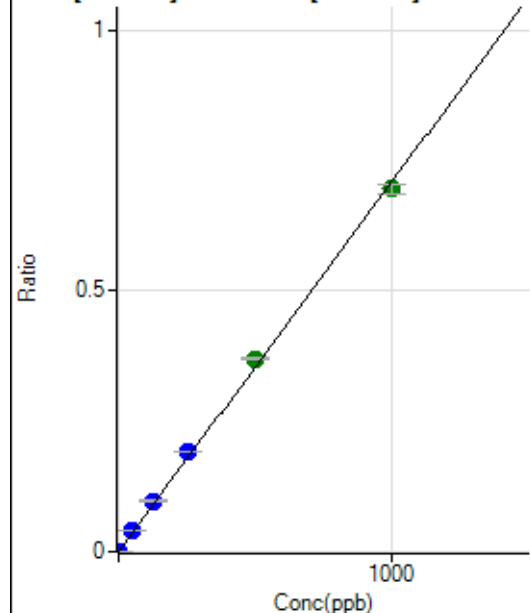


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8022123-MS.b\
Analysis File: P8022123-MS.batch.bin
DA Date-Time: 2023-02-22 10:16:33
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-02-21 11:55:32
2	005CAL.S.d	S02	2023-02-21 11:58:41
3	006CAL.S.d	S03	2023-02-21 12:01:52
4	007CAL.S.d	S04	2023-02-21 12:04:59
5	008CAL.S.d	S05	2023-02-21 12:08:07
6	009CAL.S.d	S06	2023-02-21 12:11:13
7	010CAL.S.d	S07	2023-02-21 12:14:21
8	011CAL.S.d	S08	2023-02-21 12:17:28

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	45.83	0.0000	P	13.1
2	☐	1.000	1.100	3234.13	0.0008	P	1.6
3	☐	50.000	55.560	159497.16	0.0394	P	2.3
4	☐	125.000	137.318	394726.87	0.0972	P	1.5
5	☐	250.000	269.618	772341.64	0.1909	P	0.9
6	☐	500.000	522.246	1496454.61	0.3698	A	1.1
7	☐	1000.000	982.155	2847045.63	0.6955	A	2.3
8	☐			685.35	0.0002	P	9.3

$$y = 7.0808\text{E-}004 * x + 1.1187\text{E-}005$$

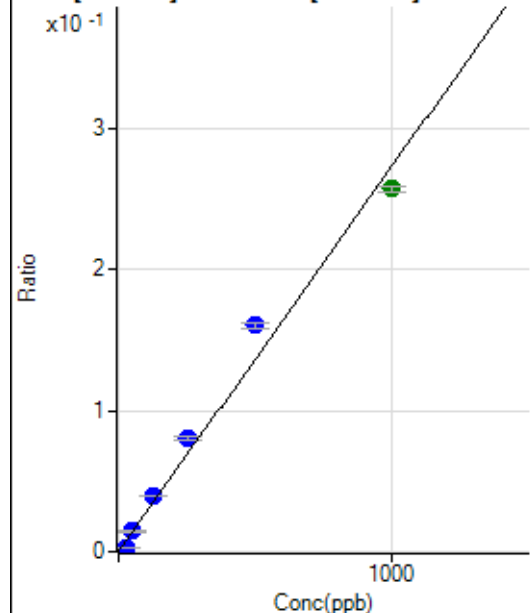
$$R = 0.9994$$

$$DL = 0.006199$$

$$BEC = 0.0158$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	459.25	0.0001	P	13.8
2	☐	25.000	9.043	10533.69	0.0026	P	2.1
3	☐	50.000	52.729	58648.26	0.0145	P	2.7
4	☐	125.000	144.311	159937.23	0.0394	P	2.9
5	☐	250.000	292.367	322476.67	0.0797	P	3.4
6	☐	500.000	588.759	649190.90	0.1604	P	2.6
7	☐	1000.000	942.877	1051760.61	0.2568	A	1.4
8	☐			65300.56	0.0176	P	9.9

$$y = 2.7228\text{E-}004 * x + 1.1234\text{E-}004$$

$$R = 0.9920$$

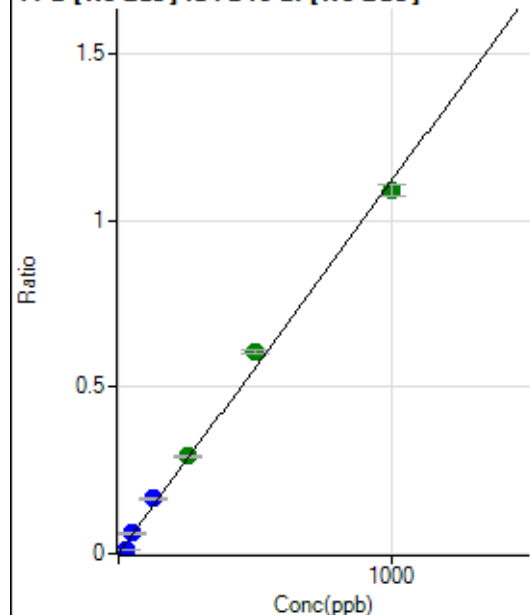
$$DL = 0.1707$$

$$BEC = 0.4126$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1925.08	0.0005	P	4.2
2	☐	25.000	9.211	44028.27	0.0108	P	4.2
3	☐	50.000	54.099	246927.52	0.0609	P	3.1
4	☐	125.000	148.473	675236.93	0.1664	P	3.7
5	☐	250.000	262.185	1186958.63	0.2934	A	1.5
6	☐	500.000	541.036	2448341.75	0.6050	A	2.3
7	☐	1000.000	973.692	4457341.22	1.0884	A	3.1
8	☐			272153.49	0.0733	P	9.9

$$y = 0.0011 * x + 4.7038E-004$$

$$R = 0.9981$$

$$DL = 0.05281$$

$$BEC = 0.421$$

Weight: <None>

Min Conc: 0

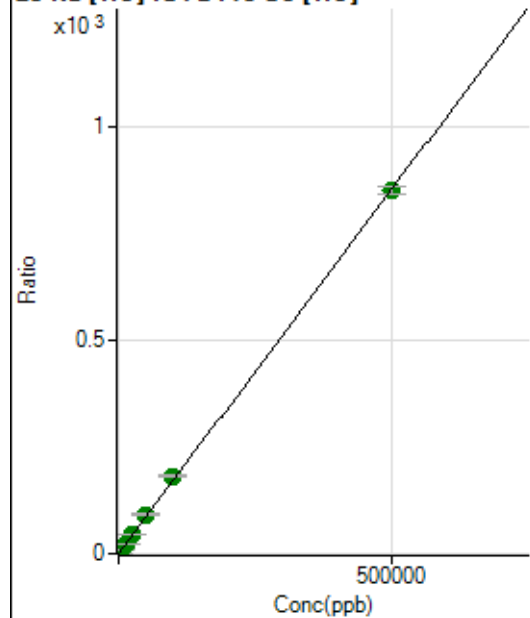
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			4168581.91		A	1.4
2	☐			4353848.23		A	0.5
3	☐			5026843.21		A	1.1
4	☐			5289412.31		A	2.4
5	☐			5412294.13		A	2.4
6	☐			5562894.87		A	2.7
7	☐			5798534.07		A	2.1
8	☐			5093639.22		A	1.5

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			53470.03		P	1.4
2	☐			53927.03		P	0.3
3	☐			65702.55		P	0.2
4	☐			69570.56		P	0.3
5	☐			70109.43		P	1.7
6	☐			72886.12		P	1.5
7	☐			77839.47		P	1.0
8	☐			72046.25		P	2.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12169.23	0.0679	P	2.2
2	☐	500.000	489.350	162584.98	0.9018	P	2.8
3	☐	5000.000	5164.353	1619200.01	8.8686	A	5.8
4	☐	12500.000	12994.165	3999924.44	22.2115	A	3.3
5	☐	25000.000	26679.530	7940962.76	45.5330	A	2.2
6	☐	50000.000	54037.698	16308583.87	92.1546	A	3.2
7	☐	100000.00	106304.42	31876091.69	181.2233	A	1.9
8	☐	500000.00	498237.38	144182603.2	849.1234	A	2.0

$$y = 0.0017 * x + 0.0679$$

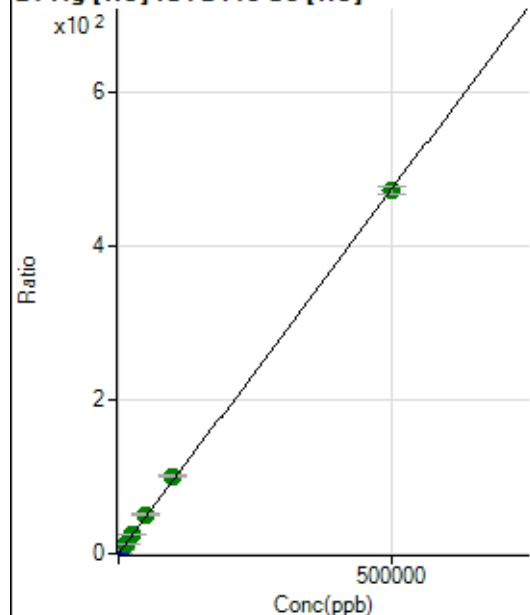
$$R = 0.9999$$

$$DL = 2.624$$

$$BEC = 39.86$$

Weight: <None>

Min Conc: 0

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

	Rj	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	594.47	0.0033	P	7.1
2	☐	500.000	498.080	85632.41	0.4750	P	2.9
3	☐	5000.000	5343.695	924763.32	5.0636	P	4.7
4	☐	12500.000	13279.022	2264255.37	12.5781	A	4.7
5	☐	25000.000	26913.875	4445232.65	25.4898	A	1.5
6	☐	50000.000	53722.496	9003255.84	50.8766	A	3.4
7	☐	100000.00	106553.80	17748874.53	100.9059	A	1.7
8	☐	500000.00	498198.38	80111605.96	471.7791	A	2.2

$$y = 9.4696\text{E-}004 * x + 0.0033$$

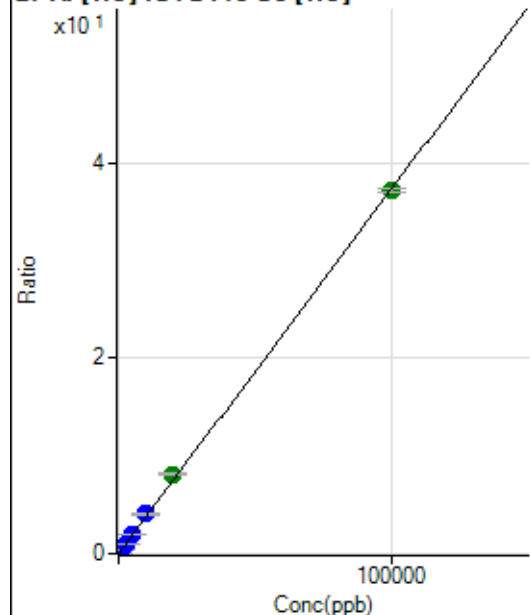
$$R = 0.9999$$

$$DL = 0.7514$$

$$BEC = 3.504$$

Weight: <None>

Min Conc: 0

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

	Rj	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	65.82	0.0004	P	18.9
2	☐	20.000	19.033	1345.73	0.0075	P	5.9
3	☐	1000.000	1047.595	71425.06	0.3910	P	4.4
4	☐	2500.000	2643.025	177579.18	0.9860	P	3.2
5	☐	5000.000	5434.614	353511.61	2.0271	P	1.3
6	☐	10000.000	10816.300	713869.33	4.0340	P	2.0
7	☐	20000.000	21869.125	1434602.85	8.1558	A	1.8
8	☐	100000.00	99518.763	6301830.62	37.1131	A	1.1

$$y = 3.7292\text{E-}004 * x + 3.6736\text{E-}004$$

$$R = 0.9998$$

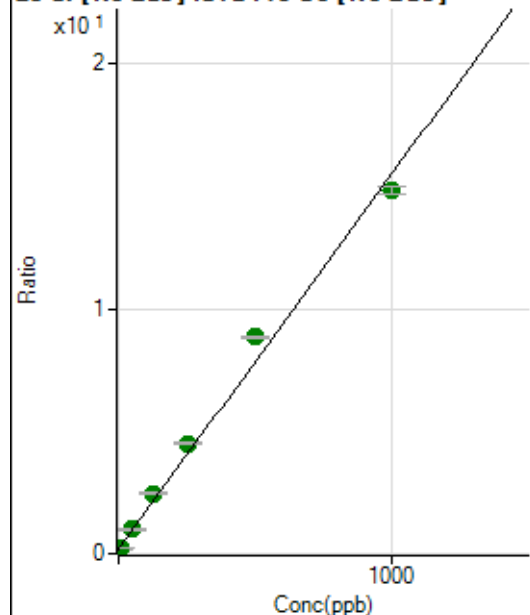
$$DL = 0.5576$$

$$BEC = 0.9851$$

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	899505.17	0.1919	A	1.4
2	☐	10.000	0.689	962167.63	0.2024	A	1.8
3	☐	50.000	52.368	4656198.72	0.9930	A	3.8
4	☐	125.000	147.210	11367554.25	2.4438	A	3.0
5	☐	250.000	280.911	21133805.68	4.4891	A	2.1
6	☐	500.000	566.972	41920091.21	8.8651	A	1.0
7	☐	1000.000	955.985	70535952.27	14.8161	A	2.2
8	☐			1159114.47	0.2633	A	3.2

$$y = 0.0153 * x + 0.1919$$

$$R = 0.9955$$

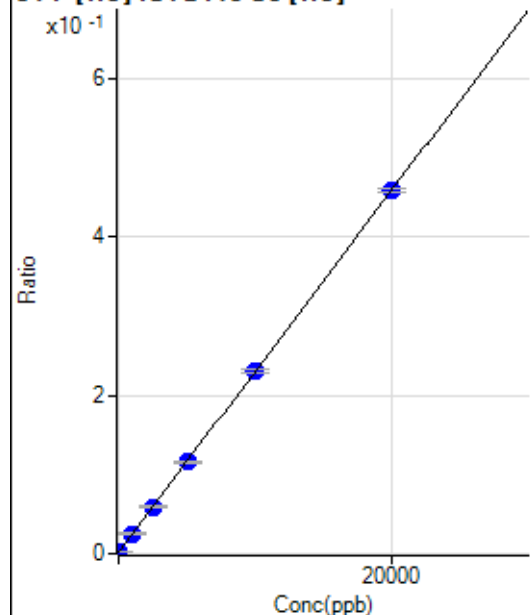
$$DL = 0.5094$$

$$BEC = 12.54$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-6.219	286.12	0.0016	P	14.2
2	☐	0.000	6.219	338.90	0.0019	P	14.5
3	☐	1000.000	1014.929	4559.18	0.0249	P	5.5
4	☐	2500.000	2515.829	10662.53	0.0592	P	4.7
5	☐	5000.000	5002.571	20239.63	0.1161	P	2.3
6	☐	10000.000	10018.201	40819.30	0.2307	P	1.6
7	☐	20000.000	19987.532	80643.59	0.4585	P	1.1
8	☐			269.46	0.0016	P	19.9

$$y = 2.2851E-005 * x + 0.0017$$

$$R = 1.0000$$

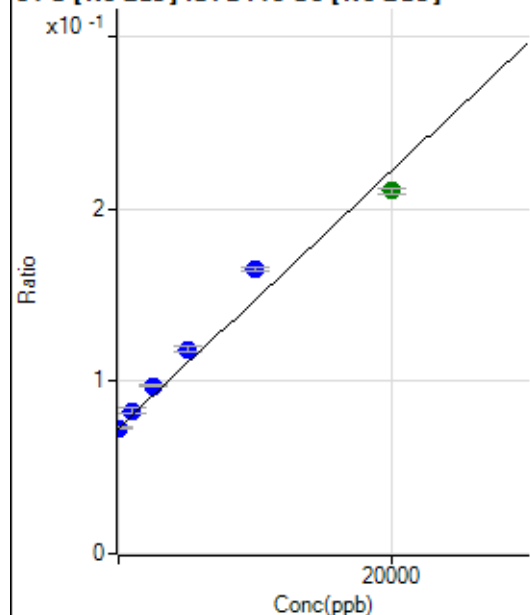
$$DL = 32.82$$

$$BEC = 76.1$$

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	11.288	341863.97	0.0729	P	1.1
2	☐	0.000	-11.288	345859.86	0.0728	P	1.1
3	☐	1000.000	1320.583	387752.93	0.0827	P	3.6
4	☐	2500.000	3279.063	452632.23	0.0973	P	1.2
5	☐	5000.000	6149.957	558714.32	0.1187	P	2.2
6	☐	10000.000	12318.231	778616.71	0.1647	P	1.5
7	☐	20000.000	18439.983	1001179.43	0.2103	A	1.9
8	☐			300768.85	0.0683	P	1.7

$$y = 7.4536E-006 * x + 0.0728$$

R = 0.9869

DL = 320.5

BEC = 9773

Weight: <None>

Min Conc: 0

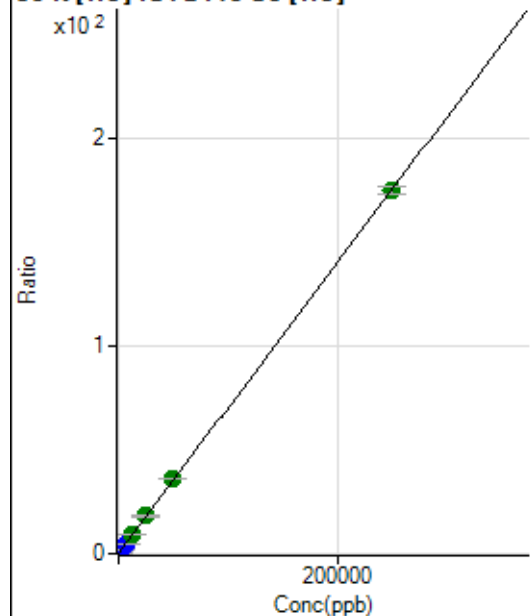
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			119429.20		P	1.9
2	☐			124033.88		P	1.0
3	☐			151514.23		P	0.8
4	☐			155800.48		P	0.4
5	☐			154662.58		P	0.7
6	☐			156194.22		P	0.3
7	☐			159555.16		P	1.6
8	☐			142642.50		P	1.1

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			888.94		P	12.2
2	☐			980.61		P	10.0
3	☐			1177.86		P	9.0
4	☐			1275.09		P	18.3
5	☐			1180.64		P	8.8
6	☐			1275.09		P	4.6
7	☐			1280.65		P	8.0
8	☐			1191.75		P	5.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	24337.72	0.1358	P	2.8
2	☐	500.000	477.802	84684.43	0.4697	P	3.3
3	☐	2500.000	2492.342	343028.66	1.8775	P	4.1
4	☐	6250.000	6299.774	817385.95	4.5383	P	2.8
5	☐	12500.000	13099.034	1619993.85	9.2897	A	1.9
6	☐	25000.000	25972.040	3235941.18	18.2856	A	3.6
7	☐	50000.000	51337.149	6333813.08	36.0113	A	1.3
8	☐	250000.00	249604.29	29644173.23	174.5645	A	2.2

$$y = 6.9882E-004 * x + 0.1358$$

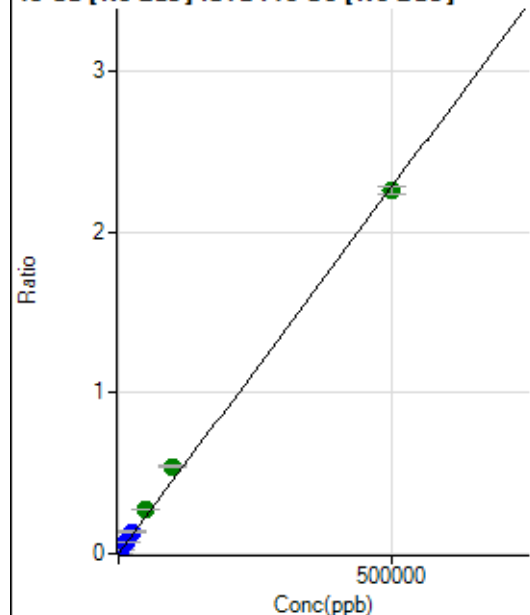
$$R = 1.0000$$

$$DL = 16.09$$

$$BEC = 194.4$$

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	144.15	0.0000	P	7.1
2	☐	500.000	489.628	10769.36	0.0023	P	1.8
3	☐	5000.000	6084.059	130381.42	0.0278	P	3.0
4	☐	12500.000	15259.779	324184.15	0.0697	P	1.6
5	☐	25000.000	29925.674	643113.81	0.1366	P	2.9
6	☐	50000.000	60218.967	1299851.34	0.2749	A	1.6
7	☐	100000.00	118786.33	2581567.13	0.5422	A	1.6
8	☐	500000.00	494894.72	9945841.68	2.2589	A	2.3

$$y = 4.5643\text{E-}006 * x + 3.0743\text{E-}005$$

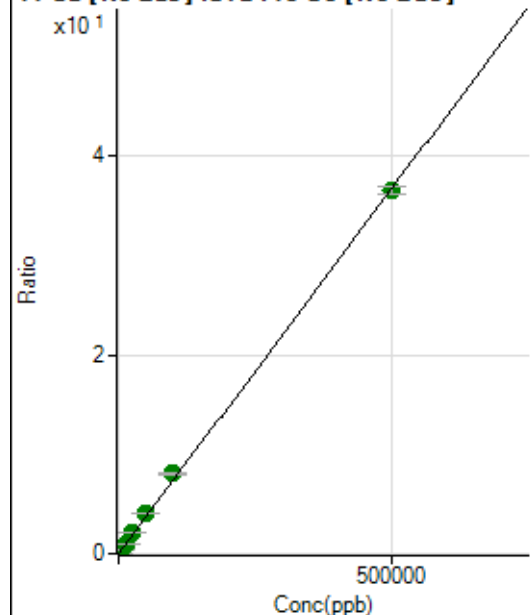
$$R = 0.9991$$

$$DL = 1.436$$

$$BEC = 6.735$$

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	8730.48	0.0019	P	1.2
2	☐	500.000	496.835	182118.68	0.0383	P	1.2
3	☐	5000.000	5678.453	1962500.80	0.4184	A	3.1
4	☐	12500.000	14065.388	4810137.13	1.0337	A	2.0
5	☐	25000.000	28124.606	9722548.66	2.0651	A	2.3
6	☐	50000.000	55395.980	19225623.08	4.0658	A	2.0
7	☐	100000.00	109504.29	38260541.66	8.0353	A	1.5
8	☐	500000.00	497357.39	160652468.7	36.4891	A	2.3

$$y = 7.3362\text{E-}005 * x + 0.0019$$

$$R = 0.9998$$

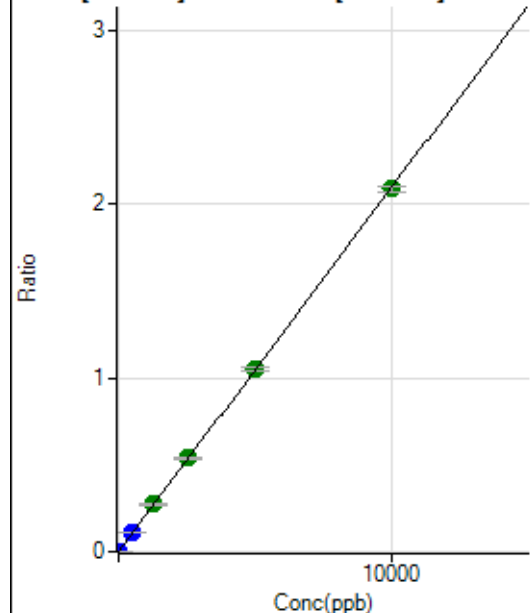
$$DL = 0.9506$$

$$BEC = 25.39$$

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	211.12	0.0000	P	14.7
2	☐	5.000	4.805	4998.23	0.0011	P	2.8
3	☐	500.000	534.120	524797.13	0.1119	P	3.2
4	☐	1250.000	1298.224	1265320.86	0.2719	A	1.9
5	☐	2500.000	2564.748	2528474.71	0.5372	A	3.2
6	☐	5000.000	5022.997	4974371.64	1.0520	A	1.3
7	☐	10000.000	9964.581	9935013.16	2.0869	A	1.7
8	☐			2203.00	0.0005	P	10.5

$$y = 2.0942\text{E-}004 * x + 4.5073\text{E-}005$$

$$R = 1.0000$$

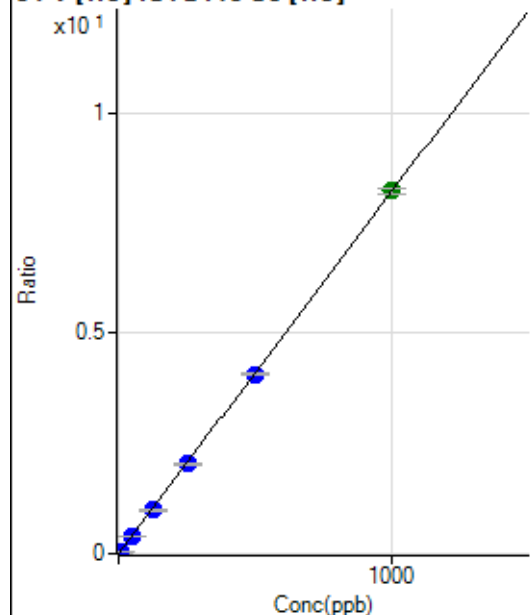
$$DL = 0.09513$$

$$BEC = 0.2152$$

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	10.00	0.0001	P	57.7
2	☐	5.000	4.602	6820.57	0.0378	P	4.0
3	☐	50.000	47.603	71404.95	0.3909	P	3.9
4	☐	125.000	120.180	177759.23	0.9867	P	2.0
5	☐	250.000	249.376	357063.86	2.0474	P	1.8
6	☐	500.000	495.566	719991.07	4.0686	P	1.2
7	☐	1000.000	1003.097	1448574.93	8.2354	A	1.9
8	☐			493.36	0.0029	P	30.2

$$y = 0.0082 * x + 5.5756\text{E-}005$$

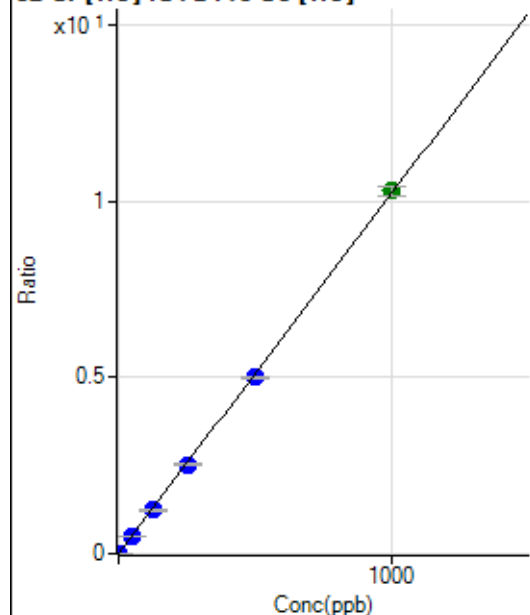
$$R = 1.0000$$

$$DL = 0.01175$$

$$BEC = 0.006791$$

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	538.91	0.0030	P	7.8
2	☐	2.000	1.854	3958.37	0.0220	P	6.7
3	☐	50.000	47.744	89693.60	0.4910	P	4.2
4	☐	125.000	120.407	222211.05	1.2336	P	2.2
5	☐	250.000	247.769	442138.51	2.5352	P	1.9
6	☐	500.000	488.541	884069.89	4.9959	P	0.9
7	☐	1000.000	1006.975	1810637.63	10.2942	A	2.7
8	☐			15781.05	0.0929	P	2.7

$$y = 0.0102 * x + 0.0030$$

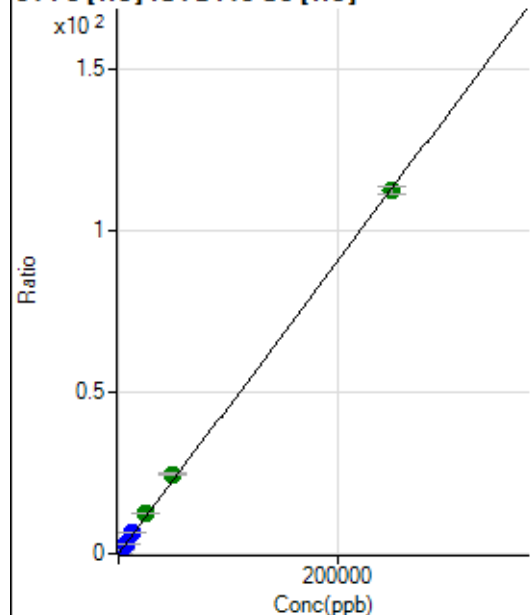
$$R = 0.9999$$

$$DL = 0.06917$$

$$BEC = 0.2944$$

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	683.36	0.0038	P	17.0
2	☐	50.000	51.788	4902.78	0.0272	P	1.7
3	☐	2500.000	2670.576	220833.29	1.2093	P	5.2
4	☐	6250.000	6704.481	545718.52	3.0302	P	3.1
5	☐	12500.000	13977.895	1101014.45	6.3133	P	1.0
6	☐	25000.000	27888.171	2228431.13	12.5923	A	1.9
7	☐	50000.000	54598.221	4335332.42	24.6491	A	3.4
8	☐	250000.00	248704.57	19064282.83	112.2673	A	2.0

$$y = 4.5139E-004 * x + 0.0038$$

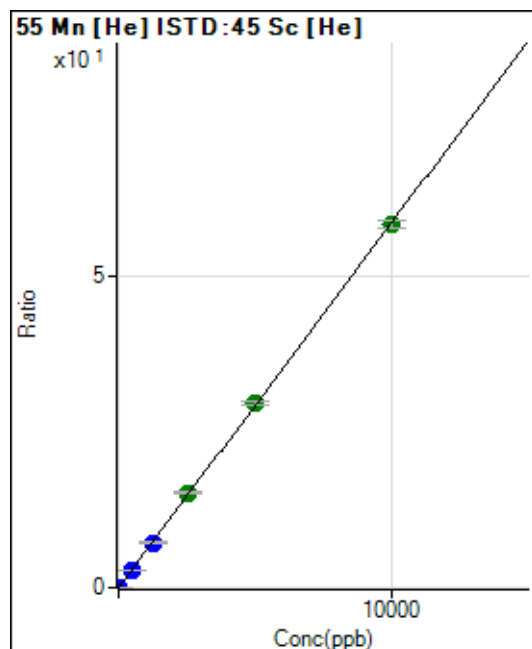
$$R = 0.9998$$

$$DL = 4.308$$

$$BEC = 8.452$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	28.89	0.0002	P	17.7
2	☐	1.000	1.052	1138.95	0.0063	P	7.0
3	☐	500.000	482.158	515772.43	2.8233	P	3.9
4	☐	1250.000	1222.721	1289524.88	7.1594	P	2.7
5	☐	2500.000	2602.478	2657440.81	15.2382	A	0.8
6	☐	5000.000	5062.384	5245709.33	29.6414	A	2.8
7	☐	10000.000	9947.490	10244779.02	58.2447	A	2.0
8	☐			10910.64	0.0643	P	10.3

$$y = 0.0059 * x + 1.6126E-004$$

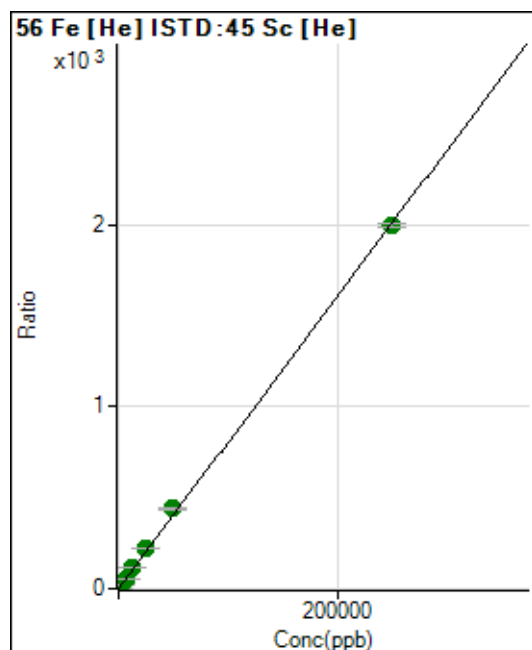
$$R = 0.9999$$

$$DL = 0.01466$$

$$BEC = 0.02754$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3200.42	0.0179	P	2.7
2	☐	50.000	51.387	77506.23	0.4299	P	3.4
3	☐	2500.000	2699.801	3957244.85	21.6679	A	5.0
4	☐	6250.000	6733.053	9732260.98	54.0111	A	2.0
5	☐	12500.000	14104.216	19727607.38	113.1213	A	1.0
6	☐	25000.000	27866.831	39548329.12	223.4855	A	0.8
7	☐	50000.000	54823.408	77329093.39	439.6537	A	2.6
8	☐	250000.00	248654.35	338598363.1	1,994.008	A	0.9

$$y = 0.0080 * x + 0.0179$$

$$R = 0.9998$$

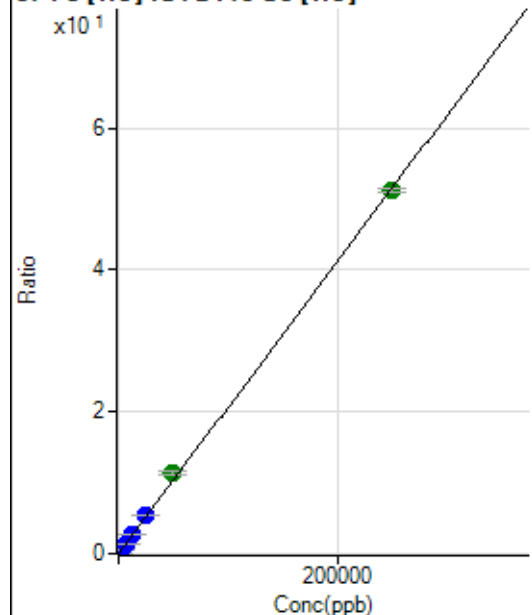
$$DL = 0.1806$$

$$BEC = 2.228$$

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	225.93	0.0013	P	22.4
2	☐	50.000	50.658	2103.90	0.0117	P	13.2
3	☐	2500.000	2611.424	98339.10	0.5384	P	4.2
4	☐	6250.000	6542.345	242587.48	1.3469	P	2.9
5	☐	12500.000	13581.044	487382.60	2.7946	P	1.9
6	☐	25000.000	26724.045	972921.55	5.4979	P	1.6
7	☐	50000.000	55271.400	1999678.65	11.3695	A	2.9
8	☐	250000.00	248710.84	8686911.89	51.1563	A	0.9

$$y = 2.0568E-004 * x + 0.0013$$

$$R = 0.9997$$

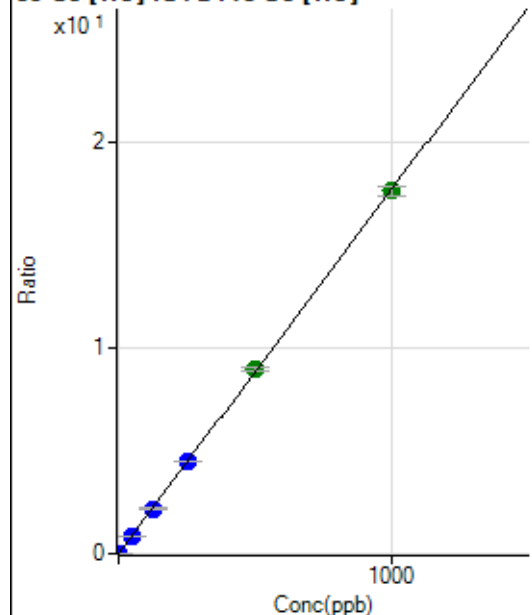
$$DL = 4.112$$

$$BEC = 6.133$$

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	60.00	0.0003	P	34.6
2	☐	1.000	0.988	3204.84	0.0178	P	6.2
3	☐	50.000	49.029	158306.20	0.8665	P	3.8
4	☐	125.000	122.848	391021.12	2.1707	P	2.3
5	☐	250.000	254.167	783177.49	4.4908	P	1.1
6	☐	500.000	505.849	1581628.14	8.9374	A	2.2
7	☐	1000.000	996.351	3096301.20	17.6033	A	2.9
8	☐			2902.60	0.0171	P	8.9

$$y = 0.0177 * x + 3.3479E-004$$

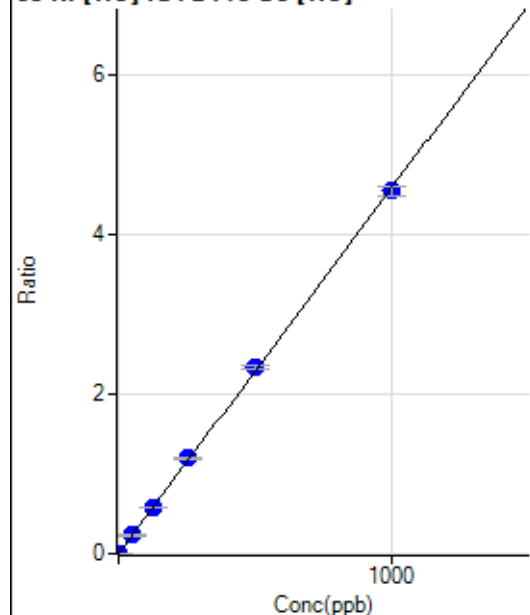
$$R = 1.0000$$

$$DL = 0.01965$$

$$BEC = 0.01895$$

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	32.22	0.0002	P	23.9
2	☐	1.000	0.994	853.37	0.0047	P	3.4
3	☐	50.000	51.164	42830.08	0.2346	P	5.8
4	☐	125.000	126.620	104524.16	0.5803	P	2.4
5	☐	250.000	260.410	208092.09	1.1932	P	1.1
6	☐	500.000	509.262	412917.82	2.3333	P	1.9
7	☐	1000.000	992.506	799798.36	4.5472	P	2.4
8	☐			2522.48	0.0149	P	4.9

$$y = 0.0046 * x + 1.7988E-004$$

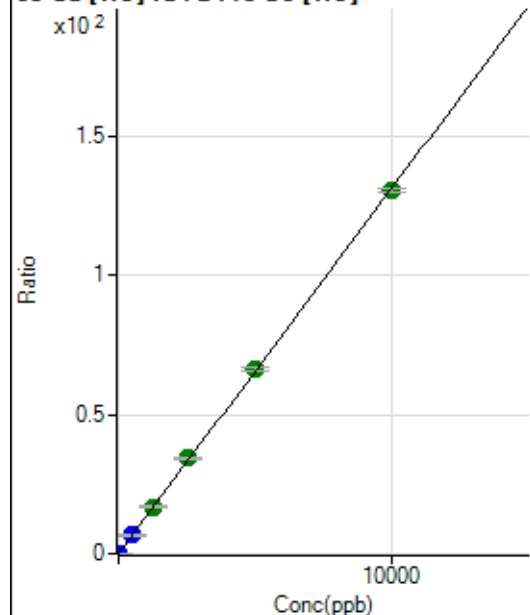
$$R = 0.9999$$

$$DL = 0.02819$$

$$BEC = 0.03926$$

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	638.91	0.0036	P	6.0
2	☐	2.000	1.909	5150.98	0.0286	P	4.8
3	☐	500.000	505.942	1211157.68	6.6330	P	5.5
4	☐	1250.000	1287.565	3040157.42	16.8746	A	1.7
5	☐	2500.000	2614.280	5974486.02	34.2586	A	0.8
6	☐	5000.000	5057.164	11727028.02	66.2679	A	1.2
7	☐	10000.000	9937.855	22903528.27	130.2198	A	1.0
8	☐			7490.62	0.0441	P	16.3

$$y = 0.0131 * x + 0.0036$$

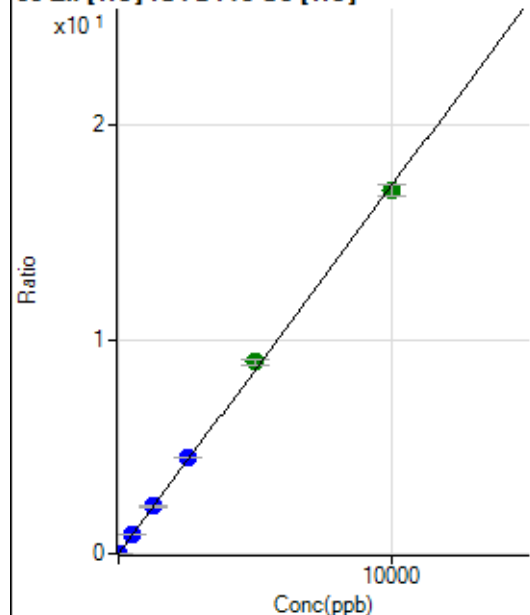
$$R = 0.9999$$

$$DL = 0.04894$$

$$BEC = 0.2722$$

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	253.34	0.0014	P	10.9
2	☐	2.000	2.248	951.15	0.0053	P	2.5
3	☐	500.000	512.563	161055.00	0.8820	P	5.3
4	☐	1250.000	1280.845	396589.59	2.2018	P	2.7
5	☐	2500.000	2612.723	783029.98	4.4899	P	1.3
6	☐	5000.000	5207.272	1583403.59	8.9472	A	3.0
7	☐	10000.000	9863.699	2980685.48	16.9467	A	3.2
8	☐			3103.72	0.0183	P	3.9

$$y = 0.0017 * x + 0.0014$$

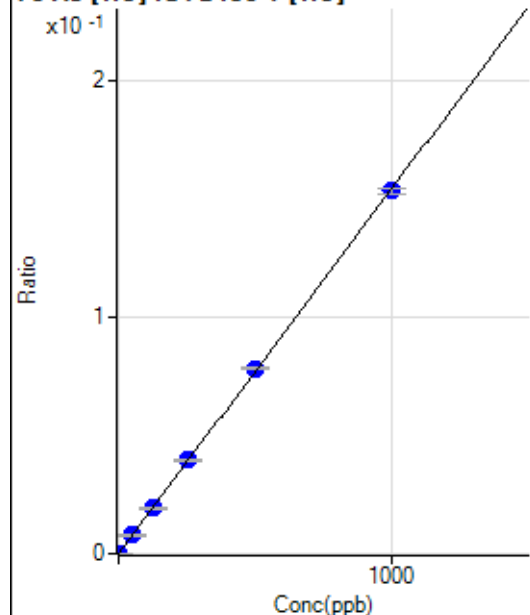
$$R = 0.9996$$

$$DL = 0.2685$$

$$BEC = 0.8232$$

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	2.67	0.0000	P	58.1
2	☐	1.000	1.016	188.69	0.0002	P	6.1
3	☐	50.000	50.813	9330.02	0.0078	P	5.2
4	☐	125.000	124.548	22952.53	0.0192	P	2.9
5	☐	250.000	256.116	45508.70	0.0394	P	1.6
6	☐	500.000	507.241	91170.92	0.0781	P	1.0
7	☐	1000.000	994.866	177618.14	0.1531	P	1.3
8	☐			49.67	0.0000	P	13.6

$$y = 1.5393E-004 * x + 2.2701E-006$$

$$R = 0.9999$$

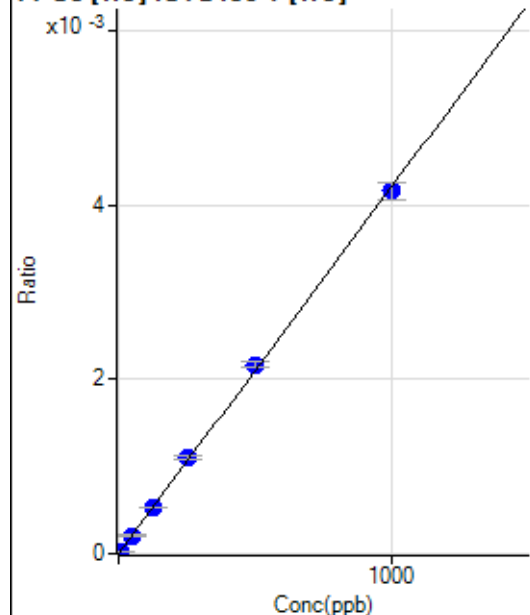
$$DL = 0.0257$$

$$BEC = 0.01475$$

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	0.00	0.0000	P	
2	☐	5.000	5.331	26.67	0.0000	P	32.9
3	☐	50.000	48.574	244.45	0.0002	P	10.2
4	☐	125.000	126.253	635.58	0.0005	P	2.7
5	☐	250.000	260.761	1265.62	0.0011	P	4.3
6	☐	500.000	515.495	2531.36	0.0022	P	2.8
7	☐	1000.000	989.475	4825.32	0.0042	P	4.9
8	☐			2.22	0.0000	P	86.6

$$y = 4.2052\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9997$$

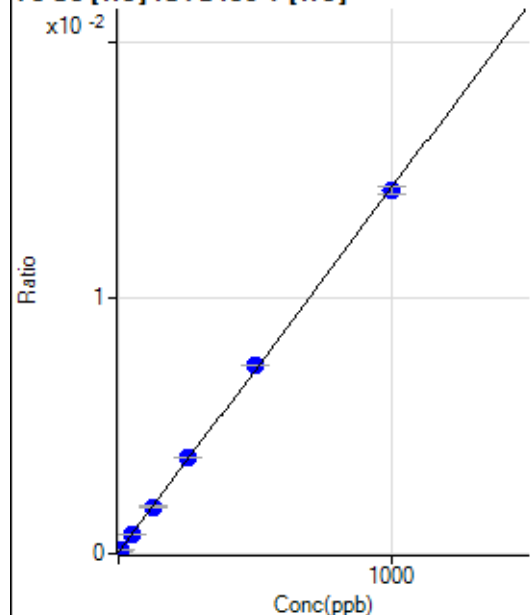
$$DL = 0$$

$$BEC = 0$$

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	66.68	0.0001	P	25.5
2	☐	5.000	5.543	161.35	0.0001	P	12.2
3	☐	50.000	49.249	905.46	0.0008	P	0.2
4	☐	125.000	125.173	2203.40	0.0018	P	2.2
5	☐	250.000	259.865	4339.44	0.0038	P	1.6
6	☐	500.000	511.919	8583.82	0.0074	P	0.4
7	☐	1000.000	991.588	16454.24	0.0142	P	2.1
8	☐			66.68	0.0001	P	9.8

$$y = 1.4249\text{E-}005 * x + 5.6689\text{E-}005$$

$$R = 0.9998$$

$$DL = 3.041$$

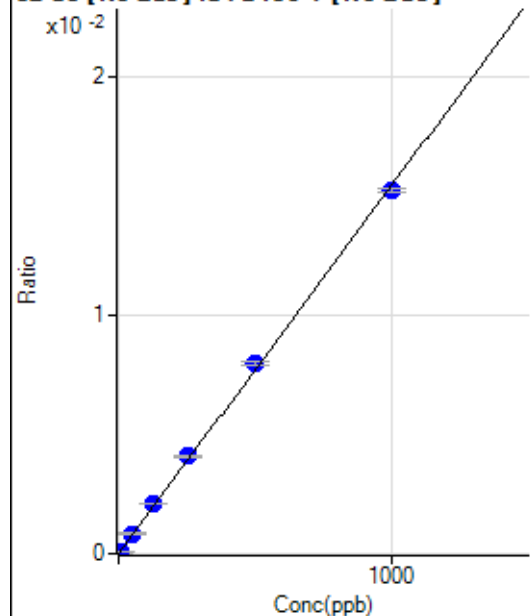
$$BEC = 3.978$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61717.42		P	1.1
2	☐			59249.40		P	3.3
3	☐			59287.34		P	1.6
4	☐			58817.99		P	2.3
5	☐			56382.61		P	0.9
6	☐			56744.23		P	4.3
7	☐			57001.90		P	3.2
8	☐			56699.76		P	0.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16.67	0.0000	P	92.4
2	☐	5.000	4.995	699.71	0.0001	P	9.9
3	☐	50.000	54.209	7447.80	0.0008	P	3.1
4	☐	125.000	136.798	18677.30	0.0021	P	1.6
5	☐	250.000	264.891	36488.65	0.0041	P	2.0
6	☐	500.000	517.698	72010.03	0.0080	P	1.3
7	☐	1000.000	985.743	138850.35	0.0152	P	1.1
8	☐			202.00	0.0000	P	14.1

$$y = 1.5459E-005 * x + 1.8779E-006$$

$$R = 0.9996$$

$$DL = 0.3366$$

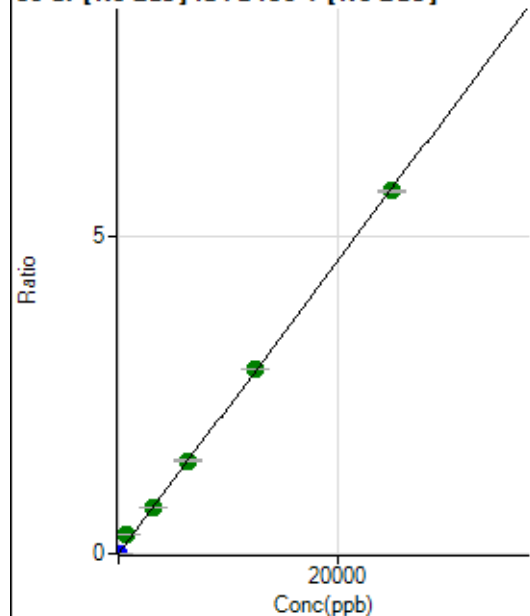
$$BEC = 0.1215$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			363.29		P	2.8
2	☐			364.96		P	9.8
3	☐			359.96		P	8.9
4	☐			362.46		P	9.0
5	☐			354.13		P	2.8
6	☐			371.63		P	2.6
7	☐			353.71		P	7.0
8	☐			403.71		P	5.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	500.03	0.0001	P	33.8
2	☐	1.000	0.998	2530.85	0.0003	P	4.4
3	☐	625.000	1300.664	2647912.54	0.2986	A	2.1
4	☐	3125.000	3168.219	6415322.24	0.7272	A	2.8
5	☐	6250.000	6352.773	12985296.90	1.4580	A	2.1
6	☐	12500.000	12670.491	26161169.16	2.9079	A	0.6
7	☐	25000.000	24866.767	51995210.54	5.7070	A	0.6
8	☐			14705.31	0.0018	P	6.7

$$y = 2.2950E-004 * x + 5.6991E-005$$

$$R = 0.9997$$

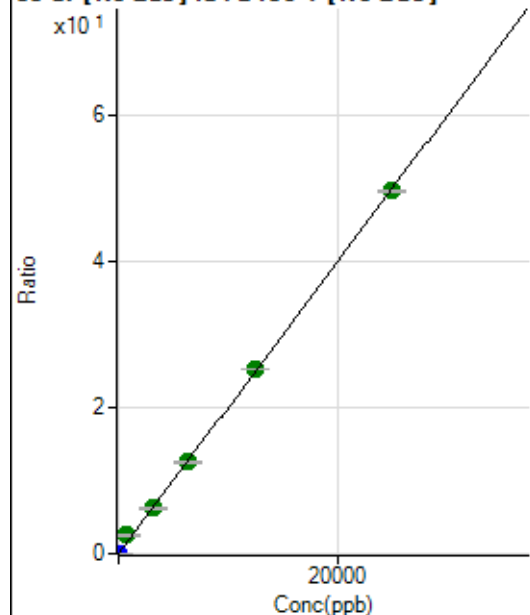
$$DL = 0.252$$

$$BEC = 0.2483$$

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	186.12	0.0000	P	5.0
2	☐	1.000	1.007	17978.64	0.0020	P	0.6
3	☐	625.000	1258.064	22288584.00	2.5129	A	1.2
4	☐	3125.000	3117.634	54950333.87	6.2271	A	1.5
5	☐	6250.000	6311.921	112289073.3	12.6074	A	1.5
6	☐	12500.000	12631.187	226970268.9	25.2294	A	0.2
7	☐	25000.000	24904.020	453197710.1	49.7429	A	0.3
8	☐			118668.18	0.0143	P	5.5

$$y = 0.0020 * x + 2.1110E-005$$

$$R = 0.9997$$

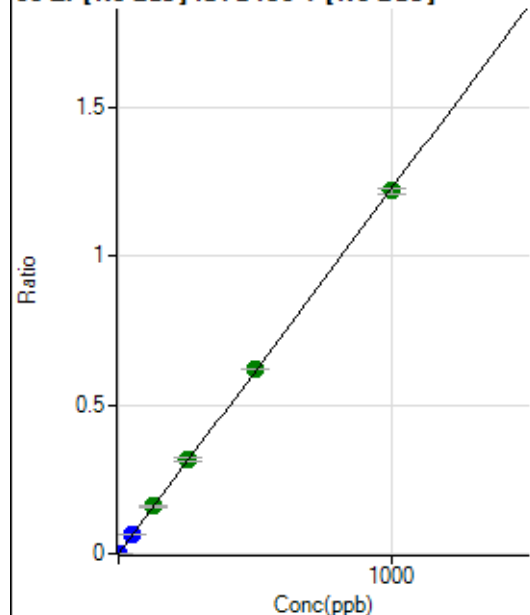
$$DL = 0.001585$$

$$BEC = 0.01057$$

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	422.24	0.0000	P	11.3
2	☐	1.000	0.952	10768.34	0.0012	P	3.0
3	☐	50.000	51.362	559682.60	0.0631	P	2.8
4	☐	125.000	130.060	1409264.58	0.1597	A	2.8
5	☐	250.000	256.884	2809190.71	0.3155	A	3.6
6	☐	500.000	506.883	5599476.73	0.6224	A	0.5
7	☐	1000.000	994.137	11121592.61	1.2207	A	1.3
8	☐			2917.05	0.0004	P	1.9

$$y = 0.0012 * x + 4.7846E-005$$

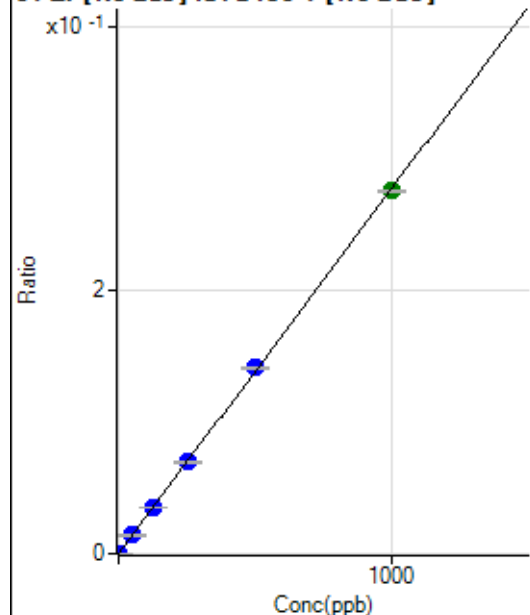
$$R = 0.9999$$

$$DL = 0.01316$$

$$BEC = 0.03897$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	77.78	0.0000	P	10.4
2	☐	1.000	0.852	2164.12	0.0002	P	11.5
3	☐	50.000	50.640	124375.34	0.0140	P	3.2
4	☐	125.000	126.067	308024.61	0.0349	P	0.9
5	☐	250.000	252.358	622215.18	0.0699	P	2.3
6	☐	500.000	509.326	1268456.42	0.1410	P	1.3
7	☐	1000.000	994.582	2508344.96	0.2753	A	0.8
8	☐			633.37	0.0001	P	7.4

$$y = 2.7680\text{E-}004 * x + 8.8146\text{E-}006$$

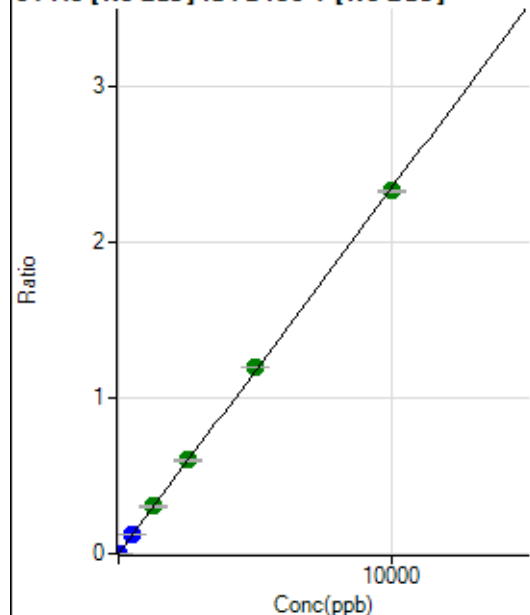
$$R = 0.9999$$

$$DL = 0.009962$$

$$BEC = 0.03184$$

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	169.45	0.0000	P	29.2
2	☐	5.000	5.872	12364.13	0.0014	P	1.8
3	☐	500.000	530.463	1104085.55	0.1245	P	2.3
4	☐	1250.000	1297.511	2686694.94	0.3045	A	1.6
5	☐	2500.000	2554.671	5339745.04	0.5995	A	1.1
6	☐	5000.000	5098.024	10761791.30	1.1963	A	0.7
7	☐	10000.000	9929.858	21229009.50	2.3301	A	0.7
8	☐			7368.82	0.0009	P	7.6

$$y = 2.3466\text{E-}004 * x + 1.9309\text{E-}005$$

$$R = 0.9999$$

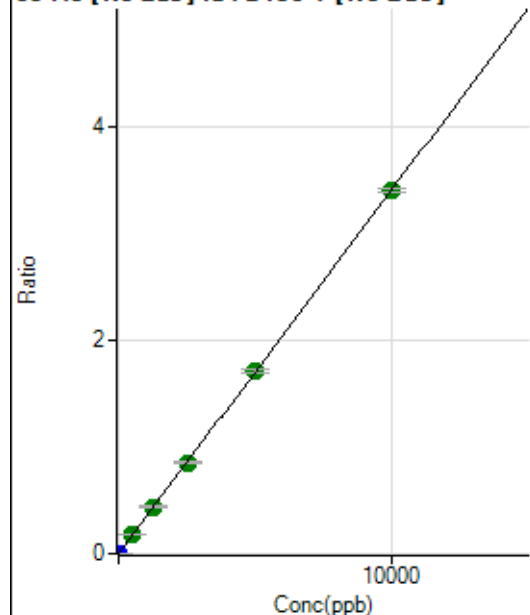
$$DL = 0.07218$$

$$BEC = 0.08229$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	77.3
2	☐	5.000	5.042	15211.50	0.0017	P	1.9
3	☐	500.000	511.983	1545115.58	0.1742	A	2.6
4	☐	1250.000	1287.445	3865556.86	0.4381	A	2.8
5	☐	2500.000	2506.238	7595978.03	0.8529	A	1.8
6	☐	5000.000	5026.398	15388946.01	1.7105	A	1.2
7	☐	10000.000	9979.962	30940947.22	3.3961	A	1.1
8	☐			9703.71	0.0012	P	8.7

$$y = 3.4030\text{E-}004 * x + 3.1873\text{E-}006$$

$$R = 1.0000$$

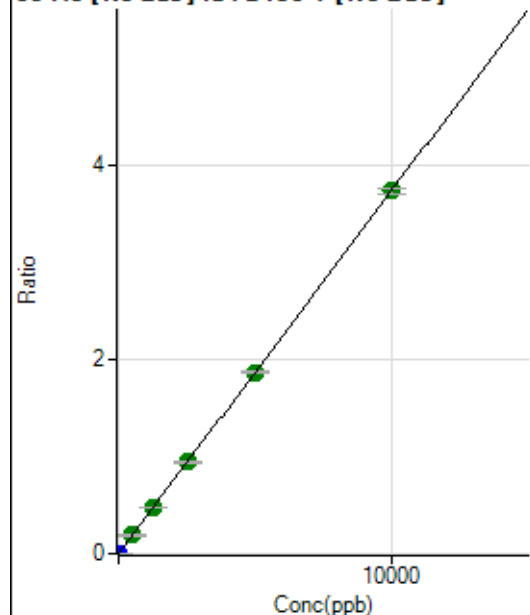
$$DL = 0.02172$$

$$BEC = 0.009366$$

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	138.90	0.0000	P	23.1
2	☐	5.000	4.986	16602.06	0.0019	P	2.0
3	☐	500.000	510.576	1689240.69	0.1905	A	4.6
4	☐	1250.000	1275.827	4199768.80	0.4761	A	3.5
5	☐	2500.000	2521.130	8377996.46	0.9408	A	2.8
6	☐	5000.000	4988.410	16746186.31	1.8614	A	0.8
7	☐	10000.000	9996.755	33985929.58	3.7303	A	1.3
8	☐			24488.84	0.0030	P	6.0

$$y = 3.7314\text{E-}004 * x + 1.5733\text{E-}005$$

$$R = 1.0000$$

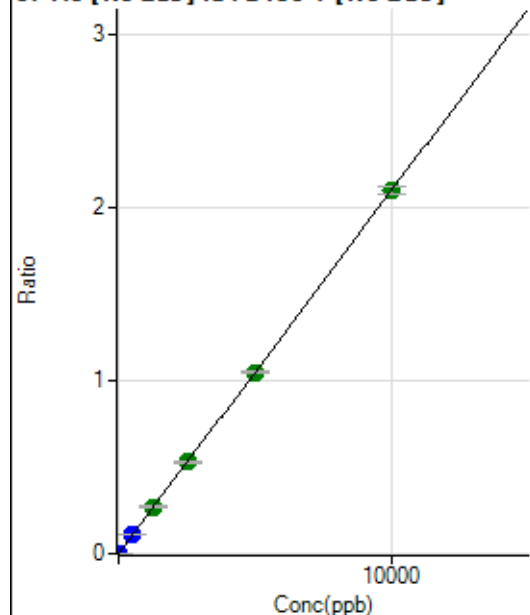
$$DL = 0.02923$$

$$BEC = 0.04216$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16.67	0.0000	P	98.6
2	☐	5.000	5.160	9589.69	0.0011	P	1.6
3	☐	500.000	527.490	980511.17	0.1106	P	4.0
4	☐	1250.000	1294.966	2395382.56	0.2715	A	1.8
5	☐	2500.000	2518.939	4703453.84	0.5281	A	1.5
6	☐	5000.000	4998.518	9426813.41	1.0479	A	0.8
7	☐	10000.000	9989.011	19079531.85	2.0941	A	2.2
8	☐			6229.36	0.0008	P	9.1

$$y = 2.0964E-004 * x + 1.8859E-006$$

R = 1.0000

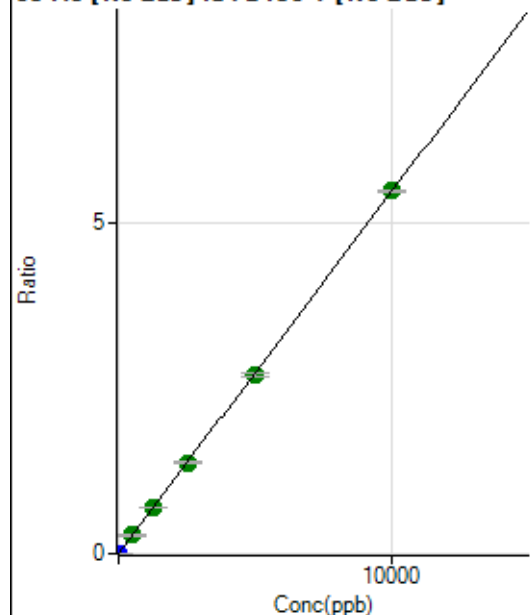
DL = 0.02662

BEC = 0.008996

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	44.45	0.0000	P	13.1
2	☐	5.000	4.945	24024.06	0.0027	P	2.1
3	☐	500.000	506.455	2461176.10	0.2775	A	4.0
4	☐	1250.000	1271.378	6146653.78	0.6967	A	2.4
5	☐	2500.000	2515.097	12274345.24	1.3782	A	2.3
6	☐	5000.000	4939.368	24349965.48	2.7066	A	1.2
7	☐	10000.000	10023.547	50042305.64	5.4926	A	0.9
8	☐			15092.00	0.0018	P	8.9

$$y = 5.4796E-004 * x + 5.0534E-006$$

R = 1.0000

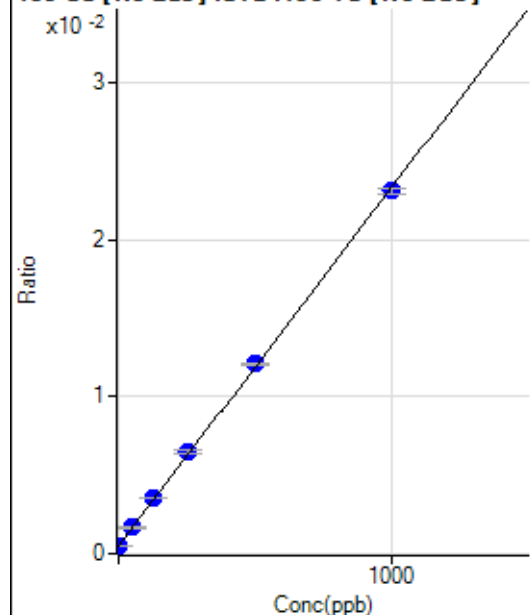
DL = 0.003616

BEC = 0.009222

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3897.88	0.0005	P	9.8
2	☐	1.000	0.980	4139.63	0.0005	P	6.6
3	☐	50.000	51.988	13367.93	0.0017	P	3.7
4	☐	125.000	132.986	28546.74	0.0035	P	1.7
5	☐	250.000	262.975	52921.94	0.0065	P	2.3
6	☐	500.000	508.865	98239.50	0.0121	P	1.2
7	☐	1000.000	991.226	191508.74	0.0231	P	1.8
8	☐			3736.71	0.0005	P	2.3

$$y = 2.2795E-005 * x + 4.9467E-004$$

$$R = 0.9998$$

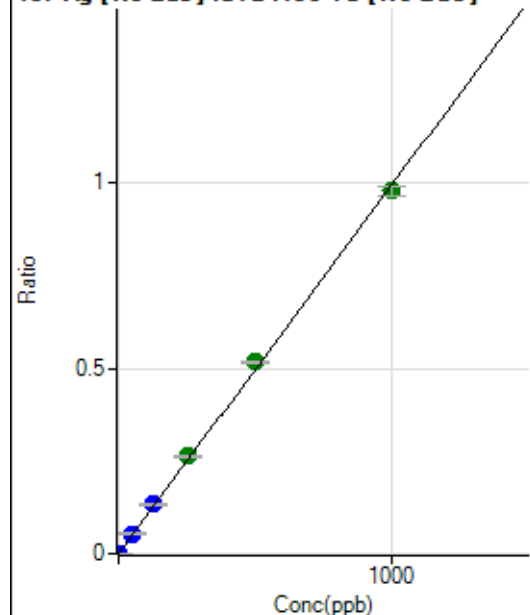
$$DL = 6.375$$

$$BEC = 21.7$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	102.78	0.0000	P	34.5
2	☐	1.000	1.027	8280.50	0.0010	P	2.7
3	☐	50.000	54.229	428947.43	0.0539	P	3.5
4	☐	125.000	134.242	1079723.30	0.1334	P	1.8
5	☐	250.000	264.596	2144178.87	0.2629	A	1.9
6	☐	500.000	519.960	4196788.42	0.5167	A	1.2
7	☐	1000.000	985.004	8117741.07	0.9788	A	2.7
8	☐			3381.08	0.0004	P	7.4

$$y = 9.9364E-004 * x + 1.3082E-005$$

$$R = 0.9996$$

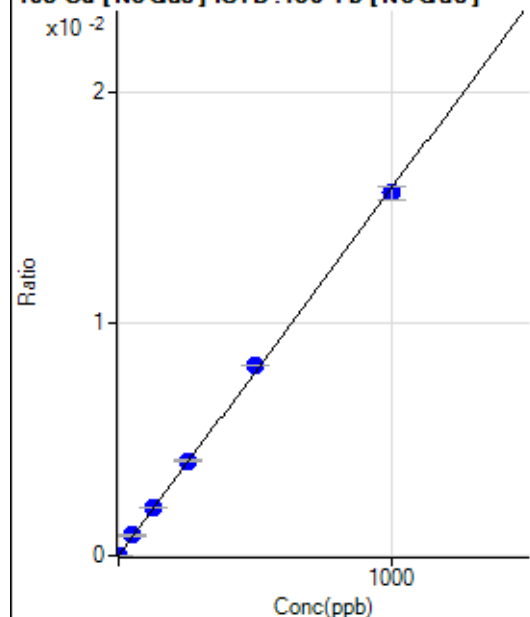
$$DL = 0.01363$$

$$BEC = 0.01317$$

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	33.33	0.0000	P	31.4
2	☐	1.000	0.833	138.89	0.0000	P	34.9
3	☐	50.000	54.972	6961.57	0.0009	P	2.7
4	☐	125.000	131.574	16898.00	0.0021	P	2.1
5	☐	250.000	258.683	33436.54	0.0041	P	2.2
6	☐	500.000	518.006	66650.64	0.0082	P	0.6
7	☐	1000.000	987.756	129731.53	0.0156	P	3.4
8	☐			66.67	0.0000	P	49.4

$$y = 1.5834E-005 * x + 4.2065E-006$$

$$R = 0.9997$$

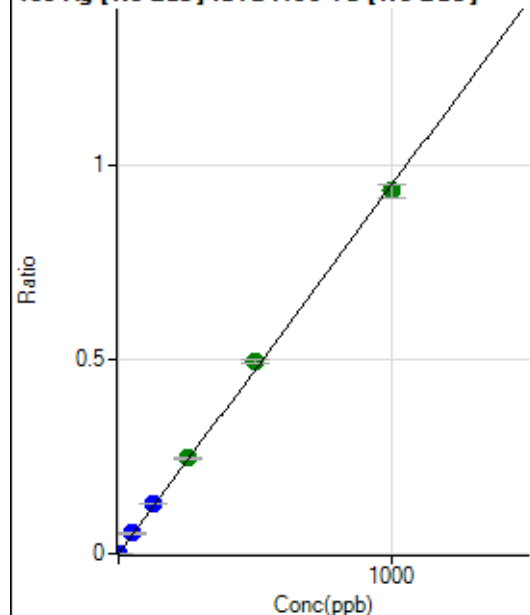
$$DL = 0.2506$$

$$BEC = 0.2657$$

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	36.11	0.0000	P	65.9
2	☐	1.000	1.028	7857.99	0.0010	P	4.0
3	☐	50.000	54.940	415399.40	0.0522	P	2.8
4	☐	125.000	135.206	1039481.82	0.1284	P	1.0
5	☐	250.000	260.468	2017935.27	0.2474	A	2.0
6	☐	500.000	521.473	4022391.41	0.4953	A	2.2
7	☐	1000.000	985.124	7758793.75	0.9357	A	4.0
8	☐			3108.76	0.0004	P	7.4

$$y = 9.4985E-004 * x + 4.5316E-006$$

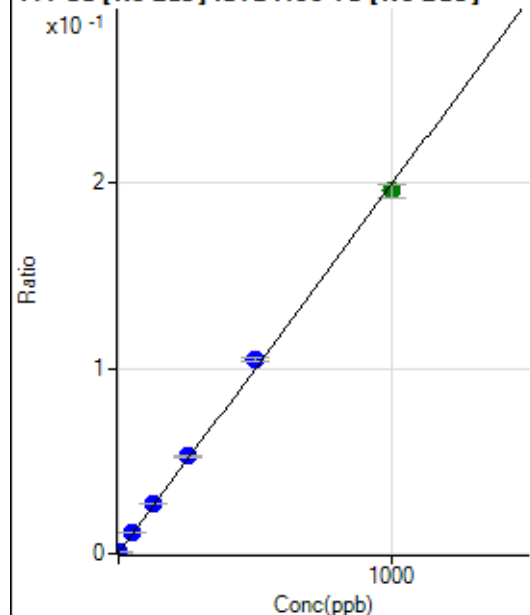
$$R = 0.9996$$

$$DL = 0.009427$$

$$BEC = 0.004771$$

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	2720.46	0.0003	P	10.2
2	☐	1.000	1.139	4581.21	0.0006	P	2.9
3	☐	50.000	55.891	91260.27	0.0115	P	2.4
4	☐	125.000	135.184	220480.35	0.0272	P	1.3
5	☐	250.000	263.455	430317.78	0.0528	P	1.4
6	☐	500.000	524.746	850662.28	0.1047	P	1.5
7	☐	1000.000	982.696	1624071.55	0.1959	A	3.7
8	☐			3177.39	0.0004	P	5.1

$$y = 1.9895\text{E-}004 * x + 3.4526\text{E-}004$$

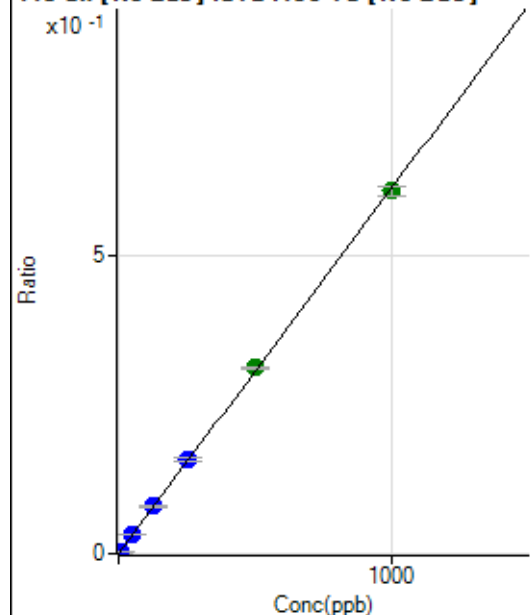
$$R = 0.9994$$

$$DL = 0.5305$$

$$BEC = 1.735$$

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	347.24	0.0000	P	6.7
2	☐	5.000	4.879	24322.05	0.0030	P	1.3
3	☐	50.000	53.053	259239.34	0.0326	P	2.6
4	☐	125.000	128.953	640134.28	0.0791	P	2.2
5	☐	250.000	257.066	1285359.75	0.1576	P	3.5
6	☐	500.000	509.041	2534948.49	0.3121	A	1.6
7	☐	1000.000	993.067	5049400.89	0.6089	A	2.9
8	☐			5684.68	0.0007	P	2.5

$$y = 6.1306\text{E-}004 * x + 4.3989\text{E-}005$$

$$R = 0.9999$$

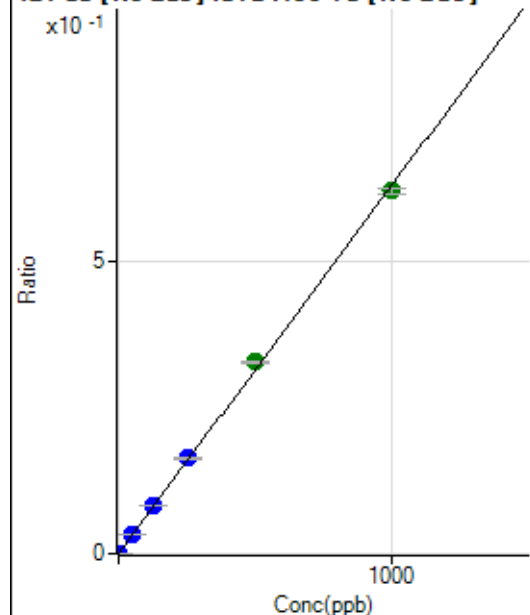
$$DL = 0.01437$$

$$BEC = 0.07175$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	33.33	0.0000	P	23.5
2	☐	2.000	1.937	9792.62	0.0012	P	2.4
3	☐	50.000	53.305	266872.70	0.0335	P	2.9
4	☐	125.000	129.533	659462.96	0.0815	P	1.6
5	☐	250.000	260.098	1333938.06	0.1636	P	2.6
6	☐	500.000	520.978	2661254.31	0.3277	A	1.0
7	☐	1000.000	986.255	5145188.13	0.6203	A	1.7
8	☐			3953.46	0.0005	P	14.1

$$y = 6.2894E-004 * x + 4.2144E-006$$

$$R = 0.9996$$

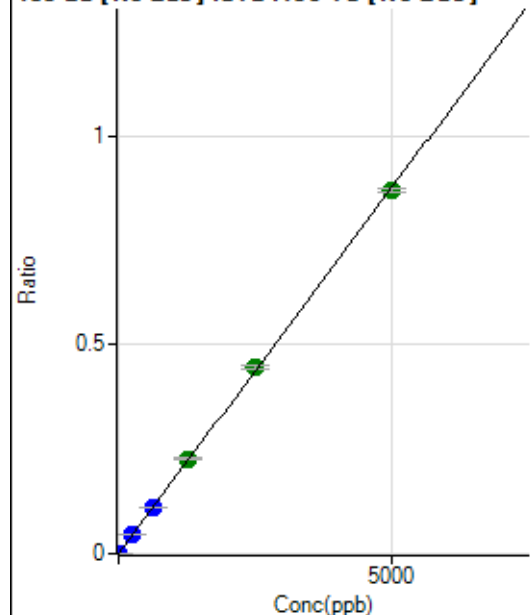
$$DL = 0.004719$$

$$BEC = 0.006701$$

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	27.78	0.0000	P	35.3
2	☐	10.000	9.552	13423.74	0.0017	P	4.1
3	☐	250.000	257.685	358816.55	0.0451	P	2.8
4	☐	625.000	631.954	894767.63	0.1106	P	1.1
5	☐	1250.000	1292.618	1843940.93	0.2261	A	2.3
6	☐	2500.000	2555.468	3630623.04	0.4470	A	2.2
7	☐	5000.000	4960.359	7198734.62	0.8677	A	1.2
8	☐			4084.06	0.0005	P	3.3

$$y = 1.7493E-004 * x + 3.5297E-006$$

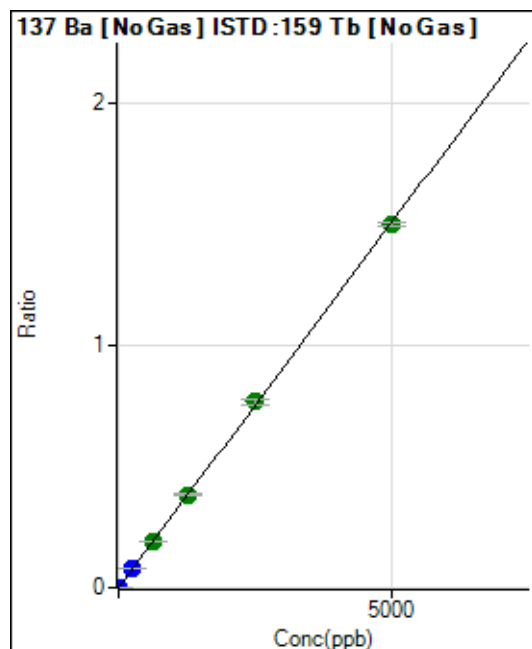
$$R = 0.9999$$

$$DL = 0.02139$$

$$BEC = 0.02018$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	47.22	0.0000	P	74.5
2	☐	10.000	9.553	23084.09	0.0029	P	3.0
3	☐	250.000	262.007	627843.67	0.0789	P	2.2
4	☐	625.000	637.261	1552420.87	0.1918	A	2.3
5	☐	1250.000	1273.040	3125563.48	0.3832	A	0.9
6	☐	2500.000	2544.568	6220699.92	0.7660	A	2.3
7	☐	5000.000	4969.824	12409637.34	1.4960	A	1.2
8	☐			6890.82	0.0009	P	3.7

$$y = 3.0101E-004 * x + 6.0291E-006$$

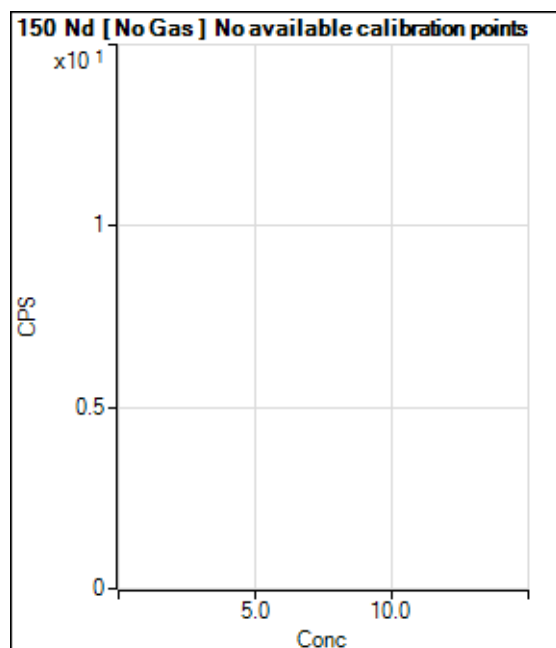
$$R = 0.9999$$

$$DL = 0.04478$$

$$BEC = 0.02003$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			2.22		P	173.
2	☐			6.67		P	100.
3	☐			60.00		P	22.2
4	☐			137.78		P	12.2
5	☐			197.78		P	27.0
6	☐			502.24		P	20.1
7	☐			1017.84		P	12.5
8	☐			82.23		P	38.3

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			5.56		P	91.6
3	☐			6.67		P	50.0
4	☐			8.89		P	43.3
5	☐			18.89		P	10.2
6	☐			47.78		P	31.5
7	☐			67.78		P	7.5
8	☐			15.55		P	86.6

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	173.
2	☐			11.11		P	43.3
3	☐			47.22		P	36.7
4	☐			72.22		P	46.6
5	☐			108.34		P	23.1
6	☐			238.90		P	11.2
7	☐			461.13		P	25.8
8	☐			1147.31		P	5.8

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	173.
2	☐			4.44		P	114.
3	☐			8.89		P	21.6
4	☐			20.00		P	72.7
5	☐			64.45		P	10.8
6	☐			104.44		P	11.2
7	☐			230.00		P	7.7
8	☐			552.24		P	7.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			80.56		P	47.8
2	☐			102.78		P	18.7
3	☐			94.45		P	35.7
4	☐			127.78		P	15.1
5	☐			169.45		P	28.4
6	☐			308.34		P	16.2
7	☐			427.80		P	7.4
8	☐			1380.66		P	9.8

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			157.78		P	14.1
2	☐			141.11		P	16.8
3	☐			157.78		P	6.5
4	☐			172.23		P	24.4
5	☐			186.67		P	18.6
6	☐			257.78		P	14.2
7	☐			330.01		P	10.9
8	☐			742.25		P	6.7

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			63.89		P	27.2
2	☐			80.56		P	26.0
3	☐			91.67		P	24.1
4	☐			105.56		P	19.9
5	☐			69.45		P	30.2
6	☐			100.00		P	25.0
7	☐			136.12		P	52.1
8	☐			150.01		P	9.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.00		P	22.2
2	☐			34.44		P	14.8
3	☐			21.11		P	39.7
4	☐			21.11		P	32.9
5	☐			40.00		P	28.9
6	☐			45.56		P	30.5
7	☐			61.11		P	15.7
8	☐			48.89		P	10.4

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.22		P	10.2
2	☐			38.89		P	24.7
3	☐			63.89		P	15.1
4	☐			58.33		P	14.3
5	☐			91.67		P	9.1
6	☐			152.78		P	11.4
7	☐			230.56		P	30.7
8	☐			450.02		P	22.5

172 Yb [He] No available calibration points

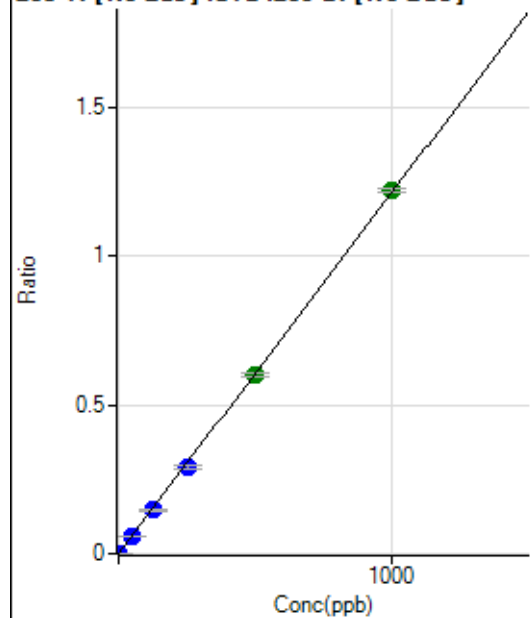
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24.07		P	104.
2	☐			20.37		P	15.7
3	☐			35.18		P	39.7
4	☐			33.34		P	57.7
5	☐			62.97		P	28.4
6	☐			85.19		P	19.9
7	☐			125.93		P	13.5
8	☐			229.63		P	15.6

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1605.70		P	5.6
2	☐			1558.47		P	4.4
3	☐			2742.03		P	3.4
4	☐			4562.03		P	2.0
5	☐			7591.27		P	2.3
6	☐			13999.49		P	3.4
7	☐			27098.08		P	2.6
8	☐			1600.14		P	8.6

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10760.12		P	3.5
2	☐			10815.71		P	5.3
3	☐			11305.04		P	4.1
4	☐			12192.89		P	4.3
5	☐			13125.27		P	2.3
6	☐			16501.33		P	1.8
7	☐			21612.39		P	1.7
8	☐			9972.44		P	3.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	72.23	0.0000	P	28.0
2	☐	1.000	0.874	5373.50	0.0011	P	3.3
3	☐	50.000	47.007	283514.15	0.0570	P	4.6
4	☐	125.000	120.245	721761.96	0.1459	P	2.6
5	☐	250.000	239.023	1437708.15	0.2900	P	3.3
6	☐	500.000	496.370	2955938.46	0.6022	A	2.7
7	☐	1000.000	1005.303	5869206.68	1.2196	A	1.2
8	☐			1530.69	0.0004	P	3.3

$$y = 0.0012 * x + 1.4679E-005$$

$$R = 0.9999$$

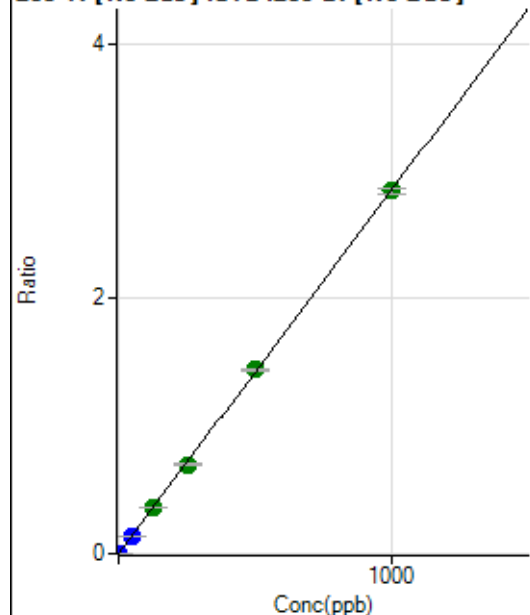
$$DL = 0.01018$$

$$BEC = 0.0121$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	150.01	0.0000	P	30.1
2	☐	1.000	0.939	13524.12	0.0027	P	5.2
3	☐	50.000	48.657	689072.90	0.1386	P	4.7
4	☐	125.000	126.376	1781233.31	0.3600	A	2.7
5	☐	250.000	245.794	3472642.74	0.7002	A	1.1
6	☐	500.000	505.639	7070867.35	1.4404	A	1.1
7	☐	1000.000	998.127	13683103.26	2.8433	A	1.3
8	☐			3522.80	0.0009	P	5.2

$$y = 0.0028 * x + 3.0440E-005$$

$$R = 1.0000$$

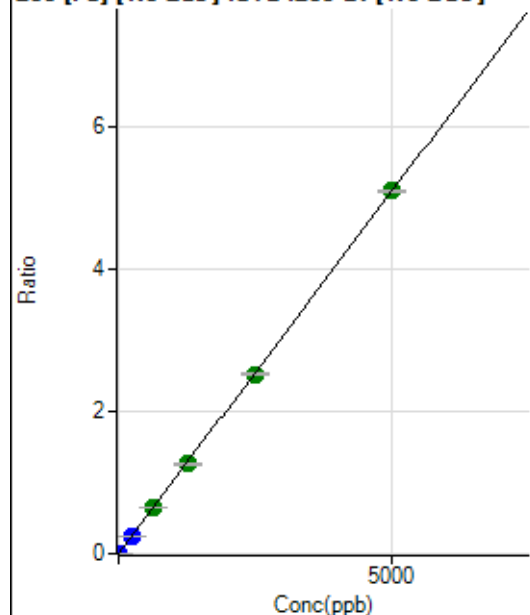
$$DL = 0.009662$$

$$BEC = 0.01069$$

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	568.54	0.0001	P	4.5
2	☐	1.000	0.846	4884.34	0.0010	P	2.1
3	☐	250.000	234.619	1189025.88	0.2392	P	4.7
4	☐	625.000	640.589	3230669.49	0.6529	A	1.7
5	☐	1250.000	1239.594	6263836.54	1.2634	A	3.1
6	☐	2500.000	2482.359	12419327.25	2.5299	A	1.2
7	☐	5000.000	5010.242	24574596.15	5.1061	A	0.3
8	☐			6096.02	0.0015	P	7.2

$$y = 0.0010 * x + 1.1523E-004$$

$$R = 1.0000$$

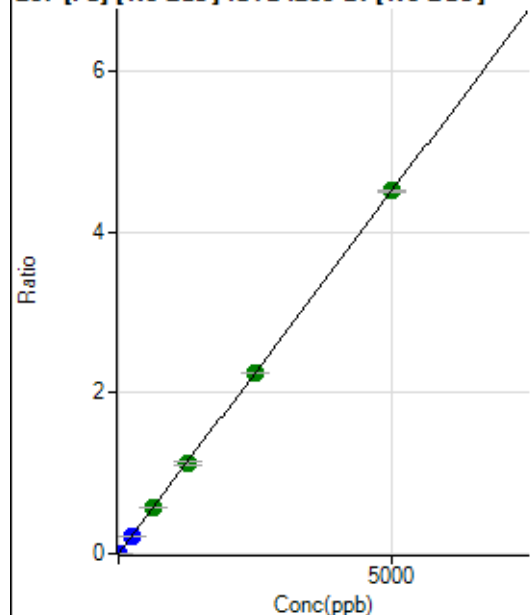
$$DL = 0.01543$$

$$BEC = 0.1131$$

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	511.13	0.0001	P	4.6
2	☐	1.000	0.852	4354.51	0.0009	P	3.5
3	☐	250.000	239.569	1072901.17	0.2159	P	5.6
4	☐	625.000	634.330	2827811.76	0.5715	A	1.8
5	☐	1250.000	1246.773	5569531.84	1.1232	A	2.4
6	☐	2500.000	2487.764	11001945.96	2.2411	A	0.3
7	☐	5000.000	5006.280	21704840.99	4.5099	A	0.6
8	☐			5278.96	0.0013	P	7.5

$$y = 9.0082\text{E-}004 * x + 1.0354\text{E-}004$$

$$R = 1.0000$$

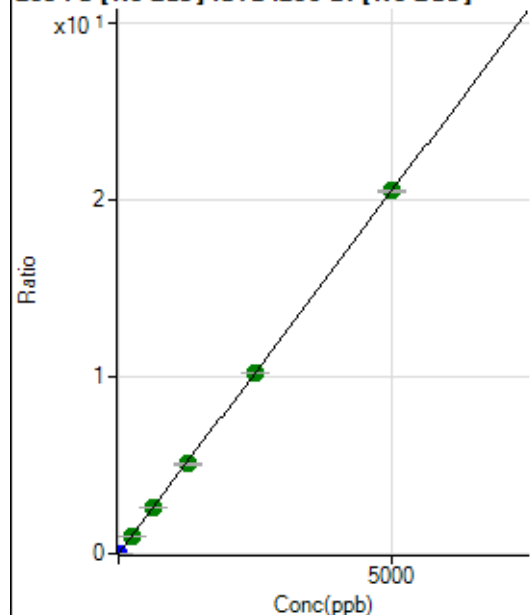
$$DL = 0.01573$$

$$BEC = 0.1149$$

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	2205.67	0.0004	P	6.0
2	☐	1.000	0.849	19608.00	0.0039	P	2.7
3	☐	250.000	243.835	4966930.47	0.9994	A	5.0
4	☐	625.000	629.921	12771839.38	2.5810	A	1.0
5	☐	1250.000	1235.844	25106557.45	5.0633	A	2.3
6	☐	2500.000	2495.944	50197994.64	10.2256	A	0.3
7	☐	5000.000	5005.260	98694085.08	20.5055	A	0.5
8	☐			23762.59	0.0058	P	5.1

$$y = 0.0041 * x + 4.4659\text{E-}004$$

$$R = 1.0000$$

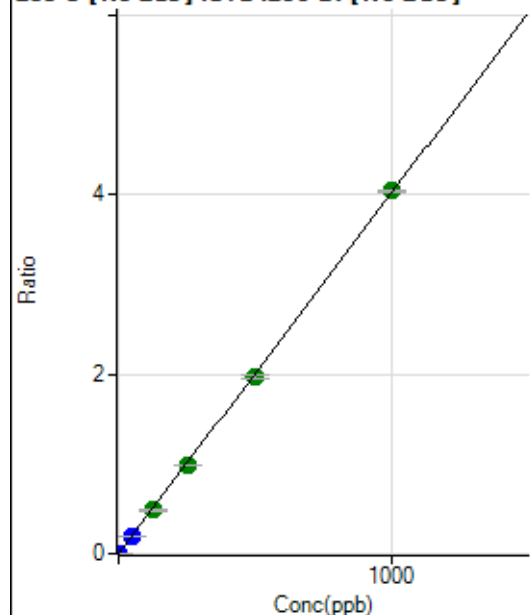
$$DL = 0.01961$$

$$BEC = 0.109$$

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	177.78	0.0000	P	28.5
2	☐	1.000	0.885	17932.63	0.0036	P	2.5
3	☐	50.000	46.822	934531.12	0.1879	P	1.5
4	☐	125.000	121.013	2402426.88	0.4855	A	2.2
5	☐	250.000	244.078	4856452.19	0.9792	A	1.1
6	☐	500.000	491.611	9681382.94	1.9723	A	1.5
7	☐	1000.000	1006.333	19432150.44	4.0372	A	0.9
8	☐			1350.12	0.0003	P	16.7

$$y = 0.0040 * x + 3.6103E-005$$

$$R = 0.9999$$

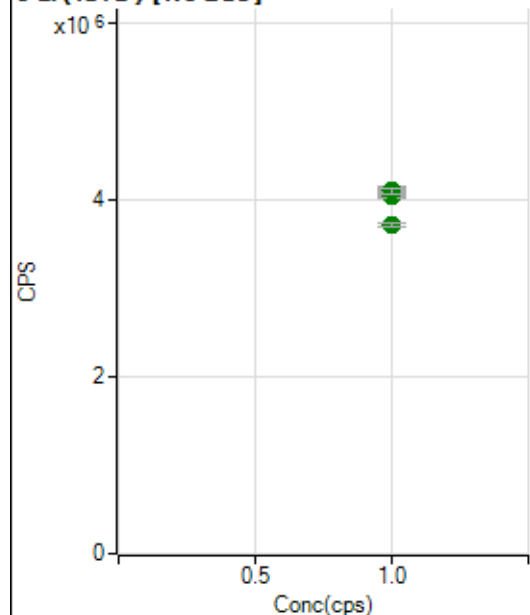
$$DL = 0.007685$$

$$BEC = 0.008999$$

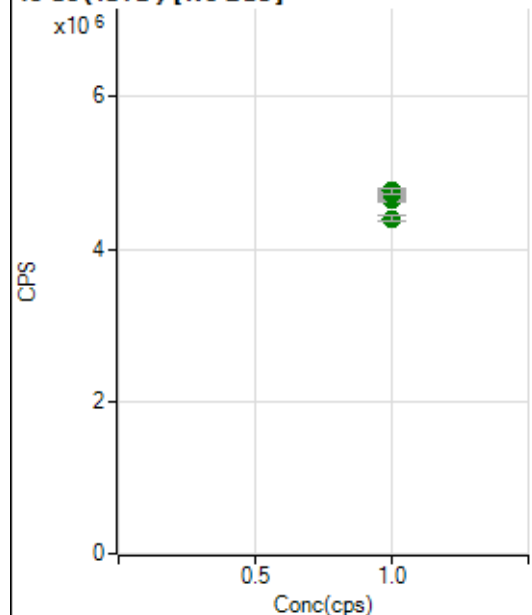
Weight: <None>

Min Conc: 0

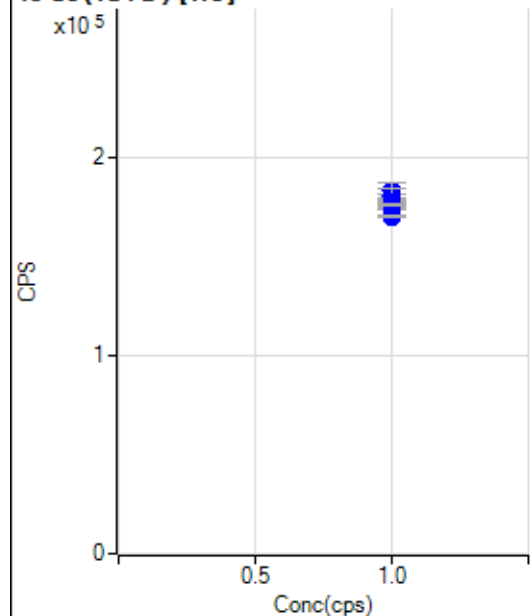
6 Li (ISTD) [No Gas]



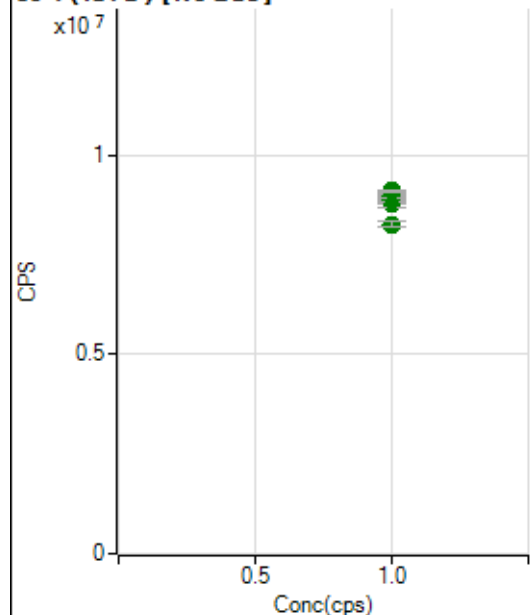
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4095304.89		A	2.3
2	☐	1.000		4091900.13		A	0.7
3	☐	1.000		4054450.93		A	2.4
4	☐	1.000		4059705.95		A	1.3
5	☐	1.000		4045523.40		A	0.8
6	☐	1.000		4046942.31		A	1.0
7	☐	1.000		4094699.73		A	1.6
8	☐	1.000		3714494.24		A	1.5

45 Sc (ISTD) [No Gas]

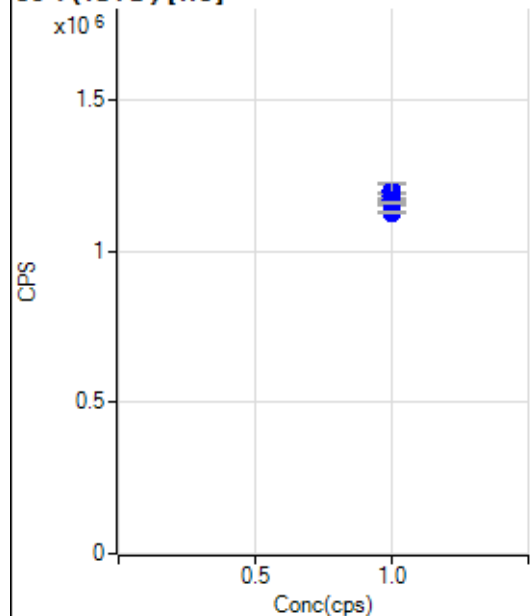
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4687981.70		A	0.9
2	☐	1.000		4753598.68		A	0.5
3	☐	1.000		4692945.35		A	3.2
4	☐	1.000		4653386.15		A	2.0
5	☐	1.000		4709118.02		A	2.3
6	☐	1.000		4728855.45		A	0.7
7	☐	1.000		4761551.66		A	1.6
8	☐	1.000		4403016.25		A	1.4

45 Sc (ISTD) [He]

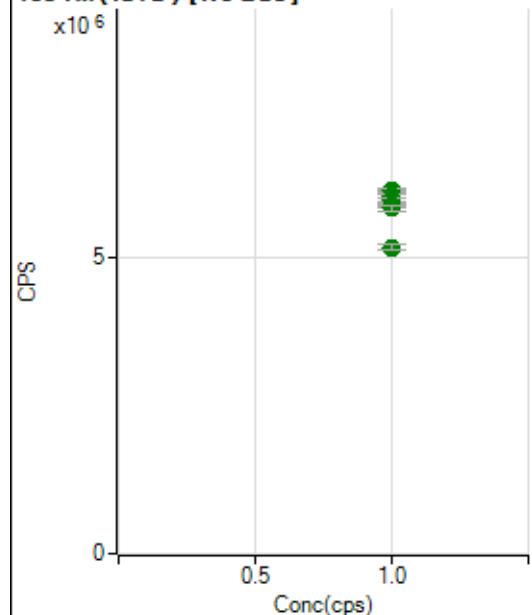
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		179150.06		P	0.2
2	☐	1.000		180328.26		P	1.4
3	☐	1.000		182883.41		P	4.5
4	☐	1.000		180246.35		P	4.1
5	☐	1.000		174389.26		P	0.5
6	☐	1.000		176958.14		P	0.4
7	☐	1.000		175888.66		P	0.6
8	☐	1.000		169806.40		P	0.5

89 Y (ISTD) [No Gas]

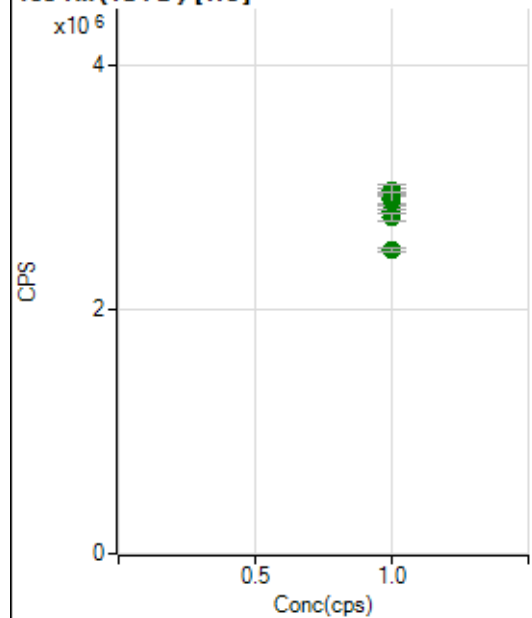
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8811653.34		A	2.2
2	☐	1.000		8849475.91		A	0.7
3	☐	1.000		8870917.37		A	1.9
4	☐	1.000		8826208.96		A	2.8
5	☐	1.000		8908016.39		A	1.5
6	☐	1.000		8996271.04		A	0.9
7	☐	1.000		9110764.24		A	0.3
8	☐	1.000		8271379.81		A	1.4

89 Y (ISTD) [He]

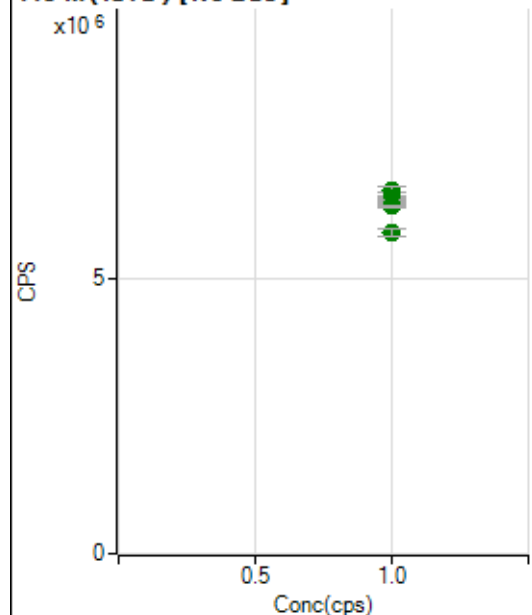
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1178677.20		P	1.3
2	☐	1.000		1188673.46		P	0.6
3	☐	1.000		1193872.48		P	3.9
4	☐	1.000		1197999.52		P	4.1
5	☐	1.000		1154316.60		P	0.8
6	☐	1.000		1167652.80		P	1.1
7	☐	1.000		1159750.02		P	0.8
8	☐	1.000		1125260.54		P	0.4

103 Rh (ISTD) [No Gas]

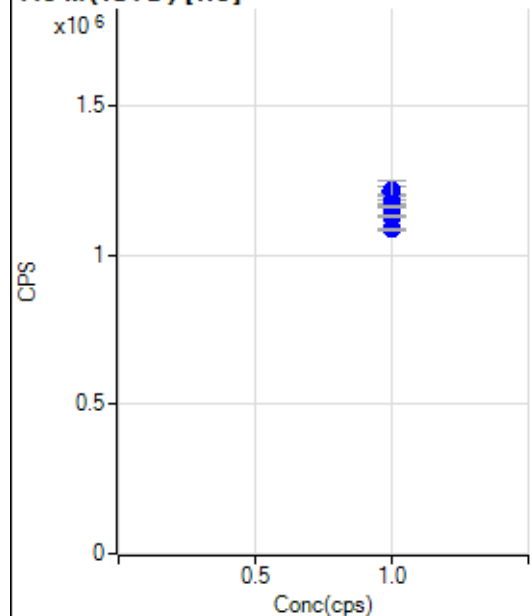
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6098218.02		A	0.9
2	☐	1.000		6118209.25		A	1.0
3	☐	1.000		6043065.41		A	1.1
4	☐	1.000		6030707.90		A	0.6
5	☐	1.000		5956111.81		A	1.2
6	☐	1.000		5865826.26		A	0.8
7	☐	1.000		5830077.26		A	1.6
8	☐	1.000		5168188.75		A	1.8

103 Rh (ISTD) [He]

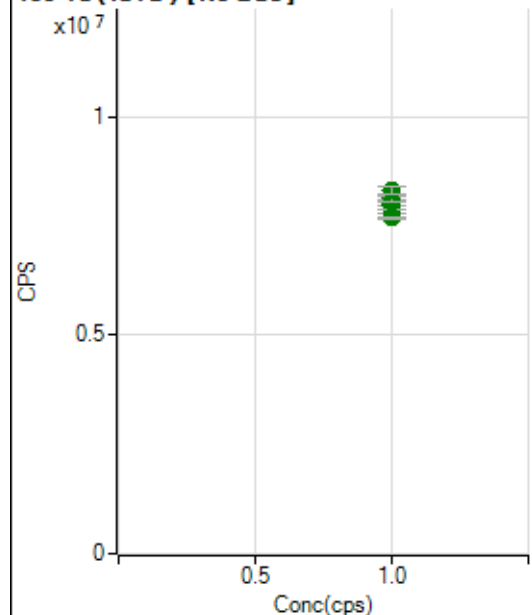
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2904637.18		A	2.8
2	☐	1.000		2963749.96		A	1.4
3	☐	1.000		2969333.39		A	3.2
4	☐	1.000		2901871.69		A	3.6
5	☐	1.000		2821528.08		A	2.1
6	☐	1.000		2804433.57		A	1.4
7	☐	1.000		2752946.21		A	2.3
8	☐	1.000		2489453.12		A	1.0

115 In (ISTD) [No Gas]

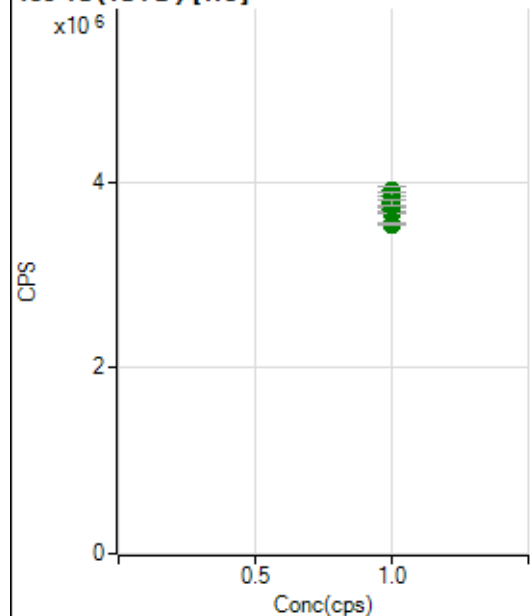
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6436755.25		A	3.4
2	☐	1.000		6581725.70		A	2.6
3	☐	1.000		6398459.36		A	2.5
4	☐	1.000		6327626.93		A	0.2
5	☐	1.000		6440923.38		A	0.7
6	☐	1.000		6398347.17		A	0.8
7	☐	1.000		6299090.88		A	0.8
8	☐	1.000		5837617.67		A	2.3

115 In (ISTD) [He]

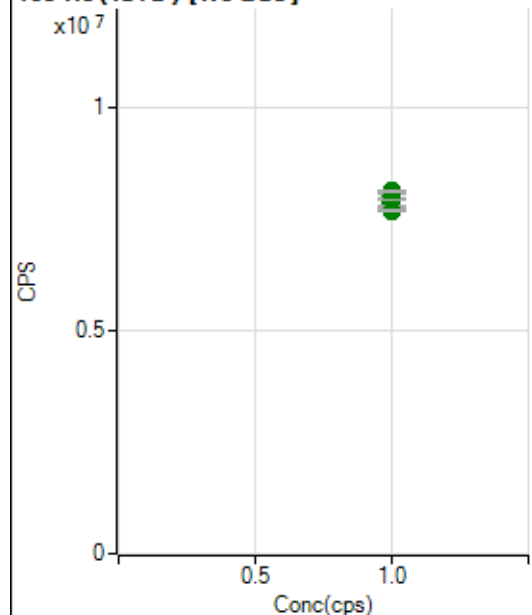
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1206692.19		P	0.3
2	☐	1.000		1205470.57		P	0.2
3	☐	1.000		1214819.05		P	2.3
4	☐	1.000		1216406.07		P	5.2
5	☐	1.000		1171728.18		P	0.7
6	☐	1.000		1163504.21		P	0.7
7	☐	1.000		1129814.50		P	0.7
8	☐	1.000		1086664.76		P	0.2

159 Tb (ISTD) [No Gas]

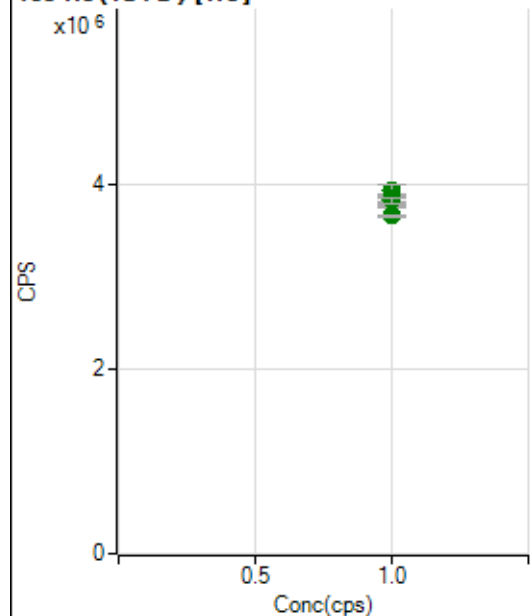
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7887876.90		A	2.4
2	☐	1.000		8013003.01		A	1.7
3	☐	1.000		7962582.80		A	2.1
4	☐	1.000		8094611.13		A	1.6
5	☐	1.000		8157234.81		A	2.1
6	☐	1.000		8122396.20		A	1.4
7	☐	1.000		8296371.13		A	2.2
8	☐	1.000		7679849.05		A	0.8

159 Tb (ISTD) [He]

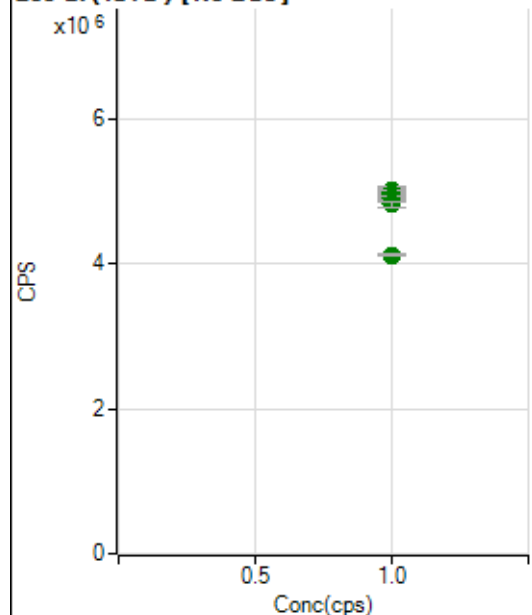
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3673210.64		A	1.0
2	☐	1.000		3701654.08		A	1.5
3	☐	1.000		3797647.58		A	2.4
4	☐	1.000		3906457.72		A	2.5
5	☐	1.000		3744082.03		A	0.3
6	☐	1.000		3853299.66		A	2.3
7	☐	1.000		3778279.73		A	1.3
8	☐	1.000		3550422.14		A	0.5

165 Ho (ISTD) [No Gas]

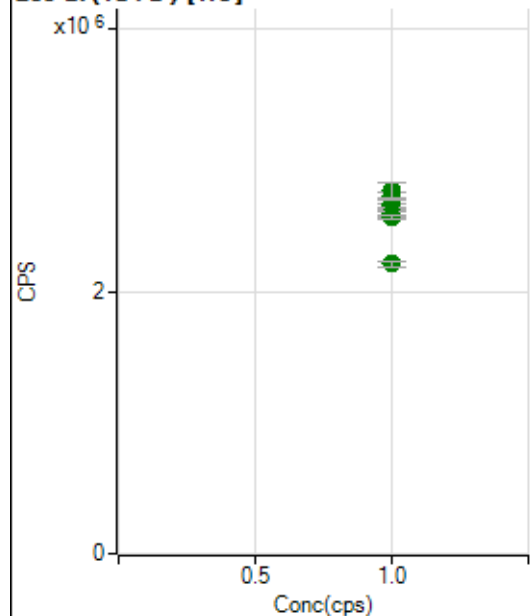
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7847276.56		A	1.3
2	☐	1.000		7861306.69		A	2.6
3	☐	1.000		7872611.55		A	2.0
4	☐	1.000		7979245.23		A	2.1
5	☐	1.000		7934580.65		A	0.7
6	☐	1.000		7985063.55		A	1.5
7	☐	1.000		8115488.72		A	0.5
8	☐	1.000		7658126.30		A	0.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3797848.97		A	0.4
2	☐	1.000		3809640.01		A	2.4
3	☐	1.000		3842950.46		A	3.4
4	☐	1.000		3939526.16		A	3.8
5	☐	1.000		3840801.57		A	1.7
6	☐	1.000		3853405.40		A	1.8
7	☐	1.000		3838788.17		A	1.7
8	☐	1.000		3673091.68		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4936577.70		A	1.8
2	☐	1.000		4998364.75		A	1.3
3	☐	1.000		4975960.06		A	3.7
4	☐	1.000		4948949.44		A	1.9
5	☐	1.000		4960050.76		A	2.0
6	☐	1.000		4909130.59		A	0.9
7	☐	1.000		4812977.60		A	1.6
8	☐	1.000		4119404.56		A	1.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2654105.50		A	1.7
2	☐	1.000		2664434.23		A	2.1
3	☐	1.000		2731900.72		A	2.3
4	☐	1.000		2767176.63		A	4.2
5	☐	1.000		2594468.16		A	1.8
6	☐	1.000		2595181.54		A	1.3
7	☐	1.000		2565443.68		A	1.4
8	☐	1.000		2211943.04		A	1.9

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8022123-MS.b

Acq. Date-Time 2023-02-21 11:00:20

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		13101	131012.17			2.474	5.000
24		70631	706309.92			1.909	5.000
25		9742	97418.36			2.495	5.000
26		11530	115303.42			2.548	5.000
59		50249	502494.73			2.230	5.000
113		5507	55070.50			2.297	5.000
115		68985	689846.31			3.256	5.000
206		15826	158258.79			2.773	5.000
207		14133	141326.69			2.611	5.000
208		34463	344633.81			2.522	5.000
220		0	3.80			51.468	

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

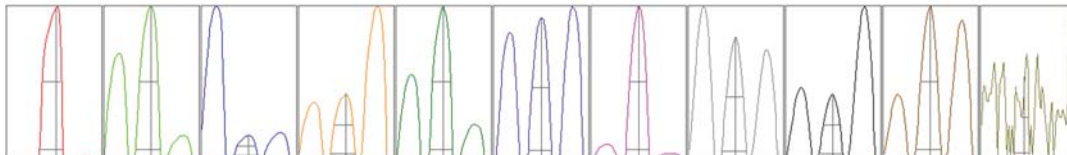
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	13334	12796	12948	12879	13548
24	71464	70215	69689	69253	72534
25	9762	9565	9616	9611	10156
26	11538	11224	11445	11431	12014
59	50715	49103	49723	49738	51968
113	5536	5396	5456	5433	5714
115	69263	67330	67908	67642	72780
206	15780	15618	15845	15353	16534
207	14234	13746	14005	13962	14716
208	34554	33668	34556	33724	35815

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	23007.61	9.10	8.90 - 9.10	
24	125126.15	24.00	23.90 - 24.10	
25	17576.11	25.00	24.90 - 25.10	
26	20327.27	26.00	25.90 - 26.10	
59	93946.79	59.00	58.90 - 59.10	
113	10837.78	113.05	112.90 - 113.10	
115	137855.35	115.05	114.90 - 115.10	
206	31146.51	206.00	205.90 - 206.10	
207	27834.88	207.00	206.90 - 207.10	
208	66977.17	208.00	207.90 - 208.10	
220	0.50	219.90	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.736	0.900	
24	0.58	0.780	0.900	
25	0.59	0.739	0.900	
26	0.60	0.784	0.900	
59	0.57	0.734	0.900	
113	0.52	0.728	0.900	
115	0.52	0.727	0.900	
206	0.53	0.776	0.900	
207	0.53	0.747	0.900	
208	0.53	0.805	0.900	
220	0.23	0.495		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.8 V	Deflect	16.2 V
Extract 2	-175.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-90 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

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

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.7 mm
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EM

Discriminator	4.5 mV	Analog HV	2312 V	Pulse HV	1704 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		11450	114495.35			3.118	
89		14168	141680.86			3.342	
205		10316	103164.95			2.585	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	11629	10913	11267	11647	11792
89	14279	13540	13852	14437	14732
205	10496	9880	10256	10411	10539

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.8 V	Deflect	3.6 V
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US EPA Tune Check Report

Extract 2	-175.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-90 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

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

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.7 mm
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EM

Discriminator	4.5 mV	Analog HV	2312 V	Pulse HV	1704 V
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