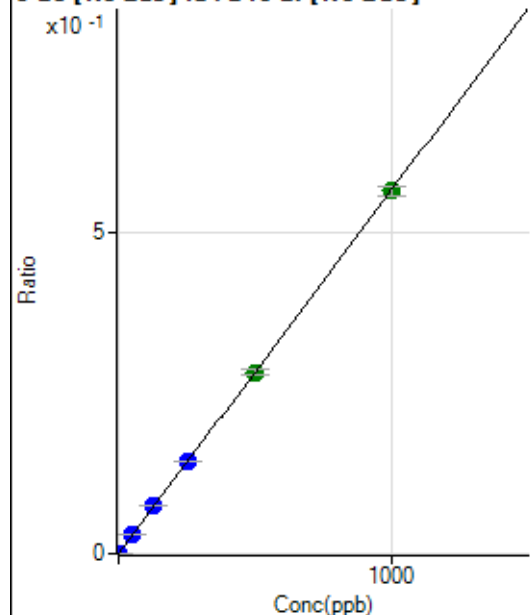


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8011823 MS.b\
Analysis File: P8011823 MS.batch.bin
DA Date-Time: 2023-01-18 15:08:10
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-01-18 12:09:38
2	005CALS.d	S02	2023-01-18 12:12:48
3	006CALS.d	S03	2023-01-18 12:16:00
4	007CALS.d	S04	2023-01-18 12:19:06
5	008CALS.d	S05	2023-01-18 12:22:15
6	009CALS.d	S06	2023-01-18 12:25:21
7	010CALS.d	S07	2023-01-18 12:28:29
8	011CALS.d	S08	2023-01-18 12:31:35

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.75	0.0000	P	17.7
2	☐	1.000	1.123	3322.05	0.0006	P	0.7
3	☐	50.000	53.245	156022.93	0.0301	P	0.8
4	☐	125.000	131.557	383927.25	0.0744	P	0.9
5	☐	250.000	255.014	742797.37	0.1441	P	0.6
6	☐	500.000	499.637	1415082.46	0.2824	A	3.6
7	☐	1000.000	997.946	2742461.03	0.5641	A	2.7
8	☐			1213.65	0.0003	P	3.1

$$y = 5.6523\text{E-}004 * x + 8.4055\text{E-}006$$

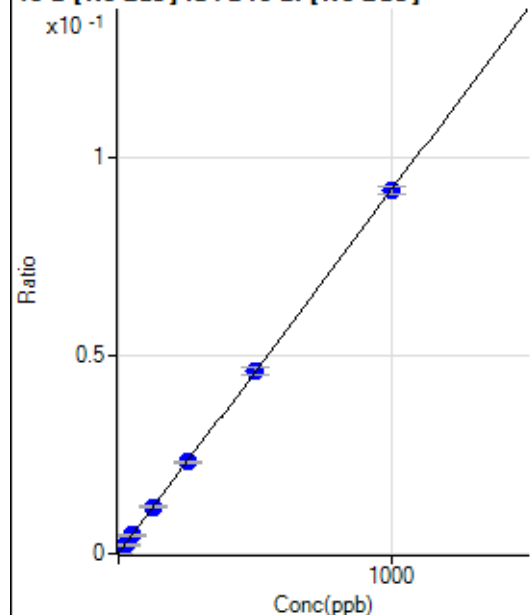
$$R = 1.0000$$

$$DL = 0.007885$$

$$BEC = 0.01487$$

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	464.58	0.0001	P	4.3
2	☐	25.000	23.431	11568.29	0.0022	P	6.3
3	☐	50.000	49.816	24169.78	0.0047	P	3.8
4	☐	125.000	126.788	60553.72	0.0117	P	4.1
5	☐	250.000	250.799	119147.56	0.0231	P	2.1
6	☐	500.000	503.961	232298.79	0.0464	P	4.2
7	☐	1000.000	997.645	445849.54	0.0917	P	2.3
8	☐			21373.32	0.0046	P	9.2

$$y = 9.1841\text{E-}005 * x + 8.9243\text{E-}005$$

$$R = 1.0000$$

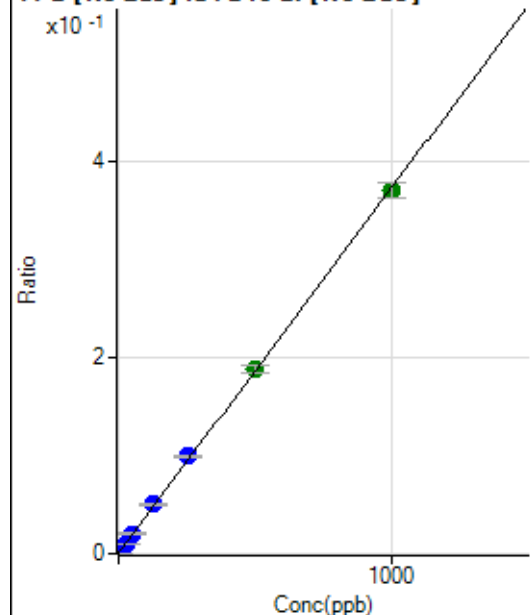
$$DL = 0.1243$$

$$BEC = 0.9717$$

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	1926.42	0.0004	P	3.1
2	☐	25.000	24.928	49953.32	0.0097	P	4.2
3	☐	50.000	54.022	106400.25	0.0205	P	3.1
4	☐	125.000	135.437	262809.35	0.0509	P	3.6
5	☐	250.000	266.569	514594.12	0.0999	P	2.6
6	☐	500.000	504.640	945406.95	0.1887	A	4.0
7	☐	1000.000	992.034	1801646.32	0.3706	A	4.4
8	☐			94655.47	0.0205	P	8.0

$$y = 3.7325E-004 * x + 3.7000E-004$$

$$R = 0.9998$$

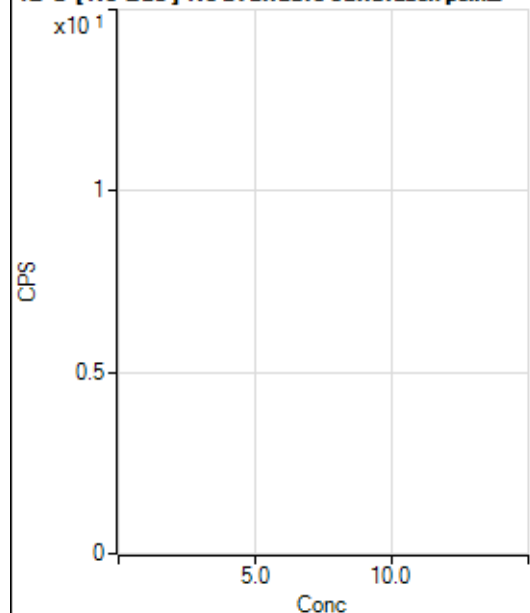
$$DL = 0.09185$$

$$BEC = 0.9913$$

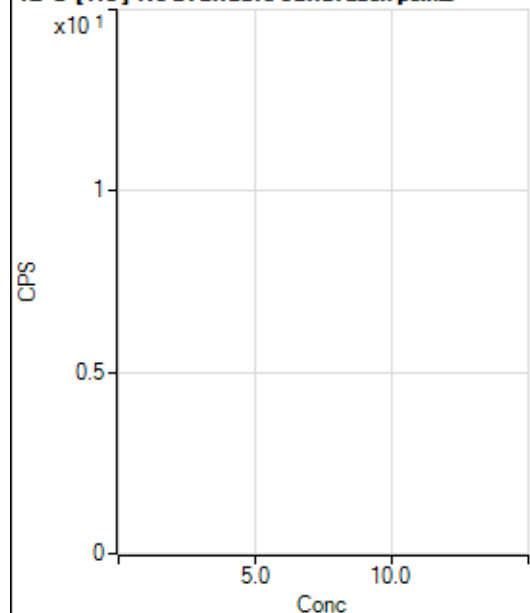
Weight: <None>

Min Conc: 0

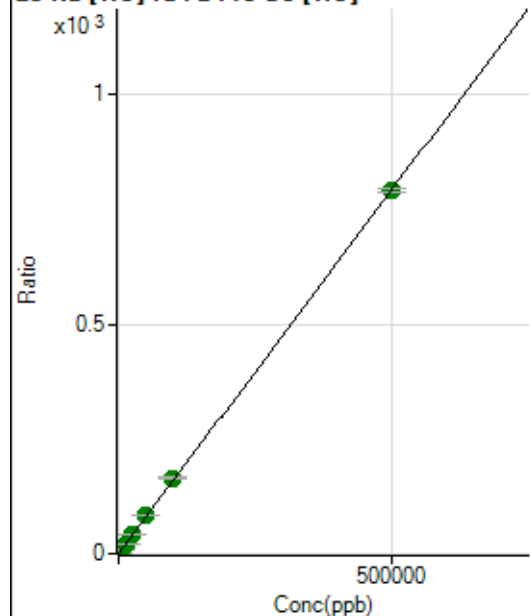
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			6568541.12		A	2.4
2	☐			6886808.31		A	1.3
3	☐			6923946.68		A	1.3
4	☐			7122832.62		A	0.6
5	☐			7237409.37		A	0.6
6	☐			7590504.86		A	0.5
7	☐			8256542.28		A	2.4
8	☐			7726428.64		A	1.8

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			68381.53		P	1.3
2	☐			71976.66		P	0.9
3	☐			72331.13		P	1.8
4	☐			75630.97		P	1.0
5	☐			77396.18		P	0.7
6	☐			84582.24		P	0.5
7	☐			90017.31		P	1.0
8	☐			86694.54		P	0.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13231.31	0.0755	P	1.6
2	☐	500.000	495.976	156414.79	0.8604	P	1.1
3	☐	5000.000	5147.235	1487666.32	8.2211	A	0.3
4	☐	12500.000	13017.971	3647518.83	20.6766	A	2.8
5	☐	25000.000	25861.760	6891658.75	41.0019	A	2.1
6	☐	50000.000	52381.991	13852058.64	82.9704	A	1.1
7	☐	100000.00	103271.70	27733811.73	163.5037	A	2.7
8	☐	500000.00	499049.95	130559927.9	789.8254	A	1.1

$$y = 0.0016 * x + 0.0755$$

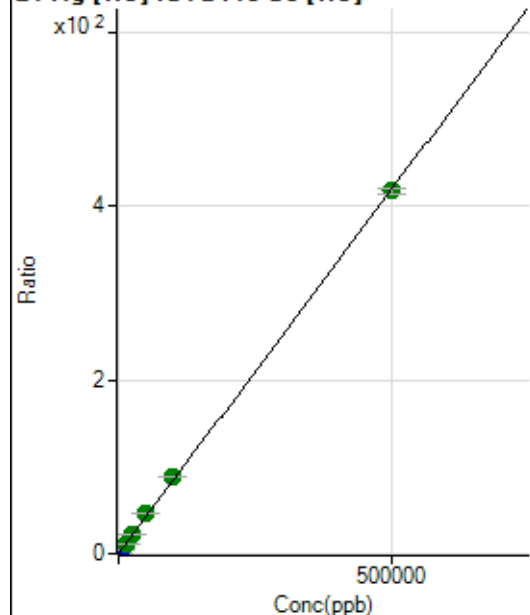
$$R = 1.0000$$

$$DL = 2.227$$

$$BEC = 47.73$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	472.24	0.0027	P	14.9
2	☐	500.000	522.862	80149.74	0.4408	P	2.7
3	☐	5000.000	5374.200	815440.24	4.5061	P	2.1
4	☐	12500.000	14096.388	2084252.58	11.8151	A	3.6
5	☐	25000.000	27236.793	3836819.57	22.8264	A	3.4
6	☐	50000.000	54840.126	7672681.16	45.9573	A	1.0
7	☐	100000.00	106286.92	15107259.54	89.0683	A	1.2
8	☐	500000.00	498103.08	68993483.49	417.4000	A	1.7

$$y = 8.3797\text{E-}004 * x + 0.0027$$

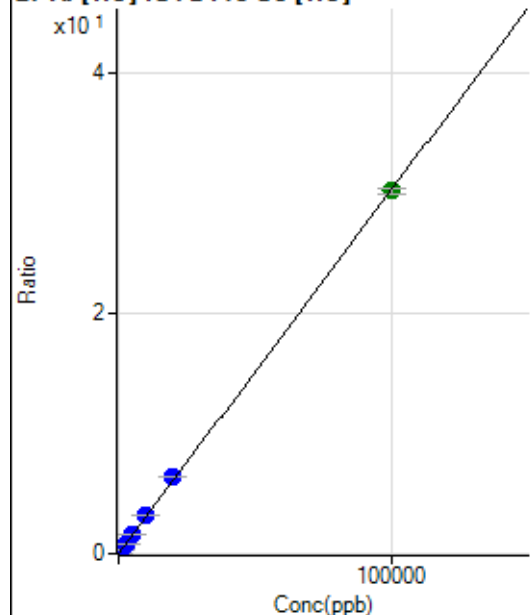
R = 0.9999

DL = 1.437

BEC = 3.209

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	77.07	0.0004	P	15.6
2	☐	20.000	33.733	1940.31	0.0107	P	0.4
3	☐	1000.000	1045.414	57468.82	0.3176	P	0.6
4	☐	2500.000	2680.993	143558.47	0.8138	P	2.8
5	☐	5000.000	5408.659	275881.81	1.6413	P	2.7
6	☐	10000.000	10724.966	543307.78	3.2542	P	0.7
7	☐	20000.000	21134.016	1087608.03	6.4121	P	2.2
8	☐	100000.00	99675.286	4998287.36	30.2402	A	1.8

$$y = 3.0338\text{E-}004 * x + 4.3873\text{E-}004$$

R = 0.9999

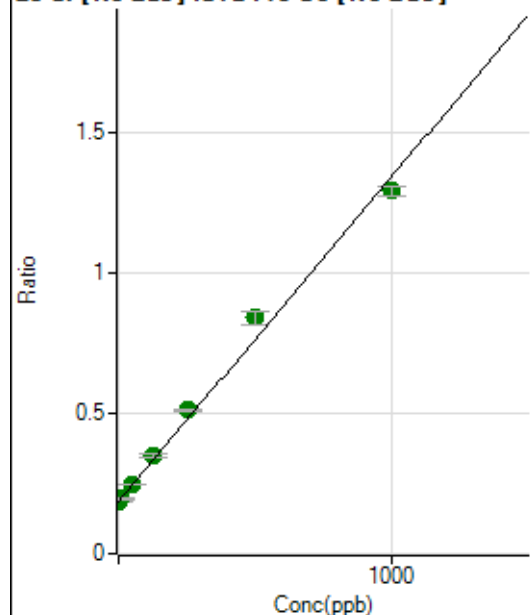
DL = 0.6762

BEC = 1.446

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1033688.69	0.1857	A	1.5
2	☐	10.000	8.140	1086589.69	0.1951	A	1.8
3	☐	50.000	52.864	1378914.43	0.2468	A	1.9
4	☐	125.000	143.296	1919213.98	0.3514	A	4.0
5	☐	250.000	280.763	2770151.60	0.5103	A	0.5
6	☐	500.000	566.674	4559827.10	0.8407	A	5.7
7	☐	1000.000	956.560	6913845.12	1.2914	A	2.7
8	☐			1163604.58	0.2275	A	4.3

$$y = 0.0012 * x + 0.1857$$

R = 0.9958

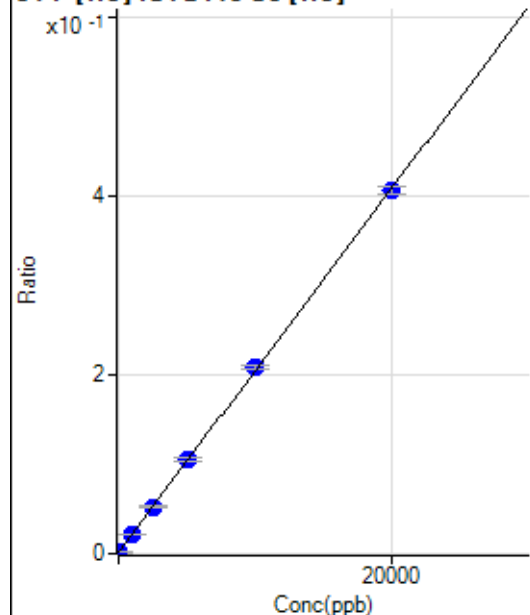
DL = 7.047

BEC = 160.7

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-10.544	216.68	0.0012	P	28.4
2	☐	0.000	10.544	302.79	0.0017	P	9.8
3	☐	1000.000	1020.478	4011.78	0.0222	P	3.4
4	☐	2500.000	2506.313	9236.53	0.0524	P	1.9
5	☐	5000.000	5118.956	17722.42	0.1054	P	2.4
6	☐	10000.000	10174.805	34742.29	0.2081	P	2.8
7	☐	20000.000	19881.046	68747.80	0.4053	P	2.2
8	☐			216.67	0.0013	P	11.7

$$y = 2.0314E-005 * x + 0.0015$$

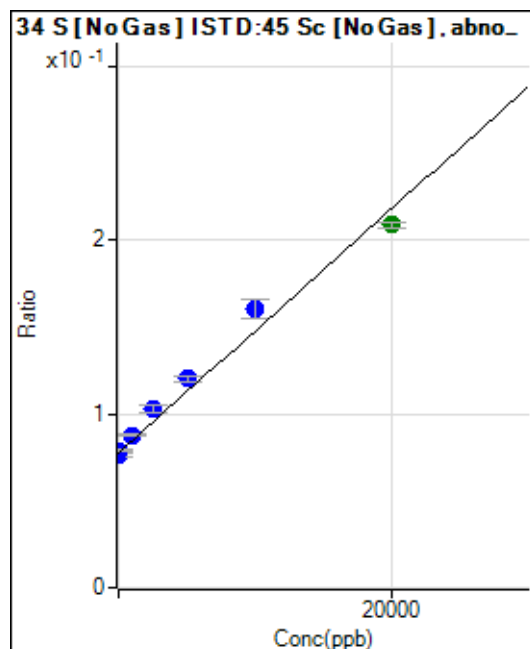
R = 0.9999

DL = 38.07

BEC = 71.41

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-167.715	424820.72	0.0763	P	2.2
2	☐	0.000	167.715	438202.25	0.0787	P	1.1
3	☐	1000.000	1419.698	488735.99	0.0875	P	1.2
4	☐	2500.000	3605.019	561621.86	0.1028	P	3.6
5	☐	5000.000	6105.554	653177.47	0.1204	P	2.7
6	☐	10000.000	11799.479	869255.48	0.1603	P	6.4
7	☐	20000.000	18664.760	1116349.30	0.2085	A	1.9
8	☐			372752.43	0.0728	P	2.7

$$y = 7.0183\text{E-}006 * x + 0.0775$$

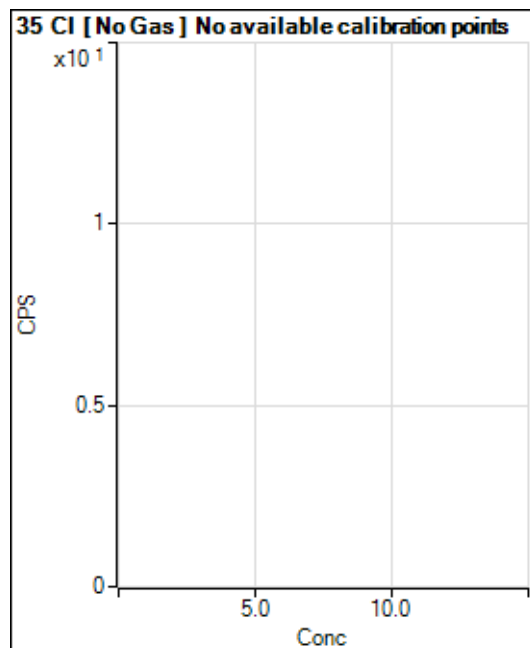
$$R = 0.9907$$

$$DL = 546$$

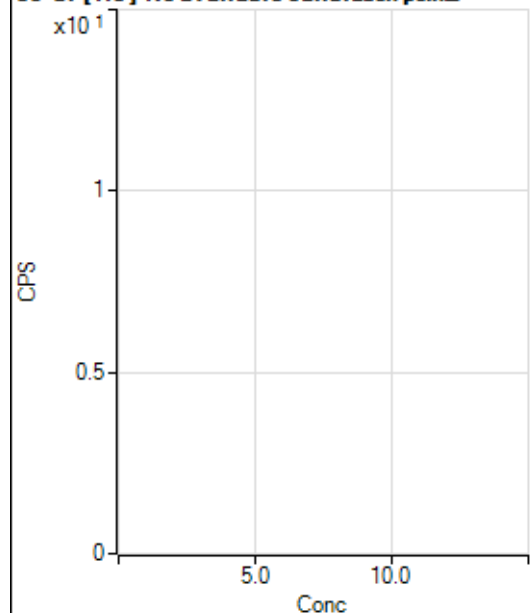
$$BEC = 1.104\text{E}+04$$

Weight: <None>

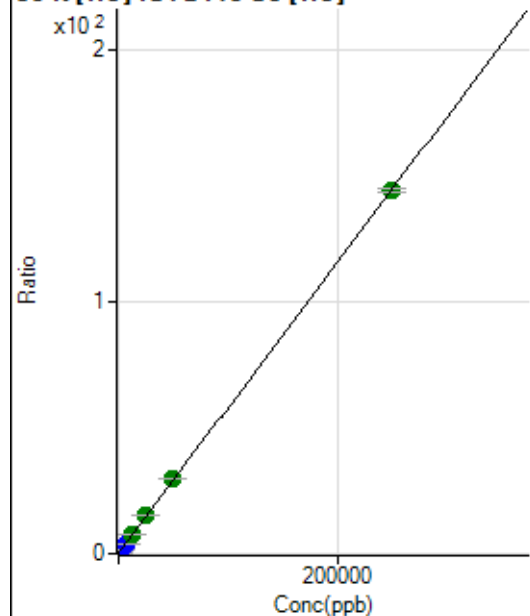
Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			198939.83		P	1.4
2	☐			200882.36		P	0.6
3	☐			203048.06		P	0.3
4	☐			204424.02		P	1.0
5	☐			196428.27		P	0.6
6	☐			197792.86		P	1.1
7	☐			207367.54		P	1.3
8	☐			193408.65		P	0.9

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1291.76		P	15.3
2	☐			1480.67		P	7.1
3	☐			1439.00		P	9.0
4	☐			1550.12		P	12.1
5	☐			1333.43		P	8.2
6	☐			1336.21		P	4.7
7	☐			1414.00		P	7.5
8	☐			1366.76		P	5.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	23903.72	0.1365	P	5.2
2	☐	500.000	499.128	77120.65	0.4242	P	1.8
3	☐	2500.000	2577.159	293526.59	1.6218	P	1.2
4	☐	6250.000	6581.166	693148.51	3.9295	P	2.1
5	☐	12500.000	13154.514	1297176.73	7.7179	A	0.6
6	☐	25000.000	26236.978	2547723.32	15.2577	A	1.3
7	☐	50000.000	51647.267	5071880.93	29.9025	A	1.2
8	☐	250000.00	249505.07	23792144.11	143.9342	A	1.1

$$y = 5.7633\text{E-}004 * x + 0.1365$$

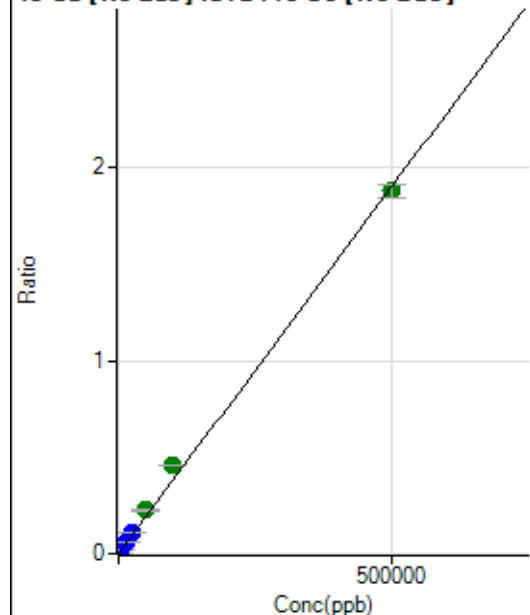
$$R = 1.0000$$

$$DL = 37.06$$

$$BEC = 236.9$$

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	183.31	0.0000	P	16.8
2	☐	500.000	521.933	11220.48	0.0020	P	1.6
3	☐	5000.000	5935.300	126095.01	0.0226	P	1.5
4	☐	12500.000	15083.635	312974.12	0.0573	P	4.6
5	☐	25000.000	29484.916	607785.70	0.1120	P	2.1
6	☐	50000.000	59106.089	1216726.88	0.2245	A	7.0
7	☐	100000.00	120467.00	2449750.40	0.4574	A	1.4
8	☐	500000.00	494697.77	9608604.15	1.8784	A	4.0

$$y = 3.7970\text{E-}006 * x + 3.2951\text{E-}005$$

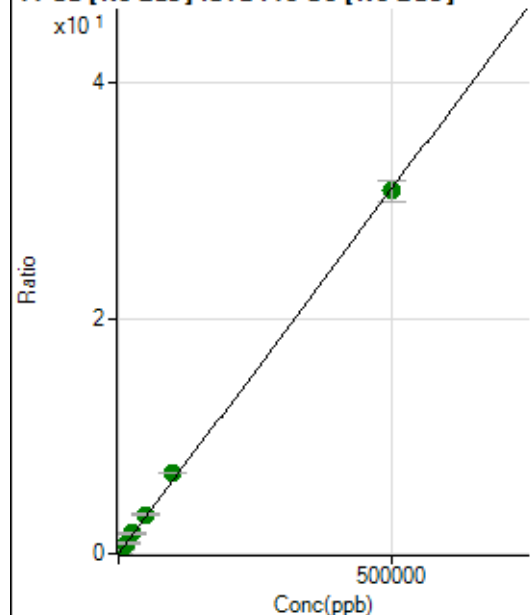
$$R = 0.9990$$

$$DL = 4.383$$

$$BEC = 8.678$$

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	16197.00	0.0029	P	2.9
2	☐	500.000	525.555	197809.52	0.0355	P	0.2
3	☐	5000.000	5717.517	1998821.41	0.3576	A	2.1
4	☐	12500.000	14242.467	4842595.93	0.8866	A	4.2
5	☐	25000.000	27659.666	9328784.54	1.7190	A	3.8
6	☐	50000.000	53429.796	18001154.05	3.3178	A	5.0
7	☐	100000.00	110292.50	36658924.78	6.8458	A	0.6
8	☐	500000.00	497414.77	157825297.0	30.8640	A	5.7

$$y = 6.2043\text{E-}005 * x + 0.0029$$

$$R = 0.9998$$

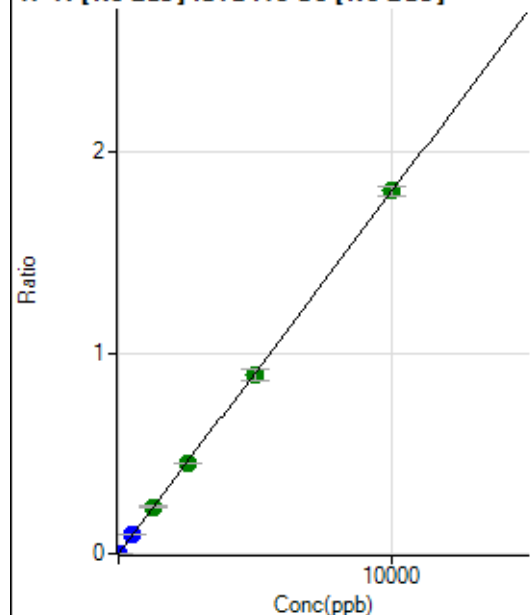
$$DL = 4.014$$

$$BEC = 46.91$$

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	294.46	0.0001	P	3.8
2	☐	5.000	4.982	5301.15	0.0010	P	3.2
3	☐	500.000	509.389	513987.29	0.0920	P	0.2
4	☐	1250.000	1281.589	1264098.64	0.2313	A	3.6
5	☐	2500.000	2497.255	2446336.84	0.4507	A	2.0
6	☐	5000.000	4947.981	4841456.06	0.8930	A	6.7
7	☐	10000.000	10022.278	9683315.49	1.8087	A	2.7
8	☐			8230.38	0.0016	P	5.6

$$y = 1.8047E-004 * x + 5.2907E-005$$

$$R = 1.0000$$

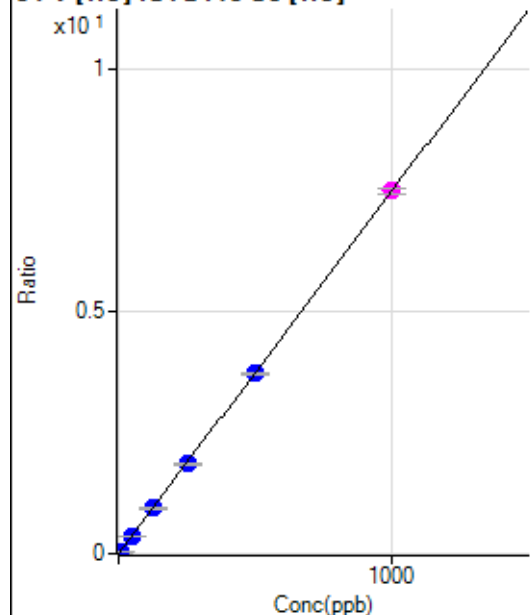
$$DL = 0.03332$$

$$BEC = 0.2932$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4.44	0.0000	P	42.0
2	☐	5.000	5.011	6805.02	0.0374	P	1.1
3	☐	50.000	49.206	66469.31	0.3673	P	0.6
4	☐	125.000	125.034	164635.90	0.9334	P	2.0
5	☐	250.000	248.579	311892.83	1.8556	P	1.8
6	☐	500.000	497.608	620225.50	3.7146	P	1.3
7	☐	1000.000	1001.587	1268124.57	7.4768	M	1.5
8	☐			2524.73	0.0153	P	16.7

$$y = 0.0075 * x + 2.5276E-005$$

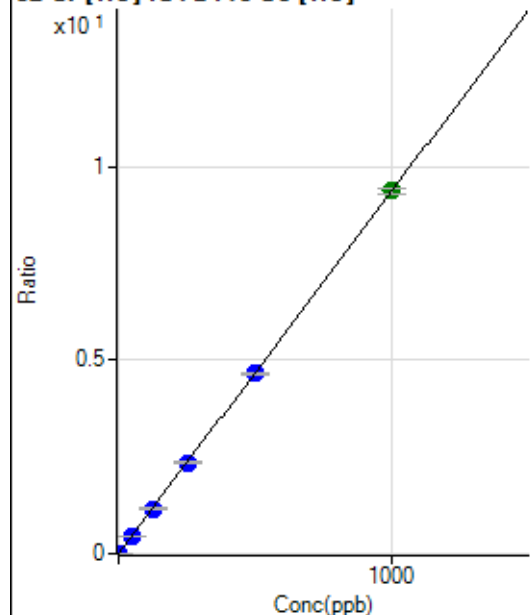
$$R = 1.0000$$

$$DL = 0.004263$$

$$BEC = 0.003386$$

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	488.90	0.0028	P	11.0
2	☐	2.000	1.984	3883.91	0.0214	P	3.1
3	☐	50.000	49.008	83558.05	0.4618	P	1.1
4	☐	125.000	124.101	205529.71	1.1652	P	0.9
5	☐	250.000	250.081	394186.07	2.3452	P	1.9
6	☐	500.000	496.974	777725.09	4.6578	P	0.7
7	☐	1000.000	1001.655	1591863.40	9.3850	A	1.8
8	☐			13972.56	0.0845	P	3.1

$$y = 0.0094 * x + 0.0028$$

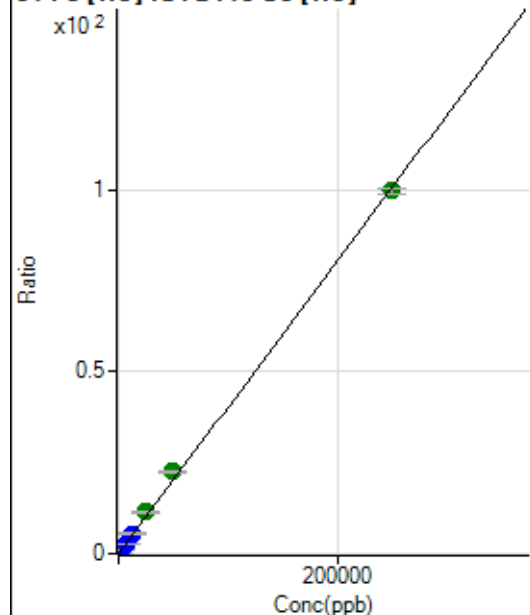
$$R = 1.0000$$

$$DL = 0.09855$$

$$BEC = 0.2974$$

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	724.11	0.0041	P	3.8
2	☐	50.000	53.327	4639.72	0.0255	P	2.4
3	☐	2500.000	2735.444	199275.31	1.1014	P	1.2
4	☐	6250.000	6932.129	491231.48	2.7849	P	1.2
5	☐	12500.000	13775.701	929506.93	5.5301	P	2.1
6	☐	25000.000	28414.780	1903585.60	11.4025	A	2.1
7	☐	50000.000	56049.600	3814161.75	22.4879	A	0.7
8	☐	250000.00	248365.40	16467713.91	99.6336	A	1.8

$$y = 4.0114E-004 * x + 0.0041$$

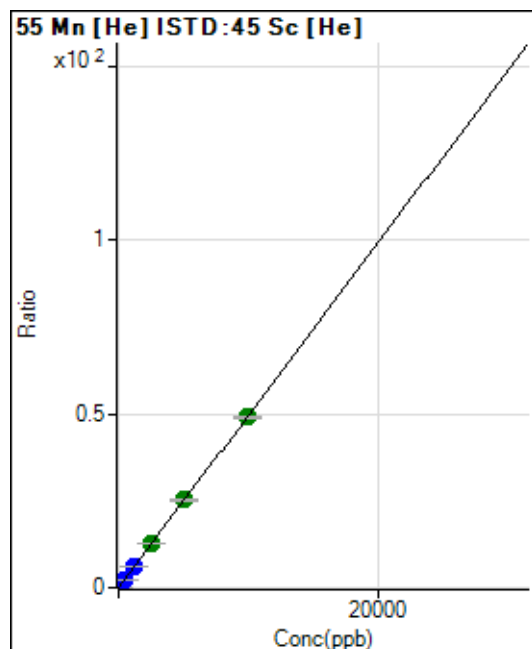
$$R = 0.9996$$

$$DL = 1.183$$

$$BEC = 10.3$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	47.78	0.0003	P	14.9
2	☐	1.000	1.130	1066.72	0.0059	P	3.6
3	☐	500.000	498.379	446464.18	2.4676	P	1.4
4	☐	1250.000	1262.341	1102397.74	6.2498	P	0.2
5	☐	2500.000	2568.497	2137259.46	12.7163	A	1.4
6	☐	5000.000	5123.391	4234220.22	25.3650	A	1.9
7	☐	10000.000	9919.719	8329574.53	49.1105	A	0.8
8	☐			12302.00	0.0743	P	15.7

$$y = 0.0050 * x + 2.7242E-004$$

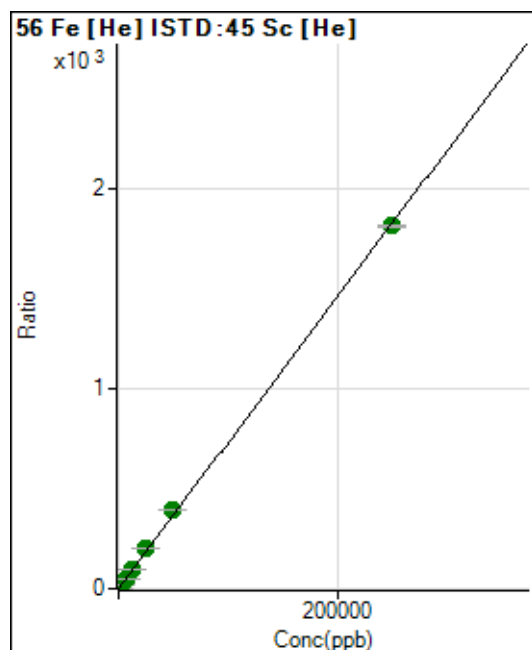
$$R = 0.9999$$

$$DL = 0.02454$$

$$BEC = 0.05503$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3870.96	0.0221	P	3.0
2	☐	50.000	52.080	73168.87	0.4025	P	0.7
3	☐	2500.000	2695.477	3566572.53	19.7095	A	0.6
4	☐	6250.000	6829.887	8803282.72	49.9067	A	1.8
5	☐	12500.000	13661.929	16775187.64	99.8071	A	1.0
6	☐	25000.000	27377.565	33389996.35	199.9843	A	1.2
7	☐	50000.000	54101.233	67026647.33	395.1706	A	2.2
8	☐	250000.00	248867.44	300477510.4	1,817.718	A	0.6

$$y = 0.0073 * x + 0.0221$$

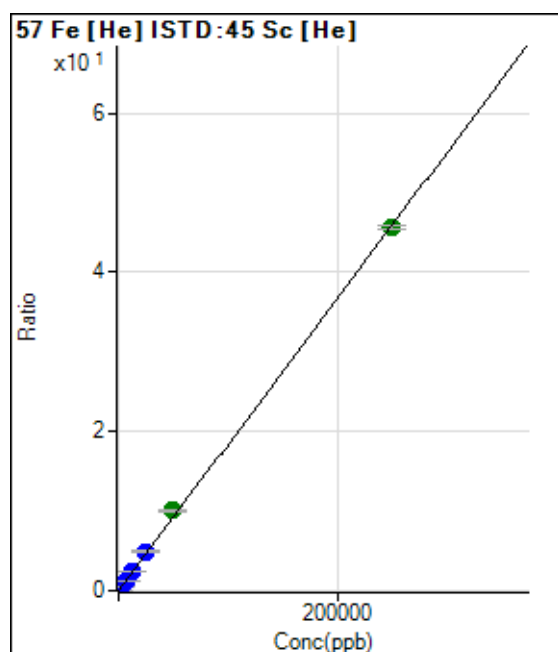
$$R = 0.9998$$

$$DL = 0.2728$$

$$BEC = 3.024$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	240.75	0.0014	P	4.5
2	☐	50.000	54.067	2050.18	0.0113	P	5.4
3	☐	2500.000	2629.966	87451.18	0.4832	P	1.4
4	☐	6250.000	6739.695	218019.66	1.2361	P	2.2
5	☐	12500.000	13432.826	413844.65	2.4622	P	1.8
6	☐	25000.000	26979.653	825481.15	4.9439	P	1.0
7	☐	50000.000	54931.664	1707135.56	10.0646	A	3.3
8	☐	250000.00	248755.51	7533573.26	45.5721	A	1.0

$$y = 1.8319\text{E-}004 * x + 0.0014$$

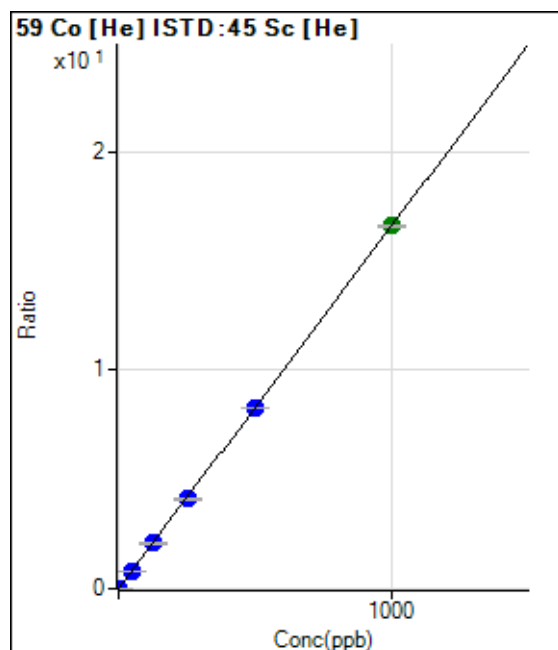
R = 0.9998

DL = 1.023

BEC = 7.5

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.56	0.0003	P	11.3
2	☐	1.000	1.005	3091.48	0.0170	P	0.7
3	☐	50.000	49.577	149010.23	0.8236	P	1.7
4	☐	125.000	125.214	366860.44	2.0797	P	1.7
5	☐	250.000	247.496	690850.40	4.1103	P	1.8
6	☐	500.000	500.416	1387476.82	8.3104	P	0.2
7	☐	1000.000	1000.412	2817818.15	16.6135	A	0.8
8	☐			3790.69	0.0229	P	24.0

$$y = 0.0166 * x + 3.1761\text{E-}004$$

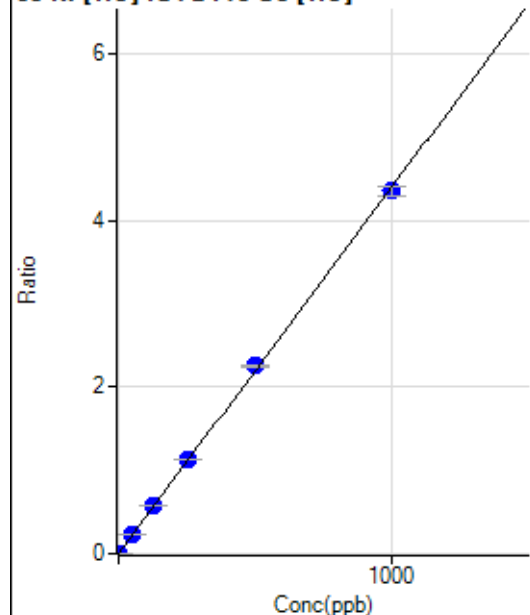
R = 1.0000

DL = 0.006477

BEC = 0.01913

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	47.78	0.0003	P	37.3
2	☐	1.000	0.956	813.37	0.0045	P	5.5
3	☐	50.000	51.156	40722.83	0.2250	P	0.3
4	☐	125.000	130.418	101123.90	0.5733	P	1.8
5	☐	250.000	257.370	190103.98	1.1310	P	1.9
6	☐	500.000	513.021	376395.16	2.2543	P	0.6
7	☐	1000.000	990.912	738493.37	4.3539	P	2.8
8	☐			2454.69	0.0148	P	9.5

$$y = 0.0044 * x + 2.7444E-004$$

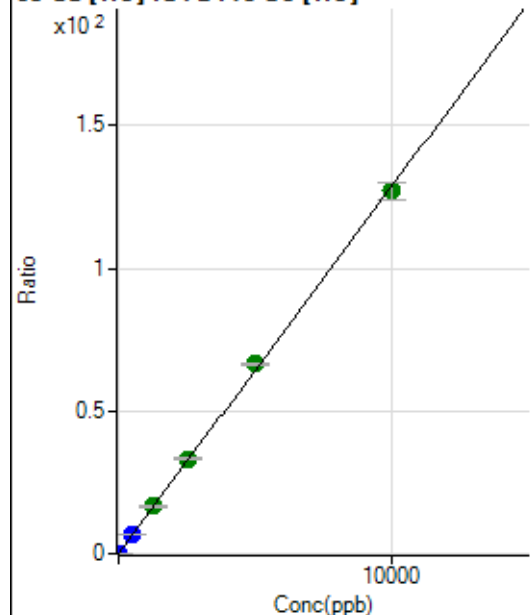
$$R = 0.9998$$

$$DL = 0.06988$$

$$BEC = 0.06247$$

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	1124.50	0.0064	P	5.0
2	☐	2.000	2.045	5945.74	0.0327	P	0.7
3	☐	500.000	504.161	1173956.86	6.4886	P	1.5
4	☐	1250.000	1300.226	2950209.92	16.7238	A	3.2
5	☐	2500.000	2583.440	5584201.72	33.2225	A	3.0
6	☐	5000.000	5177.813	11115726.64	66.5792	A	0.7
7	☐	10000.000	9883.747	21557778.85	127.0849	A	4.5
8	☐			17054.06	0.1029	P	32.7

$$y = 0.0129 * x + 0.0064$$

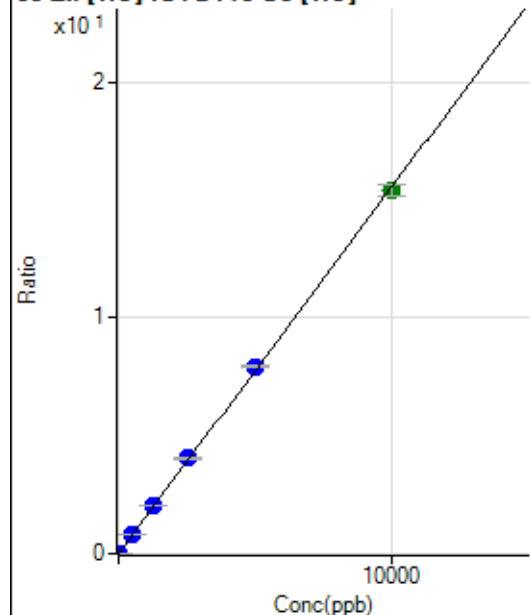
$$R = 0.9997$$

$$DL = 0.07436$$

$$BEC = 0.4992$$

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	118.89	0.0007	P	15.0
2	☐	2.000	2.568	848.92	0.0047	P	1.9
3	☐	500.000	527.190	148312.92	0.8199	P	1.9
4	☐	1250.000	1311.144	359485.41	2.0380	P	0.9
5	☐	2500.000	2611.573	682175.82	4.0587	P	1.6
6	☐	5000.000	5115.691	1327478.18	7.9497	P	1.4
7	☐	10000.000	9905.259	2610638.99	15.3920	A	3.3
8	☐			3288.27	0.0199	P	20.4

$$y = 0.0016 * x + 6.7952E-004$$

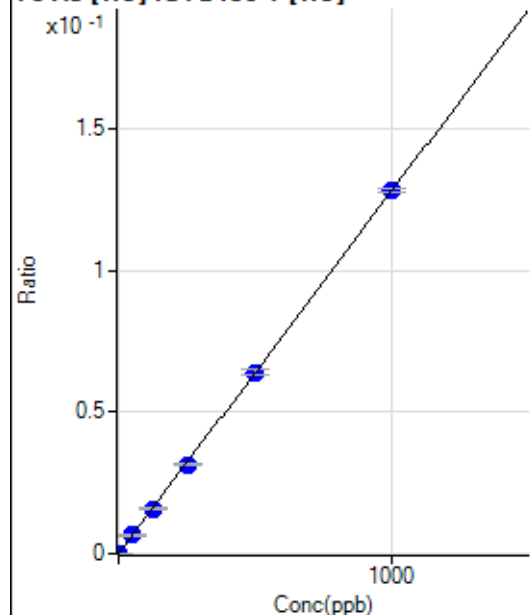
$$R = 0.9998$$

$$DL = 0.1962$$

$$BEC = 0.4373$$

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	4.00	0.0000	P	44.7
2	☐	1.000	1.160	206.02	0.0002	P	5.5
3	☐	50.000	50.496	8679.88	0.0065	P	0.9
4	☐	125.000	124.415	21015.04	0.0159	P	2.2
5	☐	250.000	246.542	40337.66	0.0316	P	1.4
6	☐	500.000	499.853	80019.85	0.0640	P	3.1
7	☐	1000.000	1000.986	159576.18	0.1281	P	1.0
8	☐			201.02	0.0002	P	18.8

$$y = 1.2801E-004 * x + 3.0663E-006$$

$$R = 1.0000$$

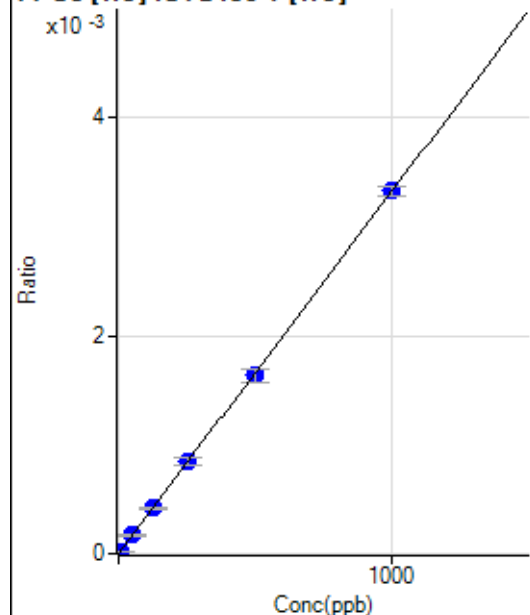
$$DL = 0.03212$$

$$BEC = 0.02395$$

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	5.418	24.44	0.0000	P	51.5
3	☐	50.000	52.364	233.34	0.0002	P	9.9
4	☐	125.000	126.198	552.24	0.0004	P	3.8
5	☐	250.000	253.276	1074.50	0.0008	P	8.5
6	☐	500.000	492.398	2042.39	0.0016	P	8.2
7	☐	1000.000	1002.712	4140.65	0.0033	P	2.3
8	☐			14.44	0.0000	P	70.6

$$y = 3.3169\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

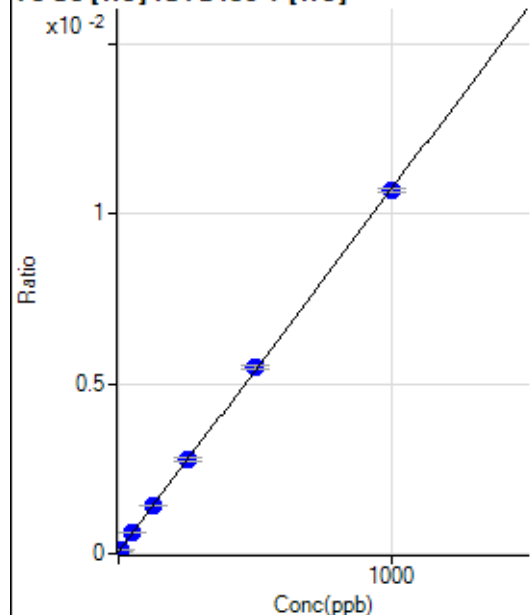
$$DL = 0$$

$$BEC = 0$$

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	77.68	0.0001	P	13.6
2	☐	5.000	4.342	143.68	0.0001	P	15.8
3	☐	50.000	52.230	828.11	0.0006	P	3.0
4	☐	125.000	128.140	1882.99	0.0014	P	1.9
5	☐	250.000	255.548	3562.48	0.0028	P	3.5
6	☐	500.000	506.882	6841.36	0.0055	P	2.1
7	☐	1000.000	994.671	13297.94	0.0107	P	1.0
8	☐			93.34	0.0001	P	3.1

$$y = 1.0675\text{E-}005 * x + 5.9355\text{E-}005$$

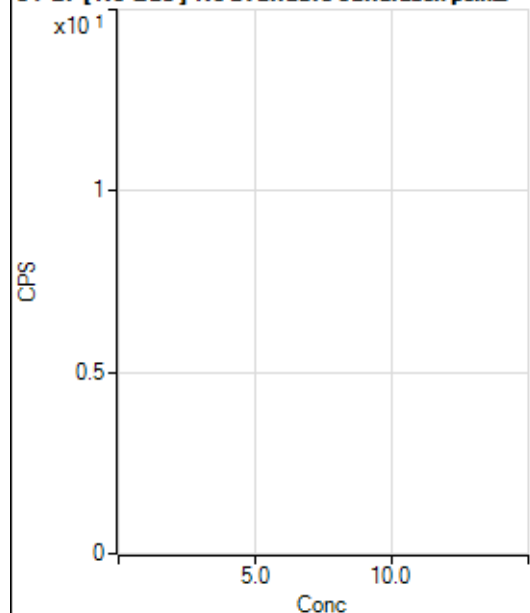
$$R = 0.9999$$

$$DL = 2.262$$

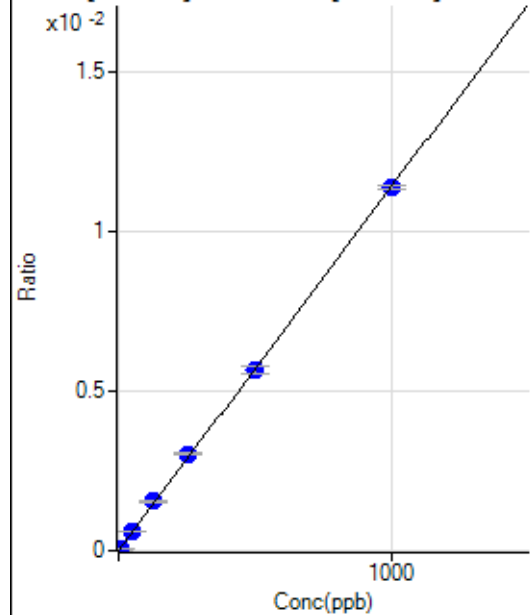
$$BEC = 5.56$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47804.70		P	3.6
2	☐			49750.63		P	3.3
3	☐			47932.31		P	1.7
4	☐			46341.30		P	2.9
5	☐			44430.44		P	4.0
6	☐			44236.33		P	2.8
7	☐			44192.24		P	3.2
8	☐			42844.23		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	26.25	0.0000	P	48.3
2	☐	5.000	5.633	772.45	0.0001	P	9.7
3	☐	50.000	53.903	7294.93	0.0006	P	1.9
4	☐	125.000	134.635	17831.20	0.0015	P	1.1
5	☐	250.000	265.330	34232.26	0.0030	P	2.1
6	☐	500.000	496.861	66613.00	0.0057	P	4.9
7	☐	1000.000	996.334	131708.13	0.0114	P	1.1
8	☐			350.81	0.0000	P	11.3

$$y = 1.1403E-005 * x + 2.2325E-006$$

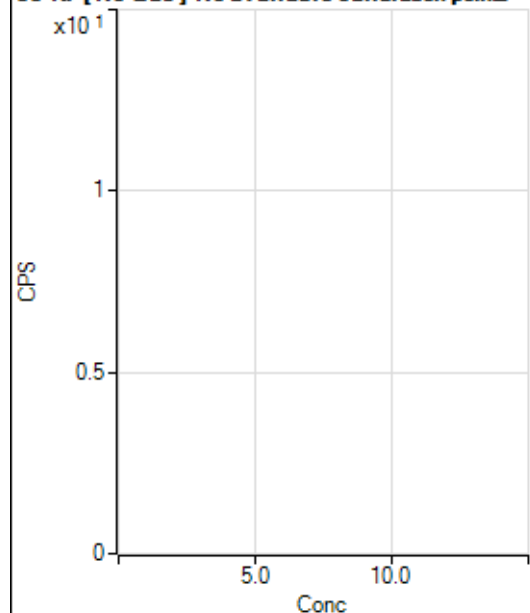
$$R = 0.9998$$

$$DL = 0.2837$$

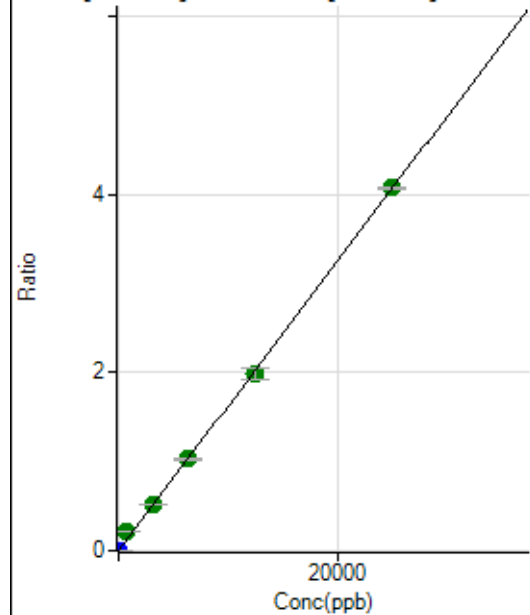
$$BEC = 0.1958$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			332.88		P	7.1
2	☐			341.63		P	4.9
3	☐			329.55		P	4.4
4	☐			346.21		P	4.1
5	☐			347.46		P	12.2
6	☐			335.79		P	4.5
7	☐			351.63		P	5.5
8	☐			358.71		P	1.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	527.80	0.0000	P	14.3
2	☐	1.000	1.152	2700.33	0.0002	P	1.5
3	☐	625.000	1281.642	2460101.18	0.2080	A	2.0
4	☐	3125.000	3204.198	6029095.32	0.5200	A	2.5
5	☐	6250.000	6325.607	11606114.15	1.0265	A	1.8
6	☐	12500.000	12203.066	23264496.87	1.9801	A	6.3
7	☐	25000.000	25103.250	47221493.76	4.0734	A	0.8
8	☐			22505.23	0.0020	P	5.1

$$y = 1.6226E-004 * x + 4.4927E-005$$

$$R = 0.9995$$

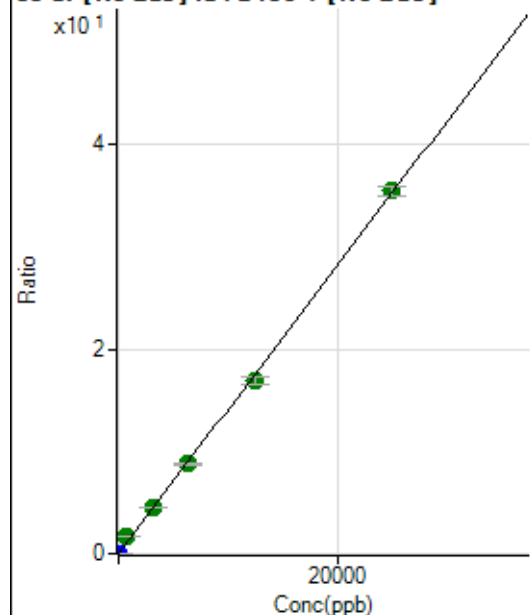
$$DL = 0.119$$

$$BEC = 0.2769$$

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	197.23	0.0000	P	14.2
2	☐	1.000	1.024	16988.50	0.0015	P	1.3
3	☐	625.000	1251.892	20853897.69	1.7634	A	1.9
4	☐	3125.000	3188.160	52085618.52	4.4908	A	0.5
5	☐	6250.000	6238.266	99348844.58	8.7870	A	2.9
6	☐	12500.000	12044.562	199402604.4	16.9656	A	4.9
7	☐	25000.000	25207.085	411483648.0	35.5059	A	2.4
8	☐			192305.28	0.0175	P	5.9

$$y = 0.0014 * x + 1.6733E-005$$

$$R = 0.9994$$

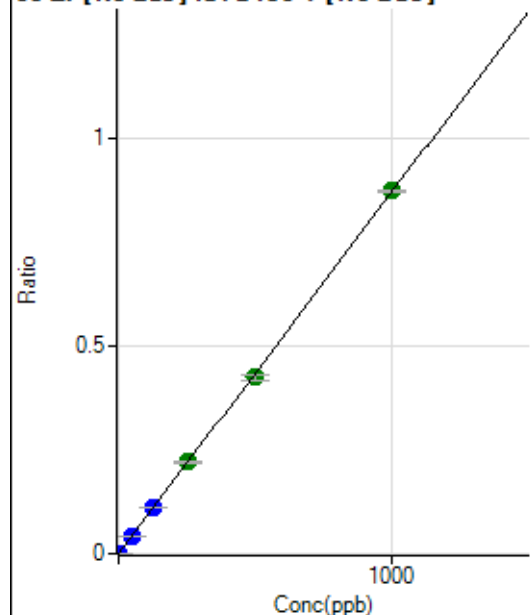
$$DL = 0.005043$$

$$BEC = 0.01188$$

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	477.80	0.0000	P	18.0
2	☐	1.000	0.993	10518.16	0.0009	P	0.9
3	☐	50.000	49.939	513373.39	0.0434	P	1.7
4	☐	125.000	129.332	1303062.07	0.1124	P	1.1
5	☐	250.000	253.939	2493871.54	0.2206	A	2.4
6	☐	500.000	487.854	4981128.37	0.4237	A	4.0
7	☐	1000.000	1004.550	10113156.30	0.8724	A	0.4
8	☐			4720.41	0.0004	P	1.2

$$y = 8.6846E-004 * x + 4.0604E-005$$

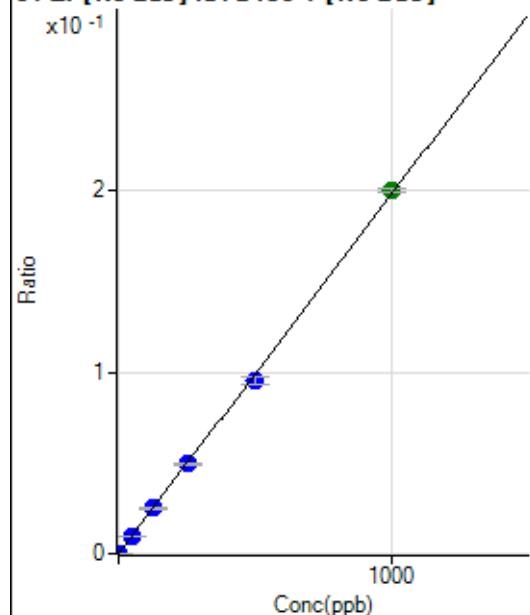
$$R = 0.9999$$

$$DL = 0.02522$$

$$BEC = 0.04675$$

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	75.00	0.0000	P	9.8
2	☐	1.000	0.980	2328.04	0.0002	P	11.7
3	☐	50.000	48.955	114660.86	0.0097	P	3.2
4	☐	125.000	126.331	290076.61	0.0250	P	1.5
5	☐	250.000	249.518	558495.84	0.0494	P	2.3
6	☐	500.000	481.623	1120734.65	0.0953	P	4.2
7	☐	1000.000	1009.195	2315680.56	0.1998	A	1.0
8	☐			1044.52	0.0001	P	15.2

$$y = 1.9794\text{E-}004 * x + 6.3686\text{E-}006$$

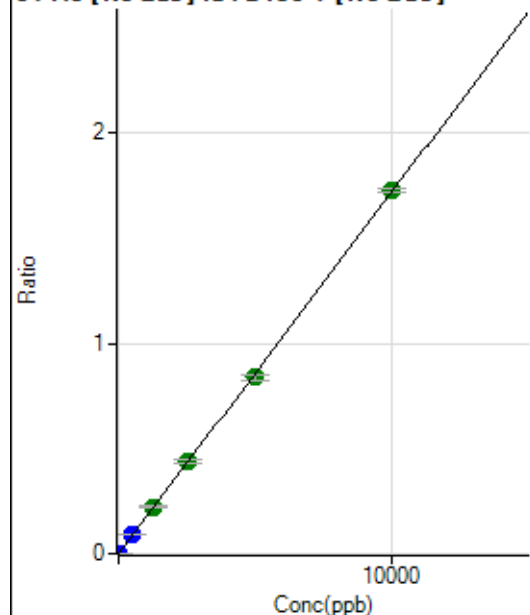
$$R = 0.9997$$

$$DL = 0.009415$$

$$BEC = 0.03217$$

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	152.78	0.0000	P	32.4
2	☐	5.000	6.093	12325.29	0.0011	P	3.7
3	☐	500.000	515.236	1046455.24	0.0885	P	2.2
4	☐	1250.000	1291.425	2571157.44	0.2218	A	4.1
5	☐	2500.000	2559.011	4967728.93	0.4394	A	3.8
6	☐	5000.000	4873.997	9838718.27	0.8370	A	4.2
7	☐	10000.000	10042.308	19988927.70	1.7245	A	1.2
8	☐			11254.97	0.0010	P	6.0

$$y = 1.7172\text{E-}004 * x + 1.3032\text{E-}005$$

$$R = 0.9999$$

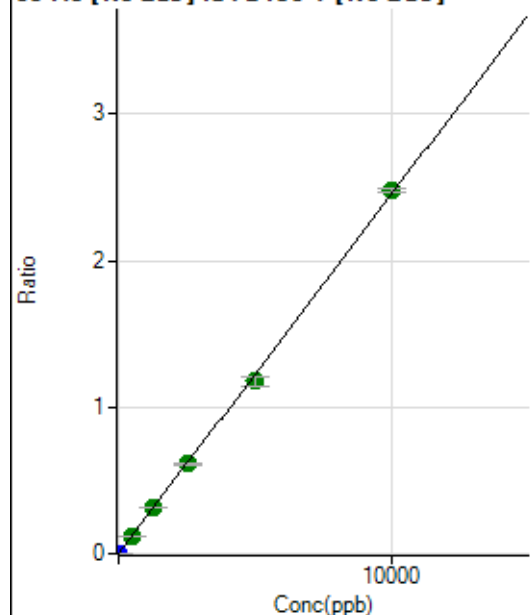
$$DL = 0.07369$$

$$BEC = 0.07589$$

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	19.44	0.0000	P	63.8
2	☐	5.000	5.101	14566.37	0.0013	P	6.1
3	☐	500.000	499.442	1448616.79	0.1225	A	0.3
4	☐	1250.000	1285.208	3654244.88	0.3152	A	3.1
5	☐	2500.000	2512.782	6967036.35	0.6162	A	2.2
6	☐	5000.000	4795.361	13820986.59	1.1760	A	4.9
7	☐	10000.000	10094.751	28695231.20	2.4755	A	0.9
8	☐			14875.23	0.0014	P	4.5

$$y = 2.4523\text{E-}004 * x + 1.6405\text{E-}006$$

$$R = 0.9997$$

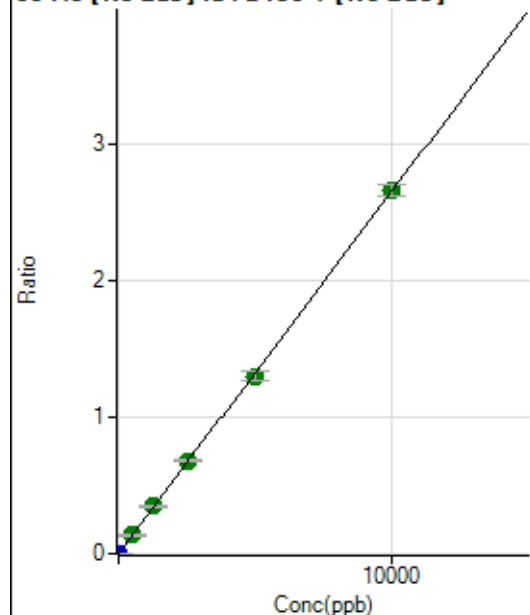
$$DL = 0.0128$$

$$BEC = 0.00669$$

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	147.23	0.0000	P	33.1
2	☐	5.000	5.173	16143.13	0.0014	P	1.4
3	☐	500.000	508.122	1596468.48	0.1350	A	2.4
4	☐	1250.000	1305.373	4021279.78	0.3468	A	2.9
5	☐	2500.000	2555.169	7675332.38	0.6788	A	2.0
6	☐	5000.000	4910.301	15333708.33	1.3045	A	4.5
7	☐	10000.000	10023.729	30859043.74	2.6630	A	3.1
8	☐			26977.14	0.0025	P	4.8

$$y = 2.6567\text{E-}004 * x + 1.2543\text{E-}005$$

$$R = 0.9999$$

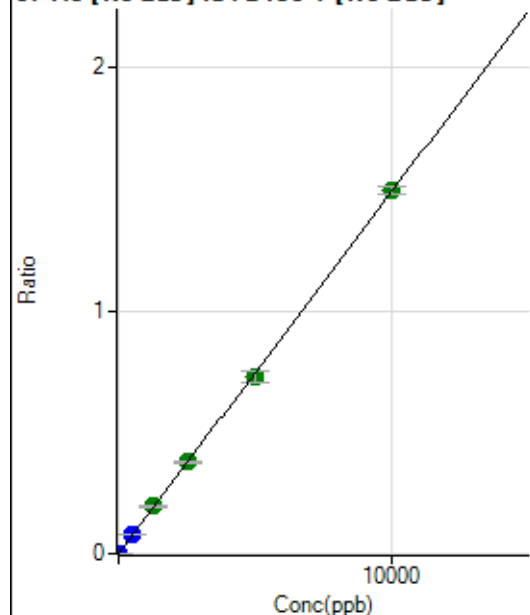
$$DL = 0.04693$$

$$BEC = 0.04721$$

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	22.22	0.0000	P	23.1
2	☐	5.000	5.275	9156.04	0.0008	P	6.2
3	☐	500.000	510.583	899304.46	0.0760	P	0.8
4	☐	1250.000	1314.428	2269396.01	0.1957	A	3.9
5	☐	2500.000	2534.372	4267062.42	0.3774	A	2.8
6	☐	5000.000	4901.700	8575419.72	0.7300	A	6.7
7	☐	10000.000	10031.974	17314316.53	1.4940	A	2.0
8	☐			9581.42	0.0009	P	7.3

$$y = 1.4892E-004 * x + 1.8936E-006$$

$$R = 0.9999$$

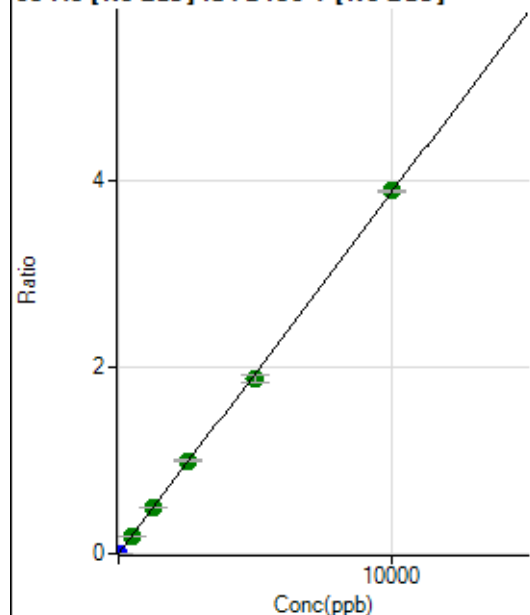
$$DL = 0.008804$$

$$BEC = 0.01272$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61.11	0.0000	P	40.5
2	☐	5.000	5.157	23334.07	0.0020	P	3.8
3	☐	500.000	503.945	2311215.96	0.1954	A	0.4
4	☐	1250.000	1284.553	5775167.44	0.4981	A	3.1
5	☐	2500.000	2574.417	11287949.30	0.9982	A	1.5
6	☐	5000.000	4853.024	22115502.92	1.8818	A	5.1
7	☐	10000.000	10050.367	45176515.25	3.8971	A	0.7
8	☐			23766.15	0.0022	P	6.5

$$y = 3.8775E-004 * x + 5.2175E-006$$

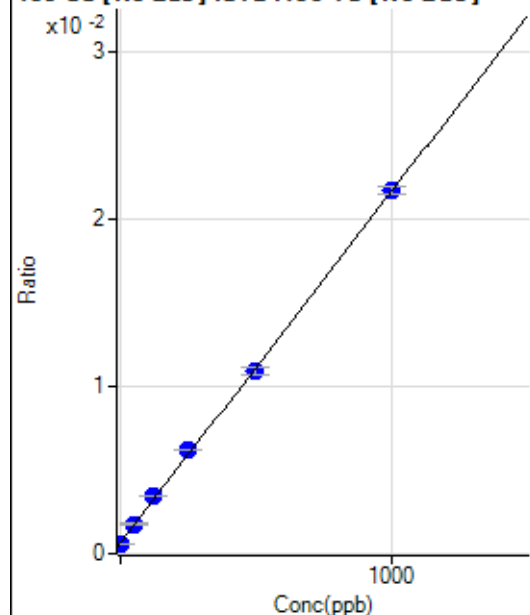
$$R = 0.9998$$

$$DL = 0.01635$$

$$BEC = 0.01346$$

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	4411.94	0.0006	P	2.8
2	☐	1.000	-1.338	4356.38	0.0006	P	1.1
3	☐	50.000	55.581	13145.61	0.0018	P	3.2
4	☐	125.000	134.001	25605.05	0.0034	P	0.6
5	☐	250.000	266.330	46676.98	0.0062	P	1.5
6	☐	500.000	488.003	86083.48	0.0109	P	3.8
7	☐	1000.000	1000.514	168007.31	0.0217	P	2.2
8	☐			3783.96	0.0005	P	3.8

$$y = 2.1044\text{E-}005 * x + 5.9876\text{E-}004$$

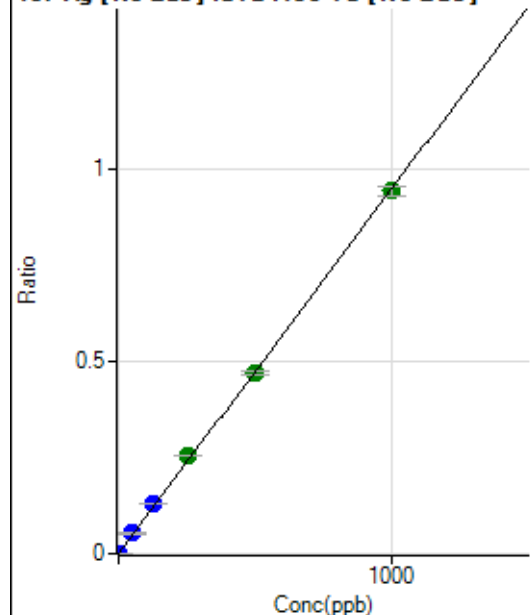
$$R = 0.9997$$

$$DL = 2.353$$

$$BEC = 28.45$$

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	227.79	0.0000	P	20.2
2	☐	1.000	1.090	8133.17	0.0011	P	4.1
3	☐	50.000	55.512	391827.82	0.0527	P	1.4
4	☐	125.000	138.106	981989.69	0.1311	P	1.4
5	☐	250.000	270.324	1930900.02	0.2566	A	0.9
6	☐	500.000	495.962	3729157.90	0.4707	A	3.1
7	☐	1000.000	995.024	7326578.11	0.9444	A	2.6
8	☐			9570.31	0.0013	P	2.1

$$y = 9.4908\text{E-}004 * x + 3.0925\text{E-}005$$

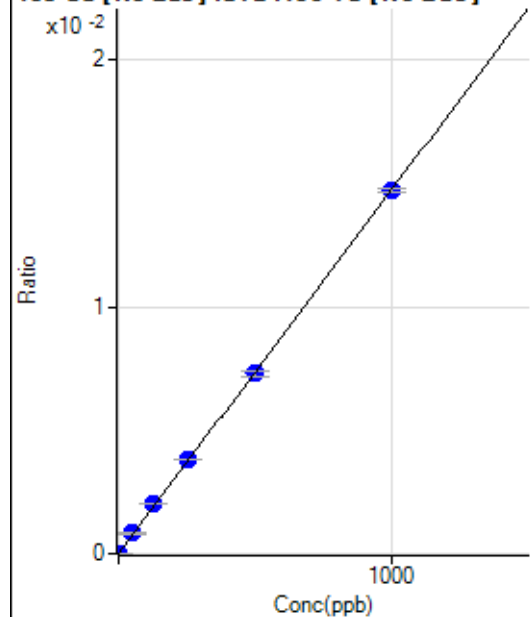
$$R = 0.9997$$

$$DL = 0.01978$$

$$BEC = 0.03258$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	34.8
2	☐	1.000	1.042	145.84	0.0000	P	8.1
3	☐	50.000	55.983	6151.45	0.0008	P	3.9
4	☐	125.000	137.110	15140.39	0.0020	P	2.3
5	☐	250.000	260.567	28883.25	0.0038	P	0.5
6	☐	500.000	495.782	57823.65	0.0073	P	3.1
7	☐	1000.000	997.654	113966.34	0.0147	P	1.0
8	☐			97.22	0.0000	P	47.3

$$y = 1.4715\text{E-}005 * x + 3.7721\text{E-}006$$

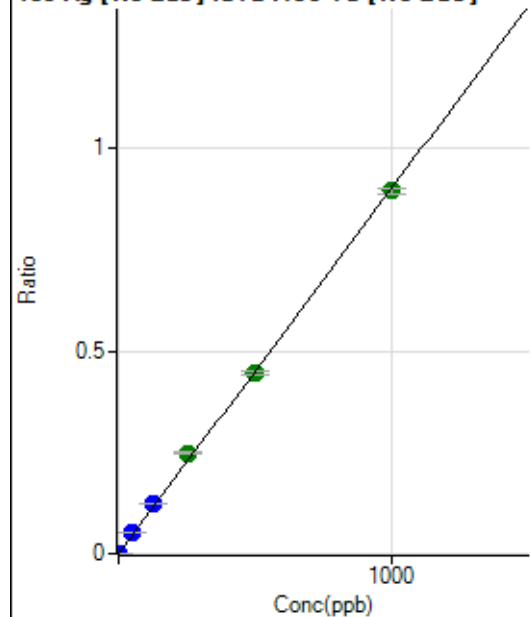
$$R = 0.9999$$

$$DL = 0.2675$$

$$BEC = 0.2563$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	213.89	0.0000	P	32.8
2	☐	1.000	1.124	7952.53	0.0010	P	2.9
3	☐	50.000	56.505	378674.91	0.0509	P	0.6
4	☐	125.000	138.504	934952.38	0.1248	P	1.2
5	☐	250.000	274.571	1861734.44	0.2474	A	1.4
6	☐	500.000	496.406	3544214.45	0.4473	A	2.3
7	☐	1000.000	993.641	6950093.82	0.8953	A	1.7
8	☐			8836.43	0.0012	P	1.7

$$y = 9.0105\text{E-}004 * x + 2.9021\text{E-}005$$

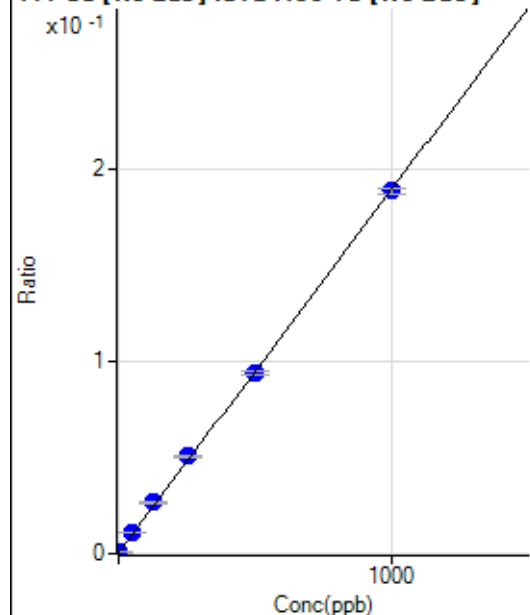
$$R = 0.9996$$

$$DL = 0.03173$$

$$BEC = 0.03221$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3077.25	0.0004	P	3.1
2	☐	1.000	0.944	4547.50	0.0006	P	2.3
3	☐	50.000	56.305	81976.18	0.0110	P	1.9
4	☐	125.000	138.168	198162.30	0.0265	P	1.4
5	☐	250.000	265.367	379346.30	0.0504	P	3.5
6	☐	500.000	495.087	742529.98	0.0937	P	2.8
7	☐	1000.000	996.654	1460875.38	0.1883	P	1.8
8	☐			3323.81	0.0005	P	3.3

$$y = 1.8847E-004 * x + 4.1763E-004$$

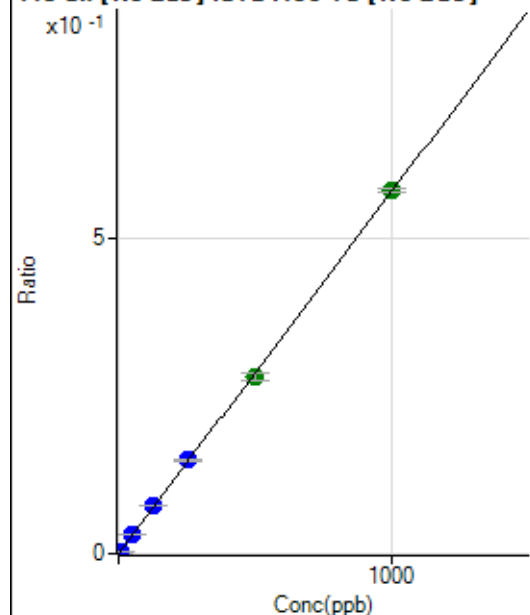
$$R = 0.9998$$

$$DL = 0.2065$$

$$BEC = 2.216$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	555.58	0.0001	P	3.7
2	☐	5.000	5.123	22997.65	0.0030	P	1.1
3	☐	50.000	52.511	224368.28	0.0302	P	1.6
4	☐	125.000	131.012	563175.74	0.0752	P	1.2
5	☐	250.000	258.034	1113588.00	0.1480	P	2.7
6	☐	500.000	488.711	2220018.67	0.2803	A	3.8
7	☐	1000.000	1002.758	4463198.71	0.5750	A	1.2
8	☐			6821.35	0.0009	P	3.0

$$y = 5.7337E-004 * x + 7.5410E-005$$

$$R = 0.9999$$

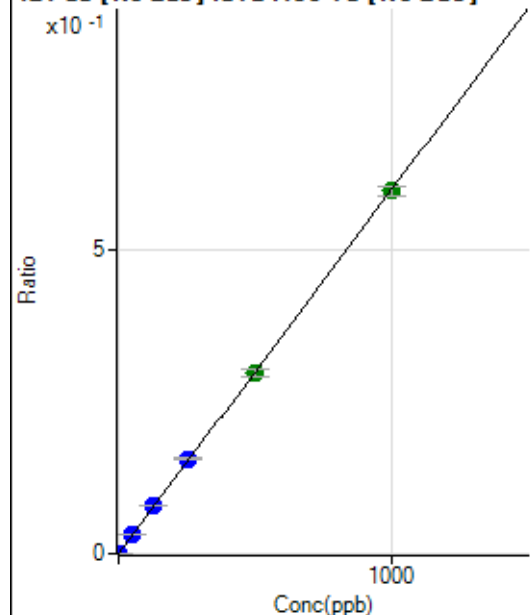
$$DL = 0.01472$$

$$BEC = 0.1315$$

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	36.11	0.0000	P	71.0
2	☐	2.000	2.102	9673.17	0.0013	P	4.0
3	☐	50.000	53.673	239573.19	0.0322	P	1.4
4	☐	125.000	133.717	601373.28	0.0803	P	0.7
5	☐	250.000	261.014	1179181.70	0.1567	P	1.6
6	☐	500.000	497.321	2365152.90	0.2986	A	3.8
7	☐	1000.000	997.312	4645778.49	0.5988	A	2.5
8	☐			15080.92	0.0021	P	1.9

$$y = 6.0043\text{E-}004 * x + 4.9183\text{E-}006$$

$$R = 0.9999$$

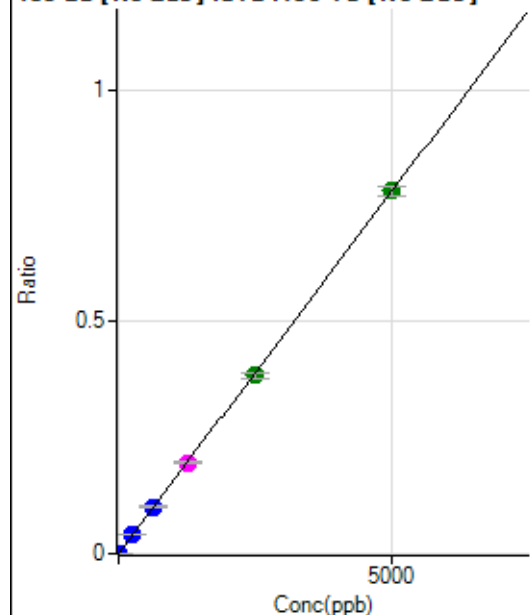
$$DL = 0.01744$$

$$BEC = 0.008191$$

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	11.11	0.0000	P	114.
2	☐	10.000	9.585	11438.54	0.0015	P	3.6
3	☐	250.000	256.452	297748.05	0.0401	P	0.1
4	☐	625.000	650.634	761060.73	0.1016	P	2.1
5	☐	1250.000	1261.056	1481956.53	0.1970	M	1.6
6	☐	2500.000	2463.563	3048128.76	0.3848	A	2.8
7	☐	5000.000	5011.928	6072664.11	0.7828	A	2.9
8	☐			5176.16	0.0007	P	2.9

$$y = 1.5618\text{E-}004 * x + 1.5040\text{E-}006$$

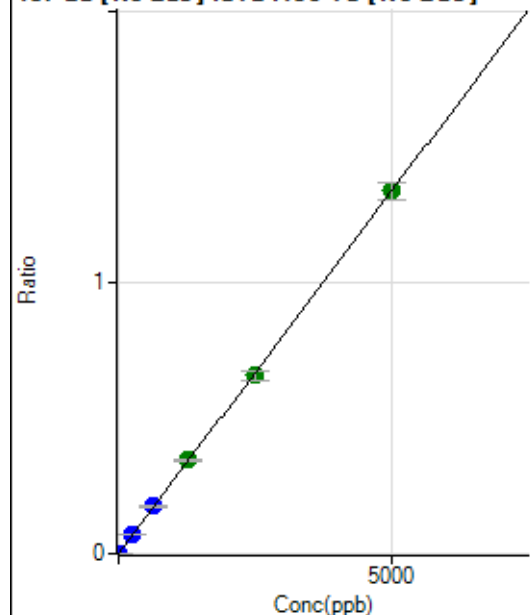
$$R = 0.9999$$

$$DL = 0.03294$$

$$BEC = 0.00963$$

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	19.44	0.0000	P	65.3
2	☐	10.000	9.935	20265.83	0.0027	P	1.2
3	☐	250.000	259.915	515805.28	0.0694	P	0.3
4	☐	625.000	650.823	1301199.20	0.1737	P	2.7
5	☐	1250.000	1287.928	2586476.99	0.3438	A	2.5
6	☐	2500.000	2461.496	5204570.60	0.6571	A	5.8
7	☐	5000.000	5006.047	10364381.22	1.3364	A	4.4
8	☐			8458.44	0.0012	P	3.3

$$y = 2.6695E-004 * x + 2.6398E-006$$

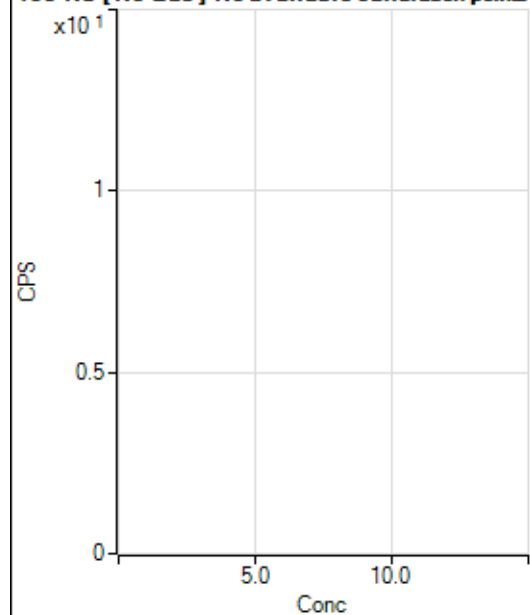
$$R = 0.9999$$

$$DL = 0.01936$$

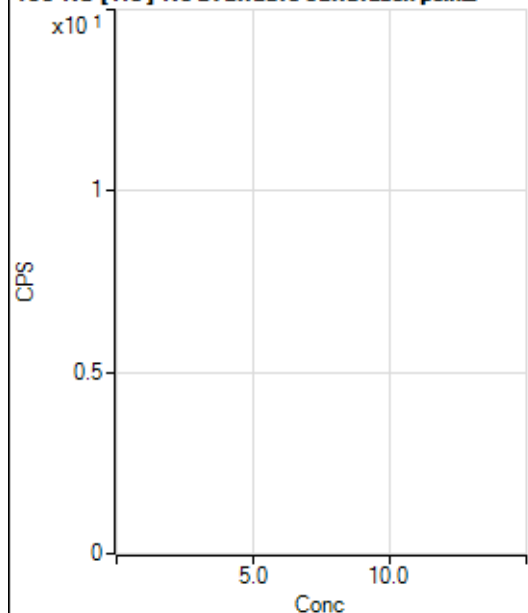
$$BEC = 0.009889$$

Weight: <None>

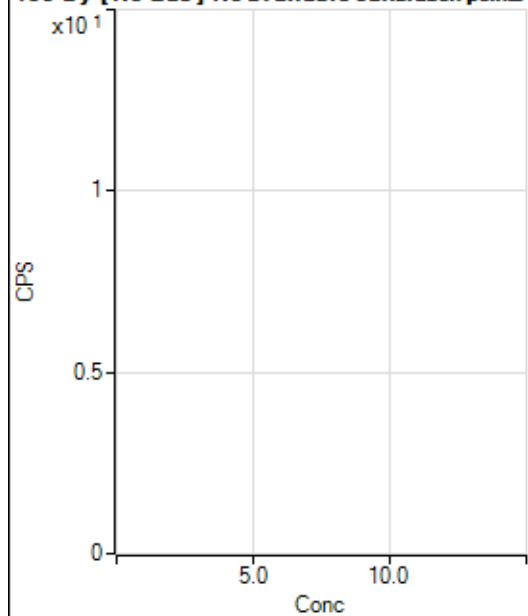
Min Conc: 0

150 Nd [No Gas] No available calibration points

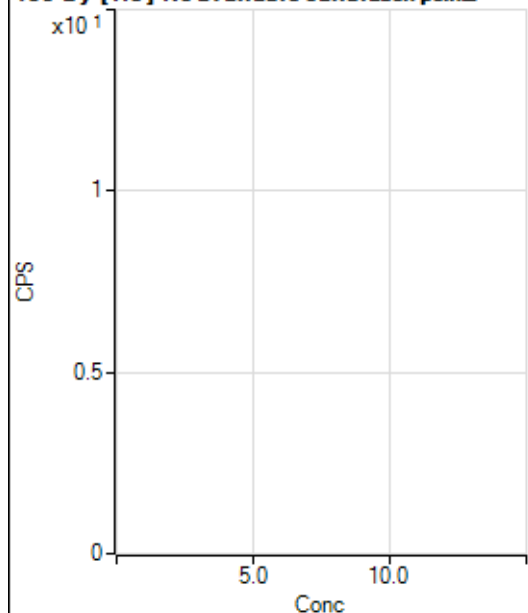
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	100.
2	☐			11.11		P	34.6
3	☐			35.56		P	39.0
4	☐			64.45		P	48.9
5	☐			157.78		P	30.6
6	☐			266.67		P	8.7
7	☐			497.80		P	4.3
8	☐			46.67		P	37.8

150 Nd [He] No available calibration points

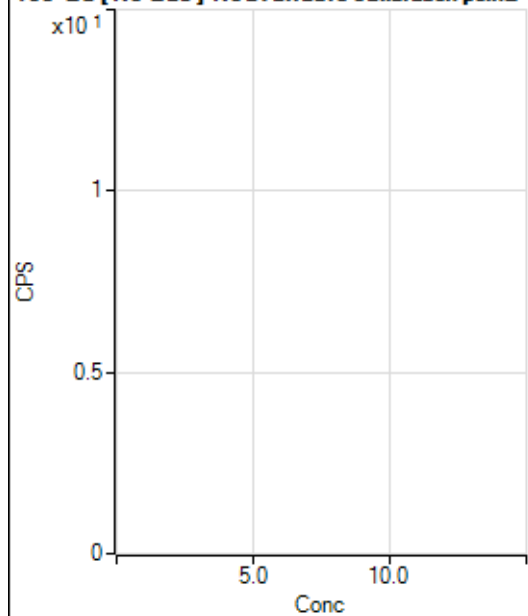
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			2.22		P	86.6
3	☐			1.11		P	173.
4	☐			7.78		P	24.7
5	☐			8.89		P	78.1
6	☐			18.89		P	20.4
7	☐			28.89		P	43.7
8	☐			7.78		P	65.5

156 Dy [No Gas] No available calibration points

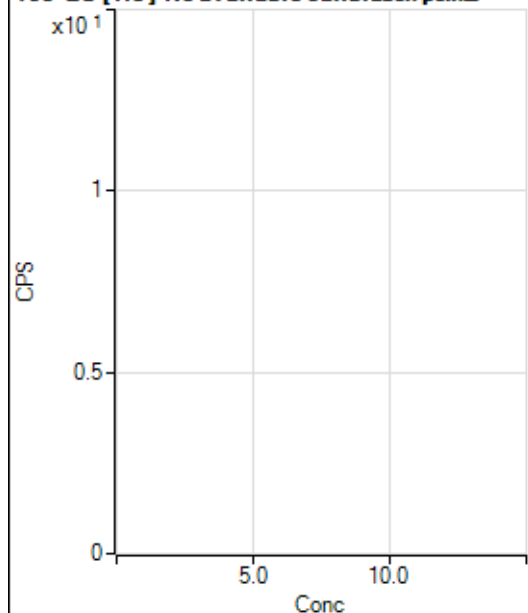
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.
2	☐			13.89		P	124.
3	☐			16.67		P	132.
4	☐			52.78		P	24.1
5	☐			83.33		P	36.1
6	☐			202.79		P	17.1
7	☐			250.01		P	20.8
8	☐			972.28		P	2.5

156 Dy [He] No available calibration points

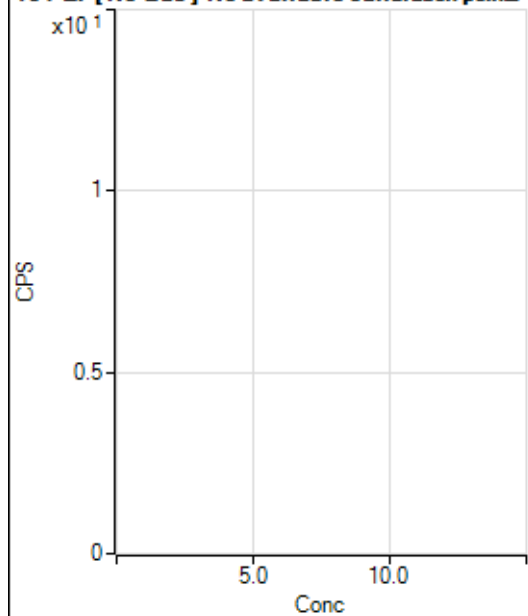
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			5.56		P	34.7
3	☐			8.89		P	114.
4	☐			17.78		P	28.6
5	☐			31.11		P	32.7
6	☐			76.67		P	11.5
7	☐			142.22		P	4.9
8	☐			418.90		P	5.2

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

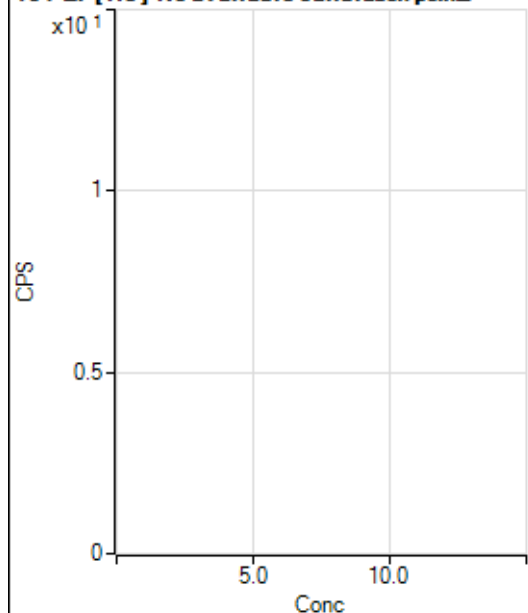
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			69.45		P	59.2
2	☐			86.11		P	14.8
3	☐			61.11		P	20.8
4	☐			133.34		P	28.6
5	☐			122.22		P	3.9
6	☐			197.23		P	8.8
7	☐			261.12		P	9.2
8	☐			1022.29		P	8.2

160 Gd [He] No available calibration points

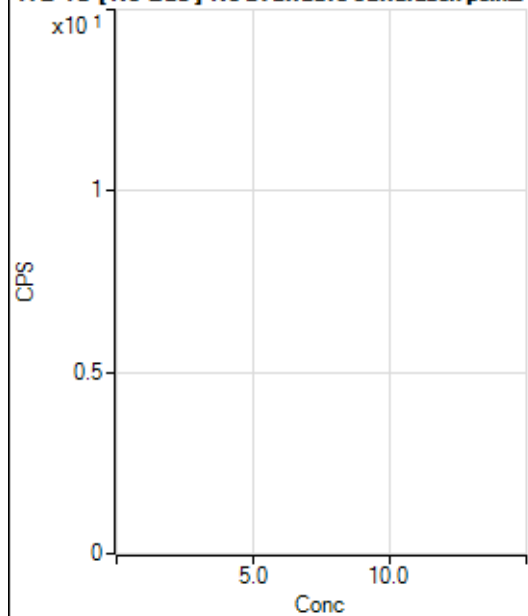
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			92.22		P	7.5
2	☐			81.11		P	20.7
3	☐			101.11		P	19.3
4	☐			87.78		P	17.9
5	☐			140.00		P	25.8
6	☐			164.45		P	5.1
7	☐			208.89		P	9.8
8	☐			567.79		P	10.9

164 Er [No Gas] No available calibration points

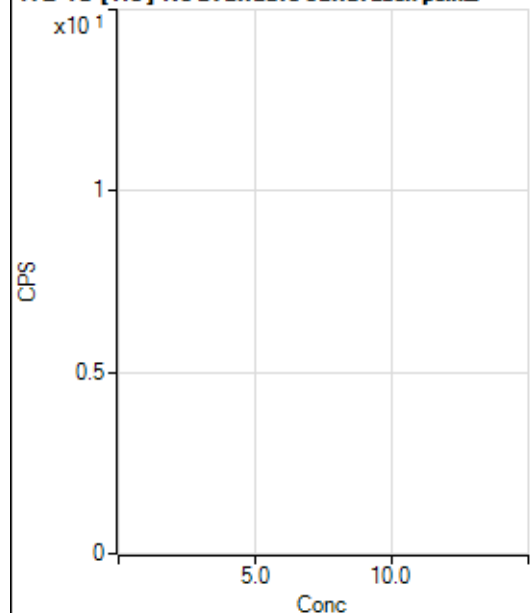
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	20.8
2	☐			69.45		P	25.0
3	☐			50.00		P	16.7
4	☐			33.34		P	43.3
5	☐			41.67		P	52.9
6	☐			77.78		P	22.3
7	☐			66.67		P	12.5
8	☐			72.22		P	6.7

164 Er [He] No available calibration points

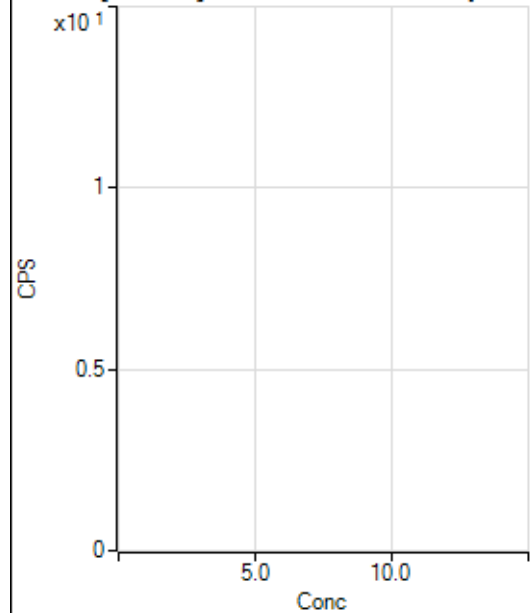
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	21.7
2	☐			24.45		P	28.4
3	☐			24.44		P	47.9
4	☐			13.33		P	25.0
5	☐			24.44		P	103.
6	☐			24.45		P	28.4
7	☐			30.00		P	22.2
8	☐			38.89		P	26.2

172 Yb [No Gas] No available calibration points

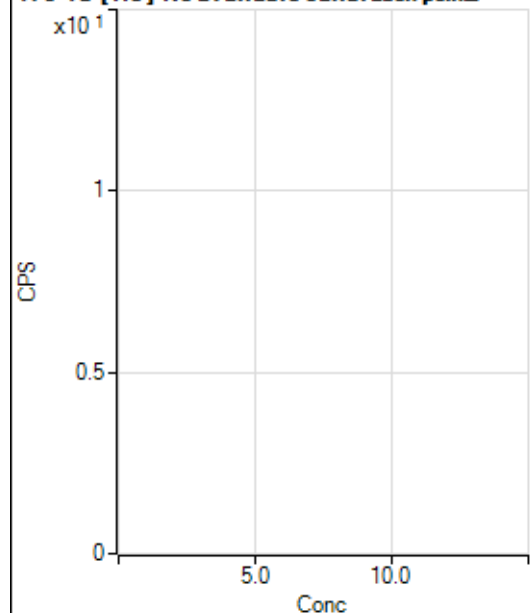
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.67		P	34.7
2	☐			41.67		P	40.0
3	☐			38.89		P	44.6
4	☐			61.11		P	31.5
5	☐			50.00		P	33.3
6	☐			66.67		P	43.3
7	☐			122.22		P	39.4
8	☐			419.46		P	10.2

172 Yb [He] No available calibration points

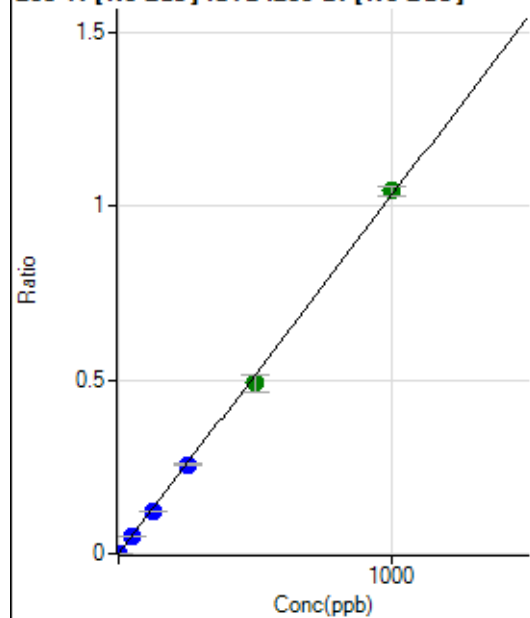
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24.08		P	70.5
2	☐			14.82		P	57.3
3	☐			38.89		P	14.3
4	☐			40.74		P	28.4
5	☐			22.22		P	25.0
6	☐			51.86		P	12.4
7	☐			83.34		P	41.6
8	☐			229.64		P	12.2

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1194.53		P	6.3
2	☐			1369.56		P	4.9
3	☐			2239.15		P	4.7
4	☐			3253.27		P	7.6
5	☐			5801.45		P	3.8
6	☐			10487.79		P	1.6
7	☐			20210.51		P	2.2
8	☐			1458.45		P	5.5

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6785.20		P	6.5
2	☐			6948.25		P	4.2
3	☐			7122.43		P	3.6
4	☐			7344.77		P	3.9
5	☐			8489.93		P	4.3
6	☐			11051.09		P	1.0
7	☐			14686.24		P	0.7
8	☐			6555.45		P	4.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	50.00	0.0000	P	74.3
2	☐	1.000	0.903	4092.45	0.0009	P	2.0
3	☐	50.000	47.921	208203.86	0.0494	P	1.7
4	☐	125.000	118.919	524926.91	0.1226	P	2.5
5	☐	250.000	249.241	1082565.43	0.2570	P	1.8
6	☐	500.000	476.135	2210623.57	0.4910	A	9.5
7	☐	1000.000	1012.987	4443259.91	1.0446	A	2.5
8	☐			1827.97	0.0005	P	15.7

$$y = 0.0010 * x + 1.2056E-005$$

$$R = 0.9996$$

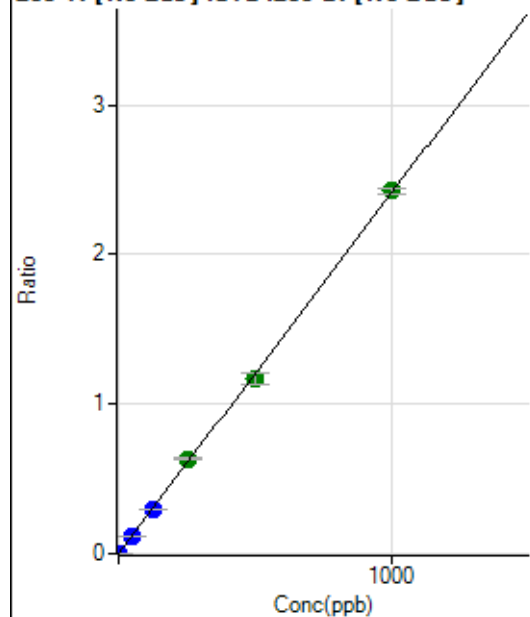
$$DL = 0.02604$$

$$BEC = 0.01169$$

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	147.23	0.0000	P	16.9
2	☐	1.000	0.928	9865.18	0.0023	P	1.1
3	☐	50.000	49.303	501134.25	0.1190	P	2.9
4	☐	125.000	123.882	1279537.82	0.2989	P	1.3
5	☐	250.000	261.735	2659248.45	0.6315	A	1.8
6	☐	500.000	483.787	5261472.91	1.1671	A	6.7
7	☐	1000.000	1005.347	10318038.94	2.4254	A	1.7
8	☐			4612.08	0.0013	P	5.0

$$y = 0.0024 * x + 3.5274E-005$$

$$R = 0.9997$$

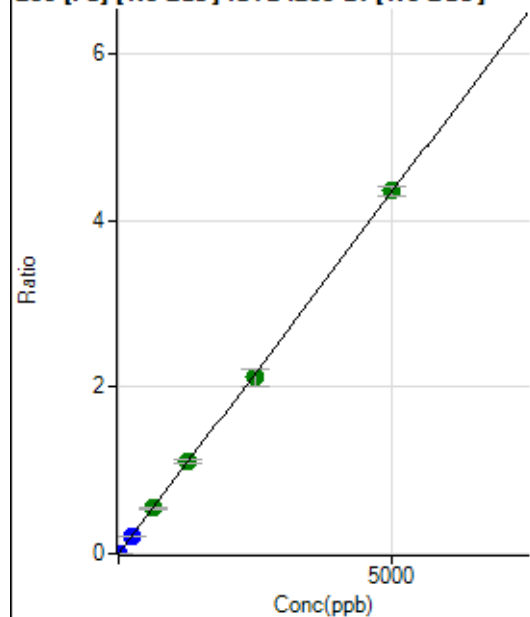
$$DL = 0.007424$$

$$BEC = 0.01462$$

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	300.01	0.0001	P	16.8
2	☐	1.000	0.912	3737.64	0.0009	P	2.9
3	☐	250.000	241.246	880488.79	0.2090	P	0.6
4	☐	625.000	627.135	2326084.69	0.5433	A	0.8
5	☐	1250.000	1283.989	4682611.22	1.1123	A	3.4
6	☐	2500.000	2437.844	9507978.80	2.1117	A	9.4
7	☐	5000.000	5022.751	18509295.32	4.3508	A	2.7
8	☐			7643.19	0.0021	P	2.8

$$y = 8.6620E-004 * x + 7.1567E-005$$

$$R = 0.9999$$

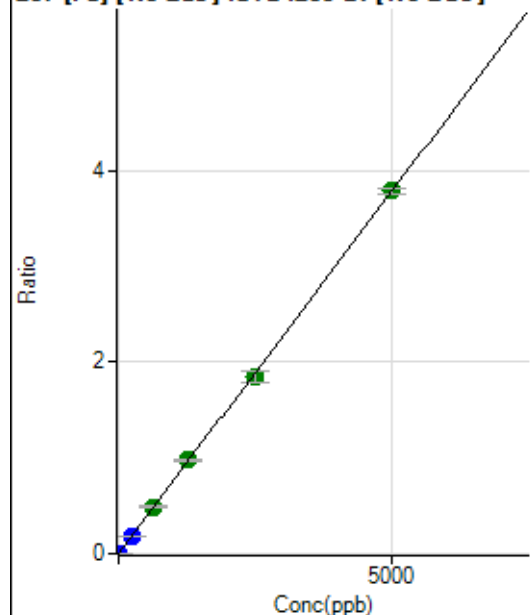
$$DL = 0.04155$$

$$BEC = 0.08262$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	262.97	0.0001	P	8.9
2	☐	1.000	0.889	3189.33	0.0007	P	5.3
3	☐	250.000	245.869	783519.06	0.1860	P	0.7
4	☐	625.000	649.059	2101861.66	0.4909	A	2.6
5	☐	1250.000	1294.234	4121818.09	0.9789	A	2.7
6	☐	2500.000	2449.684	8353816.39	1.8528	A	6.3
7	☐	5000.000	5011.299	16125425.94	3.7901	A	1.5
8	☐			6353.58	0.0017	P	6.8

$$y = 7.5631E-004 * x + 6.2699E-005$$

$$R = 0.9999$$

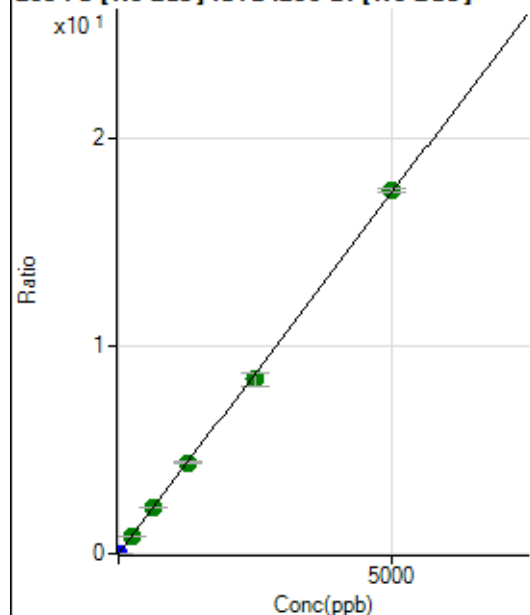
$$DL = 0.02216$$

$$BEC = 0.0829$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1231.53	0.0003	P	3.8
2	☐	1.000	0.888	14651.65	0.0034	P	1.4
3	☐	250.000	247.610	3620804.61	0.8596	A	1.3
4	☐	625.000	633.843	9417535.53	2.2000	A	1.7
5	☐	1250.000	1265.529	18492466.68	4.3922	A	3.4
6	☐	2500.000	2424.421	37914010.45	8.4140	A	7.6
7	☐	5000.000	5032.922	74316278.63	17.4665	A	1.0
8	☐			29730.98	0.0081	P	4.5

$$y = 0.0035 * x + 2.9385E-004$$

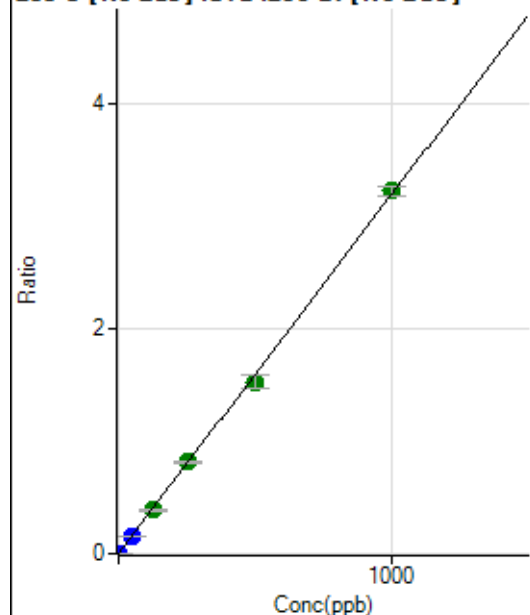
$$R = 0.9998$$

$$DL = 0.009672$$

$$BEC = 0.08467$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.89	0.0000	P	91.7
2	☐	1.000	0.891	12387.05	0.0029	P	1.3
3	☐	50.000	46.807	630466.06	0.1497	P	1.7
4	☐	125.000	121.339	1660869.96	0.3880	A	2.2
5	☐	250.000	255.075	3436453.64	0.8157	A	1.9
6	☐	500.000	477.938	6886395.21	1.5284	A	7.8
7	☐	1000.000	1010.379	13743295.45	3.2310	A	2.5
8	☐			3689.60	0.0010	P	5.7

$$y = 0.0032 * x + 3.3787E-006$$

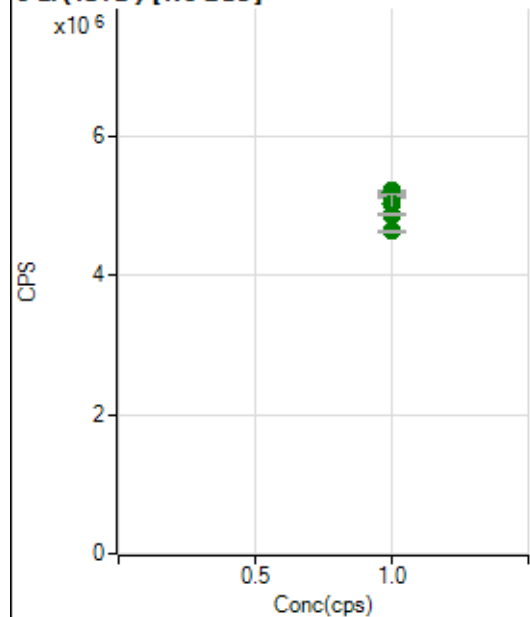
$$R = 0.9996$$

$$DL = 0.002905$$

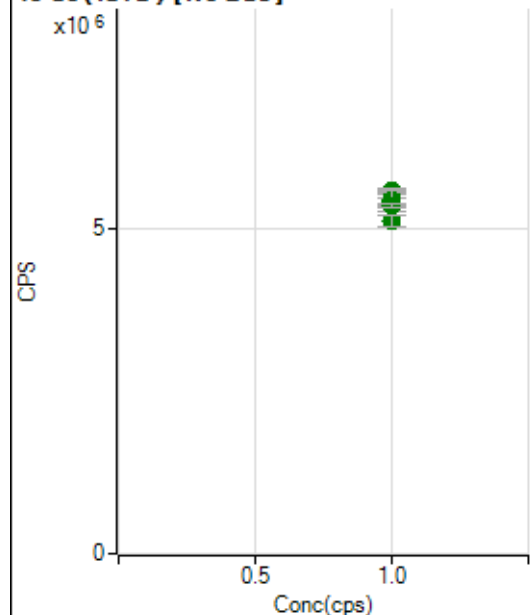
$$BEC = 0.001057$$

Weight: <None>

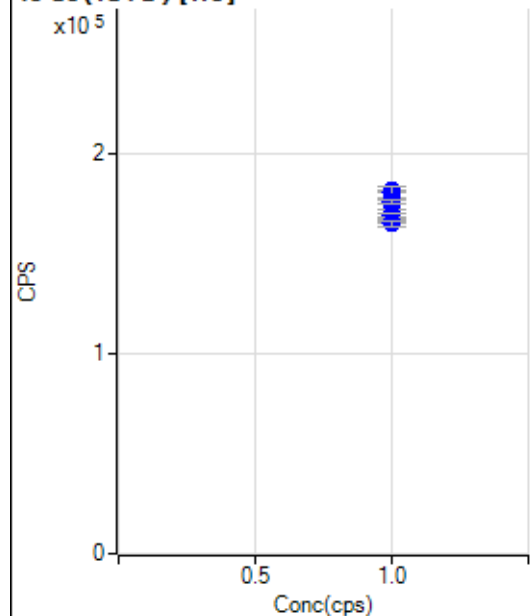
Min Conc: 0

6 Li (ISTD) [No Gas]

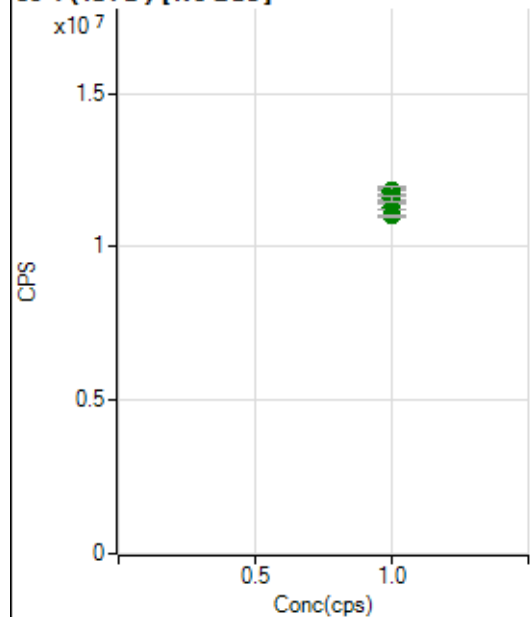
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5206342.66		A	0.4
2	☐	1.000		5166239.85		A	2.2
3	☐	1.000		5183194.35		A	1.5
4	☐	1.000		5163047.23		A	1.6
5	☐	1.000		5152926.78		A	0.3
6	☐	1.000		5017239.73		A	5.8
7	☐	1.000		4861896.02		A	0.8
8	☐	1.000		4622987.29		A	0.7

45 Sc (ISTD) [No Gas]

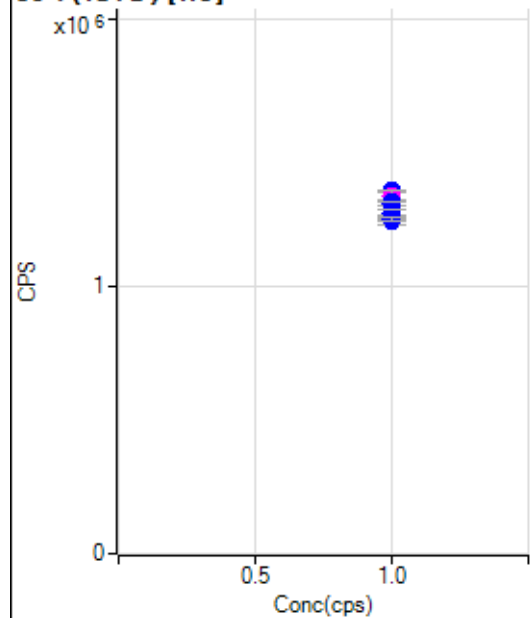
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5566409.71		A	1.0
2	☐	1.000		5569469.08		A	1.1
3	☐	1.000		5587910.75		A	1.7
4	☐	1.000		5467497.59		A	3.6
5	☐	1.000		5428743.08		A	1.9
6	☐	1.000		5435821.31		A	5.9
7	☐	1.000		5354733.46		A	1.3
8	☐	1.000		5119797.00		A	3.4

45 Sc (ISTD) [He]

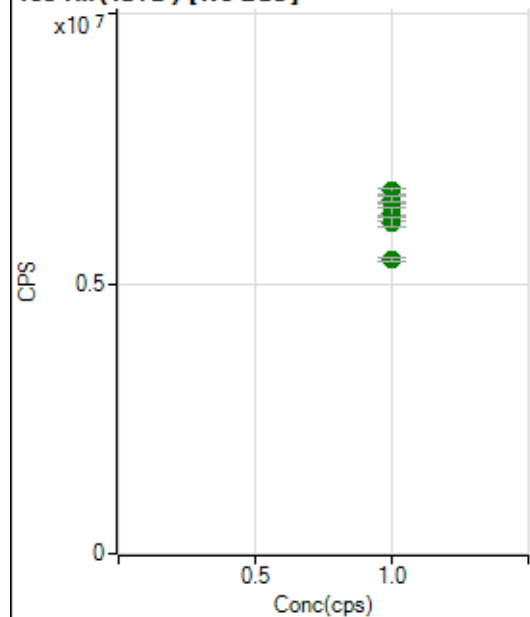
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		175210.28		P	2.6
2	☐	1.000		181799.79		P	0.7
3	☐	1.000		180967.83		P	3.0
4	☐	1.000		176386.47		P	0.8
5	☐	1.000		168071.50		P	0.4
6	☐	1.000		166960.60		P	1.5
7	☐	1.000		169607.48		P	0.6
8	☐	1.000		165313.87		P	1.6

89 Y (ISTD) [No Gas]

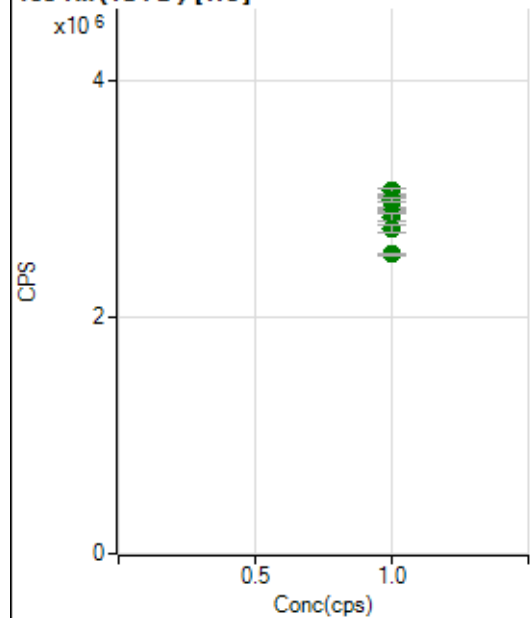
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11767390.38		A	1.7
2	☐	1.000		11644026.91		A	3.3
3	☐	1.000		11827767.46		A	1.2
4	☐	1.000		11598534.27		A	1.7
5	☐	1.000		11309461.64		A	1.9
6	☐	1.000		11767571.22		A	3.8
7	☐	1.000		11591818.58		A	1.5
8	☐	1.000		11003250.95		A	0.6

89 Y (ISTD) [He]

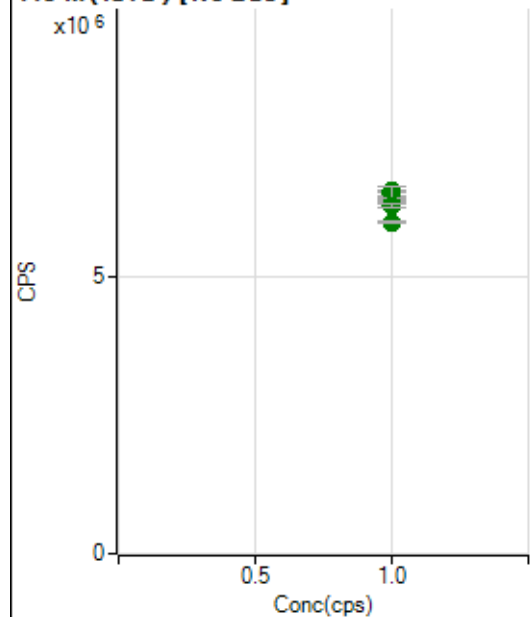
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1309304.29		P	1.2
2	☐	1.000		1359076.46		P	0.3
3	☐	1.000		1342323.84		M	2.4
4	☐	1.000		1319297.37		P	0.1
5	☐	1.000		1278024.24		P	1.4
6	☐	1.000		1250734.14		P	0.7
7	☐	1.000		1245296.25		P	1.6
8	☐	1.000		1253117.42		P	1.1

103 Rh (ISTD) [No Gas]

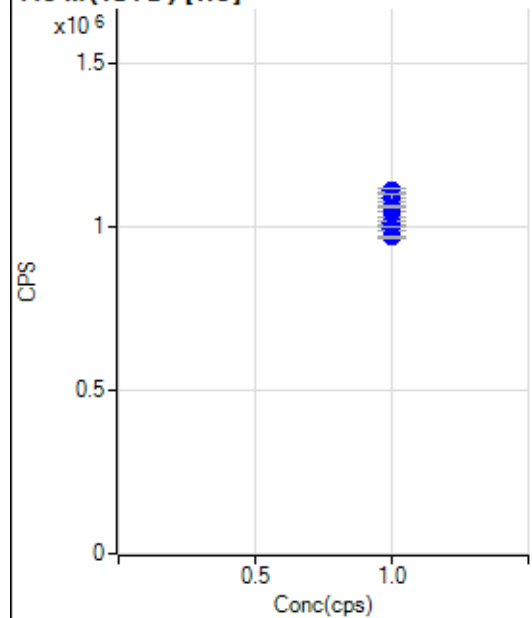
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6714476.02		A	1.5
2	☐	1.000		6502349.28		A	0.8
3	☐	1.000		6538805.79		A	2.0
4	☐	1.000		6559698.45		A	1.3
5	☐	1.000		6244380.78		A	1.0
6	☐	1.000		6295402.74		A	4.1
7	☐	1.000		6135387.81		A	2.8
8	☐	1.000		5446958.58		A	1.3

103 Rh (ISTD) [He]

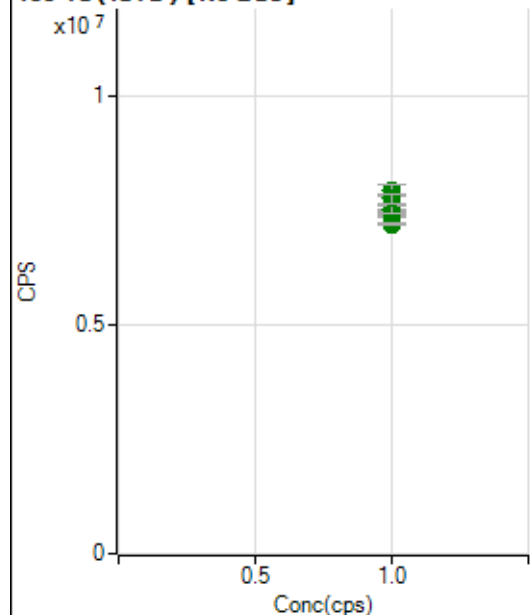
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2975832.73		A	3.8
2	☐	1.000		3066409.78		A	1.6
3	☐	1.000		2970663.57		A	3.7
4	☐	1.000		2992932.98		A	1.0
5	☐	1.000		2881259.23		A	0.6
6	☐	1.000		2838634.09		A	2.1
7	☐	1.000		2744988.26		A	2.7
8	☐	1.000		2533280.15		A	0.8

115 In (ISTD) [No Gas]

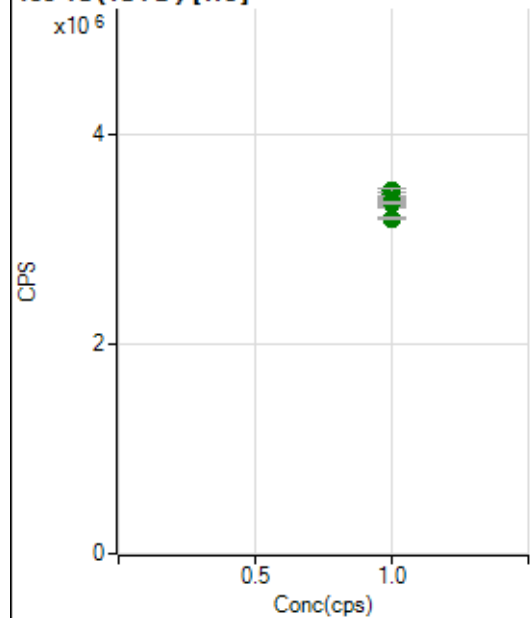
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6504064.83		A	2.3
2	☐	1.000		6457533.16		A	2.5
3	☐	1.000		6427426.84		A	1.1
4	☐	1.000		6564960.32		A	2.5
5	☐	1.000		6420627.22		A	1.2
6	☐	1.000		6539394.34		A	3.5
7	☐	1.000		6292254.94		A	1.1
8	☐	1.000		5997520.08		A	0.4

115 In (ISTD) [He]

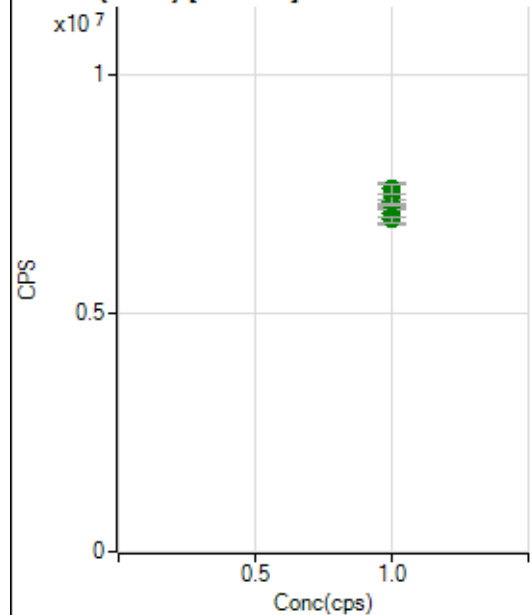
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1065668.88		P	3.9
2	☐	1.000		1108974.58		P	0.9
3	☐	1.000		1089329.72		P	2.3
4	☐	1.000		1059288.27		P	0.5
5	☐	1.000		1026954.80		P	0.2
6	☐	1.000		1009811.17		P	1.4
7	☐	1.000		994688.89		P	1.1
8	☐	1.000		968177.06		P	0.4

159 Tb (ISTD) [No Gas]

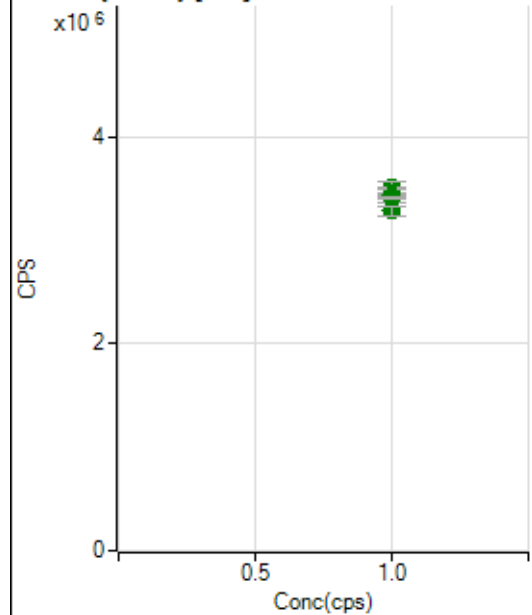
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7367626.21		A	0.8
2	☐	1.000		7634294.40		A	0.8
3	☐	1.000		7433803.71		A	1.6
4	☐	1.000		7489845.03		A	0.3
5	☐	1.000		7525215.45		A	1.8
6	☐	1.000		7926898.08		A	3.2
7	☐	1.000		7761282.11		A	2.4
8	☐	1.000		7194358.36		A	0.7

159 Tb (ISTD) [He]

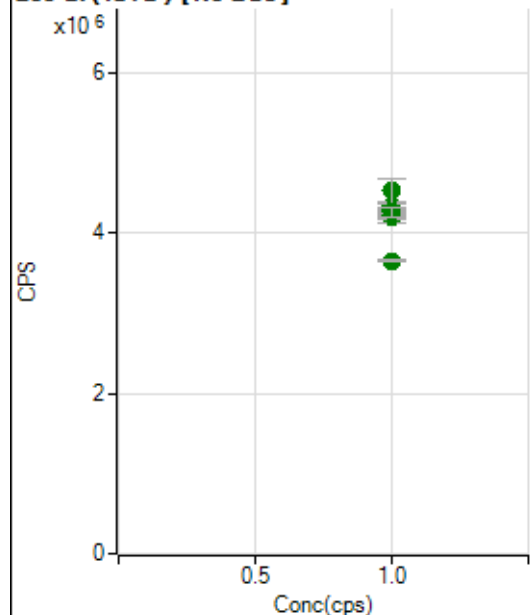
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3343763.32		A	1.3
2	☐	1.000		3469130.88		A	1.2
3	☐	1.000		3443850.61		A	2.4
4	☐	1.000		3377462.24		A	0.5
5	☐	1.000		3368745.50		A	3.1
6	☐	1.000		3363934.04		A	1.8
7	☐	1.000		3361427.90		A	0.5
8	☐	1.000		3206333.35		A	1.0

165 Ho (ISTD) [No Gas]

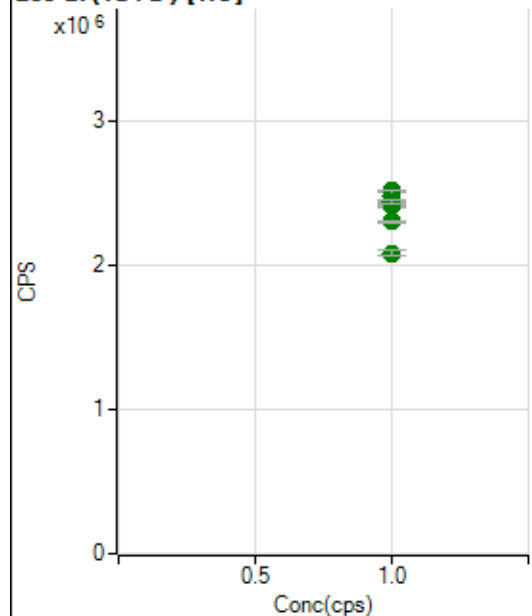
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7013428.46		A	4.6
2	☐	1.000		7107858.84		A	2.9
3	☐	1.000		7088384.27		A	2.5
4	☐	1.000		7235390.01		A	1.4
5	☐	1.000		7322193.48		A	1.5
6	☐	1.000		7513309.11		A	5.7
7	☐	1.000		7601921.35		A	2.5
8	☐	1.000		6961028.02		A	1.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3396861.03		A	1.8
2	☐	1.000		3506841.06		A	3.1
3	☐	1.000		3464461.06		A	2.5
4	☐	1.000		3429050.96		A	0.7
5	☐	1.000		3440903.60		A	0.8
6	☐	1.000		3447202.38		A	2.2
7	☐	1.000		3413768.77		A	0.5
8	☐	1.000		3283309.92		A	2.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4187901.88		A	3.2
2	☐	1.000		4339255.35		A	1.8
3	☐	1.000		4212085.11		A	0.4
4	☐	1.000		4281207.85		A	1.5
5	☐	1.000		4212124.17		A	2.5
6	☐	1.000		4521632.57		A	6.8
7	☐	1.000		4255434.94		A	2.6
8	☐	1.000		3651245.95		A	1.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2410431.09		A	1.3
2	☐	1.000		2512349.73		A	0.8
3	☐	1.000		2470305.93		A	3.8
4	☐	1.000		2437842.08		A	0.4
5	☐	1.000		2426109.65		A	1.5
6	☐	1.000		2436844.75		A	1.1
7	☐	1.000		2299642.76		A	0.5
8	☐	1.000		2083782.78		A	2.0

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8011823 MS.b

Acq. Date-Time 2023-01-18 11:36:17

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		14314	143141.57			0.656	5.000
24		97750	977499.00			1.261	5.000
25		13196	131960.22			0.495	5.000
26		15710	157102.07			0.964	5.000
59		67810	678102.76			0.656	5.000
113		6300	63001.02			1.367	5.000
115		82552	825518.69			0.681	5.000
206		15201	152006.95			1.713	5.000
207		13520	135204.57			1.664	5.000
208		32319	323185.23			2.167	5.000
220		1	7.10			30.858	

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

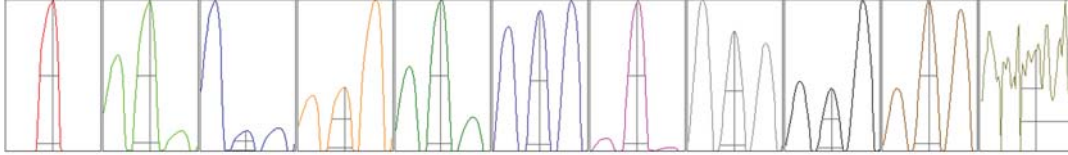
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	14264	14253	14360	14458	14236
24	96708	96215	98554	98176	99096
25	13199	13118	13293	13160	13210
26	15912	15542	15803	15702	15592
59	67842	67037	67978	68115	68079
113	6317	6219	6352	6406	6206
115	82381	81997	83407	82180	82794
206	15183	14772	15445	15244	15359
207	13706	13132	13545	13591	13629
208	32784	31086	32447	32683	32593

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	25586.05	9.00	8.90 - 9.10	
24	173157.57	24.00	23.90 - 24.10	
25	22380.22	24.95	24.90 - 25.10	
26	25988.77	26.00	25.90 - 26.10	
59	123471.99	58.95	58.90 - 59.10	
113	12449.22	113.00	112.90 - 113.10	
115	158635.68	115.00	114.90 - 115.10	
206	28877.35	206.00	205.90 - 206.10	
207	25925.27	207.00	206.90 - 207.10	
208	61920.80	208.00	207.90 - 208.10	
220	0.80	220.30	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.739	0.900	
24	0.61	0.825	0.900	
25	0.62	0.775	0.900	
26	0.62	0.786	0.900	
59	0.57	0.779	0.900	
113	0.53	0.755	0.900	
115	0.53	0.771	0.900	
206	0.54	0.813	0.900	
207	0.54	0.809	0.900	
208	0.54	0.821	0.900	
220	0.66	1.664		

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	15.6 V
Extract 2	-165.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-95 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	150 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9994	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.8 mm
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EM

Discriminator	4.4 mV	Analog HV	2306 V	Pulse HV	1648 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		14510	145099.88			0.502	
89		16044	160437.59			1.125	
205		10858	108580.43			0.642	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	14604	14427	14541	14532	14445
89	16068	16066	15877	16321	15887
205	10906	10942	10868	10782	10793

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	4.4 V
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US EPA Tune Check Report

Extract 2	-165.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-95 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	0.9994	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.8 mm
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EM

Discriminator	4.4 mV	Analog HV	2306 V	Pulse HV	1648 V
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