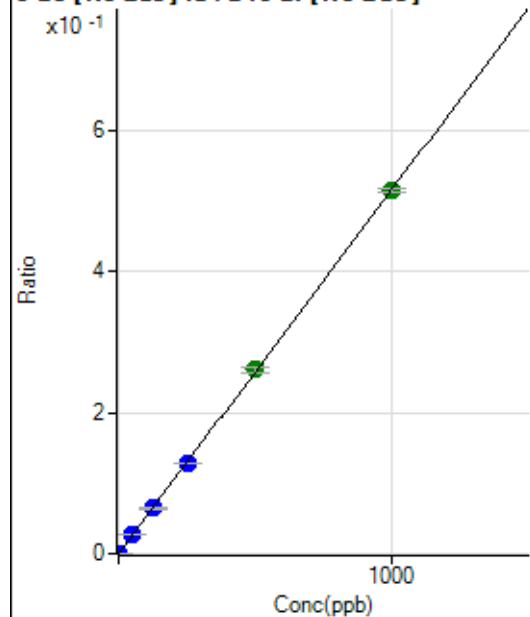


Calibration for 010CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7082923 MS.b\
 Analysis File: P7082923 MS.batch.bin
 DA Date-Time: 2023-08-29 23:20:49
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-08-29 11:12:25
2	006CALS.d	S02	2023-08-29 11:18:56
3	010CALS.d	S03	2023-08-29 11:38:37
4	011CALS.d	S04	2023-08-29 11:41:34
5	012CALS.d	S05	2023-08-29 11:44:26
6	013CALS.d	S06	2023-08-29 11:47:10
7	014CALS.d	S07	2023-08-29 11:49:58
8	015CALS.d	S08	2023-08-29 11:52:43

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	168.89	0.0000	P	10.5
2	☐	1.000	1.053	2780.27	0.0006	P	2.6
3	☐	50.000	51.312	128625.78	0.0265	P	0.5
4	☐	125.000	124.786	315736.49	0.0644	P	2.6
5	☐	250.000	247.132	620031.26	0.1276	P	0.4
6	☐	500.000	505.702	1273894.00	0.2610	A	2.8
7	☐	1000.000	997.827	2485546.59	0.5150	A	1.0
8	☐			848.92	0.0002	P	28.7

$$y = 5.1612\text{E-}004 * x + 3.5210\text{E-}005$$

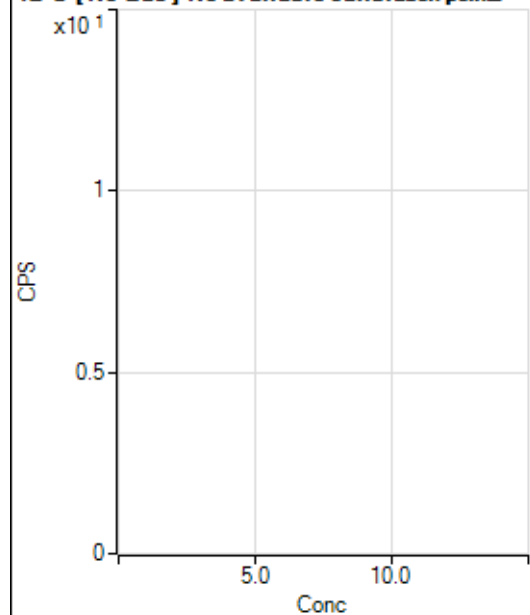
$$R = 1.0000$$

$$DL = 0.02156$$

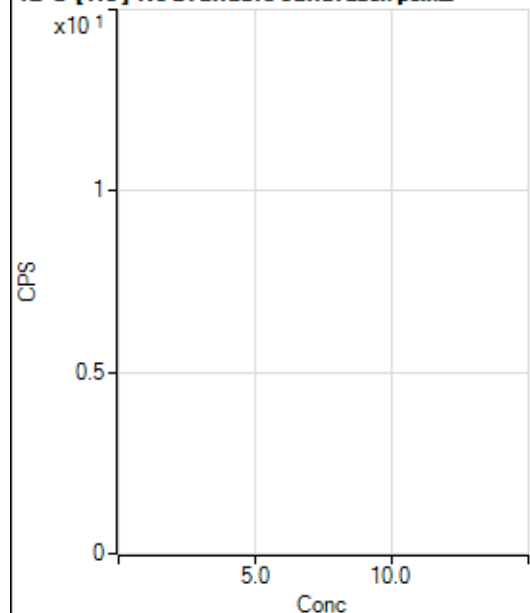
$$BEC = 0.06822$$

Weight: <None>

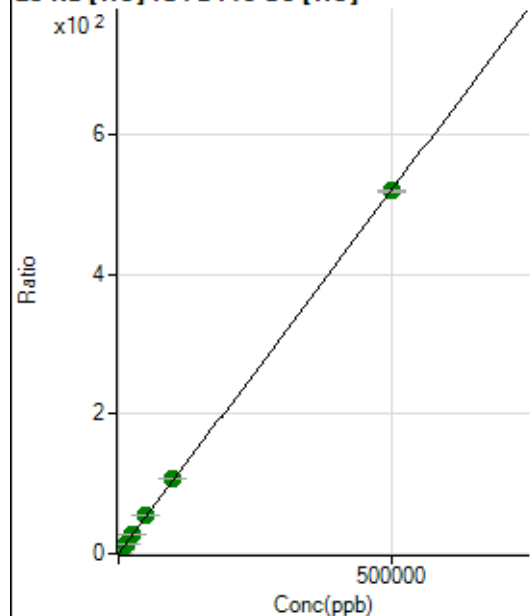
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	106469.27	0.1217	P	1.1
2	☐	500.000	478.209	543439.07	0.6199	P	0.5
3	☐	5000.000	5092.262	4694008.23	5.4274	A	0.5
4	☐	12500.000	12734.960	11387371.36	13.3906	A	0.5
5	☐	25000.000	25639.666	22621576.61	26.8363	A	0.7
6	☐	50000.000	52038.231	45615095.99	54.3417	A	0.8
7	☐	100000.00	102939.04	90888973.09	107.3767	A	0.9
8	☐	500000.00	499169.61	417765971.5	520.2202	A	0.3

$$y = 0.0010 * x + 0.1217$$

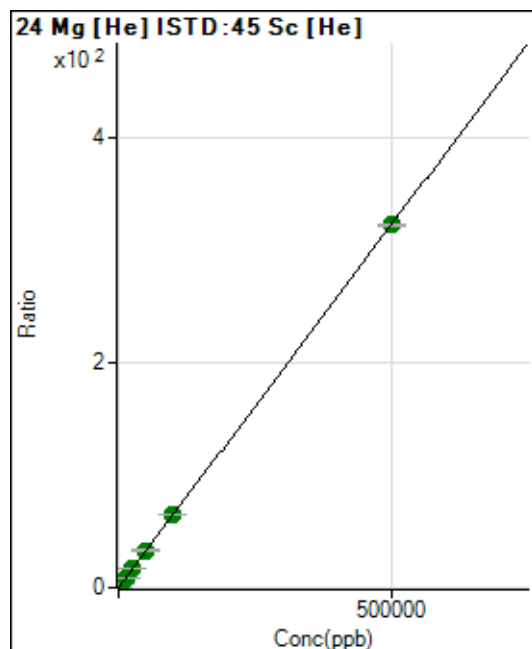
$$R = 1.0000$$

$$DL = 3.72$$

$$BEC = 116.8$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	941.15	0.0011	P	8.4
2	☐	500.000	479.172	272512.32	0.3109	P	0.8
3	☐	5000.000	5121.995	2865237.04	3.3127	A	1.0
4	☐	12500.000	12651.010	6956628.23	8.1805	A	0.1
5	☐	25000.000	25576.796	13940210.62	16.5376	A	0.8
6	☐	50000.000	51590.561	27999958.75	33.3566	A	1.1
7	☐	100000.00	101252.02	55412472.51	65.4649	A	0.6
8	☐	500000.00	499556.72	259375196.1	322.9861	A	0.6

$$y = 6.4654\text{E-}004 * x + 0.0011$$

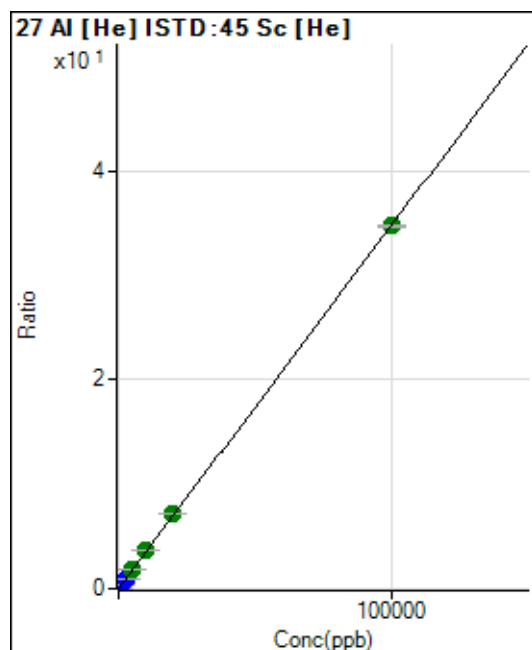
$$R = 1.0000$$

$$DL = 0.4212$$

$$BEC = 1.663$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	527.79	0.0006	P	3.5
2	☐	20.000	20.034	6635.93	0.0076	P	1.4
3	☐	1000.000	1036.869	312298.33	0.3611	P	0.8
4	☐	2500.000	2573.645	761442.63	0.8954	P	0.1
5	☐	5000.000	5197.493	1523739.46	1.8077	A	1.1
6	☐	10000.000	10361.093	3024348.95	3.6029	A	0.2
7	☐	20000.000	20613.574	6066841.65	7.1675	A	0.5
8	☐	100000.00	99829.091	27873884.86	34.7090	A	0.5

$$y = 3.4768\text{E-}004 * x + 6.0312\text{E-}004$$

$$R = 1.0000$$

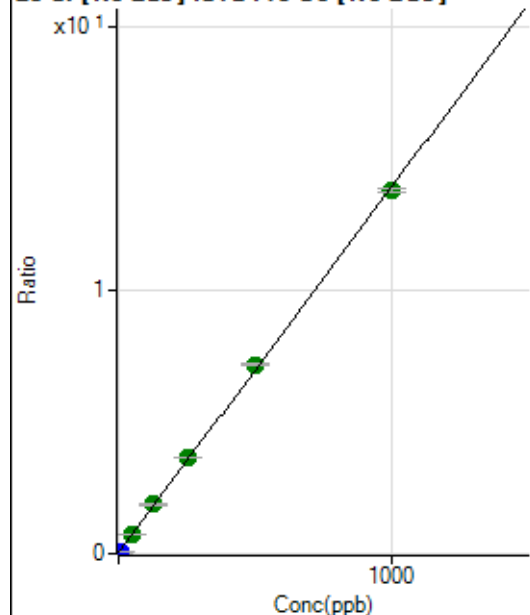
$$DL = 0.1824$$

$$BEC = 1.735$$

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	387403.21	0.0366	P	2.0
2	☐	10.000	0.448	454553.25	0.0428	P	0.9
3	☐	50.000	50.492	7768880.72	0.7365	A	0.9
4	☐	125.000	132.860	19164211.94	1.8783	A	3.1
5	☐	250.000	259.281	37304653.33	3.6307	A	0.9
6	☐	500.000	514.079	75221236.10	7.1627	A	1.1
7	☐	1000.000	989.729	145474080.0	13.7562	A	1.2
8	☐			1340786.97	0.1356	A	6.8

$$y = 0.0139 * x + 0.0366$$

$$R = 0.9997$$

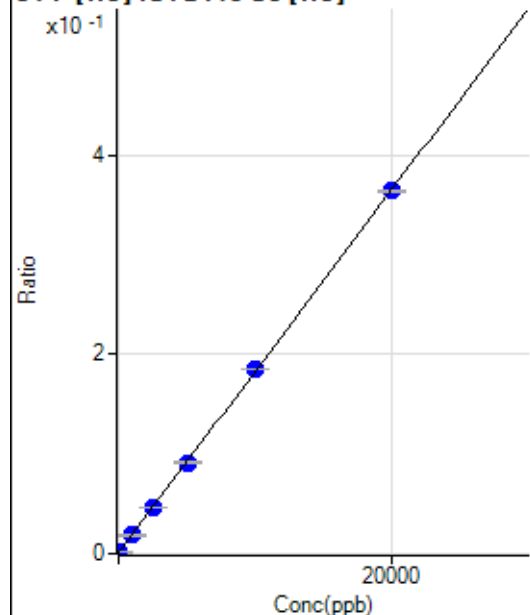
$$DL = 0.1613$$

$$BEC = 2.641$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-9.976	580.02	0.0007	P	7.9
2	☐	0.000	9.976	900.04	0.0010	P	8.8
3	☐	1000.000	966.708	15946.19	0.0184	P	1.9
4	☐	2500.000	2485.693	39192.34	0.0461	P	0.4
5	☐	5000.000	4981.667	77142.01	0.0915	P	1.2
6	☐	10000.000	10109.715	155164.44	0.1849	P	0.6
7	☐	20000.000	19953.179	308114.62	0.3640	P	0.5
8	☐			656.69	0.0008	P	13.2

$$y = 1.8201E-005 * x + 8.4409E-004$$

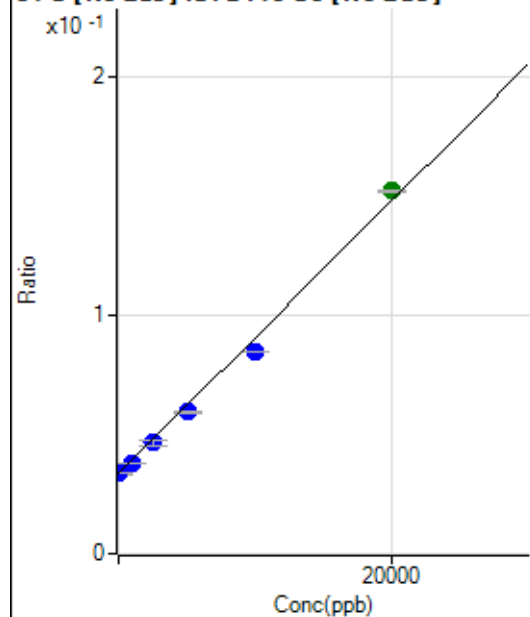
$$R = 1.0000$$

$$DL = 11.76$$

$$BEC = 46.38$$

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	8.274	356698.11	0.0337	P	2.6
2	☐	0.000	-8.274	356875.00	0.0336	P	0.3
3	☐	1000.000	759.410	400883.64	0.0380	P	1.4
4	☐	2500.000	2227.253	473514.08	0.0464	P	3.8
5	☐	5000.000	4507.119	611106.58	0.0595	P	1.3
6	☐	10000.000	8927.253	890682.76	0.0848	P	0.5
7	☐	20000.000	20705.717	1610709.65	0.1523	A	0.5
8	☐			306433.79	0.0310	P	2.2

$$y = 5.7301\text{E-}006 * x + 0.0337$$

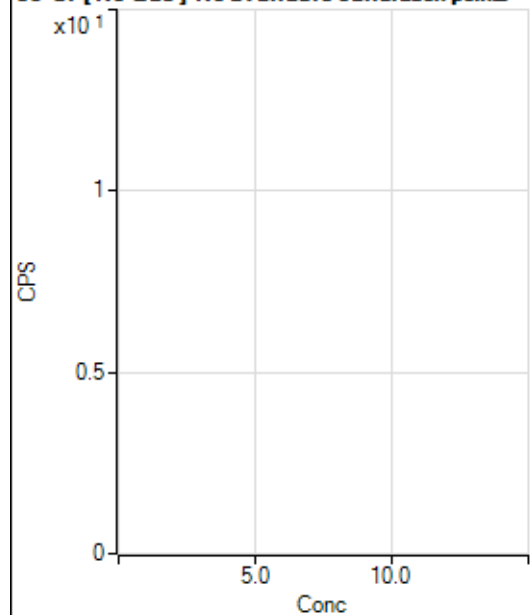
$$R = 0.9977$$

$$DL = 256.4$$

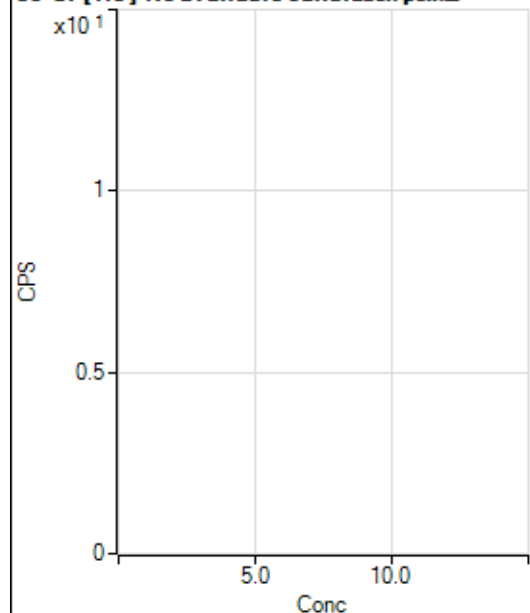
$$BEC = 5874$$

Weight: <None>

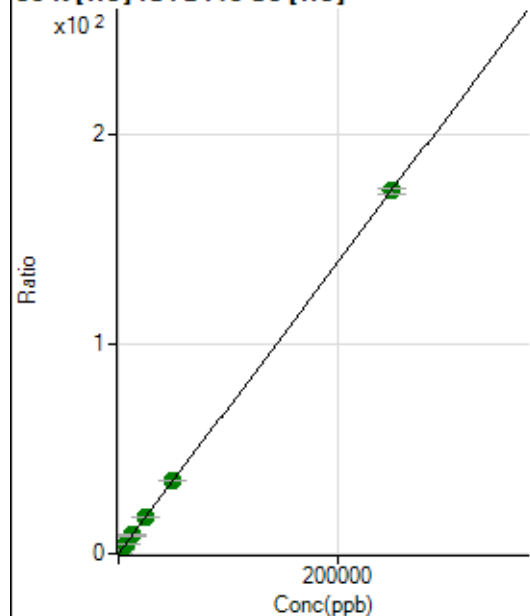
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	80850.87	0.0924	P	0.2
2	☐	500.000	493.250	380159.23	0.4337	P	0.8
3	☐	2500.000	2519.083	1587305.12	1.8353	A	2.2
4	☐	6250.000	6312.108	3792526.51	4.4596	A	1.0
5	☐	12500.000	12543.306	7393184.05	8.7709	A	1.8
6	☐	25000.000	25544.314	14913100.61	17.7661	A	0.3
7	☐	50000.000	50183.806	29467909.84	34.8138	A	0.5
8	☐	250000.00	249904.91	138915726.8	172.9977	A	1.5

$$y = 6.9188\text{E-}004 * x + 0.0924$$

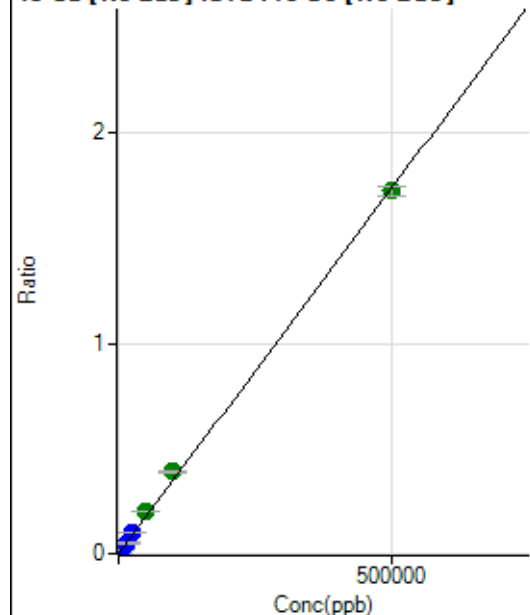
$$R = 1.0000$$

$$DL = 0.7624$$

$$BEC = 133.5$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1493.42	0.0001	P	7.5
2	☐	500.000	474.835	19003.09	0.0018	P	2.1
3	☐	5000.000	5630.519	207668.43	0.0197	P	1.7
4	☐	12500.000	14331.251	509065.38	0.0499	P	3.1
5	☐	25000.000	28180.984	1006695.13	0.0980	P	0.3
6	☐	50000.000	57064.705	2082028.51	0.1983	A	0.8
7	☐	100000.00	112164.95	4119260.04	0.3895	A	1.3
8	☐	500000.00	496649.42	17054462.11	1.7243	A	2.9

$$y = 3.4717\text{E-}006 * x + 1.4120\text{E-}004$$

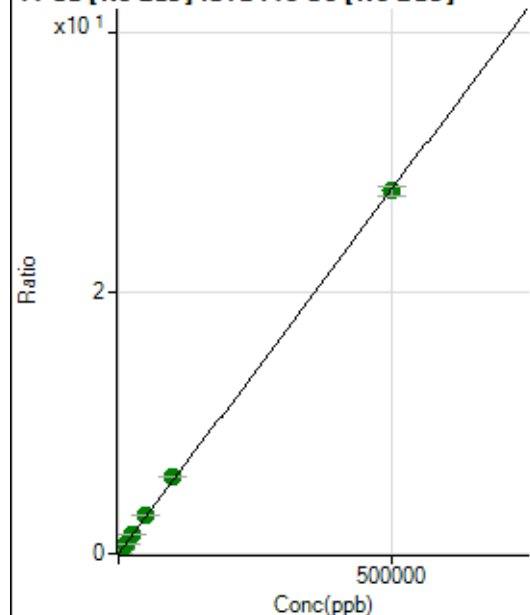
$$R = 0.9996$$

$$DL = 9.109$$

$$BEC = 40.67$$

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	56838.52	0.0054	P	2.5
2	☐	500.000	477.442	339999.53	0.0320	P	1.2
3	☐	5000.000	5359.009	3211585.51	0.3045	A	1.7
4	☐	12500.000	13781.555	7902179.88	0.7746	A	3.6
5	☐	25000.000	27041.678	15563507.55	1.5148	A	0.4
6	☐	50000.000	53697.308	31534194.81	3.0026	A	0.1
7	☐	100000.00	105686.03	62437272.96	5.9044	A	1.3
8	☐	500000.00	498355.37	275169233.6	27.8220	A	2.9

$$y = 5.5817\text{E-}005 * x + 0.0054$$

$$R = 0.9999$$

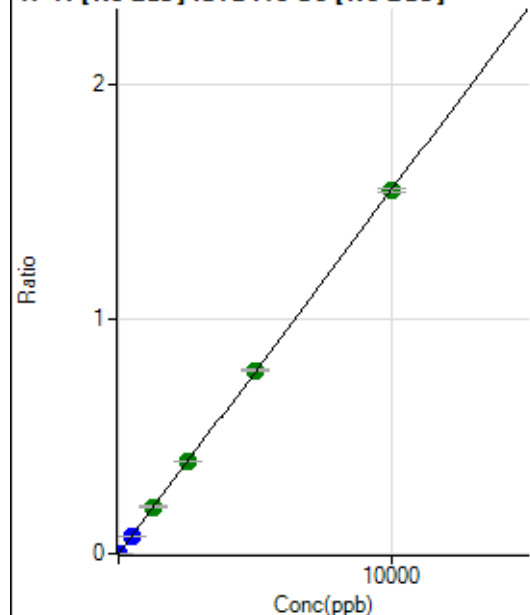
$$DL = 7.236$$

$$BEC = 96.22$$

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	520.55	0.0000	P	79.7
2	☐	5.000	4.580	8073.34	0.0008	P	2.9
3	☐	500.000	482.176	790721.15	0.0750	P	0.6
4	☐	1250.000	1292.664	2049495.61	0.2009	A	3.3
5	☐	2500.000	2533.249	4044383.10	0.3936	A	0.3
6	☐	5000.000	5028.875	8206119.53	0.7814	A	0.9
7	☐	10000.000	9972.809	16385367.26	1.5495	A	1.0
8	☐			3786.07	0.0004	P	19.1

$$y = 1.5537\text{E-}004 * x + 4.8762\text{E-}005$$

$$R = 1.0000$$

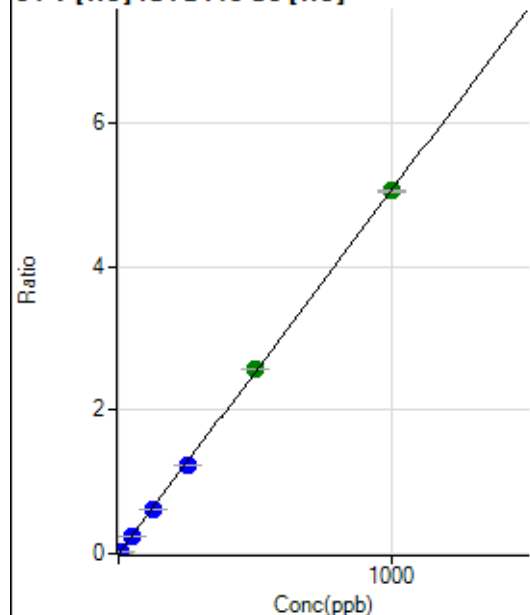
$$DL = 0.7502$$

$$BEC = 0.3139$$

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	93.33	0.0001	P	4.2
2	☐	5.000	4.705	20993.59	0.0240	P	2.3
3	☐	50.000	48.653	213310.39	0.2467	P	1.3
4	☐	125.000	121.978	525721.87	0.6182	P	0.4
5	☐	250.000	243.291	1039326.03	1.2330	P	0.6
6	☐	500.000	507.661	2159421.49	2.5726	A	0.8
7	☐	1000.000	998.293	4282017.61	5.0589	A	0.8
8	☐			1585.65	0.0020	P	2.6

$$y = 0.0051 * x + 1.0667\text{E-}004$$

$$R = 0.9999$$

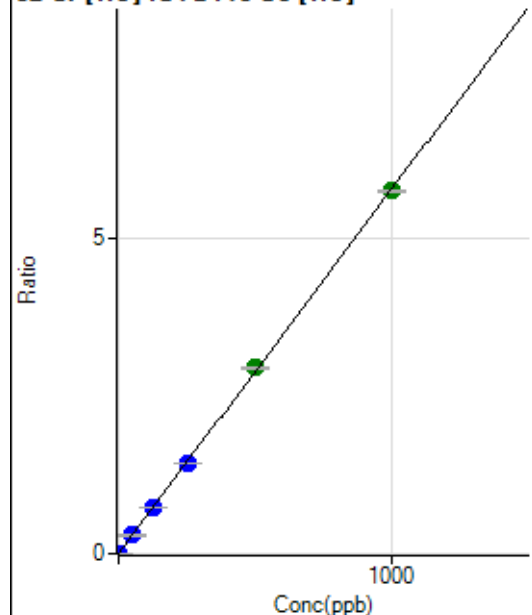
$$DL = 0.002671$$

$$BEC = 0.02105$$

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	2503.57	0.0029	P	2.6
2	☐	2.000	2.053	12922.29	0.0147	P	0.6
3	☐	50.000	49.803	251742.46	0.2911	P	1.3
4	☐	125.000	124.633	615801.48	0.7242	P	0.8
5	☐	250.000	248.226	1213375.45	1.4394	P	0.5
6	☐	500.000	509.294	2476294.98	2.9503	A	1.7
7	☐	1000.000	995.852	4880734.33	5.7662	A	0.4
8	☐			17744.97	0.0221	P	1.4

$$y = 0.0058 * x + 0.0029$$

$$R = 0.9999$$

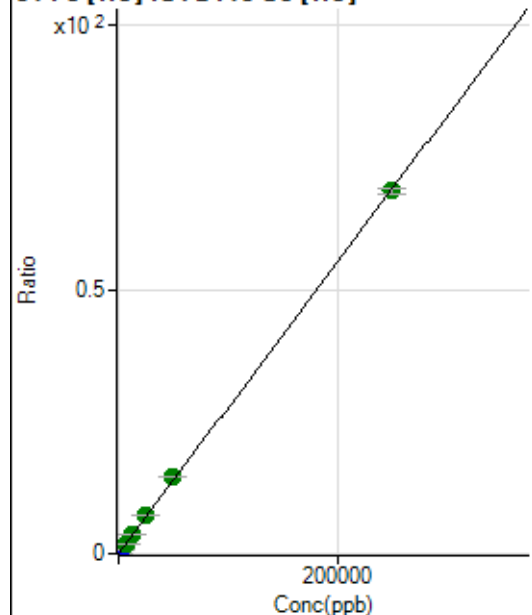
$$DL = 0.0383$$

$$BEC = 0.4944$$

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	2615.81	0.0030	P	1.7
2	☐	50.000	55.057	15926.29	0.0182	P	0.5
3	☐	2500.000	2756.613	659851.18	0.7630	P	0.5
4	☐	6250.000	6739.515	1582487.58	1.8610	A	1.3
5	☐	12500.000	13275.410	3087574.67	3.6628	A	0.8
6	☐	25000.000	26693.256	6179819.70	7.3620	A	0.4
7	☐	50000.000	52745.521	12310663.43	14.5442	A	0.9
8	☐	250000.00	249227.99	55175796.96	68.7119	A	1.4

$$y = 2.7569E-004 * x + 0.0030$$

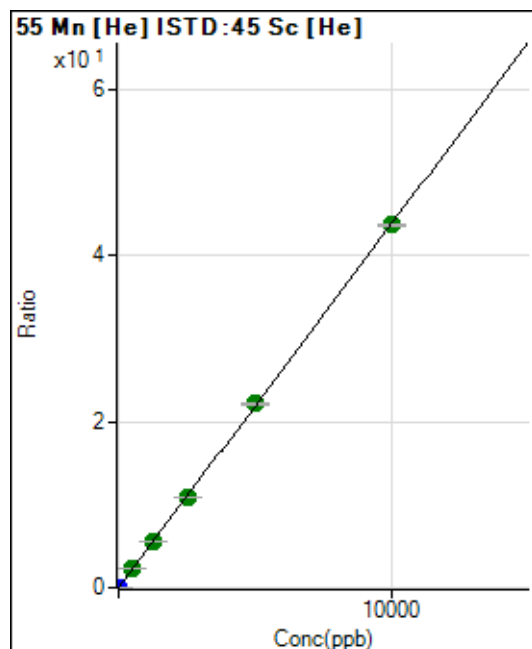
$$R = 0.9999$$

$$DL = 0.5639$$

$$BEC = 10.84$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	782.25	0.0009	P	8.3
2	☐	1.000	1.036	4757.46	0.0054	P	2.4
3	☐	500.000	503.569	1906469.33	2.2043	A	0.0
4	☐	1250.000	1251.684	4658153.89	5.4777	A	0.8
5	☐	2500.000	2478.766	9143393.61	10.8470	A	0.7
6	☐	5000.000	5059.970	18584549.17	22.1413	A	1.2
7	☐	10000.000	9974.935	36944547.23	43.6471	A	0.3
8	☐			19035.47	0.0237	P	1.0

$$y = 0.0044 * x + 8.9370E-004$$

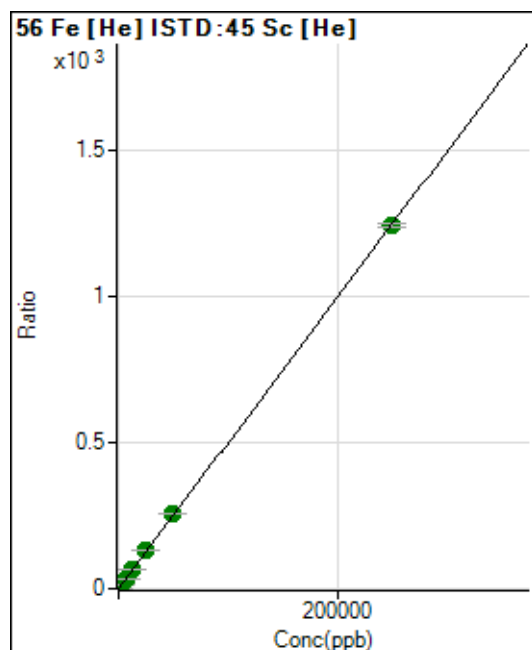
$$R = 1.0000$$

$$DL = 0.05093$$

$$BEC = 0.2042$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19754.21	0.0226	P	0.6
2	☐	50.000	53.099	250978.03	0.2863	P	0.8
3	☐	2500.000	2649.801	11401881.64	13.1836	A	0.9
4	☐	6250.000	6577.694	27801553.20	32.6926	A	0.2
5	☐	12500.000	13058.212	54690904.19	64.8800	A	0.8
6	☐	25000.000	26514.182	110560256.1	131.7129	A	0.5
7	☐	50000.000	52057.236	218872201.1	258.5799	A	0.1
8	☐	250000.00	249399.53	994728954.0	1,238.737	A	1.0

$$y = 0.0050 * x + 0.0226$$

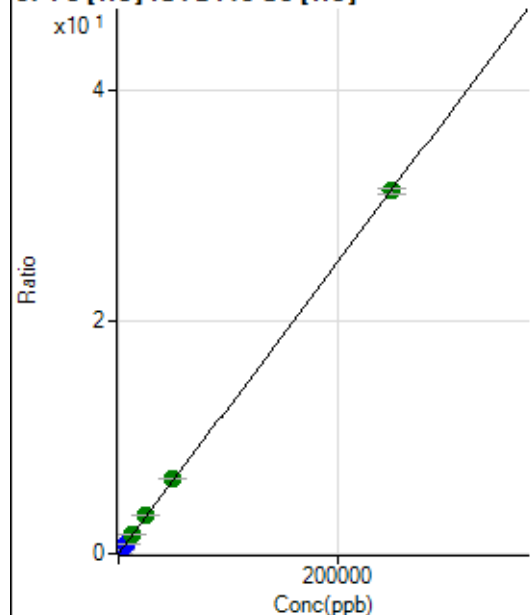
$$R = 1.0000$$

$$DL = 0.07979$$

$$BEC = 4.545$$

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	1090.05	0.0012	P	1.9
2	☐	50.000	54.222	7056.16	0.0080	P	0.7
3	☐	2500.000	2718.159	296023.25	0.3423	P	1.5
4	☐	6250.000	6739.437	720146.98	0.8468	P	0.3
5	☐	12500.000	13135.884	1390365.37	1.6494	A	1.5
6	☐	25000.000	26552.327	2797585.96	3.3328	A	0.6
7	☐	50000.000	51532.374	5473961.93	6.4671	A	1.0
8	☐	250000.00	249492.08	25138247.68	31.3053	A	1.3

$$y = 1.2547\text{E-}004 * x + 0.0012$$

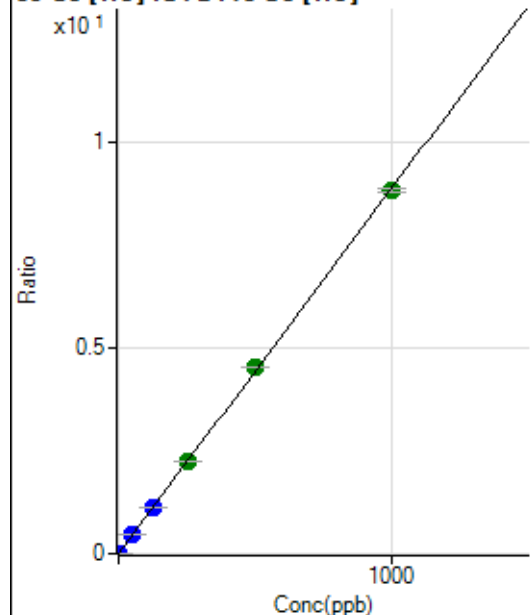
$$R = 1.0000$$

$$DL = 0.569$$

$$BEC = 9.928$$

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	394.45	0.0005	P	3.7
2	☐	1.000	0.984	8045.55	0.0092	P	2.1
3	☐	50.000	50.449	387251.87	0.4478	P	0.7
4	☐	125.000	125.659	947856.70	1.1146	P	0.6
5	☐	250.000	254.346	1901405.98	2.2557	A	0.8
6	☐	500.000	510.419	3799306.40	4.5262	A	0.4
7	☐	1000.000	993.599	7457442.25	8.8104	A	0.9
8	☐			13851.00	0.0172	P	3.5

$$y = 0.0089 * x + 4.5083\text{E-}004$$

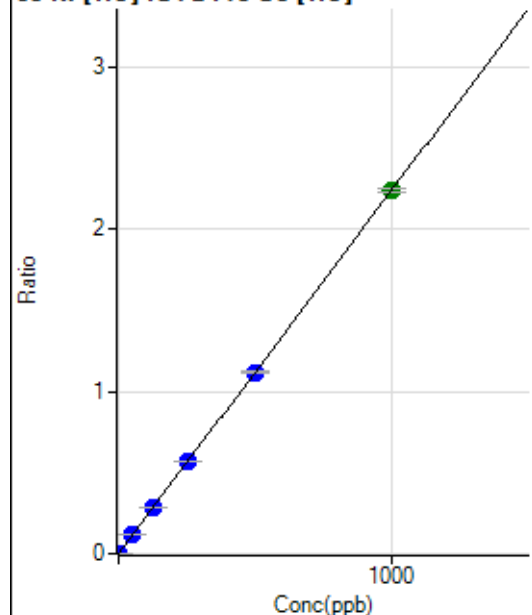
$$R = 0.9999$$

$$DL = 0.005594$$

$$BEC = 0.05085$$

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	373.34	0.0004	P	4.7
2	☐	1.000	1.022	2379.10	0.0027	P	3.5
3	☐	50.000	51.384	99904.09	0.1155	P	0.8
4	☐	125.000	128.230	244594.76	0.2876	P	0.8
5	☐	250.000	252.294	476699.80	0.5655	P	0.3
6	☐	500.000	499.875	940154.65	1.1200	P	0.6
7	☐	1000.000	999.016	1894364.77	2.2380	A	1.0
8	☐			5871.21	0.0073	P	0.7

$$y = 0.0022 * x + 4.2668E-004$$

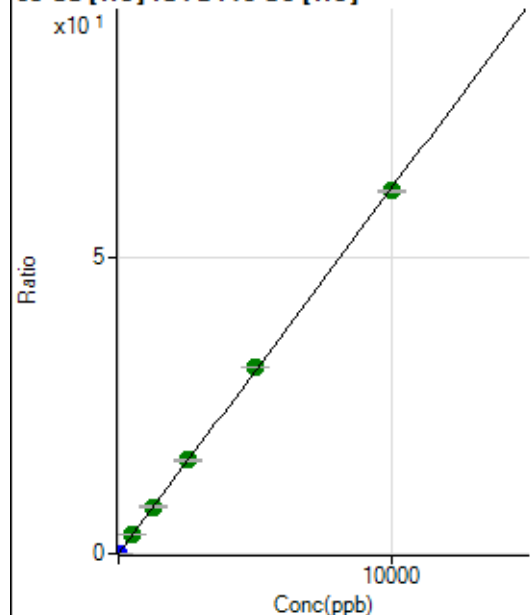
$$R = 1.0000$$

$$DL = 0.02697$$

$$BEC = 0.1905$$

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	2496.90	0.0029	P	2.9
2	☐	2.000	2.015	13366.06	0.0152	P	1.5
3	☐	500.000	528.300	2812390.38	3.2521	A	2.0
4	☐	1250.000	1287.288	6735247.19	7.9202	A	0.3
5	☐	2500.000	2553.985	13243506.06	15.7110	A	0.7
6	☐	5000.000	5104.497	26354908.77	31.3978	A	0.8
7	☐	10000.000	9928.180	51688180.90	61.0655	A	0.6
8	☐			14430.09	0.0180	P	13.7

$$y = 0.0062 * x + 0.0029$$

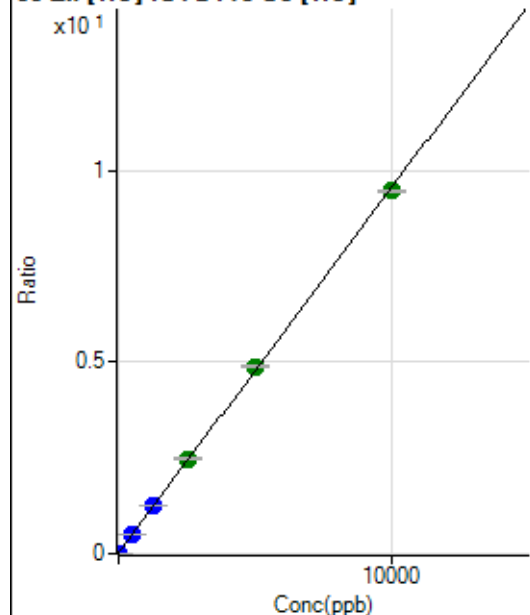
$$R = 0.9999$$

$$DL = 0.0407$$

$$BEC = 0.464$$

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	16860.72	0.0193	P	2.4
2	☐	2.000	2.435	18925.45	0.0216	P	0.3
3	☐	500.000	522.106	447332.24	0.5173	P	1.6
4	☐	1250.000	1290.940	1063489.67	1.2506	P	0.4
5	☐	2500.000	2583.003	2092966.46	2.4830	A	1.3
6	☐	5000.000	5113.554	4110178.90	4.8966	A	0.7
7	☐	10000.000	9916.250	8022173.42	9.4775	A	0.8
8	☐			20836.89	0.0259	P	2.5

$$y = 9.5381\text{E-}004 * x + 0.0193$$

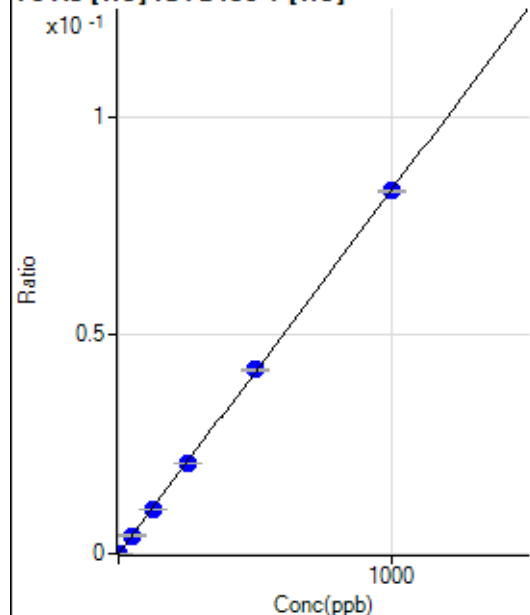
$$R = 0.9999$$

$$DL = 1.475$$

$$BEC = 20.2$$

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	16.67	0.0000	P	20.7
2	☐	1.000	1.071	616.69	0.0001	P	12.4
3	☐	50.000	49.439	27521.13	0.0041	P	4.6
4	☐	125.000	122.697	67895.37	0.0102	P	1.8
5	☐	250.000	247.559	136127.55	0.0206	P	1.2
6	☐	500.000	505.854	274387.05	0.0421	P	0.4
7	☐	1000.000	997.999	547651.84	0.0830	P	0.7
8	☐			178.89	0.0000	P	22.4

$$y = 8.3179\text{E-}005 * x + 2.5014\text{E-}006$$

$$R = 1.0000$$

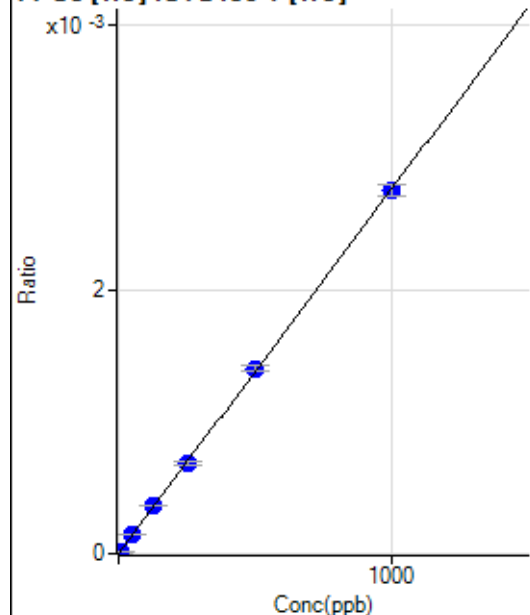
$$DL = 0.01868$$

$$BEC = 0.03007$$

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	3.33	0.0000	P	173.
2	☐	5.000	3.994	77.78	0.0000	P	19.9
3	☐	50.000	51.207	947.82	0.0001	P	2.8
4	☐	125.000	131.136	2408.00	0.0004	P	1.3
5	☐	250.000	247.276	4509.62	0.0007	P	3.4
6	☐	500.000	508.663	9146.23	0.0014	P	3.5
7	☐	1000.000	995.527	18106.73	0.0027	P	3.2
8	☐			117.78	0.0000	P	10.0

$$y = 2.7568\text{E-}006 * x + 5.0548\text{E-}007$$

R = 0.9999

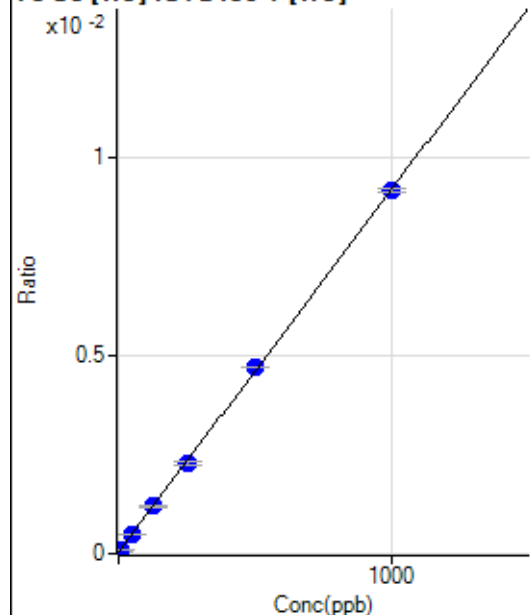
DL = 0.9528

BEC = 0.1834

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	261.11	0.0000	P	4.7
2	☐	5.000	4.741	556.68	0.0001	P	5.6
3	☐	50.000	50.337	3352.64	0.0005	P	1.2
4	☐	125.000	125.882	7941.09	0.0012	P	2.7
5	☐	250.000	245.634	15154.54	0.0023	P	3.0
6	☐	500.000	509.097	30710.80	0.0047	P	0.3
7	☐	1000.000	996.417	60561.05	0.0092	P	1.1
8	☐			590.02	0.0001	P	4.6

$$y = 9.1740\text{E-}006 * x + 3.9166\text{E-}005$$

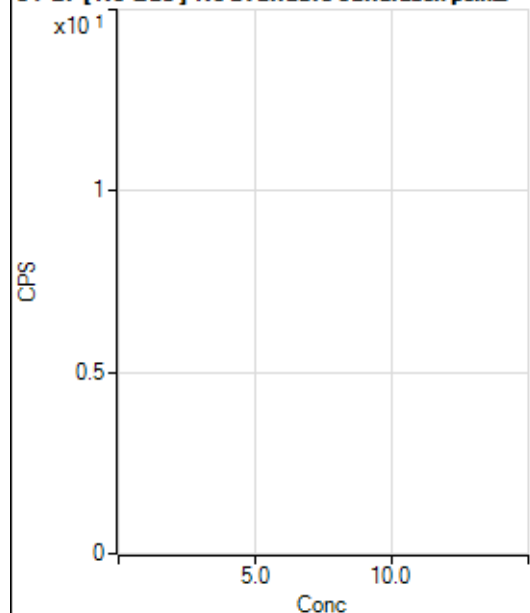
R = 0.9999

DL = 0.5957

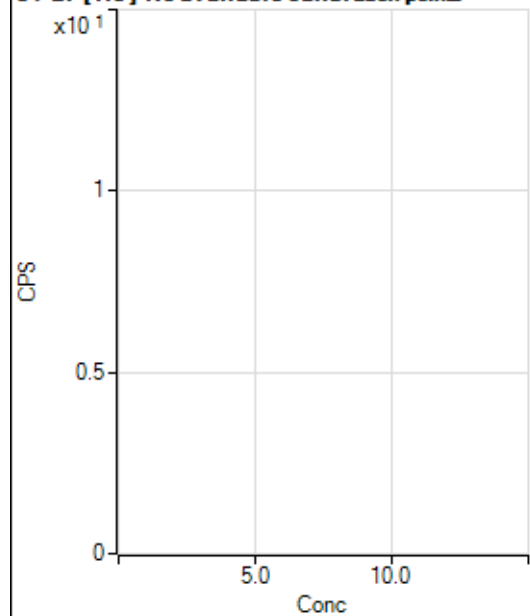
BEC = 4.269

Weight: <None>

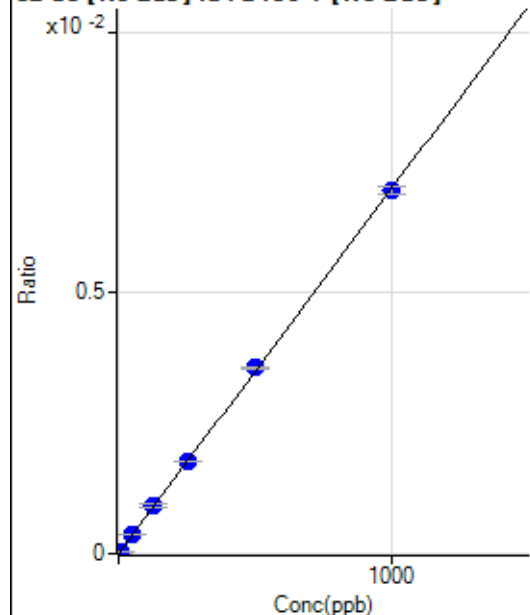
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			28112.43		P	1.2
2	☐			27759.64		P	1.7
3	☐			26912.42		P	0.1
4	☐			26267.99		P	1.5
5	☐			26257.89		P	1.6
6	☐			26466.14		P	1.9
7	☐			26808.98		P	0.3
8	☐			30221.09		P	3.2

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			226.67		P	10.3
2	☐			261.12		P	11.9
3	☐			232.23		P	3.6
4	☐			202.22		P	8.3
5	☐			213.34		P	14.1
6	☐			192.23		P	18.7
7	☐			252.23		P	14.5
8	☐			1052.27		P	8.7

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.99	0.0000	P	129.
2	☐	5.000	5.042	1029.48	0.0000	P	5.1
3	☐	50.000	51.291	10291.90	0.0004	P	2.8
4	☐	125.000	131.861	25556.36	0.0009	P	5.1
5	☐	250.000	252.922	50485.59	0.0018	P	1.2
6	☐	500.000	508.567	102916.97	0.0036	P	0.7
7	☐	1000.000	994.063	204565.81	0.0070	P	1.9
8	☐			1175.67	0.0000	P	2.4

$$y = 6.9963E-006 * x + 5.9529E-007$$

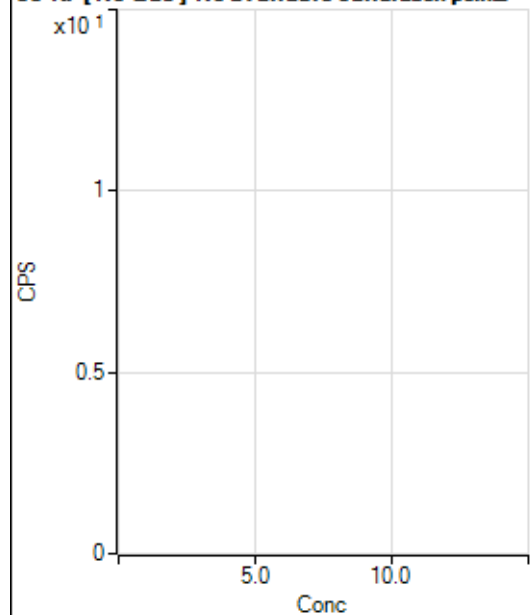
$$R = 0.9999$$

$$DL = 0.3305$$

$$BEC = 0.08509$$

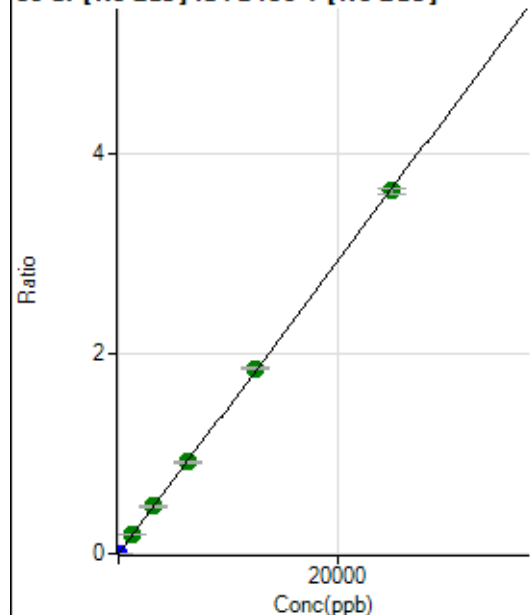
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			190.01		P	21.3
2	☐			172.22		P	7.8
3	☐			178.89		P	16.3
4	☐			147.78		P	23.7
5	☐			162.23		P	7.8
6	☐			205.56		P	10.8
7	☐			202.23		P	14.0
8	☐			276.67		P	7.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	323.34	0.0000	P	5.4
2	☐	1.000	0.945	4291.78	0.0001	P	6.4
3	☐	1250.000	1274.943	5335299.92	0.1863	A	1.8
4	☐	3125.000	3274.475	13247172.72	0.4785	A	4.9
5	☐	6250.000	6296.449	26240869.05	0.9201	A	1.6
6	☐	12500.000	12688.572	53620878.65	1.8541	A	1.0
7	☐	25000.000	24874.170	106902963.9	3.6348	A	1.9
8	☐			18094.10	0.0007	P	26.9

$$y = 1.4613E-004 * x + 1.1498E-005$$

$$R = 0.9999$$

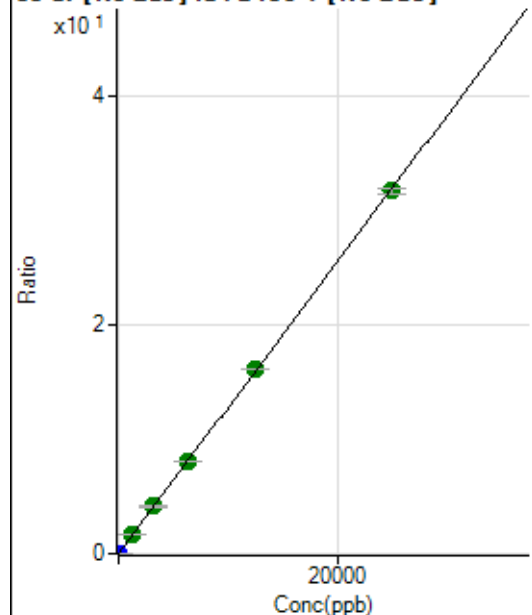
$$DL = 0.01281$$

$$BEC = 0.07869$$

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	326.67	0.0000	P	10.9
2	☐	1.000	0.971	35805.82	0.0012	P	1.3
3	☐	1250.000	1272.385	46364952.09	1.6193	A	2.1
4	☐	3125.000	3250.974	114592743.8	4.1373	A	3.6
5	☐	6250.000	6324.084	229534134.3	8.0482	A	1.5
6	☐	12500.000	12662.218	466027748.6	16.1144	A	0.3
7	☐	25000.000	24883.504	931390635.0	31.6676	A	1.8
8	☐			155612.16	0.0059	P	25.7

$$y = 0.0013 * x + 1.1618E-005$$

$$R = 1.0000$$

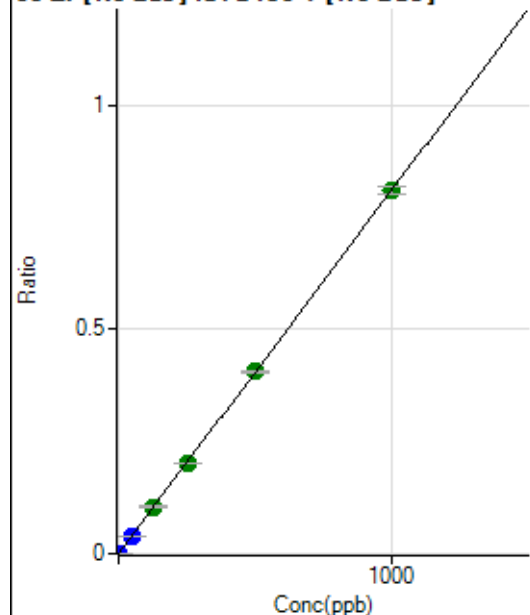
$$DL = 0.002993$$

$$BEC = 0.009129$$

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	1046.72	0.0000	P	4.5
2	☐	1.000	0.889	21712.85	0.0008	P	1.7
3	☐	50.000	48.869	1133627.52	0.0396	P	0.8
4	☐	125.000	129.635	2907602.77	0.1049	A	2.8
5	☐	250.000	249.423	5758715.89	0.2019	A	0.4
6	☐	500.000	501.356	11734840.52	0.4058	A	1.2
7	☐	1000.000	998.944	23777054.65	0.8084	A	2.0
8	☐			11239.98	0.0004	P	7.9

$$y = 8.0926E-004 * x + 3.7178E-005$$

$$R = 1.0000$$

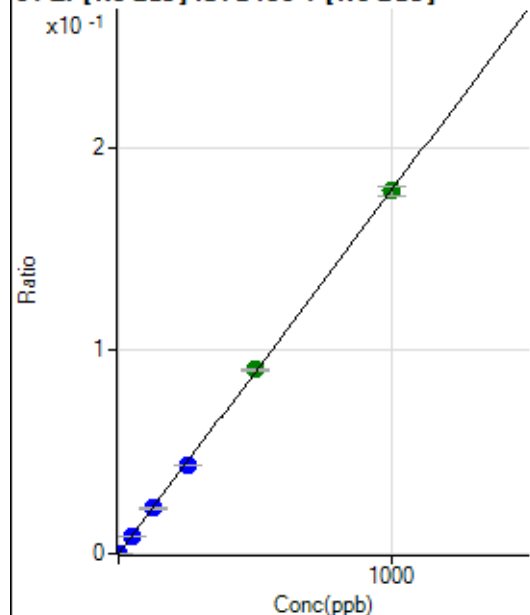
$$DL = 0.006238$$

$$BEC = 0.04594$$

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	183.33	0.0000	P	15.4
2	☐	1.000	0.876	4680.80	0.0002	P	1.3
3	☐	50.000	48.951	250923.59	0.0088	P	0.7
4	☐	125.000	125.720	622774.72	0.0225	P	4.6
5	☐	250.000	242.526	1237453.78	0.0434	P	0.9
6	☐	500.000	506.510	2620231.83	0.0906	A	1.6
7	☐	1000.000	998.576	5253052.66	0.1786	A	2.4
8	☐			2434.67	0.0001	P	8.9

$$y = 1.7886E-004 * x + 6.5014E-006$$

$$R = 0.9999$$

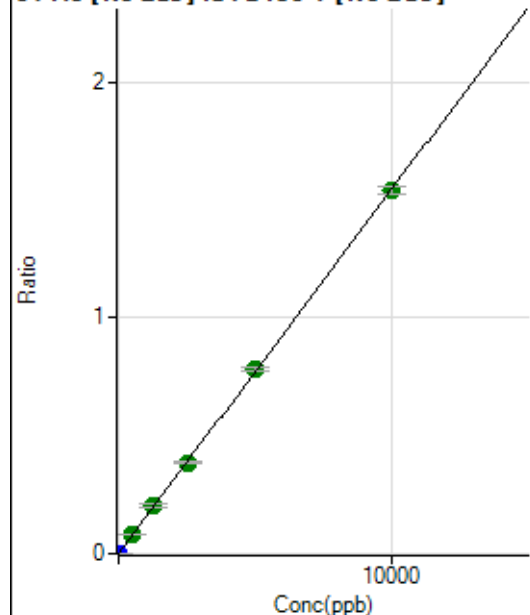
$$DL = 0.01677$$

$$BEC = 0.03635$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	416.68	0.0000	P	2.1
2	☐	5.000	5.599	25264.10	0.0009	P	1.3
3	☐	500.000	510.710	2261196.16	0.0790	A	2.0
4	☐	1250.000	1311.492	5612506.72	0.2028	A	5.6
5	☐	2500.000	2498.294	11016028.17	0.3862	A	1.1
6	☐	5000.000	5063.439	22638226.33	0.7828	A	1.6
7	☐	10000.000	9960.485	45287366.55	1.5399	A	2.3
8	☐			12382.10	0.0005	P	16.0

$$y = 1.5459\text{E-}004 * x + 1.4810\text{E-}005$$

$$R = 1.0000$$

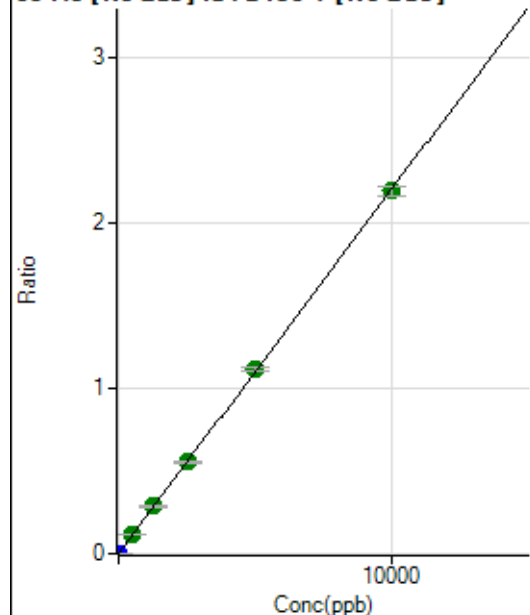
$$DL = 0.005982$$

$$BEC = 0.0958$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	214.45	0.0000	P	5.6
2	☐	5.000	4.869	30952.73	0.0011	P	1.2
3	☐	500.000	506.945	3193203.57	0.1115	A	1.1
4	☐	1250.000	1306.581	7956334.12	0.2874	A	4.9
5	☐	2500.000	2514.329	15772577.54	0.5530	A	1.2
6	☐	5000.000	5058.464	32175765.63	1.1126	A	1.4
7	☐	10000.000	9959.766	64425506.26	2.1906	A	2.4
8	☐			13562.18	0.0005	P	20.9

$$y = 2.1994\text{E-}004 * x + 7.6197\text{E-}006$$

$$R = 1.0000$$

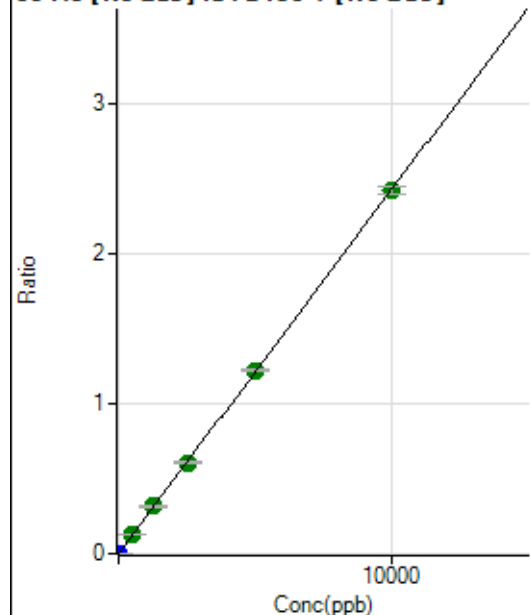
$$DL = 0.005786$$

$$BEC = 0.03464$$

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	255.56	0.0000	P	7.5
2	☐	5.000	4.938	34580.86	0.0012	P	0.3
3	☐	500.000	505.343	3505548.46	0.1224	A	0.5
4	☐	1250.000	1297.876	8704295.49	0.3144	A	4.5
5	☐	2500.000	2501.864	17284067.94	0.6060	A	0.7
6	☐	5000.000	5046.554	35348429.75	1.2223	A	1.8
7	☐	10000.000	9970.006	71021030.05	2.4148	A	2.0
8	☐			30398.58	0.0012	P	8.9

$$y = 2.4220\text{E-}004 * x + 9.0724\text{E-}006$$

$$R = 1.0000$$

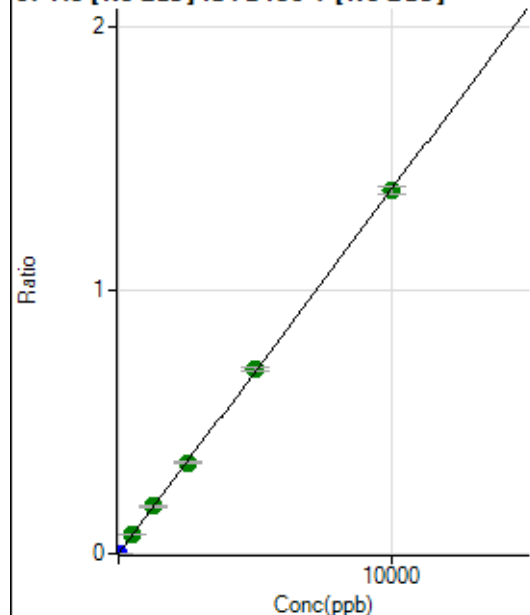
$$DL = 0.00842$$

$$BEC = 0.03746$$

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	112.22	0.0000	P	26.3
2	☐	5.000	4.844	19347.38	0.0007	P	1.6
3	☐	500.000	506.305	2005953.86	0.0700	A	1.4
4	☐	1250.000	1304.794	4997497.67	0.1805	A	5.0
5	☐	2500.000	2504.103	9880609.23	0.3464	A	1.2
6	☐	5000.000	5061.724	20251461.50	0.7003	A	1.8
7	☐	10000.000	9960.948	40529981.34	1.3781	A	2.1
8	☐			8606.00	0.0003	P	18.3

$$y = 1.3835\text{E-}004 * x + 3.9979\text{E-}006$$

$$R = 1.0000$$

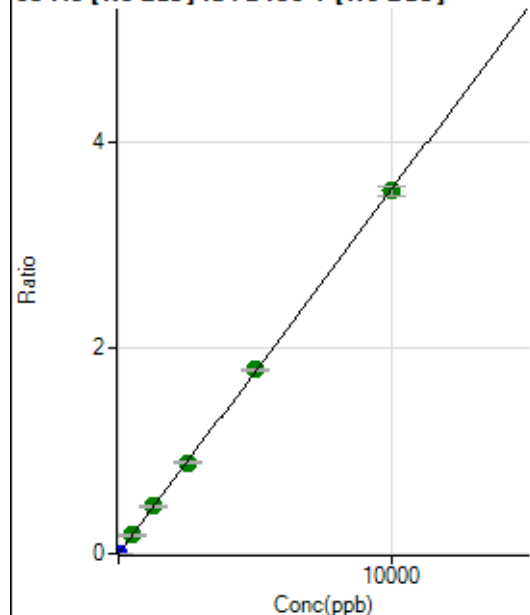
$$DL = 0.02284$$

$$BEC = 0.0289$$

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	268.89	0.0000	P	10.5
2	☐	5.000	4.872	49793.51	0.0017	P	2.1
3	☐	500.000	505.603	5128344.65	0.1791	A	1.7
4	☐	1250.000	1298.948	12735402.03	0.4601	A	5.5
5	☐	2500.000	2505.951	25315892.12	0.8876	A	1.2
6	☐	5000.000	5054.842	51779101.45	1.7904	A	0.8
7	☐	10000.000	9964.693	103804486.2	3.5295	A	2.5
8	☐			21562.31	0.0008	P	23.2

$$y = 3.5420\text{E-}004 * x + 9.5639\text{E-}006$$

$$R = 1.0000$$

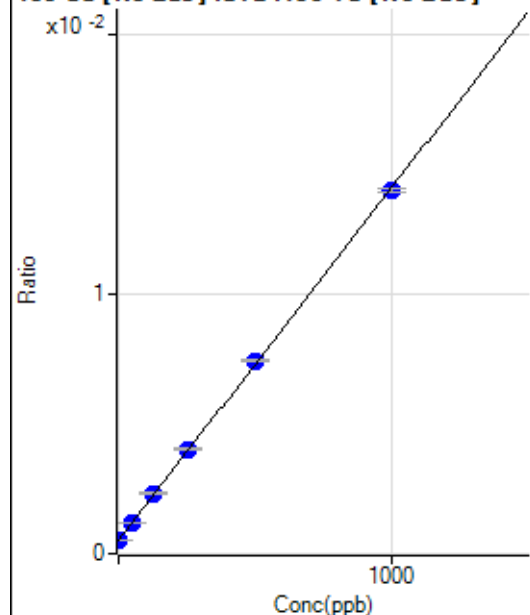
$$DL = 0.008487$$

$$BEC = 0.027$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12442.07	0.0005	P	1.9
2	☐	1.000	0.574	12603.34	0.0005	P	2.6
3	☐	50.000	49.327	29066.91	0.0012	P	0.2
4	☐	125.000	133.870	56598.64	0.0023	P	3.4
5	☐	250.000	259.197	98866.81	0.0040	P	1.2
6	☐	500.000	510.274	187084.78	0.0074	P	0.6
7	☐	1000.000	991.489	356524.77	0.0139	P	1.1
8	☐			11345.64	0.0005	P	0.5

$$y = 1.3556\text{E-}005 * x + 5.0976\text{E-}004$$

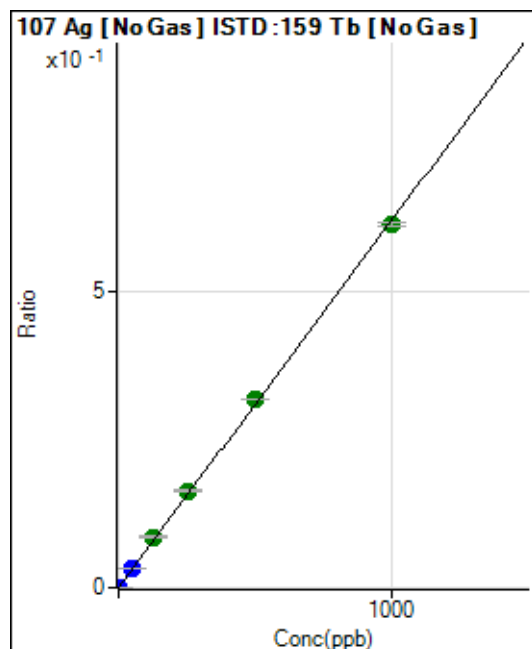
$$R = 0.9998$$

$$DL = 2.162$$

$$BEC = 37.61$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	155.56	0.0000	P	14.6
2	☐	1.000	1.062	16139.07	0.0007	P	2.3
3	☐	50.000	54.117	824621.00	0.0334	P	1.1
4	☐	125.000	136.841	2058220.06	0.0845	A	3.5
5	☐	250.000	262.765	3988281.57	0.1623	A	1.7
6	☐	500.000	512.952	7982096.76	0.3169	A	0.3
7	☐	1000.000	988.647	15608210.32	0.6107	A	0.9
8	☐			5333.27	0.0002	P	16.6

$$y = 6.1771\text{E-}004 * x + 6.3658\text{E-}006$$

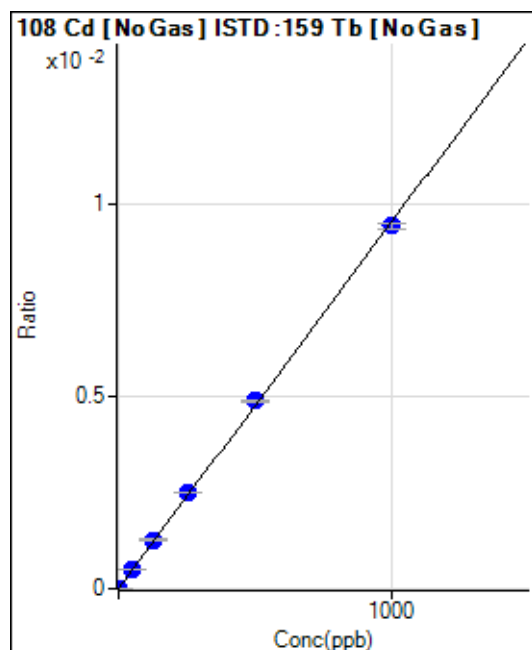
$$R = 0.9997$$

$$DL = 0.004501$$

$$BEC = 0.01031$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	40.00	0.0000	P	65.5
2	☐	1.000	0.879	244.45	0.0000	P	14.1
3	☐	50.000	53.380	12614.48	0.0005	P	3.2
4	☐	125.000	132.995	30983.13	0.0013	P	2.2
5	☐	250.000	261.743	61481.81	0.0025	P	0.9
6	☐	500.000	512.290	123315.52	0.0049	P	0.9
7	☐	1000.000	989.751	241681.09	0.0095	P	1.3
8	☐			188.89	0.0000	P	11.6

$$y = 9.5526\text{E-}006 * x + 1.6374\text{E-}006$$

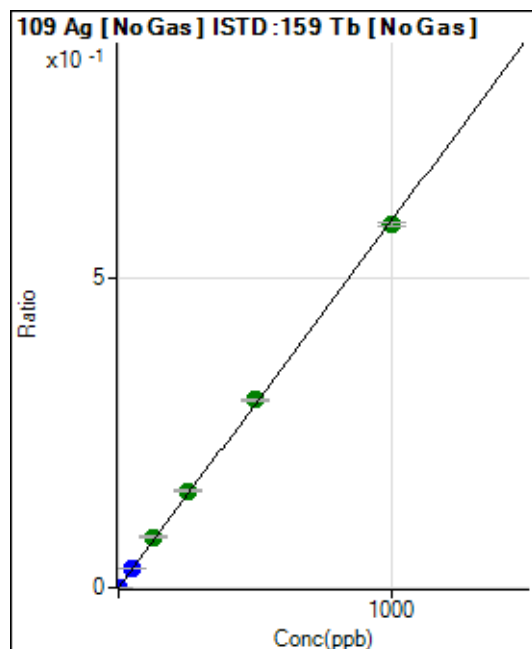
$$R = 0.9998$$

$$DL = 0.3367$$

$$BEC = 0.1714$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.45	0.0000	P	33.7
2	☐	1.000	1.046	15183.62	0.0006	P	3.1
3	☐	50.000	53.955	790785.08	0.0321	P	1.0
4	☐	125.000	137.589	1990636.81	0.0818	A	3.4
5	☐	250.000	263.805	3851478.38	0.1568	A	2.0
6	☐	500.000	512.184	7666877.53	0.3043	A	0.7
7	☐	1000.000	988.685	15014889.08	0.5875	A	1.0
8	☐			4975.37	0.0002	P	15.9

$$y = 5.9420\text{E-}004 * x + 1.8115\text{E-}006$$

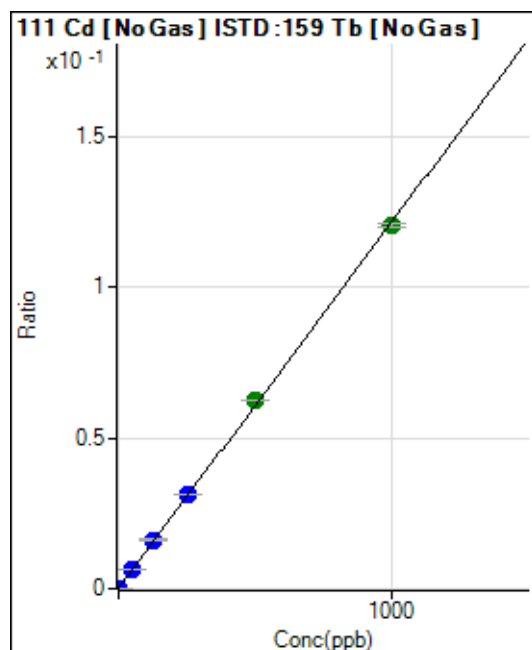
$$R = 0.9997$$

$$DL = 0.003086$$

$$BEC = 0.003049$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2532.64	0.0001	P	1.9
2	☐	1.000	1.057	5656.63	0.0002	P	2.9
3	☐	50.000	52.299	159339.48	0.0065	P	1.2
4	☐	125.000	132.243	393900.79	0.0162	P	3.4
5	☐	250.000	256.883	769747.78	0.0313	P	1.7
6	☐	500.000	513.594	1575208.50	0.0625	A	0.7
7	☐	1000.000	990.462	3079493.69	0.1205	A	1.2
8	☐			3722.56	0.0002	P	3.9

$$y = 1.2155\text{E-}004 * x + 1.0376\text{E-}004$$

$$R = 0.9998$$

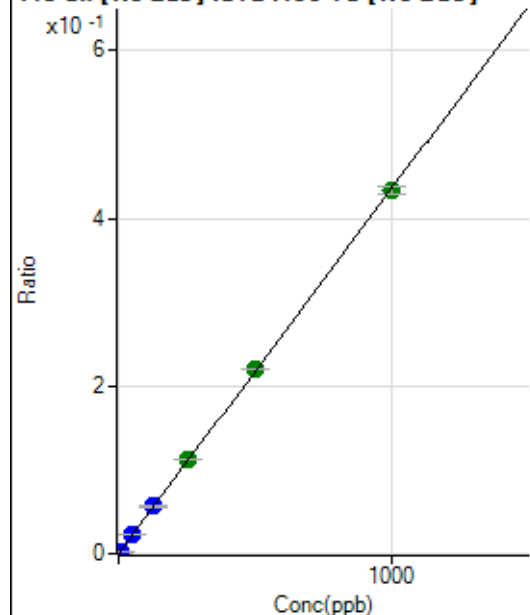
$$DL = 0.04881$$

$$BEC = 0.8537$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1644.55	0.0001	P	3.7
2	☐	5.000	4.908	53647.68	0.0022	P	1.8
3	☐	50.000	51.099	549891.07	0.0223	P	1.5
4	☐	125.000	129.390	1372026.09	0.0564	P	3.9
5	☐	250.000	257.094	2750217.70	0.1119	A	0.6
6	☐	500.000	506.807	5555781.37	0.2205	A	0.3
7	☐	1000.000	994.220	11055431.78	0.4326	A	2.0
8	☐			7673.22	0.0003	P	4.3

$$y = 4.3504\text{E-}004 * x + 6.7389\text{E-}005$$

$$R = 0.9999$$

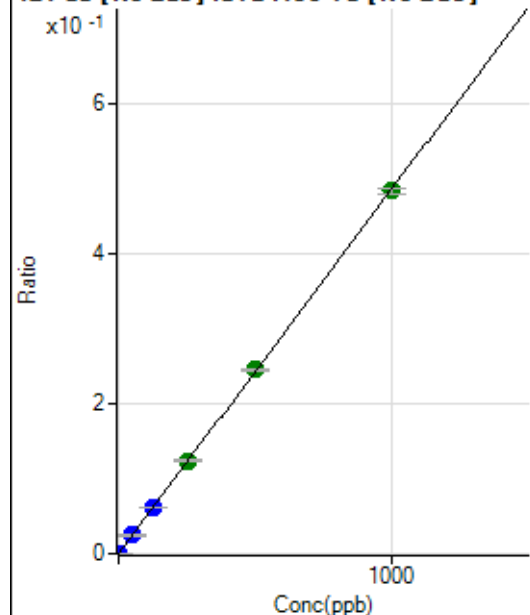
$$DL = 0.01708$$

$$BEC = 0.1549$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	294.45	0.0000	P	13.6
2	☐	2.000	1.952	23360.16	0.0010	P	1.2
3	☐	50.000	50.247	601762.99	0.0244	P	0.6
4	☐	125.000	126.588	1496009.96	0.0614	P	3.7
5	☐	250.000	255.958	3052406.52	0.1242	A	1.8
6	☐	500.000	504.829	6171847.89	0.2450	A	1.0
7	☐	1000.000	995.885	12352433.43	0.4833	A	1.4
8	☐			7963.39	0.0003	P	4.9

$$y = 4.8531\text{E-}004 * x + 1.2051\text{E-}005$$

$$R = 1.0000$$

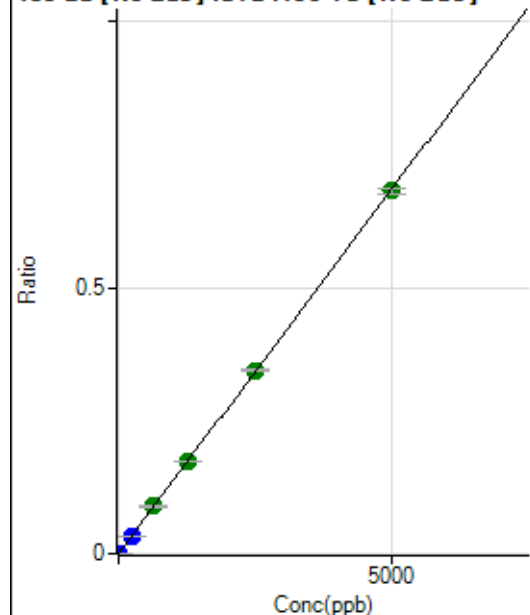
$$DL = 0.01014$$

$$BEC = 0.02483$$

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	165.56	0.0000	P	18.8
2	☐	10.000	9.421	31573.96	0.0013	P	2.2
3	☐	250.000	244.601	826103.04	0.0335	P	0.6
4	☐	625.000	647.076	2156431.27	0.0886	A	4.7
5	☐	1250.000	1269.742	4271922.16	0.1738	A	1.0
6	☐	2500.000	2521.646	8696262.09	0.3452	A	1.1
7	☐	5000.000	4981.753	17430277.10	0.6820	A	1.3
8	☐			10204.89	0.0004	P	8.1

$$y = 1.3690\text{E-}004 * x + 6.7669\text{E-}006$$

$$R = 1.0000$$

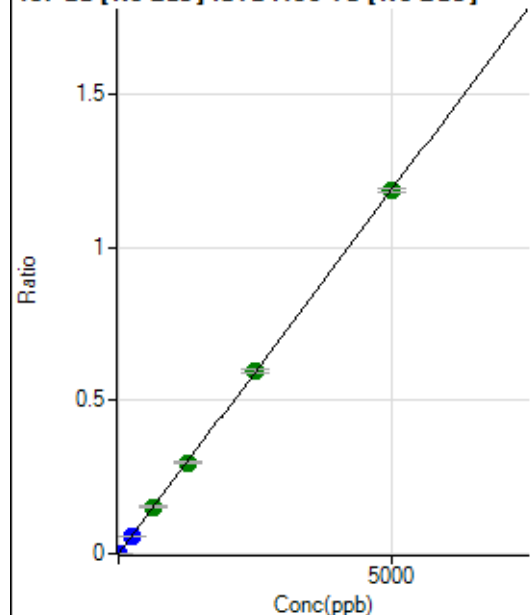
$$DL = 0.02786$$

$$BEC = 0.04943$$

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	308.89	0.0000	P	12.6
2	☐	10.000	9.493	55189.90	0.0023	P	0.7
3	☐	250.000	246.869	1445612.77	0.0586	P	0.9
4	☐	625.000	642.486	3713595.53	0.1525	A	3.8
5	☐	1250.000	1251.957	7302834.54	0.2972	A	1.7
6	☐	2500.000	2517.305	15052795.05	0.5976	A	1.5
7	☐	5000.000	4988.830	30265942.88	1.1842	A	0.9
8	☐			17812.44	0.0008	P	6.8

$$y = 2.3737\text{E-}004 * x + 1.2667\text{E-}005$$

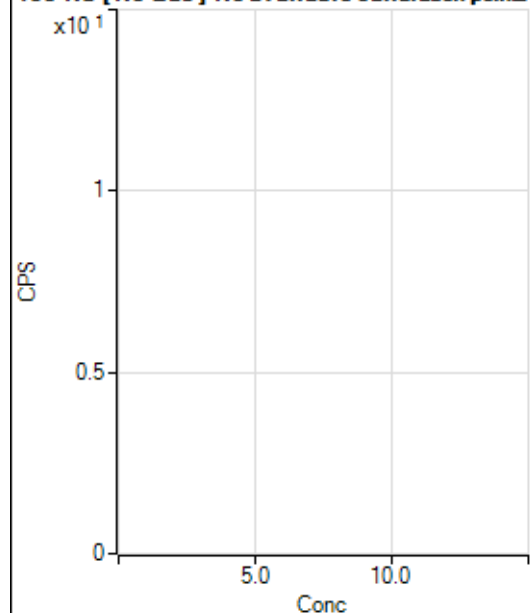
$$R = 1.0000$$

$$DL = 0.02009$$

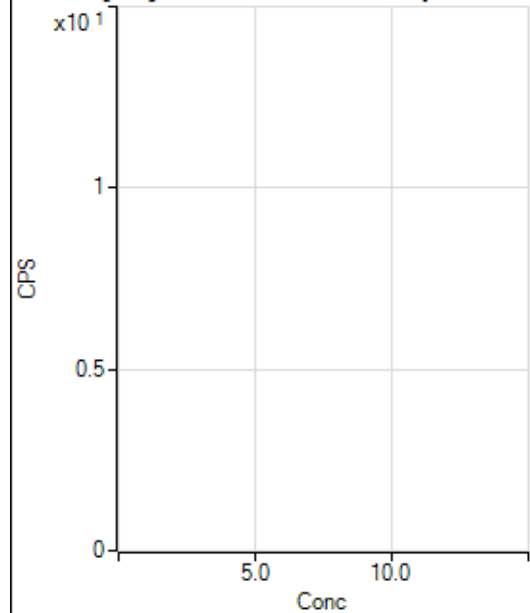
$$BEC = 0.05336$$

Weight: <None>

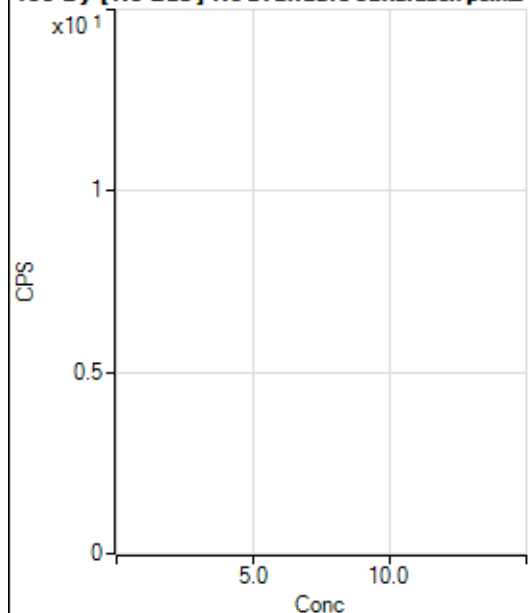
Min Conc: 0

150 Nd [No Gas] No available calibration points

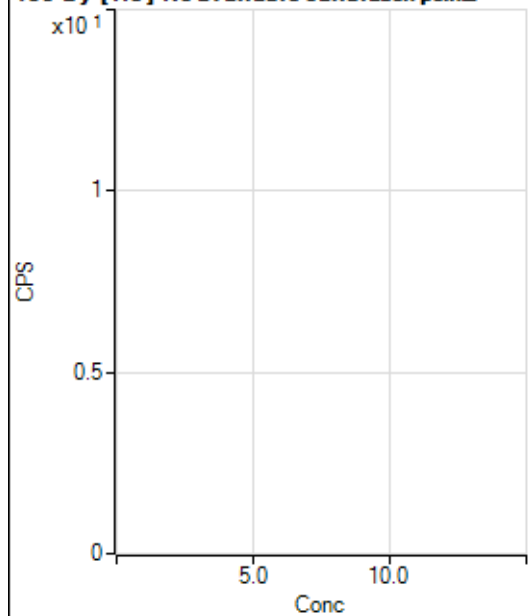
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.22		P	41.7
2	☐			22.22		P	37.8
3	☐			116.67		P	20.0
4	☐			230.01		P	6.3
5	☐			454.46		P	16.3
6	☐			896.70		P	6.3
7	☐			1833.47		P	6.0
8	☐			511.13		P	4.6

150 Nd [He] No available calibration points

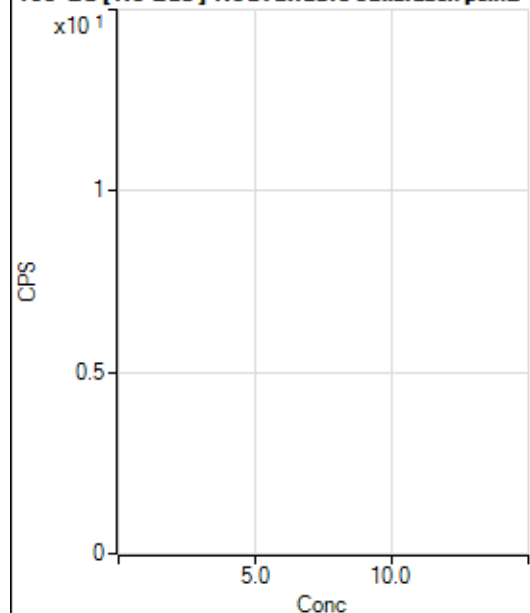
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			14.44		P	58.1
3	☐			32.22		P	29.8
4	☐			70.00		P	8.2
5	☐			115.56		P	31.9
6	☐			220.00		P	3.0
7	☐			476.68		P	13.6
8	☐			270.01		P	9.3

156 Dy [No Gas] No available calibration points

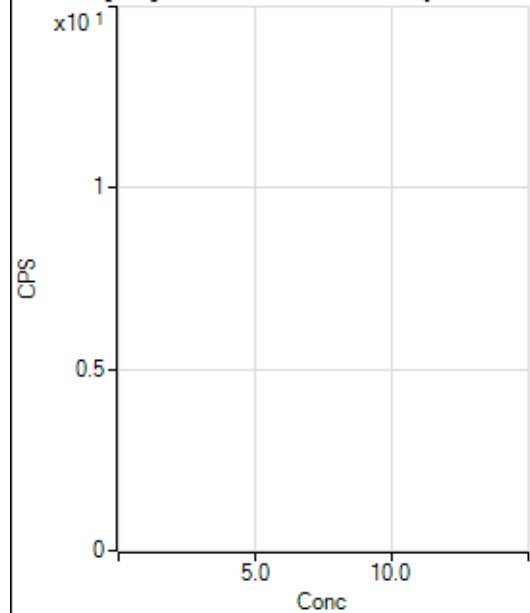
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			31.11		P	12.4
2	☐			43.33		P	20.3
3	☐			74.44		P	28.8
4	☐			171.12		P	2.3
5	☐			305.56		P	9.9
6	☐			545.57		P	13.5
7	☐			1054.50		P	1.5
8	☐			3299.31		P	6.0

156 Dy [He] No available calibration points

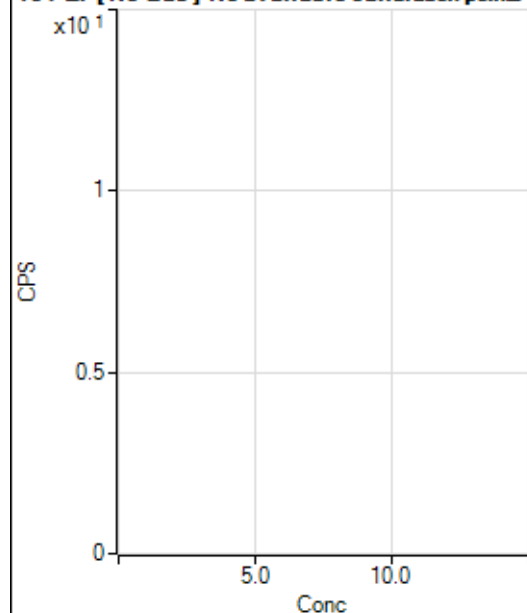
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24.44		P	20.8
2	☐			25.56		P	49.4
3	☐			63.33		P	24.1
4	☐			164.45		P	9.1
5	☐			277.78		P	13.6
6	☐			511.13		P	3.6
7	☐			1023.38		P	6.9
8	☐			2200.20		P	3.8

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

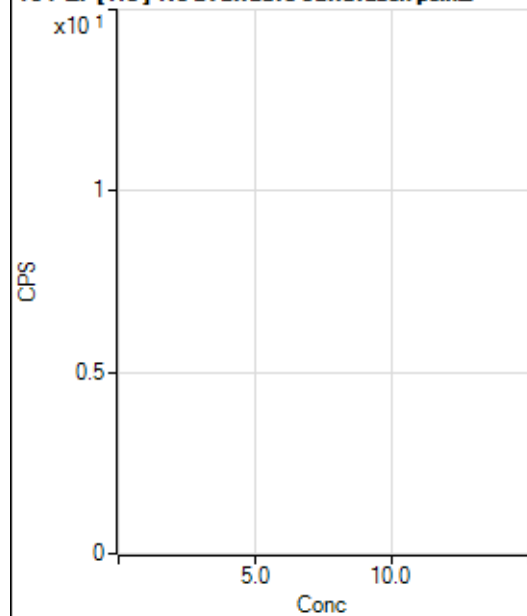
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			184.45		P	13.1
2	☐			151.12		P	13.5
3	☐			224.45		P	14.3
4	☐			250.00		P	2.3
5	☐			380.01		P	8.4
6	☐			558.90		P	6.6
7	☐			1013.38		P	6.8
8	☐			3700.53		P	2.3

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			860.04		P	4.4
2	☐			798.92		P	5.4
3	☐			804.48		P	4.1
4	☐			855.59		P	2.8
5	☐			842.26		P	5.9
6	☐			1127.84		P	4.2
7	☐			1338.97		P	10.5
8	☐			3072.59		P	1.6

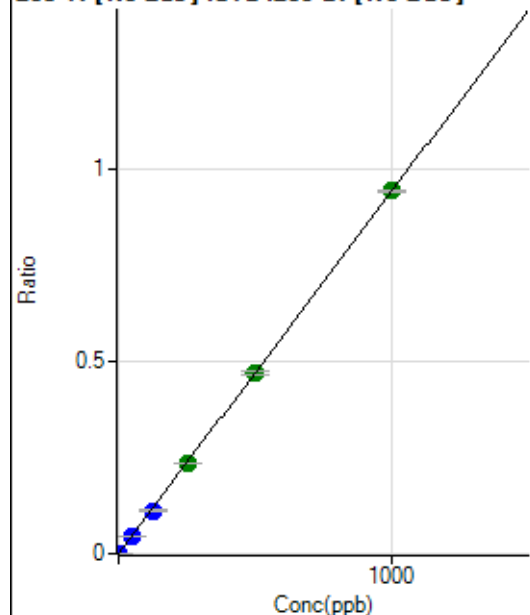
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			126.67		P	2.6
2	☐			160.00		P	21.7
3	☐			185.56		P	14.6
4	☐			187.78		P	9.1
5	☐			205.56		P	2.5
6	☐			316.67		P	10.4
7	☐			462.24		P	10.4
8	☐			502.24		P	4.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			112.23		P	8.6
2	☐			123.34		P	18.9
3	☐			103.33		P	19.6
4	☐			134.45		P	18.9
5	☐			161.11		P	13.8
6	☐			181.11		P	6.5
7	☐			281.12		P	9.2
8	☐			310.01		P	15.2

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	554.46	0.0000	P	6.1
2	☐	1.000	0.893	12374.60	0.0009	P	0.9
3	☐	50.000	46.797	618952.64	0.0441	P	1.4
4	☐	125.000	119.325	1551349.96	0.1123	P	2.5
5	☐	250.000	248.305	3247943.70	0.2336	A	0.9
6	☐	500.000	499.122	6569246.85	0.4695	A	1.5
7	☐	1000.000	1001.732	13126221.89	0.9423	A	0.9
8	☐			3283.78	0.0003	P	20.1

$$y = 9.4062\text{E-}004 * x + 4.0091\text{E-}005$$

$$R = 1.0000$$

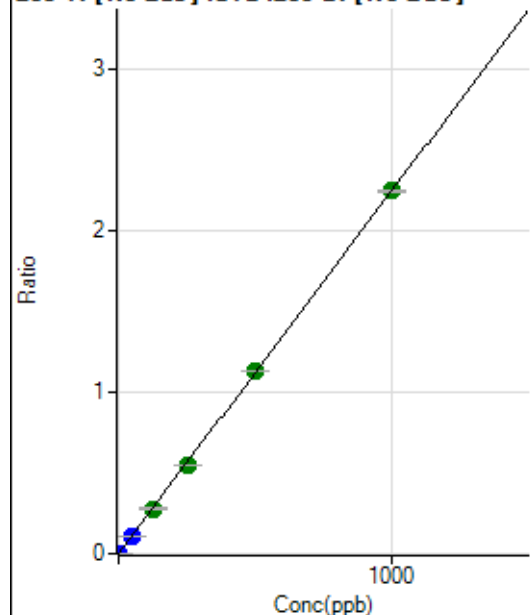
$$DL = 0.007831$$

$$BEC = 0.04262$$

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	1463.43	0.0001	P	6.7
2	☐	1.000	0.874	29127.86	0.0021	P	1.6
3	☐	50.000	46.572	1472428.22	0.1048	P	1.2
4	☐	125.000	124.171	3857892.23	0.2793	A	3.3
5	☐	250.000	244.163	7633682.87	0.5490	A	0.7
6	☐	500.000	502.156	15797331.43	1.1290	A	0.4
7	☐	1000.000	1000.656	31340479.53	2.2498	A	0.6
8	☐			7925.78	0.0007	P	19.2

$$y = 0.0022 * x + 1.0573\text{E-}004$$

$$R = 1.0000$$

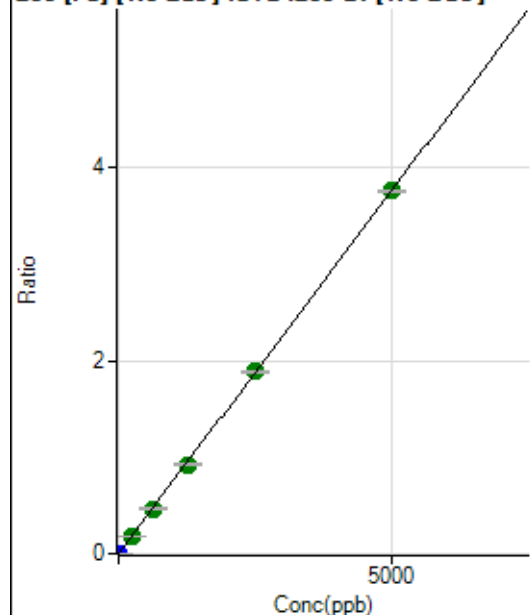
$$DL = 0.009435$$

$$BEC = 0.04703$$

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	1303.41	0.0001	P	7.4
2	☐	1.000	0.911	10950.06	0.0008	P	1.9
3	☐	250.000	245.052	2586093.59	0.1841	A	1.6
4	☐	625.000	622.631	6460097.20	0.4676	A	2.8
5	☐	1250.000	1232.137	12865667.03	0.9252	A	0.6
6	☐	2500.000	2509.071	26360622.38	1.8840	A	0.5
7	☐	5000.000	5000.474	52302920.89	3.7546	A	0.7
8	☐			29757.39	0.0026	P	9.0

$$y = 7.5084\text{E-}004 * x + 9.4226\text{E-}005$$

$$R = 1.0000$$

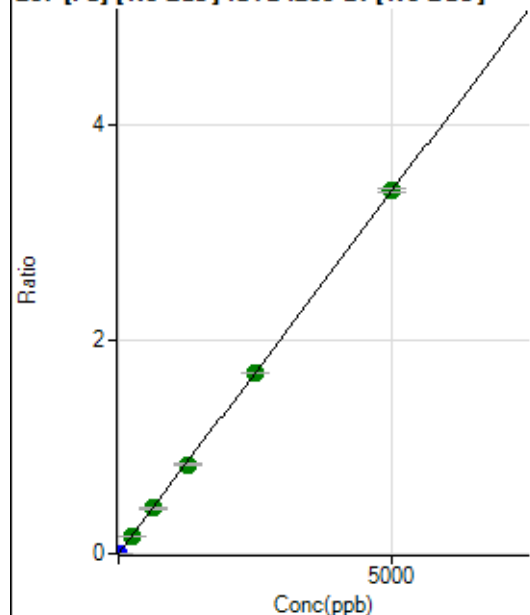
$$DL = 0.02786$$

$$BEC = 0.1255$$

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	1136.73	0.0001	P	5.7
2	☐	1.000	0.900	9729.12	0.0007	P	2.6
3	☐	250.000	245.036	2332295.07	0.1660	A	1.5
4	☐	625.000	628.540	5883195.05	0.4257	A	1.9
5	☐	1250.000	1231.118	11592518.72	0.8338	A	1.8
6	☐	2500.000	2494.214	23633802.98	1.6891	A	0.8
7	☐	5000.000	5007.419	47237110.96	3.3911	A	1.2
8	☐			25800.27	0.0023	P	8.5

$$y = 6.7719\text{E-}004 * x + 8.2198\text{E-}005$$

$$R = 1.0000$$

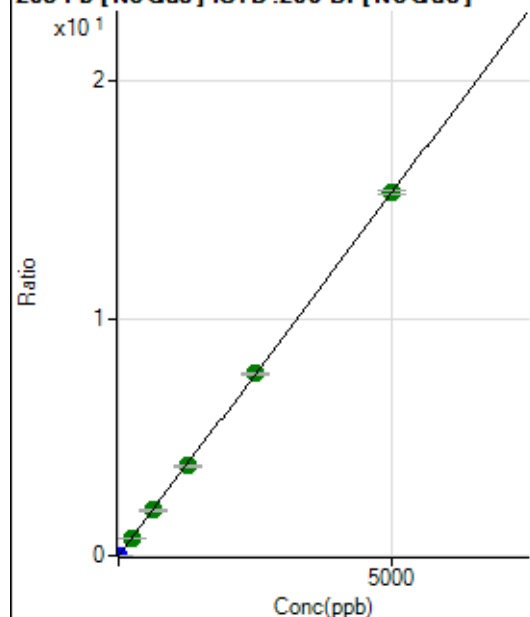
$$DL = 0.02058$$

$$BEC = 0.1214$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5089.31	0.0004	P	0.3
2	☐	1.000	0.902	43938.03	0.0031	P	1.5
3	☐	250.000	246.149	10576703.37	0.7528	A	1.0
4	☐	625.000	628.997	26572196.62	1.9232	A	2.6
5	☐	1250.000	1233.222	52421670.05	3.7703	A	1.1
6	☐	2500.000	2505.996	107191158.9	7.6611	A	1.0
7	☐	5000.000	5000.890	212961045.7	15.2880	A	1.2
8	☐			119153.34	0.0105	P	8.7

$$y = 0.0031 * x + 3.6781E-004$$

$$R = 1.0000$$

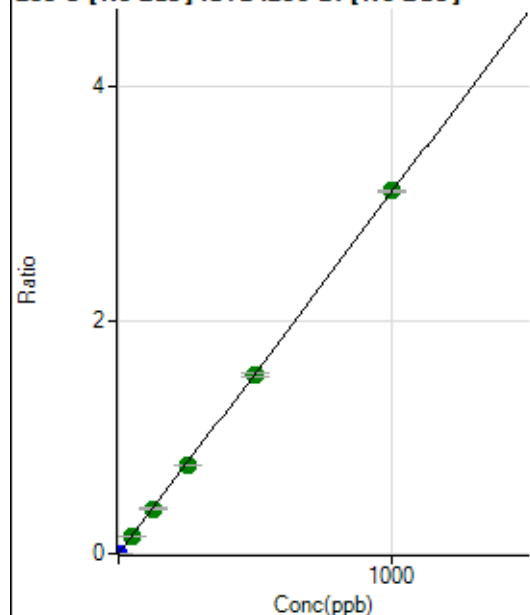
$$DL = 0.0009033$$

$$BEC = 0.1203$$

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	1478.99	0.0001	P	1.5
2	☐	1.000	0.844	38265.93	0.0027	P	0.4
3	☐	50.000	47.736	2077582.63	0.1479	A	2.3
4	☐	125.000	123.272	5272903.78	0.3818	A	4.2
5	☐	250.000	242.880	10457972.62	0.7521	A	0.5
6	☐	500.000	494.907	21440309.26	1.5324	A	1.7
7	☐	1000.000	1004.656	43332688.80	3.1107	A	0.4
8	☐			8174.90	0.0007	P	19.9

$$y = 0.0031 * x + 1.0689E-004$$

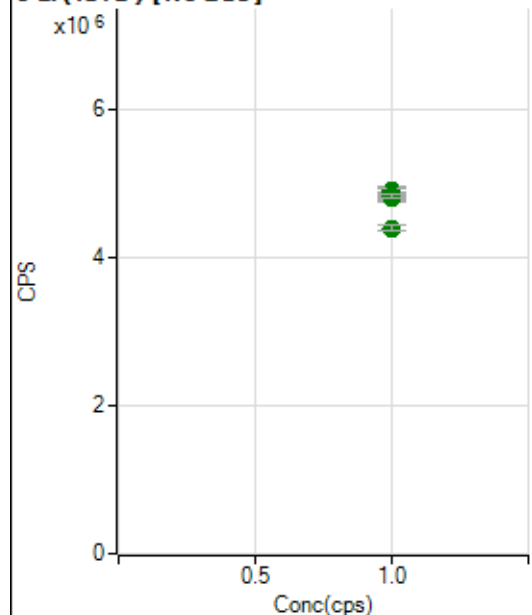
$$R = 1.0000$$

$$DL = 0.0016$$

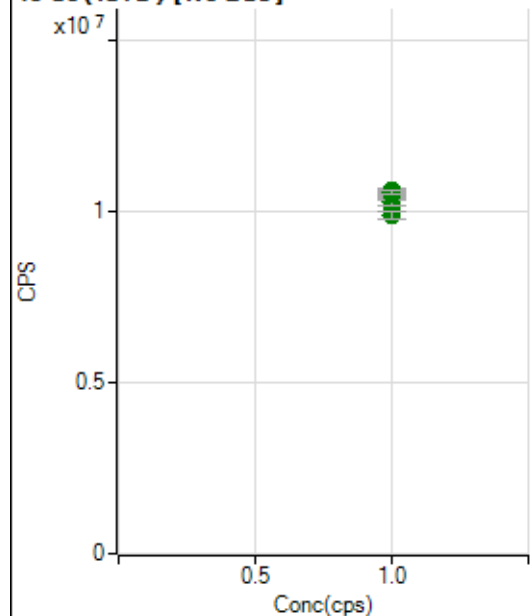
$$BEC = 0.03452$$

Weight: <None>

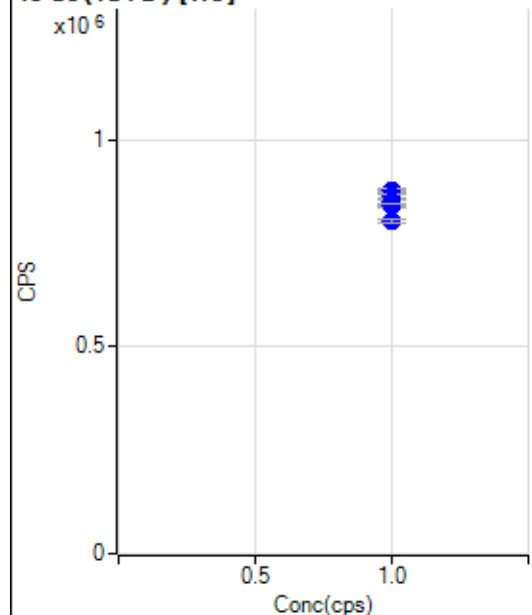
Min Conc: 0

6 Li (ISTD) [No Gas]

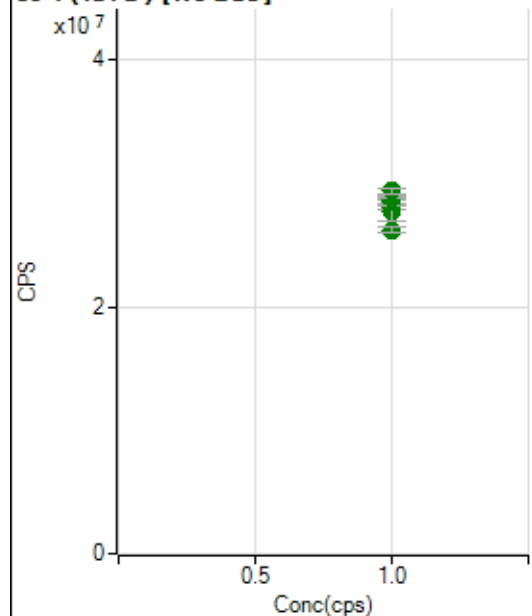
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4795504.23		A	1.2
2	☐	1.000		4804307.53		A	1.4
3	☐	1.000		4850377.74		A	0.9
4	☐	1.000		4902244.23		A	3.0
5	☐	1.000		4859873.92		A	0.8
6	☐	1.000		4881869.72		A	2.0
7	☐	1.000		4826331.98		A	0.9
8	☐	1.000		4396546.95		A	1.9

45 Sc (ISTD) [No Gas]

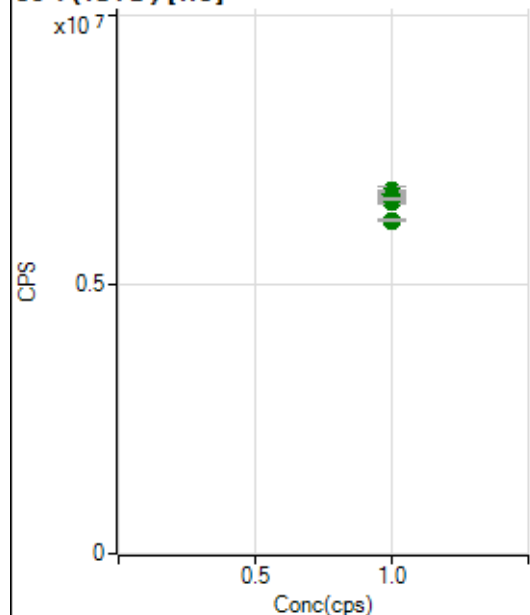
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10586651.93		A	1.9
2	☐	1.000		10618374.98		A	0.2
3	☐	1.000		10548888.87		A	1.7
4	☐	1.000		10211310.26		A	4.1
5	☐	1.000		10274831.09		A	1.4
6	☐	1.000		10502376.37		A	1.0
7	☐	1.000		10575408.17		A	0.9
8	☐	1.000		9894439.57		A	2.2

45 Sc (ISTD) [He]

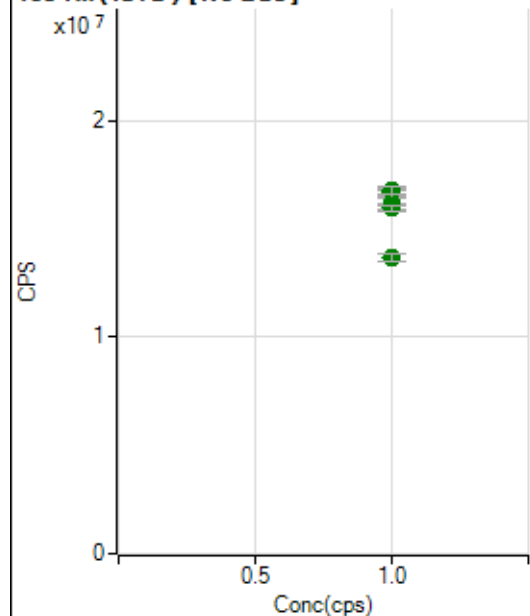
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		875099.60		P	0.8
2	☐	1.000		876662.35		P	1.7
3	☐	1.000		864885.00		P	0.9
4	☐	1.000		850393.92		P	0.6
5	☐	1.000		842962.52		P	0.5
6	☐	1.000		839426.73		P	1.0
7	☐	1.000		846438.70		P	0.2
8	☐	1.000		803070.94		P	1.1

89 Y (ISTD) [No Gas]

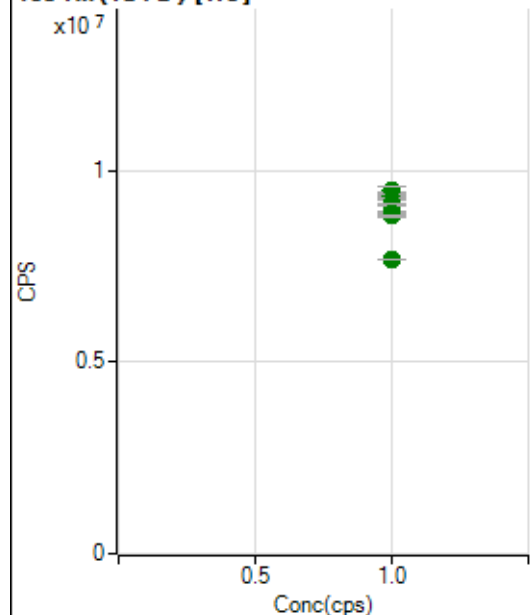
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		28140126.80		A	2.1
2	☐	1.000		28696474.57		A	0.1
3	☐	1.000		28640396.52		A	1.8
4	☐	1.000		27730386.25		A	5.0
5	☐	1.000		28525822.07		A	2.2
6	☐	1.000		28920198.74		A	0.4
7	☐	1.000		29415696.78		A	1.2
8	☐	1.000		26269727.11		A	2.3

89 Y(ISTD) [He]

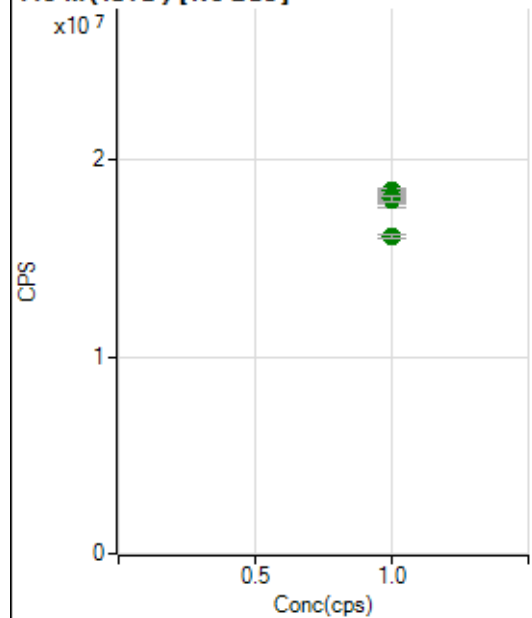
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6668610.18		A	1.1
2	☐	1.000		6737659.97		A	2.0
3	☐	1.000		6692459.97		A	2.0
4	☐	1.000		6652433.10		A	1.8
5	☐	1.000		6610221.92		A	0.6
6	☐	1.000		6520886.85		A	0.8
7	☐	1.000		6597169.28		A	0.6
8	☐	1.000		6195238.17		A	0.2

103 Rh(ISTD) [No Gas]

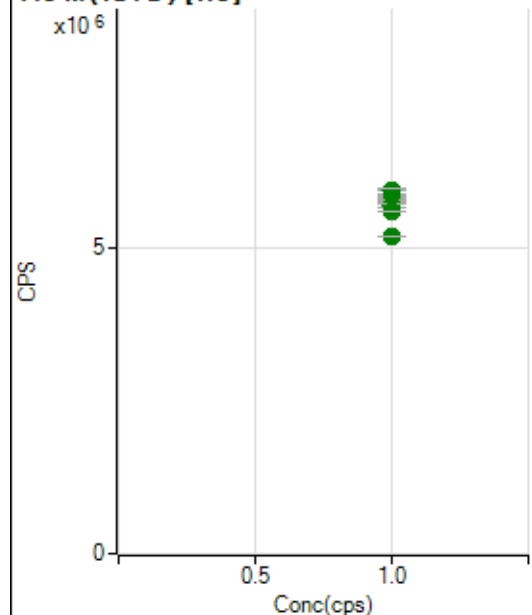
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		16648929.75		A	2.5
2	☐	1.000		16676773.78		A	1.7
3	☐	1.000		16748439.20		A	2.2
4	☐	1.000		16164600.32		A	5.0
5	☐	1.000		15983512.26		A	1.7
6	☐	1.000		16063500.04		A	0.2
7	☐	1.000		15968944.20		A	1.8
8	☐	1.000		13675701.46		A	2.4

103 Rh (ISTD) [He]

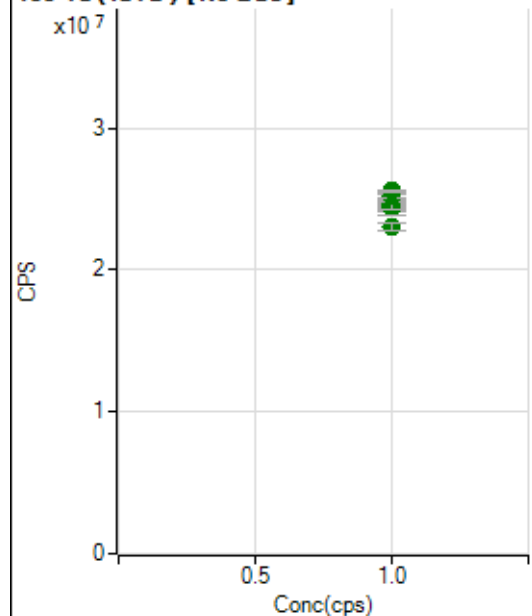
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9392043.05		A	1.2
2	☐	1.000		9467913.40		A	2.2
3	☐	1.000		9326565.21		A	1.0
4	☐	1.000		9246823.13		A	0.6
5	☐	1.000		9111989.80		A	0.9
6	☐	1.000		8906917.92		A	1.1
7	☐	1.000		8810490.63		A	0.8
8	☐	1.000		7682668.85		A	0.3

115 In (ISTD) [No Gas]

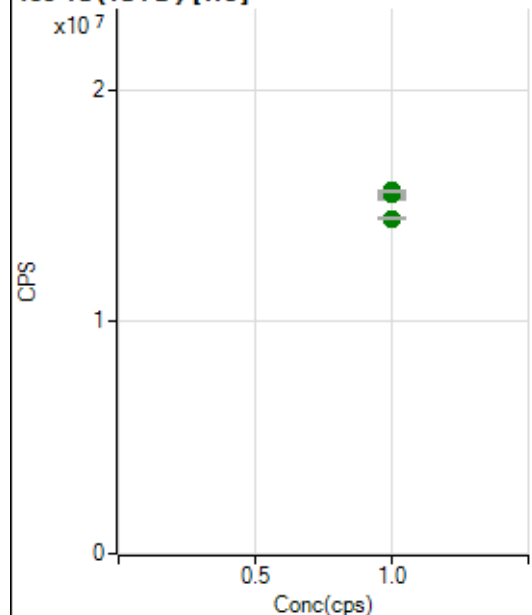
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		18185956.80		A	1.6
2	☐	1.000		18368119.66		A	0.8
3	☐	1.000		18447268.12		A	1.9
4	☐	1.000		17981558.14		A	4.6
5	☐	1.000		18009081.81		A	2.4
6	☐	1.000		18168600.83		A	2.0
7	☐	1.000		18042947.89		A	1.3
8	☐	1.000		16121684.17		A	1.7

115 In (ISTD) [He]

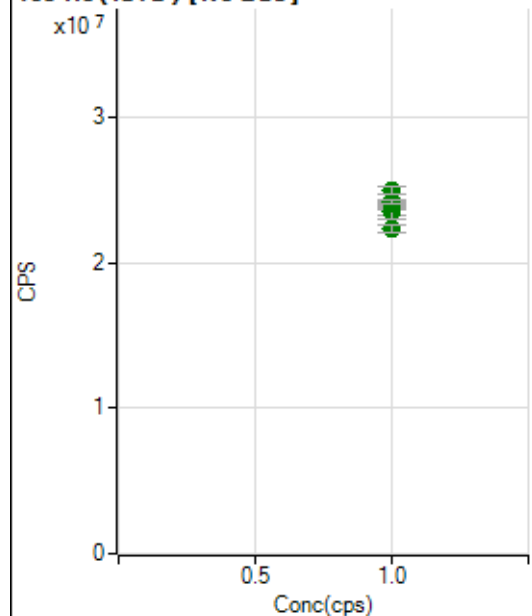
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5885267.38		A	1.6
2	☐	1.000		5935556.45		A	1.8
3	☐	1.000		5832877.62		A	1.1
4	☐	1.000		5801303.25		A	0.2
5	☐	1.000		5776573.01		A	0.9
6	☐	1.000		5688002.48		A	1.2
7	☐	1.000		5595865.88		A	0.3
8	☐	1.000		5192151.82		A	0.5

159 Tb (ISTD) [No Gas]

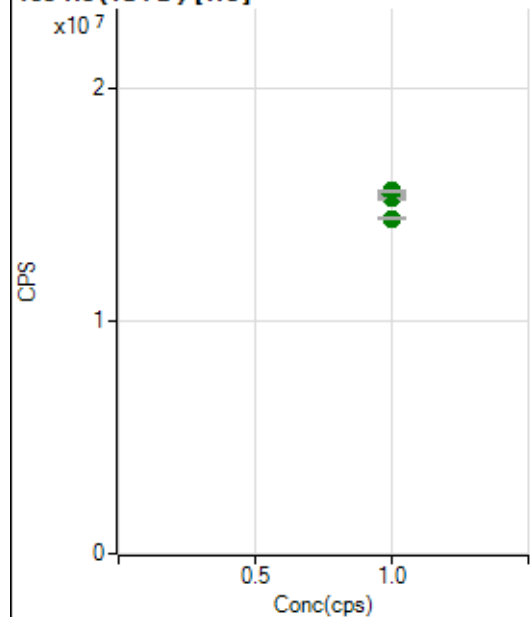
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		24414505.75		A	2.2
2	☐	1.000		24356441.30		A	1.0
3	☐	1.000		24666368.24		A	1.9
4	☐	1.000		24369704.36		A	3.9
5	☐	1.000		24576576.86		A	2.1
6	☐	1.000		25190985.18		A	0.6
7	☐	1.000		25558532.40		A	0.7
8	☐	1.000		23032137.16		A	2.4

159 Tb (ISTD) [He]

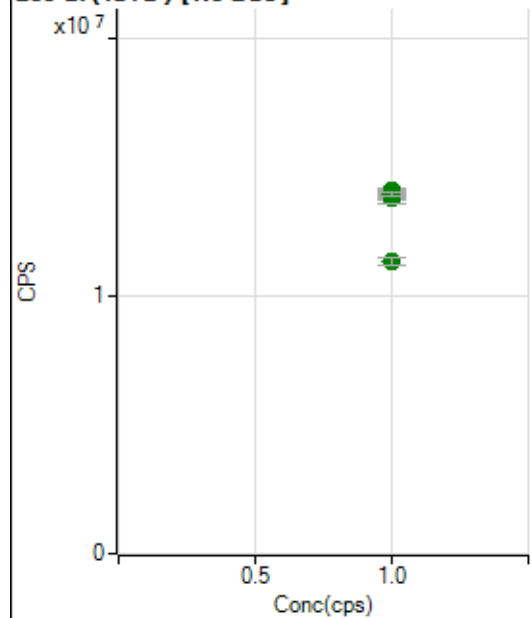
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15477893.24		A	1.4
2	☐	1.000		15464273.66		A	2.3
3	☐	1.000		15532860.05		A	1.1
4	☐	1.000		15521305.74		A	0.2
5	☐	1.000		15501126.71		A	0.4
6	☐	1.000		15498760.88		A	0.5
7	☐	1.000		15637773.10		A	0.7
8	☐	1.000		14454171.59		A	1.0

165 Ho (ISTD) [No Gas]

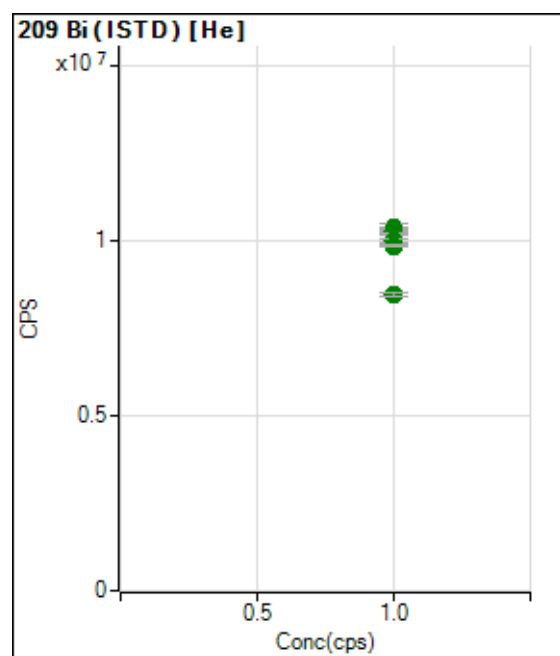
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		23523468.54		A	2.1
2	☐	1.000		23830598.53		A	0.2
3	☐	1.000		23981685.47		A	2.1
4	☐	1.000		23582500.20		A	4.4
5	☐	1.000		24034795.20		A	0.7
6	☐	1.000		24246102.14		A	1.0
7	☐	1.000		24938152.68		A	2.0
8	☐	1.000		22372463.55		A	2.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15283359.63		A	0.9
2	☐	1.000		15287782.41		A	1.8
3	☐	1.000		15460207.27		A	1.5
4	☐	1.000		15505221.16		A	0.3
5	☐	1.000		15499972.69		A	1.6
6	☐	1.000		15393848.94		A	1.2
7	☐	1.000		15567722.55		A	0.4
8	☐	1.000		14361390.62		A	0.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13836580.49		A	1.5
2	☐	1.000		14064839.65		A	0.5
3	☐	1.000		14050749.93		A	1.9
4	☐	1.000		13824710.63		A	3.4
5	☐	1.000		13904677.43		A	1.3
6	☐	1.000		13992032.15		A	0.7
7	☐	1.000		13930636.87		A	0.9
8	☐	1.000		11330524.42		A	2.6



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10375142.76		A	0.8
2	☐	1.000		10378368.53		A	2.0
3	☐	1.000		10336799.92		A	1.5
4	☐	1.000		10283611.44		A	0.8
5	☐	1.000		10208611.79		A	0.8
6	☐	1.000		9997890.40		A	1.0
7	☐	1.000		9864769.86		A	0.5
8	☐	1.000		8487986.68		A	1.1

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7082923 MS.b

Acq. Date-Time 2023-08-29 09:49:35

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		13711	137106.49			0.581	5.000
24		538503	5385027.52			0.515	5.000
25		70142	701416.30			0.602	5.000
26		80922	809222.70			1.257	5.000
59		121489	1214889.50			0.670	5.000
113		16848	168480.00			0.527	5.000
115		209053	2090528.98			0.992	5.000
206		125524	1255240.50			1.463	5.000
207		109183	1091826.73			1.404	5.000
208		263848	2638481.24			1.075	5.000
220		0	3.30			38.030	

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

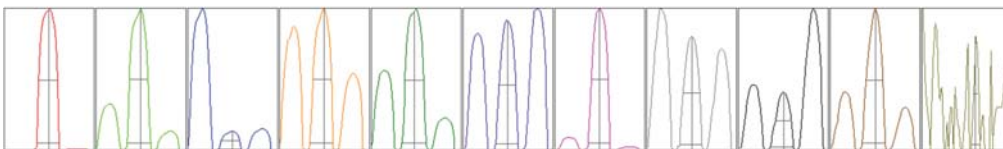
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	13737	13828	13663	13708	13618
24	535187	538007	536706	540770	541843
25	69620	70474	70619	69823	70172
26	79212	81697	81691	81069	80942
59	122639	121685	121649	120480	120992
113	16877	16934	16913	16721	16794
115	211171	211322	206735	208206	207832
206	127355	126296	126845	123782	123342
207	111098	110563	108367	107728	108159
208	266137	267121	263945	261345	260693

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	23146.82	9.00	8.90 - 9.10	
24	922231.02	24.00	23.90 - 24.10	
25	120752.53	25.00	24.90 - 25.10	
26	138261.74	26.00	25.90 - 26.10	
59	202584.25	58.95	58.90 - 59.10	
113	31872.31	113.00	112.90 - 113.10	
115	393082.36	115.00	114.90 - 115.10	
206	234335.25	206.05	205.90 - 206.10	
207	207957.61	207.05	206.90 - 207.10	
208	501337.58	208.05	207.90 - 208.10	
220	0.80	220.30	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.740	0.900	
24	0.62	0.783	0.900	
25	0.62	0.747	0.900	
26	0.62	0.780	0.900	
59	0.62	0.815	0.900	
113	0.54	0.753	0.900	
115	0.55	0.730	0.900	
206	0.55	0.741	0.900	
207	0.52	0.779	0.900	
208	0.55	0.780	0.900	
220	0.16	0.286		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode ---

Nebulizer Gas 0.82 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	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.3 V	Deflect	14.8 V
Extract 2	-145.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-75 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	131	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.15		

Hardware Settings

Torch

Torch H	-1.1 mm	Torch V	1.0 mm
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EM

Discriminator	4.8 mV	Analog HV	2296 V	Pulse HV	1486 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		38852	388523.48			3.229	
89		442244	4422439.00			3.354	
205		99238	992375.84			2.947	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	39578	39633	39030	36648	39372
89	451960	447936	445942	416001	449380
205	101153	102454	96749	95622	100209

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.3 V	Deflect	2.2 V
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US EPA Tune Check Report

Extract 2	-135.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-70 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	131	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.15		

Hardware Settings

Torch

Torch H	-1.1 mm	Torch V	1.0 mm
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EM

Discriminator	4.8 mV	Analog HV	2296 V	Pulse HV	1486 V
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