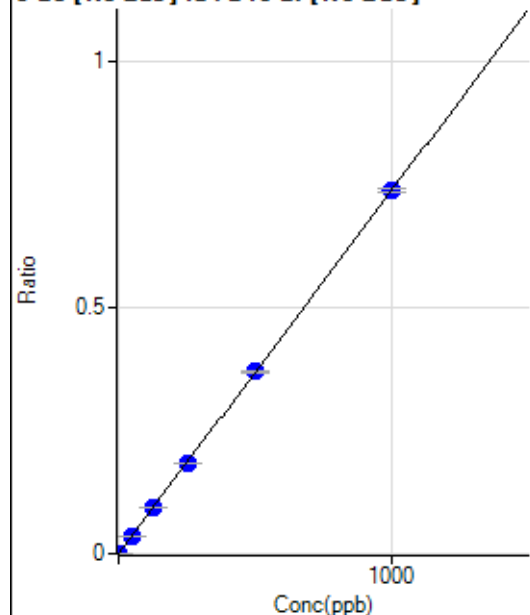


Calibration for 004CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8110420IMS.b\
 Analysis File: P8110420IMS.batch.bin
 DA Date-Time: 2020-11-04 17:34:51
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-11-04 09:20:45
2	004CALS.d	S02	2020-11-04 09:23:56
3	005CALS.d	S03	2020-11-04 09:27:05
4	006CALS.d	S04	2020-11-04 09:30:15
5	007CALS.d	S05	2020-11-04 09:33:18
6	008CALS.d	S06	2020-11-04 09:36:18
7	009CALS.d	S07	2020-11-04 09:39:17
8	010CALS.d	S08	2020-11-04 09:42:17

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.99	0.0000	P	5.9
2	☐	1.000	0.919	715.88	0.0007	P	5.8
3	☐	50.000	49.956	36833.09	0.0369	P	1.0
4	☐	125.000	124.836	93467.97	0.0921	P	0.2
5	☐	250.000	248.593	183868.03	0.1833	P	1.4
6	☐	500.000	501.487	365540.40	0.3696	P	1.5
7	☐	1000.000	999.631	709020.34	0.7368	P	1.1
8	☐			488.58	0.0005	P	4.1

$$y = 7.3702\text{E-}004 * x + 4.4063\text{E-}005$$

$$R = 1.0000$$

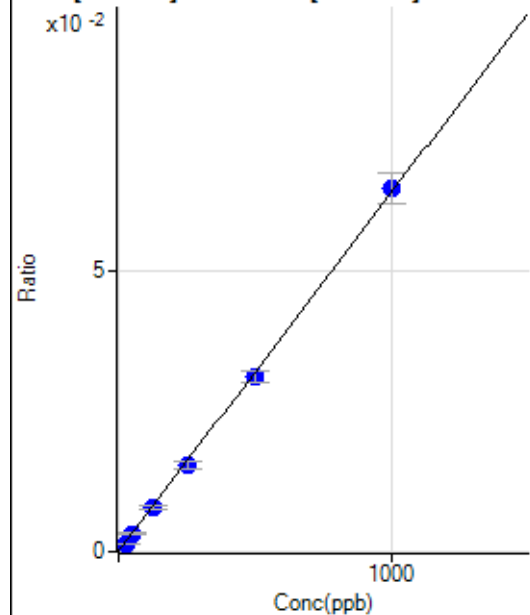
$$DL = 0.01052$$

$$BEC = 0.05979$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	79.32	0.0001	P	13.3
2	☐	25.000	21.447	1437.79	0.0014	P	6.0
3	☐	50.000	49.448	3234.39	0.0032	P	8.3
4	☐	125.000	120.850	7917.24	0.0078	P	7.4
5	☐	250.000	238.861	15385.04	0.0153	P	8.7
6	☐	500.000	487.263	30880.86	0.0312	P	5.9
7	☐	1000.000	1009.788	62140.91	0.0646	P	8.4
8	☐			7949.93	0.0081	P	10.9

$$y = 6.3890\text{E-}005 * x + 7.9502\text{E-}005$$

$$R = 0.9998$$

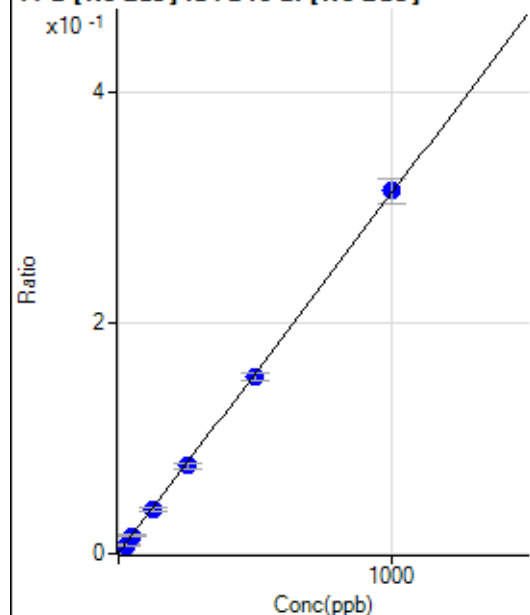
$$DL = 0.4957$$

$$BEC = 1.244$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	350.60	0.0004	P	12.0
2	☐	25.000	21.974	7139.00	0.0072	P	8.2
3	☐	50.000	48.806	15539.14	0.0156	P	7.9
4	☐	125.000	120.732	38544.04	0.0380	P	8.3
5	☐	250.000	242.618	76192.77	0.0760	P	7.3
6	☐	500.000	491.276	151838.01	0.1535	P	4.9
7	☐	1000.000	1006.876	302234.75	0.3142	P	7.1
8	☐			38369.66	0.0389	P	11.4

$$y = 3.1166\text{E-}004 * x + 3.5096\text{E-}004$$

$$R = 0.9999$$

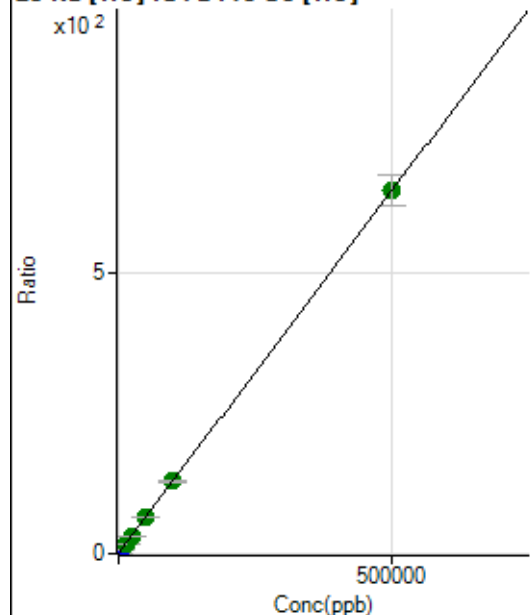
$$DL = 0.4055$$

$$BEC = 1.126$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	51025.90	0.5079	P	0.1
2	☐	500.000	487.603	113668.56	1.1373	P	1.2
3	☐	5000.000	5020.040	709719.43	6.9880	P	2.2
4	☐	12500.000	12712.253	1704959.30	16.9176	A	0.6
5	☐	25000.000	24312.023	3281473.84	31.8912	A	2.8
6	☐	50000.000	49161.293	6495909.82	63.9681	A	1.2
7	☐	100000.00	99234.930	13013198.47	128.6060	A	0.6
8	☐	500000.00	500265.78	62014347.22	646.2795	A	8.4

$$y = 0.0013 * x + 0.5079$$

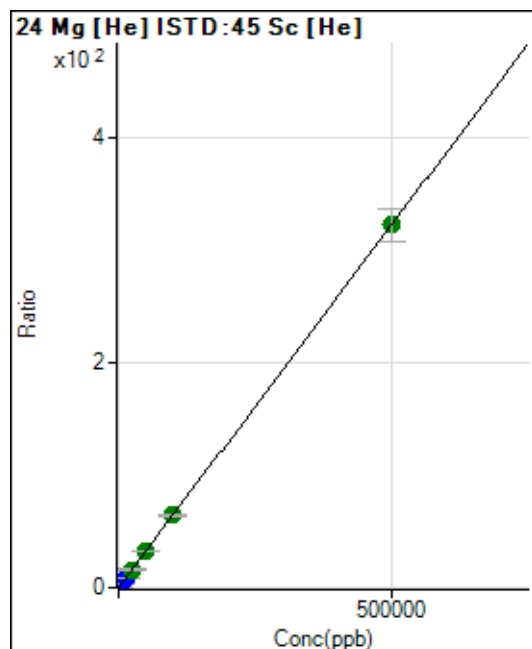
$$R = 1.0000$$

$$DL = 1.509$$

$$BEC = 393.4$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	680.59	0.0068	P	10.0
2	☐	500.000	499.197	32857.01	0.3287	P	1.2
3	☐	5000.000	5088.365	334023.10	3.2886	P	1.6
4	☐	12500.000	13045.847	848633.38	8.4208	P	0.3
5	☐	25000.000	24924.225	1654819.05	16.0818	A	2.8
6	☐	50000.000	49396.379	3235909.08	31.8653	A	1.2
7	☐	100000.00	99539.050	6496786.43	64.2053	A	0.3
8	☐	500000.00	500141.81	30944748.26	322.5771	A	8.9

$$y = 6.4496\text{E-}004 * x + 0.0068$$

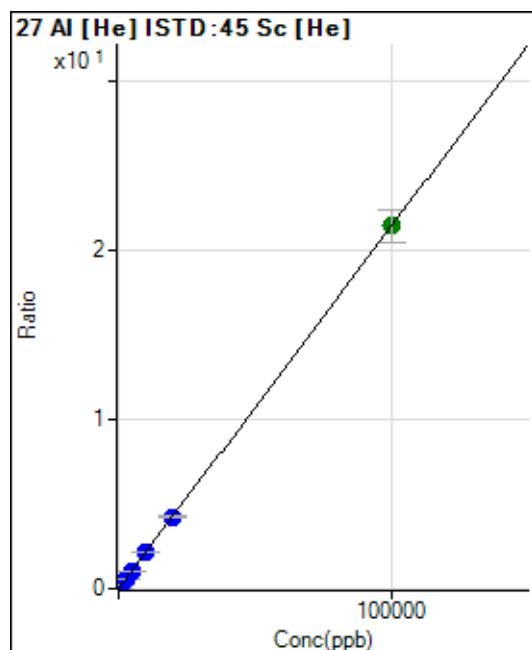
$$R = 1.0000$$

$$DL = 3.157$$

$$BEC = 10.5$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	475.78	0.0047	P	4.2
2	☐	20.000	18.749	874.09	0.0087	P	3.1
3	☐	1000.000	991.767	22034.26	0.2169	P	1.2
4	☐	2500.000	2500.347	54389.75	0.5397	P	0.6
5	☐	5000.000	4897.738	108314.17	1.0526	P	2.6
6	☐	10000.000	9949.480	216654.11	2.1335	P	0.9
7	☐	20000.000	19813.476	429423.74	4.2439	P	0.6
8	☐	100000.00	100047.54	2053467.98	21.4102	A	9.4

$$y = 2.1395\text{E-}004 * x + 0.0047$$

$$R = 1.0000$$

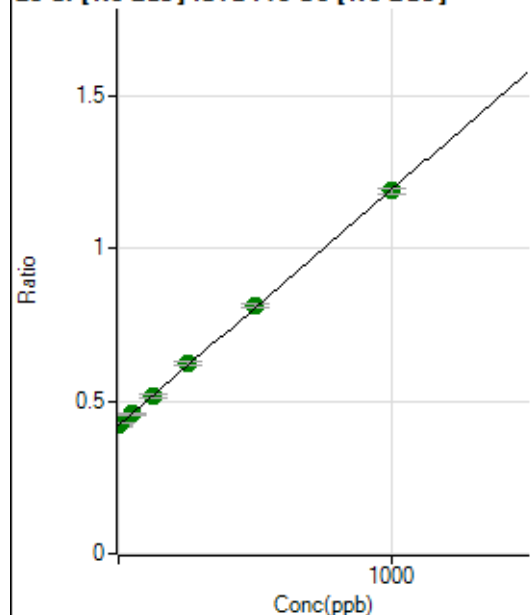
$$DL = 2.787$$

$$BEC = 22.13$$

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	1025698.66	0.4207	A	1.8
2	☐	10.000	11.167	1048282.33	0.4293	A	0.4
3	☐	50.000	46.777	1125996.62	0.4568	A	1.9
4	☐	125.000	122.477	1278617.92	0.5152	A	1.7
5	☐	250.000	264.344	1530886.79	0.6248	A	2.1
6	☐	500.000	505.821	1993381.34	0.8112	A	2.0
7	☐	1000.000	993.969	2904321.31	1.1881	A	1.6
8	☐			1284631.10	0.5238	A	2.2

$$y = 7.7210E-004 * x + 0.4207$$

R = 0.9998

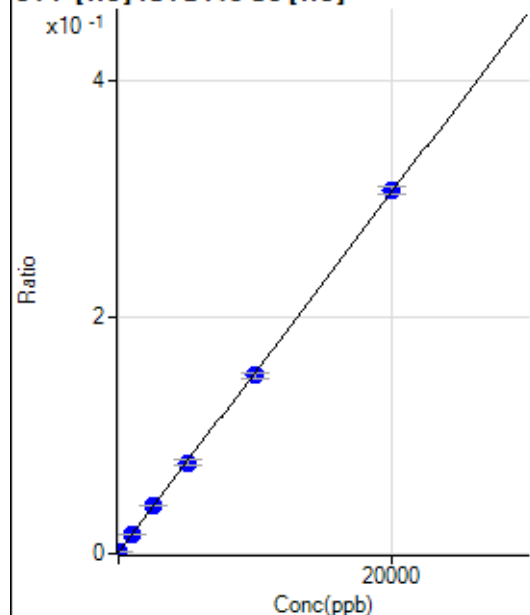
DL = 29.83

BEC = 544.8

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-1.063	130.56	0.0013	P	20.8
2	☐	0.000	1.063	133.34	0.0013	P	21.8
3	☐	1000.000	994.968	1672.36	0.0165	P	6.5
4	☐	2500.000	2581.167	4095.15	0.0406	P	2.6
5	☐	5000.000	4947.860	7888.46	0.0767	P	6.3
6	☐	10000.000	9824.634	15333.45	0.1510	P	2.9
7	☐	20000.000	20090.824	31103.50	0.3074	P	2.0
8	☐			194.45	0.0020	P	16.4

$$y = 1.5235E-005 * x + 0.0013$$

R = 0.9999

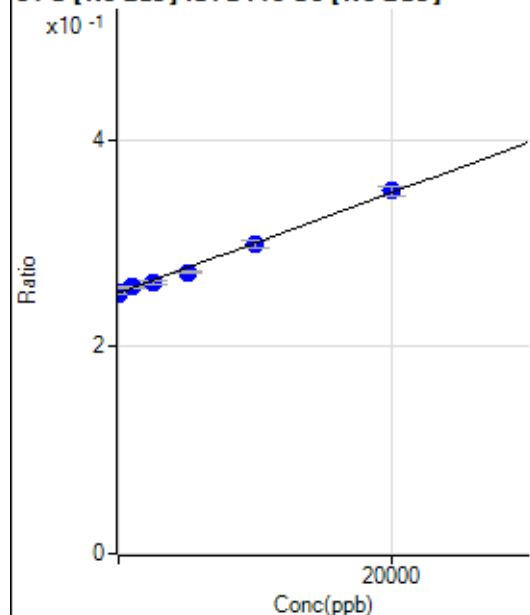
DL = 55.27

BEC = 86.39

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	-47.199	614004.76	0.2518	P	0.8
2	☐	0.000	47.199	615969.92	0.2523	P	1.1
3	☐	1000.000	1205.850	635742.33	0.2579	P	0.4
4	☐	2500.000	1986.342	649336.00	0.2617	P	1.7
5	☐	5000.000	4165.839	667097.72	0.2722	P	0.8
6	☐	10000.000	9850.447	736554.60	0.2998	P	2.5
7	☐	20000.000	20337.231	857049.08	0.3507	P	2.6
8	☐			561475.73	0.2290	P	0.7

$$y = 4.8500\text{E-}006 * x + 0.2520$$

$$R = 0.9986$$

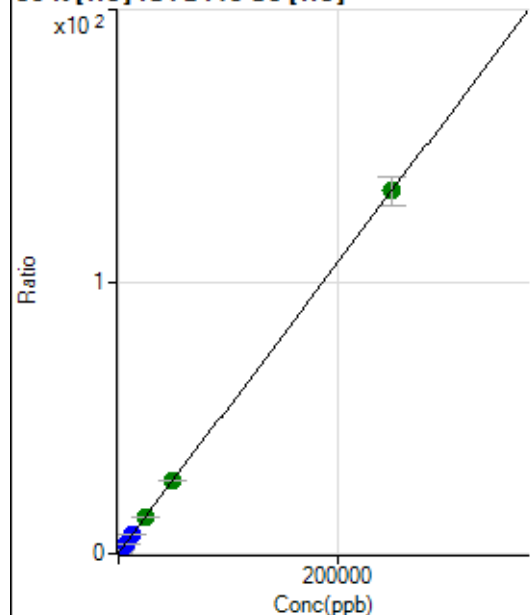
$$DL = 1516$$

$$BEC = 5.197\text{E+}04$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	30329.81	0.3019	P	0.3
2	☐	500.000	451.844	54205.26	0.5423	P	1.4
3	☐	2500.000	2529.313	167362.52	1.6477	P	1.2
4	☐	6250.000	6394.217	373298.27	3.7041	P	0.2
5	☐	12500.000	12405.237	710285.21	6.9025	P	2.3
6	☐	25000.000	24766.178	1368917.60	13.4796	A	0.7
7	☐	50000.000	49506.250	2695995.50	26.6434	A	0.3
8	☐	250000.00	250123.06	12804860.62	133.3887	A	7.7

$$y = 5.3209\text{E-}004 * x + 0.3019$$

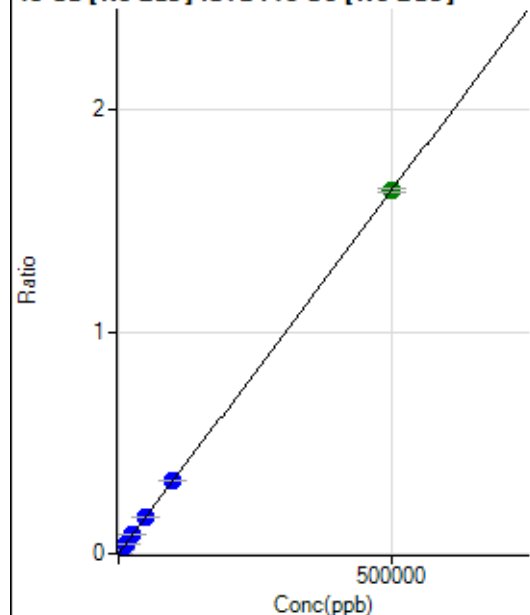
$$R = 1.0000$$

$$DL = 5.097$$

$$BEC = 567.3$$

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	307.47	0.0001	P	2.6
2	☐	500.000	489.470	4216.77	0.0017	P	3.3
3	☐	5000.000	5007.173	40682.41	0.0165	P	0.8
4	☐	12500.000	12495.952	101735.52	0.0410	P	1.4
5	☐	25000.000	25253.566	202704.12	0.0827	P	0.1
6	☐	50000.000	50348.363	404937.73	0.1648	P	1.2
7	☐	100000.00	100761.96	805875.56	0.3297	P	1.5
8	☐	500000.00	499800.13	4009223.41	1.6348	A	1.1

$$y = 3.2706\text{E-}006 * x + 1.2613\text{E-}004$$

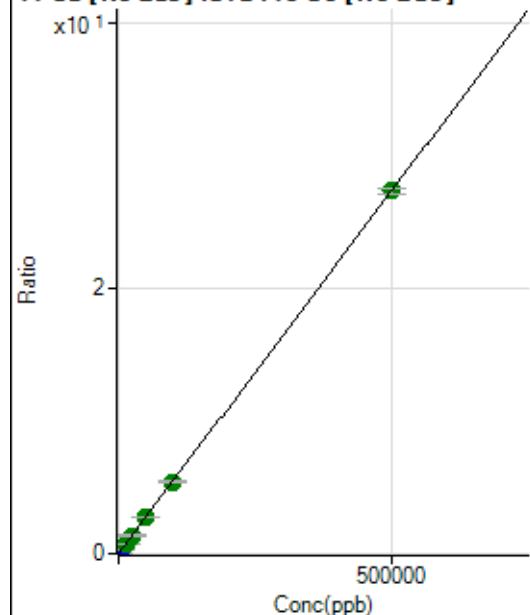
$$R = 1.0000$$

$$DL = 3.053$$

$$BEC = 38.56$$

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	28133.58	0.0115	P	2.5
2	☐	500.000	479.306	92131.40	0.0377	P	1.4
3	☐	5000.000	5012.950	703727.54	0.2855	P	1.1
4	☐	12500.000	12571.287	1733393.25	0.6985	A	1.2
5	☐	25000.000	24938.217	3367634.78	1.3742	A	0.4
6	☐	50000.000	49856.369	6722325.61	2.7359	A	1.6
7	☐	100000.00	99168.763	13277289.42	5.4305	A	0.2
8	☐	500000.00	500181.80	67059339.36	27.3432	A	1.7

$$y = 5.4643\text{E-}005 * x + 0.0115$$

$$R = 1.0000$$

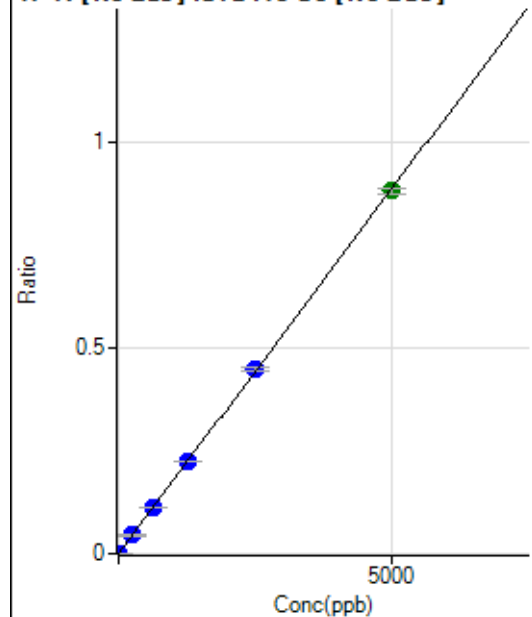
$$DL = 16.02$$

$$BEC = 211.2$$

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	447.24	0.0002	P	9.8
2	☐	5.000	4.743	2494.73	0.0010	P	8.0
3	☐	250.000	251.313	109968.24	0.0446	P	1.4
4	☐	625.000	624.823	274556.20	0.1106	P	1.5
5	☐	1250.000	1272.836	551814.30	0.2252	P	0.6
6	☐	2500.000	2534.572	1101238.85	0.4482	P	2.3
7	☐	5000.000	4976.962	2151059.12	0.8800	A	1.5
8	☐			1063.96	0.0004	P	11.1

$$y = 1.7677E-004 * x + 1.8337E-004$$

R = 1.0000

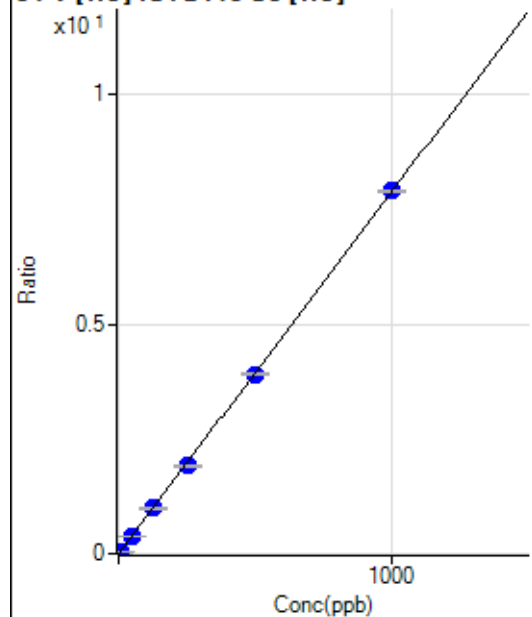
DL = 0.3037

BEC = 1.037

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	13.33	0.0001	P	25.3
2	☐	5.000	4.920	3882.79	0.0389	P	2.3
3	☐	50.000	49.964	39953.37	0.3933	P	0.4
4	☐	125.000	125.021	99156.96	0.9839	P	0.7
5	☐	250.000	243.024	196815.55	1.9125	P	1.9
6	☐	500.000	496.705	396944.40	3.9088	P	0.5
7	☐	1000.000	1003.391	798964.09	7.8960	P	0.7
8	☐			308.90	0.0032	P	7.8

$$y = 0.0079 * x + 1.3277E-004$$

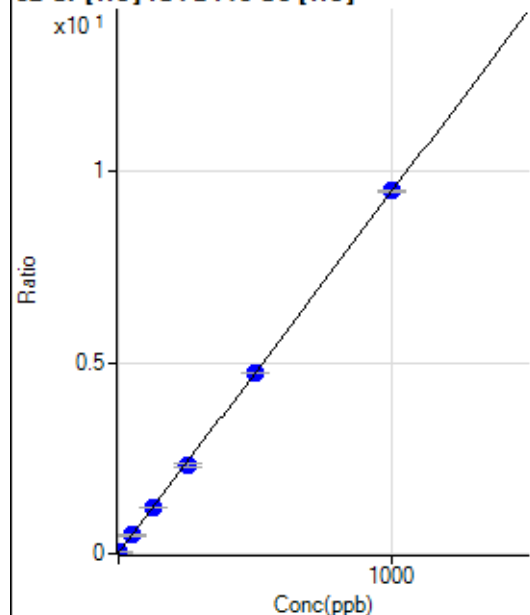
R = 1.0000

DL = 0.01282

BEC = 0.01687

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	886.70	0.0088	P	1.5
2	☐	2.000	1.973	2746.96	0.0275	P	4.1
3	☐	50.000	49.827	48729.32	0.4797	P	1.6
4	☐	125.000	124.999	119947.61	1.1902	P	0.6
5	☐	250.000	243.571	237790.44	2.3109	P	2.6
6	☐	500.000	498.302	479152.84	4.7184	P	0.8
7	☐	1000.000	1002.465	959586.89	9.4833	P	0.2
8	☐			4590.79	0.0477	P	3.5

$$y = 0.0095 * x + 0.0088$$

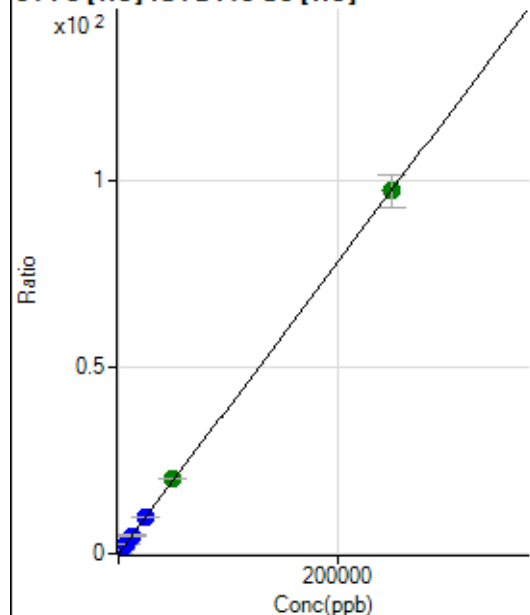
$$R = 1.0000$$

$$DL = 0.04264$$

$$BEC = 0.9338$$

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	400.01	0.0040	P	4.0
2	☐	50.000	53.150	2468.77	0.0247	P	4.5
3	☐	2500.000	2569.529	102119.46	1.0055	P	2.3
4	☐	6250.000	6405.769	252012.59	2.5006	P	0.6
5	☐	12500.000	12536.065	503173.43	4.8899	P	2.5
6	☐	25000.000	25549.216	1011636.97	9.9618	P	0.6
7	☐	50000.000	51331.510	2024842.67	20.0104	A	1.1
8	☐	250000.00	249672.38	9333505.53	97.3137	A	9.3

$$y = 3.8975E-004 * x + 0.0040$$

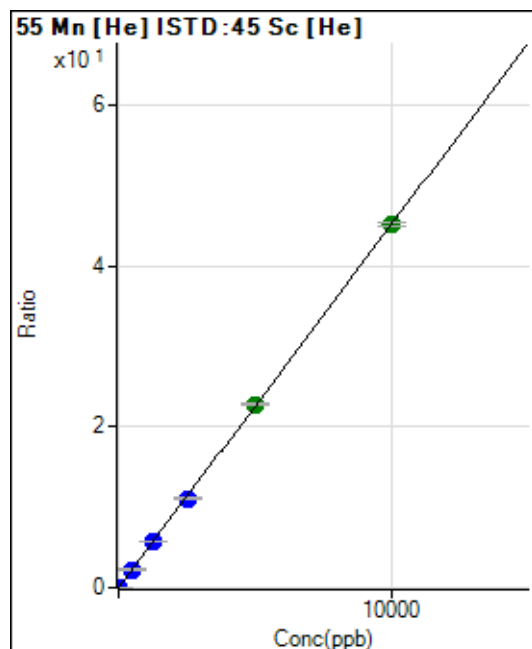
$$R = 1.0000$$

$$DL = 1.222$$

$$BEC = 10.22$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	205.56	0.0020	P	3.2
2	☐	1.000	1.063	684.47	0.0069	P	10.2
3	☐	500.000	500.882	230184.71	2.2661	P	0.7
4	☐	1250.000	1266.508	577118.57	5.7267	P	0.4
5	☐	2500.000	2443.567	1136754.71	11.0471	P	2.5
6	☐	5000.000	5050.914	2318646.88	22.8325	A	1.0
7	☐	10000.000	9986.544	4567830.83	45.1419	A	1.1
8	☐			5170.98	0.0538	P	6.7

$$y = 0.0045 * x + 0.0020$$

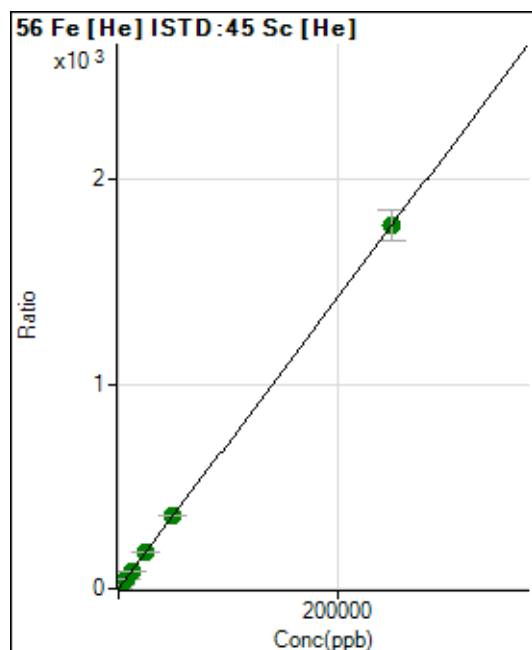
$$R = 1.0000$$

$$DL = 0.04344$$

$$BEC = 0.4526$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2933.69	0.0292	P	2.4
2	☐	50.000	50.204	38516.88	0.3854	P	2.4
3	☐	2500.000	2537.818	1831851.38	18.0355	A	1.6
4	☐	6250.000	6249.144	4471184.45	44.3680	A	0.6
5	☐	12500.000	12197.563	8907444.70	86.5731	A	3.5
6	☐	25000.000	25082.246	18075267.30	177.9922	A	0.7
7	☐	50000.000	50216.638	36055752.42	356.3252	A	0.7
8	☐	250000.00	249963.21	170187174.1	1,773.562	A	8.4

$$y = 0.0071 * x + 0.0292$$

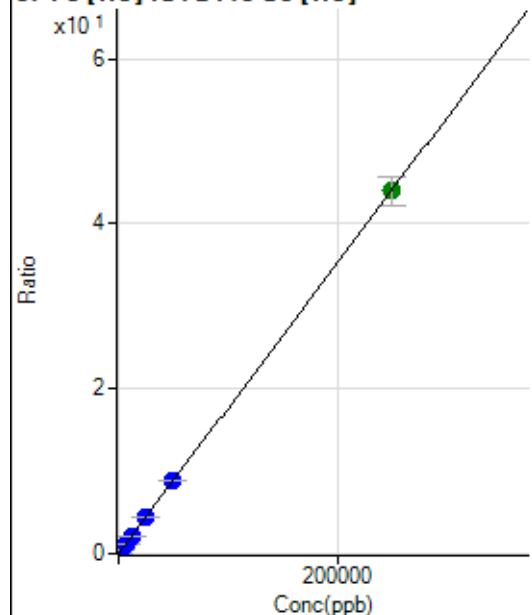
$$R = 1.0000$$

$$DL = 0.2937$$

$$BEC = 4.116$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	146.30	0.0015	P	28.2
2	☐	50.000	49.298	1013.02	0.0101	P	2.4
3	☐	2500.000	2506.660	44980.34	0.4428	P	0.9
4	☐	6250.000	6291.453	111780.43	1.1092	P	0.4
5	☐	12500.000	12350.783	223898.12	2.1761	P	3.3
6	☐	25000.000	25203.914	450790.31	4.4391	P	1.3
7	☐	50000.000	50519.122	900188.75	8.8964	P	1.5
8	☐	250000.00	249882.14	4223381.86	43.9984	A	7.8

$$y = 1.7607\text{E-}004 * x + 0.0015$$

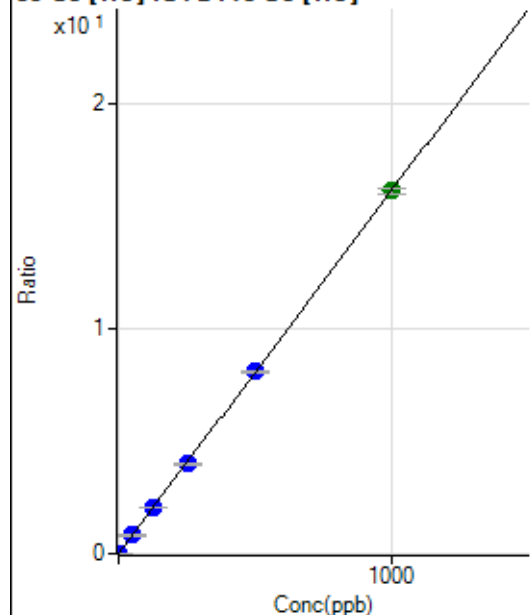
$$R = 1.0000$$

$$DL = 6.997$$

$$BEC = 8.266$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	56.67	0.0006	P	36.5
2	☐	1.000	0.979	1635.66	0.0164	P	2.2
3	☐	50.000	50.722	83174.29	0.8189	P	1.8
4	☐	125.000	127.063	206657.77	2.0506	P	0.3
5	☐	250.000	246.505	409317.92	3.9777	P	2.2
6	☐	500.000	502.051	822617.76	8.1006	P	1.1
7	☐	1000.000	999.554	1631877.42	16.1274	A	1.3
8	☐			3177.05	0.0331	P	6.5

$$y = 0.0161 * x + 5.6377\text{E-}004$$

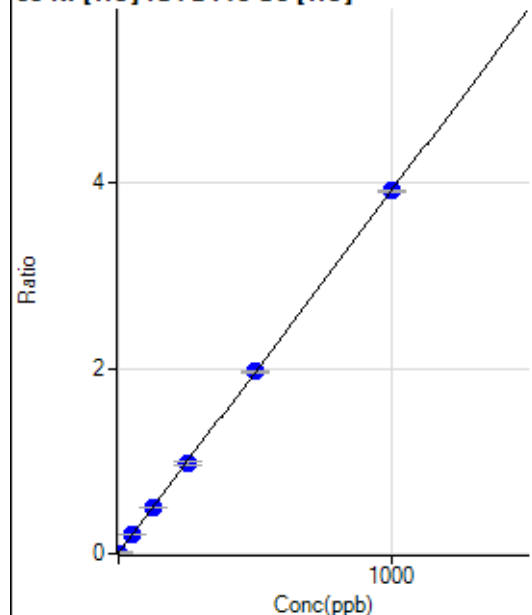
$$R = 1.0000$$

$$DL = 0.03825$$

$$BEC = 0.03494$$

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	582.41	0.0058	P	9.0
2	☐	1.000	1.070	997.66	0.0100	P	13.5
3	☐	50.000	50.858	20806.80	0.2049	P	3.7
4	☐	125.000	126.788	50604.67	0.5022	P	1.6
5	☐	250.000	248.378	100654.57	0.9782	P	2.5
6	☐	500.000	500.838	199708.62	1.9665	P	1.0
7	☐	1000.000	999.720	396617.76	3.9196	P	0.8
8	☐			1944.34	0.0203	P	12.4

$$y = 0.0039 * x + 0.0058$$

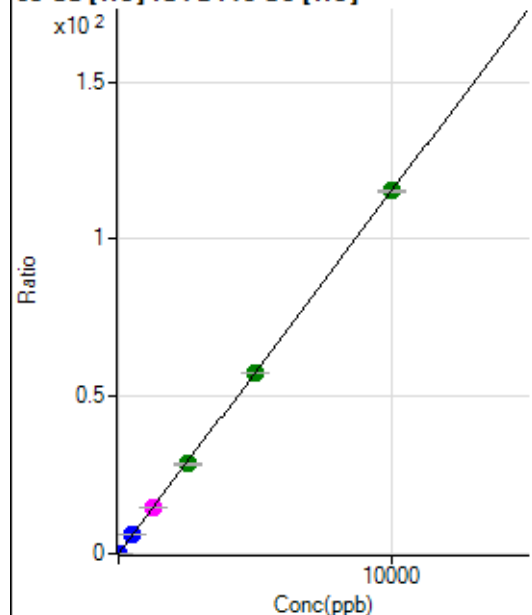
$$R = 1.0000$$

$$DL = 0.4007$$

$$BEC = 1.481$$

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	790.03	0.0079	P	10.5
2	☐	2.000	2.488	3652.73	0.0365	P	0.9
3	☐	500.000	511.523	599713.16	5.9043	P	1.4
4	☐	1250.000	1284.447	1492896.64	14.8141	M	1.1
5	☐	2500.000	2486.755	2950514.99	28.6734	A	2.4
6	☐	5000.000	4988.456	5840305.61	57.5113	A	0.8
7	☐	10000.000	10004.201	11669887.74	115.3293	A	0.3
8	☐			9511.03	0.0990	P	6.3

$$y = 0.0115 * x + 0.0079$$

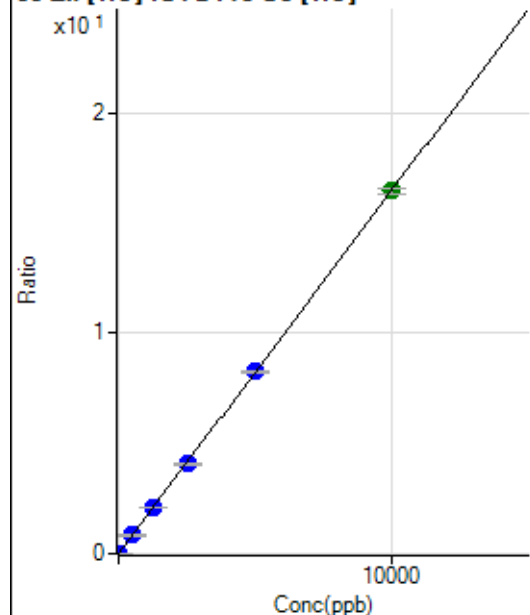
$$R = 1.0000$$

$$DL = 0.2145$$

$$BEC = 0.6821$$

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	94.44	0.0009	P	20.4
2	☐	2.000	2.114	442.23	0.0044	P	10.1
3	☐	500.000	506.337	84859.67	0.8355	P	2.0
4	☐	1250.000	1274.351	211764.55	2.1014	P	0.9
5	☐	2500.000	2463.706	417948.19	4.0617	P	2.6
6	☐	5000.000	5019.242	840214.93	8.2739	P	0.9
7	☐	10000.000	9996.092	1667224.71	16.4769	A	1.6
8	☐			4937.57	0.0514	P	8.4

$$y = 0.0016 * x + 9.4043E-004$$

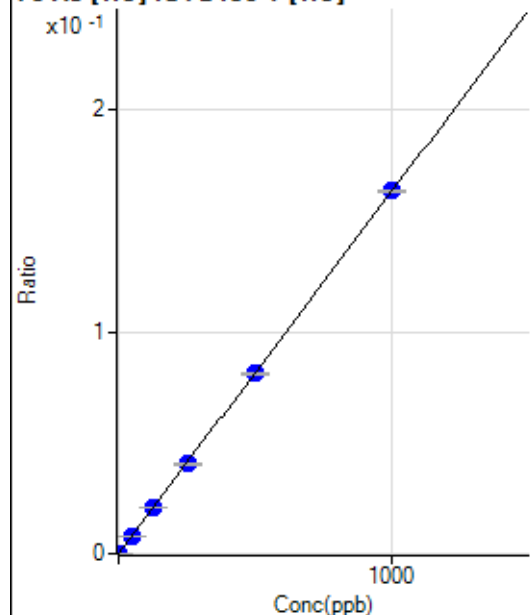
$$R = 1.0000$$

$$DL = 0.3488$$

$$BEC = 0.5706$$

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	6.00	0.0000	P	16.0
2	☐	1.000	0.983	128.35	0.0002	P	10.2
3	☐	50.000	48.956	6223.00	0.0080	P	2.4
4	☐	125.000	125.514	15810.75	0.0205	P	0.7
5	☐	250.000	247.123	31495.06	0.0403	P	3.1
6	☐	500.000	496.963	63282.90	0.0811	P	0.3
7	☐	1000.000	1002.226	126699.10	0.1636	P	0.7
8	☐			84.68	0.0001	P	5.3

$$y = 1.6322E-004 * x + 7.7976E-006$$

$$R = 1.0000$$

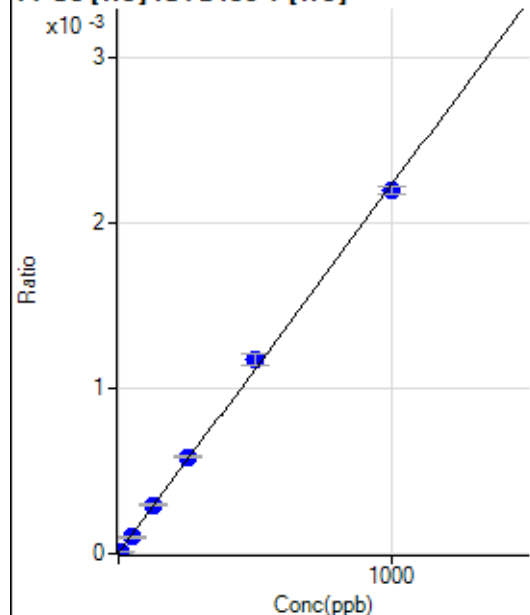
$$DL = 0.02293$$

$$BEC = 0.04777$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3.33	0.0000	P	100.1
2	☐	5.000	1.990	6.67	0.0000	P	49.9
3	☐	50.000	44.942	81.11	0.0001	P	11.1
4	☐	125.000	130.278	226.67	0.0003	P	5.0
5	☐	250.000	260.679	455.56	0.0006	P	2.9
6	☐	500.000	525.591	914.48	0.0012	P	6.2
7	☐	1000.000	984.143	1696.79	0.0022	P	2.2
8	☐			1.11	0.0000	P	173.2

$$y = 2.2219\text{E-}006 * x + 4.3162\text{E-}006$$

$$R = 0.9994$$

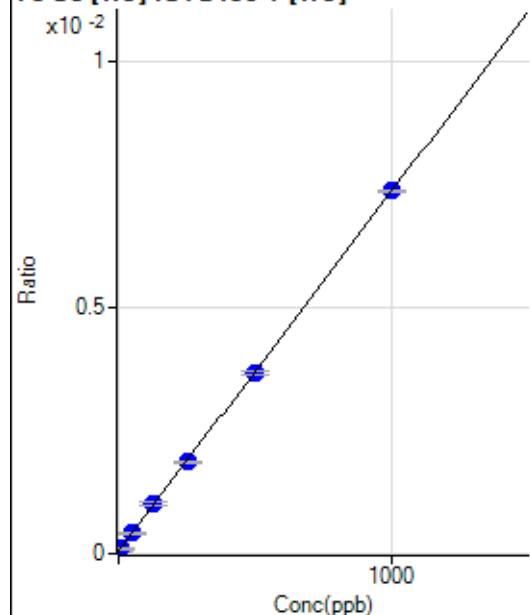
$$DL = 5.833$$

$$BEC = 1.943$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	40.67	0.0001	P	17.6
2	☐	5.000	7.097	80.01	0.0001	P	17.9
3	☐	50.000	50.237	327.04	0.0004	P	7.7
4	☐	125.000	131.615	783.77	0.0010	P	6.8
5	☐	250.000	246.803	1451.22	0.0019	P	3.3
6	☐	500.000	497.364	2880.59	0.0037	P	2.1
7	☐	1000.000	1001.268	5716.07	0.0074	P	0.6
8	☐			48.01	0.0001	P	23.8

$$y = 7.3179\text{E-}006 * x + 5.2903\text{E-}005$$

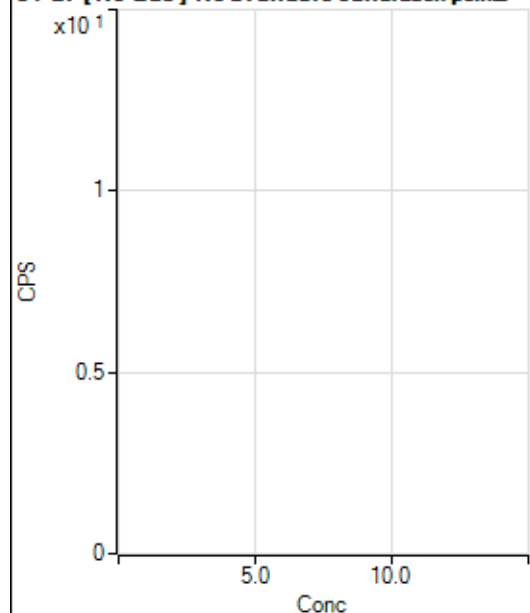
$$R = 1.0000$$

$$DL = 3.809$$

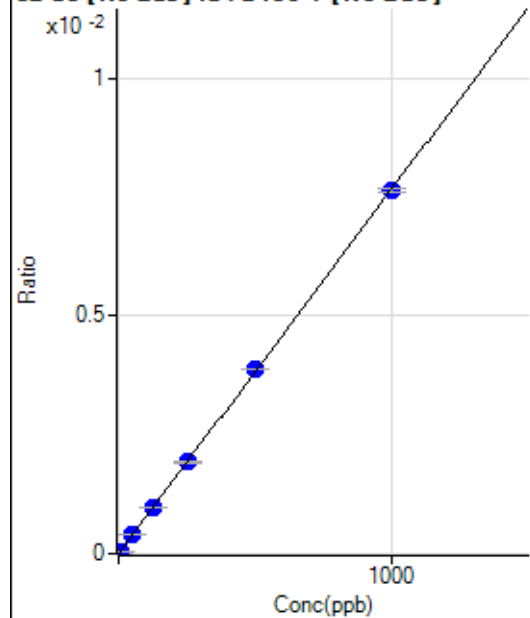
$$BEC = 7.229$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2362.63		P	4.0
2	☐			2492.78		P	2.9
3	☐			2532.86		P	6.9
4	☐			2516.16		P	6.1
5	☐			2469.44		P	9.2
6	☐			2399.35		P	5.5
7	☐			2562.88		P	1.8
8	☐			2693.03		P	9.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-5.14	0.0000	P	-802.
2	☐	5.000	4.664	235.44	0.0000	P	27.5
3	☐	50.000	52.083	2696.96	0.0004	P	2.2
4	☐	125.000	127.333	6607.70	0.0010	P	1.9
5	☐	250.000	251.351	13092.92	0.0019	P	1.9
6	☐	500.000	506.654	26347.75	0.0039	P	0.6
7	☐	1000.000	995.941	51731.97	0.0076	P	0.9
8	☐			38.35	0.0000	P	120.3

$$y = 7.6564E-006 * x - 8.0548E-007$$

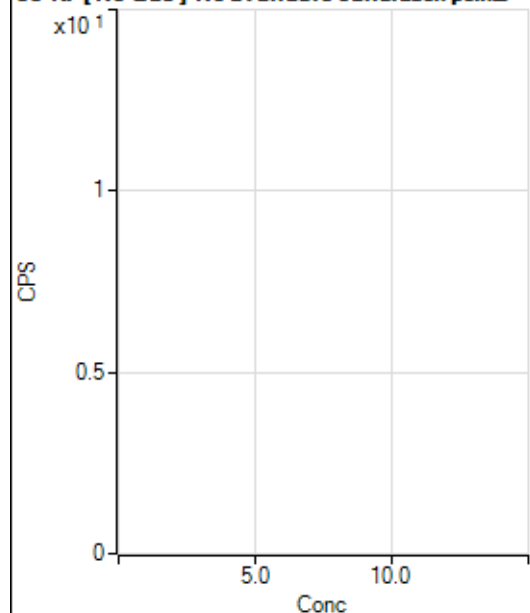
$$R = 1.0000$$

$$DL = 2.532$$

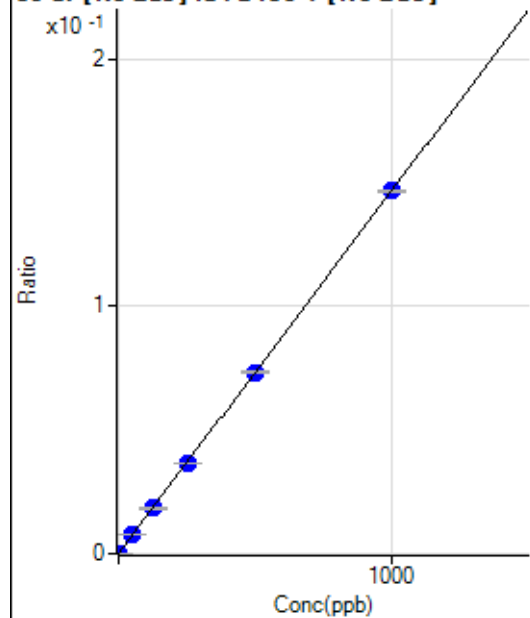
$$BEC = -0.1052$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			383.34		P	9.7
2	☐			374.45		P	10.0
3	☐			351.12		P	7.7
4	☐			350.01		P	18.8
5	☐			385.57		P	3.0
6	☐			340.01		P	6.0
7	☐			373.34		P	4.1
8	☐			348.90		P	11.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	575.03	0.0001	P	6.6
2	☐	1.000	1.105	1661.26	0.0002	P	10.7
3	☐	50.000	50.710	50951.51	0.0075	P	0.5
4	☐	125.000	124.684	124548.67	0.0184	P	2.3
5	☐	250.000	248.918	248955.52	0.0366	P	1.3
6	☐	500.000	499.785	498254.26	0.0734	P	0.8
7	☐	1000.000	1000.382	995568.24	0.1467	P	0.4
8	☐			6368.31	0.0009	P	1.4

$$y = 1.4659E-004 * x + 8.4591E-005$$

$$R = 1.0000$$

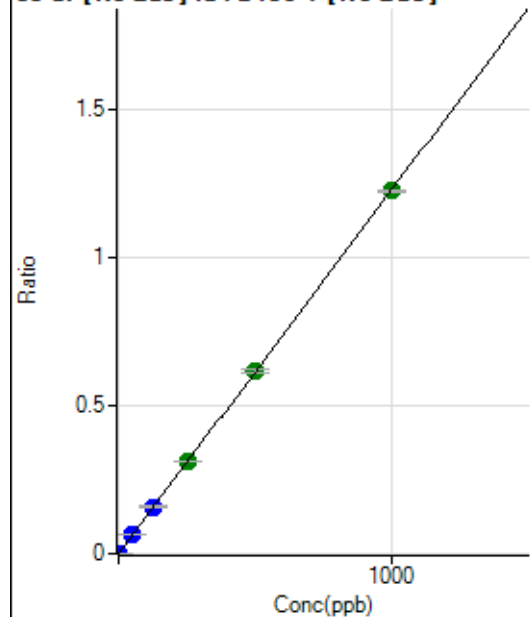
$$DL = 0.1145$$

$$BEC = 0.577$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	269.45	0.0000	P	28.0
2	☐	1.000	1.015	8672.35	0.0013	P	3.7
3	☐	50.000	50.906	424235.05	0.0626	P	0.8
4	☐	125.000	128.204	1068945.62	0.1576	P	2.1
5	☐	250.000	251.733	2106268.62	0.3094	A	0.3
6	☐	500.000	502.922	4198694.80	0.6181	A	1.6
7	☐	1000.000	997.660	8318732.74	1.2261	A	0.5
8	☐			47712.83	0.0070	P	1.2

$$y = 0.0012 * x + 3.9652E-005$$

$$R = 1.0000$$

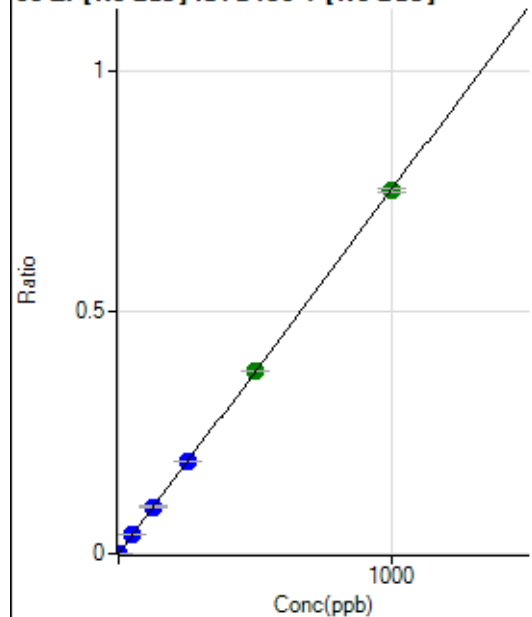
$$DL = 0.0271$$

$$BEC = 0.03227$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	258.34	0.0000	P	7.8
2	☐	1.000	0.973	5195.55	0.0008	P	2.5
3	☐	50.000	51.340	262425.65	0.0387	P	1.5
4	☐	125.000	128.476	656986.26	0.0968	P	1.7
5	☐	250.000	254.528	1305834.27	0.1918	P	0.7
6	☐	500.000	503.456	2577393.87	0.3794	A	0.2
7	☐	1000.000	996.639	5095708.27	0.7510	A	1.1
8	☐			2166.90	0.0003	P	2.2

$$y = 7.5353E-004 * x + 3.8002E-005$$

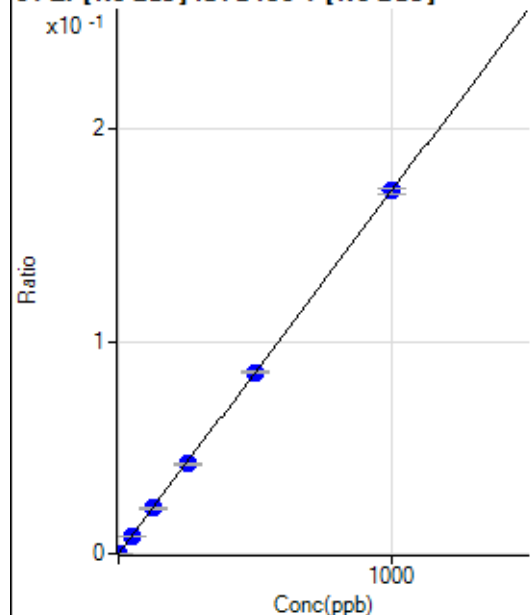
$$R = 1.0000$$

$$DL = 0.01178$$

$$BEC = 0.05043$$

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	69.45	0.0000	P	59.0
2	☐	1.000	0.901	1105.63	0.0002	P	5.7
3	☐	50.000	49.586	57491.16	0.0085	P	1.3
4	☐	125.000	125.832	145909.09	0.0215	P	2.8
5	☐	250.000	248.537	289139.49	0.0425	P	1.8
6	☐	500.000	500.523	581036.82	0.0855	P	1.1
7	☐	1000.000	1000.021	1159490.70	0.1709	P	1.3
8	☐			602.81	0.0001	P	13.6

$$y = 1.7088\text{E-}004 * x + 1.0217\text{E-}005$$

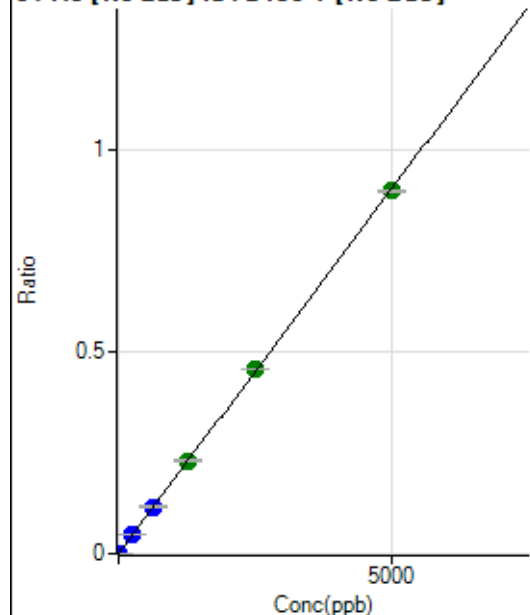
$$R = 1.0000$$

$$DL = 0.1058$$

$$BEC = 0.05979$$

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	136.12	0.0000	P	22.7
2	☐	5.000	4.940	6140.41	0.0009	P	5.2
3	☐	250.000	252.792	309179.08	0.0456	P	0.3
4	☐	625.000	643.227	787245.11	0.1161	P	2.1
5	☐	1250.000	1272.719	1562729.80	0.2296	A	2.3
6	☐	2500.000	2531.349	3102080.84	0.4567	A	0.4
7	☐	5000.000	4976.228	6090606.73	0.8977	A	0.2
8	☐			2692.00	0.0004	P	6.1

$$y = 1.8039\text{E-}004 * x + 2.0064\text{E-}005$$

$$R = 1.0000$$

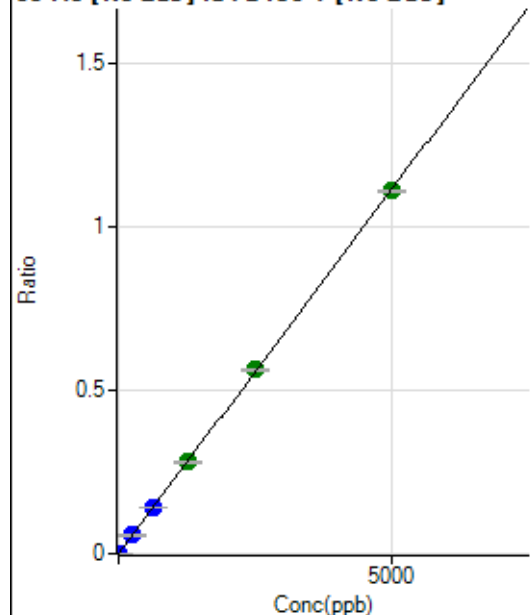
$$DL = 0.07564$$

$$BEC = 0.1112$$

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	22.22	0.0000	P	94.0
2	☐	5.000	4.927	7418.88	0.0011	P	2.7
3	☐	250.000	251.681	379999.95	0.0561	P	1.2
4	☐	625.000	638.904	965718.06	0.1423	P	1.1
5	☐	1250.000	1260.325	1911220.14	0.2808	A	1.6
6	☐	2500.000	2524.509	3820310.24	0.5624	A	1.1
7	☐	5000.000	4983.342	7532549.04	1.1102	A	0.8
8	☐			3100.43	0.0005	P	7.2

$$y = 2.2278\text{E-}004 * x + 3.2815\text{E-}006$$

$$R = 1.0000$$

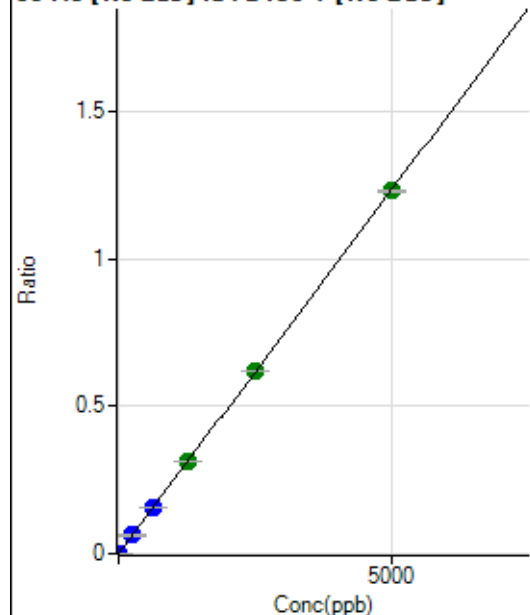
$$DL = 0.04153$$

$$BEC = 0.01473$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	69.45	0.0000	P	41.8
2	☐	5.000	4.899	8210.96	0.0012	P	4.1
3	☐	250.000	251.284	420097.20	0.0620	P	0.7
4	☐	625.000	631.850	1057279.80	0.1559	P	1.2
5	☐	1250.000	1268.893	2130436.96	0.3130	A	1.0
6	☐	2500.000	2512.558	4209740.68	0.6197	A	0.6
7	☐	5000.000	4988.077	8347307.57	1.2303	A	0.2
8	☐			3845.10	0.0006	P	3.0

$$y = 2.4665\text{E-}004 * x + 1.0201\text{E-}005$$

$$R = 1.0000$$

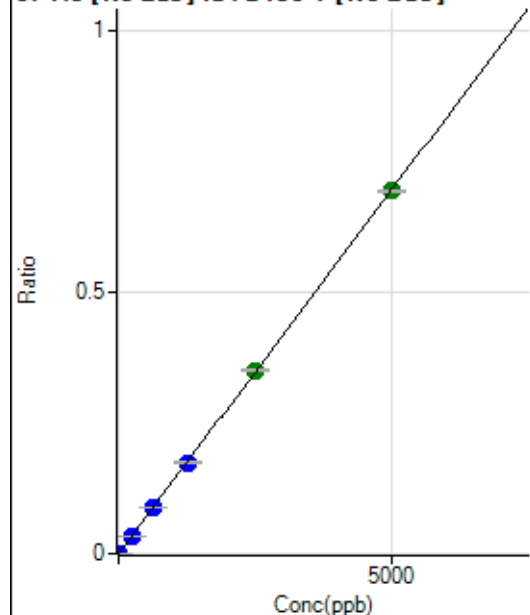
$$DL = 0.05181$$

$$BEC = 0.04136$$

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	8.33	0.0000	P	100.3
2	☐	5.000	4.971	4656.48	0.0007	P	7.5
3	☐	250.000	249.269	234429.86	0.0346	P	0.9
4	☐	625.000	630.745	593681.02	0.0875	P	2.5
5	☐	1250.000	1252.655	1183262.65	0.1738	P	1.0
6	☐	2500.000	2518.244	2373824.47	0.3495	A	0.8
7	☐	5000.000	4989.533	4697739.73	0.6924	A	0.6
8	☐			1855.73	0.0003	P	2.0

$$y = 1.3877\text{E-}004 * x + 1.2204\text{E-}006$$

$$R = 1.0000$$

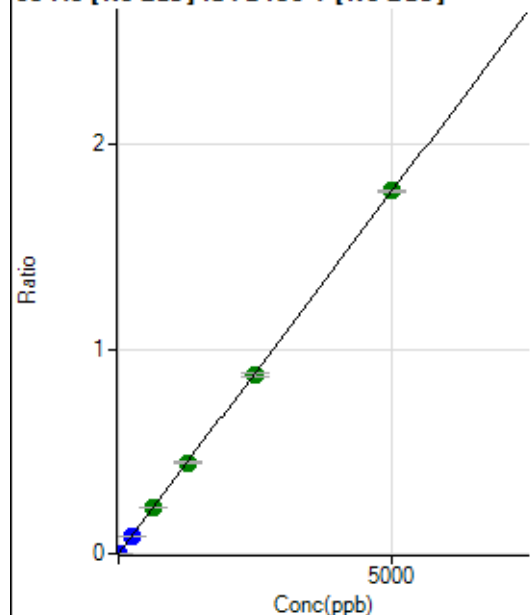
$$DL = 0.02646$$

$$BEC = 0.008794$$

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	19.44	0.0000	P	100.0
2	☐	5.000	5.049	12055.51	0.0018	P	3.2
3	☐	250.000	251.268	602388.59	0.0889	P	0.6
4	☐	625.000	634.468	1522232.78	0.2244	A	2.9
5	☐	1250.000	1259.122	3031894.12	0.4454	A	1.6
6	☐	2500.000	2467.160	5928056.17	0.8727	A	1.6
7	☐	5000.000	5012.892	12031513.64	1.7733	A	0.6
8	☐			4942.68	0.0007	P	3.3

$$y = 3.5375\text{E-}004 * x + 2.8818\text{E-}006$$

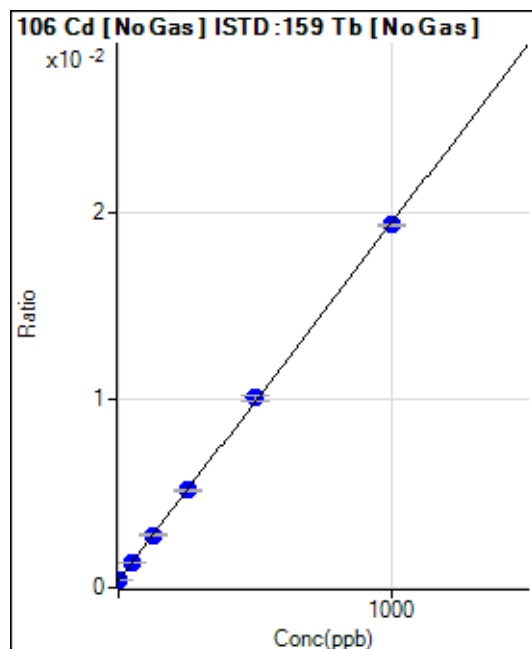
$$R = 1.0000$$

$$DL = 0.02444$$

$$BEC = 0.008146$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1530.68	0.0004	P	8.0
2	☐	1.000	1.243	1611.25	0.0004	P	7.0
3	☐	50.000	49.807	5312.28	0.0013	P	3.5
4	☐	125.000	127.020	11085.30	0.0028	P	1.5
5	☐	250.000	252.691	20557.45	0.0052	P	2.0
6	☐	500.000	509.402	40061.57	0.0101	P	2.2
7	☐	1000.000	994.383	76897.68	0.0193	P	0.8
8	☐			1675.15	0.0004	P	15.4

$$y = 1.9020\text{E-}005 * x + 3.9419\text{E-}004$$

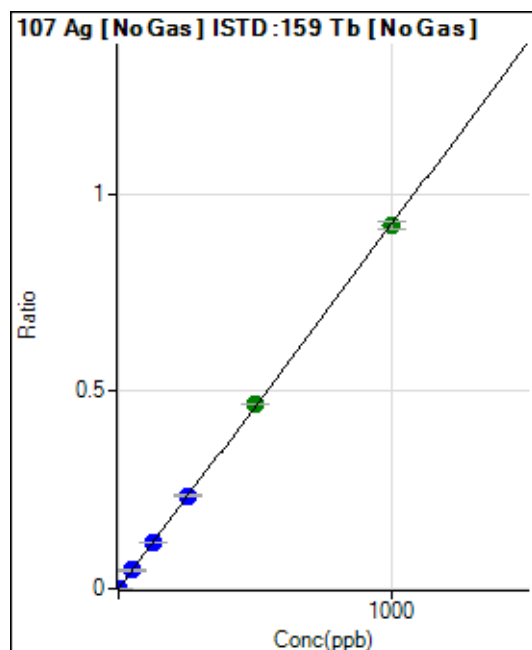
$$R = 0.9999$$

$$DL = 4.99$$

$$BEC = 20.73$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	58.33	0.0000	P	15.4
2	☐	1.000	0.942	3411.63	0.0009	P	3.4
3	☐	50.000	50.417	184385.02	0.0466	P	1.2
4	☐	125.000	128.571	468345.91	0.1187	P	0.4
5	☐	250.000	255.210	931618.58	0.2357	P	1.6
6	☐	500.000	505.559	1854913.30	0.4668	A	0.5
7	☐	1000.000	995.451	3660227.08	0.9191	A	2.0
8	☐			2536.42	0.0006	P	7.3

$$y = 9.2331\text{E-}004 * x + 1.5044\text{E-}005$$

$$R = 1.0000$$

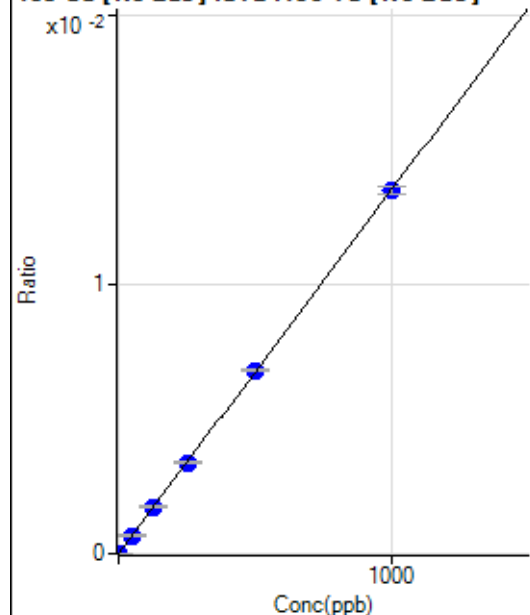
$$DL = 0.007534$$

$$BEC = 0.01629$$

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	5.55	0.0000	P	86.6
2	☐	1.000	1.650	91.67	0.0000	P	36.1
3	☐	50.000	49.404	2647.51	0.0007	P	3.0
4	☐	125.000	127.161	6779.52	0.0017	P	4.5
5	☐	250.000	250.795	13396.93	0.0034	P	1.6
6	☐	500.000	503.912	27047.47	0.0068	P	1.1
7	☐	1000.000	997.604	53656.65	0.0135	P	2.1
8	☐			70.83	0.0000	P	15.9

$$y = 1.3505\text{E-}005 * x + 1.4361\text{E-}006$$

$$R = 1.0000$$

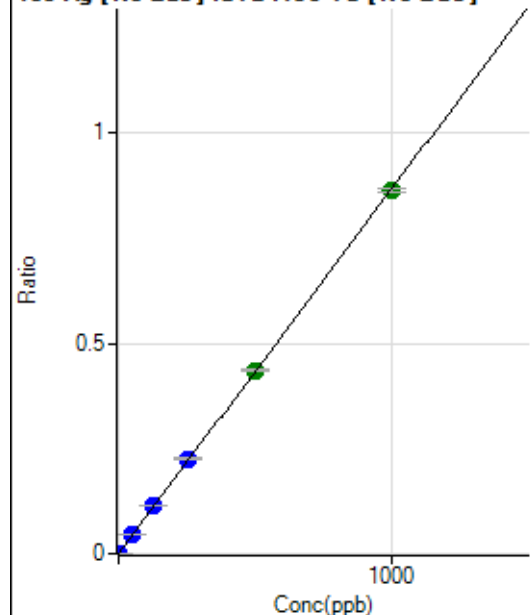
$$DL = 0.2763$$

$$BEC = 0.1063$$

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	13.89	0.0000	P	92.2
2	☐	1.000	1.026	3436.65	0.0009	P	11.9
3	☐	50.000	50.930	174571.95	0.0441	P	0.8
4	☐	125.000	130.304	444922.26	0.1128	P	0.7
5	☐	250.000	259.343	887443.62	0.2245	P	1.8
6	☐	500.000	503.244	1730936.04	0.4356	A	0.5
7	☐	1000.000	995.332	3431068.09	0.8615	A	1.2
8	☐			2353.05	0.0006	P	7.2

$$y = 8.6558\text{E-}004 * x + 3.5995\text{E-}006$$

$$R = 0.9999$$

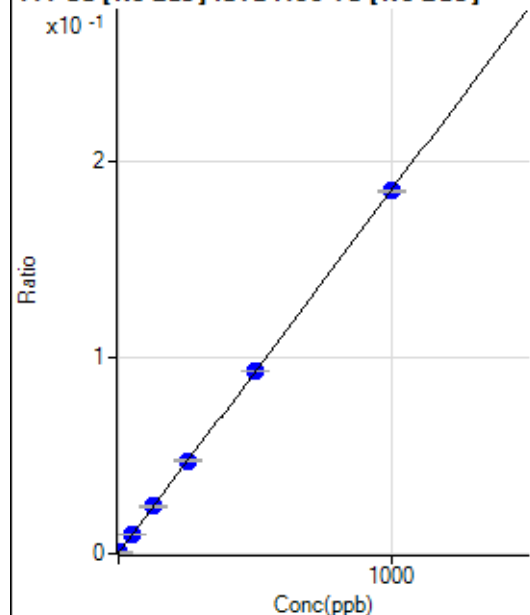
$$DL = 0.0115$$

$$BEC = 0.004158$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1078.70	0.0003	P	7.9
2	☐	1.000	1.186	1916.52	0.0005	P	5.0
3	☐	50.000	50.423	38011.46	0.0096	P	0.3
4	☐	125.000	128.429	94755.73	0.0240	P	0.6
5	☐	250.000	253.773	186569.77	0.0472	P	1.7
6	☐	500.000	501.288	369354.04	0.0930	P	0.1
7	☐	1000.000	997.963	735874.49	0.1848	P	0.8
8	☐			1571.65	0.0004	P	11.4

$$y = 1.8487\text{E-}004 * x + 2.7780\text{E-}004$$

$$R = 1.0000$$

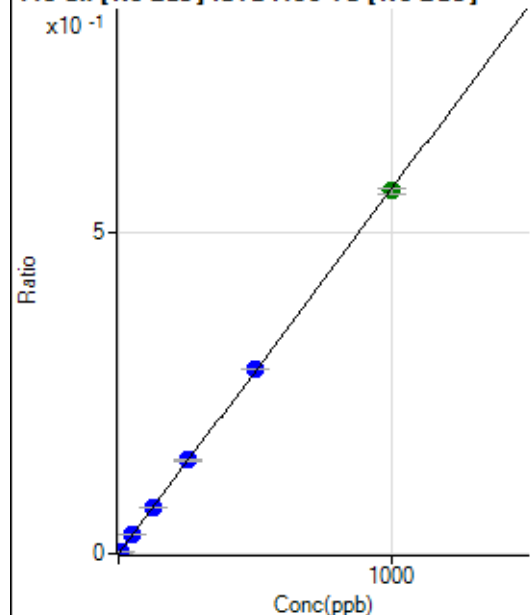
$$DL = 0.3577$$

$$BEC = 1.503$$

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	172.23	0.0000	P	18.6
2	☐	5.000	5.038	11207.68	0.0029	P	5.0
3	☐	50.000	50.732	114324.96	0.0289	P	1.7
4	☐	125.000	128.490	288179.82	0.0731	P	1.0
5	☐	250.000	256.488	576356.72	0.1458	P	1.7
6	☐	500.000	506.146	1143065.52	0.2877	P	0.9
7	☐	1000.000	994.832	2251577.96	0.5654	A	1.5
8	☐			1322.32	0.0003	P	4.7

$$y = 5.6824\text{E-}004 * x + 4.4313\text{E-}005$$

$$R = 0.9999$$

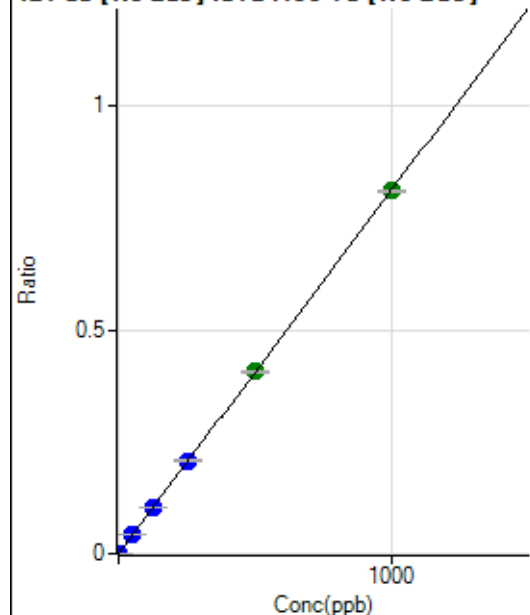
$$DL = 0.04357$$

$$BEC = 0.07798$$

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	19.44	0.0000	P	138.4
2	☐	2.000	1.875	5893.10	0.0015	P	3.6
3	☐	50.000	50.403	162143.08	0.0409	P	0.5
4	☐	125.000	128.918	413119.34	0.1047	P	0.9
5	☐	250.000	255.615	820855.30	0.2076	P	2.1
6	☐	500.000	500.283	1614924.64	0.4064	A	1.0
7	☐	1000.000	997.945	3228720.12	0.8107	A	0.7
8	☐			3197.69	0.0008	P	9.6

$$y = 8.1233\text{E-}004 * x + 5.0658\text{E-}006$$

$$R = 1.0000$$

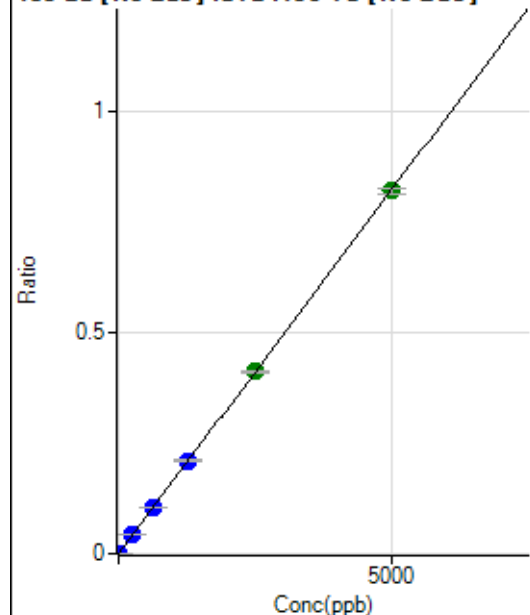
$$DL = 0.02589$$

$$BEC = 0.006236$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	27.78	0.0000	P	45.3
2	☐	10.000	9.823	6248.85	0.0016	P	3.2
3	☐	250.000	252.912	164451.84	0.0415	P	0.4
4	☐	625.000	640.804	415050.95	0.1052	P	0.4
5	☐	1250.000	1271.633	825395.71	0.2088	P	1.8
6	☐	2500.000	2508.290	1636487.02	0.4118	A	1.1
7	☐	5000.000	4988.326	3261763.44	0.8190	A	1.3
8	☐			6465.62	0.0017	P	3.7

$$y = 1.6418\text{E-}004 * x + 7.1512\text{E-}006$$

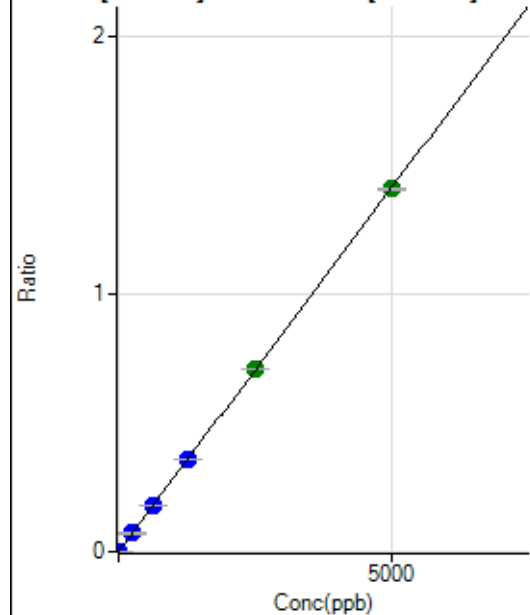
$$R = 1.0000$$

$$DL = 0.05919$$

$$BEC = 0.04356$$

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	61.11	0.0000	P	14.6
2	☐	10.000	10.219	11193.85	0.0029	P	3.0
3	☐	250.000	252.680	282638.02	0.0714	P	1.4
4	☐	625.000	637.831	710656.43	0.1802	P	0.8
5	☐	1250.000	1267.293	1415032.26	0.3579	P	1.7
6	☐	2500.000	2513.164	2820521.51	0.7098	A	0.7
7	☐	5000.000	4987.356	5610121.39	1.4086	A	0.7
8	☐			10982.57	0.0028	P	3.3

$$y = 2.8243E-004 * x + 1.5724E-005$$

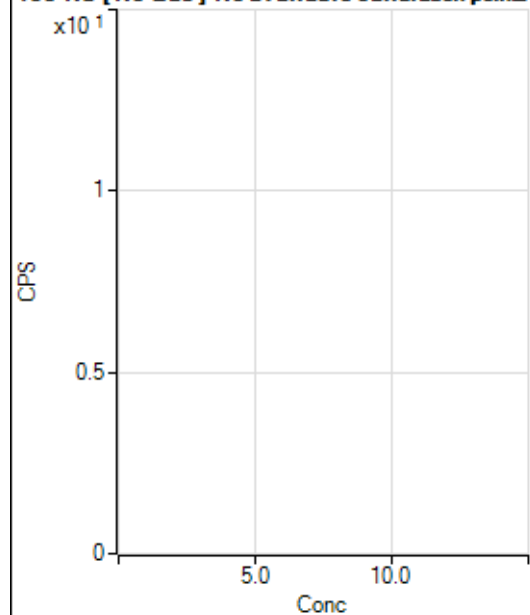
$$R = 1.0000$$

$$DL = 0.02444$$

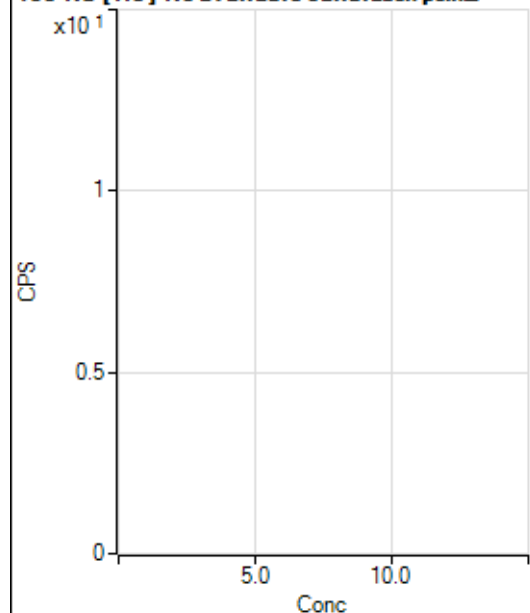
$$BEC = 0.05567$$

Weight: <None>

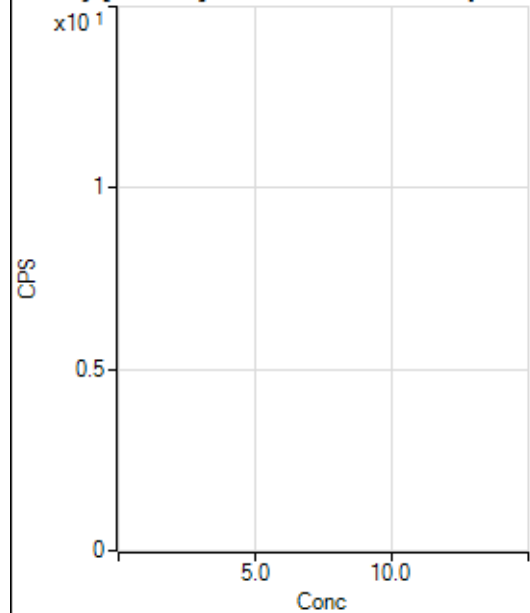
Min Conc: 0

150 Nd [No Gas] No available calibration points

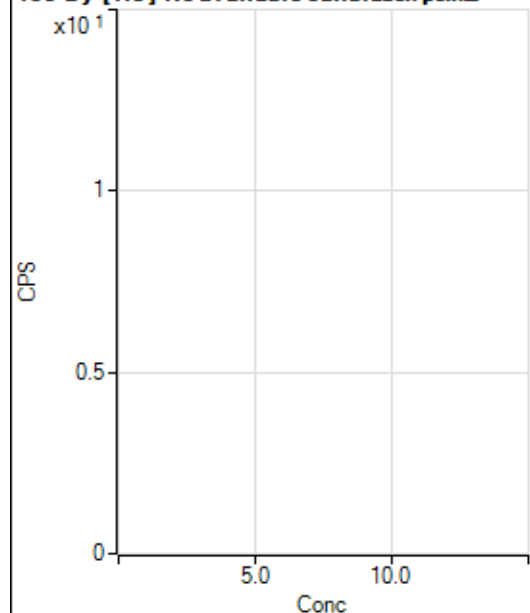
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			11.11		P	34.6
3	☐			17.78		P	114.6
4	☐			28.89		P	53.3
5	☐			51.11		P	27.2
6	☐			66.67		P	17.3
7	☐			153.34		P	19.0
8	☐			8.89		P	86.6

150 Nd [He] No available calibration points

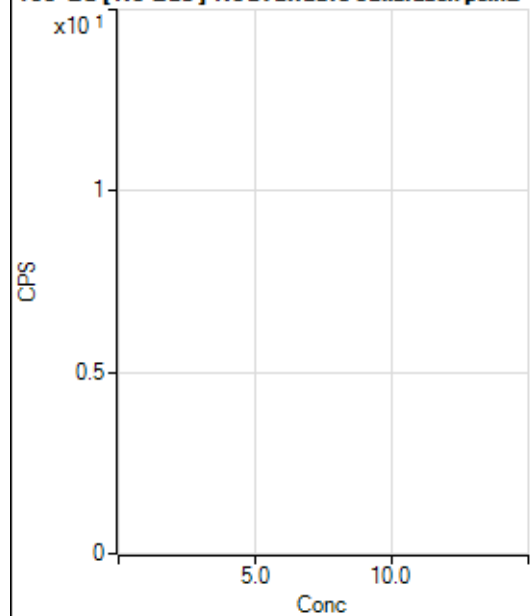
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			0.00		P	
3	☐			0.00		P	
4	☐			5.56		P	34.7
5	☐			4.44		P	114.6
6	☐			5.56		P	34.7
7	☐			6.67		P	0.0
8	☐			7.78		P	65.5

156 Dy [No Gas] No available calibration points

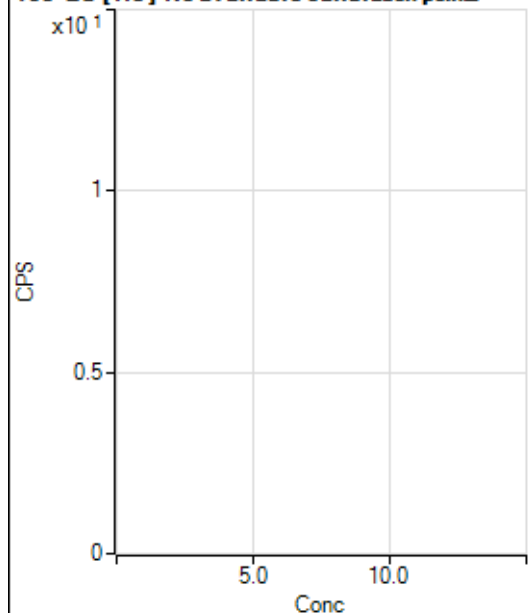
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.0
2	☐			8.33		P	100.0
3	☐			33.33		P	90.1
4	☐			13.89		P	91.6
5	☐			38.89		P	32.7
6	☐			44.45		P	10.8
7	☐			83.34		P	45.8
8	☐			191.68		P	23.0

156 Dy [He] No available calibration points

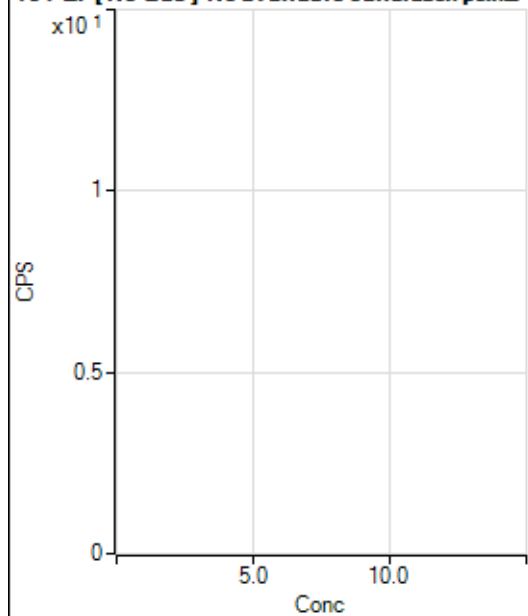
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			2.22		P	86.6
3	☐			1.11		P	173.2
4	☐			2.22		P	86.6
5	☐			10.00		P	88.2
6	☐			14.44		P	13.4
7	☐			18.89		P	27.0
8	☐			81.11		P	20.7

160 Gd [No Gas] Noavailable calibration poin_

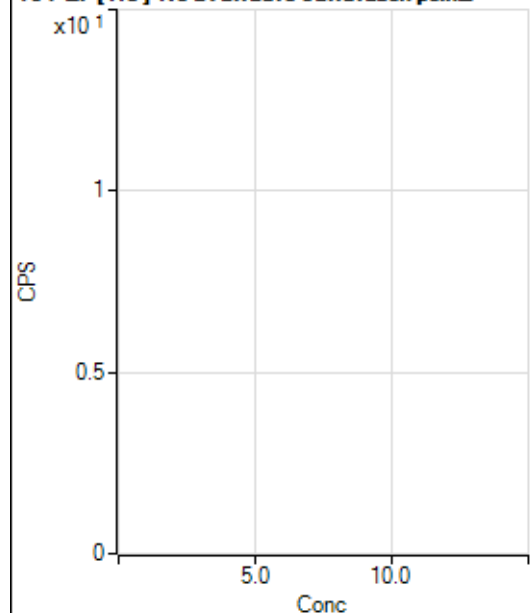
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.45		P	57.3
2	☐			16.67		P	50.0
3	☐			22.22		P	21.6
4	☐			61.11		P	47.9
5	☐			61.11		P	51.6
6	☐			55.56		P	56.8
7	☐			72.22		P	17.6
8	☐			261.12		P	6.6

160 Gd [He] No available calibration points

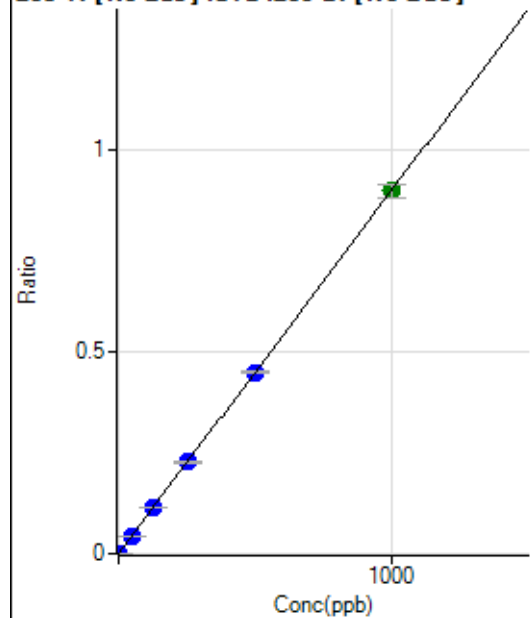
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	43.3
2	☐			12.22		P	41.7
3	☐			4.44		P	43.4
4	☐			13.33		P	43.3
5	☐			10.00		P	0.0
6	☐			21.11		P	39.7
7	☐			28.89		P	17.6
8	☐			130.00		P	26.8

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.44		P	49.5
2	☐			22.22		P	57.3
3	☐			27.78		P	96.4
4	☐			25.00		P	33.3
5	☐			47.23		P	40.8
6	☐			41.67		P	20.0
7	☐			25.00		P	57.7
8	☐			47.22		P	36.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	89.2
2	☐			8.89		P	21.6
3	☐			6.67		P	100.0
4	☐			16.67		P	52.9
5	☐			10.00		P	88.2
6	☐			7.78		P	24.7
7	☐			21.11		P	63.8
8	☐			15.56		P	12.4

203 Tl [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	0.966	1841.85	0.0009	P	7.9
3	☐	50.000	49.836	96194.53	0.0449	P	1.3
4	☐	125.000	127.099	241153.73	0.1144	P	0.1
5	☐	250.000	251.757	481774.25	0.2267	P	2.0
6	☐	500.000	500.008	959993.34	0.4502	P	1.8
7	☐	1000.000	999.302	1895885.44	0.8998	A	4.0
8	☐			1633.49	0.0008	P	6.3

$$y = 9.0042\text{E-}004 * x + 2.6604\text{E-}006$$

$$R = 1.0000$$

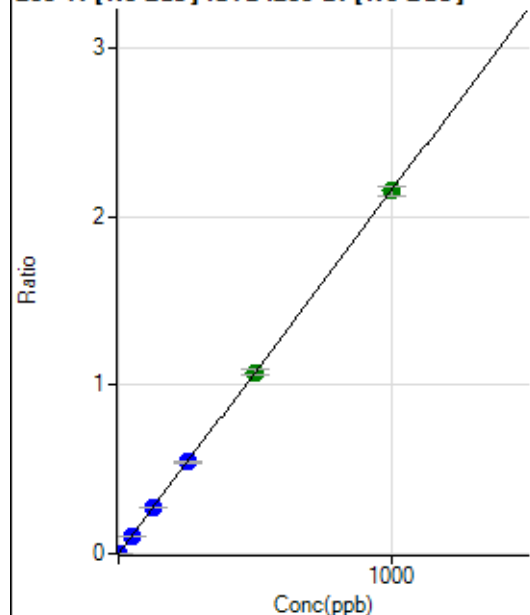
$$DL = 0.007679$$

$$BEC = 0.002955$$

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	19.44	0.0000	P	67.2
2	☐	1.000	0.994	4537.03	0.0021	P	4.6
3	☐	50.000	49.689	229261.79	0.1070	P	1.3
4	☐	125.000	127.057	576232.78	0.2735	P	0.6
5	☐	250.000	253.455	1159326.03	0.5455	P	2.4
6	☐	500.000	499.526	2292285.03	1.0751	A	2.7
7	☐	1000.000	999.132	4532005.18	2.1504	A	2.5
8	☐			3875.68	0.0019	P	6.7

$$y = 0.0022 * x + 9.3398E-006$$

$$R = 1.0000$$

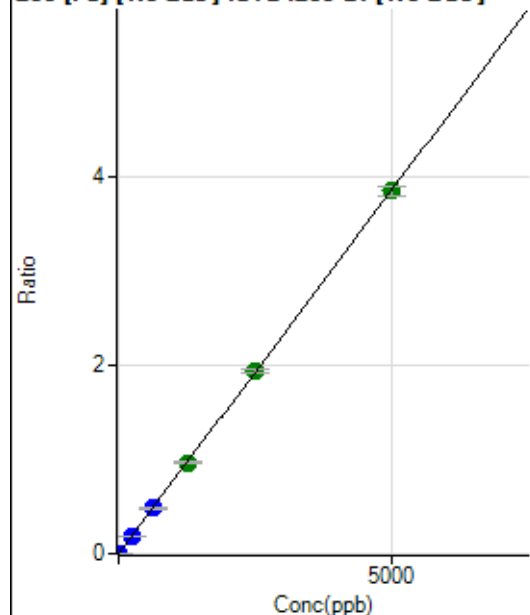
$$DL = 0.008747$$

$$BEC = 0.00434$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	275.93	0.0001	P	13.1
2	☐	1.000	0.899	1744.60	0.0008	P	3.5
3	☐	250.000	245.992	407455.21	0.1901	P	1.1
4	☐	625.000	623.972	1015536.60	0.4819	P	0.7
5	☐	1250.000	1254.333	2058893.81	0.9687	A	1.4
6	☐	2500.000	2510.500	4133927.96	1.9387	A	1.7
7	☐	5000.000	4993.996	8127357.36	3.8564	A	2.5
8	☐			10348.74	0.0051	P	2.3

$$y = 7.7218E-004 * x + 1.3174E-004$$

$$R = 1.0000$$

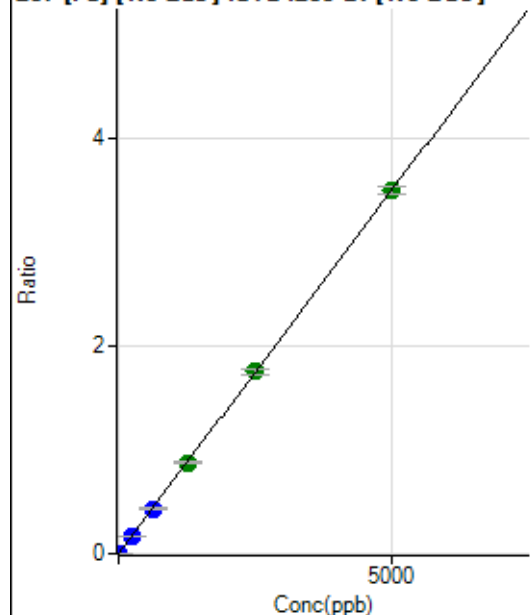
$$DL = 0.06693$$

$$BEC = 0.1706$$

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	262.97	0.0001	P	17.9
2	☐	1.000	0.907	1603.82	0.0008	P	1.8
3	☐	250.000	241.919	362675.52	0.1692	P	0.9
4	☐	625.000	619.254	912152.49	0.4329	P	1.0
5	☐	1250.000	1255.338	1864937.73	0.8774	A	0.8
6	☐	2500.000	2505.952	3734191.92	1.7514	A	3.1
7	☐	5000.000	4996.812	7360182.45	3.4921	A	2.2
8	☐			9701.95	0.0048	P	6.3

$$y = 6.9884\text{E-}004 * x + 1.2567\text{E-}004$$

$$R = 1.0000$$

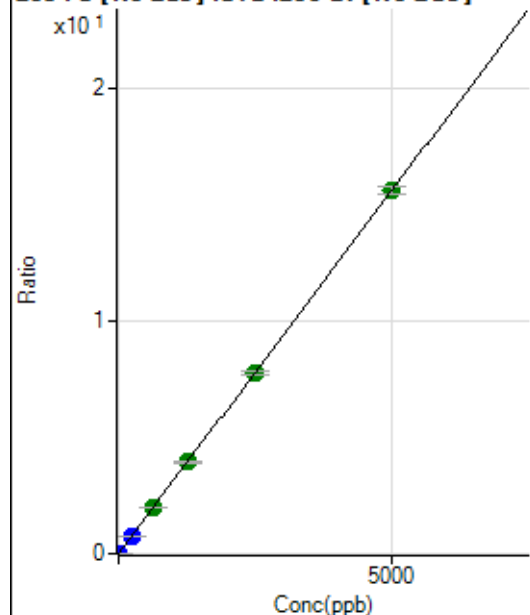
$$DL = 0.09654$$

$$BEC = 0.1798$$

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	1181.53	0.0006	P	6.7
2	☐	1.000	0.901	7126.83	0.0034	P	0.7
3	☐	250.000	244.206	1634239.14	0.7624	P	0.5
4	☐	625.000	629.279	4137580.12	1.9636	A	1.0
5	☐	1250.000	1259.344	8351110.78	3.9291	A	1.1
6	☐	2500.000	2493.208	16585189.00	7.7782	A	2.0
7	☐	5000.000	5000.815	32880581.75	15.6007	A	2.2
8	☐			42924.80	0.0213	P	2.0

$$y = 0.0031 * x + 5.6347\text{E-}004$$

$$R = 1.0000$$

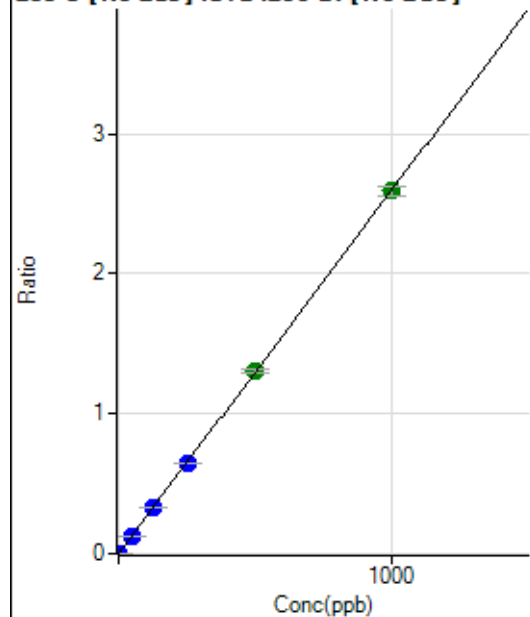
$$DL = 0.03613$$

$$BEC = 0.1806$$

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	19.44	0.0000	P	50.1
2	☐	1.000	0.943	5190.10	0.0025	P	5.5
3	☐	50.000	49.267	274142.06	0.1279	P	1.0
4	☐	125.000	125.520	686534.84	0.3258	P	0.8
5	☐	250.000	249.457	1376301.56	0.6475	P	0.7
6	☐	500.000	502.005	2778310.52	1.3030	A	2.5
7	☐	1000.000	999.105	5465577.29	2.5933	A	2.4
8	☐			1377.90	0.0007	P	2.3

$$y = 0.0026 * x + 9.3050E-006$$

$$R = 1.0000$$

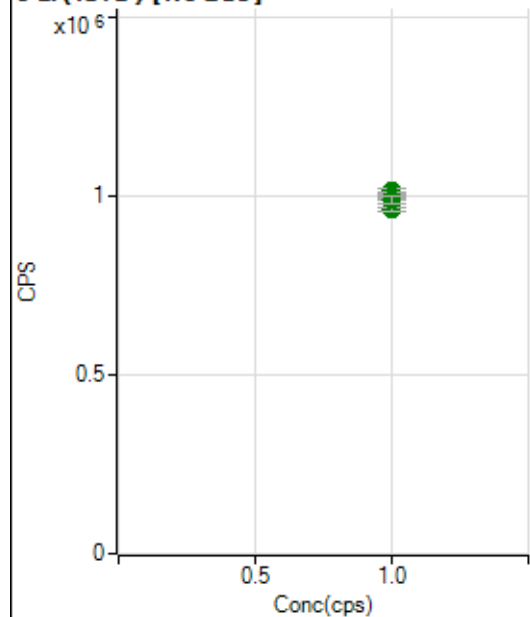
$$DL = 0.005387$$

$$BEC = 0.003585$$

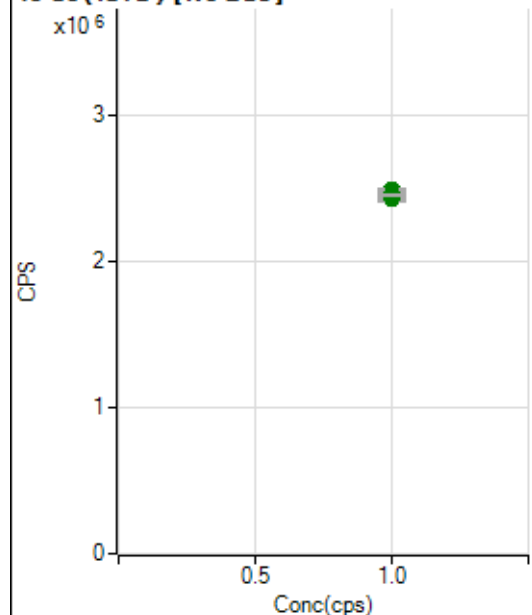
Weight: <None>

Min Conc: 0

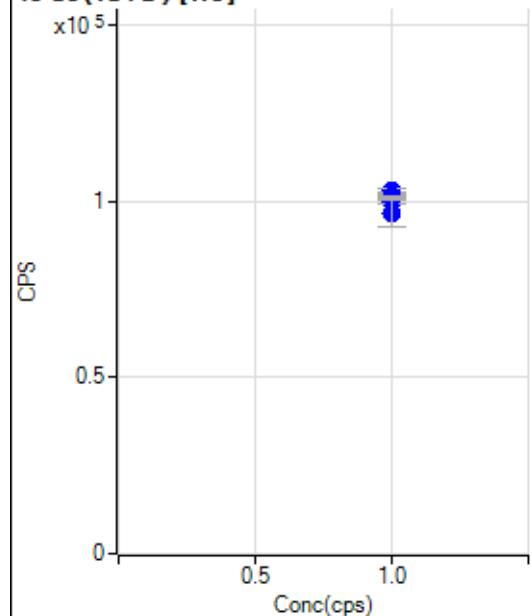
6 Li (ISTD) [No Gas]



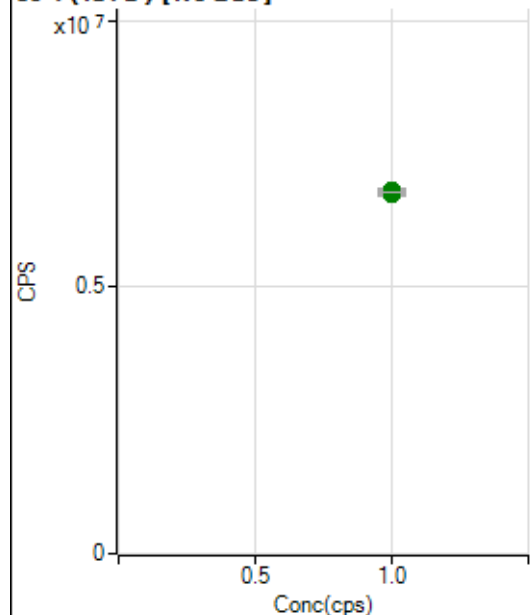
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		998856.11		A	1.4
2	☐	1.000		992020.45		A	0.8
3	☐	1.000		999257.70		A	1.5
4	☐	1.000		1015410.00		A	0.9
5	☐	1.000		1003435.74		A	1.4
6	☐	1.000		989051.83		A	1.7
7	☐	1.000		962390.57		A	1.2
8	☐	1.000		988533.31		A	2.1

45 Sc (ISTD) [No Gas]

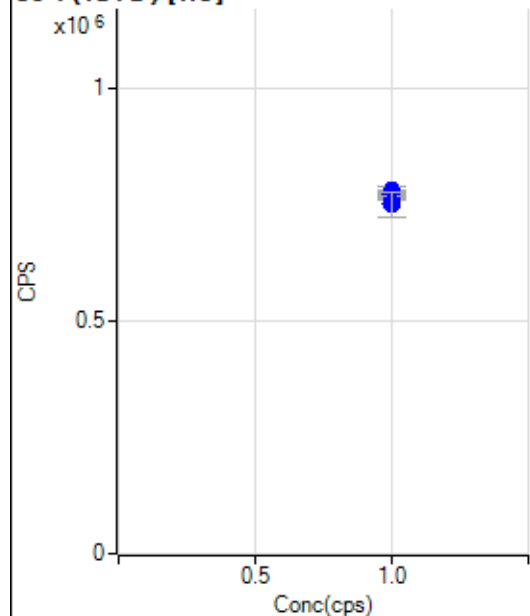
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2438754.97		A	2.3
2	☐	1.000		2441983.83		A	1.0
3	☐	1.000		2465334.16		A	0.8
4	☐	1.000		2481972.80		A	1.5
5	☐	1.000		2450500.41		A	0.5
6	☐	1.000		2457642.92		A	2.1
7	☐	1.000		2444927.03		A	2.0
8	☐	1.000		2452432.34		A	0.5

45 Sc (ISTD) [He]

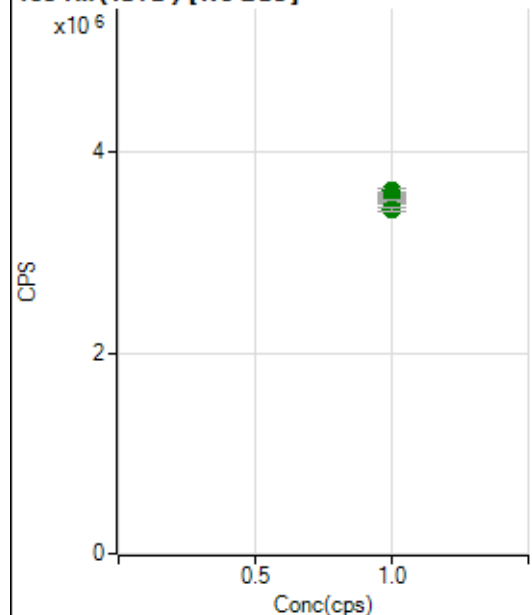
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		100470.11		P	0.4
2	☐	1.000		99953.17		P	0.9
3	☐	1.000		101587.83		P	1.7
4	☐	1.000		100777.83		P	0.7
5	☐	1.000		102930.02		P	1.8
6	☐	1.000		101553.07		P	0.5
7	☐	1.000		101187.51		P	0.3
8	☐	1.000		96391.94		P	8.0

89 Y (ISTD) [No Gas]

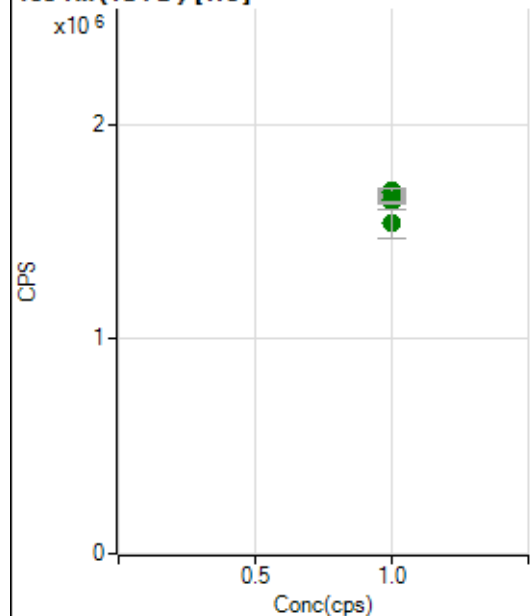
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6795917.68		A	1.2
2	☐	1.000		6738652.33		A	0.5
3	☐	1.000		6777011.77		A	0.3
4	☐	1.000		6784841.50		A	2.0
5	☐	1.000		6807487.89		A	1.4
6	☐	1.000		6793255.94		A	1.3
7	☐	1.000		6784766.15		A	0.3
8	☐	1.000		6785898.58		A	0.3

89 Y (ISTD) [He]

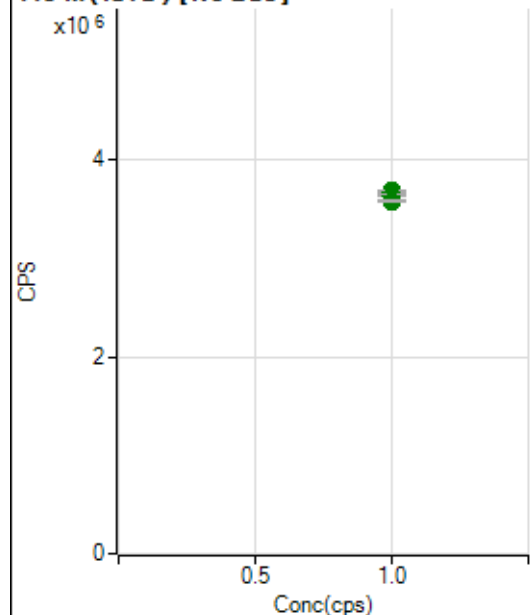
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		768894.11		P	0.8
2	☐	1.000		763109.66		P	0.5
3	☐	1.000		778219.91		P	1.4
4	☐	1.000		771493.26		P	0.3
5	☐	1.000		781082.35		P	2.5
6	☐	1.000		780110.57		P	0.5
7	☐	1.000		774520.07		P	0.7
8	☐	1.000		752295.38		P	7.4

103 Rh (ISTD) [No Gas]

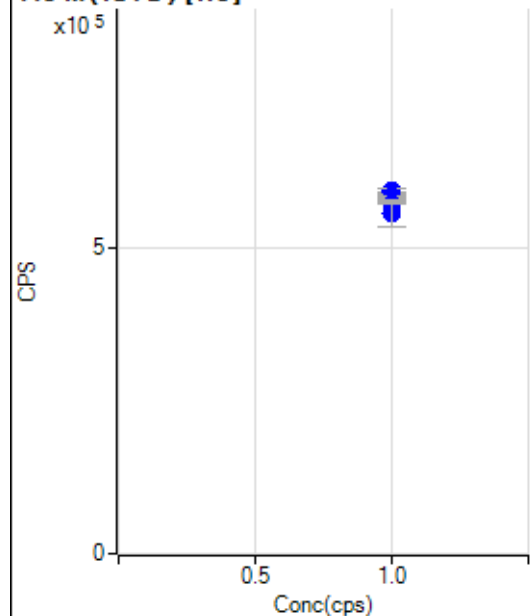
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3617157.16		A	1.0
2	☐	1.000		3567627.20		A	1.2
3	☐	1.000		3577493.57		A	1.0
4	☐	1.000		3573560.24		A	0.4
5	☐	1.000		3530106.46		A	1.9
6	☐	1.000		3539780.03		A	0.4
7	☐	1.000		3516620.83		A	0.6
8	☐	1.000		3428490.53		A	1.0

103 Rh (ISTD) [He]

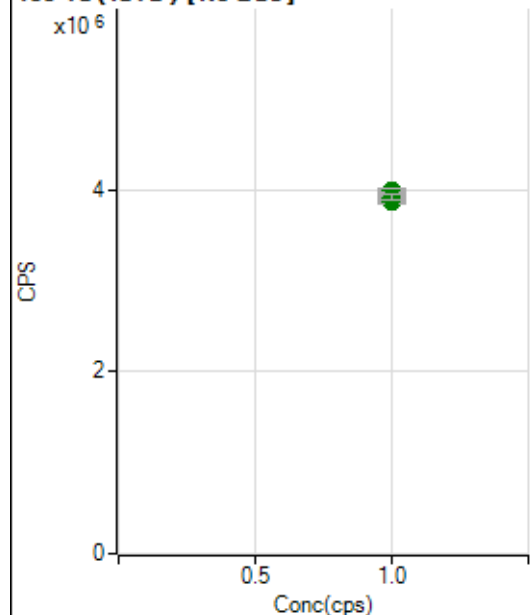
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1671257.77		A	1.7
2	☐	1.000		1646458.40		A	1.2
3	☐	1.000		1690430.88		A	0.7
4	☐	1.000		1661607.58		A	1.7
5	☐	1.000		1683468.39		A	2.1
6	☐	1.000		1651050.44		A	1.0
7	☐	1.000		1638378.02		A	0.7
8	☐	1.000		1536769.23		A	8.2

115 In (ISTD) [No Gas]

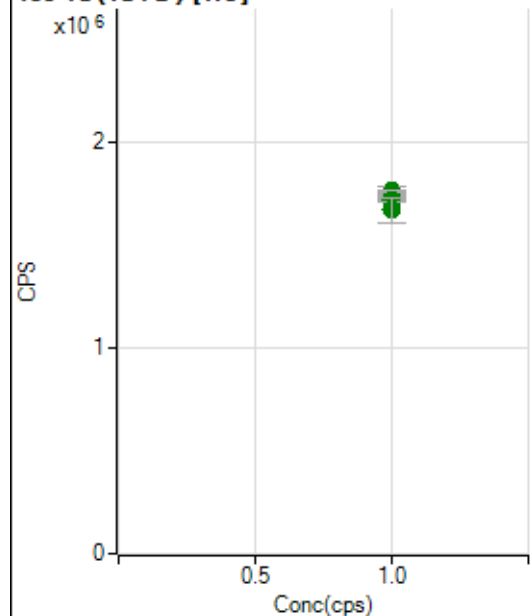
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3644898.51		A	0.2
2	☐	1.000		3654137.76		A	0.9
3	☐	1.000		3689745.13		A	0.2
4	☐	1.000		3667790.66		A	0.6
5	☐	1.000		3653176.76		A	0.4
6	☐	1.000		3667991.43		A	1.5
7	☐	1.000		3633847.26		A	1.8
8	☐	1.000		3584399.28		A	0.5

115 In (ISTD) [He]

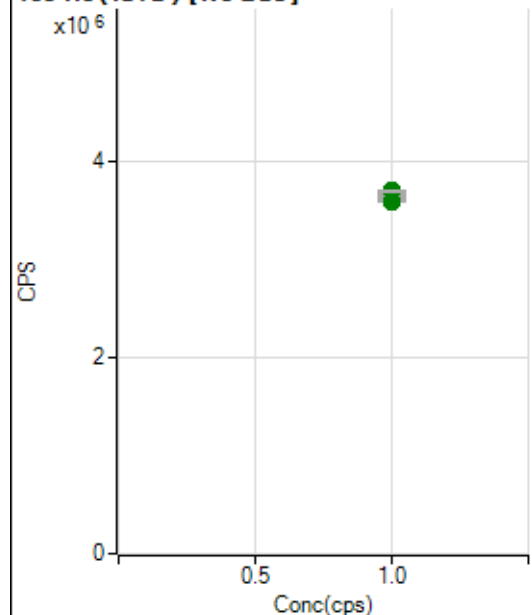
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		581468.59		P	0.6
2	☐	1.000		575711.63		P	0.5
3	☐	1.000		591446.19		P	1.2
4	☐	1.000		583966.47		P	0.3
5	☐	1.000		590402.83		P	2.3
6	☐	1.000		582140.66		P	0.6
7	☐	1.000		571574.90		P	0.6
8	☐	1.000		554288.11		P	7.6

159 Tb (ISTD) [No Gas]

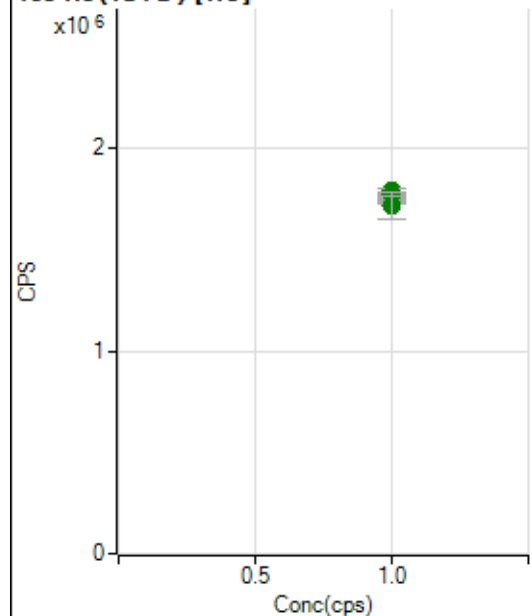
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3881953.34		A	1.2
2	☐	1.000		3857210.22		A	1.3
3	☐	1.000		3959684.97		A	0.4
4	☐	1.000		3944682.37		A	0.6
5	☐	1.000		3954013.66		A	1.7
6	☐	1.000		3973588.38		A	0.6
7	☐	1.000		3982714.97		A	1.0
8	☐	1.000		3910052.55		A	1.8

159 Tb (ISTD) [He]

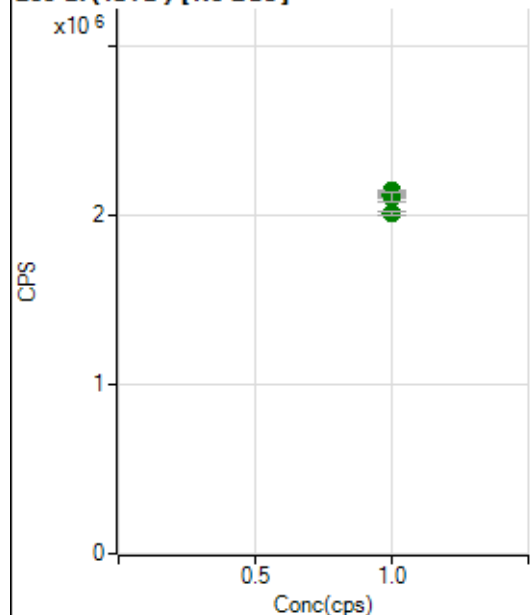
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1714576.52		A	1.0
2	☐	1.000		1719111.47		A	1.2
3	☐	1.000		1750971.29		A	0.8
4	☐	1.000		1729163.95		A	1.4
5	☐	1.000		1763027.86		A	2.3
6	☐	1.000		1757479.12		A	0.5
7	☐	1.000		1720584.09		A	0.9
8	☐	1.000		1668669.14		A	7.5

165 Ho (ISTD) [No Gas]

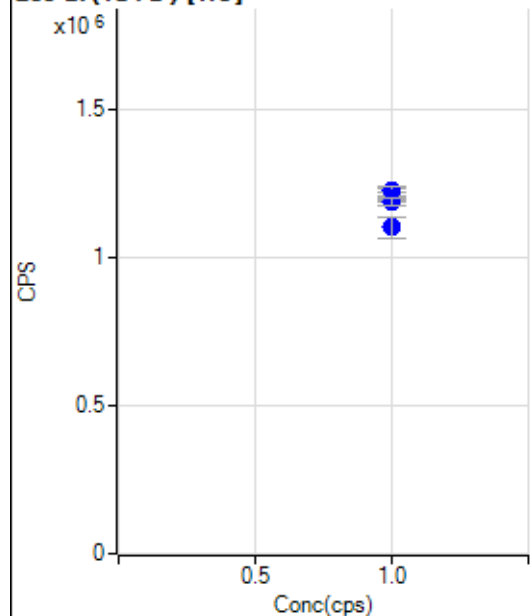
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3597630.07		A	0.8
2	☐	1.000		3614093.00		A	0.2
3	☐	1.000		3647257.59		A	0.9
4	☐	1.000		3671489.06		A	1.2
5	☐	1.000		3701118.70		A	0.7
6	☐	1.000		3681383.07		A	1.3
7	☐	1.000		3663603.99		A	0.3
8	☐	1.000		3698201.17		A	0.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1734472.59		A	1.1
2	☐	1.000		1732695.58		A	1.0
3	☐	1.000		1791008.90		A	1.8
4	☐	1.000		1775790.70		A	0.4
5	☐	1.000		1775354.16		A	2.7
6	☐	1.000		1766391.62		A	1.8
7	☐	1.000		1773471.43		A	0.7
8	☐	1.000		1715810.23		A	7.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2096995.49		A	1.8
2	☐	1.000		2112178.89		A	1.4
3	☐	1.000		2143660.63		A	0.5
4	☐	1.000		2107167.97		A	0.3
5	☐	1.000		2125653.81		A	1.4
6	☐	1.000		2132627.15		A	1.4
7	☐	1.000		2108303.06		A	2.3
8	☐	1.000		2012651.88		A	1.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1190082.42		P	0.9
2	☐	1.000		1194317.19		P	0.2
3	☐	1.000		1224125.88		P	1.1
4	☐	1.000		1207965.86		P	0.1
5	☐	1.000		1223445.82		P	2.9
6	☐	1.000		1202459.68		P	0.2
7	☐	1.000		1187701.95		P	1.8
8	☐	1.000		1100940.01		P	6.8

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8110420\IMS.b
Acq. Date-Time 2020-11-04 08:26:06
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		1726	17258.74			0.740	5.000
24		21380	213797.55			0.940	5.000
25		2889	28894.85			0.983	5.000
26		3249	32486.45			0.370	5.000
59		11738	117380.92			0.673	5.000
113		1836	18358.14			0.615	5.000
115		6458	64581.16			3.047	5.000
206		1864	18643.08			1.700	5.000
207		1569	15689.23			0.409	5.000
208		3839	38391.27			1.055	5.000
220		1	10.90			22.798	

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

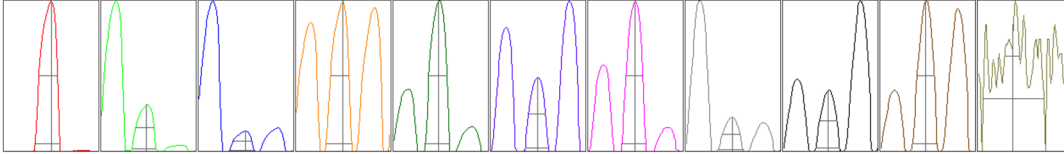
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	1706	1723	1728	1734	1739
24	21056	21331	21442	21502	21569
25	2855	2882	2873	2918	2919
26	3254	3235	3236	3258	3260
59	11714	11690	11647	11836	11803
113	1842	1828	1823	1834	1852
115	6715	6609	6403	6297	6266
206	1843	1842	1855	1919	1862
207	1559	1565	1572	1574	1574
208	3781	3836	3825	3881	3873

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	3099.62	9.05	8.90 - 9.10	
24	38285.08	23.95	23.90 - 24.10	
25	5065.73	25.00	24.90 - 25.10	
26	5907.08	26.00	25.90 - 26.10	
59	21707.88	58.95	58.90 - 59.10	
113	3597.85	113.00	112.90 - 113.10	
115	12794.55	115.00	114.90 - 115.10	
206	3558.83	206.00	205.90 - 206.10	
207	2990.30	206.95	206.90 - 207.10	
208	7416.54	207.95	207.90 - 208.10	
220	1.30	219.65	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.777	0.900	
24	0.59	0.748	0.900	
25	0.61	0.778	0.900	
26	0.59	0.815	0.900	
59	0.57	0.766	0.900	
113	0.53	0.728	0.900	
115	0.52	0.758	0.900	
206	0.55	0.772	0.900	
207	0.54	0.745	0.900	
208	0.54	0.771	0.900	
220	0.47	1.919		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.51 L/min Dilution Gas 0.46 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.6 V	Deflect	14.2 V
Extract 2	-240.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 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	122	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	-0.2 mm
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EM

Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1320 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		2816	28156.96			1.136	
89		6388	63875.45			1.146	
205		4798	47977.87			2.806	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	2853	2841	2811	2801	2773
89	6497	6350	6369	6418	6305
205	4937	4800	4875	4797	4580

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.51 L/min	Dilution Gas	0.46 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.6 V	Deflect	4.4 V
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US EPA Tune Check Report

Extract 2	-240.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 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	122	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	0.7 mm	Torch V	-0.2 mm		
EM					
Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1320 V