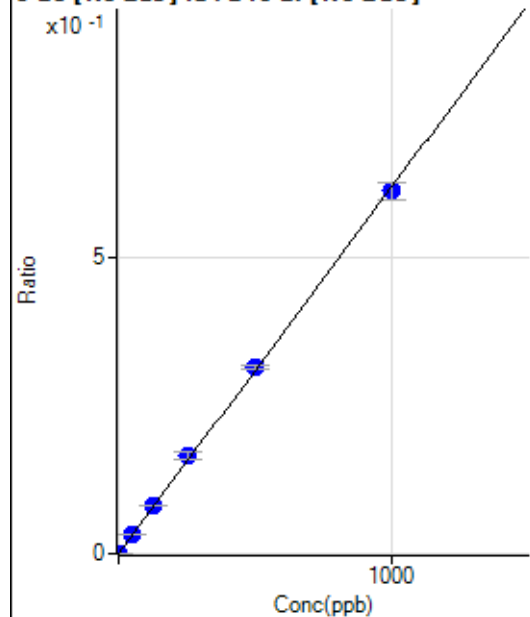


Calibration for 006CAL.S.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7052623-MS.b\
 Analysis File: P7052623-MS.batch.bin
 DA Date-Time: 2023-05-26 19:40:56
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-05-26 13:30:58
2	006CAL.S.d	S02	2023-05-26 13:37:34
3	007CAL.S.d	S03	2023-05-26 13:40:51
4	008CAL.S.d	S04	2023-05-26 13:44:07
5	009CAL.S.d	S05	2023-05-26 13:47:14
6	010CAL.S.d	S06	2023-05-26 13:50:15
7	011CAL.S.d	S07	2023-05-26 13:53:08
8	012CAL.S.d	S08	2023-05-26 13:55:59

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	34.44	0.0000	P	24.0
2	☐	1.000	0.928	453.34	0.0006	P	4.2
3	☐	50.000	54.026	24164.39	0.0334	P	1.1
4	☐	125.000	131.960	57922.96	0.0815	P	0.7
5	☐	250.000	266.995	112392.46	0.1648	P	6.4
6	☐	500.000	509.236	217097.94	0.3142	P	1.8
7	☐	1000.000	990.062	413218.82	0.6109	P	4.6
8	☐			388.90	0.0006	P	28.4

$$y = 6.1698\text{E-}004 * x + 4.8156\text{E-}005$$

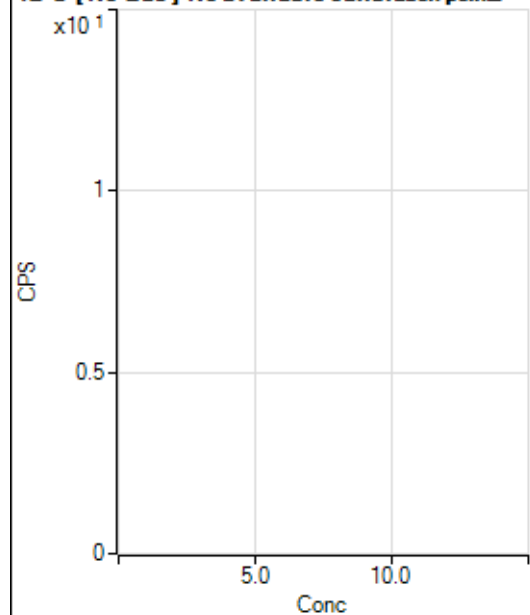
$$R = 0.9998$$

$$DL = 0.05628$$

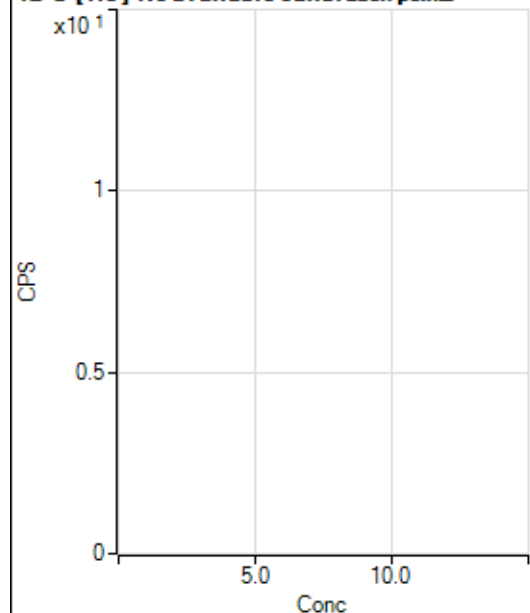
$$BEC = 0.07805$$

Weight: <None>

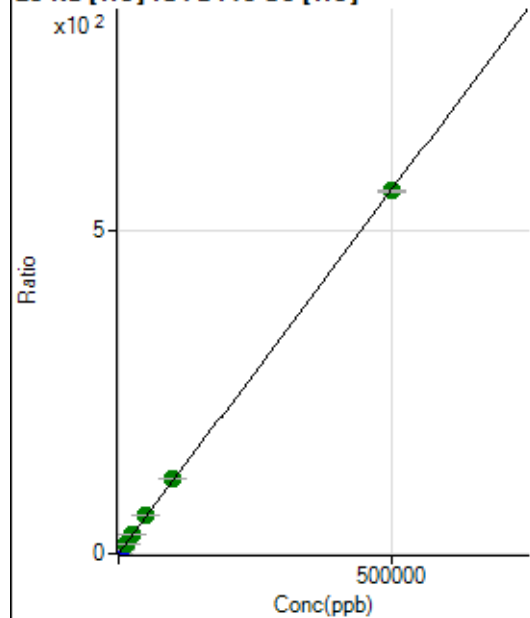
Min Conc: 0

12 C [No Gas] No available calibration points

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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11407.63	0.0734	P	1.1
2	☐	500.000	507.243	101802.33	0.6458	P	0.4
3	☐	5000.000	5533.850	986027.61	6.3189	P	0.4
4	☐	12500.000	13067.035	2285117.73	14.8209	A	1.1
5	☐	25000.000	26078.470	4516450.45	29.5057	A	2.5
6	☐	50000.000	52844.684	9002485.77	59.7142	A	0.6
7	☐	100000.00	103861.95	17663176.82	117.2925	A	0.6
8	☐	500000.00	498869.69	72437048.36	563.1004	A	0.3

$$y = 0.0011 * x + 0.0734$$

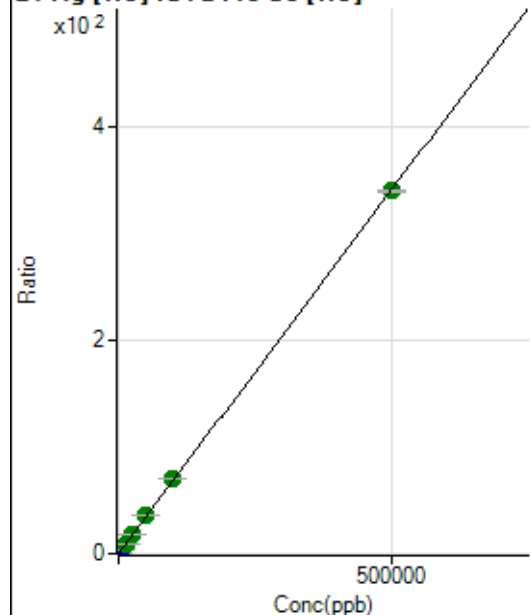
$$R = 1.0000$$

$$DL = 2.17$$

$$BEC = 65$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	394.45	0.0025	P	2.7
2	☐	500.000	516.426	55894.36	0.3546	P	0.3
3	☐	5000.000	5642.865	600670.39	3.8493	P	0.4
4	☐	12500.000	13426.678	1411818.17	9.1557	A	1.0
5	☐	25000.000	26853.087	2802531.66	18.3086	A	2.4
6	☐	50000.000	53658.684	5515160.89	36.5823	A	0.8
7	☐	100000.00	103701.29	10646698.66	70.6969	A	0.9
8	☐	500000.00	498771.60	43741718.79	340.0211	A	0.8

$$y = 6.8171E-004 * x + 0.0025$$

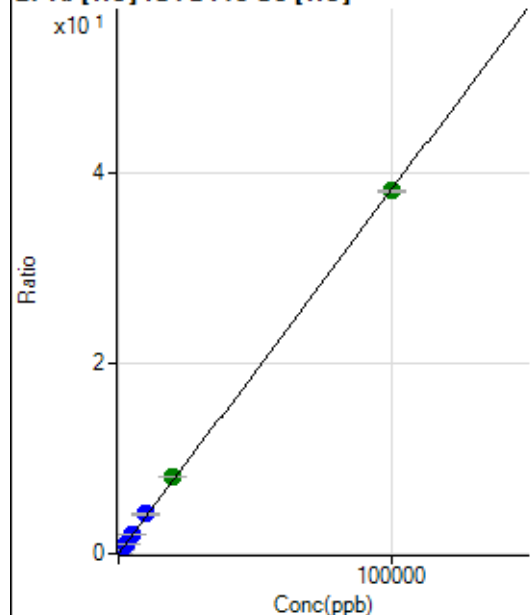
$$R = 1.0000$$

$$DL = 0.299$$

$$BEC = 3.721$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16.67	0.0001	P	0.6
2	☐	20.000	20.144	1233.39	0.0078	P	8.6
3	☐	1000.000	1147.661	68610.10	0.4397	P	1.0
4	☐	2500.000	2678.971	158233.43	1.0262	P	0.5
5	☐	5000.000	5291.707	310265.03	2.0270	P	2.6
6	☐	10000.000	10839.565	625974.59	4.1520	P	0.4
7	☐	20000.000	21048.531	1214138.09	8.0623	A	0.4
8	☐	100000.00	99685.801	4911781.00	38.1828	A	0.5

$$y = 3.8303E-004 * x + 1.0720E-004$$

$$R = 0.9999$$

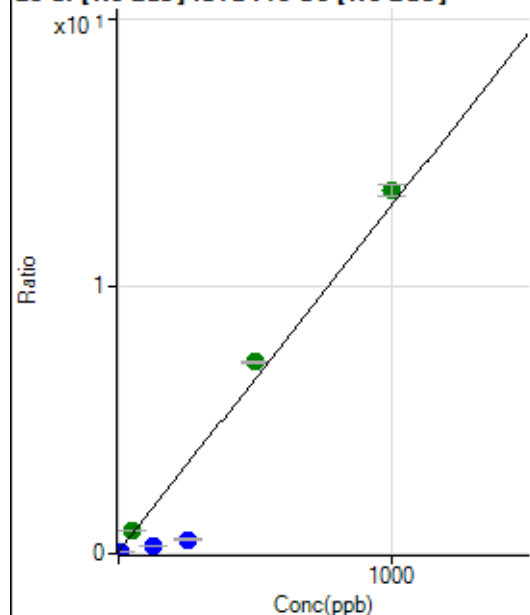
$$DL = 0.004698$$

$$BEC = 0.2799$$

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	144649.00	0.0822	P	1.1
2	☐	10.000	0.503	158709.09	0.0887	P	1.5
3	☐	50.000	60.209	1552848.97	0.8595	A	2.2
4	☐	125.000	16.156	519985.24	0.2907	P	8.5
5	☐	250.000	34.994	892181.40	0.5339	P	15.6
6	☐	500.000	547.352	12486186.62	7.1483	A	0.3
7	☐	1000.000	1043.266	23577836.59	13.5505	A	3.3
8	☐			537291.77	0.3500	P	13.3

$$y = 0.0129 * x + 0.0822$$

$$R = 0.9744$$

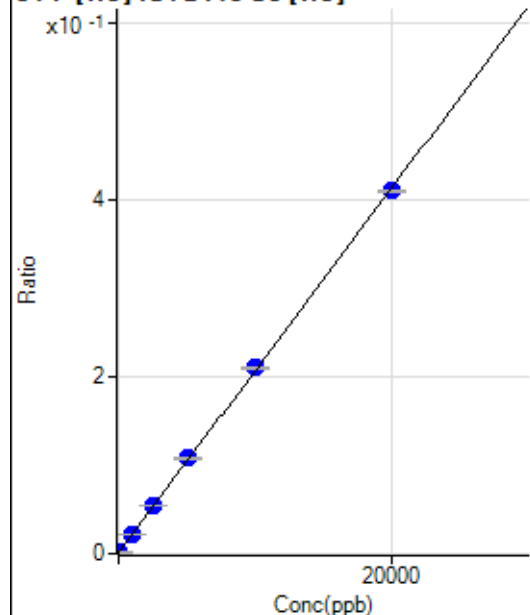
$$DL = 0.2057$$

$$BEC = 6.365$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-8.629	127.78	0.0008	P	6.1
2	☐	0.000	8.629	185.56	0.0012	P	16.9
3	☐	1000.000	1016.397	3417.08	0.0219	P	5.4
4	☐	2500.000	2593.793	8379.02	0.0543	P	2.2
5	☐	5000.000	5178.343	16457.82	0.1075	P	1.4
6	☐	10000.000	10166.599	31671.65	0.2101	P	0.6
7	☐	20000.000	19859.571	61654.67	0.4094	P	0.5
8	☐			128.89	0.0010	P	22.0

$$y = 2.0565E-005 * x + 9.9918E-004$$

$$R = 0.9999$$

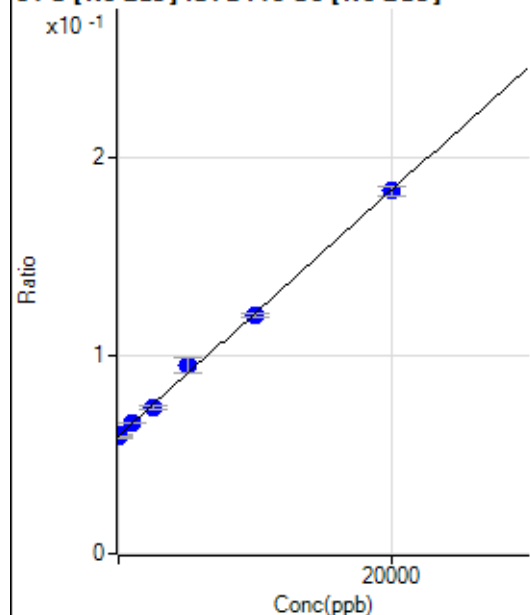
$$DL = 18.13$$

$$BEC = 48.59$$

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	134.092	106506.97	0.0605	P	0.3
2	☐	0.000	-134.092	105322.17	0.0588	P	0.6
3	☐	1000.000	1029.539	119362.96	0.0661	P	1.4
4	☐	2500.000	2327.339	132561.18	0.0741	P	2.4
5	☐	5000.000	5724.709	159662.00	0.0952	P	7.3
6	☐	10000.000	9835.521	210805.33	0.1207	P	1.5
7	☐	20000.000	19921.168	318907.48	0.1833	P	2.9
8	☐			93184.14	0.0606	P	1.9

$$y = 6.2041\text{E-}006 * x + 0.0597$$

R = 0.9991

DL = 129.8

BEC = 9618

Weight: <None>

Min Conc: 0

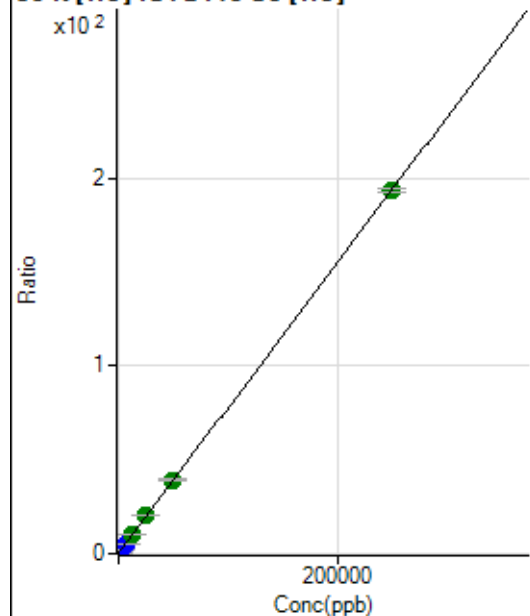
35 Cl [No Gas] No available calibration points



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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	31717.55	0.2040	P	1.9
2	☐	500.000	506.037	93794.51	0.5950	P	0.5
3	☐	2500.000	2795.543	368946.66	2.3644	P	0.7
4	☐	6250.000	6938.235	858164.88	5.5659	P	1.0
5	☐	12500.000	13025.883	1571992.30	10.2706	A	3.3
6	☐	25000.000	25957.367	3055104.36	20.2642	A	0.4
7	☐	50000.000	50707.945	5932178.80	39.3919	A	0.3
8	☐	250000.00	249716.20	24852849.63	193.1886	A	1.2

$$y = 7.7282E-004 * x + 0.2040$$

$$R = 1.0000$$

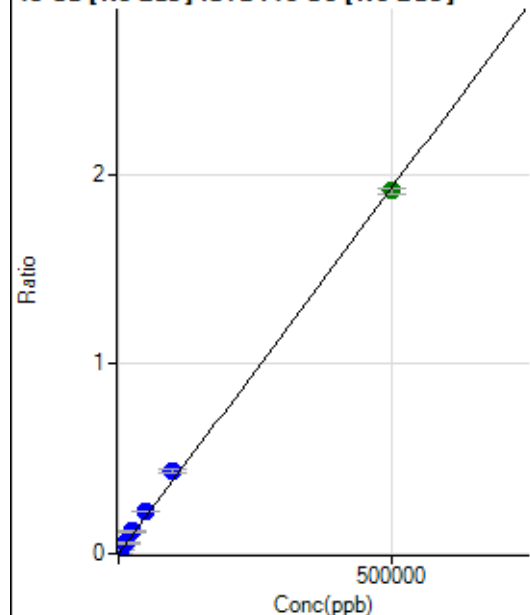
$$DL = 15.17$$

$$BEC = 263.9$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	33.34	0.0000	P	45.5
2	☐	500.000	510.659	3553.78	0.0020	P	1.1
3	☐	5000.000	5912.075	41167.89	0.0228	P	2.6
4	☐	12500.000	14590.320	100539.35	0.0562	P	2.3
5	☐	25000.000	30751.702	198585.93	0.1184	P	8.1
6	☐	50000.000	57263.466	385197.09	0.2205	P	1.3
7	☐	100000.00	112603.90	754472.82	0.4336	P	3.8
8	☐	500000.00	496403.89	2940578.98	1.9116	A	1.3

$$y = 3.8508E-006 * x + 1.8915E-005$$

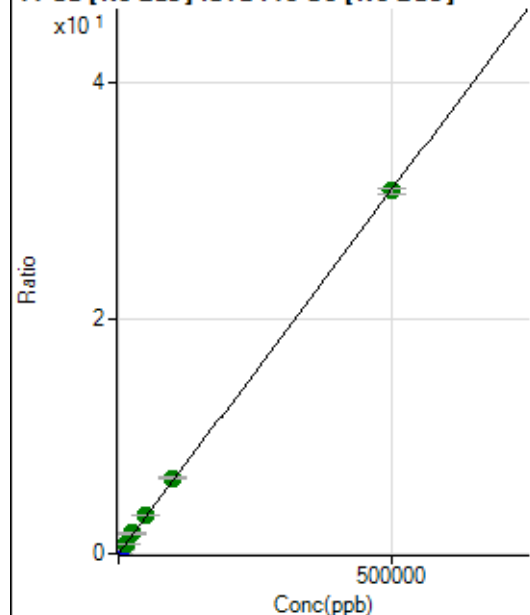
R = 0.9996

$$DL = 6.708$$
$$\text{BEC} = 4.912$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2147.95	0.0012	P	3.4
2	☐	500.000	521.876	59916.56	0.0335	P	1.4
3	☐	5000.000	5722.374	641167.53	0.3549	P	2.7
4	☐	12500.000	13357.568	1478820.92	0.8268	A	3.0
5	☐	25000.000	27962.587	2901648.95	1.7294	A	6.8
6	☐	50000.000	52358.279	5654435.19	3.2371	A	0.6
7	☐	100000.00	104251.05	11211288.58	6.4443	A	4.3
8	☐	500000.00	498737.14	47414656.51	30.8248	A	1.7

$$y = 6.1803E-005 * x + 0.0012$$

R = 1.0000

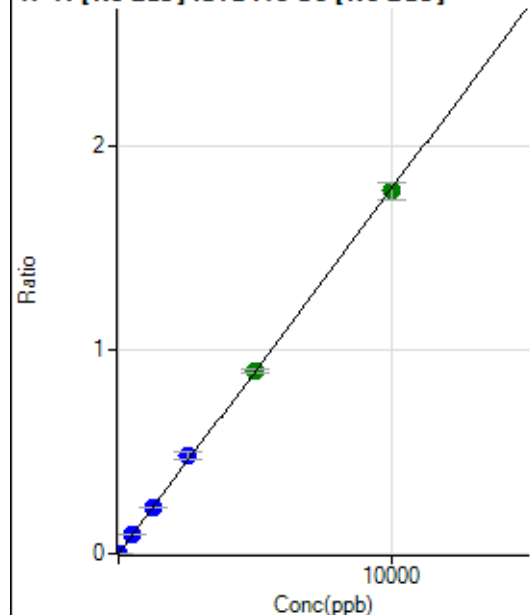
$$DL = 2.009$$

BEC = 19.74

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	38.89	0.0000	P	19.5
2	☐	5.000	4.879	1598.99	0.0009	P	4.3
3	☐	500.000	519.800	167777.35	0.0929	P	2.4
4	☐	1250.000	1274.568	407272.30	0.2277	P	2.2
5	☐	2500.000	2688.955	805108.00	0.4803	P	8.6
6	☐	5000.000	5011.937	1563578.48	0.8952	A	1.7
7	☐	10000.000	9942.732	3089497.63	1.7758	A	4.4
8	☐			1014.49	0.0007	P	30.0

$$y = 1.7861\text{E-}004 * x + 2.2080\text{E-}005$$

$$R = 0.9998$$

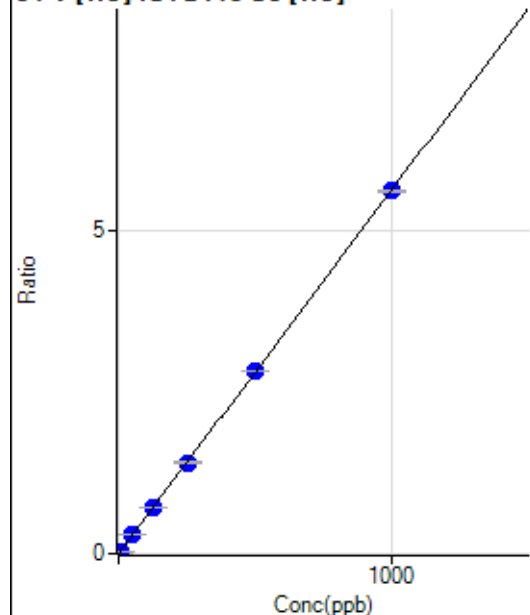
$$DL = 0.07235$$

$$BEC = 0.1236$$

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	8.89	0.0001	P	107.
2	☐	5.000	4.862	4328.43	0.0275	P	0.6
3	☐	50.000	50.651	44558.92	0.2855	P	0.4
4	☐	125.000	125.972	109484.45	0.7101	P	0.7
5	☐	250.000	250.500	216140.71	1.4120	P	2.0
6	☐	500.000	503.019	427453.68	2.8353	P	0.2
7	☐	1000.000	998.212	847284.44	5.6264	P	0.8
8	☐			264.45	0.0021	P	12.6

$$y = 0.0056 * x + 5.6940\text{E-}005$$

$$R = 1.0000$$

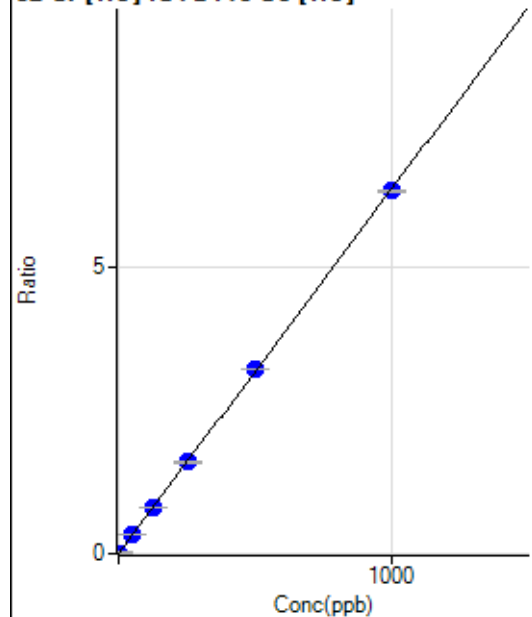
$$DL = 0.03269$$

$$BEC = 0.0101$$

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	473.35	0.0030	P	1.7
2	☐	2.000	2.131	2613.58	0.0166	P	6.1
3	☐	50.000	52.280	52306.95	0.3352	P	0.5
4	☐	125.000	126.919	124797.41	0.8094	P	1.1
5	☐	250.000	251.932	245477.00	1.6037	P	2.3
6	☐	500.000	507.206	486287.94	3.2255	P	0.3
7	☐	1000.000	995.560	952978.03	6.3283	P	0.6
8	☐			6602.61	0.0513	P	2.8

$$y = 0.0064 * x + 0.0030$$

$$R = 1.0000$$

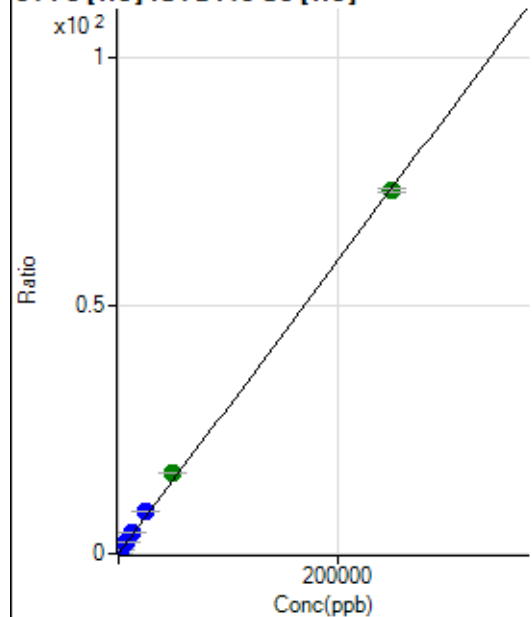
$$DL = 0.02496$$

$$BEC = 0.4791$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	835.58	0.0054	P	3.3
2	☐	50.000	56.491	3472.66	0.0220	P	1.9
3	☐	2500.000	3004.346	139078.31	0.8913	P	0.4
4	☐	6250.000	7440.080	339080.12	2.1992	P	1.2
5	☐	12500.000	14732.033	665801.12	4.3494	P	1.9
6	☐	25000.000	29154.162	1296871.98	8.6021	P	0.2
7	☐	50000.000	55047.329	2445231.09	16.2373	A	0.8
8	☐	250000.00	248428.71	9424093.26	73.2602	A	0.9

$$y = 2.9487E-004 * x + 0.0054$$

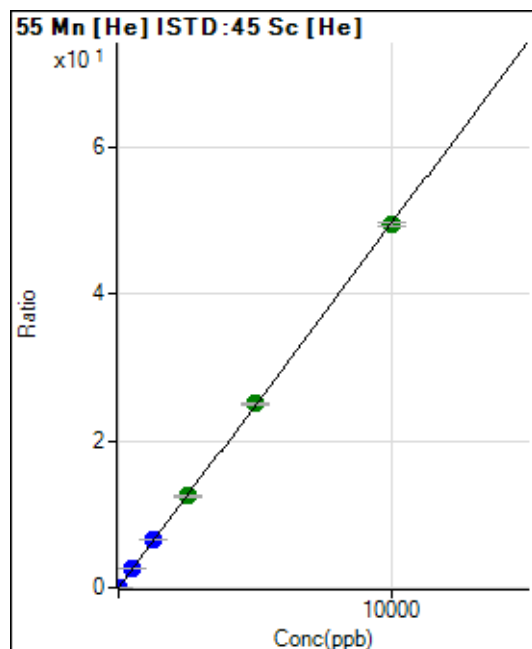
$$R = 0.9997$$

$$DL = 1.804$$

$$BEC = 18.22$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	82.22	0.0005	P	22.1
2	☐	1.000	1.086	931.15	0.0059	P	4.1
3	☐	500.000	536.787	414962.33	2.6592	P	0.2
4	☐	1250.000	1314.105	1003631.79	6.5093	P	0.7
5	☐	2500.000	2530.252	1918453.35	12.5328	A	2.1
6	☐	5000.000	5048.018	3769505.81	25.0033	A	0.6
7	☐	10000.000	9958.576	7428015.72	49.3253	A	1.2
8	☐			3767.18	0.0293	P	1.0

$$y = 0.0050 * x + 5.2852E-004$$

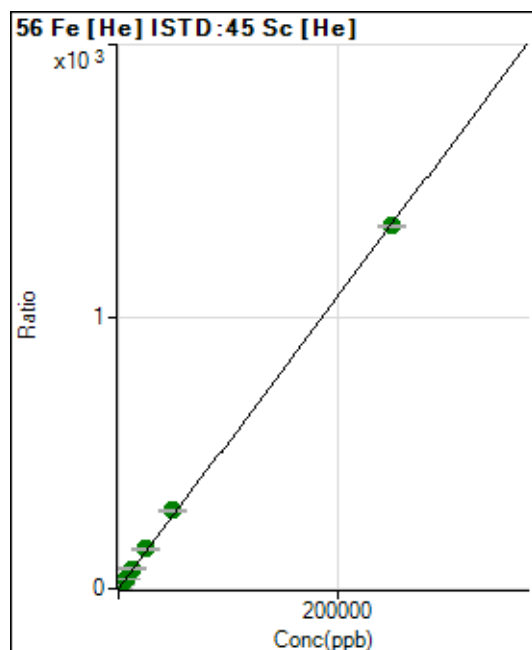
$$R = 1.0000$$

$$DL = 0.07087$$

$$BEC = 0.1067$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6450.33	0.0415	P	5.6
2	☐	50.000	55.029	53035.31	0.3365	P	1.1
3	☐	2500.000	2824.099	2368688.94	15.1801	A	1.1
4	☐	6250.000	6924.220	5729247.41	37.1588	A	1.1
5	☐	12500.000	13769.936	11304991.36	73.8553	A	2.4
6	☐	25000.000	27056.765	21872800.79	145.0794	A	0.6
7	☐	50000.000	53495.531	43191075.19	286.8045	A	0.5
8	☐	250000.00	249011.62	171718727.4	1,334.869	A	0.5

$$y = 0.0054 * x + 0.0415$$

$$R = 0.9999$$

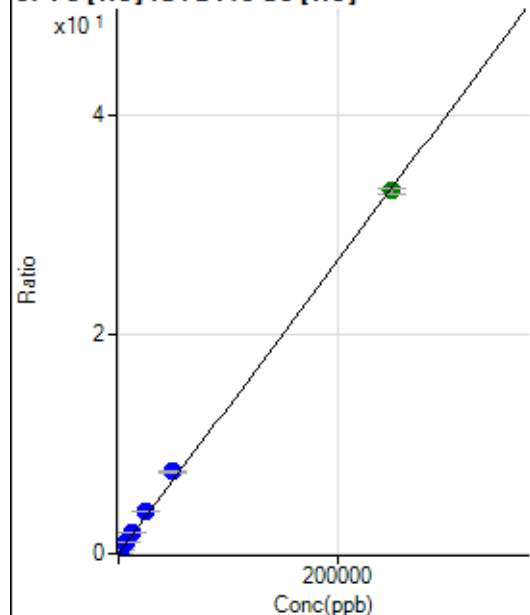
$$DL = 1.302$$

$$BEC = 7.739$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	246.67	0.0016	P	9.4
2	☐	50.000	56.368	1436.75	0.0091	P	2.0
3	☐	2500.000	2974.476	62249.19	0.3989	P	0.3
4	☐	6250.000	7303.594	150667.35	0.9772	P	0.6
5	☐	12500.000	14460.549	295907.06	1.9332	P	2.5
6	☐	25000.000	28559.907	575383.15	3.8165	P	0.2
7	☐	50000.000	55999.770	1126692.35	7.4818	P	0.8
8	☐	250000.00	248314.94	4267339.69	33.1706	A	1.5

$$y = 1.3358\text{E-}004 * x + 0.0016$$

$$R = 0.9996$$

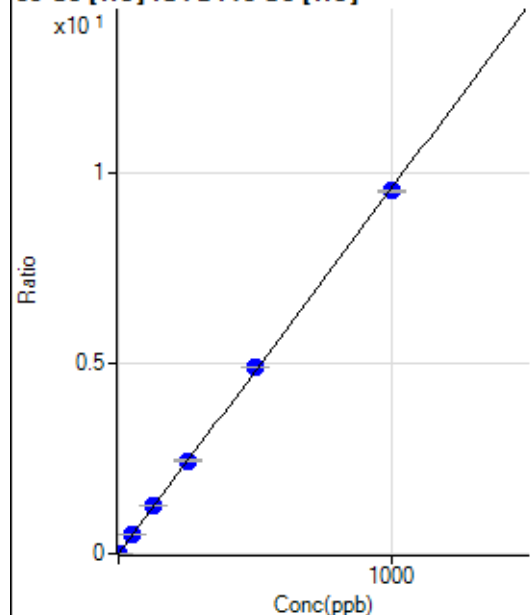
$$DL = 3.359$$

$$BEC = 11.87$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	48.89	0.0003	P	41.4
2	☐	1.000	0.968	1516.76	0.0096	P	2.7
3	☐	50.000	53.084	79695.46	0.5107	P	0.5
4	☐	125.000	129.882	192601.25	1.2491	P	0.5
5	☐	250.000	255.032	375417.06	2.4525	P	1.9
6	☐	500.000	509.678	738866.32	4.9009	P	0.5
7	☐	1000.000	993.138	1438071.00	9.5494	P	0.4
8	☐			1458.98	0.0113	P	7.6

$$y = 0.0096 * x + 3.1421\text{E-}004$$

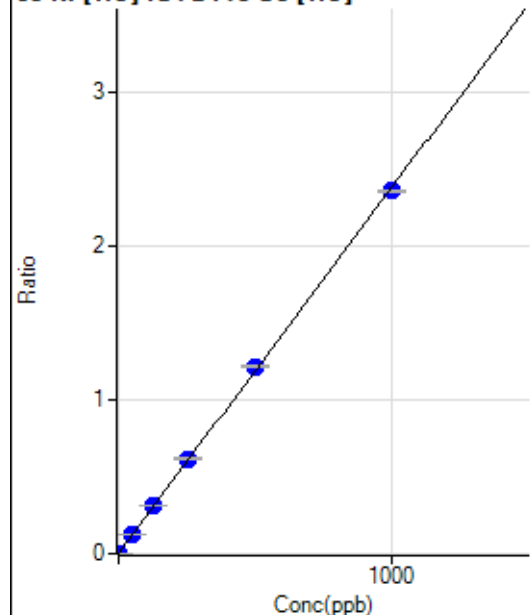
$$R = 0.9999$$

$$DL = 0.04058$$

$$BEC = 0.03268$$

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	205.56	0.0013	P	6.6
2	☐	1.000	1.105	622.24	0.0039	P	2.7
3	☐	50.000	53.876	20179.20	0.1293	P	1.9
4	☐	125.000	131.957	48538.19	0.3148	P	1.3
5	☐	250.000	257.916	93990.90	0.6140	P	2.4
6	☐	500.000	510.561	183060.08	1.2142	P	0.8
7	☐	1000.000	991.677	354972.19	2.3572	P	0.9
8	☐			1145.61	0.0089	P	2.9

$$y = 0.0024 * x + 0.0013$$

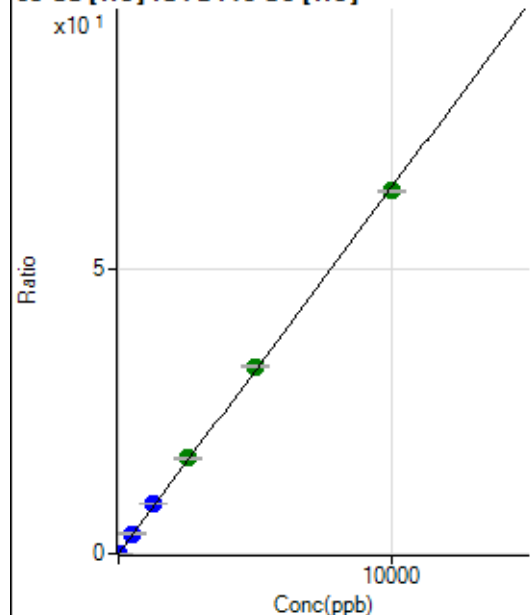
$$R = 0.9999$$

$$DL = 0.1101$$

$$BEC = 0.5564$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	300.01	0.0019	P	12.3
2	☐	2.000	2.112	2452.45	0.0156	P	2.0
3	☐	500.000	550.767	554911.58	3.5561	P	0.3
4	☐	1250.000	1346.459	1339982.43	8.6908	P	0.8
5	☐	2500.000	2610.945	2579117.90	16.8507	A	3.1
6	☐	5000.000	5102.111	4964062.74	32.9265	A	0.7
7	☐	10000.000	9906.612	9627607.84	63.9305	A	0.8
8	☐			1892.36	0.0147	P	6.9

$$y = 0.0065 * x + 0.0019$$

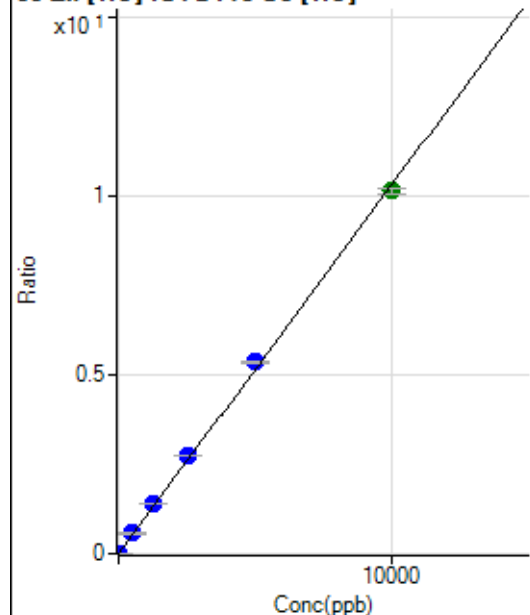
$$R = 0.9998$$

$$DL = 0.1105$$

$$BEC = 0.2988$$

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	51.11	0.0003	P	26.7
2	☐	2.000	2.352	434.46	0.0028	P	8.8
3	☐	500.000	548.720	88417.36	0.5666	P	0.5
4	☐	1250.000	1354.413	215565.29	1.3981	P	0.9
5	☐	2500.000	2662.533	420679.51	2.7481	P	1.8
6	☐	5000.000	5197.638	808743.25	5.3644	P	0.3
7	☐	10000.000	9845.060	1530043.45	10.1606	A	1.8
8	☐			7449.69	0.0579	P	0.8

$$y = 0.0010 * x + 3.2844E-004$$

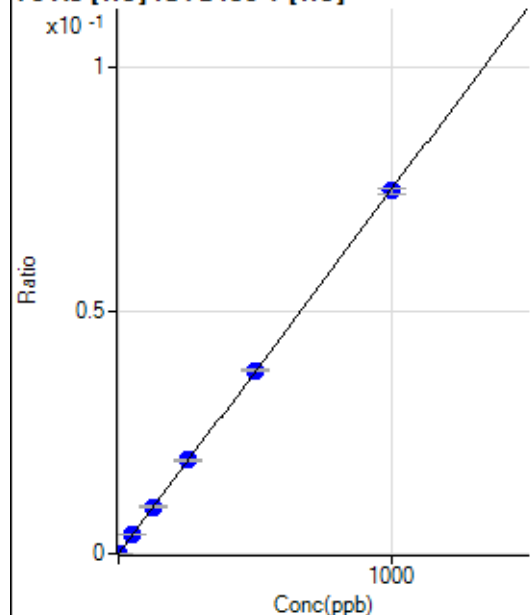
$$R = 0.9995$$

$$DL = 0.2545$$

$$BEC = 0.3183$$

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	2.22	0.0000	P	86.6
2	☐	1.000	1.117	127.78	0.0001	P	11.6
3	☐	50.000	51.900	5750.05	0.0039	P	1.1
4	☐	125.000	128.993	14204.65	0.0097	P	2.5
5	☐	250.000	256.110	27965.28	0.0192	P	3.9
6	☐	500.000	503.569	54197.47	0.0378	P	1.3
7	☐	1000.000	996.094	107114.06	0.0747	P	1.2
8	☐			28.89	0.0000	P	25.3

$$y = 7.4972E-005 * x + 1.4950E-006$$

$$R = 1.0000$$

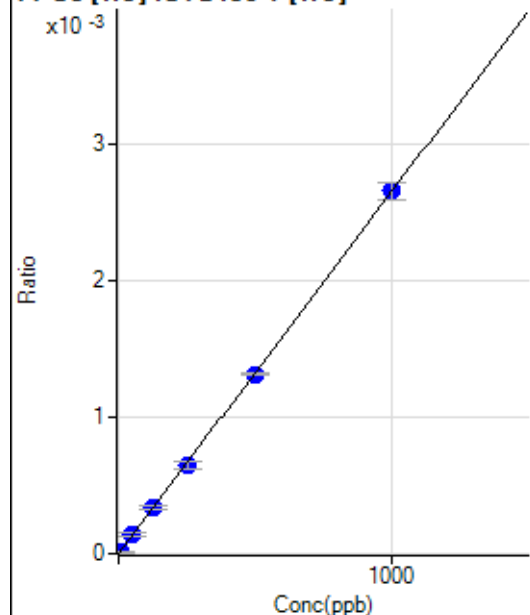
$$DL = 0.05181$$

$$BEC = 0.01994$$

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	3.916	15.55	0.0000	P	68.6
3	☐	50.000	53.081	207.78	0.0001	P	14.2
4	☐	125.000	127.940	497.79	0.0003	P	7.7
5	☐	250.000	242.781	938.93	0.0006	P	8.8
6	☐	500.000	496.551	1887.92	0.0013	P	1.9
7	☐	1000.000	1003.013	3809.42	0.0027	P	4.9
8	☐			2.22	0.0000	P	86.6

$$y = 2.6485\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

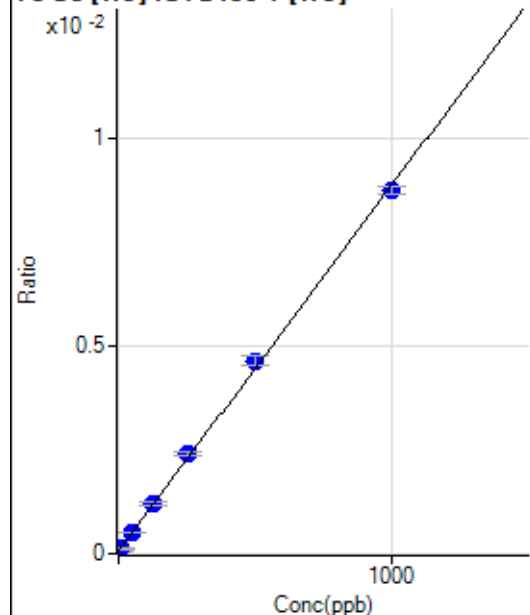
$$DL = 0$$

$$BEC = 0$$

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	91.11	0.0001	P	37.6
2	☐	5.000	6.494	177.78	0.0001	P	7.8
3	☐	50.000	50.028	742.25	0.0005	P	5.9
4	☐	125.000	130.096	1774.57	0.0012	P	8.1
5	☐	250.000	265.080	3492.67	0.0024	P	3.3
6	☐	500.000	520.890	6677.12	0.0047	P	4.9
7	☐	1000.000	985.139	12542.04	0.0087	P	2.1
8	☐			75.56	0.0001	P	12.1

$$y = 8.8145\text{E-}006 * x + 6.1413\text{E-}005$$

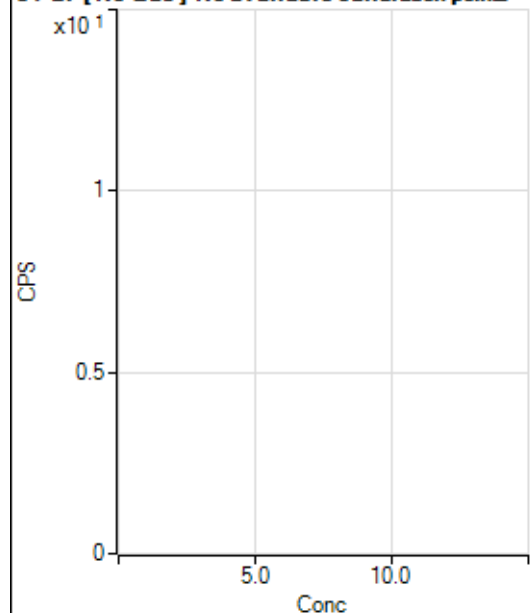
$$R = 0.9995$$

$$DL = 7.862$$

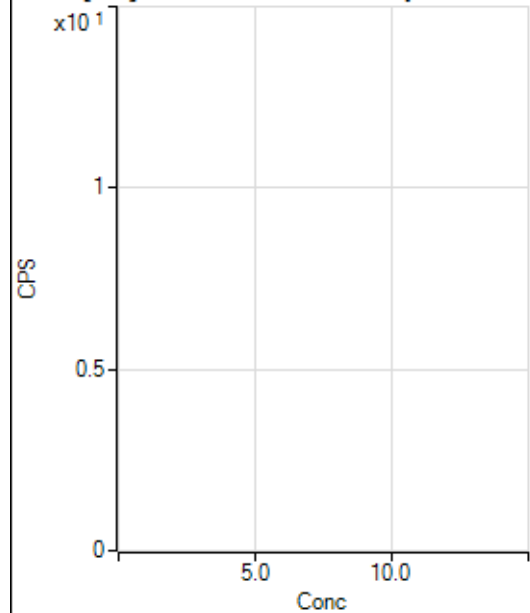
$$BEC = 6.967$$

Weight: <None>

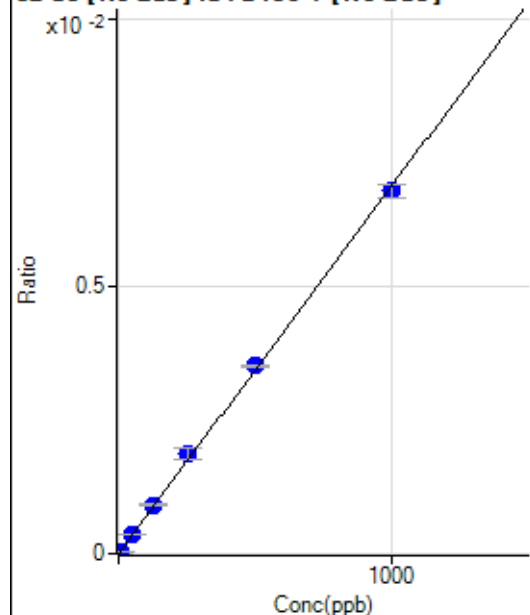
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			24186.61		P	0.5
2	☐			23915.02		P	1.1
3	☐			23980.70		P	0.9
4	☐			23439.84		P	0.7
5	☐			23373.11		P	1.6
6	☐			23230.66		P	1.3
7	☐			23464.33		P	0.7
8	☐			21622.67		P	4.6

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35.56		P	27.1
2	☐			33.33		P	10.0
3	☐			26.67		P	25.0
4	☐			24.44		P	61.5
5	☐			28.89		P	35.2
6	☐			28.89		P	6.7
7	☐			30.00		P	11.1
8	☐			41.11		P	33.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5.84	0.0000	P	394.
2	☐	5.000	5.411	238.52	0.0000	P	9.0
3	☐	50.000	52.482	2271.80	0.0004	P	2.8
4	☐	125.000	132.786	5662.68	0.0009	P	0.9
5	☐	250.000	271.953	11054.34	0.0019	P	11.3
6	☐	500.000	511.712	21571.26	0.0035	P	1.3
7	☐	1000.000	987.556	41889.95	0.0068	P	4.1
8	☐			89.39	0.0000	P	21.8

$$y = 6.8702E-006 * x + 9.5737E-007$$

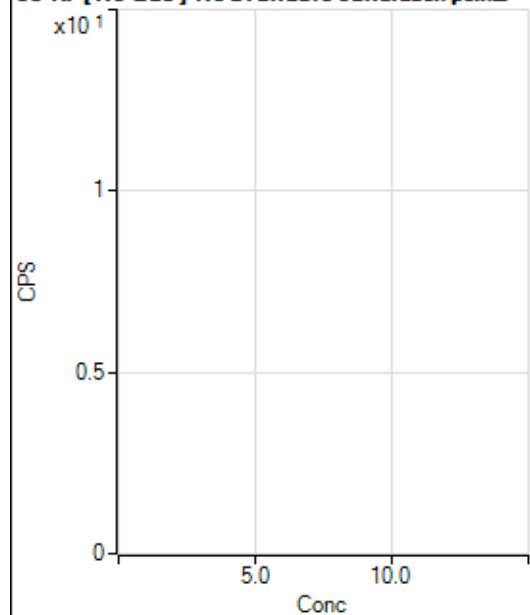
$$R = 0.9996$$

$$DL = 1.65$$

$$BEC = 0.1394$$

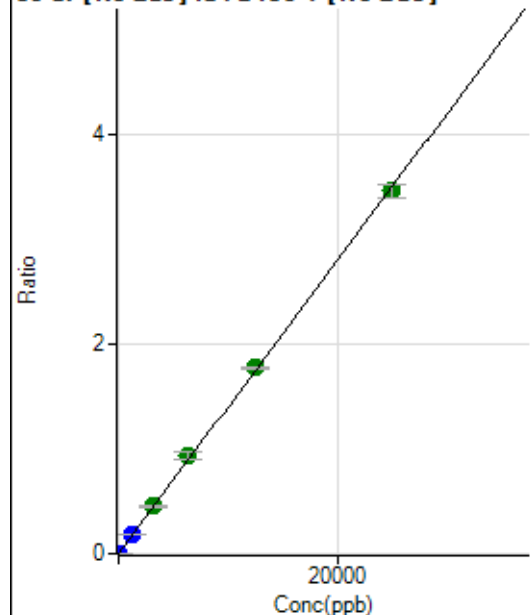
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			48.89		P	39.9
2	☐			46.67		P	18.9
3	☐			44.44		P	26.3
4	☐			46.67		P	43.5
5	☐			58.89		P	22.9
6	☐			47.78		P	8.1
7	☐			52.22		P	9.7
8	☐			48.89		P	25.8

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.00	0.0000	P	14.7
2	☐	1.000	0.990	945.60	0.0002	P	2.6
3	☐	1250.000	1278.705	1121687.23	0.1785	P	0.9
4	☐	3125.000	3220.065	2787574.41	0.4495	A	1.1
5	☐	6250.000	6687.332	5527653.04	0.9336	A	8.9
6	☐	12500.000	12703.823	10879001.16	1.7735	A	1.5
7	☐	25000.000	24775.437	21353501.21	3.4587	A	3.5
8	☐			8291.38	0.0015	P	17.3

$$y = 1.3960\text{E-}004 * x + 1.3004\text{E-}005$$

$$R = 0.9998$$

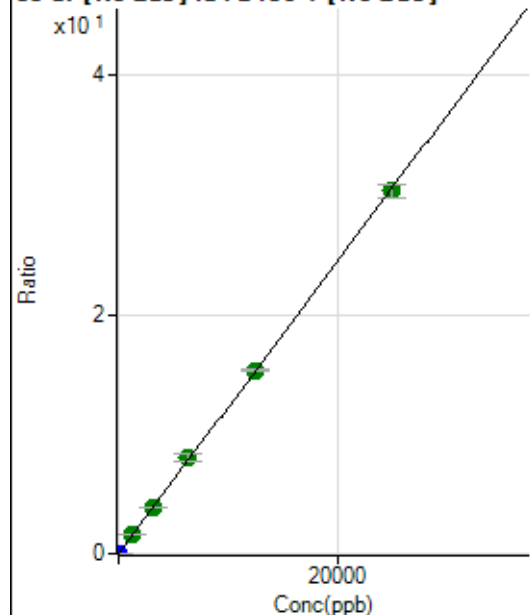
$$DL = 0.04119$$

$$BEC = 0.09315$$

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	105.56	0.0000	P	9.4
2	☐	1.000	0.987	7638.72	0.0012	P	1.4
3	☐	1250.000	1271.761	9749696.94	1.5517	A	1.9
4	☐	3125.000	3200.430	24212173.53	3.9048	A	1.2
5	☐	6250.000	6628.536	47898141.51	8.0873	A	8.4
6	☐	12500.000	12568.292	94064669.71	15.3343	A	1.5
7	☐	25000.000	24860.703	187254283.8	30.3320	A	4.0
8	☐			72625.94	0.0133	P	18.8

$$y = 0.0012 * x + 1.7157\text{E-}005$$

$$R = 0.9999$$

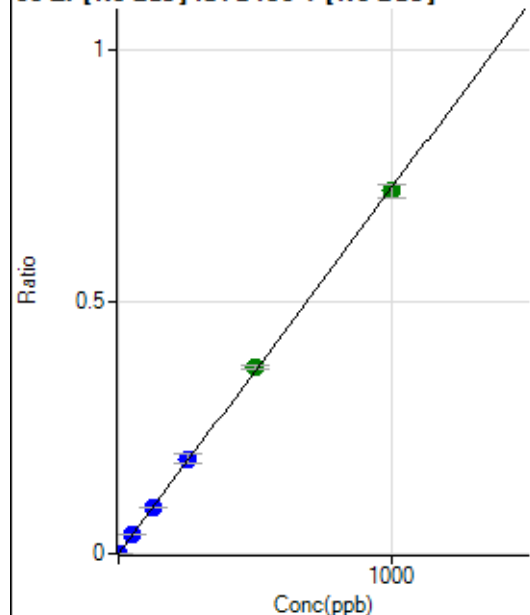
$$DL = 0.003967$$

$$BEC = 0.01406$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	158.89	0.0000	P	4.8
2	☐	1.000	0.872	4127.29	0.0007	P	5.2
3	☐	50.000	51.300	234554.69	0.0373	P	1.6
4	☐	125.000	124.527	561673.41	0.0906	P	1.4
5	☐	250.000	260.206	1120512.22	0.1893	P	9.1
6	☐	500.000	510.965	2279552.17	0.3716	A	1.8
7	☐	1000.000	991.960	4453825.80	0.7214	A	3.7
8	☐			1548.99	0.0003	P	23.6

$$y = 7.2722\text{E-}004 * x + 2.5825\text{E-}005$$

$$R = 0.9998$$

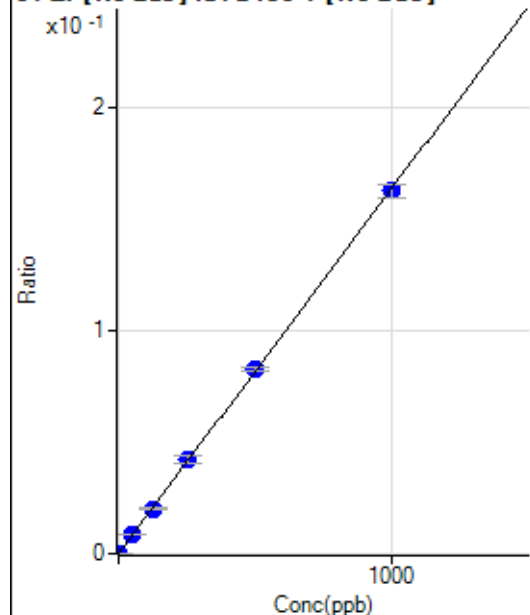
$$DL = 0.005075$$

$$BEC = 0.03551$$

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	38.89	0.0000	P	26.6
2	☐	1.000	0.827	884.48	0.0001	P	5.3
3	☐	50.000	50.861	52210.33	0.0083	P	1.0
4	☐	125.000	123.370	124919.66	0.0201	P	1.4
5	☐	250.000	258.842	250211.36	0.0423	P	9.1
6	☐	500.000	506.961	507726.42	0.0828	P	1.7
7	☐	1000.000	994.470	1002304.45	0.1624	P	3.9
8	☐			362.23	0.0001	P	23.8

$$y = 1.6325\text{E-}004 * x + 6.3246\text{E-}006$$

$$R = 0.9999$$

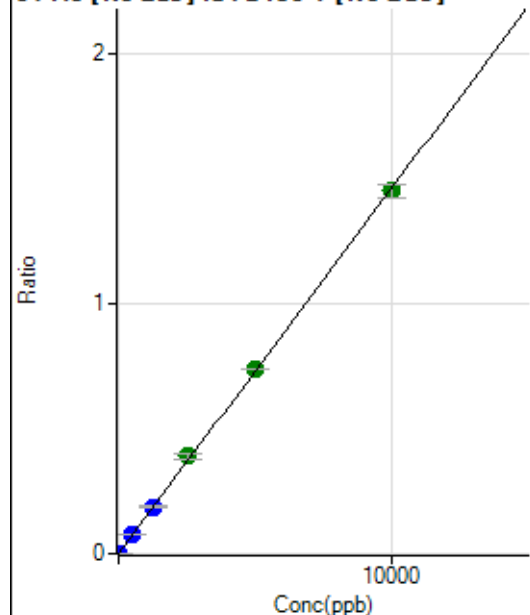
$$DL = 0.03087$$

$$BEC = 0.03874$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	77.78	0.0000	P	25.9
2	☐	5.000	5.455	5063.14	0.0008	P	2.2
3	☐	500.000	516.784	474437.38	0.0755	P	0.5
4	☐	1250.000	1284.097	1163284.85	0.1876	P	1.3
5	☐	2500.000	2668.433	2310751.70	0.3898	A	7.0
6	☐	5000.000	5036.677	4513966.81	0.7358	A	0.2
7	☐	10000.000	9934.452	8960515.56	1.4514	A	3.7
8	☐			3238.19	0.0006	P	27.7

$$y = 1.4609\text{E-}004 * x + 1.2639\text{E-}005$$

$$R = 0.9998$$

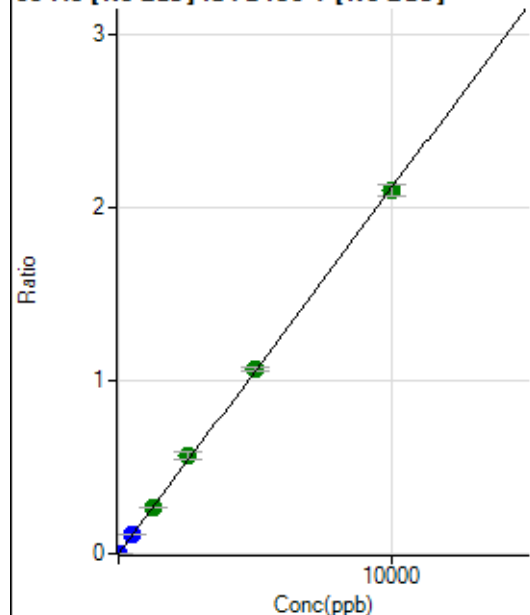
$$DL = 0.06712$$

$$BEC = 0.08651$$

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	43.33	0.0000	P	38.8
2	☐	5.000	4.678	6223.61	0.0010	P	0.6
3	☐	500.000	514.126	682303.78	0.1086	P	0.9
4	☐	1250.000	1266.363	1658434.54	0.2675	A	1.9
5	☐	2500.000	2688.495	3362588.73	0.5678	A	8.8
6	☐	5000.000	5051.699	6545193.45	1.0670	A	1.3
7	☐	10000.000	9924.275	12941544.11	2.0961	A	3.3
8	☐			4467.44	0.0008	P	24.2

$$y = 2.1121\text{E-}004 * x + 7.0508\text{E-}006$$

$$R = 0.9998$$

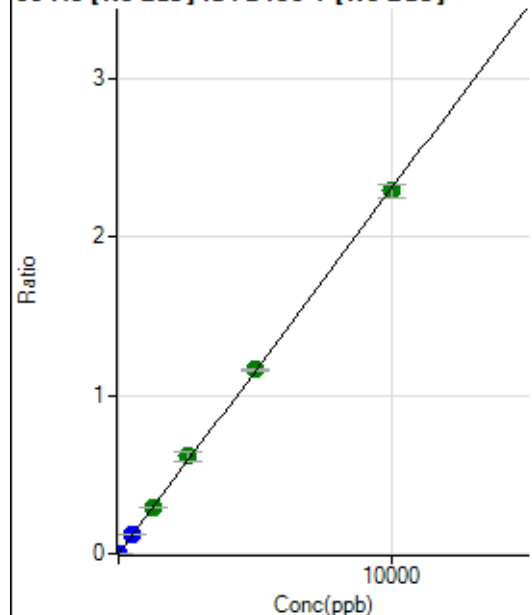
$$DL = 0.03888$$

$$BEC = 0.03338$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	36.67	0.0000	P	9.6
2	☐	5.000	4.885	7087.33	0.0011	P	4.1
3	☐	500.000	515.188	747228.81	0.1189	P	0.6
4	☐	1250.000	1273.219	1822224.00	0.2939	A	2.6
5	☐	2500.000	2677.123	3658453.59	0.6179	A	9.2
6	☐	5000.000	5030.199	7122588.99	1.1611	A	1.9
7	☐	10000.000	9936.958	14160432.01	2.2937	A	3.6
8	☐			9325.33	0.0017	P	14.0

$$y = 2.3082\text{E-}004 * x + 5.9605\text{E-}006$$

$$R = 0.9998$$

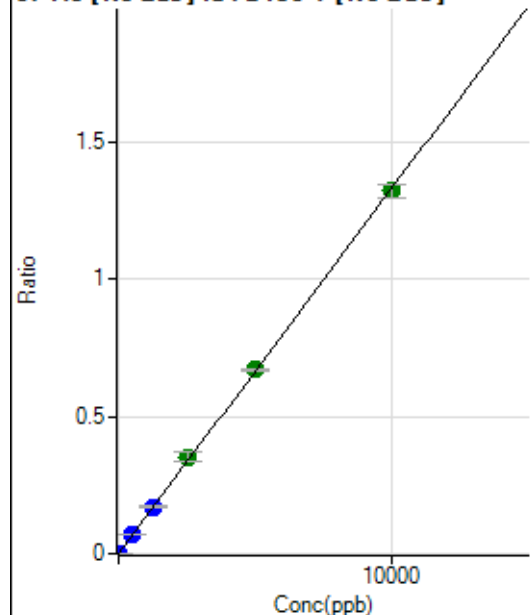
$$DL = 0.007403$$

$$BEC = 0.02582$$

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	18.89	0.0000	P	40.6
2	☐	5.000	4.693	3923.90	0.0006	P	1.2
3	☐	500.000	513.041	428890.05	0.0683	P	1.4
4	☐	1250.000	1284.150	1059389.14	0.1709	P	1.2
5	☐	2500.000	2657.143	2092946.41	0.3535	A	9.1
6	☐	5000.000	5031.851	4106594.17	0.6695	A	1.9
7	☐	10000.000	9939.868	8164182.10	1.3224	A	3.8
8	☐			2760.30	0.0005	P	22.9

$$y = 1.3304\text{E-}004 * x + 3.0670\text{E-}006$$

$$R = 0.9999$$

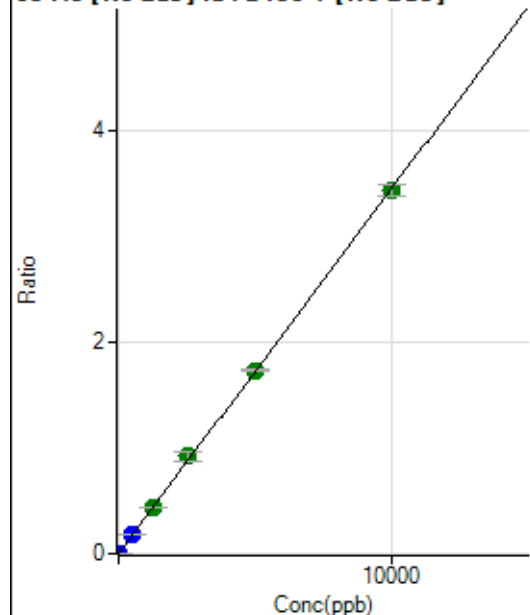
$$DL = 0.02806$$

$$BEC = 0.02305$$

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	21.11	0.0000	P	36.7
2	☐	5.000	4.642	10016.84	0.0016	P	3.1
3	☐	500.000	514.930	1113719.12	0.1773	P	1.0
4	☐	1250.000	1277.583	2726789.52	0.4398	A	1.2
5	☐	2500.000	2662.968	5429530.51	0.9167	A	8.2
6	☐	5000.000	5020.283	10600844.78	1.7281	A	0.8
7	☐	10000.000	9944.922	21136402.46	3.4233	A	3.0
8	☐			6906.25	0.0013	P	27.4

$$y = 3.4422\text{E-}004 * x + 3.4334\text{E-}006$$

$$R = 0.9998$$

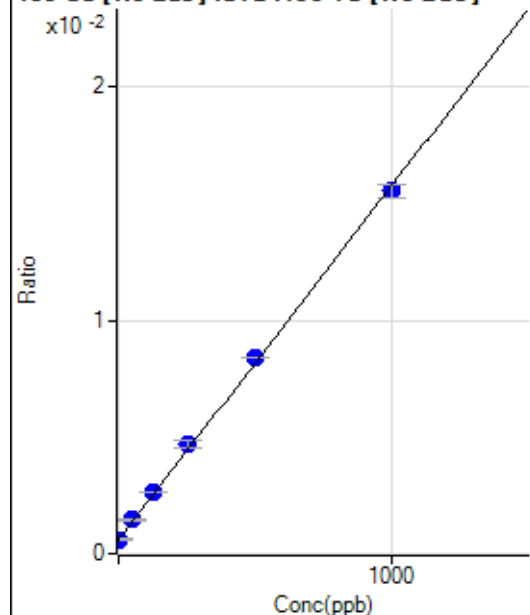
$$DL = 0.011$$

$$BEC = 0.009974$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3002.56	0.0006	P	3.0
2	☐	1.000	1.347	3110.37	0.0006	P	5.8
3	☐	50.000	55.879	7276.34	0.0014	P	2.9
4	☐	125.000	133.553	12970.33	0.0026	P	1.3
5	☐	250.000	270.718	22819.09	0.0047	P	6.1
6	☐	500.000	514.744	42192.23	0.0084	P	0.8
7	☐	1000.000	986.085	78531.76	0.0155	P	3.6
8	☐			2778.08	0.0006	P	2.7

$$y = 1.5149\text{E-}005 * x + 5.9440\text{E-}004$$

$$R = 0.9996$$

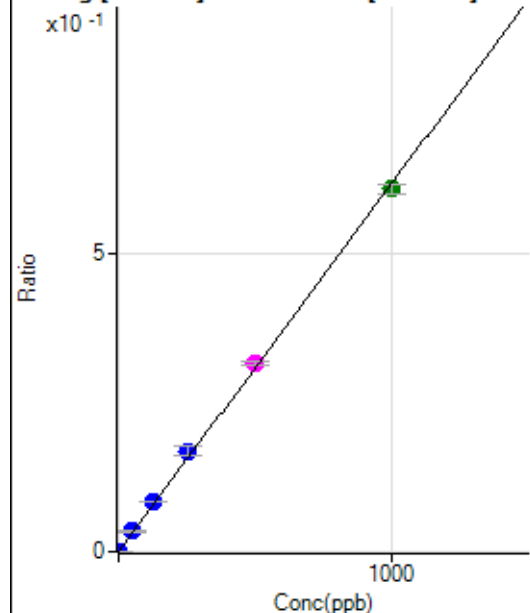
$$DL = 3.547$$

$$BEC = 39.24$$

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	44.44	0.0000	P	16.5
2	☐	1.000	0.996	3155.93	0.0006	P	5.7
3	☐	50.000	54.967	171554.62	0.0340	P	1.0
4	☐	125.000	136.708	418600.36	0.0845	P	0.4
5	☐	250.000	273.537	820197.78	0.1690	P	8.8
6	☐	500.000	512.532	1592219.35	0.3167	M	1.6
7	☐	1000.000	986.138	3080991.59	0.6093	A	2.9
8	☐			1584.55	0.0004	P	14.9

$$y = 6.1789\text{E-}004 * x + 8.7899\text{E-}006$$

$$R = 0.9995$$

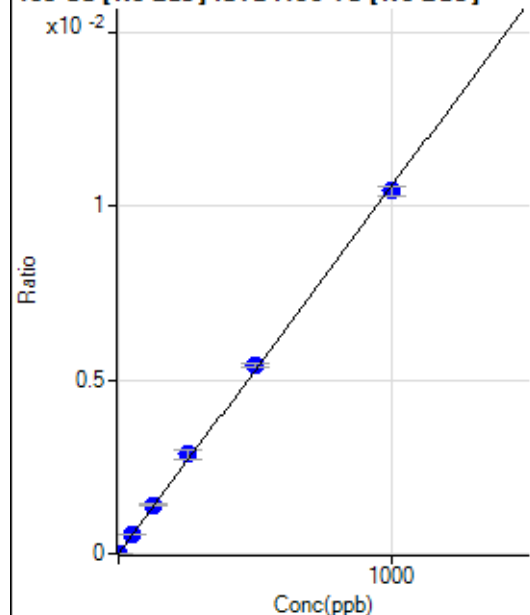
$$DL = 0.007057$$

$$BEC = 0.01423$$

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	7.78	0.0000	P	98.4
2	☐	1.000	0.892	55.55	0.0000	P	47.9
3	☐	50.000	52.636	2819.20	0.0006	P	3.4
4	☐	125.000	131.282	6888.37	0.0014	P	3.2
5	☐	250.000	271.315	13929.02	0.0029	P	9.9
6	☐	500.000	512.136	27243.40	0.0054	P	2.0
7	☐	1000.000	987.686	52835.78	0.0104	P	2.6
8	☐			47.78	0.0000	P	25.0

$$y = 1.0578\text{E-}005 * x + 1.5320\text{E-}006$$

$$R = 0.9996$$

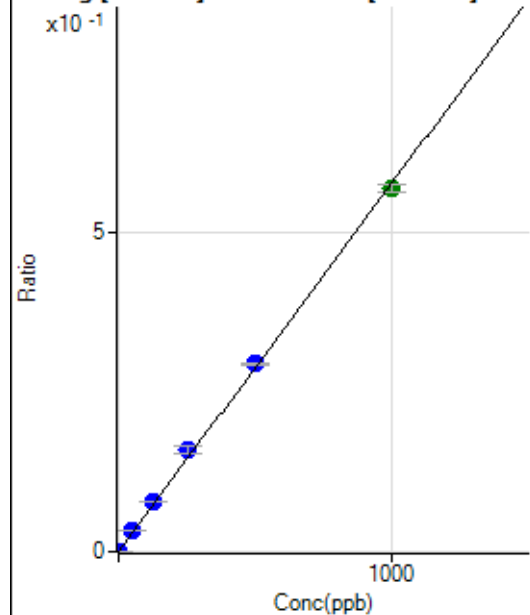
$$DL = 0.4274$$

$$BEC = 0.1448$$

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	3.33	0.0000	P	99.6
2	☐	1.000	1.056	3083.69	0.0006	P	5.2
3	☐	50.000	55.438	161443.81	0.0320	P	1.8
4	☐	125.000	137.250	392189.11	0.0791	P	1.2
5	☐	250.000	275.897	772214.59	0.1591	P	8.4
6	☐	500.000	511.781	1483762.56	0.2951	P	1.1
7	☐	1000.000	985.832	2874871.94	0.5685	A	2.1
8	☐			1470.09	0.0003	P	11.3

$$y = 5.7667\text{E-}004 * x + 6.5752\text{E-}007$$

$$R = 0.9995$$

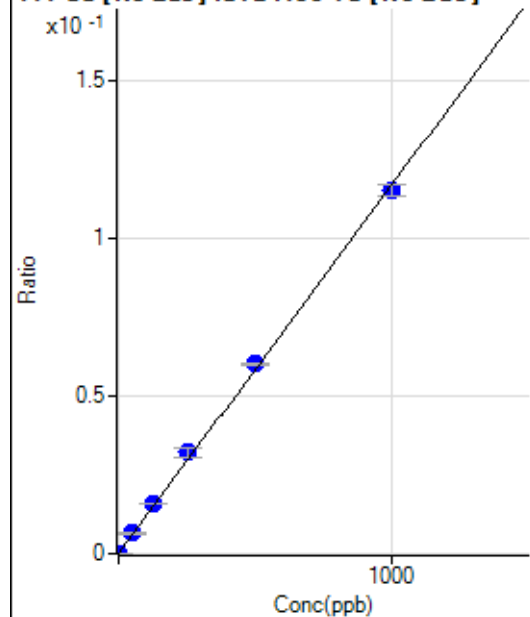
$$DL = 0.003406$$

$$BEC = 0.00114$$

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	300.37	0.0001	P	5.4
2	☐	1.000	1.045	918.83	0.0002	P	5.5
3	☐	50.000	54.593	32545.82	0.0064	P	1.7
4	☐	125.000	136.313	79301.68	0.0160	P	1.4
5	☐	250.000	275.013	156349.56	0.0322	P	9.2
6	☐	500.000	514.551	302876.75	0.0602	P	1.0
7	☐	1000.000	984.828	582742.13	0.1153	P	3.1
8	☐			557.70	0.0001	P	16.1

$$y = 1.1697\text{E-}004 * x + 5.9469\text{E-}005$$

$$R = 0.9995$$

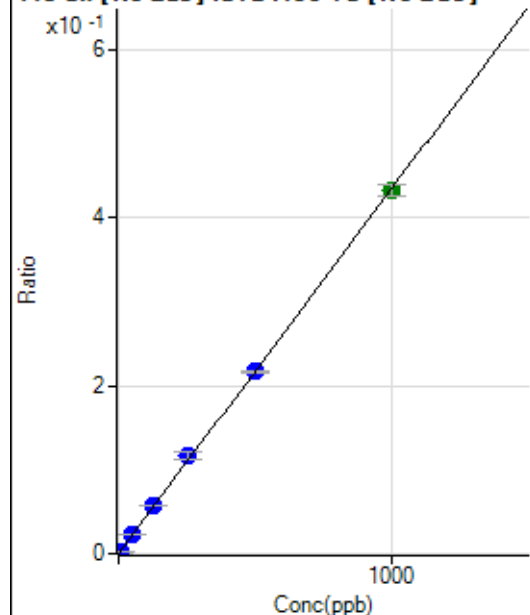
$$DL = 0.0828$$

$$BEC = 0.5084$$

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	675.58	0.0001	P	2.2
2	☐	5.000	4.917	11467.08	0.0023	P	1.5
3	☐	50.000	51.646	113845.92	0.0225	P	1.5
4	☐	125.000	131.912	284304.49	0.0574	P	1.2
5	☐	250.000	268.060	565017.40	0.1165	P	9.1
6	☐	500.000	499.822	1091091.09	0.2170	P	1.0
7	☐	1000.000	994.628	2182998.07	0.4317	A	3.2
8	☐			1749.02	0.0004	P	12.8

$$y = 4.3394\text{E-}004 * x + 1.3374\text{E-}004$$

$$R = 0.9998$$

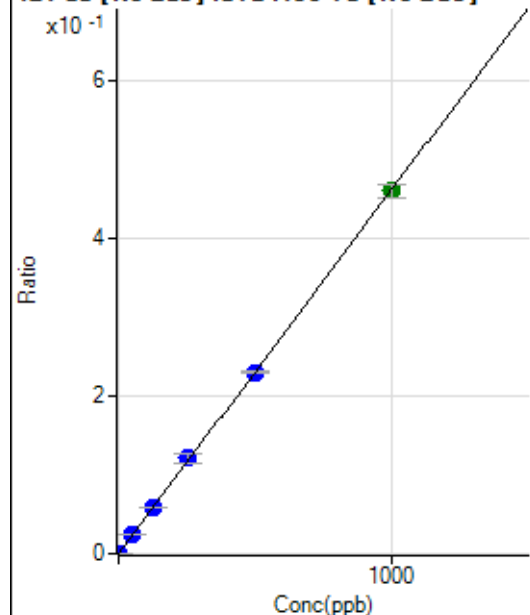
$$DL = 0.02048$$

$$BEC = 0.3082$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11.11	0.0000	P	45.1
2	☐	2.000	1.923	4498.53	0.0009	P	1.8
3	☐	50.000	51.226	119383.81	0.0236	P	2.1
4	☐	125.000	127.304	291110.83	0.0587	P	1.0
5	☐	250.000	261.936	586542.52	0.1209	P	8.9
6	☐	500.000	498.928	1157548.76	0.2302	P	1.1
7	☐	1000.000	997.203	2326858.98	0.4602	A	3.4
8	☐			1685.67	0.0004	P	7.9

$$y = 4.6147\text{E-}004 * x + 2.1947\text{E-}006$$

$$R = 0.9999$$

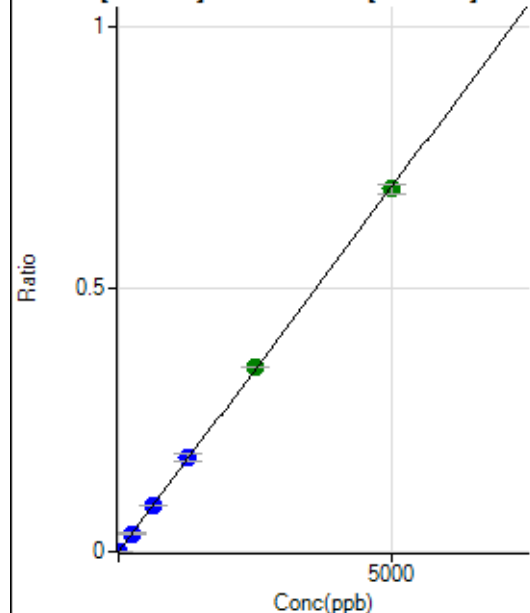
$$DL = 0.006428$$

$$BEC = 0.004756$$

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	1.11	0.0000	P	173.
2	☐	10.000	9.111	6389.27	0.0013	P	4.7
3	☐	250.000	249.584	174783.76	0.0346	P	1.2
4	☐	625.000	627.880	431450.99	0.0871	P	0.6
5	☐	1250.000	1289.791	867963.28	0.1789	P	8.7
6	☐	2500.000	2527.865	1762415.23	0.3506	A	0.6
7	☐	5000.000	4975.782	3489105.33	0.6900	A	2.8
8	☐			2334.66	0.0005	P	9.3

$$y = 1.3868\text{E-}004 * x + 2.2110\text{E-}007$$

$$R = 0.9999$$

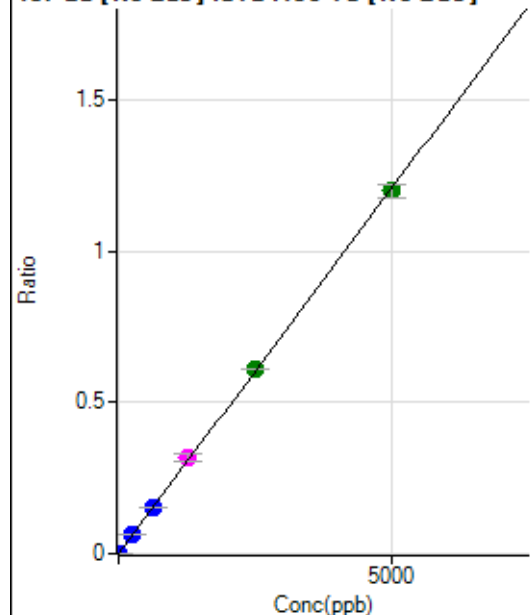
$$DL = 0.008284$$

$$BEC = 0.001594$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	14.45	0.0000	P	47.5
2	☐	10.000	9.370	11465.85	0.0023	P	2.6
3	☐	250.000	254.678	310807.10	0.0615	P	0.9
4	☐	625.000	636.477	762161.58	0.1538	P	0.8
5	☐	1250.000	1324.530	1554412.76	0.3201	M	7.5
6	☐	2500.000	2523.787	3066220.89	0.6099	A	0.6
7	☐	5000.000	4967.807	6069723.10	1.2005	A	3.9
8	☐			4241.79	0.0010	P	10.2

$$y = 2.4166\text{E-}004 * x + 2.8536\text{E-}006$$

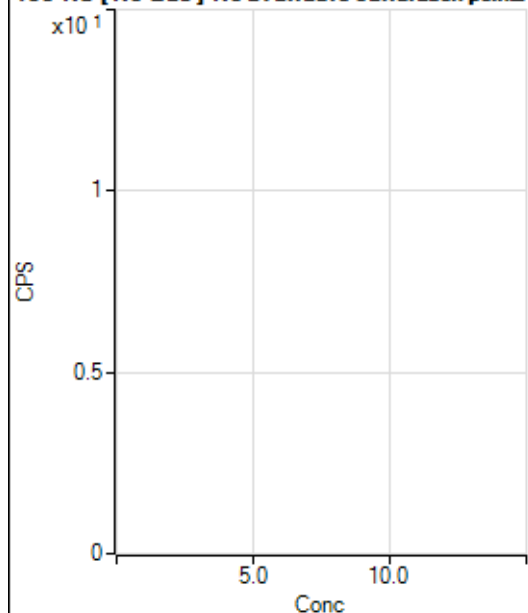
$$R = 0.9999$$

$$DL = 0.01684$$

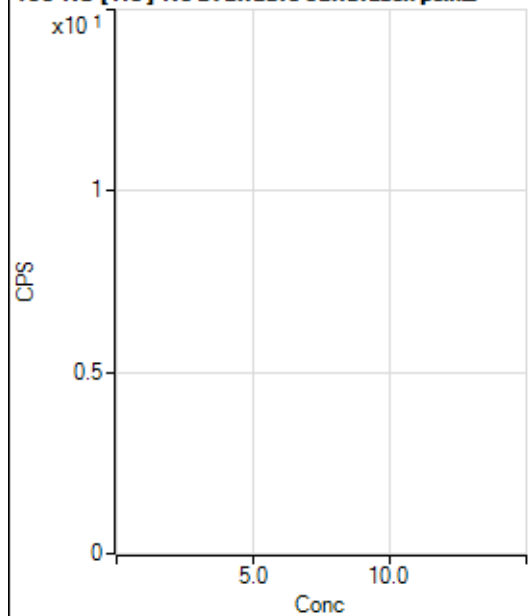
$$BEC = 0.01181$$

Weight: <None>

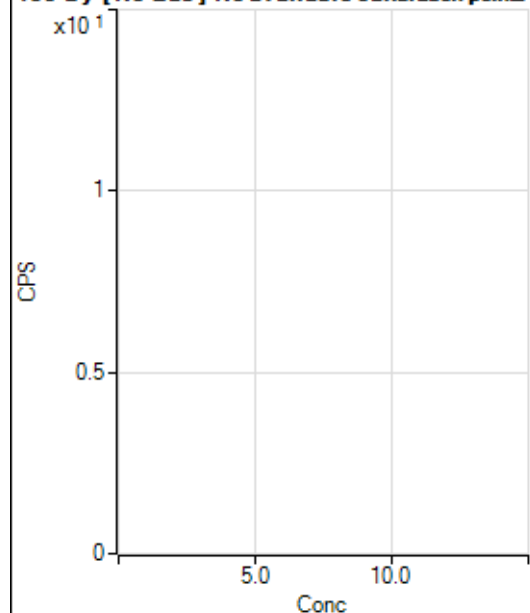
Min Conc: 0

150 Nd [No Gas] No available calibration points

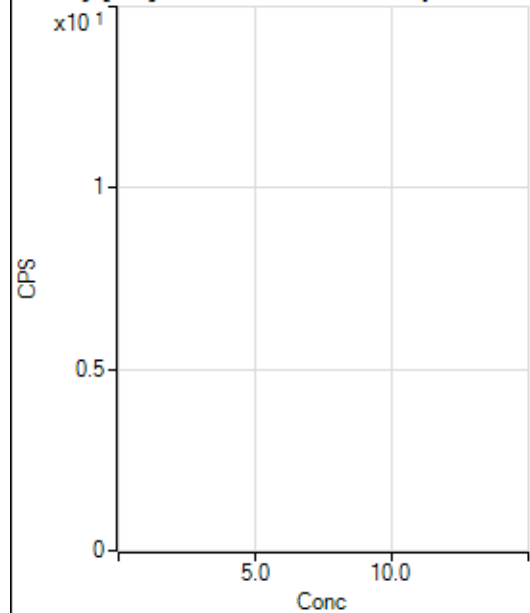
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	50.0
2	☐			2.22		P	86.6
3	☐			48.89		P	3.9
4	☐			110.00		P	15.7
5	☐			230.01		P	10.5
6	☐			437.79		P	2.7
7	☐			876.70		P	1.1
8	☐			20.00		P	28.9

150 Nd [He] No available calibration points

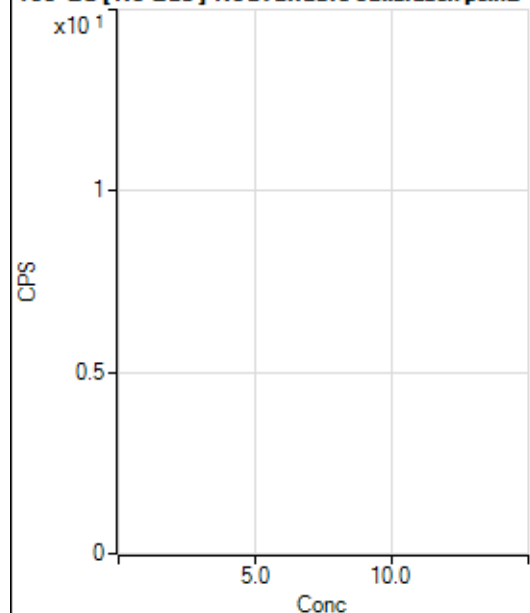
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			20.00		P	16.7
4	☐			15.55		P	44.6
5	☐			46.67		P	18.9
6	☐			84.44		P	13.9
7	☐			192.22		P	15.2
8	☐			22.22		P	37.8

156 Dy [No Gas] No available calibration points

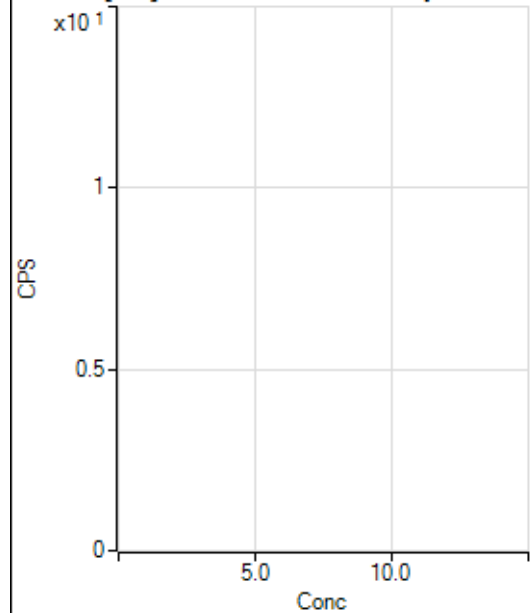
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	69.3
2	☐			4.44		P	43.4
3	☐			20.00		P	16.7
4	☐			70.00		P	17.2
5	☐			64.45		P	16.6
6	☐			197.78		P	23.7
7	☐			271.12		P	10.2
8	☐			604.46		P	16.1

156 Dy [He] No available calibration points

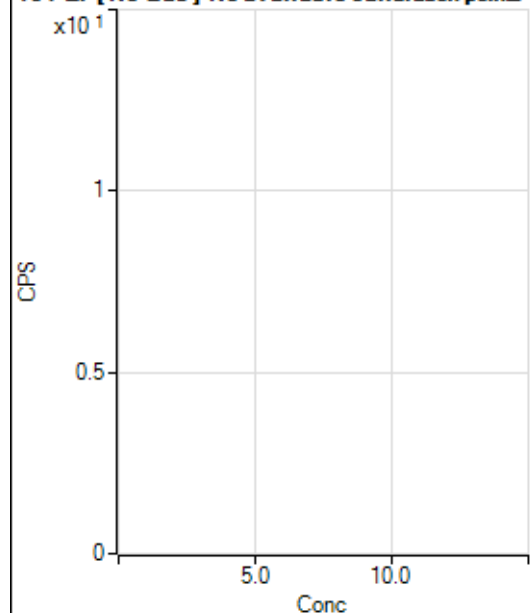
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			2.22		P	173.
3	☐			14.45		P	26.7
4	☐			25.55		P	91.6
5	☐			72.22		P	26.6
6	☐			127.78		P	9.9
7	☐			238.89		P	18.2
8	☐			382.23		P	12.6

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

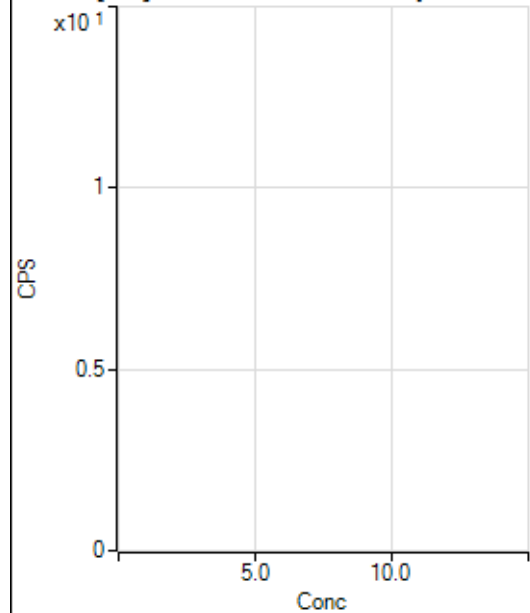
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	103.
2	☐			15.55		P	44.6
3	☐			24.45		P	64.4
4	☐			43.33		P	33.5
5	☐			46.67		P	18.9
6	☐			108.89		P	19.7
7	☐			195.56		P	14.9
8	☐			602.24		P	7.2

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			145.56		P	25.5
2	☐			146.67		P	24.1
3	☐			134.45		P	6.2
4	☐			164.45		P	11.5
5	☐			160.00		P	7.2
6	☐			194.45		P	2.6
7	☐			245.56		P	2.1
8	☐			546.68		P	14.3

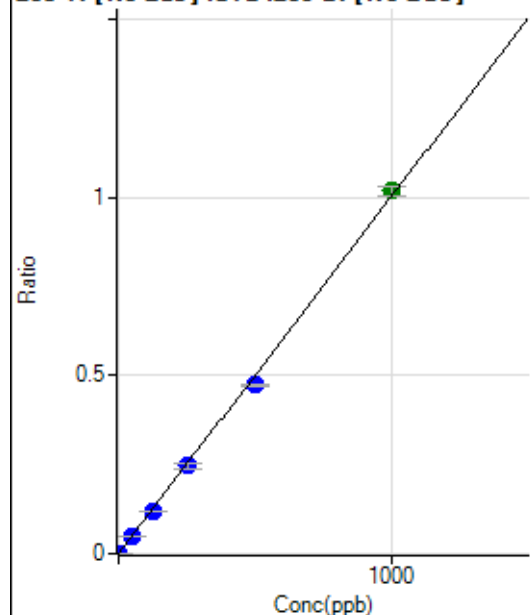
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			34.44		P	5.6
2	☐			42.22		P	37.3
3	☐			45.56		P	22.4
4	☐			25.56		P	30.1
5	☐			42.22		P	47.6
6	☐			64.44		P	44.0
7	☐			92.23		P	15.0
8	☐			65.56		P	2.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	NaN
2	☐			18.89		P	27.0
3	☐			22.22		P	45.8
4	☐			22.22		P	48.2
5	☐			35.55		P	47.2
6	☐			42.22		P	12.1
7	☐			52.22		P	3.7
8	☐			33.33		P	20.0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	105.56	0.0000	P	30.1
2	☐	1.000	0.859	3297.10	0.0009	P	2.0
3	☐	50.000	46.602	170981.42	0.0467	P	0.6
4	☐	125.000	118.010	421222.04	0.1183	P	0.4
5	☐	250.000	245.499	846855.99	0.2460	P	7.0
6	☐	500.000	473.111	1676601.31	0.4740	P	1.0
7	☐	1000.000	1015.613	3525965.47	1.0176	A	2.4
8	☐			813.37	0.0003	P	29.6

$$y = 0.0010 * x + 2.8848E-005$$

$$R = 0.9995$$

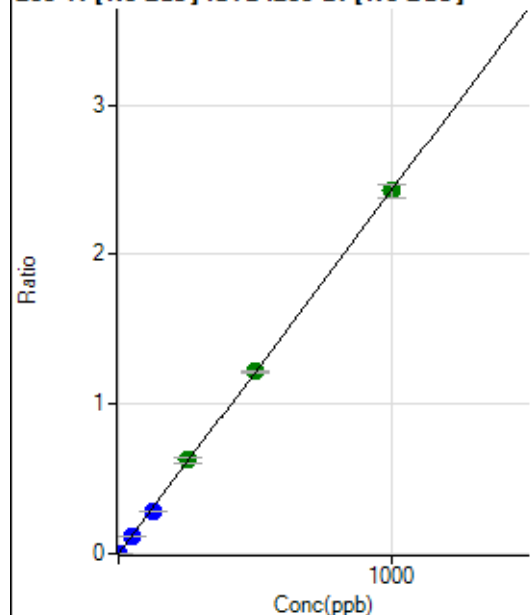
$$DL = 0.02601$$

$$BEC = 0.02879$$

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	213.34	0.0001	P	13.8
2	☐	1.000	0.864	8001.31	0.0022	P	1.1
3	☐	50.000	46.121	410196.97	0.1121	P	0.7
4	☐	125.000	116.580	1008791.94	0.2832	P	0.7
5	☐	250.000	258.029	2157611.24	0.6268	A	7.1
6	☐	500.000	500.780	4302264.04	1.2164	A	1.3
7	☐	1000.000	998.849	8405434.60	2.4262	A	3.4
8	☐			2031.31	0.0007	P	40.3

$$y = 0.0024 * x + 5.8286E-005$$

$$R = 0.9999$$

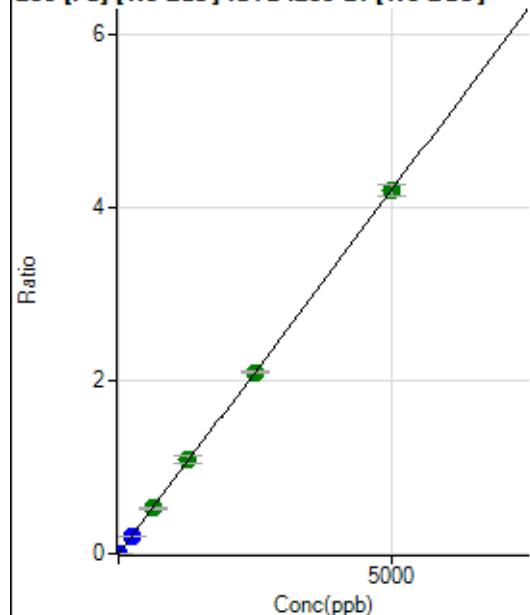
$$DL = 0.009907$$

$$BEC = 0.024$$

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	163.34	0.0000	P	19.5
2	☐	1.000	0.866	2864.78	0.0008	P	2.2
3	☐	250.000	231.123	711194.22	0.1943	P	1.0
4	☐	625.000	623.282	1866319.03	0.5240	A	1.0
5	☐	1250.000	1299.551	3759539.46	1.0924	A	7.7
6	☐	2500.000	2496.032	7420872.87	2.0982	A	1.5
7	☐	5000.000	4990.755	14534336.17	4.1952	A	3.3
8	☐			4646.43	0.0016	P	23.6

$$y = 8.4059\text{E-}004 * x + 4.4610\text{E-}005$$

$$R = 0.9999$$

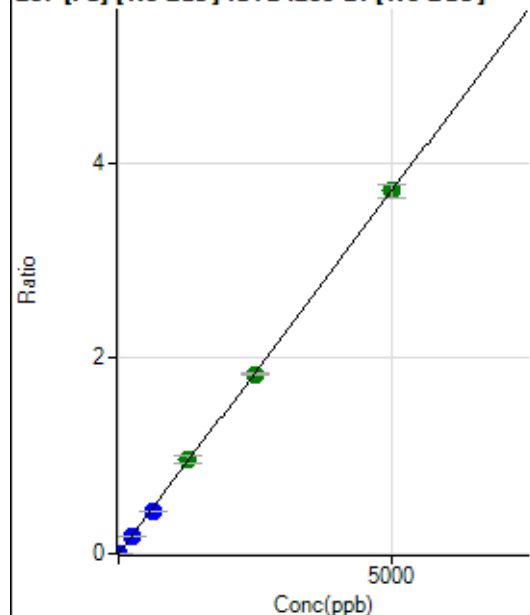
$$DL = 0.03109$$

$$BEC = 0.05307$$

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	156.67	0.0000	P	13.0
2	☐	1.000	0.827	2435.80	0.0007	P	1.5
3	☐	250.000	229.104	622773.94	0.1702	P	0.4
4	☐	625.000	577.705	1528069.39	0.4290	P	0.4
5	☐	1250.000	1310.649	3348621.41	0.9733	A	8.2
6	☐	2500.000	2478.576	6509798.93	1.8405	A	0.5
7	☐	5000.000	5002.507	12868994.94	3.7147	A	3.5
8	☐			3935.09	0.0014	P	23.8

$$y = 7.4255\text{E-}004 * x + 4.2788\text{E-}005$$

$$R = 0.9998$$

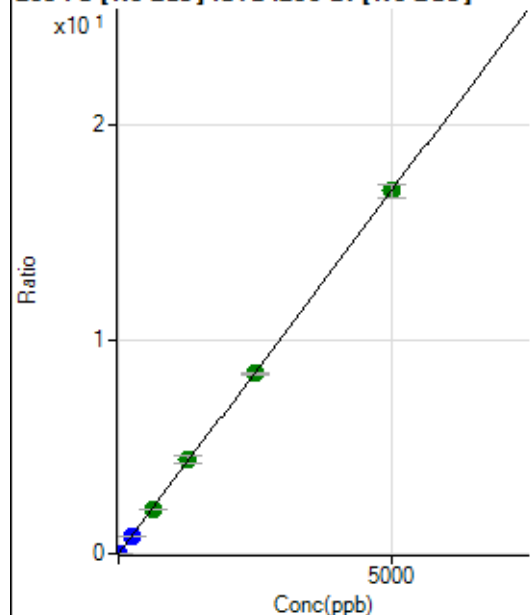
$$DL = 0.02245$$

$$BEC = 0.05762$$

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	691.13	0.0002	P	6.1
2	☐	1.000	0.843	11287.50	0.0030	P	2.0
3	☐	250.000	229.806	2849433.81	0.7786	P	0.6
4	☐	625.000	608.962	7347415.76	2.0628	A	0.7
5	☐	1250.000	1299.352	15142376.58	4.4013	A	8.2
6	☐	2500.000	2482.600	29742063.93	8.4091	A	0.9
7	☐	5000.000	4999.377	58660543.98	16.9337	A	3.9
8	☐			18079.51	0.0064	P	22.5

$$y = 0.0034 * x + 1.8876E-004$$

$$R = 0.9999$$

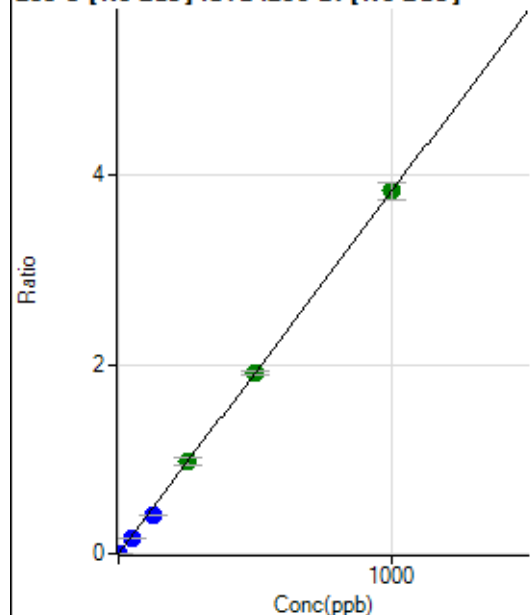
$$DL = 0.01012$$

$$BEC = 0.05573$$

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	4.44	0.0000	P	114.
2	☐	1.000	0.785	11150.33	0.0030	P	3.2
3	☐	50.000	42.506	595582.10	0.1627	P	0.6
4	☐	125.000	107.429	1464992.02	0.4113	P	0.9
5	☐	250.000	256.325	3377363.94	0.9814	A	7.7
6	☐	500.000	498.588	6751671.50	1.9090	A	1.7
7	☐	1000.000	1001.696	13284128.97	3.8352	A	4.6
8	☐			2390.28	0.0008	P	41.6

$$y = 0.0038 * x + 1.2156E-006$$

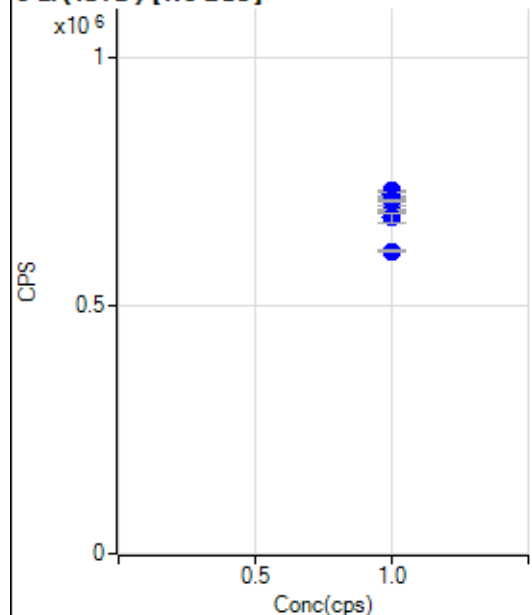
$$R = 0.9998$$

$$DL = 0.001095$$

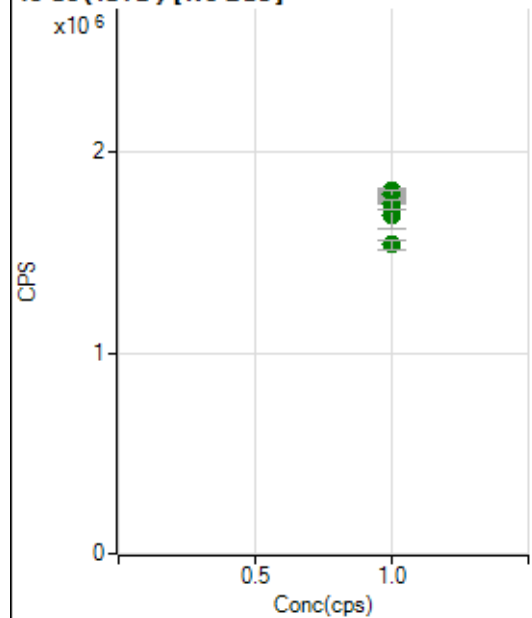
$$BEC = 0.0003175$$

Weight: <None>

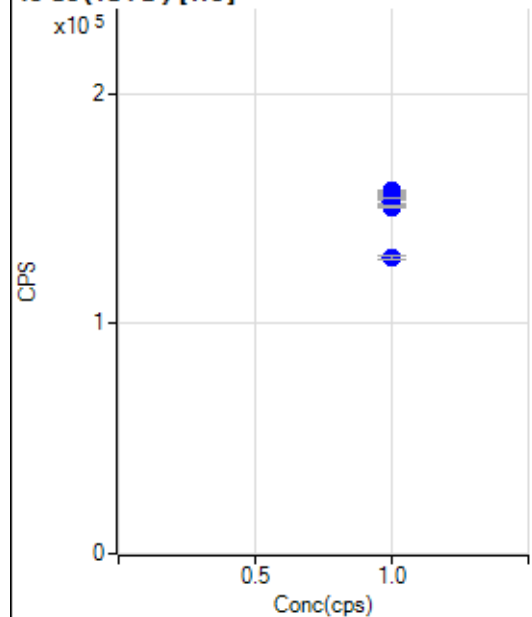
Min Conc: 0

6 Li (ISTD) [No Gas]

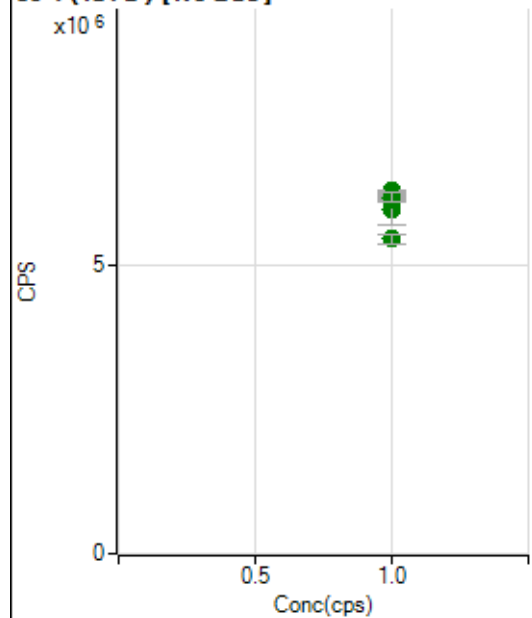
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		714819.04		P	0.7
2	☐	1.000		730423.68		P	0.3
3	☐	1.000		723861.50		P	0.6
4	☐	1.000		711021.31		P	0.7
5	☐	1.000		683641.80		P	5.4
6	☐	1.000		690926.33		P	0.7
7	☐	1.000		676982.32		P	2.7
8	☐	1.000		609734.97		P	0.9

45 Sc (ISTD) [No Gas]

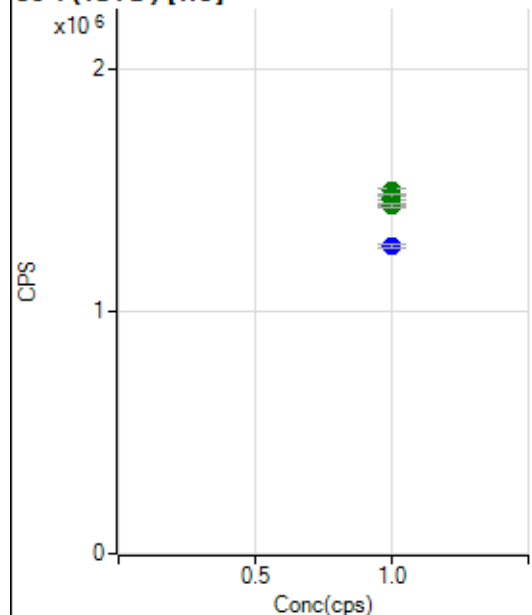
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1760385.72		A	0.4
2	☐	1.000		1790073.60		A	0.8
3	☐	1.000		1807251.94		A	1.8
4	☐	1.000		1789363.98		A	2.2
5	☐	1.000		1683562.93		A	7.6
6	☐	1.000		1746732.67		A	0.5
7	☐	1.000		1741033.91		A	2.7
8	☐	1.000		1538644.61		A	2.6

45 Sc (ISTD) [He]

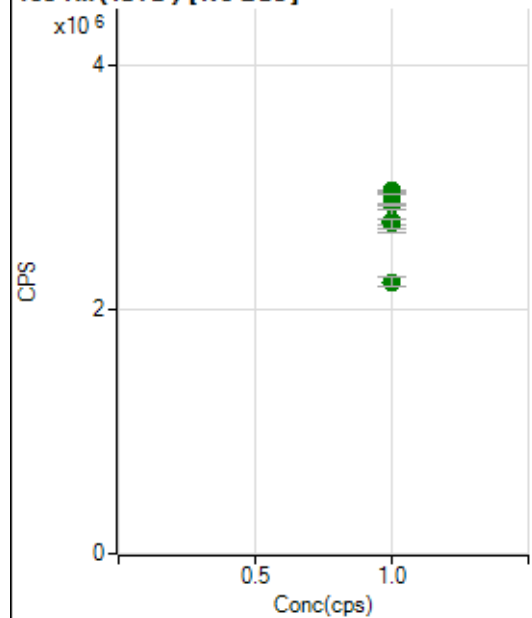
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		155506.60		P	0.6
2	☐	1.000		157629.63		P	0.5
3	☐	1.000		156047.77		P	0.8
4	☐	1.000		154192.10		P	1.0
5	☐	1.000		153110.71		P	1.7
6	☐	1.000		150762.56		P	0.6
7	☐	1.000		150593.36		P	0.5
8	☐	1.000		128639.25		P	0.9

89 Y (ISTD) [No Gas]

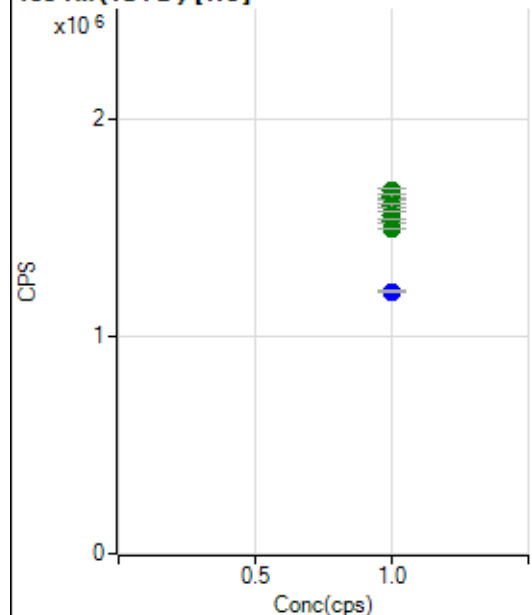
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6153483.24		A	0.5
2	☐	1.000		6254702.41		A	1.3
3	☐	1.000		6283181.92		A	0.9
4	☐	1.000		6200976.37		A	1.1
5	☐	1.000		5950099.53		A	8.2
6	☐	1.000		6134578.31		A	0.6
7	☐	1.000		6177148.31		A	2.3
8	☐	1.000		5446981.72		A	3.5

89 Y(ISTD) [He]

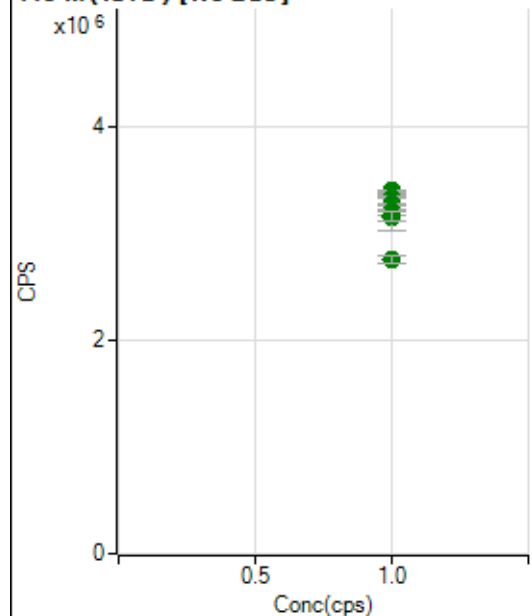
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1484381.40		A	0.3
2	☐	1.000		1497431.06		A	1.2
3	☐	1.000		1477149.72		A	0.6
4	☐	1.000		1468698.71		A	0.6
5	☐	1.000		1457519.98		A	3.1
6	☐	1.000		1435543.75		A	1.0
7	☐	1.000		1434411.01		A	1.0
8	☐	1.000		1273502.82		P	1.2

103 Rh(ISTD) [No Gas]

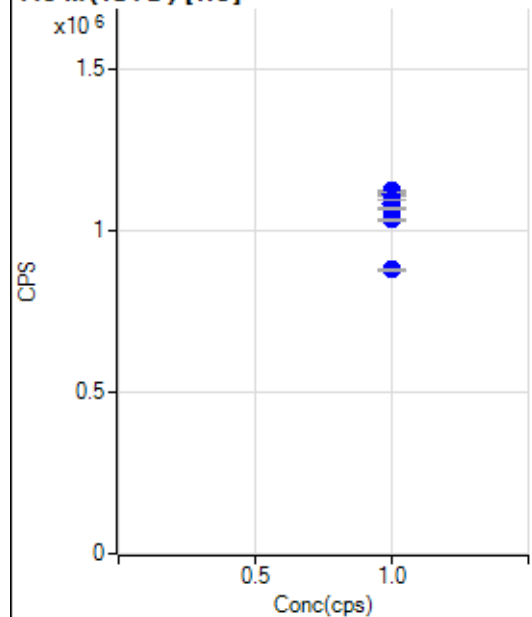
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2960063.67		A	1.3
2	☐	1.000		2973965.16		A	0.8
3	☐	1.000		2943208.77		A	0.1
4	☐	1.000		2863139.23		A	0.2
5	☐	1.000		2727645.08		A	6.6
6	☐	1.000		2714848.92		A	1.7
7	☐	1.000		2707421.54		A	3.2
8	☐	1.000		2230155.91		A	3.7

103 Rh (ISTD) [He]

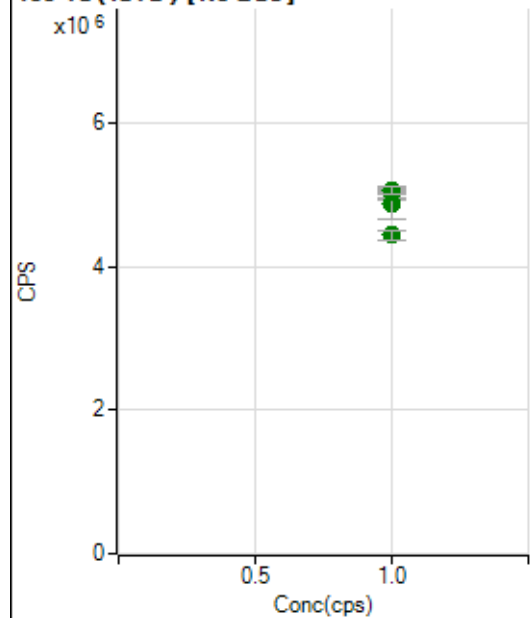
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1650011.16		A	1.3
2	☐	1.000		1673187.06		A	1.8
3	☐	1.000		1642717.58		A	1.8
4	☐	1.000		1608060.72		A	1.0
5	☐	1.000		1560663.54		A	2.7
6	☐	1.000		1536413.85		A	1.0
7	☐	1.000		1497991.37		A	0.2
8	☐	1.000		1209766.47		P	0.9

115 In (ISTD) [No Gas]

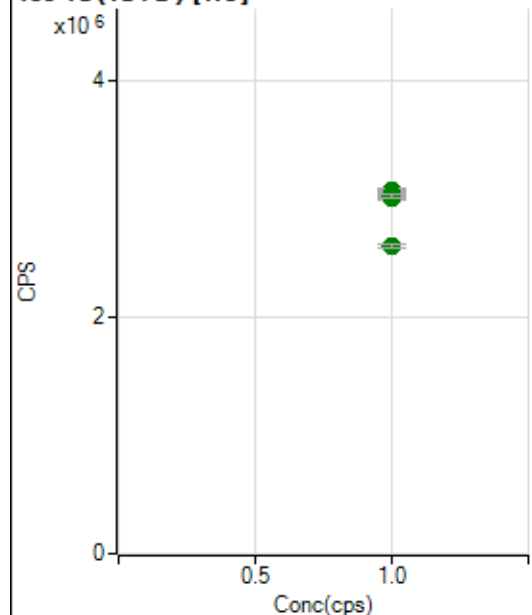
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3357841.84		A	0.7
2	☐	1.000		3393358.86		A	0.7
3	☐	1.000		3333237.05		A	0.6
4	☐	1.000		3268587.47		A	0.6
5	☐	1.000		3147092.93		A	7.6
6	☐	1.000		3193988.36		A	1.5
7	☐	1.000		3157264.86		A	2.6
8	☐	1.000		2756722.20		A	2.9

115 In (ISTD) [He]

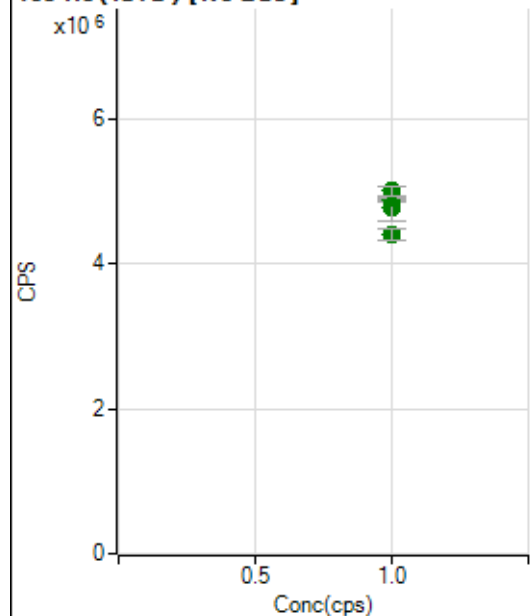
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1108043.50		P	0.5
2	☐	1.000		1122593.80		P	0.1
3	☐	1.000		1112143.50		P	0.8
4	☐	1.000		1096393.76		P	0.2
5	☐	1.000		1082796.17		P	2.5
6	☐	1.000		1066169.09		P	0.5
7	☐	1.000		1033358.47		P	0.2
8	☐	1.000		878419.66		P	1.0

159 Tb (ISTD) [No Gas]

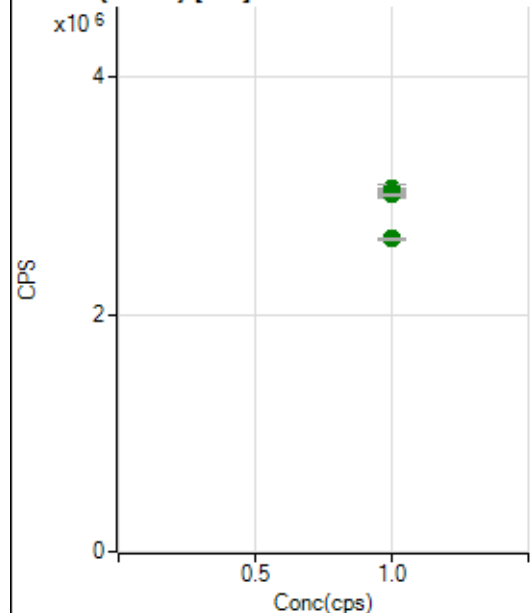
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5052158.32		A	0.8
2	☐	1.000		5057541.04		A	1.2
3	☐	1.000		5049761.11		A	0.2
4	☐	1.000		4955031.14		A	0.4
5	☐	1.000		4876380.55		A	8.4
6	☐	1.000		5027391.45		A	0.3
7	☐	1.000		5058335.93		A	2.0
8	☐	1.000		4447601.50		A	3.1

159 Tb (ISTD) [He]

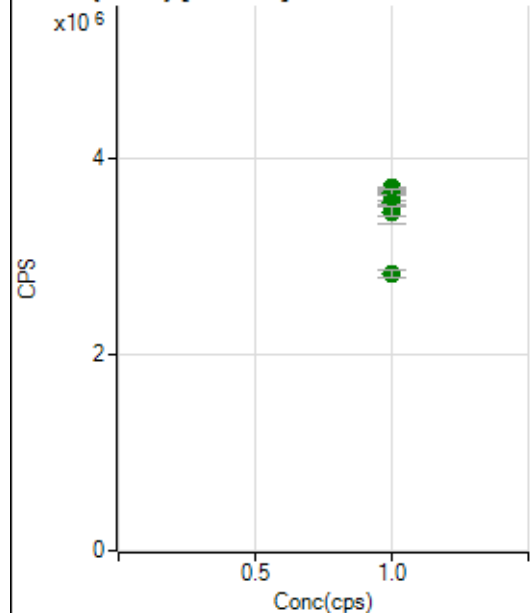
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3014084.02		A	0.8
2	☐	1.000		3071360.09		A	1.3
3	☐	1.000		3049284.58		A	1.4
4	☐	1.000		3015817.77		A	0.7
5	☐	1.000		3027960.20		A	1.7
6	☐	1.000		3041817.59		A	0.3
7	☐	1.000		3024811.86		A	1.0
8	☐	1.000		2607818.78		A	1.2

165 Ho (ISTD) [No Gas]

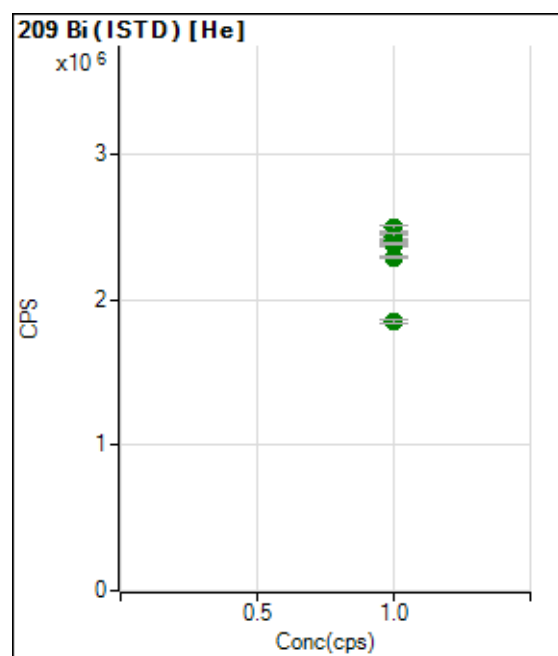
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4863072.95		A	0.7
2	☐	1.000		4923261.11		A	0.3
3	☐	1.000		4896795.38		A	0.1
4	☐	1.000		4880127.95		A	1.5
5	☐	1.000		4774970.00		A	7.2
6	☐	1.000		4919359.61		A	0.9
7	☐	1.000		5006604.54		A	2.9
8	☐	1.000		4398145.39		A	3.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3006082.56		A	1.3
2	☐	1.000		3057158.67		A	0.5
3	☐	1.000		3016541.76		A	1.6
4	☐	1.000		3038502.39		A	1.1
5	☐	1.000		3047411.17		A	3.5
6	☐	1.000		3037676.31		A	0.9
7	☐	1.000		3006362.14		A	0.8
8	☐	1.000		2637607.48		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3661697.93		A	0.4
2	☐	1.000		3708226.58		A	0.8
3	☐	1.000		3659790.16		A	1.4
4	☐	1.000		3561696.23		A	0.9
5	☐	1.000		3453626.55		A	6.9
6	☐	1.000		3536902.20		A	0.4
7	☐	1.000		3466599.29		A	2.8
8	☐	1.000		2833845.10		A	3.2



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2448404.79		A	0.7
2	☐	1.000		2492324.82		A	1.4
3	☐	1.000		2435353.97		A	2.0
4	☐	1.000		2408782.94		A	0.5
5	☐	1.000		2407913.70		A	3.7
6	☐	1.000		2382682.00		A	0.3
7	☐	1.000		2291912.41		A	0.3
8	☐	1.000		1848532.12		A	0.9

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7052623-MS.b
Acq. Date-Time 2023-05-26 12:50:34
Report Comment ---
Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		2967	29668.86			1.078	5.000
24		36106	361057.01			0.585	5.000
25		4966	49661.34			0.241	5.000
26		5737	57365.70			0.297	5.000
59		25953	259529.91			0.669	5.000
113		3853	38527.85			0.753	5.000
115		48093	480932.14			0.932	5.000
206		14742	147418.09			1.180	5.000
207		13565	135649.33			1.531	5.000
208		31467	314671.33			1.384	5.000
220		0	0.90			82.402	

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

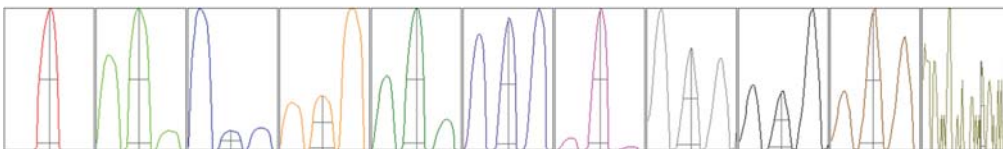
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3003	2987	2969	2919	2956
24	36291	36258	36227	35892	35860
25	4968	4979	4973	4948	4962
26	5742	5752	5751	5719	5718
59	25683	26116	26026	26057	25883
113	3805	3857	3864	3883	3855
115	47479	48224	48710	48123	47930
206	14443	14829	14825	14874	14737
207	13202	13601	13653	13727	13641
208	30705	31556	31704	31782	31588

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5274.11	9.05	8.90 - 9.10	
24	57850.33	23.95	23.90 - 24.10	
25	7761.46	24.95	24.90 - 25.10	
26	8909.90	25.95	25.90 - 26.10	
59	48035.51	59.05	58.90 - 59.10	
113	8163.50	113.05	112.90 - 113.10	
115	102128.83	115.05	114.90 - 115.10	
206	31119.50	206.00	205.90 - 206.10	
207	27615.72	206.95	206.90 - 207.10	
208	65843.16	207.95	207.90 - 208.10	
220	0.25	220.50	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.742	0.900	
24	0.66	0.790	0.900	
25	0.67	0.821	0.900	
26	0.67	0.832	0.900	
59	0.56	0.734	0.900	
113	0.49	0.677	0.900	
115	0.48	0.680	0.900	
206	0.48	0.776	0.900	
207	0.49	0.778	0.900	
208	0.48	0.807	0.900	
220	0.09	0.144		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.6 V	Deflect	17.2 V
Extract 2	-80.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	123	Axis Gain	1.0001	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-1.4 mm	Torch V	1.2 mm
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EM

Discriminator	3.2 mV	Analog HV	2294 V	Pulse HV	1644 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		9005	90051.32			0.599	
89		13664	136636.65			0.320	
205		12729	127285.50			0.335	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	9075	9005	9006	9017	8924
89	13714	13661	13672	13677	13594
205	12736	12656	12745	12769	12737

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.0 V	Deflect	3.6 V
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US EPA Tune Check Report

Extract 2	-70.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-45 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	160 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0001	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-1.4 mm	Torch V	1.2 mm
---------	---------	---------	--------

EM

Discriminator	3.2 mV	Analog HV	2294 V	Pulse HV	1644 V
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