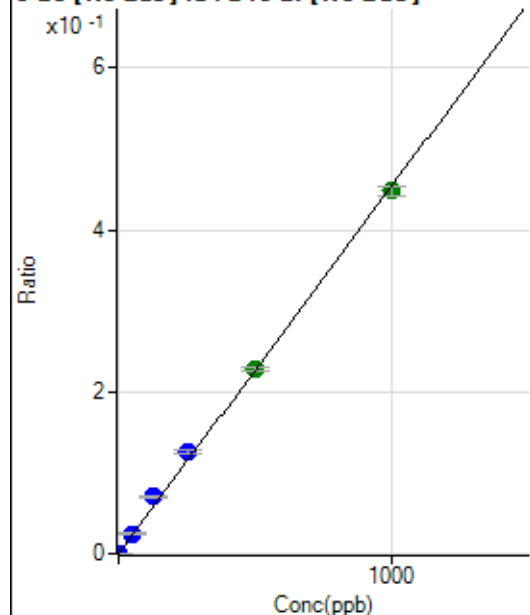


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8071621 MS .b\
Analysis File: P8071621 MS .batch.bin
DA Date-Time: 2021-07-19 16:13:32
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-07-16 12:38:21
2	004CAL.S.d	S01	2021-07-16 12:41:26
3	005CAL.S.d	S02	2021-07-16 12:44:29
4	006CAL.S.d	S03	2021-07-16 12:47:35
5	007CAL.S.d	S04	2021-07-16 12:50:39
6	008CAL.S.d	S05	2021-07-16 12:53:44
7	009CAL.S.d	S06	2021-07-16 12:56:48
8	010CAL.S.d	S07	2021-07-16 12:59:53
9	011CAL.S.d	S08	2021-07-16 13:02:56

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.67	0.0000	P	9.8
2	☐	0.100	0.100	321.27	0.0000	P	10.7
3	☐	1.000	1.089	3252.39	0.0005	P	1.3
4	☐	50.000	54.345	166128.47	0.0247	P	2.5
5	☐	125.000	155.978	472367.59	0.0708	P	3.5
6	☐	250.000	276.037	837577.52	0.1252	P	3.2
7	☐	500.000	503.050	1556344.13	0.2282	A	1.5
8	☐	1000.000	987.876	3002045.80	0.4481	A	2.8
9	☐			1090.50	0.0002	P	18.1

$$y = 4.5363\text{E-}004 * x + 3.4917\text{E-}006$$

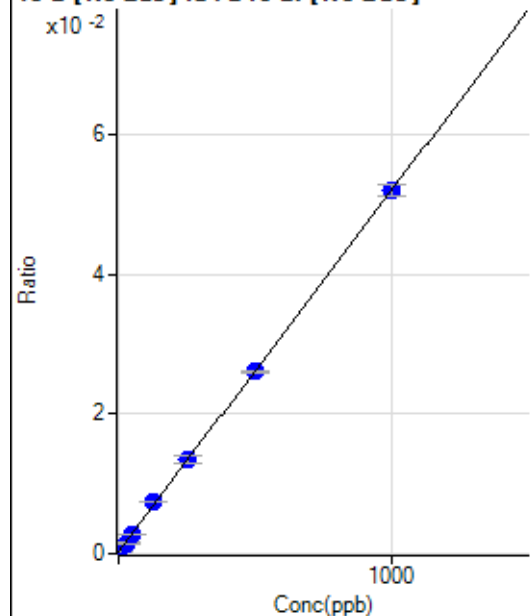
$$R = 0.9992$$

$$DL = 0.002254$$

$$BEC = 0.007697$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1980.42	0.0003	P	3.1
2	☐	2.500	1.707	2584.39	0.0004	P	6.2
3	☐	25.000	22.903	9734.00	0.0015	P	5.2
4	☐	50.000	47.668	18657.47	0.0028	P	4.9
5	☐	125.000	138.947	50015.43	0.0075	P	1.6
6	☐	250.000	254.532	89964.93	0.0135	P	6.5
7	☐	500.000	497.425	177471.36	0.0260	P	1.9
8	☐	1000.000	998.582	347957.17	0.0519	P	3.1
9	☐			31365.29	0.0047	P	11.6

$$y = 5.1666\text{E-}005 * x + 3.0524\text{E-}004$$

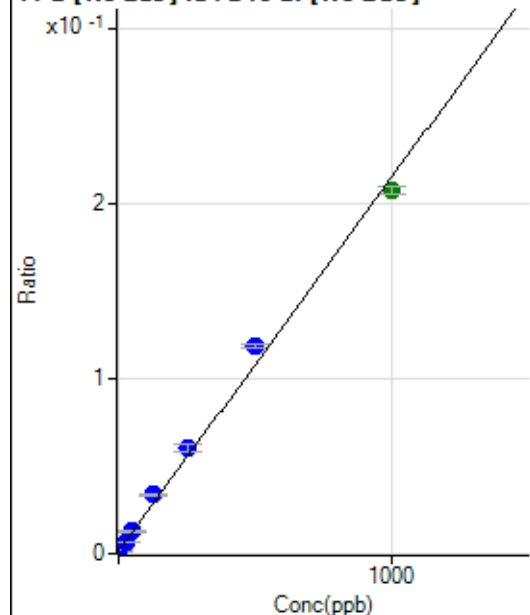
$$R = 0.9999$$

$$DL = 0.5503$$

$$BEC = 5.908$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8838.92	0.0014	P	2.6
2	☐	2.500	2.013	11773.72	0.0018	P	1.3
3	☐	25.000	25.187	44125.38	0.0067	P	5.5
4	☐	50.000	53.176	85806.69	0.0127	P	3.8
5	☐	125.000	151.874	226141.17	0.0338	P	1.7
6	☐	250.000	278.250	406896.14	0.0609	P	7.1
7	☐	500.000	549.817	811512.80	0.1189	P	1.1
8	☐	1000.000	964.507	1391637.75	0.2076	A	2.0
9	☐			143679.81	0.0216	P	12.8

$$y = 2.1383E-004 * x + 0.0014$$

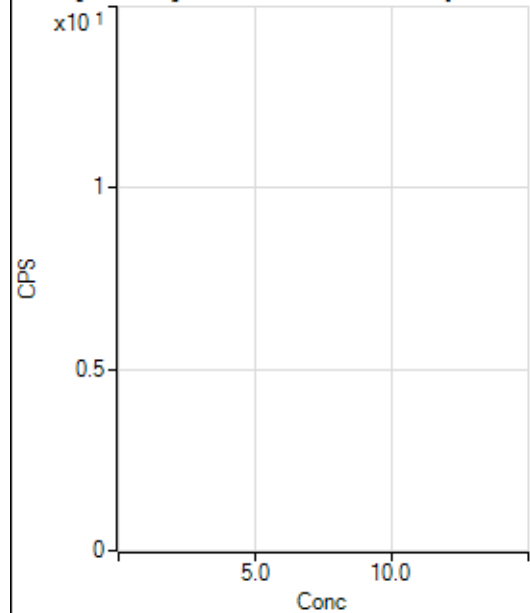
$$R = 0.9974$$

$$DL = 0.498$$

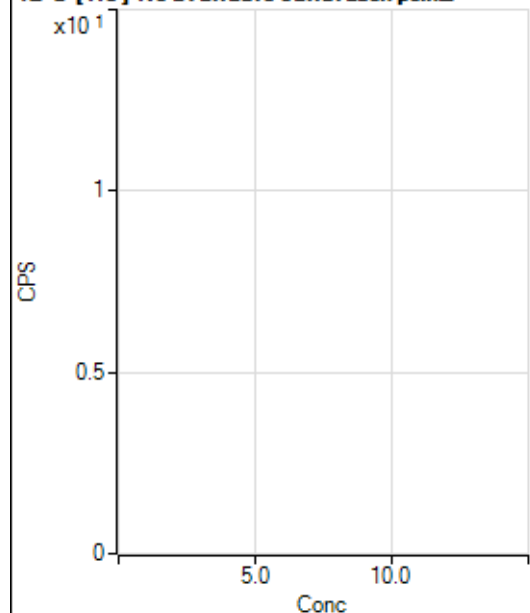
$$BEC = 6.371$$

Weight: <None>

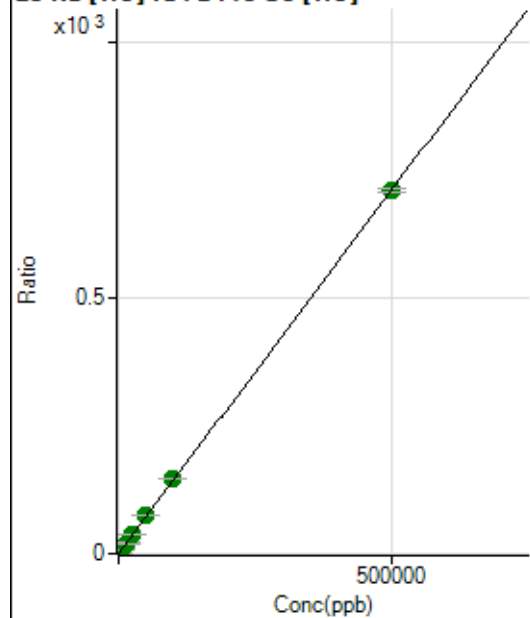
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5015973.07		A	1.8
2	☐			5132689.14		A	0.8
3	☐			5129847.60		A	0.4
4	☐			6536299.67		A	2.7
5	☐			7070957.63		A	2.6
6	☐			7125744.78		A	3.0
7	☐			7423038.97		A	3.2
8	☐			7740023.61		A	2.2
9	☐			7820845.92		A	3.7

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			46850.43		P	1.3
2	☐			48915.34		P	1.0
3	☐			49673.92		P	2.3
4	☐			66788.66		P	0.4
5	☐			72741.28		P	1.4
6	☐			73534.65		P	0.6
7	☐			78292.33		P	0.5
8	☐			83674.63		P	1.6
9	☐			87876.56		P	1.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	31125.46	0.1529	P	2.7
2	☐	50.000	50.353	46034.27	0.2244	P	2.5
3	☐	500.000	514.594	184728.62	0.8841	P	0.3
4	☐	5000.000	4994.709	1543399.88	7.2500	A	1.1
5	☐	12500.000	14412.463	4273231.48	20.6321	A	0.5
6	☐	25000.000	26033.703	7515802.25	37.1452	A	0.9
7	☐	50000.000	52373.217	15143112.32	74.5721	A	1.8
8	☐	100000.00	102684.88	30036652.76	146.0619	A	1.2
9	☐	500000.00	499126.24	148925103.3	709.3814	A	1.1

$$y = 0.0014 * x + 0.1529$$

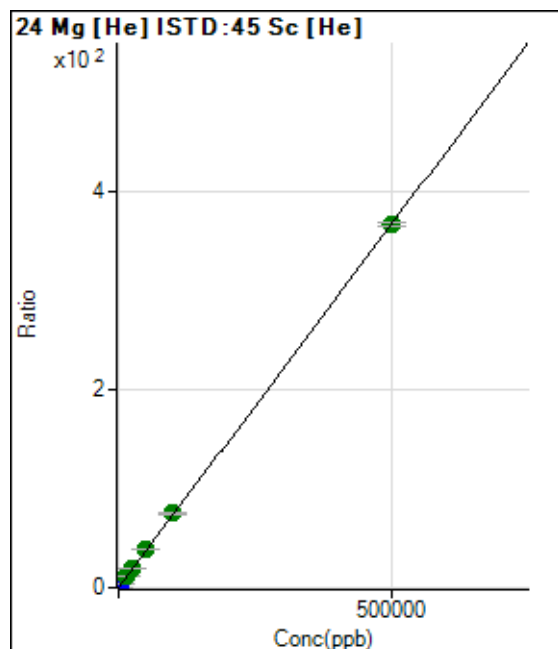
$$R = 1.0000$$

$$DL = 8.665$$

$$BEC = 107.6$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	94.45	0.0005	P	20.1
2	☐	50.000	49.087	7499.37	0.0366	P	4.0
3	☐	500.000	521.097	80142.48	0.3835	P	0.1
4	☐	5000.000	5397.314	844804.50	3.9682	P	0.7
5	☐	12500.000	14693.939	2237437.42	10.8025	A	0.7
6	☐	25000.000	26693.351	3970395.01	19.6237	A	0.8
7	☐	50000.000	52920.110	7898805.90	38.9040	A	2.6
8	☐	100000.00	102338.79	15471369.10	75.2335	A	1.0
9	☐	500000.00	499096.72	77028669.78	366.9049	A	1.1

$$y = 7.3514\text{E-}004 * x + 4.6487\text{E-}004$$

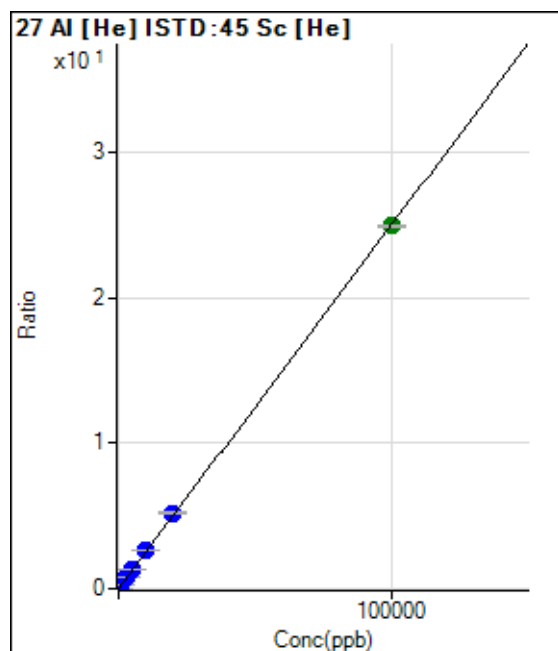
$$R = 1.0000$$

$$DL = 0.3811$$

$$BEC = 0.6324$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	88.32	0.0004	P	7.3
2	☐	2.000	2.423	212.89	0.0010	P	13.6
3	☐	20.000	22.395	1259.90	0.0060	P	0.4
4	☐	1000.000	1063.010	56636.33	0.2660	P	0.9
5	☐	2500.000	2993.152	154987.32	0.7483	P	0.7
6	☐	5000.000	5421.375	274164.56	1.3551	P	0.8
7	☐	10000.000	10620.022	538923.60	2.6540	P	1.3
8	☐	20000.000	20810.588	1069411.95	5.2003	P	1.1
9	☐	100000.00	99741.852	5232499.80	24.9227	A	0.2

$$y = 2.4987\text{E-}004 * x + 4.3380\text{E-}004$$

$$R = 0.9999$$

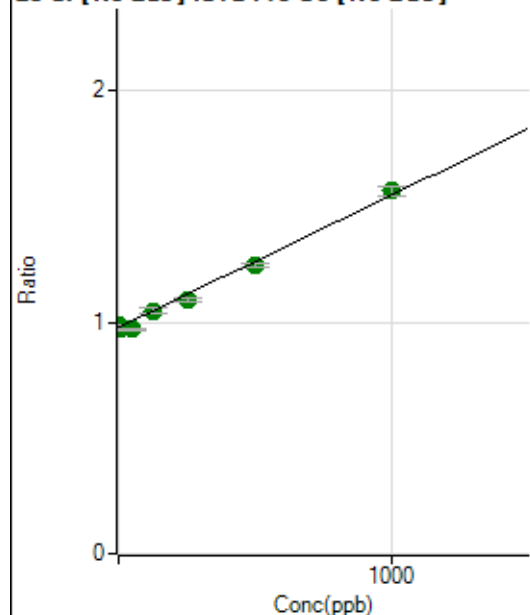
$$DL = 0.3777$$

$$BEC = 1.736$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8215950.53	0.9764	A	2.1
2	☐	1.000	26.013	8348238.47	0.9913	A	1.5
3	☐	10.000	-2.366	8377883.61	0.9751	A	2.1
4	☐	50.000	-15.587	8592868.94	0.9675	A	1.6
5	☐	125.000	122.963	9101243.35	1.0468	A	2.3
6	☐	250.000	206.778	9328032.24	1.0947	A	1.4
7	☐	500.000	467.518	10591678.02	1.2439	A	1.8
8	☐	1000.000	1030.679	13274928.51	1.5661	A	3.0
9	☐			7802316.84	0.8953	A	1.5

$$y = 5.7214\text{E-}004 * x + 0.9764$$

$$R = 0.9962$$

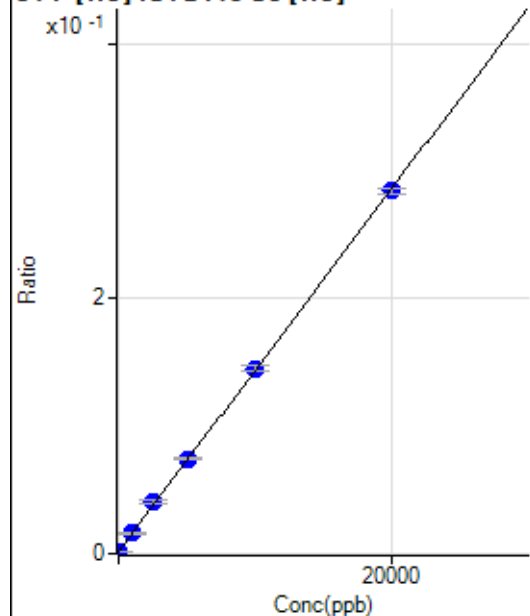
$$DL = 109.1$$

$$BEC = 1707$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-3.973	325.01	0.0016	P	19.3
2	☐	0.000	-0.282	338.90	0.0017	P	11.6
3	☐	0.000	4.255	358.35	0.0017	P	18.5
4	☐	1000.000	999.478	3375.49	0.0159	P	2.7
5	☐	2500.000	2745.592	8422.10	0.0407	P	5.3
6	☐	5000.000	5130.772	15086.01	0.0746	P	1.6
7	☐	10000.000	10087.537	29433.38	0.1450	P	3.4
8	☐	20000.000	19892.866	58465.79	0.2843	P	1.7
9	☐			383.35	0.0018	P	14.6

$$y = 1.4208\text{E-}005 * x + 0.0017$$

$$R = 0.9999$$

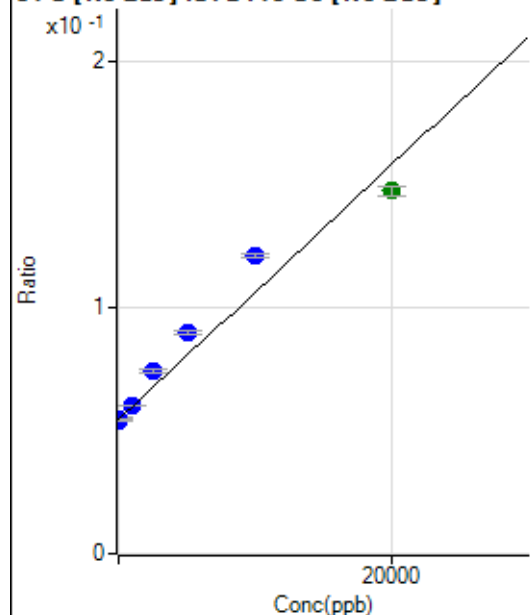
$$DL = 57.58$$

$$BEC = 116.5$$

Weight: <None>

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	88.244	463122.88	0.0550	P	1.3
2	☐	0.000	-18.606	458814.26	0.0545	P	1.4
3	☐	0.000	-69.638	465886.71	0.0542	P	0.5
4	☐	1000.000	1088.319	534826.89	0.0602	P	0.1
5	☐	2500.000	3810.923	646237.17	0.0743	P	2.0
6	☐	5000.000	6852.858	767546.62	0.0901	P	1.6
7	☐	10000.000	12873.598	1032670.53	0.1213	P	1.5
8	☐	20000.000	17931.705	1250065.04	0.1475	A	2.9
9	☐			410099.81	0.0471	P	1.1

$$y = 5.1807\text{E-}006 * x + 0.0546$$

$$R = 0.9773$$

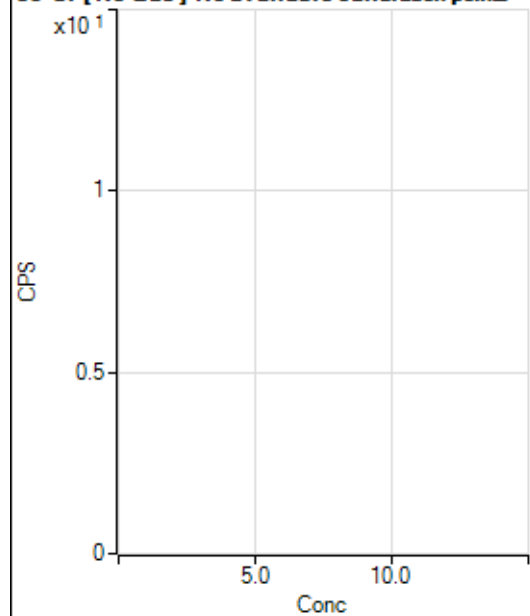
$$DL = 335.3$$

$$BEC = 1.054\text{E}+04$$

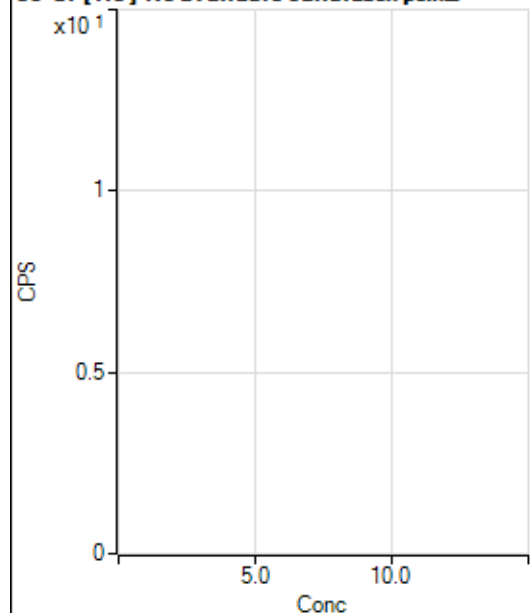
Weight: <None>

Min Conc: 0

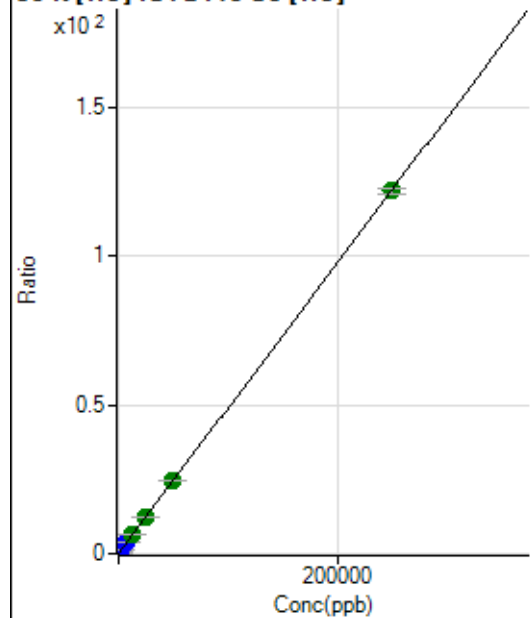
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			338471.33		P	1.2
2	☐			344870.87		P	0.8
3	☐			334695.86		P	1.0
4	☐			419920.03		P	0.5
5	☐			417342.98		P	1.3
6	☐			405394.00		P	1.0
7	☐			392442.25		P	0.5
8	☐			395204.76		P	0.6
9	☐			385340.58		P	0.7

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1677.91		P	8.6
2	☐			1705.71		P	7.6
3	☐			1680.70		P	7.5
4	☐			2077.98		P	6.4
5	☐			2064.09		P	8.7
6	☐			2108.55		P	3.2
7	☐			2061.31		P	8.5
8	☐			2077.99		P	8.5
9	☐			2080.76		P	5.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16187.25	0.0795	P	0.8
2	☐	50.000	56.432	21942.21	0.1069	P	0.8
3	☐	500.000	525.043	69997.73	0.3350	P	0.4
4	☐	2500.000	2668.536	293380.08	1.3782	P	1.4
5	☐	6250.000	7567.785	779232.67	3.7625	P	1.4
6	☐	12500.000	12995.442	1295624.88	6.4039	A	1.6
7	☐	25000.000	25280.049	2514252.53	12.3824	A	1.5
8	☐	50000.000	49761.254	4996547.99	24.2966	A	0.8
9	☐	250000.00	249960.29	25554515.50	121.7266	A	1.3

$$y = 4.8667E-004 * x + 0.0795$$

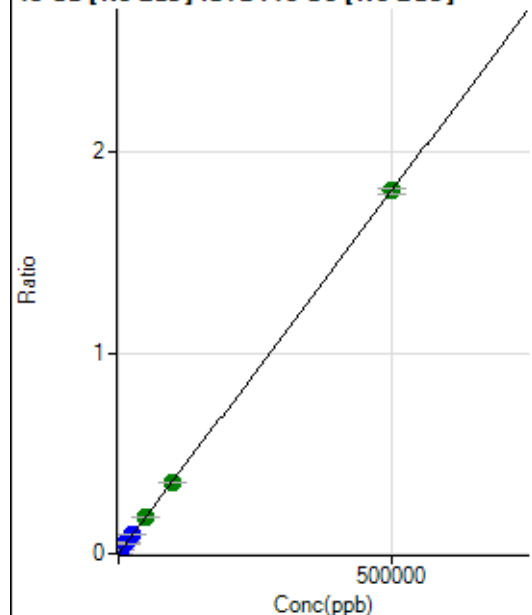
$$R = 1.0000$$

$$DL = 3.904$$

$$BEC = 163.3$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	486.92	0.0001	P	3.8
2	☐	50.000	50.078	2012.56	0.0002	P	3.3
3	☐	500.000	502.320	16114.40	0.0019	P	0.8
4	☐	5000.000	5047.436	162713.73	0.0183	P	0.5
5	☐	12500.000	14591.469	459533.18	0.0529	P	2.2
6	☐	25000.000	26373.218	813563.10	0.0955	P	1.5
7	☐	50000.000	50675.564	1561783.27	0.1834	A	1.4
8	☐	100000.00	98329.929	3016803.55	0.3558	A	2.2
9	☐	500000.00	500145.03	15770555.42	1.8097	A	1.5

$$y = 3.6182\text{E-}006 * x + 5.7851\text{E-}005$$

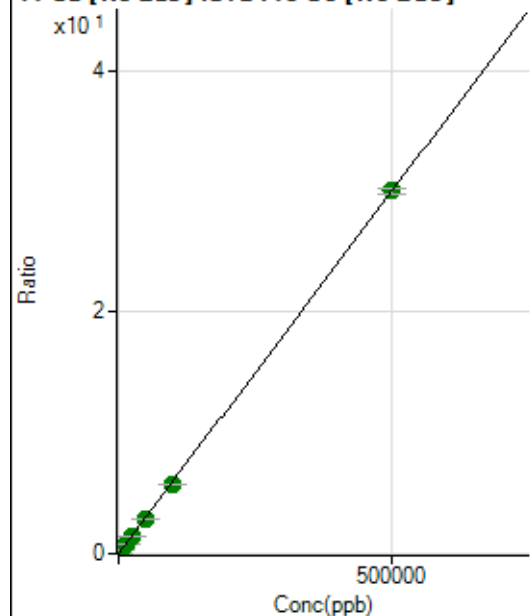
$$R = 1.0000$$

$$DL = 1.828$$

$$BEC = 15.99$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30077.83	0.0036	P	0.8
2	☐	50.000	47.725	54210.57	0.0064	P	1.4
3	☐	500.000	503.895	290441.73	0.0338	P	0.9
4	☐	5000.000	4790.777	2584163.46	0.2910	A	0.9
5	☐	12500.000	13825.113	7242329.24	0.8329	A	1.6
6	☐	25000.000	24924.194	12770701.90	1.4987	A	1.1
7	☐	50000.000	48444.621	24778051.54	2.9096	A	0.8
8	☐	100000.00	95643.539	48666461.67	5.7409	A	2.5
9	☐	500000.00	500999.58	261934684.9	30.0570	A	1.4

$$y = 5.9987\text{E-}005 * x + 0.0036$$

$$R = 0.9999$$

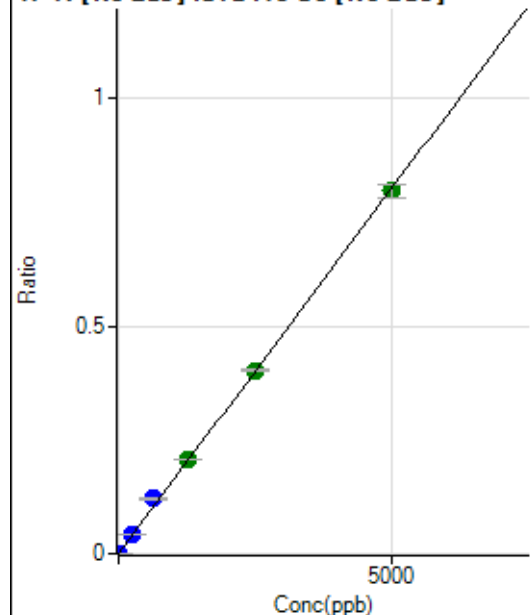
$$DL = 1.344$$

$$BEC = 59.59$$

Weight: <None>

Min Conc: 0

47 Ti [No Gas] ISTD :45 Sc [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	266.68	0.0000	P	24.4
2	☐	0.500	0.570	1036.18	0.0001	P	7.2
3	☐	5.000	5.465	7799.55	0.0009	P	3.2
4	☐	250.000	264.482	376795.15	0.0424	P	1.8
5	☐	625.000	753.079	1049805.70	0.1207	P	2.0
6	☐	1250.000	1288.896	1760706.79	0.2066	A	1.0
7	☐	2500.000	2509.215	3425378.42	0.4022	A	0.9
8	☐	5000.000	4968.934	6750374.81	0.7965	A	3.4
9	☐			3153.21	0.0004	P	15.1

$$y = 1.6028\text{E-}004 * x + 3.1731\text{E-}005$$

$$R = 0.9997$$

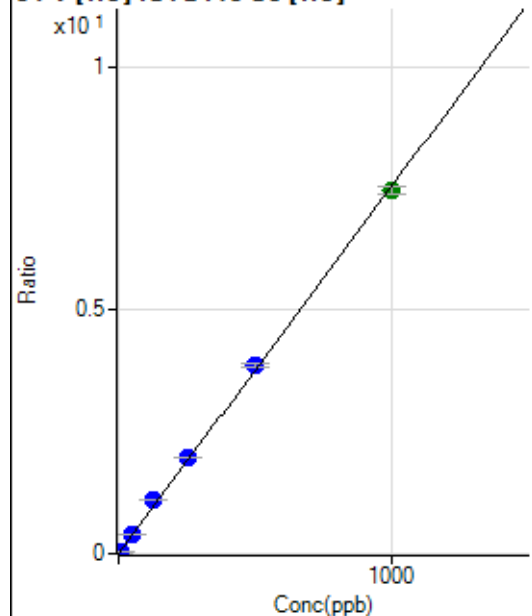
$$DL = 0.1449$$

$$BEC = 0.198$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.89	0.0000	P	58.4
2	☐	0.500	0.484	758.92	0.0037	P	7.8
3	☐	5.000	5.063	7990.07	0.0382	P	0.9
4	☐	50.000	50.520	81139.42	0.3811	P	1.7
5	☐	125.000	145.456	227267.67	1.0973	P	0.5
6	☐	250.000	260.937	398267.41	1.9684	P	0.7
7	☐	500.000	513.064	785889.05	3.8704	P	1.5
8	☐	1000.000	988.150	1532838.89	7.4542	A	2.0
9	☐			551.13	0.0026	P	7.5

$$y = 0.0075 * x + 4.3956\text{E-}005$$

$$R = 0.9996$$

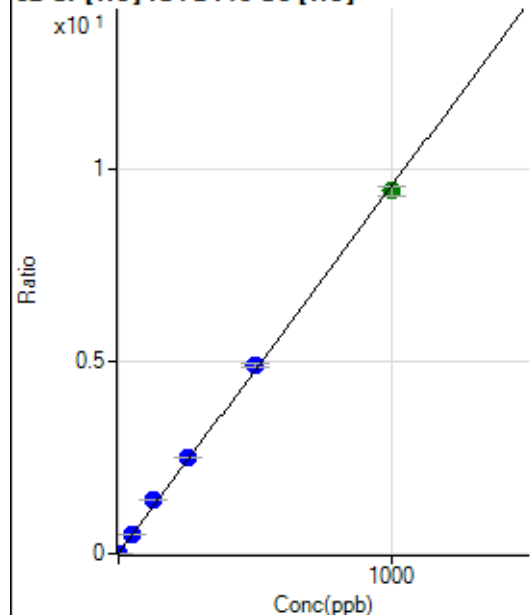
$$DL = 0.01021$$

$$BEC = 0.005827$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	895.59	0.0044	P	4.6
2	☐	0.200	0.220	1331.18	0.0065	P	9.1
3	☐	2.000	2.099	5096.52	0.0244	P	4.0
4	☐	50.000	50.939	104198.21	0.4895	P	1.8
5	☐	125.000	144.869	286648.84	1.3840	P	0.4
6	☐	250.000	261.483	504688.20	2.4945	P	1.5
7	☐	500.000	513.750	994287.97	4.8969	P	1.7
8	☐	1000.000	987.724	1935096.76	9.4105	A	2.4
9	☐			8252.45	0.0393	P	1.8

$$y = 0.0095 * x + 0.0044$$

$$R = 0.9996$$

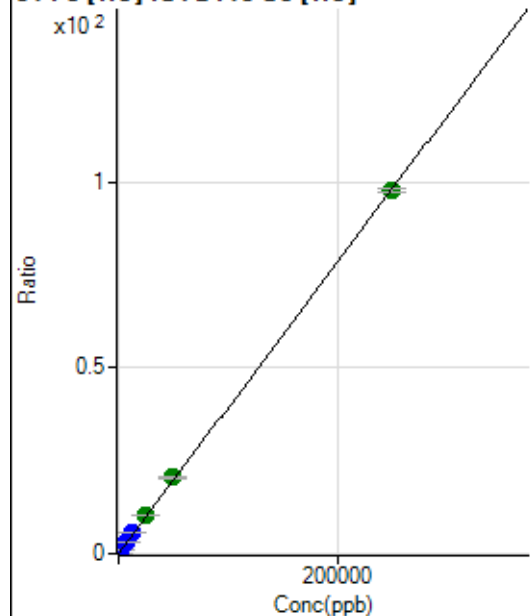
$$DL = 0.06432$$

$$BEC = 0.462$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	322.23	0.0016	P	2.2
2	☐	5.000	4.367	675.96	0.0033	P	15.5
3	☐	50.000	55.920	4904.64	0.0235	P	2.7
4	☐	2500.000	2729.757	227811.45	1.0701	P	1.3
5	☐	6250.000	7776.409	630786.55	3.0456	P	0.8
6	☐	12500.000	13978.287	1107491.68	5.4733	P	1.5
7	☐	25000.000	26691.009	2122092.51	10.4497	A	0.9
8	☐	50000.000	52221.474	4204000.58	20.4435	A	1.7
9	☐	250000.00	249272.23	20485204.63	97.5784	A	1.1

$$y = 3.9145E-004 * x + 0.0016$$

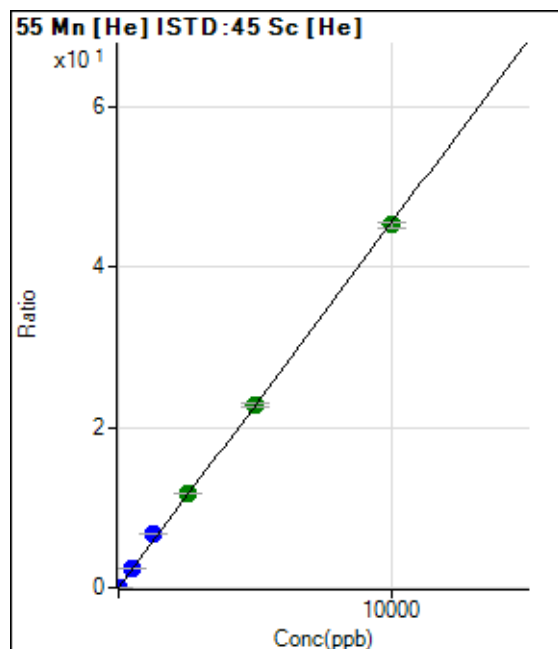
$$R = 0.9999$$

$$DL = 0.268$$

$$BEC = 4.042$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.56	0.0001	P	106.9
2	☐	0.100	0.104	123.33	0.0006	P	26.8
3	☐	1.000	1.131	1102.27	0.0053	P	2.2
4	☐	500.000	524.565	508315.34	2.3879	P	1.8
5	☐	1250.000	1489.511	1404225.85	6.7802	P	1.0
6	☐	2500.000	2584.862	2380714.98	11.7661	A	0.8
7	☐	5000.000	5023.499	4642649.72	22.8665	A	2.3
8	☐	10000.000	9935.868	9300471.46	45.2270	A	1.5
9	☐			7970.07	0.0380	P	1.2

$$y = 0.0046 * x + 1.2571E-004$$

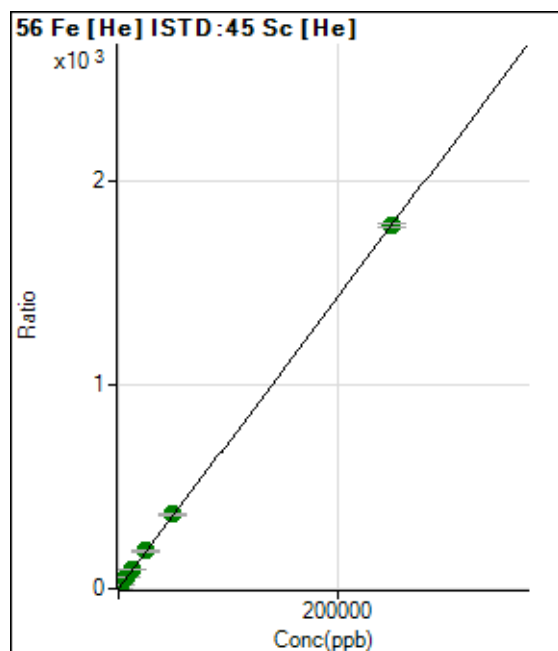
$$R = 0.9997$$

$$DL = 0.08854$$

$$BEC = 0.02762$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2174.28	0.0107	P	4.2
2	☐	5.000	5.573	10339.06	0.0504	P	3.2
3	☐	50.000	54.688	83642.05	0.4003	P	1.0
4	☐	2500.000	2596.350	3940218.26	18.5086	A	0.6
5	☐	6250.000	7401.649	10924560.43	52.7444	A	0.4
6	☐	12500.000	13333.754	19224438.39	95.0083	A	1.2
7	☐	25000.000	25822.249	37356526.76	183.9838	A	1.8
8	☐	50000.000	51084.235	74844423.90	363.9653	A	2.2
9	☐	250000.00	249629.48	373373437.9	1,778.520	A	1.2

$$y = 0.0071 * x + 0.0107$$

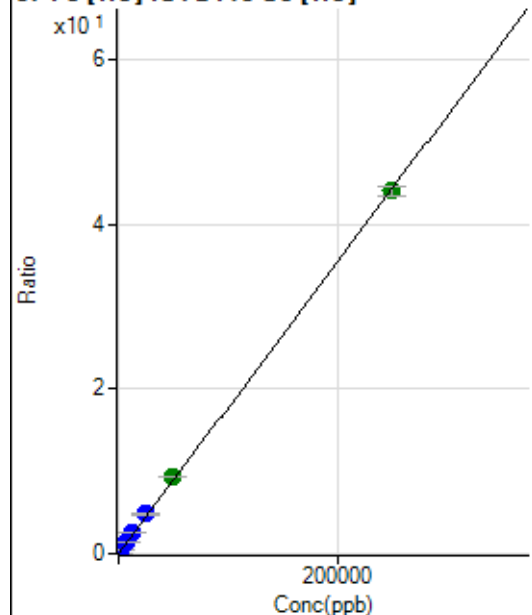
$$R = 1.0000$$

$$DL = 0.1906$$

$$BEC = 1.498$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	100.00	0.0005	P	18.4
2	☐	5.000	5.372	296.30	0.0014	P	8.4
3	☐	50.000	51.547	2009.44	0.0096	P	5.2
4	☐	2500.000	2706.272	102097.69	0.4796	P	1.3
5	☐	6250.000	7760.564	284647.89	1.3744	P	0.9
6	☐	12500.000	13933.879	499209.75	2.4673	P	0.6
7	☐	25000.000	27073.561	973300.67	4.7935	P	1.8
8	☐	50000.000	52809.103	1922782.25	9.3497	A	0.2
9	☐	250000.00	249119.30	9258032.85	44.1039	A	2.6

$$y = 1.7704\text{E-}004 * x + 4.9208\text{E-}004$$

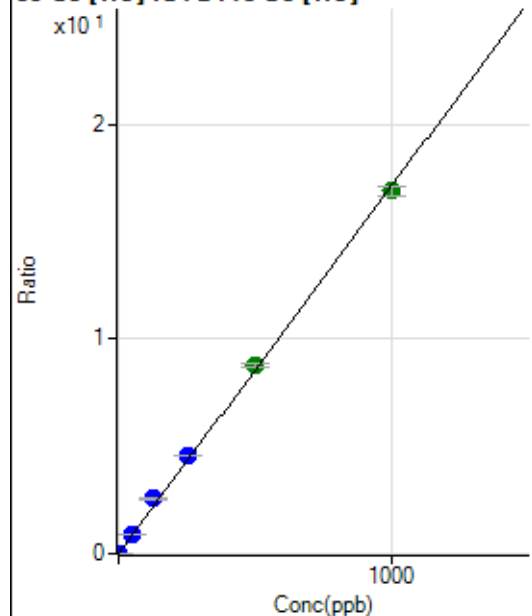
$$R = 0.9999$$

$$DL = 1.537$$

$$BEC = 2.78$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	61.11	0.0003	P	33.0
2	☐	0.100	0.103	424.45	0.0021	P	9.4
3	☐	1.000	1.070	3889.46	0.0186	P	3.0
4	☐	50.000	52.705	192031.85	0.9021	P	1.0
5	☐	125.000	149.618	530230.90	2.5602	P	0.9
6	☐	250.000	266.467	922511.91	4.5594	P	0.4
7	☐	500.000	511.572	1777260.29	8.7530	A	1.8
8	☐	1000.000	986.884	3472336.27	16.8853	A	2.3
9	☐			5665.62	0.0270	P	1.3

$$y = 0.0171 * x + 3.0094\text{E-}004$$

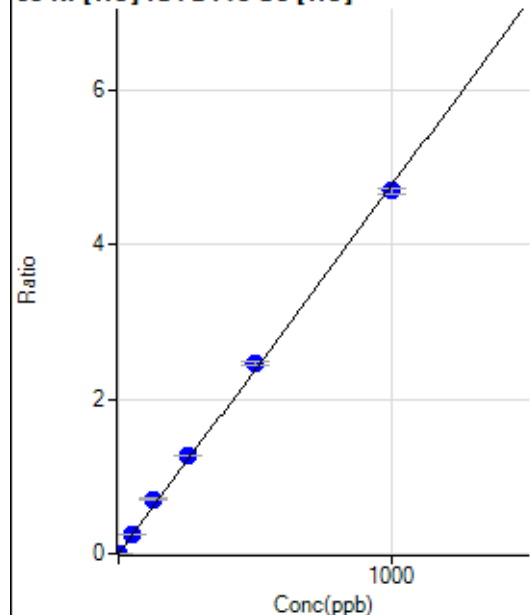
$$R = 0.9995$$

$$DL = 0.01743$$

$$BEC = 0.01759$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	45.56	0.0002	P	12.7
2	☐	0.100	0.087	131.11	0.0006	P	24.4
3	☐	1.000	1.061	1103.39	0.0053	P	8.1
4	☐	50.000	51.446	52225.32	0.2453	P	1.6
5	☐	125.000	147.928	146003.62	0.7050	P	1.8
6	☐	250.000	265.647	256121.37	1.2659	P	0.9
7	☐	500.000	514.793	498047.06	2.4529	P	2.0
8	☐	1000.000	985.753	965853.68	4.6968	P	1.2
9	☐			3473.79	0.0165	P	3.0

$$y = 0.0048 * x + 2.2397E-004$$

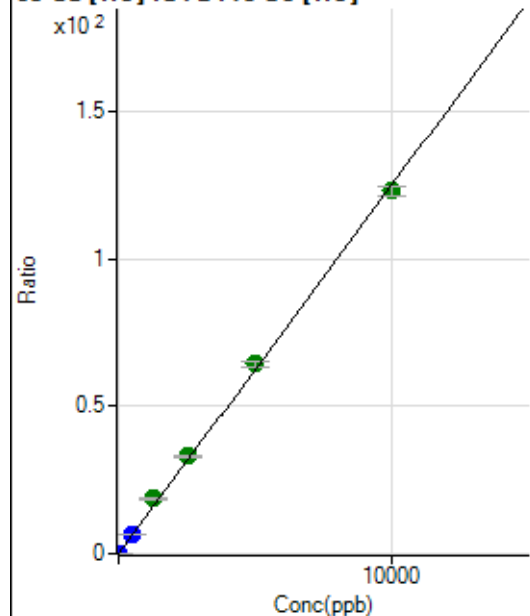
$$R = 0.9995$$

$$DL = 0.01786$$

$$BEC = 0.04701$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	555.57	0.0027	P	8.9
2	☐	0.200	0.215	1112.28	0.0054	P	2.3
3	☐	2.000	2.223	6375.93	0.0305	P	1.6
4	☐	500.000	543.828	1447673.73	6.8004	P	1.1
5	☐	1250.000	1492.229	3863452.58	18.6551	A	2.0
6	☐	2500.000	2652.162	6707596.29	33.1539	A	1.7
7	☐	5000.000	5159.128	13092794.66	64.4902	A	3.0
8	☐	10000.000	9849.925	25318506.84	123.1236	A	2.3
9	☐			14909.03	0.0710	P	5.3

$$y = 0.0125 * x + 0.0027$$

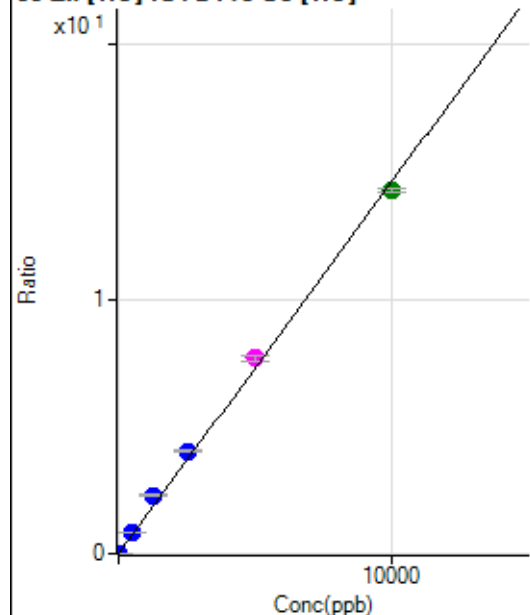
$$R = 0.9994$$

$$DL = 0.05809$$

$$BEC = 0.2184$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	195.56	0.0010	P	14.6
2	☐	0.200	0.237	267.78	0.0013	P	7.9
3	☐	2.000	2.295	900.04	0.0043	P	3.1
4	☐	500.000	548.133	170439.06	0.8006	P	1.9
5	☐	1250.000	1573.394	475586.04	2.2964	P	1.5
6	☐	2500.000	2763.956	816067.57	4.0333	P	0.4
7	☐	5000.000	5254.499	1556499.63	7.6668	M	2.8
8	☐	10000.000	9763.930	2929549.02	14.2457	A	1.0
9	☐			52778.93	0.2514	P	1.3

$$y = 0.0015 * x + 9.5893E-004$$

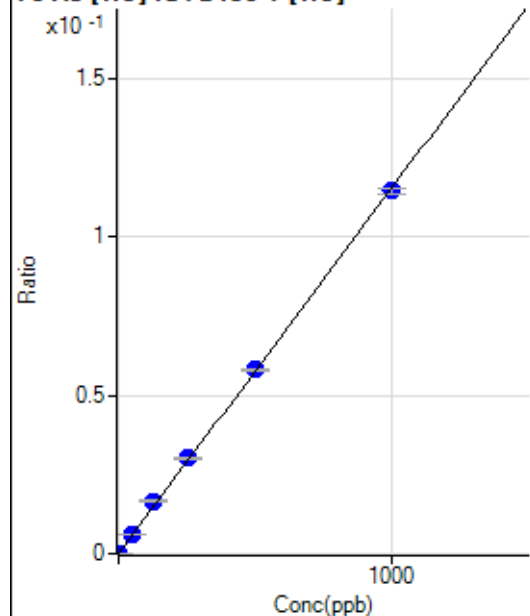
$$R = 0.9987$$

$$DL = 0.2879$$

$$BEC = 0.6573$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD:89 Y [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6.67	0.0000	P	56.1
2	☐	0.100	0.085	22.33	0.0000	P	13.7
3	☐	1.000	1.034	196.69	0.0001	P	5.5
4	☐	50.000	52.117	9829.07	0.0060	P	1.7
5	☐	125.000	143.856	26934.59	0.0166	P	1.5
6	☐	250.000	261.261	46944.12	0.0302	P	1.9
7	☐	500.000	503.308	92196.11	0.0581	P	0.9
8	☐	1000.000	993.068	180878.32	0.1146	P	1.8
9	☐			83.34	0.0001	P	8.6

$$y = 1.1540E-004 * x + 4.2724E-006$$

$$R = 0.9998$$

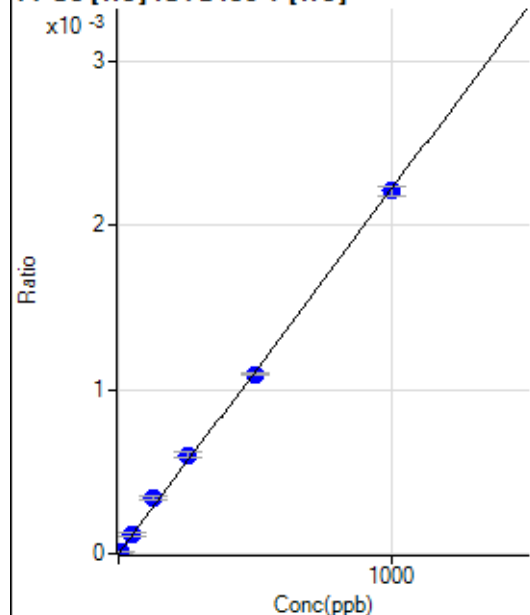
$$DL = 0.06233$$

$$BEC = 0.03702$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	0.500	1.568	6.67	0.0000	P	49.5
3	☐	5.000	4.104	15.55	0.0000	P	46.6
4	☐	50.000	51.720	188.89	0.0001	P	19.6
5	☐	125.000	152.748	551.13	0.0003	P	6.3
6	☐	250.000	270.939	937.82	0.0006	P	5.2
7	☐	500.000	492.509	1736.79	0.0011	P	1.5
8	☐	1000.000	994.960	3488.25	0.0022	P	2.4
9	☐			3.33	0.0000	P	100.2

$$y = 2.2203\text{E-}006 * x + 7.1509\text{E-}007$$

$$R = 0.9994$$

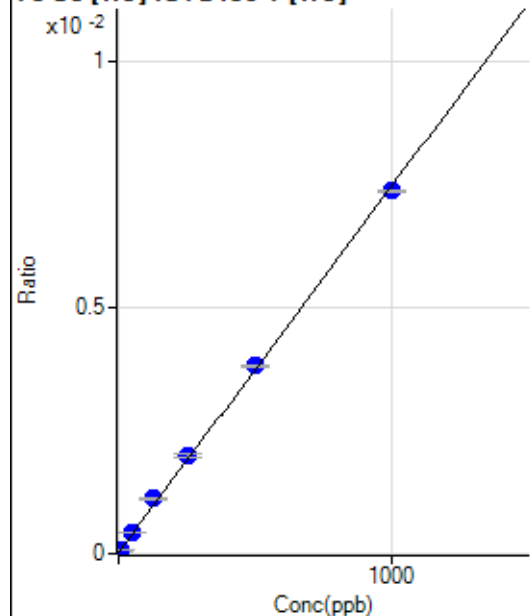
$$DL = 1.674$$

$$BEC = 0.3221$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	40.00	0.0000	P	22.3
2	☐	0.500	-0.489	35.00	0.0000	P	2.0
3	☐	5.000	5.836	109.68	0.0001	P	12.4
4	☐	50.000	54.583	703.76	0.0004	P	2.4
5	☐	125.000	147.157	1813.64	0.0011	P	3.3
6	☐	250.000	265.912	3113.33	0.0020	P	3.1
7	☐	500.000	510.472	6056.58	0.0038	P	1.0
8	☐	1000.000	987.783	11617.62	0.0074	P	0.5
9	☐			46.67	0.0000	P	13.8

$$y = 7.4249\text{E-}006 * x + 2.5671\text{E-}005$$

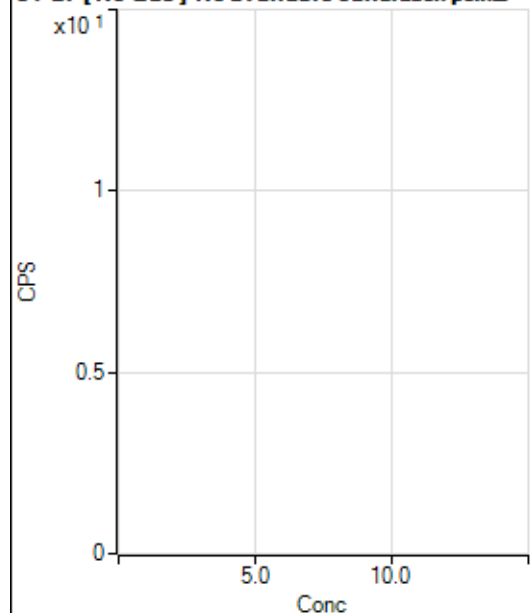
$$R = 0.9996$$

$$DL = 2.312$$

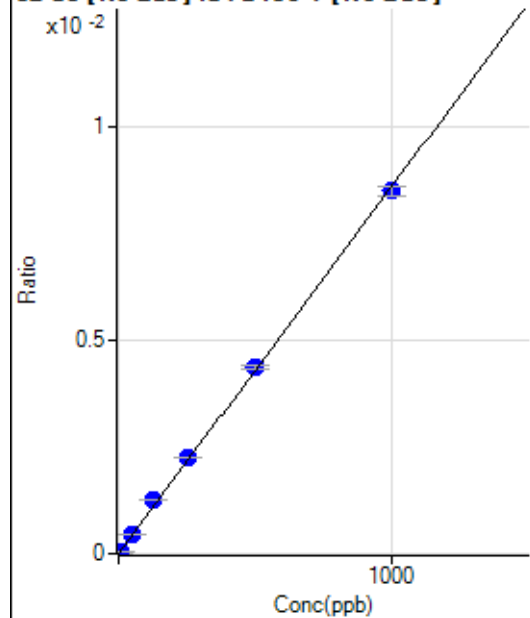
$$BEC = 3.457$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			29835.72		P	1.8
2	☐			30672.20		P	1.0
3	☐			31601.41		P	0.9
4	☐			31180.25		P	0.8
5	☐			30735.49		P	2.1
6	☐			28598.46		P	1.9
7	☐			28077.06		P	0.7
8	☐			28802.52		P	0.3
9	☐			30203.28		P	0.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3.99	0.0000	P	2210.
2	☐	0.500	0.504	86.88	0.0000	P	34.8
3	☐	5.000	5.338	914.10	0.0000	P	6.4
4	☐	50.000	52.473	9094.11	0.0005	P	0.9
5	☐	125.000	147.272	24932.44	0.0013	P	2.5
6	☐	250.000	263.803	44151.04	0.0023	P	0.6
7	☐	500.000	509.295	85302.91	0.0044	P	1.8
8	☐	1000.000	988.993	164496.23	0.0085	P	2.3
9	☐			168.67	0.0000	P	25.3

$$y = 8.5826E-006 * x + 2.0396E-007$$

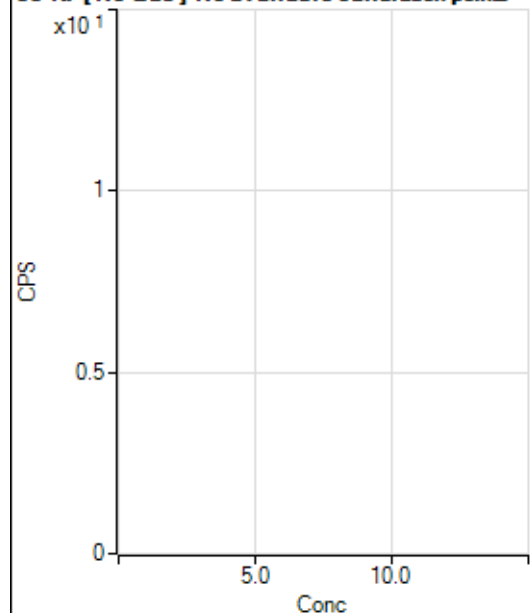
$$R = 0.9996$$

$$DL = 1.576$$

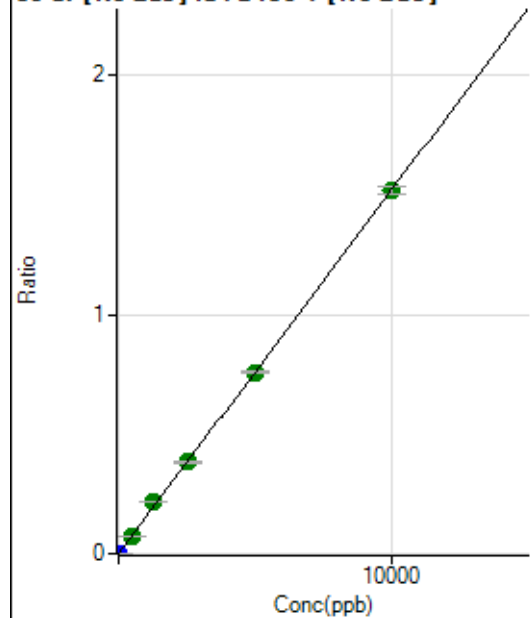
$$BEC = 0.02376$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1171.17		P	9.1
2	☐			1147.84		P	3.5
3	☐			1137.83		P	3.5
4	☐			1154.51		P	0.9
5	☐			1162.28		P	3.3
6	☐			1090.06		P	7.3
7	☐			1050.05		P	3.5
8	☐			1108.94		P	8.4
9	☐			1206.73		P	2.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1858.51	0.0001	P	8.6
2	☐	0.100	0.069	2047.42	0.0001	P	1.9
3	☐	1.000	0.978	4859.30	0.0002	P	0.1
4	☐	500.000	495.161	1520635.37	0.0753	A	1.5
5	☐	1250.000	1425.160	4272948.79	0.2166	A	2.3
6	☐	2500.000	2518.078	7462590.97	0.3827	A	1.1
7	☐	5000.000	4991.383	14805166.30	0.7585	A	1.1
8	☐	10000.000	9978.136	29385300.66	1.5163	A	2.0
9	☐			18326.35	0.0009	P	6.2

$$y = 1.5195E-004 * x + 9.6002E-005$$

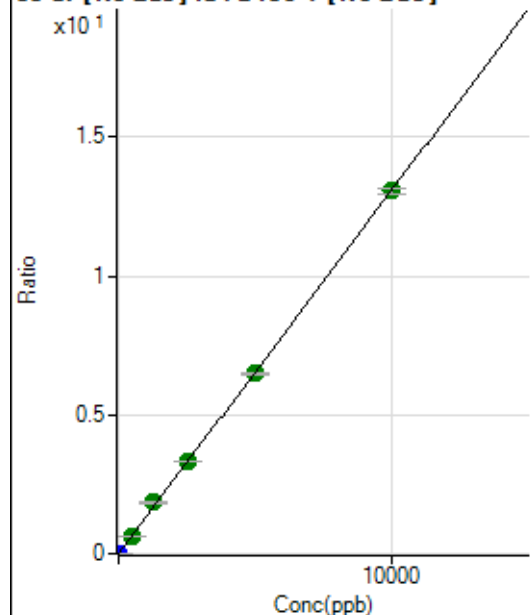
$$R = 0.9998$$

$$DL = 0.1631$$

$$BEC = 0.6318$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	280.56	0.0000	P	27.1
2	☐	0.100	0.103	2858.71	0.0001	P	4.9
3	☐	1.000	1.065	27939.76	0.0014	P	2.5
4	☐	500.000	491.740	12982288.40	0.6432	A	1.1
5	☐	1250.000	1416.059	36532477.90	1.8522	A	1.9
6	☐	2500.000	2530.029	64527545.19	3.3092	A	0.4
7	☐	5000.000	4963.143	126694276.4	6.4917	A	1.3
8	☐	10000.000	9990.577	253256563.9	13.0675	A	1.9
9	☐			144186.45	0.0073	P	6.1

$$y = 0.0013 * x + 1.4497E-005$$

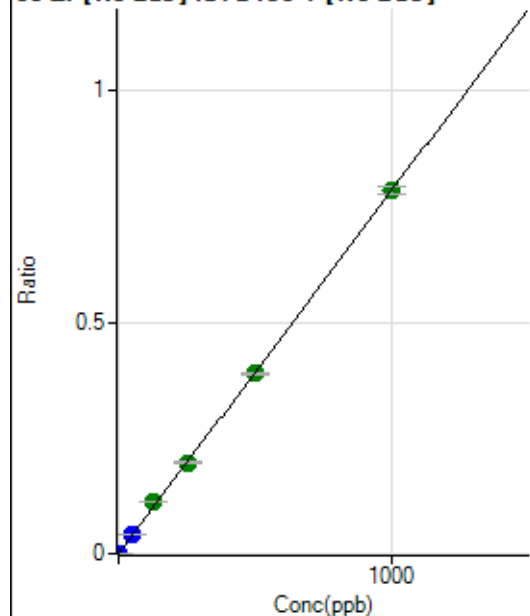
$$R = 0.9998$$

$$DL = 0.009007$$

$$BEC = 0.01108$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1302.88	0.0001	P	5.6
2	☐	0.100	0.112	2983.73	0.0002	P	10.2
3	☐	1.000	1.045	17608.76	0.0009	P	2.4
4	☐	50.000	51.753	820067.10	0.0406	P	0.9
5	☐	125.000	143.281	2216384.53	0.1124	A	1.7
6	☐	250.000	250.961	3836399.78	0.1968	A	1.1
7	☐	500.000	495.567	7581316.84	0.3885	A	1.6
8	☐	1000.000	999.603	15184948.78	0.7835	A	2.3
9	☐			7869.12	0.0004	P	10.4

$$y = 7.8377E-004 * x + 6.7397E-005$$

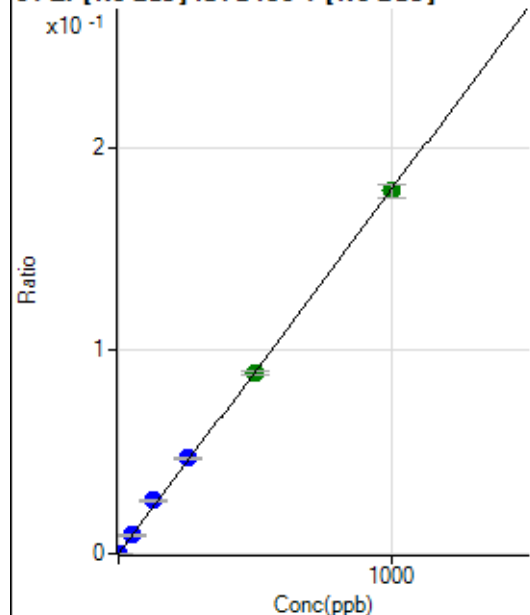
$$R = 0.9998$$

$$DL = 0.01449$$

$$BEC = 0.08599$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	219.45	0.0000	P	7.5
2	☐	0.100	0.104	577.80	0.0000	P	2.0
3	☐	1.000	0.981	3720.04	0.0002	P	1.2
4	☐	50.000	50.228	182146.79	0.0090	P	1.0
5	☐	125.000	146.104	517315.42	0.0262	P	2.2
6	☐	250.000	261.422	914813.32	0.0469	P	1.4
7	☐	500.000	496.596	1739236.91	0.0891	A	1.9
8	☐	1000.000	996.197	3463624.99	0.1788	A	3.4
9	☐			1597.36	0.0001	P	3.1

$$y = 1.7944\text{E-}004 * x + 1.1357\text{E-}005$$

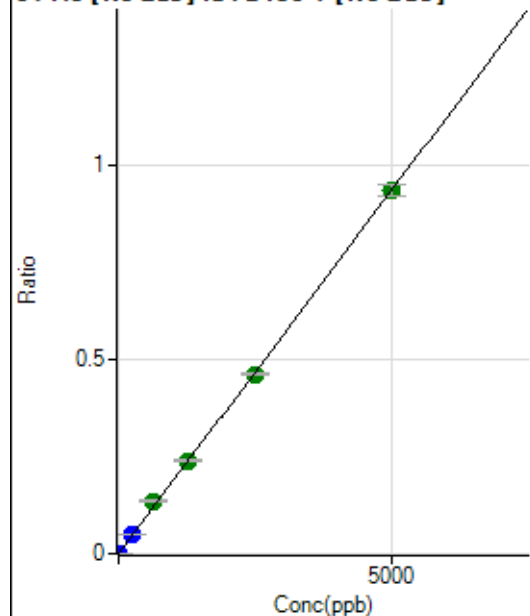
$$R = 0.9997$$

$$DL = 0.01417$$

$$BEC = 0.06329$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	369.46	0.0000	P	2.7
2	☐	0.500	0.533	2291.92	0.0001	P	6.5
3	☐	5.000	5.200	19742.19	0.0010	P	3.0
4	☐	250.000	260.408	985806.25	0.0488	P	1.0
5	☐	625.000	722.566	2672246.11	0.1355	A	2.1
6	☐	1250.000	1277.930	4670989.21	0.2396	A	2.8
7	☐	2500.000	2472.618	9046884.66	0.4636	A	1.9
8	☐	5000.000	4993.992	18142075.40	0.9363	A	3.0
9	☐			9489.65	0.0005	P	9.8

$$y = 1.8748\text{E-}004 * x + 1.9107\text{E-}005$$

$$R = 0.9998$$

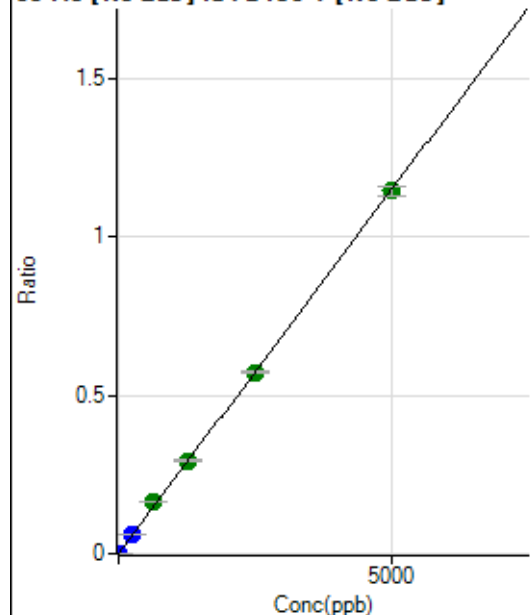
$$DL = 0.008357$$

$$BEC = 0.1019$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	20.6
2	☐	0.500	0.506	2261.37	0.0001	P	5.3
3	☐	5.000	5.103	23339.59	0.0012	P	1.5
4	☐	250.000	260.614	1210264.16	0.0600	P	0.5
5	☐	625.000	715.217	3245685.32	0.1645	A	1.6
6	☐	1250.000	1276.459	5725359.72	0.2937	A	2.1
7	☐	2500.000	2493.585	11196096.61	0.5737	A	1.4
8	☐	5000.000	4984.785	22224712.48	1.1468	A	2.8
9	☐			11552.38	0.0006	P	8.9

$$y = 2.3007\text{E-}004 * x + 1.1473\text{E-}006$$

$$R = 0.9998$$

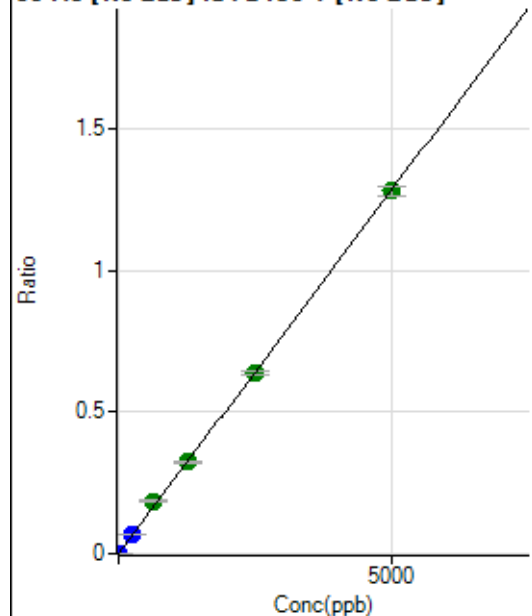
$$DL = 0.003088$$

$$BEC = 0.004987$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	188.89	0.0000	P	2.7
2	☐	0.500	0.511	2708.67	0.0001	P	7.1
3	☐	5.000	5.103	26208.67	0.0013	P	0.8
4	☐	250.000	259.499	1344652.12	0.0666	P	1.2
5	☐	625.000	718.749	3638964.67	0.1845	A	2.5
6	☐	1250.000	1263.384	6322557.52	0.3243	A	2.0
7	☐	2500.000	2488.076	12463088.99	0.6387	A	1.8
8	☐	5000.000	4990.422	24824770.00	1.2810	A	2.7
9	☐			23768.21	0.0012	P	4.8

$$y = 2.5669\text{E-}004 * x + 9.7687\text{E-}006$$

$$R = 0.9998$$

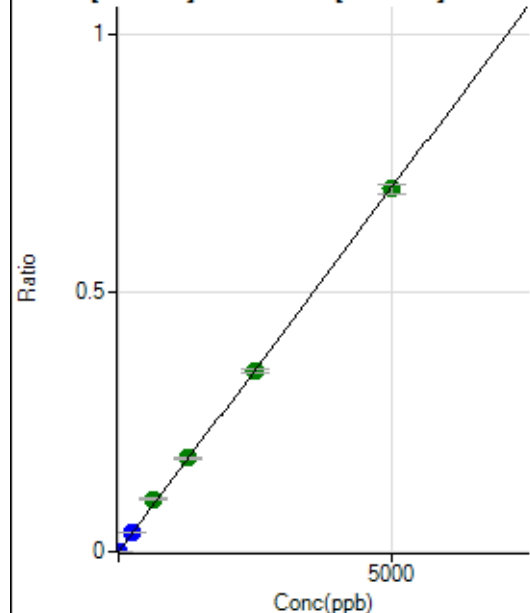
$$DL = 0.003069$$

$$BEC = 0.03806$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11.11	0.0000	P	113.3
2	☐	0.500	0.510	1389.00	0.0001	P	6.0
3	☐	5.000	5.244	14641.42	0.0007	P	0.8
4	☐	250.000	265.004	751458.46	0.0372	P	0.7
5	☐	625.000	725.711	2010633.16	0.1020	A	2.9
6	☐	1250.000	1282.884	3513858.67	0.1802	A	1.8
7	☐	2500.000	2487.502	6818618.43	0.3495	A	2.7
8	☐	5000.000	4984.689	13569110.80	0.7003	A	3.0
9	☐			6957.47	0.0004	P	11.6

$$y = 1.4049\text{E-}004 * x + 5.6779\text{E-}007$$

$$R = 0.9998$$

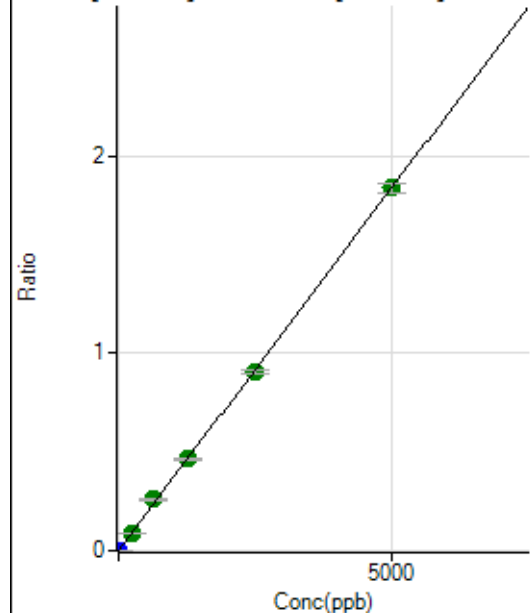
$$DL = 0.01374$$

$$BEC = 0.004042$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	83.34	0.0000	P	46.3
2	☐	0.500	0.513	3706.16	0.0002	P	4.0
3	☐	5.000	5.063	37027.76	0.0019	P	1.9
4	☐	250.000	245.854	1823396.03	0.0903	A	0.5
5	☐	625.000	709.006	5136936.75	0.2605	A	3.8
6	☐	1250.000	1265.245	9063758.28	0.4649	A	1.6
7	☐	2500.000	2464.417	17669963.94	0.9055	A	1.9
8	☐	5000.000	5003.686	35627464.69	1.8385	A	2.5
9	☐			17002.57	0.0009	P	8.9

$$y = 3.6742\text{E-}004 * x + 4.3111\text{E-}006$$

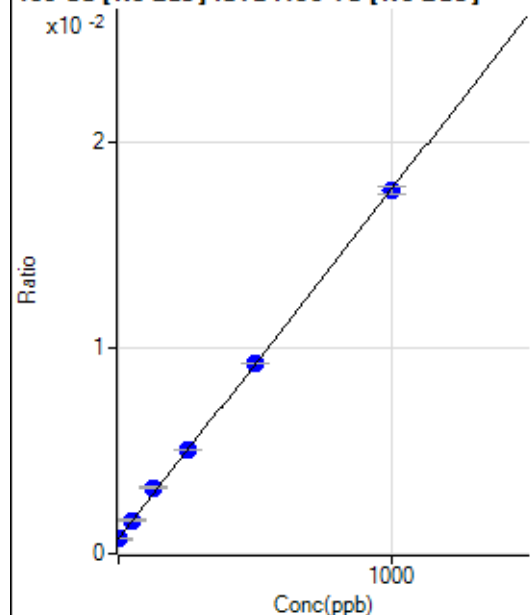
$$R = 0.9998$$

$$DL = 0.01631$$

$$BEC = 0.01173$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	9575.82	0.0007	P	5.2
2	☐	0.100	-0.717	9500.75	0.0007	P	5.2
3	☐	1.000	-1.179	9478.48	0.0007	P	1.3
4	☐	50.000	52.262	22321.31	0.0016	P	4.2
5	☐	125.000	144.892	43979.41	0.0032	P	2.7
6	☐	250.000	254.922	71312.67	0.0051	P	0.7
7	☐	500.000	501.512	128265.67	0.0092	P	0.5
8	☐	1000.000	995.416	247631.08	0.0176	P	2.1
9	☐			8747.45	0.0006	P	2.2

$$y = 1.6991\text{E-}005 * x + 7.2847\text{E-}004$$

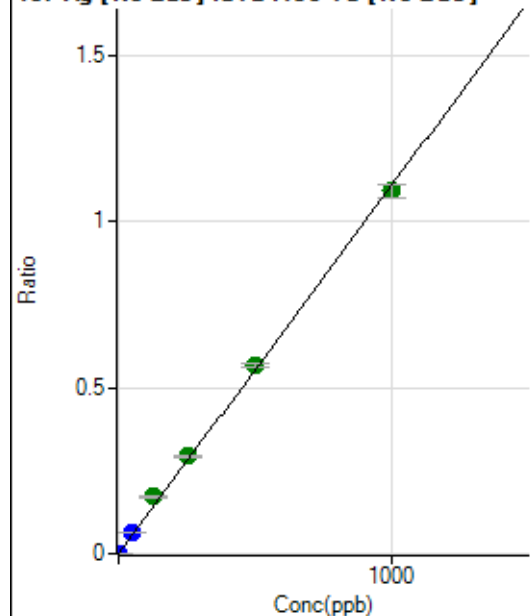
$$R = 0.9998$$

$$DL = 6.633$$

$$BEC = 42.87$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	138.89	0.0000	P	11.3
2	☐	0.100	0.102	1640.39	0.0001	P	10.0
3	☐	1.000	1.078	16101.14	0.0012	P	1.3
4	☐	50.000	56.344	861718.43	0.0624	P	1.5
5	☐	125.000	155.037	2366005.77	0.1716	A	2.4
6	☐	250.000	263.963	4118059.14	0.2922	A	1.2
7	☐	500.000	513.230	7877286.59	0.5681	A	1.6
8	☐	1000.000	985.822	15312612.02	1.0912	A	3.9
9	☐			8243.57	0.0006	P	7.4

$$y = 0.0011 * x + 1.0581\text{E-}005$$

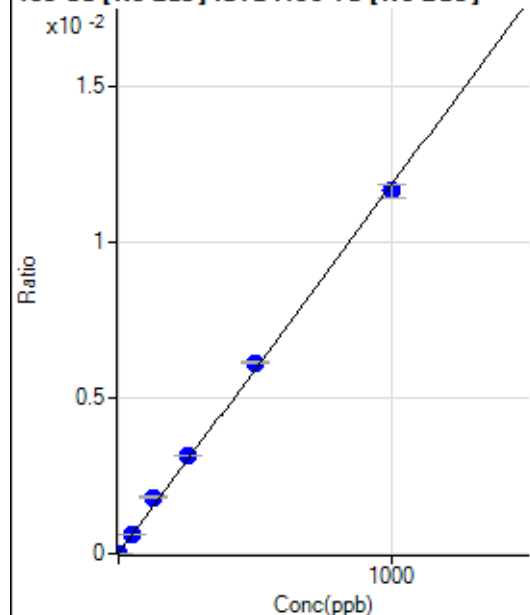
$$R = 0.9994$$

$$DL = 0.003234$$

$$BEC = 0.009559$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	44.44	0.0000	P	39.5
2	☐	0.100	0.090	58.33	0.0000	P	27.5
3	☐	1.000	1.216	237.50	0.0000	P	16.1
4	☐	50.000	53.157	8750.11	0.0006	P	4.8
5	☐	125.000	151.247	24761.23	0.0018	P	3.6
6	☐	250.000	265.686	44439.71	0.0032	P	0.3
7	☐	500.000	517.210	85071.48	0.0061	P	1.1
8	☐	1000.000	984.035	163775.35	0.0117	P	3.4
9	☐			216.67	0.0000	P	7.1

$$y = 1.1855\text{E-}005 * x + 3.3500\text{E-}006$$

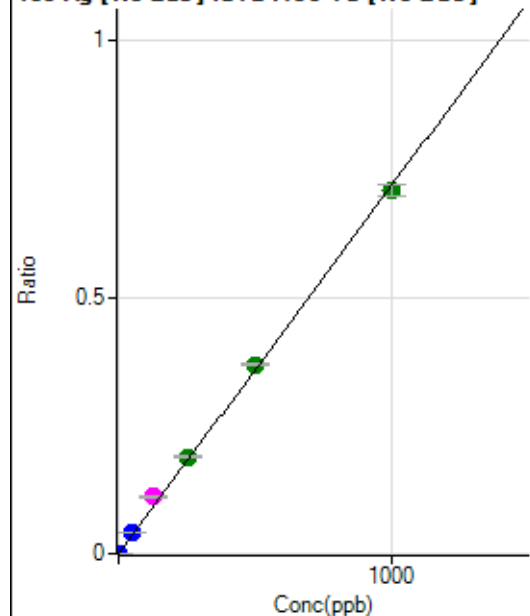
$$R = 0.9994$$

$$DL = 0.3348$$

$$BEC = 0.2826$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	44.45	0.0000	P	59.5
2	☐	0.100	0.104	1036.18	0.0001	P	15.6
3	☐	1.000	1.092	10515.36	0.0008	P	6.4
4	☐	50.000	55.722	552038.63	0.0400	P	1.9
5	☐	125.000	155.355	1535716.74	0.1114	M	3.5
6	☐	250.000	263.528	2663577.75	0.1890	A	0.9
7	☐	500.000	513.175	5103212.18	0.3680	A	0.9
8	☐	1000.000	985.950	9923387.98	0.7071	A	3.2
9	☐			5039.97	0.0004	P	6.8

$$y = 7.1714\text{E-}004 * x + 3.4233\text{E-}006$$

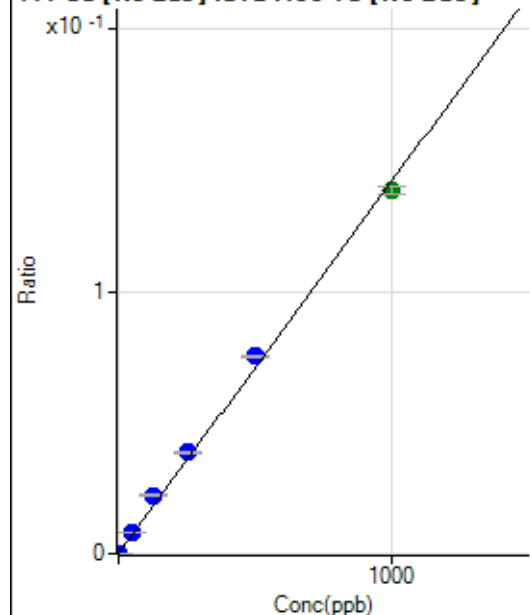
$$R = 0.9994$$

$$DL = 0.008514$$

$$BEC = 0.004774$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	213.84	0.0000	P	9.6
2	☐	0.100	0.116	434.19	0.0000	P	7.6
3	☐	1.000	1.041	2194.51	0.0002	P	2.1
4	☐	50.000	55.348	108656.12	0.0079	P	2.2
5	☐	125.000	156.105	305423.16	0.0222	P	3.5
6	☐	250.000	271.765	543471.09	0.0386	P	0.8
7	☐	500.000	530.776	1044121.82	0.0753	P	1.0
8	☐	1000.000	975.015	1941504.06	0.1383	A	2.1
9	☐			992.05	0.0001	P	6.8

$$y = 1.4183\text{E-}004 * x + 1.6286\text{E-}005$$

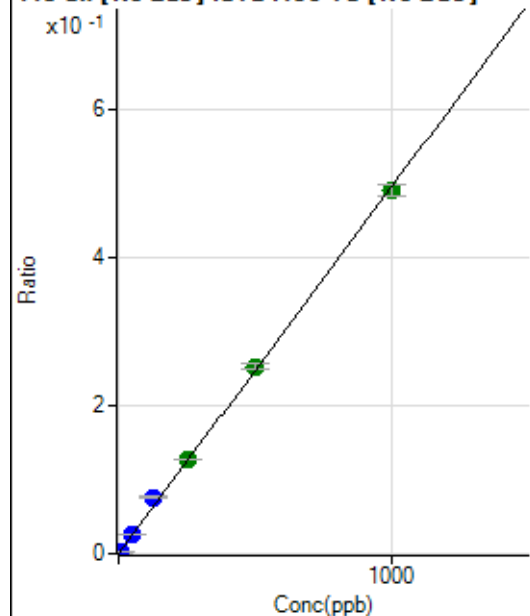
$$R = 0.9987$$

$$DL = 0.03306$$

$$BEC = 0.1148$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	561.14	0.0000	P	9.6
2	☐	0.500	0.527	4028.48	0.0003	P	2.4
3	☐	5.000	5.362	36070.61	0.0027	P	2.5
4	☐	50.000	54.012	369746.65	0.0268	P	2.0
5	☐	125.000	153.938	1050912.77	0.0762	P	1.1
6	☐	250.000	255.970	1785618.01	0.1267	A	0.5
7	☐	500.000	510.555	3503154.77	0.2527	A	2.8
8	☐	1000.000	989.410	6871389.30	0.4896	A	3.1
9	☐			6037.63	0.0004	P	2.4

$$y = 4.9480\text{E-}004 * x + 4.2728\text{E-}005$$

$$R = 0.9995$$

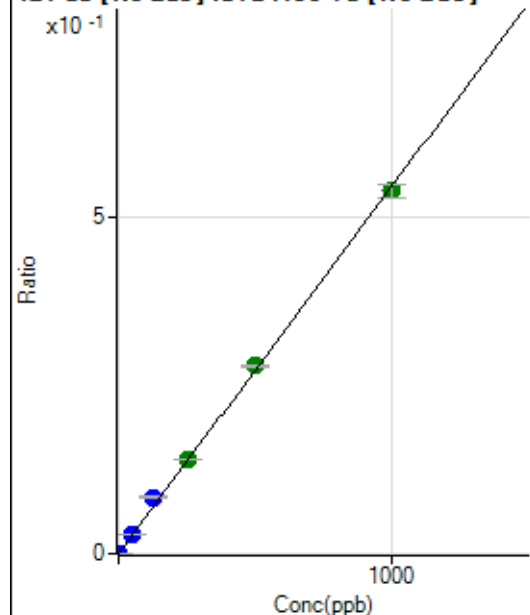
$$DL = 0.02486$$

$$BEC = 0.08636$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	50.00	0.0000	P	57.5
2	☐	0.200	0.198	1477.90	0.0001	P	3.9
3	☐	2.000	2.170	15842.88	0.0012	P	5.3
4	☐	50.000	53.920	405067.40	0.0293	P	2.0
5	☐	125.000	152.682	1144648.42	0.0830	P	2.6
6	☐	250.000	257.035	1970041.43	0.1398	A	0.2
7	☐	500.000	511.572	3857625.13	0.2782	A	1.2
8	☐	1000.000	988.799	7544871.96	0.5377	A	3.9
9	☐			8458.41	0.0006	P	1.2

$$y = 5.4380\text{E-}004 * x + 3.8009\text{E-}006$$

$$R = 0.9995$$

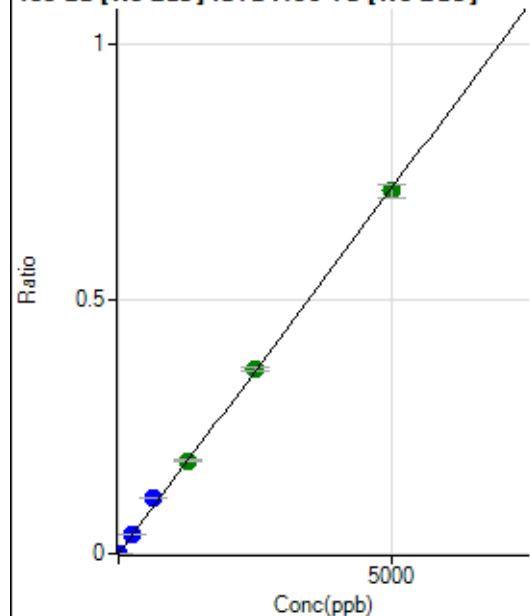
$$DL = 0.01206$$

$$BEC = 0.00699$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.45	0.0000	P	24.6
2	☐	1.000	0.953	1833.51	0.0001	P	6.5
3	☐	10.000	10.716	20607.84	0.0015	P	2.1
4	☐	250.000	262.994	521715.18	0.0378	P	1.3
5	☐	625.000	764.845	1514154.89	0.1098	P	2.3
6	☐	1250.000	1273.233	2576768.44	0.1828	A	2.0
7	☐	2500.000	2521.159	5019421.60	0.3620	A	2.1
8	☐	5000.000	4965.480	10005792.67	0.7130	A	4.0
9	☐			6165.47	0.0004	P	2.6

$$y = 1.4360\text{E-}004 * x + 1.4791\text{E-}006$$

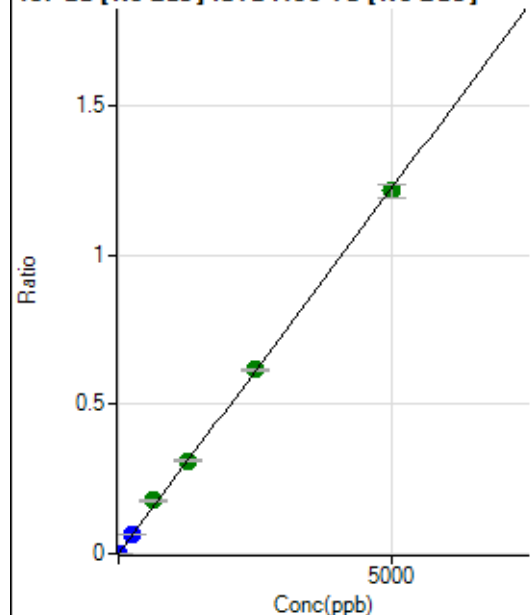
$$R = 0.9996$$

$$DL = 0.007612$$

$$BEC = 0.0103$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	66.5
2	☐	1.000	1.038	3397.75	0.0003	P	4.1
3	☐	10.000	10.779	35341.41	0.0026	P	1.7
4	☐	250.000	269.267	910889.69	0.0659	P	1.3
5	☐	625.000	733.440	2475530.74	0.1796	A	3.6
6	☐	1250.000	1271.989	4389774.36	0.3115	A	0.8
7	☐	2500.000	2525.081	8574256.27	0.6183	A	0.9
8	☐	5000.000	4967.443	17069383.37	1.2164	A	3.8
9	☐			10815.70	0.0008	P	6.7

$$y = 2.4487E-004 * x + 1.8865E-006$$

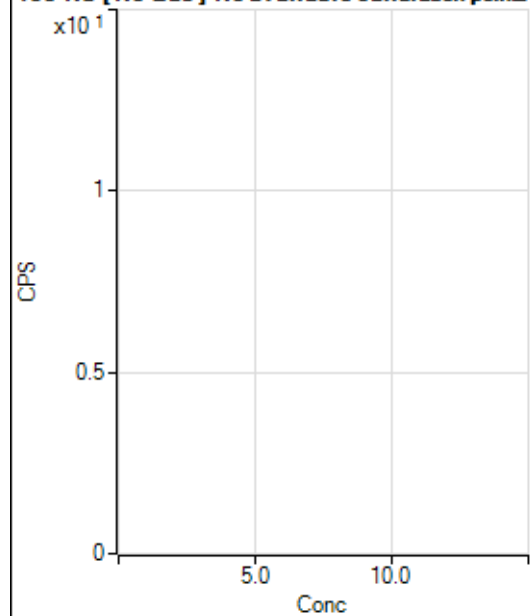
$$R = 0.9998$$

$$DL = 0.01536$$

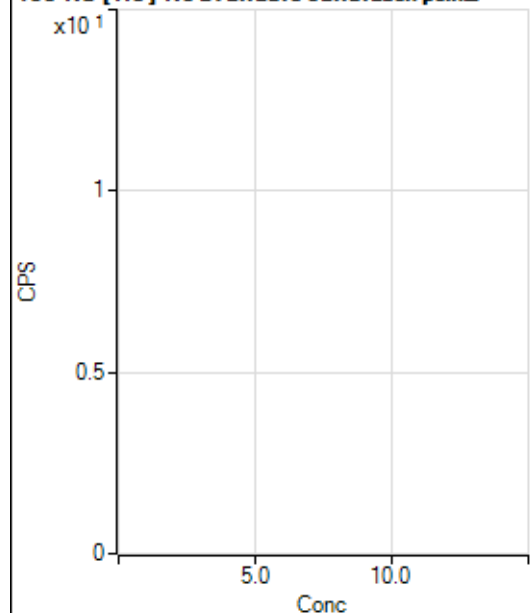
$$BEC = 0.007704$$

Weight: <None>

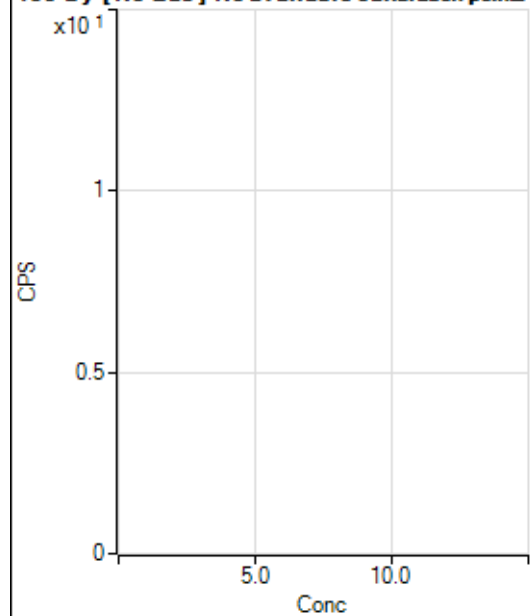
Min Conc: 0

150 Nd [No Gas] No available calibration points

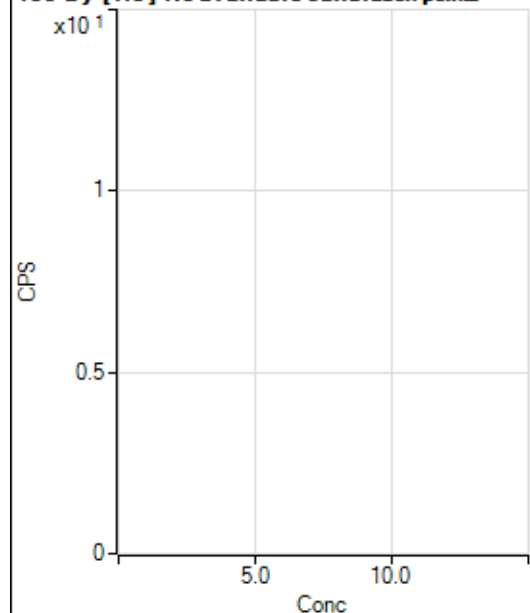
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.33		P	50.0
2	☐			2.22		P	173.2
3	☐			13.33		P	50.0
4	☐			33.33		P	20.0
5	☐			97.78		P	14.2
6	☐			188.89		P	20.7
7	☐			384.46		P	21.7
8	☐			706.70		P	13.9
9	☐			84.45		P	18.2

150 Nd [He] No available calibration points

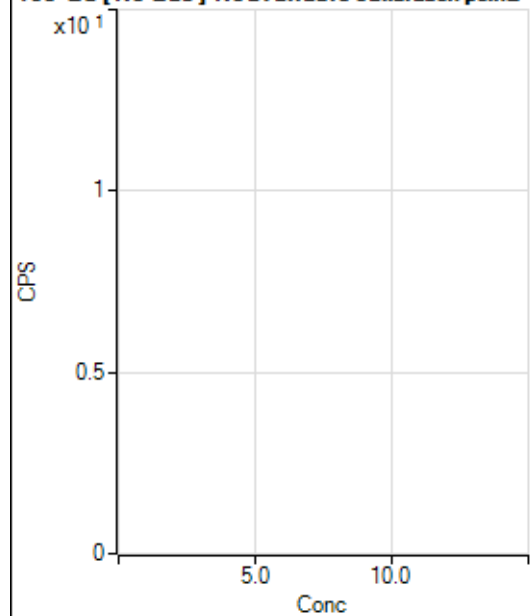
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			2.22		P	86.6
4	☐			1.11		P	173.2
5	☐			7.78		P	65.5
6	☐			13.33		P	25.0
7	☐			18.89		P	27.0
8	☐			43.33		P	13.3
9	☐			23.33		P	86.9

156 Dy [No Gas] No available calibration points

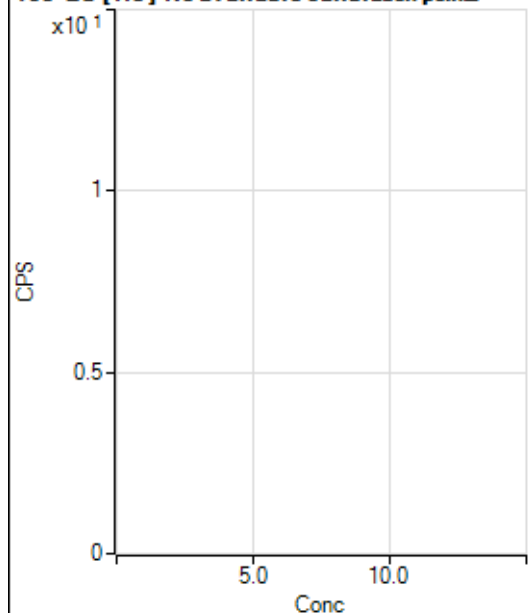
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	114.6
2	☐			5.55		P	86.6
3	☐			8.33		P	0.0
4	☐			27.78		P	17.3
5	☐			88.89		P	47.2
6	☐			175.01		P	24.7
7	☐			308.35		P	7.2
8	☐			575.03		P	8.1
9	☐			2294.70		P	1.8

156 Dy [He] No available calibration points

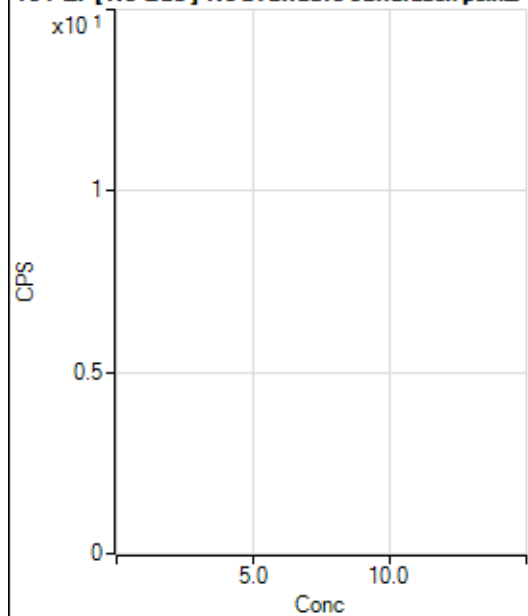
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.44		P	43.4
2	☐			2.22		P	173.2
3	☐			1.11		P	173.2
4	☐			16.67		P	72.1
5	☐			31.11		P	49.5
6	☐			40.00		P	8.3
7	☐			97.78		P	16.1
8	☐			166.67		P	2.0
9	☐			916.71		P	9.9

160 Gd [No Gas] Noavailable calibration poin_

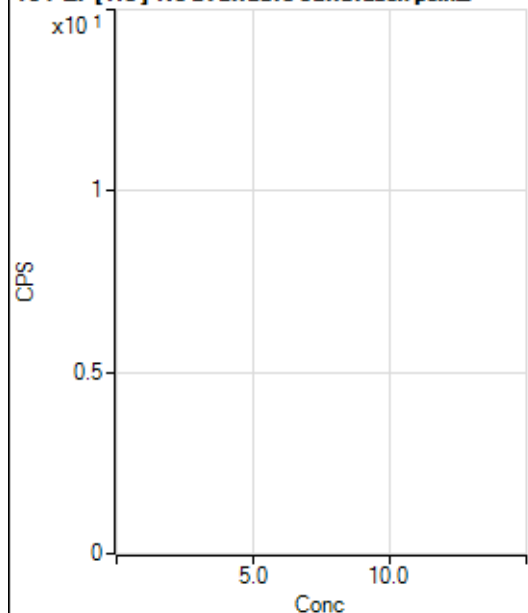
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			202.78		P	4.7
2	☐			213.90		P	19.6
3	☐			202.78		P	35.0
4	☐			236.12		P	28.5
5	☐			272.23		P	8.8
6	☐			366.68		P	7.9
7	☐			469.47		P	22.6
8	☐			608.36		P	12.3
9	☐			2497.53		P	3.3

160 Gd [He] No available calibration points

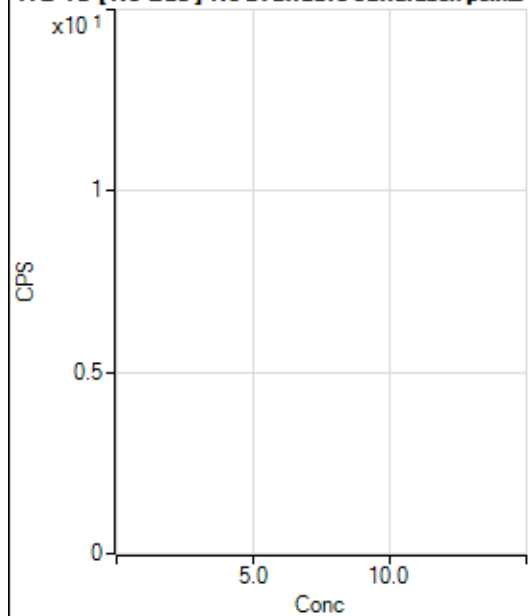
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			74.44		P	10.3
2	☐			55.56		P	17.3
3	☐			56.67		P	15.6
4	☐			78.89		P	6.5
5	☐			74.45		P	21.2
6	☐			102.22		P	13.2
7	☐			166.67		P	7.2
8	☐			270.00		P	6.9
9	☐			1088.94		P	12.3

164 Er [No Gas] No available calibration points

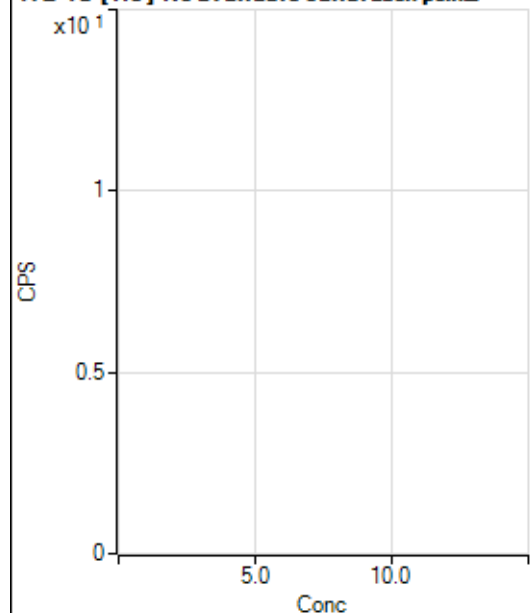
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			91.67		P	24.1
2	☐			127.78		P	38.2
3	☐			100.00		P	36.3
4	☐			100.00		P	44.1
5	☐			75.00		P	44.4
6	☐			111.11		P	17.3
7	☐			130.56		P	19.5
8	☐			177.79		P	23.1
9	☐			461.14		P	8.9

164 Er [He] No available calibration points

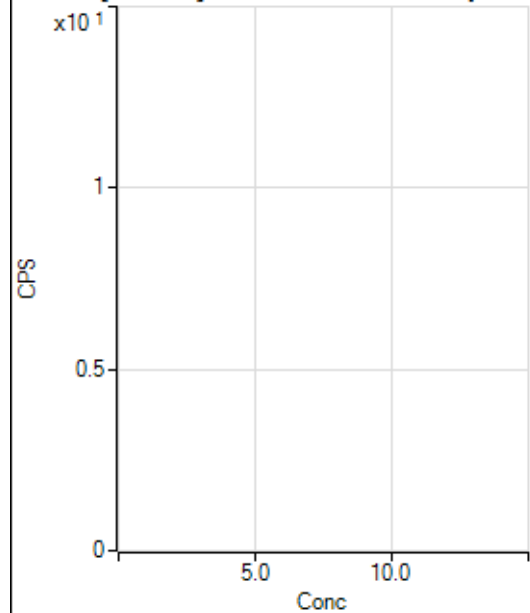
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			28.89		P	53.3
2	☐			22.22		P	22.9
3	☐			41.11		P	4.7
4	☐			41.11		P	20.4
5	☐			45.55		P	15.2
6	☐			32.22		P	39.2
7	☐			52.22		P	9.7
8	☐			75.56		P	12.7
9	☐			136.67		P	19.4

172 Yb [No Gas] No available calibration points

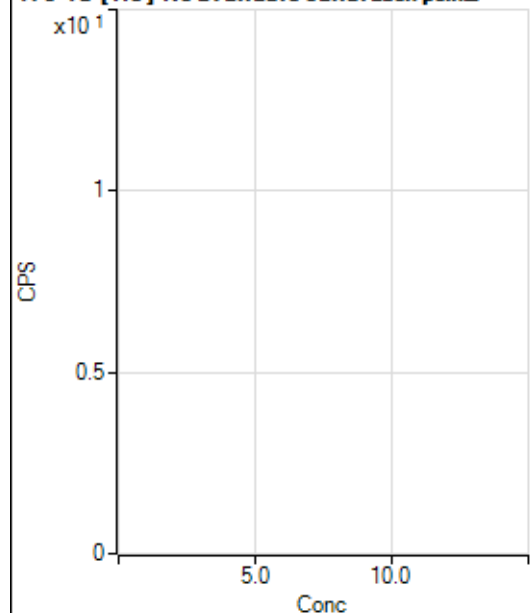
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			36.11		P	58.1
2	☐			41.67		P	34.6
3	☐			47.23		P	20.4
4	☐			50.00		P	28.9
5	☐			27.78		P	75.5
6	☐			38.89		P	65.5
7	☐			50.00		P	72.7
8	☐			27.78		P	17.3
9	☐			122.23		P	10.4

172 Yb [He] No available calibration points

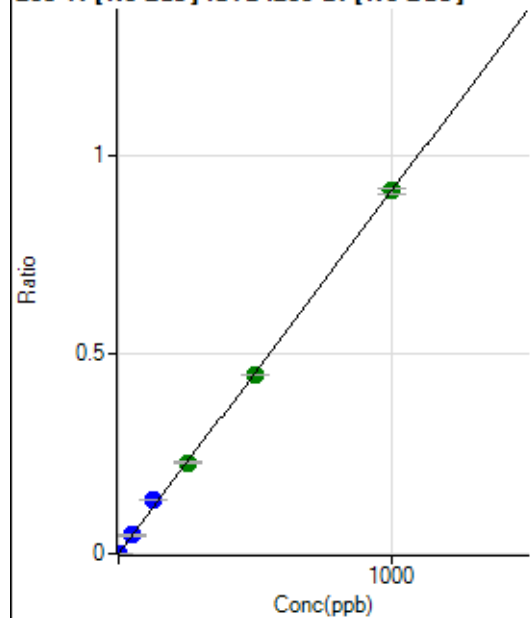
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			9.26		P	69.2
2	☐			9.26		P	91.7
3	☐			11.11		P	100.0
4	☐			29.63		P	65.8
5	☐			20.37		P	41.7
6	☐			14.82		P	57.3
7	☐			14.82		P	21.7
8	☐			18.52		P	45.8
9	☐			27.78		P	69.3

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3417.22		P	2.7
2	☐			3353.28		P	0.9
3	☐			3175.50		P	11.5
4	☐			3508.90		P	6.0
5	☐			3331.08		P	6.4
6	☐			3381.10		P	1.2
7	☐			3097.68		P	7.8
8	☐			3097.68		P	4.5
9	☐			3053.22		P	2.6

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4135.90		P	13.3
2	☐			3026.33		P	10.9
3	☐			2496.58		P	11.4
4	☐			2207.63		P	8.4
5	☐			2179.86		P	14.0
6	☐			2165.04		P	2.2
7	☐			2072.43		P	1.4
8	☐			2011.30		P	4.8
9	☐			2094.65		P	4.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	469.47	0.0001	P	12.6
2	☐	0.100	0.079	986.18	0.0001	P	10.4
3	☐	1.000	1.020	7316.18	0.0010	P	5.8
4	☐	50.000	50.340	344393.96	0.0458	P	2.0
5	☐	125.000	146.929	1002196.18	0.1337	P	1.3
6	☐	250.000	250.106	1770100.71	0.2275	A	2.8
7	☐	500.000	493.666	3511962.01	0.4491	A	0.4
8	☐	1000.000	1000.383	6881944.07	0.9099	A	1.8
9	☐			2983.76	0.0004	P	15.1

$$y = 9.0951E-004 * x + 6.4875E-005$$

$$R = 0.9997$$

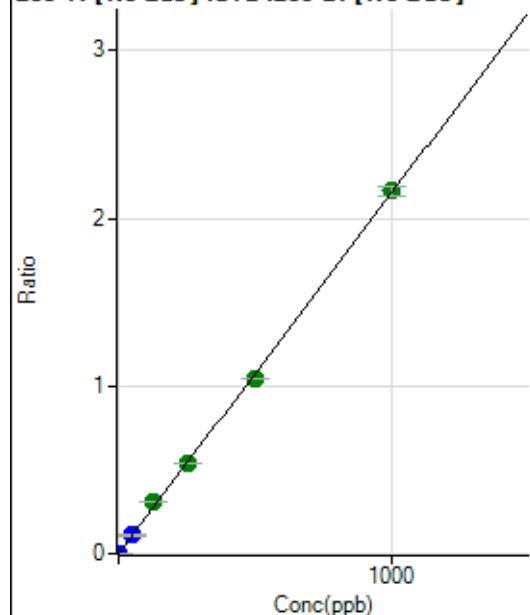
$$DL = 0.02687$$

$$BEC = 0.07133$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	919.51	0.0001	P	7.0
2	☐	0.100	0.103	2519.76	0.0003	P	8.5
3	☐	1.000	1.009	16939.33	0.0023	P	2.0
4	☐	50.000	50.675	820192.61	0.1092	P	3.0
5	☐	125.000	143.397	2315061.62	0.3088	A	0.2
6	☐	250.000	249.336	4177532.56	0.5368	A	0.7
7	☐	500.000	485.004	8165951.74	1.0441	A	0.1
8	☐	1000.000	1005.331	16366223.98	2.1641	A	2.3
9	☐			7271.70	0.0011	P	9.3

$$y = 0.0022 * x + 1.2696E-004$$

$$R = 0.9997$$

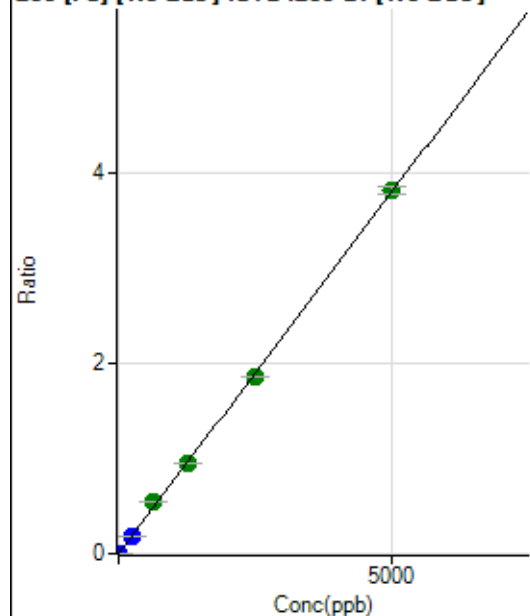
$$DL = 0.01238$$

$$BEC = 0.05898$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	351.86	0.0000	P	11.5
2	☐	0.100	0.084	813.01	0.0001	P	13.5
3	☐	1.000	0.999	5953.33	0.0008	P	2.5
4	☐	250.000	246.275	1406652.52	0.1873	P	1.8
5	☐	625.000	712.982	4063078.50	0.5420	A	1.5
6	☐	1250.000	1246.057	7372339.69	0.9473	A	1.4
7	☐	2500.000	2441.626	14517330.07	1.8561	A	0.5
8	☐	5000.000	5019.361	28857141.39	3.8157	A	2.1
9	☐			32052.97	0.0047	P	2.4

$$y = 7.6018E-004 * x + 4.8650E-005$$

$$R = 0.9997$$

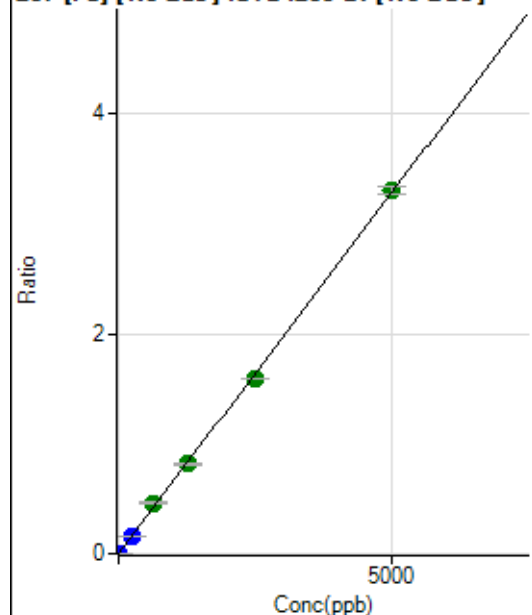
$$DL = 0.02214$$

$$BEC = 0.064$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	285.19	0.0000	P	9.5
2	☐	0.100	0.100	759.30	0.0001	P	5.9
3	☐	1.000	1.000	5128.89	0.0007	P	2.4
4	☐	250.000	245.985	1214171.25	0.1616	P	0.9
5	☐	625.000	704.783	3470547.97	0.4630	A	1.7
6	☐	1250.000	1239.908	6338651.53	0.8145	A	0.6
7	☐	2500.000	2431.948	12494778.40	1.5976	A	0.4
8	☐	5000.000	5026.777	24974159.13	3.3021	A	2.1
9	☐			28422.26	0.0042	P	3.0

$$y = 6.5690E-004 * x + 3.9306E-005$$

$$R = 0.9997$$

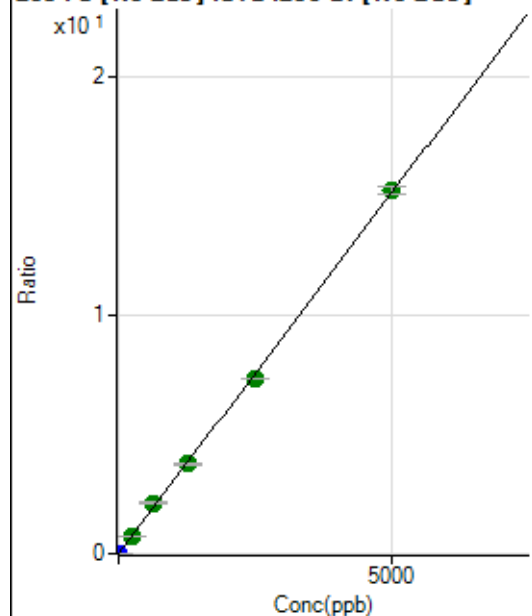
$$DL = 0.01698$$

$$BEC = 0.05984$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1242.64	0.0002	P	2.6
2	☐	0.100	0.098	3374.31	0.0005	P	3.2
3	☐	1.000	0.994	23391.97	0.0032	P	1.7
4	☐	250.000	243.902	5535240.76	0.7368	A	0.8
5	☐	625.000	703.576	15929870.12	2.1252	A	1.8
6	☐	1250.000	1240.300	29151785.55	3.7463	A	1.4
7	☐	2500.000	2429.737	57394383.69	7.3388	A	0.4
8	☐	5000.000	5028.039	114856714.8	15.1865	A	2.2
9	☐			128292.76	0.0187	P	2.6

$$y = 0.0030 * x + 1.7157E-004$$

$$R = 0.9997$$

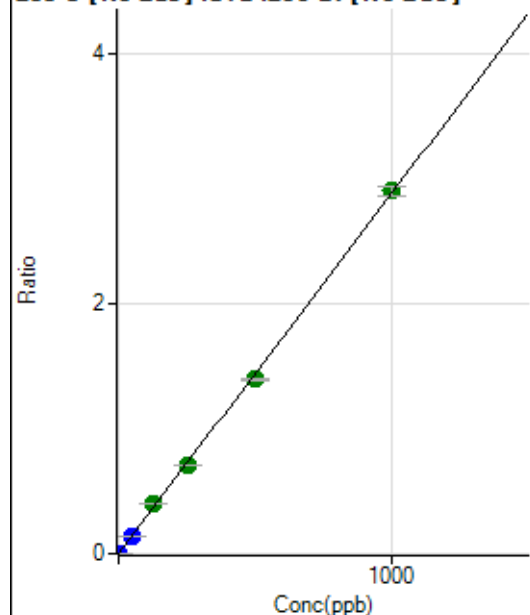
$$DL = 0.004433$$

$$BEC = 0.05681$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13.89	0.0000	P	69.1
2	☐	0.100	0.091	1905.75	0.0003	P	7.6
3	☐	1.000	0.970	20617.26	0.0028	P	1.5
4	☐	50.000	48.574	1052009.41	0.1400	P	1.0
5	☐	125.000	137.438	2970179.60	0.3962	A	1.6
6	☐	250.000	245.693	5511387.06	0.7083	A	1.7
7	☐	500.000	484.405	10921855.88	1.3965	A	0.6
8	☐	1000.000	1007.391	21962707.61	2.9043	A	2.7
9	☐			7249.55	0.0011	P	13.2

$$y = 0.0029 * x + 1.9156E-006$$

$$R = 0.9997$$

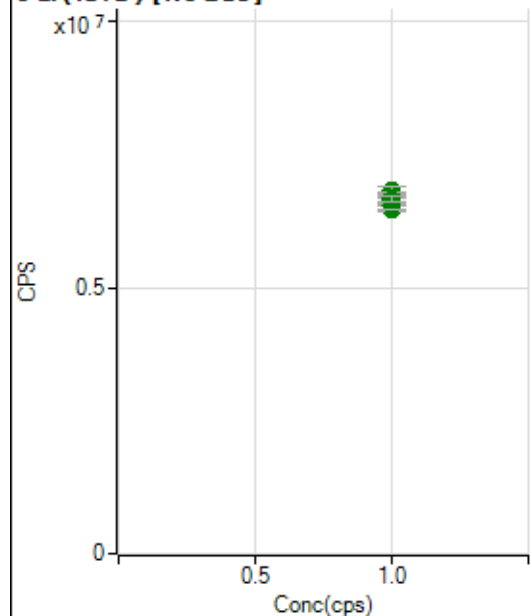
$$DL = 0.001377$$

$$BEC = 0.0006644$$

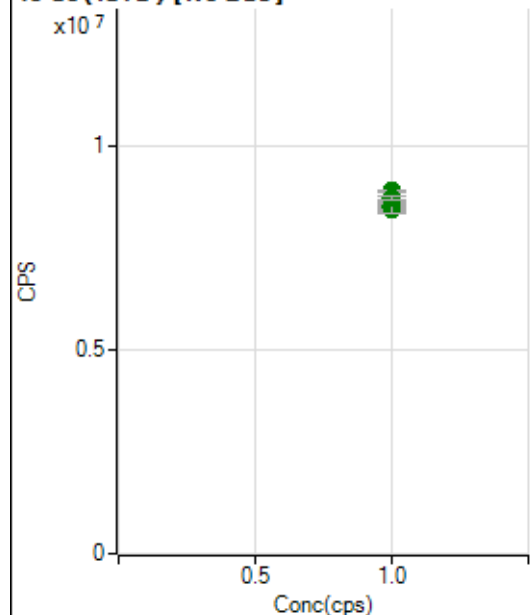
Weight: <None>

Min Conc: 0

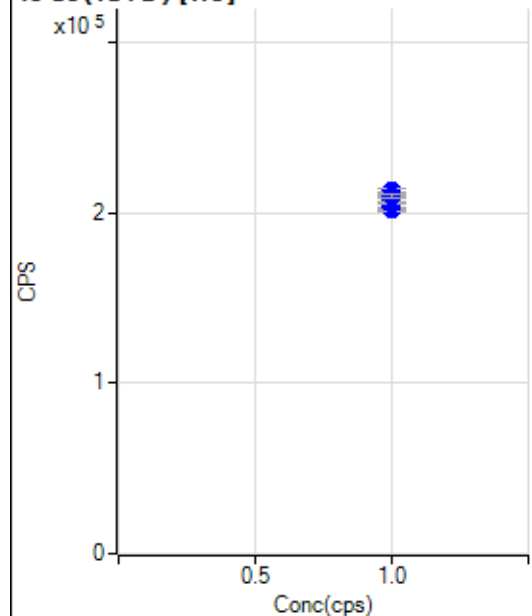
6 Li (ISTD) [No Gas]



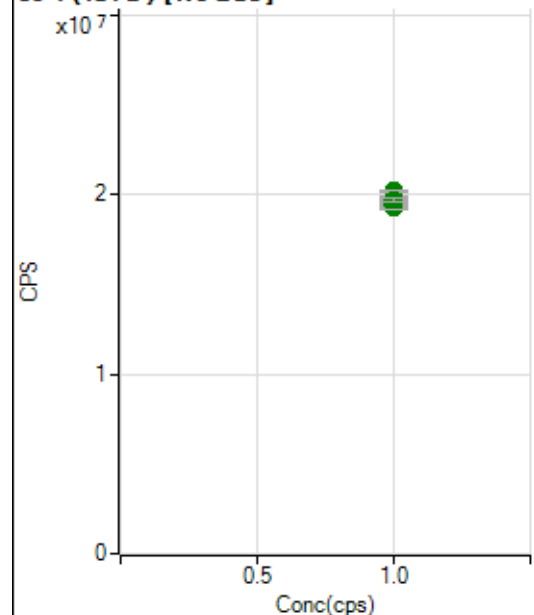
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6490366.96		A	2.0
2	☐	1.000		6567015.88		A	0.7
3	☐	1.000		6538037.43		A	1.6
4	☐	1.000		6739262.67		A	1.4
5	☐	1.000		6680707.51		A	3.3
6	☐	1.000		6691373.34		A	1.9
7	☐	1.000		6822000.71		A	2.9
8	☐	1.000		6702257.99		A	3.2
9	☐	1.000		6662617.34		A	1.7

45 Sc (ISTD) [No Gas]

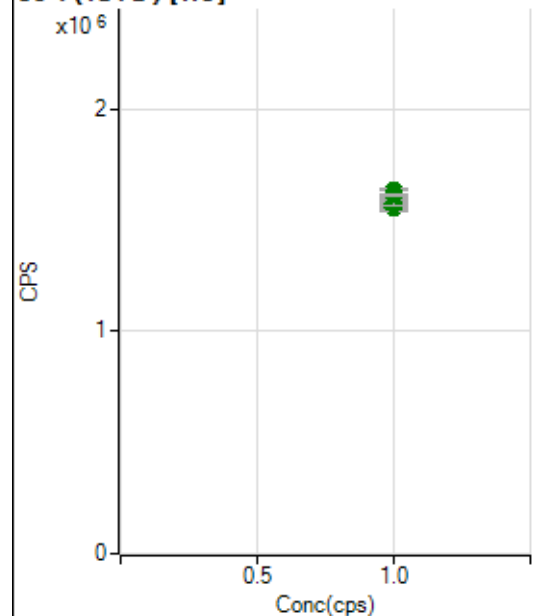
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8415371.68		A	0.9
2	☐	1.000		8422693.00		A	1.9
3	☐	1.000		8592980.98		A	0.7
4	☐	1.000		8881600.08		A	0.2
5	☐	1.000		8696870.43		A	1.8
6	☐	1.000		8522316.12		A	1.9
7	☐	1.000		8516501.12		A	1.7
8	☐	1.000		8481746.54		A	3.3
9	☐	1.000		8715471.19		A	1.1

45 Sc (ISTD) [He]

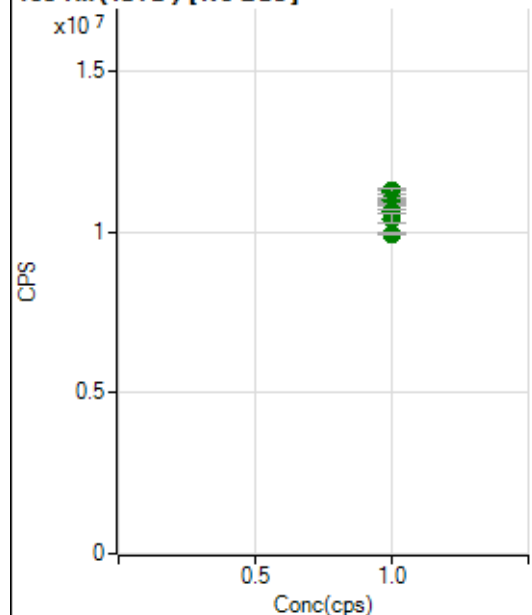
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		203693.98		P	1.9
2	☐	1.000		205201.75		P	1.8
3	☐	1.000		208953.31		P	0.4
4	☐	1.000		212893.87		P	0.9
5	☐	1.000		207122.07		P	1.2
6	☐	1.000		202333.92		P	0.8
7	☐	1.000		203091.92		P	2.0
8	☐	1.000		205653.83		P	0.7
9	☐	1.000		209950.56		P	1.0

89 Y (ISTD) [No Gas]

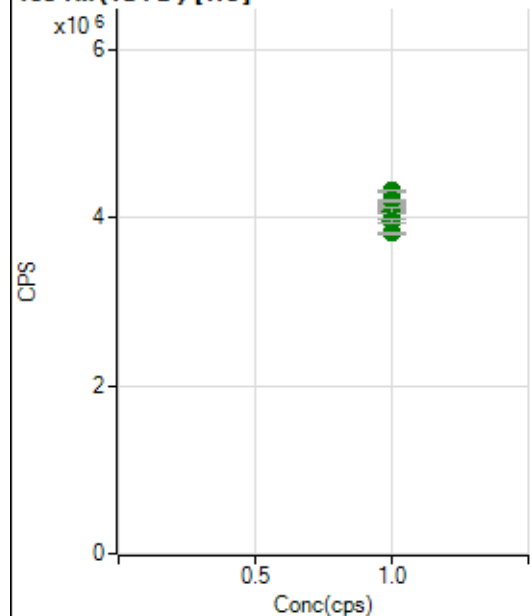
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		19339097.49		A	1.8
2	☐	1.000		19241550.41		A	1.2
3	☐	1.000		19859837.62		A	0.7
4	☐	1.000		20184776.09		A	0.6
5	☐	1.000		19728919.43		A	2.0
6	☐	1.000		19499576.79		A	1.5
7	☐	1.000		19520464.71		A	2.6
8	☐	1.000		19387671.24		A	2.9
9	☐	1.000		19686475.12		A	0.7

89 Y (ISTD) [He]

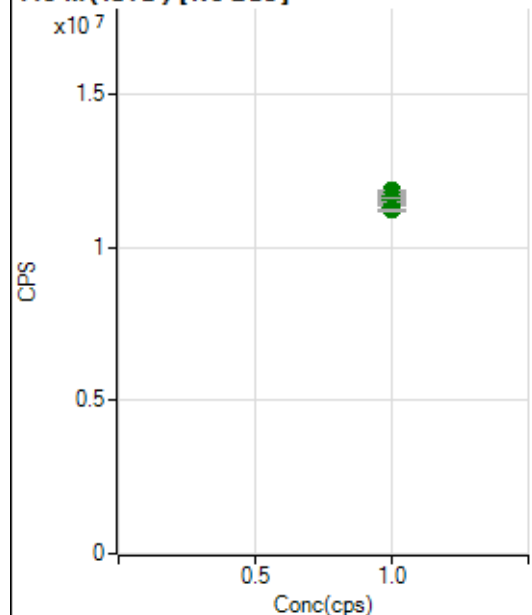
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1556897.41		A	0.6
2	☐	1.000		1587610.30		A	1.4
3	☐	1.000		1591844.38		A	1.8
4	☐	1.000		1633334.70		A	1.3
5	☐	1.000		1622332.25		A	1.9
6	☐	1.000		1557088.93		A	1.5
7	☐	1.000		1587219.39		A	0.3
8	☐	1.000		1578548.62		A	1.5
9	☐	1.000		1616446.35		A	0.5

103 Rh (ISTD) [No Gas]

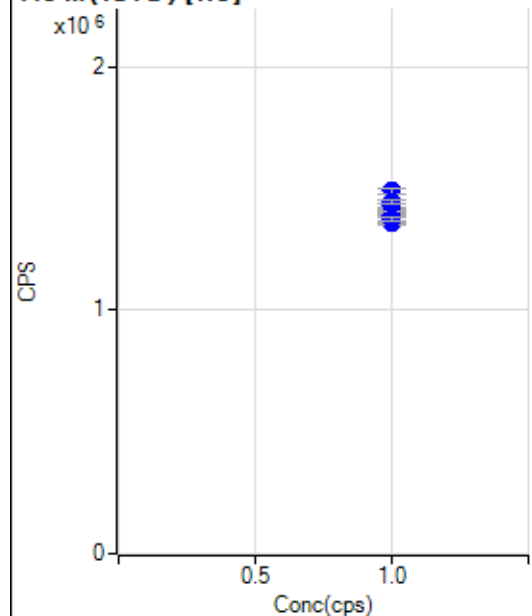
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10865487.75		A	0.6
2	☐	1.000		10956760.23		A	1.2
3	☐	1.000		11240282.45		A	1.2
4	☐	1.000		11280915.18		A	1.5
5	☐	1.000		10979906.41		A	1.1
6	☐	1.000		10845348.42		A	0.2
7	☐	1.000		10646999.81		A	1.5
8	☐	1.000		10423895.89		A	2.6
9	☐	1.000		9952842.32		A	0.3

103 Rh (ISTD) [He]

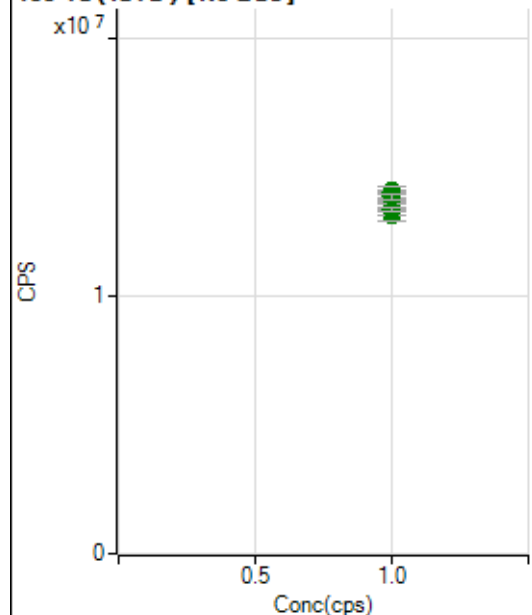
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4102739.14		A	0.8
2	☐	1.000		4132814.80		A	1.4
3	☐	1.000		4130475.25		A	0.5
4	☐	1.000		4312883.62		A	0.4
5	☐	1.000		4197761.85		A	0.2
6	☐	1.000		4050697.47		A	0.6
7	☐	1.000		4079227.09		A	1.2
8	☐	1.000		3961754.07		A	1.2
9	☐	1.000		3808744.56		A	0.4

115 In (ISTD) [No Gas]

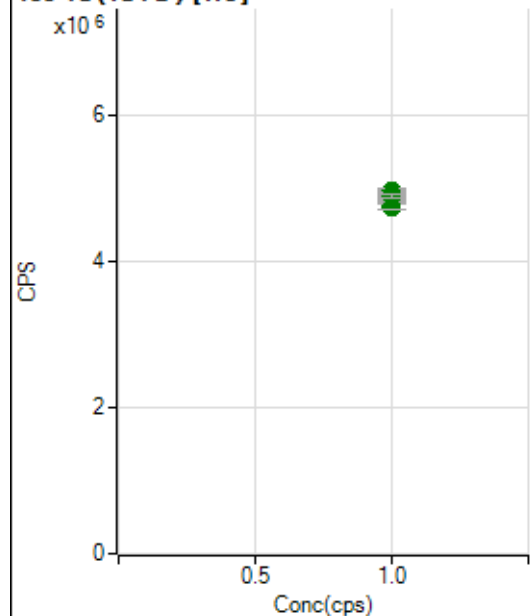
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		11449246.03		A	1.6
2	☐	1.000		11667862.26		A	2.2
3	☐	1.000		11562670.21		A	2.0
4	☐	1.000		11844672.52		A	0.7
5	☐	1.000		11699601.97		A	2.4
6	☐	1.000		11658507.75		A	1.1
7	☐	1.000		11521456.65		A	1.8
8	☐	1.000		11324635.71		A	3.0
9	☐	1.000		11215700.88		A	0.8

115 In (ISTD) [He]

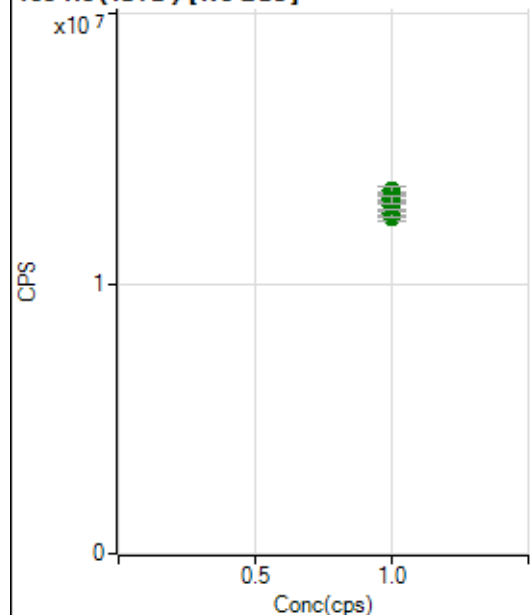
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1417751.30		P	0.8
2	☐	1.000		1430279.79		P	1.5
3	☐	1.000		1438509.58		P	0.4
4	☐	1.000		1490455.60		P	1.4
5	☐	1.000		1444918.43		P	1.1
6	☐	1.000		1395031.57		P	1.0
7	☐	1.000		1392085.18		P	1.6
8	☐	1.000		1358386.24		P	0.5
9	☐	1.000		1375461.06		P	0.8

159 Tb (ISTD) [No Gas]

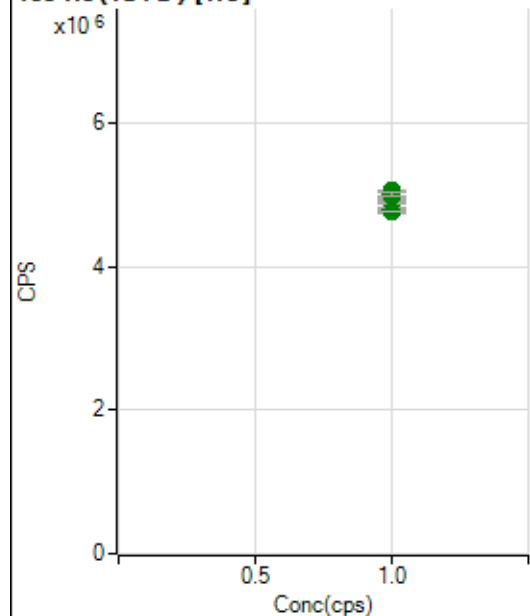
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		13152288.14		A	3.3
2	☐	1.000		13272059.25		A	2.1
3	☐	1.000		13380811.61		A	1.2
4	☐	1.000		13816437.85		A	2.0
5	☐	1.000		13791312.43		A	2.4
6	☐	1.000		14093762.01		A	0.4
7	☐	1.000		13867632.01		A	1.6
8	☐	1.000		14043202.43		A	3.2
9	☐	1.000		13857634.79		A	2.0

159 Tb (ISTD) [He]

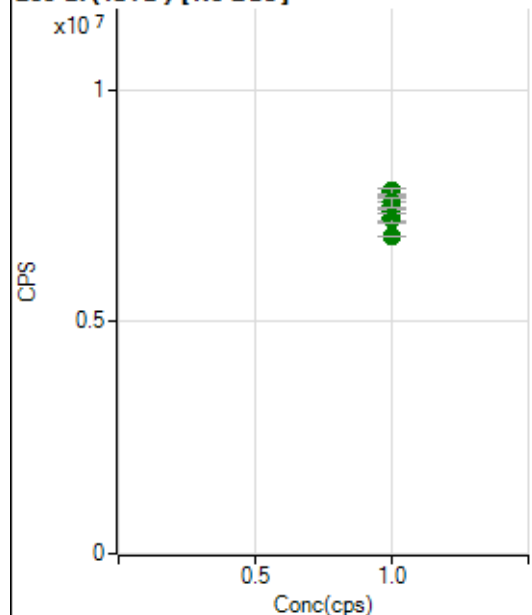
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4756956.28		A	1.5
2	☐	1.000		4775600.28		A	2.4
3	☐	1.000		4842803.61		A	0.9
4	☐	1.000		4925512.11		A	1.4
5	☐	1.000		4955859.54		A	0.8
6	☐	1.000		4894842.46		A	1.1
7	☐	1.000		4974187.19		A	1.6
8	☐	1.000		4919569.27		A	1.4
9	☐	1.000		4902263.50		A	1.2

165 Ho (ISTD) [No Gas]

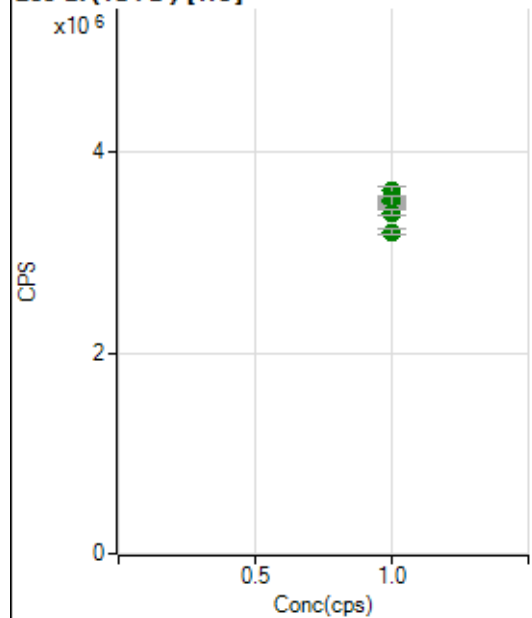
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		12454688.39		A	1.6
2	☐	1.000		12445994.20		A	2.2
3	☐	1.000		12595043.69		A	1.7
4	☐	1.000		12868947.51		A	1.5
5	☐	1.000		12891593.69		A	2.3
6	☐	1.000		13171791.79		A	2.7
7	☐	1.000		13253560.89		A	2.4
8	☐	1.000		13451043.44		A	2.4
9	☐	1.000		13106784.14		A	1.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4775908.30		A	0.9
2	☐	1.000		4800955.80		A	1.5
3	☐	1.000		4798603.71		A	0.8
4	☐	1.000		5059188.88		A	0.5
5	☐	1.000		4961584.89		A	0.8
6	☐	1.000		4894736.14		A	0.8
7	☐	1.000		4997315.17		A	2.0
8	☐	1.000		4977014.86		A	0.8
9	☐	1.000		5022615.14		A	1.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7244861.35		A	2.5
2	☐	1.000		7233681.77		A	3.0
3	☐	1.000		7368650.45		A	1.0
4	☐	1.000		7512850.45		A	1.7
5	☐	1.000		7497045.58		A	1.8
6	☐	1.000		7782611.76		A	2.3
7	☐	1.000		7820977.87		A	1.3
8	☐	1.000		7565497.18		A	2.6
9	☐	1.000		6845923.23		A	0.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3480216.27		A	0.7
2	☐	1.000		3490453.14		A	1.7
3	☐	1.000		3546269.18		A	0.2
4	☐	1.000		3619477.27		A	2.6
5	☐	1.000		3531433.04		A	0.6
6	☐	1.000		3519474.84		A	1.8
7	☐	1.000		3527950.67		A	2.8
8	☐	1.000		3401922.66		A	1.4
9	☐	1.000		3213337.28		A	1.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8071621 MS .b
Acq. Date-Time 2021-07-16 11:49:19
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		22590	225901.55			0.583	5.000
24		163433	1634325.18			0.737	5.000
25		23904	239040.68			0.497	5.000
26		28043	280426.48			0.482	5.000
59		34213	342134.16			0.781	5.000
113		16146	161461.55			0.861	5.000
115		51670	516698.91			1.367	5.000
206		19323	193233.39			1.036	5.000
207		15942	159424.09			1.116	5.000
208		39294	392936.52			0.977	5.000
220		0	4.50			28.328	

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

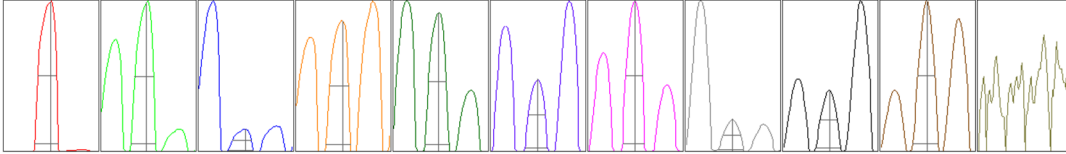
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	22718	22419	22576	22514	22723
24	164546	162775	161668	164373	163800
25	23953	24024	23720	23964	23858
26	28085	28135	27851	28182	27960
59	34514	33906	34150	34031	34466
113	16329	16204	15950	16103	16145
115	52890	51664	51318	51320	51158
206	19642	19176	19159	19249	19391
207	16188	15727	15827	15948	16022
208	39811	39198	38783	39184	39492

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	39388.93	9.00	8.90 - 9.10	
24	288124.27	23.95	23.90 - 24.10	
25	41650.73	25.00	24.90 - 25.10	
26	47535.89	26.00	25.90 - 26.10	
59	63755.20	58.95	58.90 - 59.10	
113	31726.28	113.00	112.90 - 113.10	
115	101592.06	115.00	114.90 - 115.10	
206	36782.33	206.00	205.90 - 206.10	
207	30693.62	207.00	206.90 - 207.10	
208	75533.17	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.739	0.900	
24	0.60	0.781	0.900	
25	0.60	0.778	0.900	
26	0.61	0.778	0.900	
59	0.56	0.773	0.900	
113	0.54	0.699	0.900	
115	0.53	0.692	0.900	
206	0.55	0.782	0.900	
207	0.55	0.790	0.900	
208	0.55	0.809	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.75 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	9.5 V	Deflect	15.6 V
Extract 2	-170.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-85 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	123	Axis Gain	0.9995	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.05		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.8 mm
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EM

Discriminator	4.0 mV	Analog HV	2207 V	Pulse HV	1535 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		5945	59454.46			0.948	
89		26062	260618.22			1.113	
205		45277	452769.53			0.898	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	5896	5916	5906	6026	5983
89	25706	25891	25996	26382	26334
205	45166	44919	44888	45686	45727

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 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	9.5 V	Deflect	5.4 V
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US EPA Tune Check Report

Extract 2	-170.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-85 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	190 V		
QP Parameters					
Mass Gain	123	Axis Gain	0.9995	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.05		
Hardware Settings					
Torch					
Torch H	1.0 mm	Torch V	-0.8 mm		
EM					
Discriminator	4.0 mV	Analog HV	2207 V	Pulse HV	1535 V