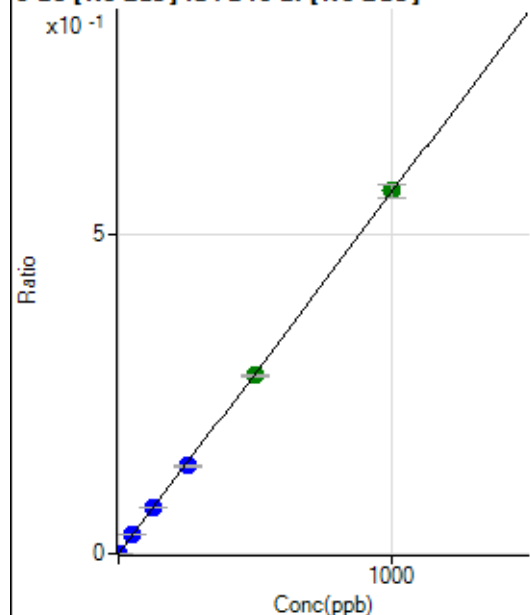


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8102821-MS.b\
Analysis File: P8102821-MS.batch.bin
DA Date-Time: 2021-10-29 00:40:51
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-10-28 11:32:25
2	005CALS.d	S02	2021-10-28 11:38:35
3	006CALS.d	S03	2021-10-28 11:41:40
4	007CALS.d	S04	2021-10-28 11:44:44
5	008CALS.d	S05	2021-10-28 11:47:50
6	009CALS.d	S06	2021-10-28 11:50:53
7	012CALS.d	S07	2021-10-28 12:01:19
8	013CALS.d	S08	2021-10-28 12:04:22

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	69.98	0.0000	P	23.3
2	☐	1.000	1.010	3193.06	0.0006	P	3.5
3	☐	50.000	50.684	164981.59	0.0287	P	0.2
4	☐	125.000	128.633	404413.34	0.0727	P	1.9
5	☐	250.000	242.791	800223.33	0.1372	P	0.5
6	☐	500.000	493.340	1585227.71	0.2788	A	1.7
7	☐	1000.000	1004.644	3257350.05	0.5677	A	3.9
8	☐			615.90	0.0001	P	6.8

$$y = 5.6503\text{E-}004 * x + 1.2547\text{E-}005$$

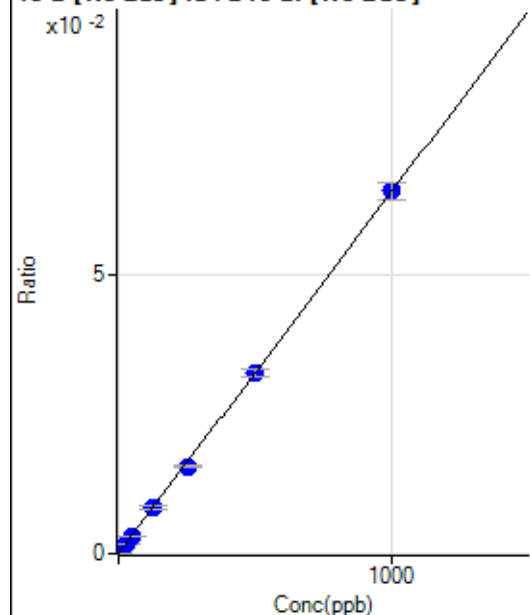
$$R = 0.9999$$

$$DL = 0.01553$$

$$BEC = 0.02221$$

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	281.28	0.0001	P	13.1
2	☐	25.000	24.416	8957.67	0.0016	P	4.1
3	☐	50.000	48.039	18247.10	0.0032	P	3.7
4	☐	125.000	125.137	45432.51	0.0082	P	7.8
5	☐	250.000	240.922	91514.94	0.0157	P	2.6
6	☐	500.000	498.855	184461.79	0.0324	P	3.7
7	☐	1000.000	1002.937	373823.72	0.0652	P	4.6
8	☐			36480.65	0.0065	P	7.8

$$y = 6.4910\text{E-}005 * x + 5.0508\text{E-}005$$

$$R = 1.0000$$

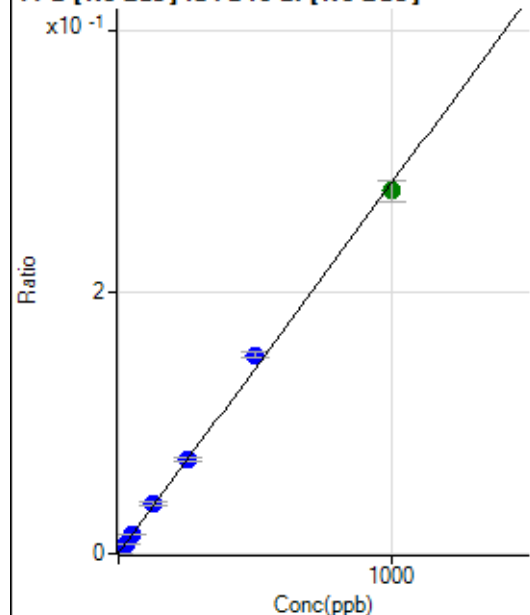
$$DL = 0.3062$$

$$BEC = 0.7781$$

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	1299.80	0.0002	P	8.8
2	☐	25.000	26.134	41837.87	0.0076	P	5.3
3	☐	50.000	51.342	85096.82	0.0148	P	6.6
4	☐	125.000	132.934	210660.82	0.0379	P	6.5
5	☐	250.000	255.896	424188.35	0.0727	P	4.4
6	☐	500.000	536.009	864912.84	0.1521	P	3.0
7	☐	1000.000	979.434	1593702.94	0.2777	A	5.6
8	☐			170542.86	0.0302	P	10.2

$$y = 2.8327E-004 * x + 2.3389E-004$$

$$R = 0.9990$$

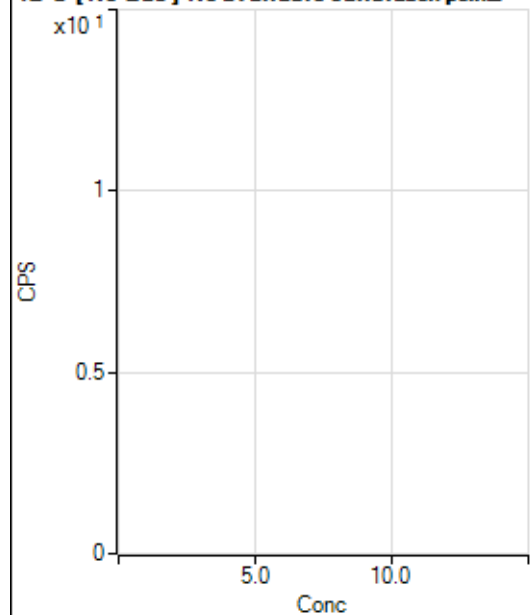
$$DL = 0.2176$$

$$BEC = 0.8257$$

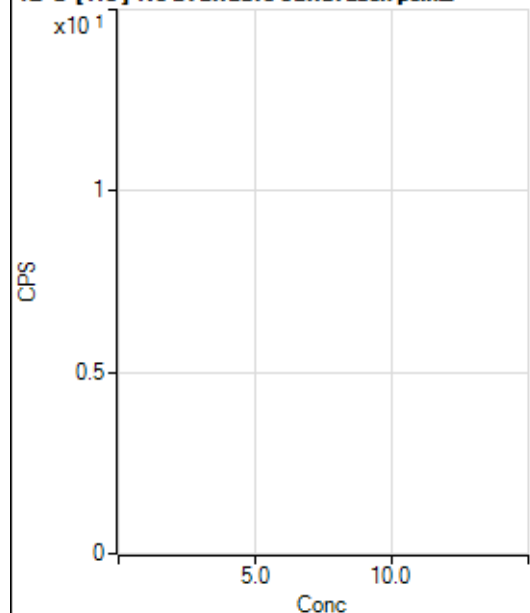
Weight: <None>

Min Conc: 0

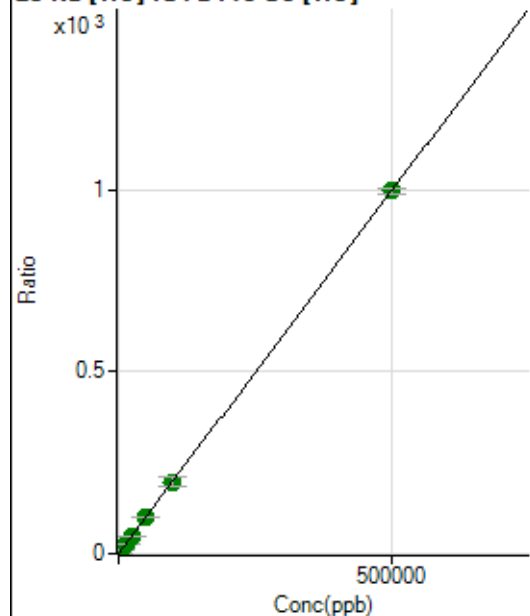
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6128878.00		A	1.2
2	☐			6088751.57		A	1.2
3	☐			6802222.63		A	0.6
4	☐			6933395.99		A	0.3
5	☐			7068690.96		A	0.5
6	☐			7705222.57		A	0.8
7	☐			8438522.41		A	3.7
8	☐			7939522.31		A	2.5

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			57494.02		P	1.9
2	☐			57235.08		P	1.4
3	☐			66657.30		P	0.6
4	☐			66506.91		P	0.2
5	☐			70090.00		P	0.7
6	☐			76731.93		P	1.0
7	☐			86516.05		P	1.9
8	☐			83987.71		P	0.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	24061.97	0.1008	P	2.0
2	☐	500.000	496.964	255486.78	1.0903	P	1.0
3	☐	5000.000	5383.560	2535921.06	10.8204	A	2.7
4	☐	12500.000	12899.046	6151181.52	25.7852	A	2.0
5	☐	25000.000	24779.553	12302156.87	49.4415	A	0.8
6	☐	50000.000	50212.481	24374812.18	100.0833	A	2.3
7	☐	100000.00	99011.219	50788854.26	197.2508	A	11.6
8	☐	500000.00	500173.72	246981091.6	996.0410	A	1.8

$$y = 0.0020 * x + 0.1008$$

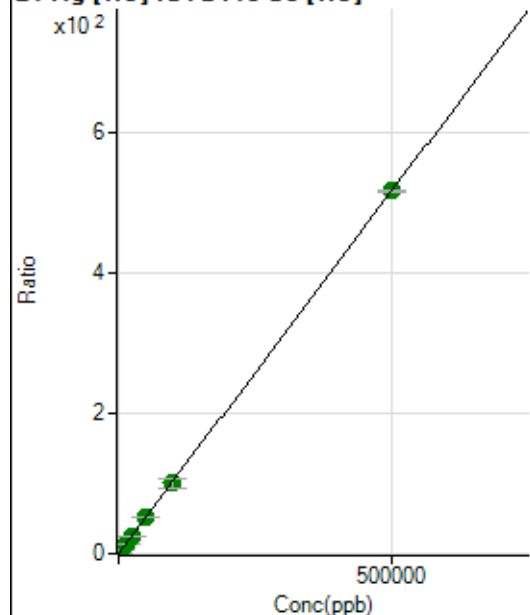
$$R = 1.0000$$

$$DL = 2.964$$

$$BEC = 50.6$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1027.84	0.0043	P	8.2
2	☐	500.000	493.235	120152.45	0.5128	P	0.5
3	☐	5000.000	5418.331	1310237.95	5.5900	A	1.5
4	☐	12500.000	12979.223	3192601.76	13.3844	A	0.6
5	☐	25000.000	24800.200	6361506.65	25.5704	A	2.5
6	☐	50000.000	50150.156	12592989.95	51.7033	A	1.7
7	☐	100000.00	97469.630	25862822.97	100.4842	A	12.2
8	☐	500000.00	500484.89	127947600.0	515.9465	A	0.9

$$y = 0.0010 * x + 0.0043$$

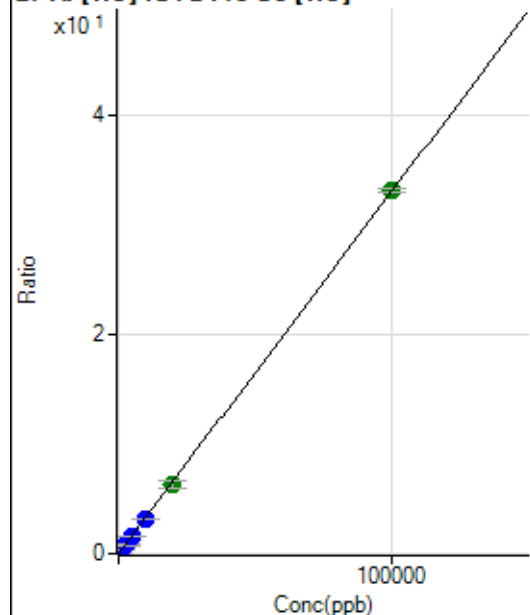
$$R = 1.0000$$

$$DL = 1.03$$

$$BEC = 4.173$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	144.57	0.0006	P	15.9
2	☐	20.000	19.257	1628.64	0.0070	P	3.5
3	☐	1000.000	1006.826	77904.45	0.3325	P	3.0
4	☐	2500.000	2413.186	189819.76	0.7960	P	2.8
5	☐	5000.000	4664.462	382655.54	1.5381	P	1.6
6	☐	10000.000	9501.992	762932.24	3.1325	P	2.1
7	☐	20000.000	19042.708	1617095.91	6.2772	A	10.9
8	☐	100000.00	100260.13	8194754.10	33.0472	A	1.2

$$y = 3.2961E-004 * x + 6.0473E-004$$

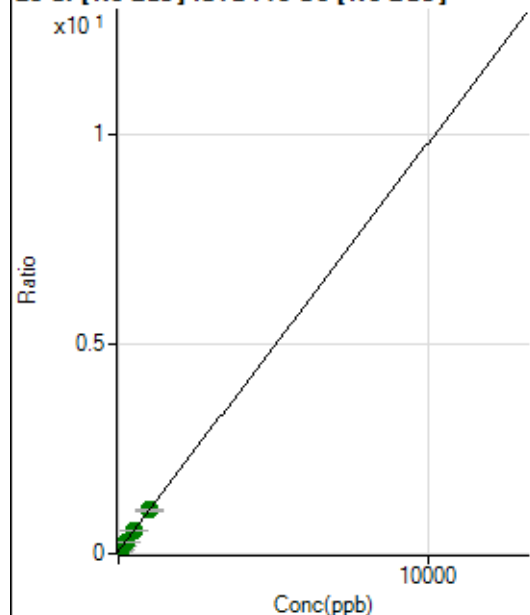
$$R = 0.9999$$

$$DL = 0.8727$$

$$BEC = 1.835$$

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	517700.39	0.0583	P	2.9
2	☐	10.000	9.501	610200.36	0.0675	P	2.7
3	☐	50.000	47.138	987708.25	0.1042	A	0.5
4	☐	125.000	122.003	1631656.92	0.1771	A	3.9
5	☐	250.000	239.909	2749860.04	0.2920	A	1.6
6	☐	500.000	499.757	5127188.66	0.5451	A	1.1
7	☐	1000.000	1003.167	9678411.16	1.0355	A	5.0
8	☐			1586560.09	0.1695	A	7.5

$$y = 9.7417E-004 * x + 0.0583$$

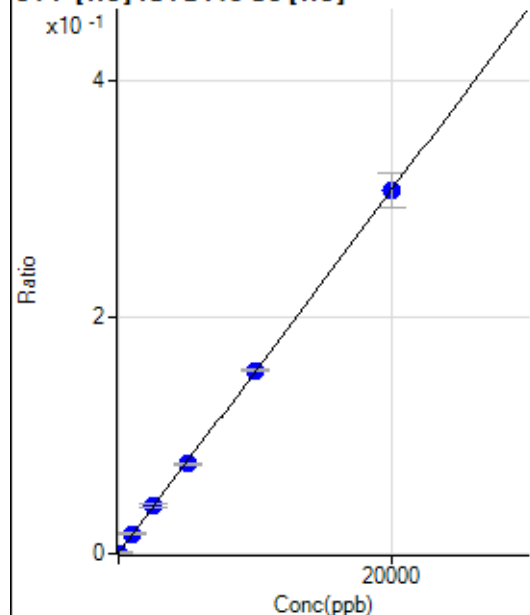
R = 0.9999

DL = 5.131

BEC = 59.82

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	-15.253	61.11	0.0003	P	67.2
2	☐	0.000	15.253	169.45	0.0007	P	27.3
3	☐	1000.000	1070.441	3953.44	0.0169	P	8.9
4	☐	2500.000	2616.387	9672.92	0.0406	P	4.8
5	☐	5000.000	4918.705	18862.70	0.0758	P	2.5
6	☐	10000.000	10086.756	37744.32	0.1550	P	1.9
7	☐	20000.000	19958.875	78937.99	0.3062	P	9.7
8	☐			127.78	0.0005	P	30.1

$$y = 1.5315E-005 * x + 4.8963E-004$$

R = 1.0000

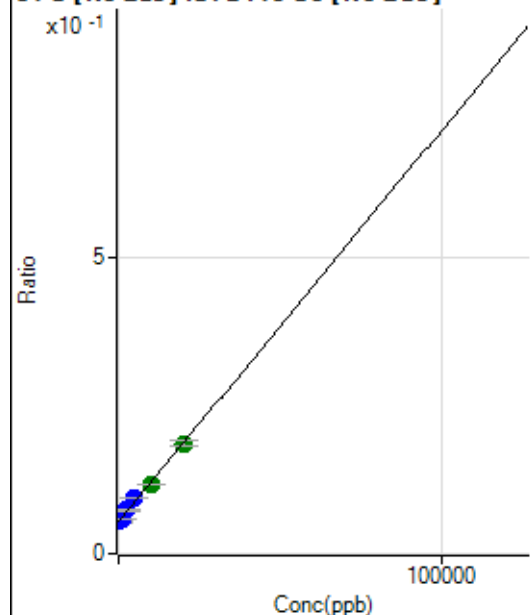
DL = 36.18

BEC = 31.97

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	2.249	480569.25	0.0541	P	3.3
2	☐	0.000	-2.249	488575.44	0.0541	P	2.5
3	☐	1000.000	764.565	560707.82	0.0592	P	2.0
4	☐	2500.000	2920.285	676931.27	0.0735	P	1.6
5	☐	5000.000	5976.922	883146.63	0.0938	P	0.7
6	☐	10000.000	9436.639	1098063.28	0.1167	A	0.1
7	☐	20000.000	19996.686	1746755.51	0.1869	A	4.1
8	☐			475364.92	0.0507	P	3.2

$$y = 6.6403E-006 * x + 0.0541$$

$$R = 0.9977$$

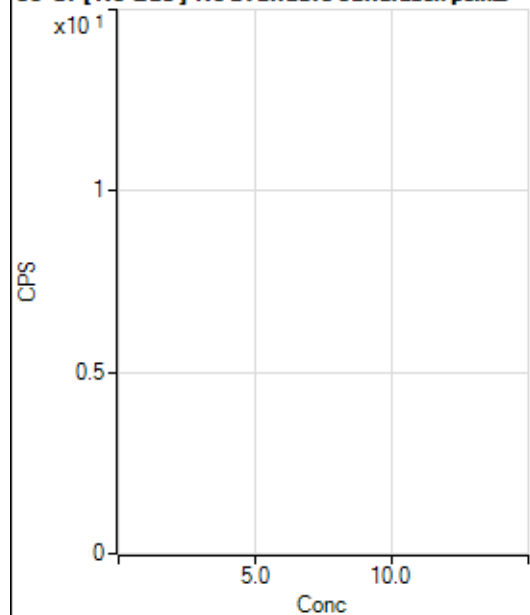
$$DL = 705.2$$

$$BEC = 8144$$

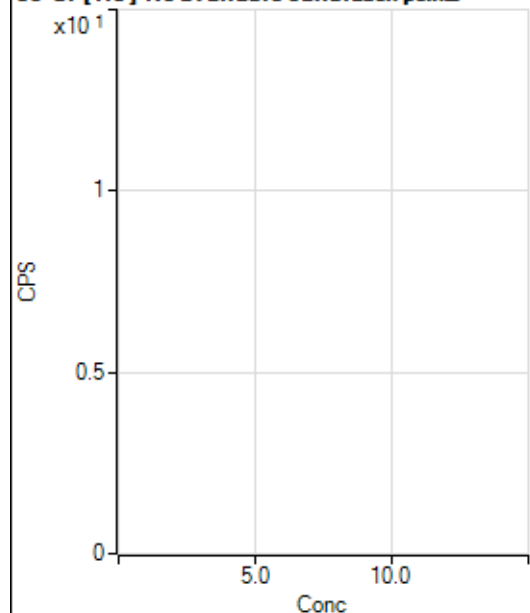
Weight: <None>

Min Conc: 0

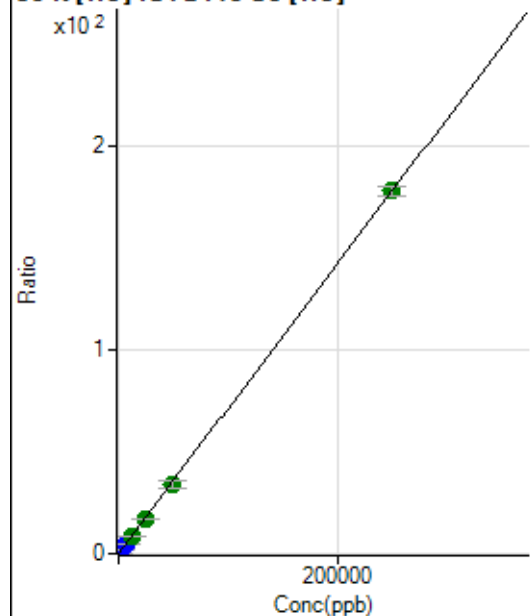
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			421788.61		P	0.5
2	☐			377648.30		P	1.7
3	☐			364931.82		P	0.9
4	☐			351759.87		P	1.2
5	☐			338411.95		P	0.8
6	☐			338734.53		P	1.8
7	☐			324551.66		P	0.7
8	☐			314459.86		P	1.5

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2127.99		P	6.7
2	☐			1914.07		P	7.2
3	☐			1555.69		P	7.0
4	☐			1569.57		P	2.9
5	☐			1719.60		P	9.4
6	☐			1664.03		P	6.8
7	☐			1716.82		P	6.4
8	☐			1655.69		P	6.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	14229.53	0.0596	P	3.8
2	☐	500.000	465.088	91322.31	0.3898	P	1.7
3	☐	2500.000	2541.703	436870.06	1.8641	P	1.8
4	☐	6250.000	6131.368	1052211.52	4.4126	P	3.1
5	☐	12500.000	11875.421	2112522.94	8.4906	A	1.0
6	☐	25000.000	23937.651	4153388.37	17.0543	A	2.5
7	☐	50000.000	47324.713	8671284.39	33.6581	A	10.8
8	☐	250000.00	250675.14	44144589.53	178.0284	A	2.4

$$y = 7.0996E-004 * x + 0.0596$$

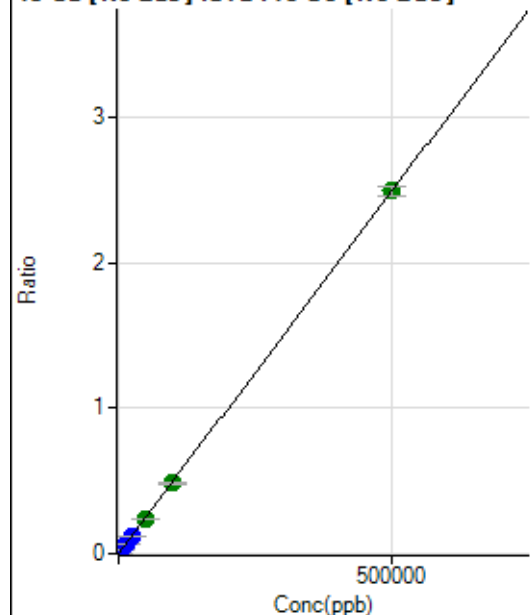
$$R = 0.9999$$

$$DL = 9.495$$

$$BEC = 83.93$$

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	786.88	0.0001	P	4.3
2	☐	500.000	454.567	21240.51	0.0024	P	2.2
3	☐	5000.000	4766.930	225652.48	0.0238	P	1.8
4	☐	12500.000	12094.981	555308.85	0.0603	P	1.0
5	☐	25000.000	23506.505	1102371.42	0.1170	P	1.2
6	☐	50000.000	48309.440	2261533.67	0.2405	A	1.7
7	☐	100000.00	96913.113	4509537.68	0.4823	A	2.3
8	☐	500000.00	500873.61	23349239.92	2.4923	A	2.8

$$y = 4.9757E-006 * x + 8.8592E-005$$

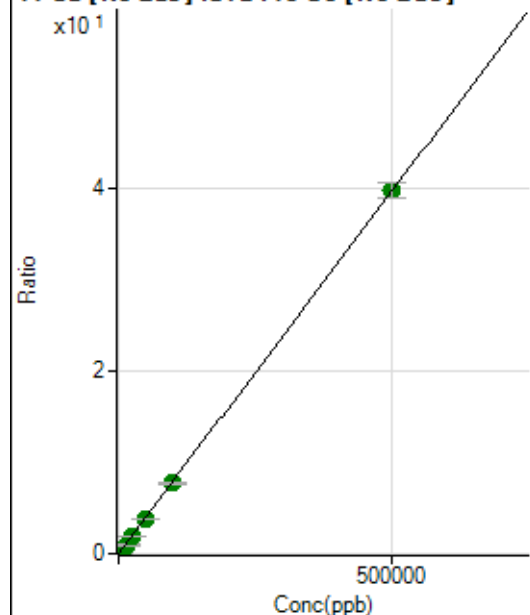
$$R = 1.0000$$

$$DL = 2.297$$

$$BEC = 17.81$$

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	38653.02	0.0044	P	2.7
2	☐	500.000	449.751	361082.96	0.0400	P	2.4
3	☐	5000.000	4703.383	3571347.52	0.3767	A	1.2
4	☐	12500.000	11880.079	8705080.46	0.9449	A	2.3
5	☐	25000.000	23467.774	17538668.07	1.8622	A	1.6
6	☐	50000.000	46680.164	34799135.66	3.6999	A	0.9
7	☐	100000.00	97021.351	71857294.12	7.6853	A	2.6
8	☐	500000.00	501022.83	371539560.5	39.6691	A	4.2

$$y = 7.9168E-005 * x + 0.0044$$

$$R = 1.0000$$

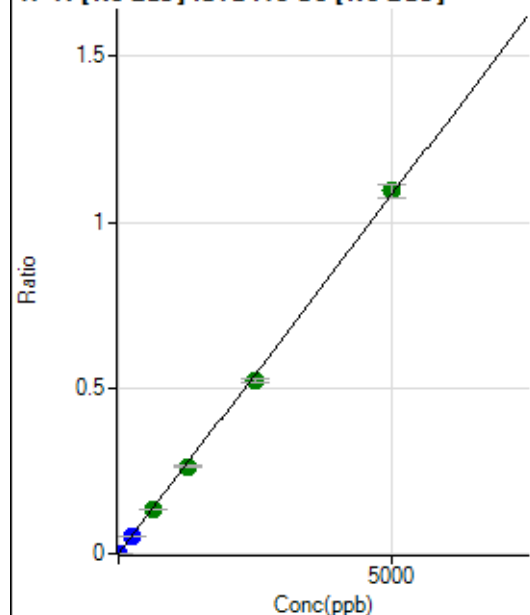
$$DL = 4.452$$

$$BEC = 54.95$$

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	197.23	0.0000	P	24.9
2	☐	5.000	5.123	10226.10	0.0011	P	2.1
3	☐	250.000	248.724	510642.70	0.0539	P	0.7
4	☐	625.000	621.097	1239046.48	0.1345	A	1.2
5	☐	1250.000	1211.792	2470900.79	0.2623	A	1.3
6	☐	2500.000	2408.667	4904969.38	0.5214	A	1.9
7	☐	5000.000	5055.770	10231718.63	1.0945	A	3.8
8	☐			2541.99	0.0003	P	9.6

$$y = 2.1648E-004 * x + 2.2085E-005$$

$$R = 0.9997$$

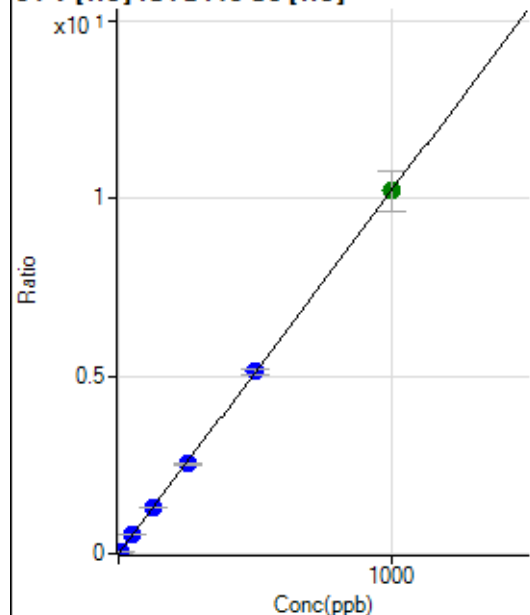
$$DL = 0.07624$$

$$BEC = 0.102$$

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	13.33	0.0001	P	25.8
2	☐	5.000	4.823	11565.89	0.0494	P	2.7
3	☐	50.000	52.194	125052.05	0.5336	P	2.5
4	☐	125.000	127.295	310346.56	1.3014	P	2.2
5	☐	250.000	246.439	626784.54	2.5194	P	1.9
6	☐	500.000	501.763	1249161.92	5.1296	P	3.1
7	☐	1000.000	999.613	2632689.27	10.2191	A	11.0
8	☐			651.14	0.0026	P	8.4

$$y = 0.0102 * x + 5.5889E-005$$

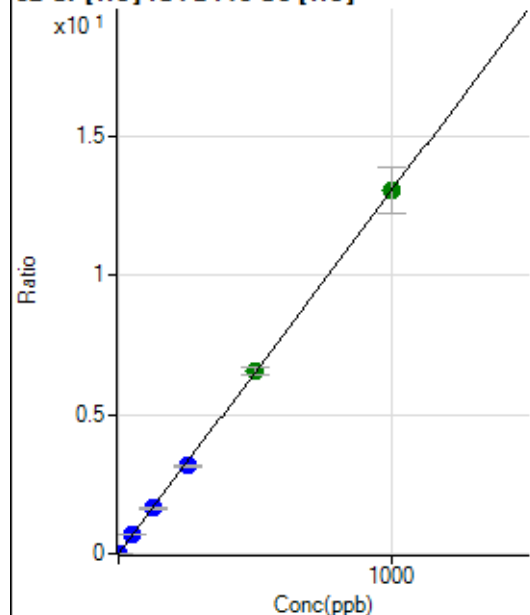
$$R = 1.0000$$

$$DL = 0.004238$$

$$BEC = 0.005467$$

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	818.92	0.0034	P	5.1
2	☐	2.000	1.907	6621.60	0.0283	P	3.1
3	☐	50.000	52.418	160783.93	0.6862	P	3.4
4	☐	125.000	124.961	388984.96	1.6311	P	2.1
5	☐	250.000	242.058	785272.50	3.1564	P	1.5
6	☐	500.000	504.704	1601620.55	6.5774	A	3.9
7	☐	1000.000	999.518	3350753.67	13.0226	A	12.7
8	☐			12170.82	0.0491	P	0.8

$$y = 0.0130 * x + 0.0034$$

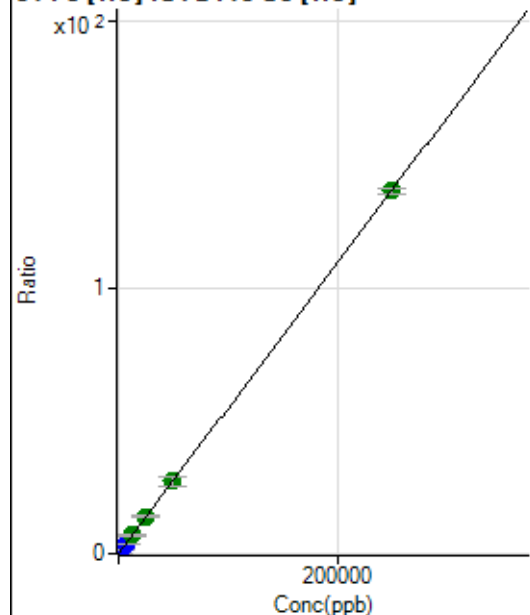
$$R = 0.9999$$

$$DL = 0.04038$$

$$BEC = 0.2632$$

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	1279.71	0.0054	P	3.3
2	☐	50.000	50.225	7678.12	0.0328	P	4.0
3	☐	2500.000	2688.409	345146.03	1.4729	P	2.7
4	☐	6250.000	6475.880	844333.17	3.5403	P	1.5
5	☐	12500.000	12617.287	1714668.24	6.8927	A	3.1
6	☐	25000.000	25697.429	3417743.74	14.0328	A	2.0
7	☐	50000.000	49805.388	7002046.74	27.1926	A	11.5
8	☐	250000.00	249955.78	33838310.94	136.4485	A	1.9

$$y = 5.4587E-004 * x + 0.0054$$

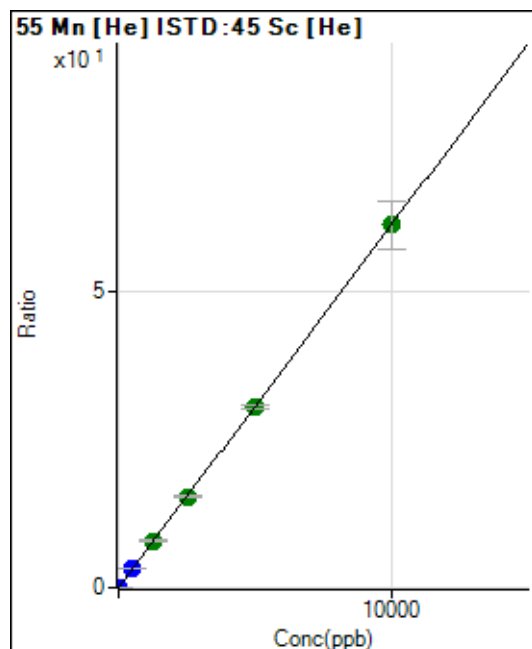
$$R = 1.0000$$

$$DL = 0.9658$$

$$BEC = 9.817$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3147.05	0.0132	P	4.9
2	☐	1.000	1.185	4784.18	0.0204	P	2.5
3	☐	500.000	523.857	753858.84	3.2165	P	1.5
4	☐	1250.000	1293.375	1889112.20	7.9221	A	4.4
5	☐	2500.000	2504.988	3814020.53	15.3310	A	2.1
6	☐	5000.000	4991.293	7437149.96	30.5346	A	2.1
7	☐	10000.000	9996.492	15723077.82	61.1411	A	13.5
8	☐			27280.59	0.1100	P	1.2

$$y = 0.0061 * x + 0.0132$$

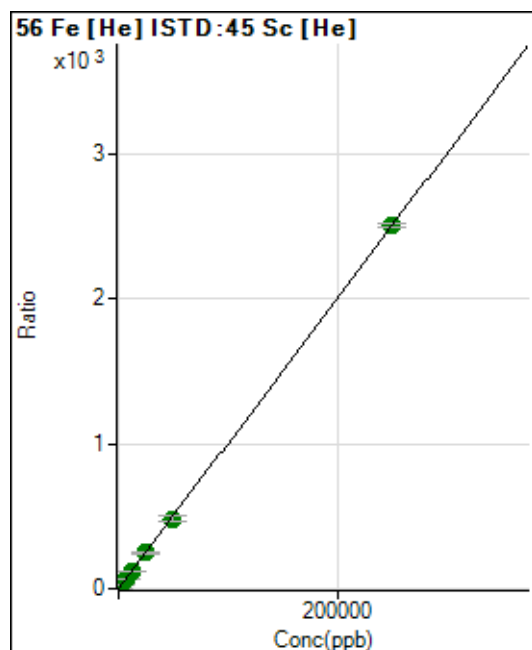
$$R = 1.0000$$

$$DL = 0.317$$

$$BEC = 2.154$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16309.55	0.0683	P	2.7
2	☐	50.000	49.080	131098.43	0.5595	P	1.6
3	☐	2500.000	2689.383	6325627.63	26.9871	A	1.2
4	☐	6250.000	6263.907	14968252.42	62.7654	A	2.9
5	☐	12500.000	12256.210	30535846.29	122.7440	A	2.5
6	☐	25000.000	24702.863	60238614.31	247.3260	A	2.1
7	☐	50000.000	48415.391	124885705.5	484.6711	A	10.7
8	☐	250000.00	250356.58	621428050.9	2,505.955	A	1.1

$$y = 0.0100 * x + 0.0683$$

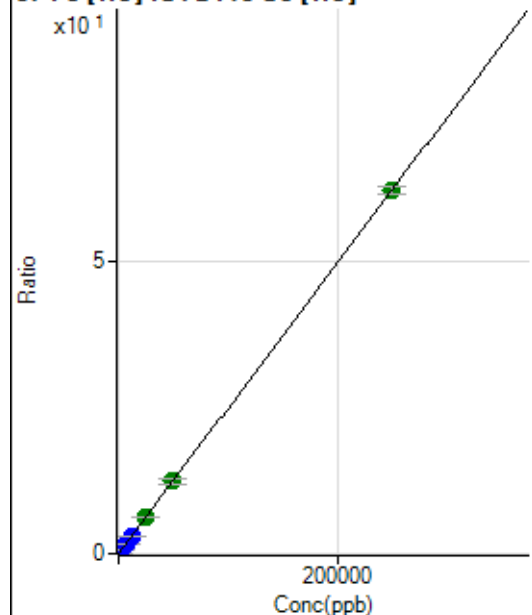
$$R = 1.0000$$

$$DL = 0.5449$$

$$BEC = 6.823$$

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	470.38	0.0020	P	6.7
2	☐	50.000	49.548	3350.45	0.0143	P	3.7
3	☐	2500.000	2640.142	154400.65	0.6590	P	3.9
4	☐	6250.000	6297.225	374186.19	1.5691	P	2.2
5	☐	12500.000	12138.242	751956.24	3.0227	P	3.0
6	☐	25000.000	25456.838	1543278.74	6.3371	A	2.9
7	☐	50000.000	49964.420	3207385.55	12.4360	A	9.2
8	☐	250000.00	249976.93	15425451.04	62.2104	A	2.1

$$y = 2.4886E-004 * x + 0.0020$$

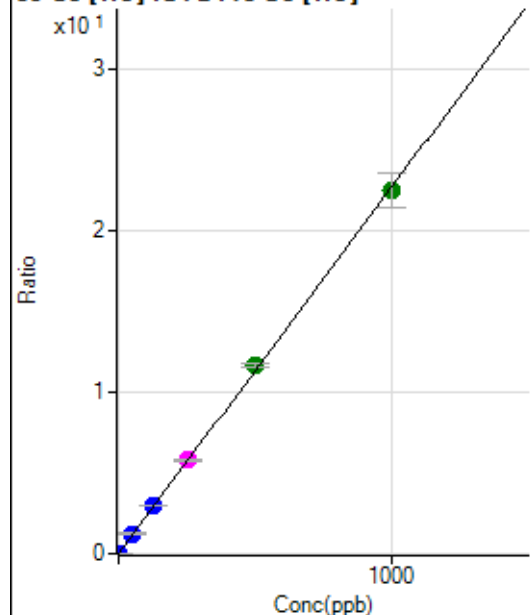
$$R = 1.0000$$

$$DL = 1.592$$

$$BEC = 7.912$$

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	216.67	0.0009	P	12.1
2	☐	1.000	1.028	5665.63	0.0242	P	5.6
3	☐	50.000	54.637	290277.70	1.2386	P	1.7
4	☐	125.000	130.754	706622.37	2.9628	P	1.2
5	☐	250.000	255.719	1441441.64	5.7936	M	1.3
6	☐	500.000	514.655	2839627.77	11.6592	A	2.1
7	☐	1000.000	990.292	5784108.73	22.4336	A	9.7
8	☐			14456.32	0.0583	P	1.1

$$y = 0.0227 * x + 9.0758E-004$$

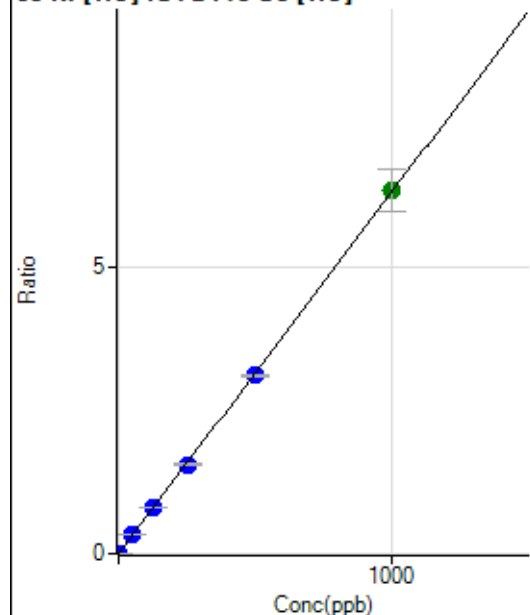
$$R = 0.9998$$

$$DL = 0.01455$$

$$BEC = 0.04007$$

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	155.56	0.0007	P	3.6
2	☐	1.000	1.020	1655.67	0.0071	P	4.3
3	☐	50.000	53.511	79021.55	0.3373	P	3.7
4	☐	125.000	127.455	191363.61	0.8024	P	1.8
5	☐	250.000	245.578	384495.99	1.5455	P	1.7
6	☐	500.000	493.220	755843.70	3.1033	P	1.7
7	☐	1000.000	1004.013	1626500.83	6.3165	A	11.5
8	☐			5997.98	0.0242	P	1.4

$$y = 0.0063 * x + 6.5116E-004$$

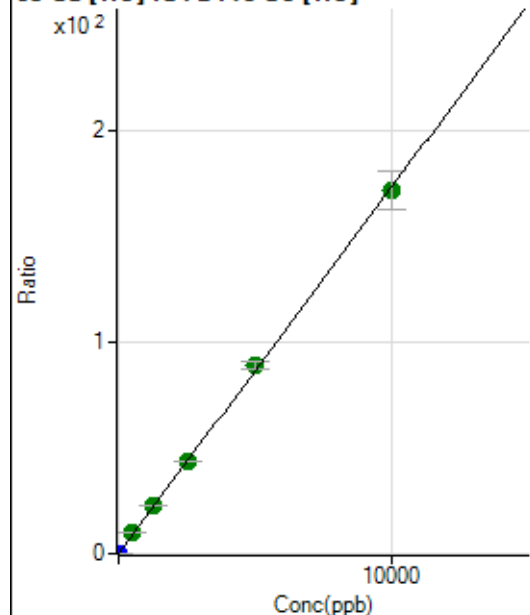
$$R = 0.9999$$

$$DL = 0.01125$$

$$BEC = 0.1035$$

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	1077.83	0.0045	P	6.1
2	☐	2.000	2.041	9345.37	0.0399	P	0.9
3	☐	500.000	570.641	2318046.93	9.8911	A	1.9
4	☐	1250.000	1324.757	5474660.48	22.9564	A	1.9
5	☐	2500.000	2519.995	10862923.59	43.6644	A	1.9
6	☐	5000.000	5157.896	21760337.73	89.3671	A	4.2
7	☐	10000.000	9903.176	44212492.12	171.5809	A	10.5
8	☐			14666.70	0.0591	P	2.9

$$y = 0.0173 * x + 0.0045$$

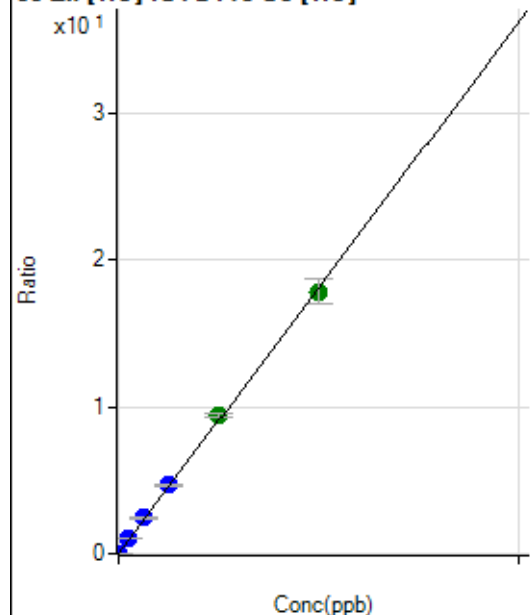
$$R = 0.9998$$

$$DL = 0.04769$$

$$BEC = 0.2606$$

Weight: <None>

Min Conc: 0

66 Zn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	794.47	0.0033	P	12.1
2	☐	2.000	2.337	1773.46	0.0076	P	2.7
3	☐	500.000	556.799	237498.25	1.0134	P	2.3
4	☐	1250.000	1348.795	584303.01	2.4502	P	2.4
5	☐	2500.000	2565.793	1158904.69	4.6580	P	1.0
6	☐	5000.000	5213.542	2304177.48	9.4613	A	2.7
7	☐	10000.000	9861.592	4611848.96	17.8934	A	10.1
8	☐			11791.67	0.0475	P	1.3

$$y = 0.0018 * x + 0.0033$$

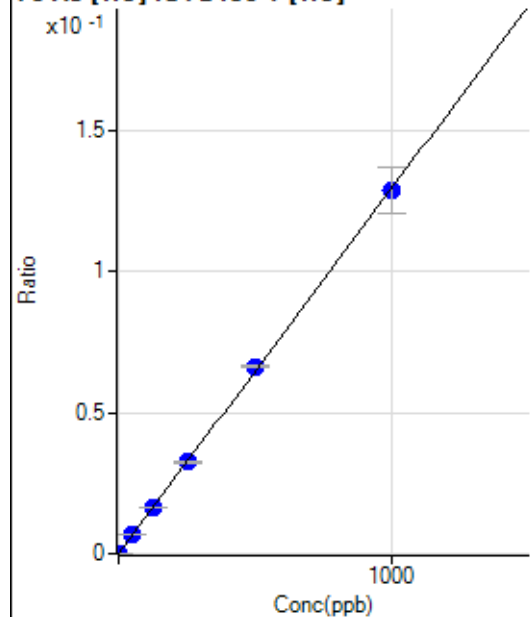
$$R = 0.9996$$

$$DL = 0.6685$$

$$BEC = 1.835$$

Weight: <None>

Min Conc: 0

75 As [He] ISTD:89 Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	7.33	0.0000	P	21.0
2	☐	1.000	1.063	276.70	0.0001	P	3.0
3	☐	50.000	52.439	13429.06	0.0068	P	1.8
4	☐	125.000	126.732	33067.79	0.0164	P	1.7
5	☐	250.000	250.390	66675.21	0.0324	P	0.6
6	☐	500.000	512.044	132303.35	0.0662	P	1.3
7	☐	1000.000	993.542	275779.77	0.1284	P	12.6
8	☐			112.01	0.0001	P	8.7

$$y = 1.2923E-004 * x + 3.6943E-006$$

$$R = 0.9999$$

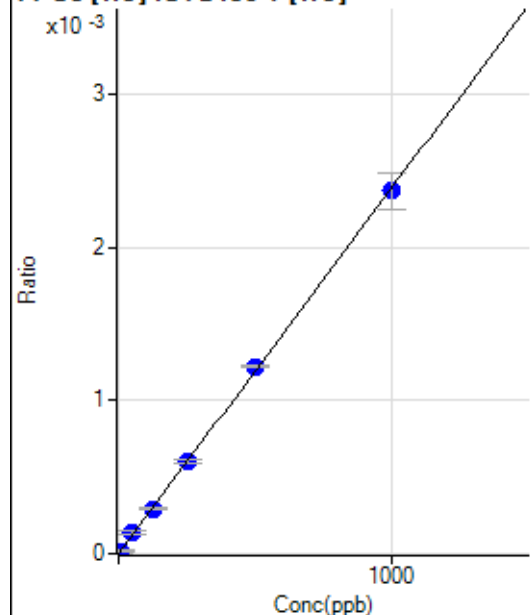
$$DL = 0.01797$$

$$BEC = 0.02859$$

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	☐	5.000	7.597	36.67	0.0000	P	24.2
3	☐	50.000	58.092	275.56	0.0001	P	12.4
4	☐	125.000	123.355	595.58	0.0003	P	7.6
5	☐	250.000	253.376	1247.85	0.0006	P	3.9
6	☐	500.000	512.162	2445.79	0.0012	P	1.7
7	☐	1000.000	992.863	5102.09	0.0024	P	10.2
8	☐			4.44	0.0000	P	114.1

$$y = 2.3876E-006 * x + 5.6339E-007$$

$$R = 0.9999$$

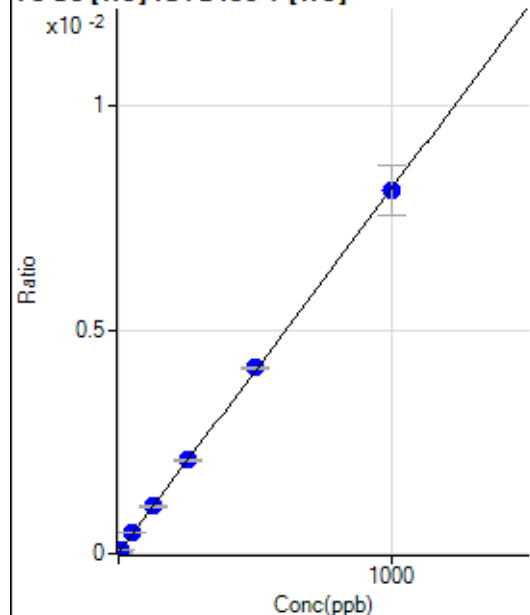
$$DL = 1.226$$

$$BEC = 0.236$$

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	43.00	0.0000	P	26.8
2	☐	5.000	5.662	132.68	0.0001	P	6.6
3	☐	50.000	54.596	922.13	0.0005	P	3.5
4	☐	125.000	127.286	2132.05	0.0011	P	2.1
5	☐	250.000	255.214	4318.44	0.0021	P	2.1
6	☐	500.000	507.638	8292.95	0.0041	P	1.1
7	☐	1000.000	994.359	17390.12	0.0081	P	13.8
8	☐			54.68	0.0000	P	8.6

$$y = 8.1285E-006 * x + 2.1630E-005$$

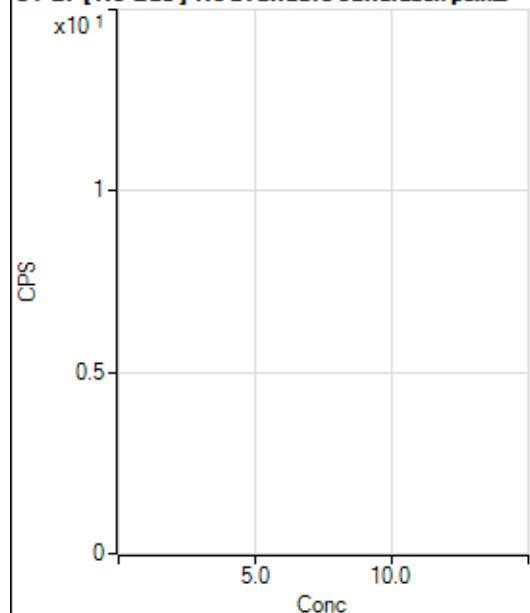
$$R = 0.9999$$

$$DL = 2.138$$

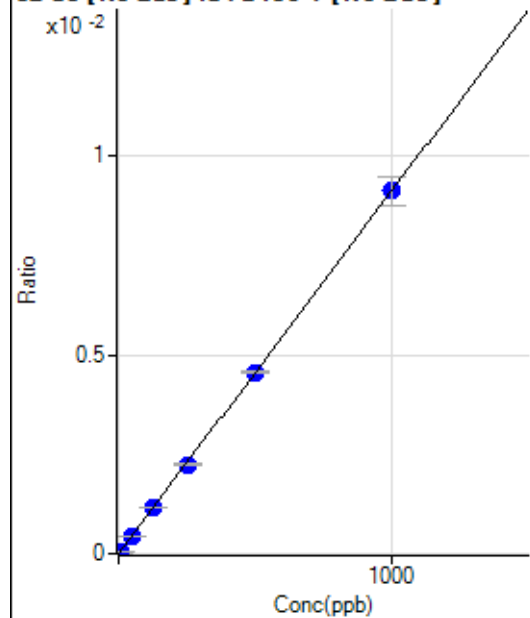
$$BEC = 2.661$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			17769.70		P	2.7
2	☐			17502.39		P	1.2
3	☐			17218.50		P	3.7
4	☐			17609.18		P	4.1
5	☐			18030.27		P	2.3
6	☐			18705.21		P	4.0
7	☐			18548.13		P	0.9
8	☐			19052.68		P	2.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	26.42	0.0000	P	248.4
2	☐	5.000	4.613	923.13	0.0000	P	13.6
3	☐	50.000	49.928	10241.39	0.0005	P	0.6
4	☐	125.000	128.115	25334.03	0.0012	P	1.6
5	☐	250.000	245.102	50214.27	0.0022	P	1.4
6	☐	500.000	499.898	99060.83	0.0046	P	1.2
7	☐	1000.000	1000.891	201638.79	0.0091	P	8.2
8	☐			1.74	0.0000	P	5081.

$$y = 9.1090\text{E-}006 * x + 1.2771\text{E-}006$$

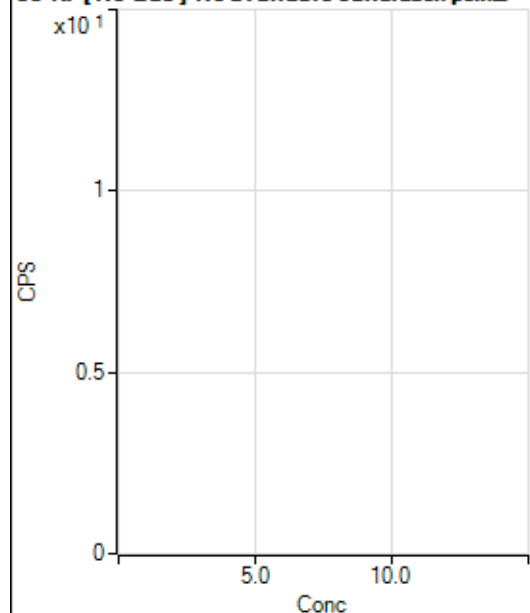
$$R = 1.0000$$

$$DL = 1.045$$

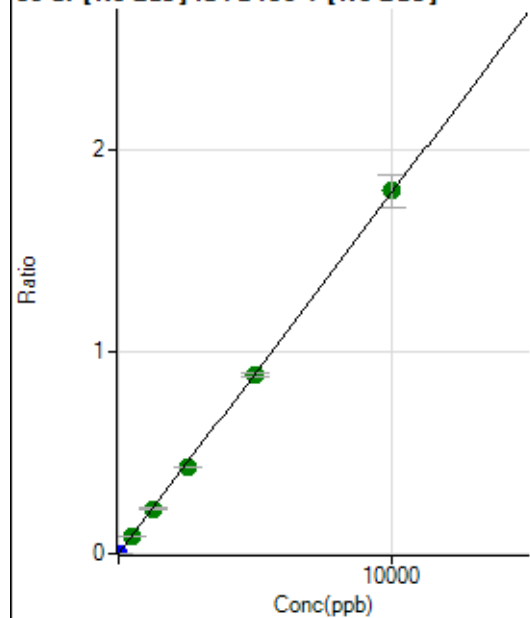
$$BEC = 0.1402$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3690.52		P	1.3
2	☐			3607.16		P	3.0
3	☐			3584.94		P	0.8
4	☐			3760.54		P	2.3
5	☐			3641.62		P	3.2
6	☐			3860.57		P	1.2
7	☐			3810.56		P	4.0
8	☐			3888.35		P	3.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6334.97	0.0003	P	4.0
2	☐	1.000	0.918	9825.92	0.0005	P	5.1
3	☐	500.000	488.693	1968488.26	0.0877	A	1.3
4	☐	1250.000	1240.814	4816657.44	0.2221	A	3.1
5	☐	2500.000	2387.217	9600095.70	0.4271	A	1.4
6	☐	5000.000	4955.282	19273145.05	0.8862	A	1.3
7	☐	10000.000	10052.268	39737917.56	1.7974	A	8.8
8	☐			34112.03	0.0015	P	3.3

$$y = 1.7877E-004 * x + 2.9734E-004$$

$$R = 0.9999$$

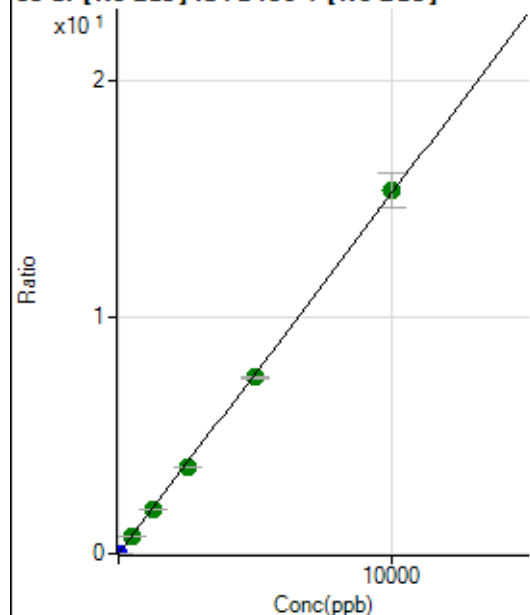
$$DL = 0.2018$$

$$BEC = 1.663$$

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	3281.04	0.0002	P	4.9
2	☐	1.000	0.975	34844.16	0.0016	P	4.0
3	☐	500.000	482.026	16470951.58	0.7335	A	1.9
4	☐	1250.000	1233.984	40717478.69	1.8774	A	1.1
5	☐	2500.000	2391.839	81798683.77	3.6388	A	1.2
6	☐	5000.000	4909.623	162449527.2	7.4691	A	1.1
7	☐	10000.000	10075.129	338705935.3	15.3272	A	9.7
8	☐			237107.60	0.0107	P	4.5

$$y = 0.0015 * x + 1.5408E-004$$

$$R = 0.9999$$

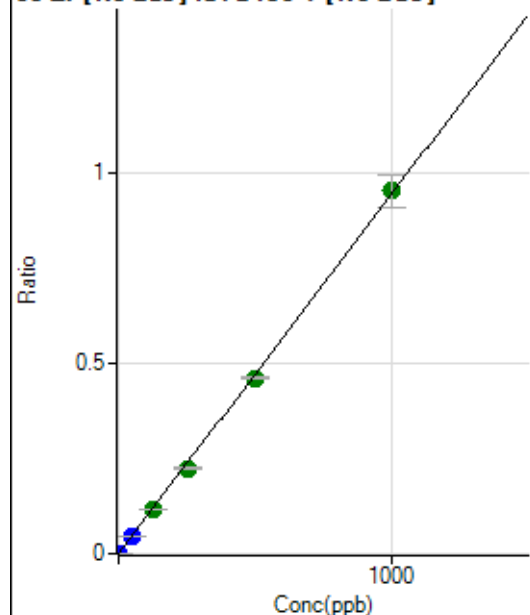
$$DL = 0.01487$$

$$BEC = 0.1013$$

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	1000.06	0.0000	P	18.3
2	☐	1.000	0.952	20176.13	0.0009	P	2.0
3	☐	50.000	48.418	1029911.41	0.0459	P	0.9
4	☐	125.000	124.322	2552428.05	0.1177	A	1.1
5	☐	250.000	236.435	5029543.56	0.2238	A	2.3
6	☐	500.000	488.392	10052519.84	0.4622	A	0.6
7	☐	1000.000	1009.359	21120497.35	0.9552	A	8.8
8	☐			11399.53	0.0005	P	5.7

$$y = 9.4628E-004 * x + 4.6947E-005$$

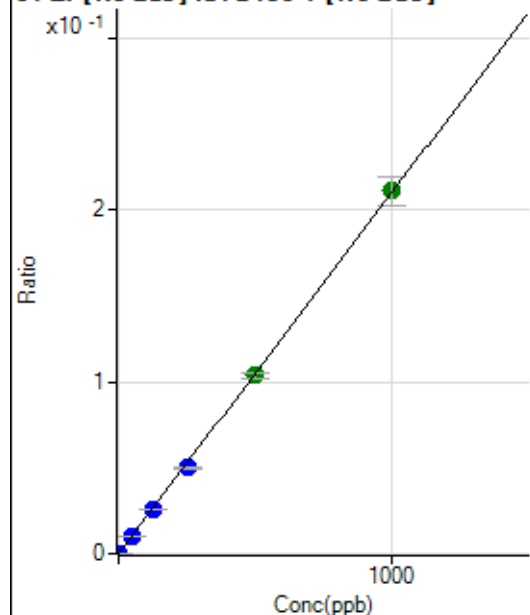
$$R = 0.9998$$

$$DL = 0.02717$$

$$BEC = 0.04961$$

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	230.56	0.0000	P	18.8
2	☐	1.000	0.951	4473.08	0.0002	P	3.8
3	☐	50.000	48.783	229812.37	0.0102	P	0.8
4	☐	125.000	124.560	566331.79	0.0261	P	0.5
5	☐	250.000	238.596	1124008.10	0.0500	P	2.5
6	☐	500.000	493.466	2249045.54	0.1034	A	3.4
7	☐	1000.000	1006.234	4663342.34	0.2109	A	8.3
8	☐			2480.85	0.0001	P	7.0

$$y = 2.0956\text{E-}004 * x + 1.0824\text{E-}005$$

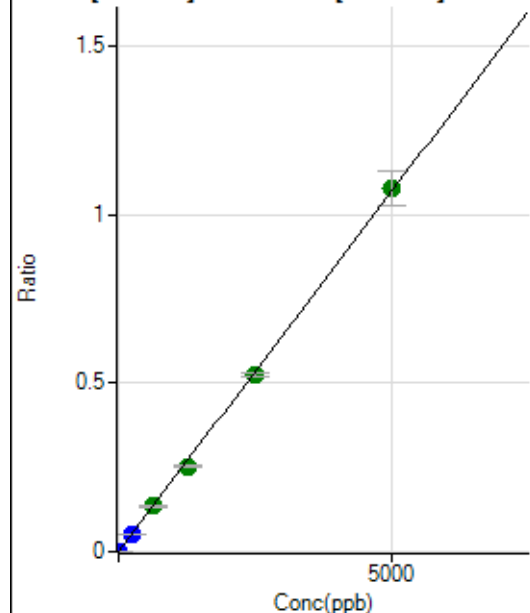
$$R = 0.9999$$

$$DL = 0.02915$$

$$BEC = 0.05165$$

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	411.13	0.0000	P	6.8
2	☐	5.000	4.836	22432.42	0.0011	P	0.4
3	☐	250.000	247.056	1186829.33	0.0529	P	1.2
4	☐	625.000	628.635	2915348.46	0.1344	A	2.7
5	☐	1250.000	1187.249	5708081.03	0.2539	A	1.5
6	☐	2500.000	2457.682	11429915.36	0.5256	A	1.9
7	☐	5000.000	5036.540	23804664.94	1.0770	A	9.5
8	☐			9684.37	0.0004	P	11.0

$$y = 2.1384\text{E-}004 * x + 1.9291\text{E-}005$$

$$R = 0.9999$$

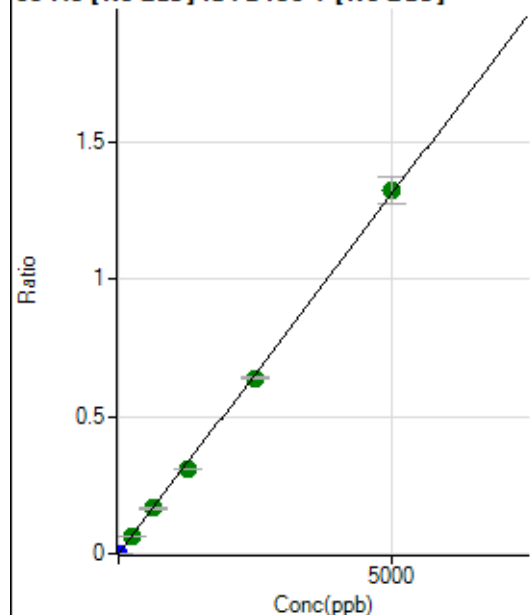
$$DL = 0.01842$$

$$BEC = 0.09021$$

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	116.67	0.0000	P	55.3
2	☐	5.000	4.937	27625.47	0.0013	P	0.8
3	☐	250.000	245.121	1440478.47	0.0641	A	1.5
4	☐	625.000	630.147	3575356.59	0.1649	A	3.0
5	☐	1250.000	1177.032	6922780.45	0.3080	A	1.7
6	☐	2500.000	2442.474	13899252.05	0.6391	A	1.5
7	☐	5000.000	5046.605	29219797.87	1.3205	A	7.4
8	☐			8917.15	0.0004	P	1.6

$$y = 2.6166\text{E-}004 * x + 5.4418\text{E-}006$$

$$R = 0.9998$$

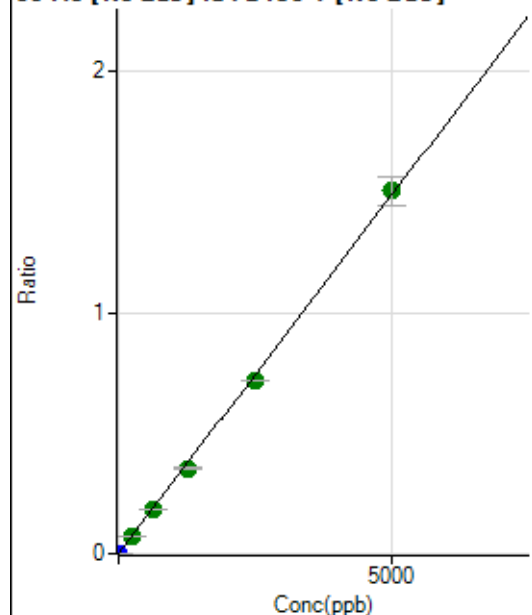
$$DL = 0.03452$$

$$BEC = 0.0208$$

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	363.90	0.0000	P	7.5
2	☐	5.000	4.874	31191.24	0.0015	P	3.3
3	☐	250.000	244.299	1630191.16	0.0726	A	0.6
4	☐	625.000	622.093	4008303.34	0.1848	A	1.2
5	☐	1250.000	1190.664	7952302.61	0.3537	A	1.2
6	☐	2500.000	2409.672	15570809.72	0.7159	A	0.4
7	☐	5000.000	5060.646	33248791.37	1.5035	A	8.3
8	☐			19906.61	0.0009	P	2.6

$$y = 2.9709\text{E-}004 * x + 1.7099\text{E-}005$$

$$R = 0.9997$$

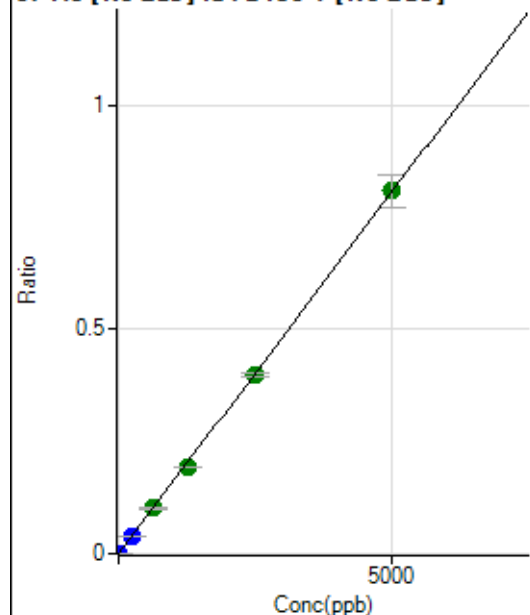
$$DL = 0.01289$$

$$BEC = 0.05756$$

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	44.44	0.0000	P	29.9
2	☐	5.000	5.028	17286.20	0.0008	P	3.7
3	☐	250.000	246.177	890595.07	0.0397	P	1.0
4	☐	625.000	631.002	2204331.43	0.1017	A	1.9
5	☐	1250.000	1196.015	4331826.96	0.1927	A	1.5
6	☐	2500.000	2480.111	8689231.18	0.3995	A	1.6
7	☐	5000.000	5022.881	17887386.34	0.8092	A	8.9
8	☐			5323.45	0.0002	P	2.2

$$y = 1.6110\text{E-}004 * x + 2.0923\text{E-}006$$

$$R = 0.9999$$

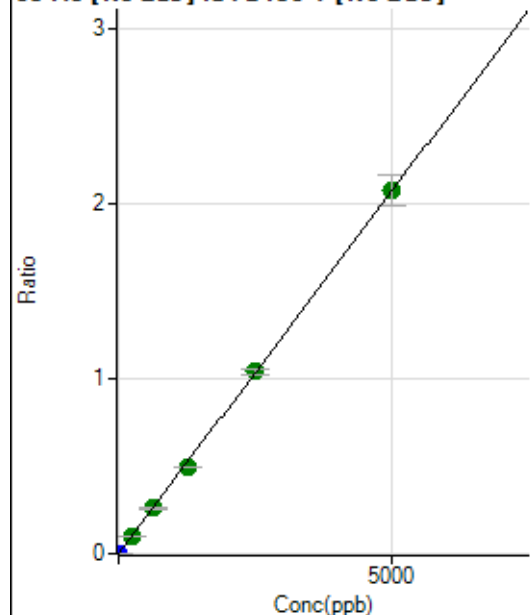
$$DL = 0.01164$$

$$BEC = 0.01299$$

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	119.45	0.0000	P	11.0
2	☐	5.000	4.990	44065.23	0.0021	P	1.3
3	☐	250.000	243.850	2264716.61	0.1009	A	2.6
4	☐	625.000	632.110	5668302.95	0.2614	A	3.7
5	☐	1250.000	1197.277	11131215.44	0.4952	A	1.3
6	☐	2500.000	2508.578	22562946.51	1.0375	A	2.2
7	☐	5000.000	5008.310	45802590.26	2.0714	A	8.4
8	☐			13865.91	0.0006	P	6.2

$$y = 4.1359\text{E-}004 * x + 5.6083\text{E-}006$$

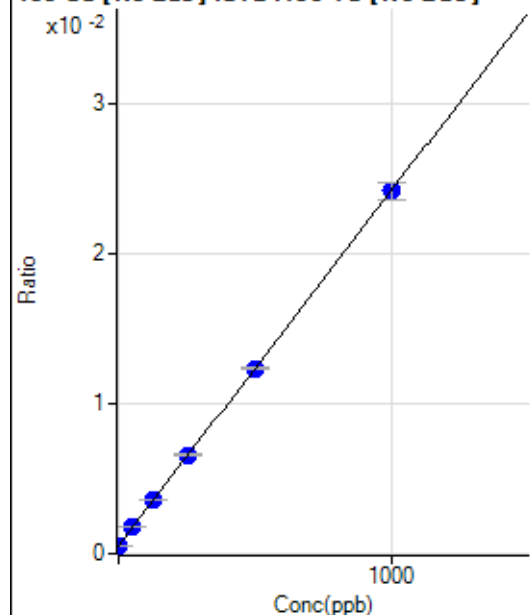
$$R = 0.9999$$

$$DL = 0.004476$$

$$BEC = 0.01356$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6173.77	0.0005	P	1.7
2	☐	1.000	1.320	6535.09	0.0006	P	2.7
3	☐	50.000	50.999	21038.73	0.0017	P	1.0
4	☐	125.000	128.666	42399.31	0.0036	P	1.9
5	☐	250.000	254.708	77988.05	0.0066	P	1.6
6	☐	500.000	499.453	146477.63	0.0124	P	1.5
7	☐	1000.000	998.588	288224.03	0.0242	P	4.5
8	☐			6554.53	0.0006	P	2.9

$$y = 2.3662\text{E-}005 * x + 5.3283\text{E-}004$$

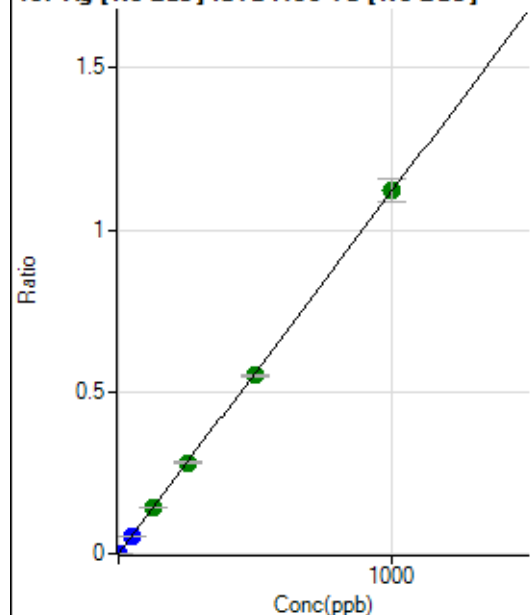
$$R = 1.0000$$

$$DL = 1.182$$

$$BEC = 22.52$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	130.56	0.0000	P	50.8
2	☐	1.000	0.939	12269.67	0.0011	P	5.1
3	☐	50.000	49.766	672353.10	0.0556	P	1.8
4	☐	125.000	126.910	1680261.13	0.1418	A	1.4
5	☐	250.000	251.468	3339393.72	0.2809	A	1.9
6	☐	500.000	493.611	6540041.47	0.5514	A	1.1
7	☐	1000.000	1002.601	13348706.11	1.1199	A	6.3
8	☐			3239.36	0.0003	P	1.4

$$y = 0.0011 * x + 1.1233\text{E-}005$$

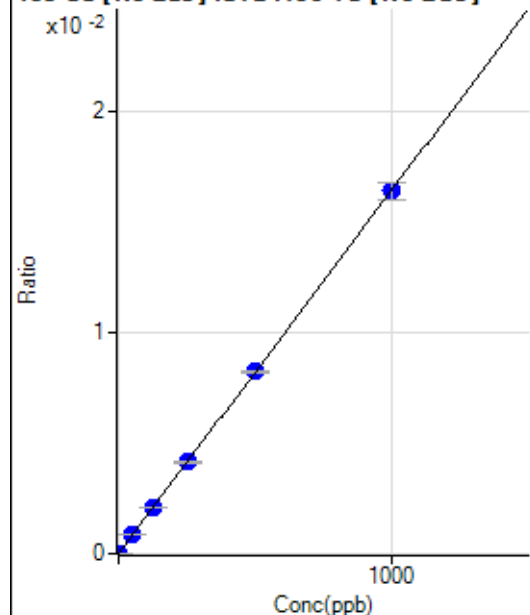
$$R = 1.0000$$

$$DL = 0.01532$$

$$BEC = 0.01006$$

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	73.61	0.0000	P	22.2
2	☐	1.000	0.878	240.28	0.0000	P	9.1
3	☐	50.000	50.915	10166.39	0.0008	P	1.5
4	☐	125.000	127.447	24829.45	0.0021	P	0.2
5	☐	250.000	251.683	49109.49	0.0041	P	1.1
6	☐	500.000	500.421	97334.01	0.0082	P	1.0
7	☐	1000.000	999.017	195319.23	0.0164	P	4.5
8	☐			238.89	0.0000	P	22.6

$$y = 1.6386\text{E-}005 * x + 6.3377\text{E-}006$$

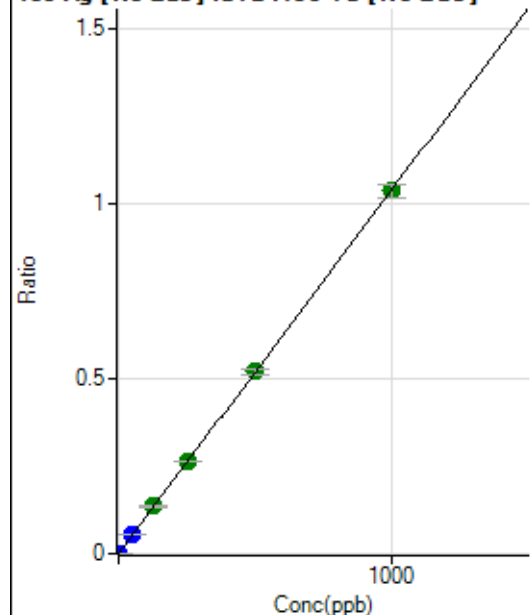
$$R = 1.0000$$

$$DL = 0.2578$$

$$BEC = 0.3868$$

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	102.78	0.0000	P	23.4
2	☐	1.000	1.008	12194.54	0.0011	P	7.2
3	☐	50.000	51.540	646888.03	0.0535	P	1.5
4	☐	125.000	129.946	1598379.42	0.1349	A	1.1
5	☐	250.000	253.781	3131253.80	0.2634	A	0.8
6	☐	500.000	500.534	6158281.13	0.5194	A	3.6
7	☐	1000.000	998.093	12356953.23	1.0357	A	3.4
8	☐			2922.62	0.0002	P	5.0

$$y = 0.0010 * x + 8.8475\text{E-}006$$

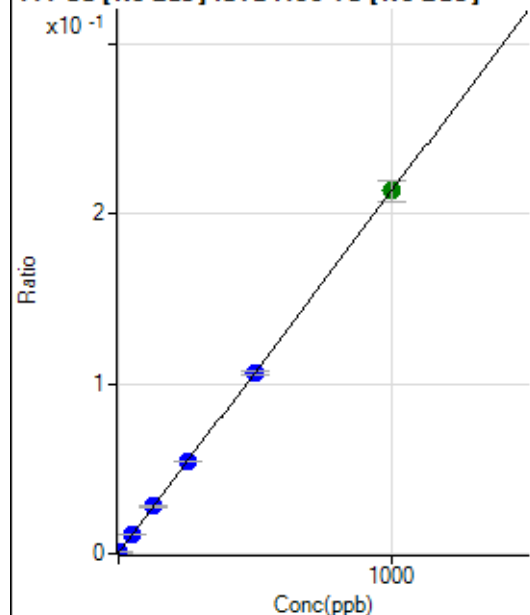
$$R = 1.0000$$

$$DL = 0.005984$$

$$BEC = 0.008526$$

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	4310.39	0.0004	P	2.3
2	☐	1.000	1.057	6916.35	0.0006	P	3.7
3	☐	50.000	50.900	135514.94	0.0112	P	0.8
4	☐	125.000	128.688	329012.18	0.0278	P	2.8
5	☐	250.000	252.443	643210.85	0.0541	P	1.2
6	☐	500.000	497.020	1258705.00	0.1061	P	2.6
7	☐	1000.000	1000.373	2543040.32	0.2133	A	5.6
8	☐			5308.48	0.0004	P	3.8

$$y = 2.1282\text{E-}004 * x + 3.7203\text{E-}004$$

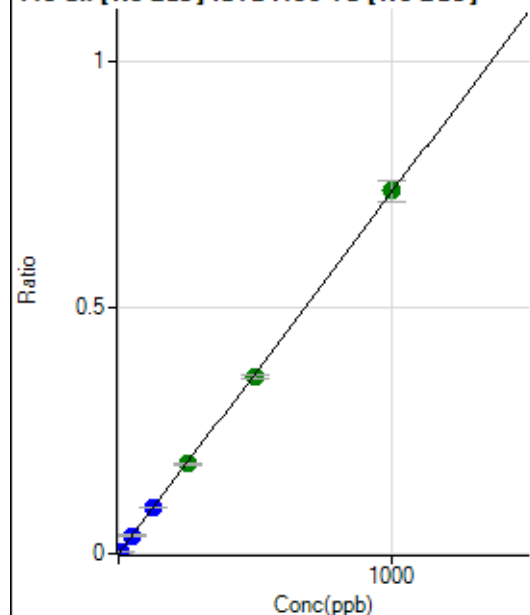
$$R = 1.0000$$

$$DL = 0.1203$$

$$BEC = 1.748$$

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	2661.43	0.0002	P	9.0
2	☐	5.000	4.905	44289.51	0.0038	P	5.2
3	☐	50.000	49.877	445237.87	0.0368	P	3.4
4	☐	125.000	126.107	1099371.98	0.0928	P	1.0
5	☐	250.000	248.672	2171920.84	0.1827	A	1.9
6	☐	500.000	490.390	4270291.55	0.3600	A	2.0
7	☐	1000.000	1005.005	8793440.56	0.7376	A	5.9
8	☐			4853.79	0.0004	P	5.4

$$y = 7.3369\text{E-}004 * x + 2.2983\text{E-}004$$

$$R = 0.9999$$

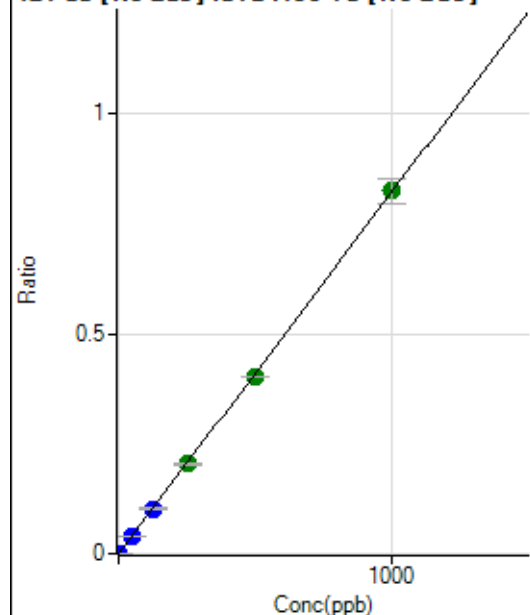
$$DL = 0.08503$$

$$BEC = 0.3133$$

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	100.00	0.0000	P	13.2
2	☐	2.000	1.904	18195.84	0.0016	P	4.4
3	☐	50.000	49.165	488523.34	0.0404	P	0.3
4	☐	125.000	124.333	1210429.05	0.1021	P	2.1
5	☐	250.000	248.861	2430234.78	0.2044	A	1.8
6	☐	500.000	491.201	4785600.15	0.4034	A	0.6
7	☐	1000.000	1004.810	9836346.75	0.8253	A	6.7
8	☐			6693.51	0.0006	P	10.2

$$y = 8.2133\text{E-}004 * x + 8.6207\text{E-}006$$

R = 0.9999

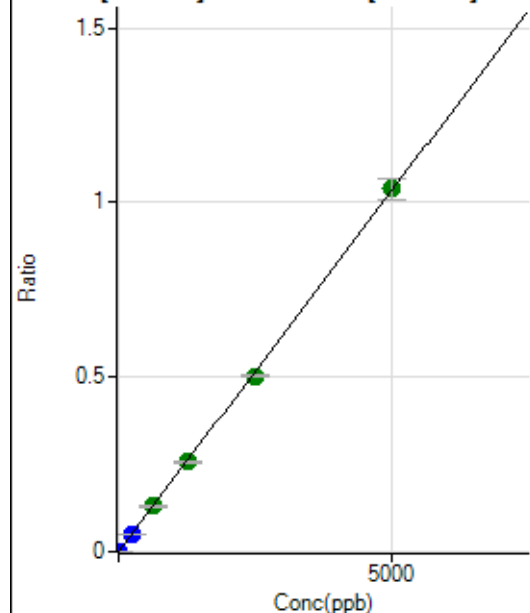
DL = 0.004152

BEC = 0.0105

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	66.67	0.0000	P	33.0
2	☐	10.000	9.667	23175.92	0.0020	P	3.3
3	☐	250.000	244.977	612018.63	0.0506	P	1.3
4	☐	625.000	633.095	1549863.02	0.1308	A	3.5
5	☐	1250.000	1243.095	3052860.33	0.2568	A	1.2
6	☐	2500.000	2439.195	5975283.55	0.5038	A	2.1
7	☐	5000.000	5031.369	12389747.67	1.0392	A	5.8
8	☐			4717.66	0.0004	P	6.8

$$y = 2.0655\text{E-}004 * x + 5.7540\text{E-}006$$

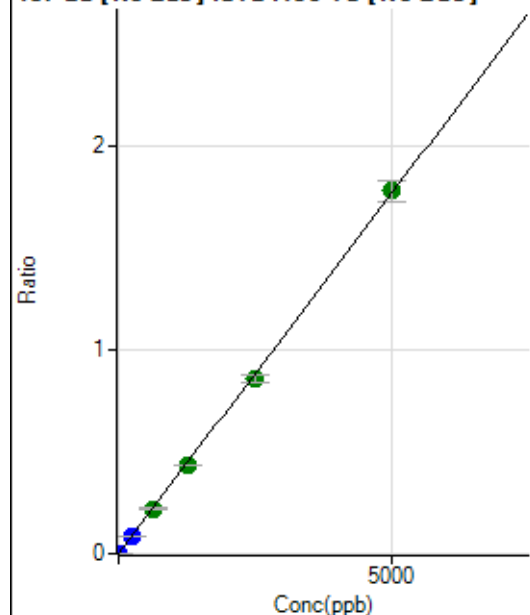
R = 0.9999

DL = 0.02756

BEC = 0.02786

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	105.56	0.0000	P	42.1
2	☐	10.000	9.517	39084.89	0.0034	P	3.6
3	☐	250.000	248.753	1064786.05	0.0880	P	1.3
4	☐	625.000	622.801	2612414.06	0.2204	A	2.8
5	☐	1250.000	1232.319	5185835.01	0.4361	A	1.2
6	☐	2500.000	2434.397	10216140.76	0.8616	A	3.8
7	☐	5000.000	5037.560	21254454.47	1.7829	A	6.0
8	☐			8161.10	0.0007	P	9.4

$$y = 3.5391E-004 * x + 9.0764E-006$$

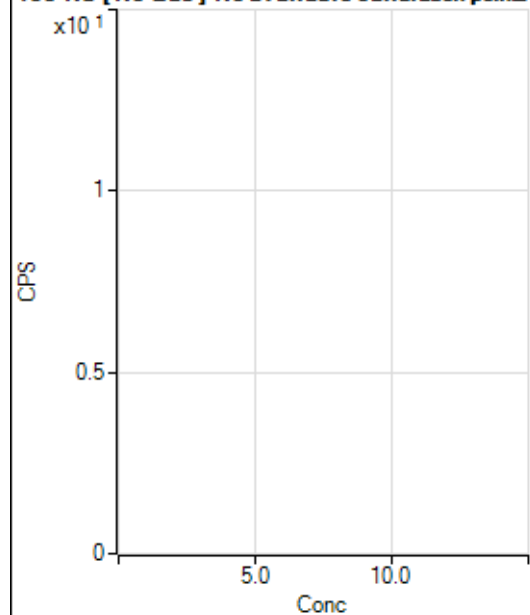
$$R = 0.9999$$

$$DL = 0.0324$$

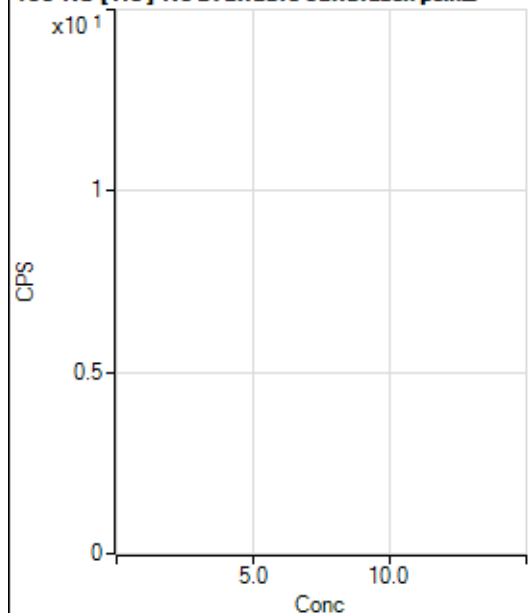
$$BEC = 0.02565$$

Weight: <None>

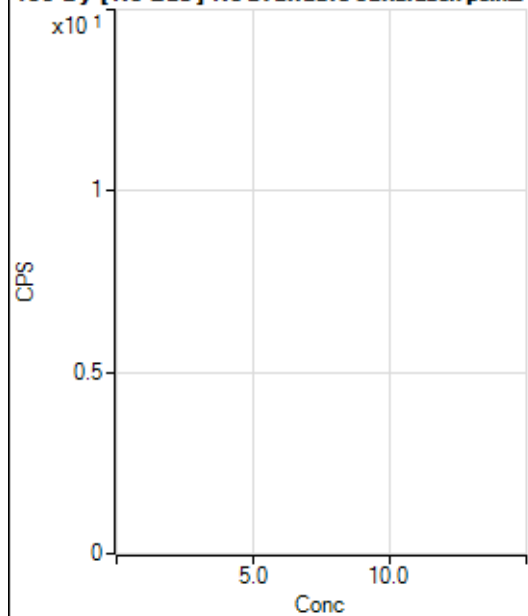
Min Conc: 0

150 Nd [No Gas] No available calibration points

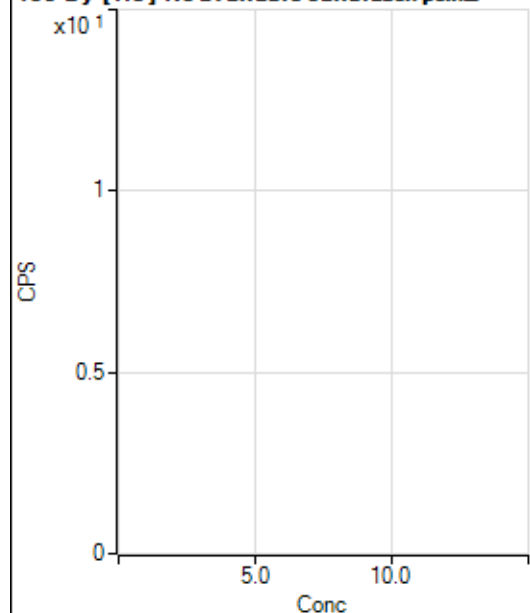
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	173.2
2	☐			6.67		P	100.0
3	☐			40.00		P	44.1
4	☐			71.11		P	51.6
5	☐			204.45		P	5.0
6	☐			333.35		P	23.6
7	☐			651.14		P	12.1
8	☐			122.23		P	32.0

150 Nd [He] No available calibration points

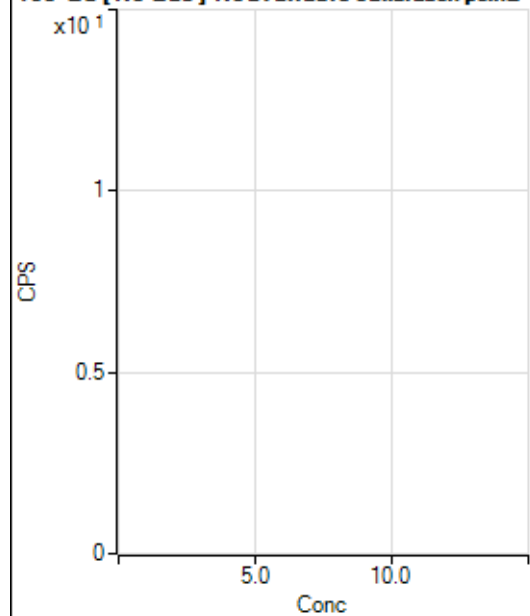
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			2.22		P	86.6
3	☐			2.22		P	173.2
4	☐			4.44		P	43.4
5	☐			6.67		P	132.3
6	☐			22.22		P	48.2
7	☐			42.22		P	16.4
8	☐			33.33		P	10.0

156 Dy [No Gas] No available calibration points

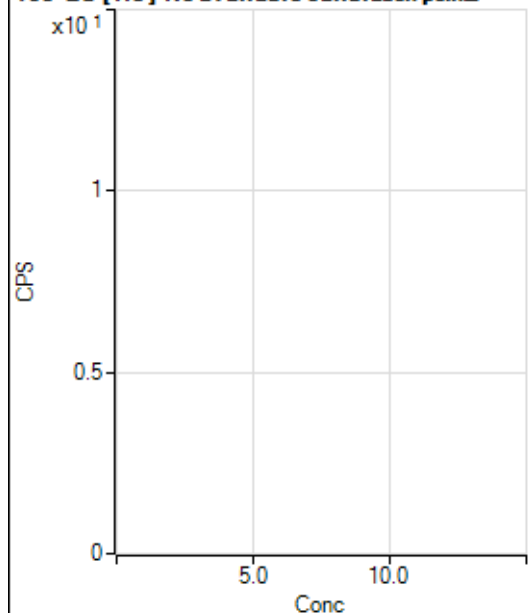
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			36.11		P	58.1
2	☐			36.11		P	26.7
3	☐			50.00		P	44.1
4	☐			91.67		P	15.7
5	☐			141.67		P	38.6
6	☐			280.57		P	14.7
7	☐			533.36		P	13.6
8	☐			1775.16		P	8.1

156 Dy [He] No available calibration points

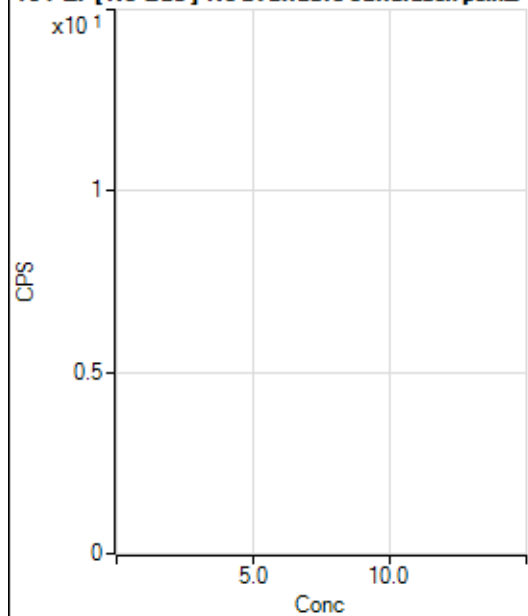
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3.33		P	173.2
2	☐			4.44		P	43.4
3	☐			20.00		P	50.0
4	☐			30.00		P	40.1
5	☐			50.00		P	6.7
6	☐			112.22		P	4.5
7	☐			221.12		P	12.2
8	☐			765.59		P	7.4

160 Gd [No Gas] Noavailable calibration poin_

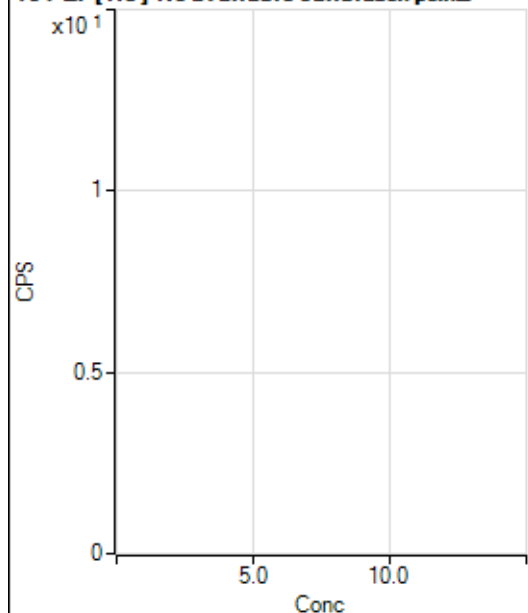
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			66.67		P	12.5
2	☐			66.67		P	57.3
3	☐			66.67		P	57.3
4	☐			100.00		P	30.0
5	☐			133.33		P	21.7
6	☐			225.01		P	28.9
7	☐			377.79		P	20.5
8	☐			1661.26		P	4.5

160 Gd [He] No available calibration points

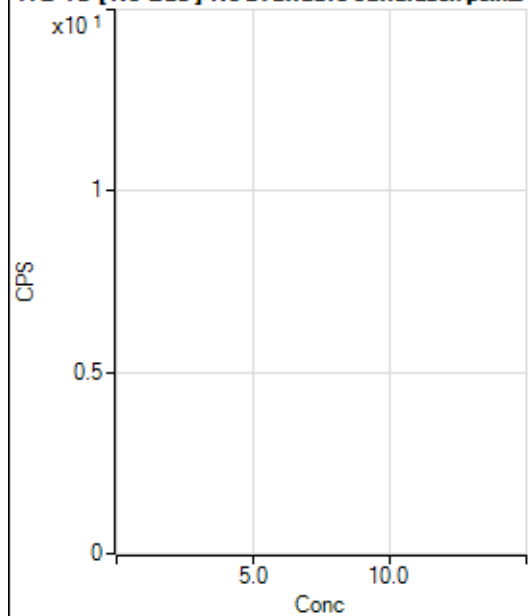
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			67.78		P	17.3
2	☐			71.11		P	17.7
3	☐			67.78		P	7.5
4	☐			82.22		P	19.2
5	☐			111.11		P	26.9
6	☐			183.34		P	9.6
7	☐			263.34		P	5.1
8	☐			862.26		P	11.2

164 Er [No Gas] No available calibration points

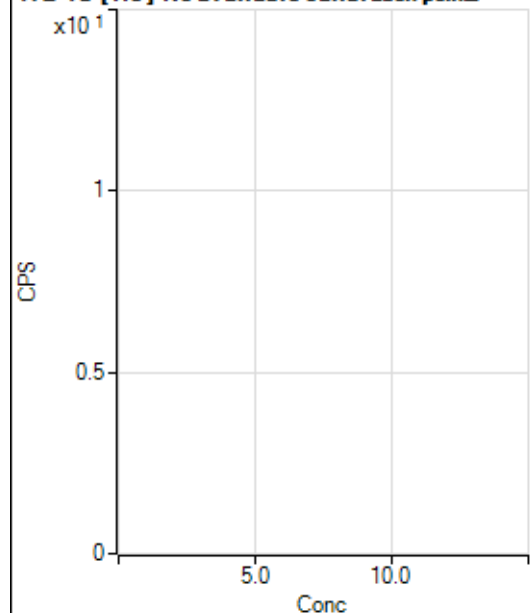
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			61.11		P	28.4
2	☐			63.89		P	27.2
3	☐			61.11		P	20.8
4	☐			116.67		P	14.3
5	☐			102.78		P	28.5
6	☐			97.23		P	13.1
7	☐			177.78		P	17.7
8	☐			269.46		P	20.6

164 Er [He] No available calibration points

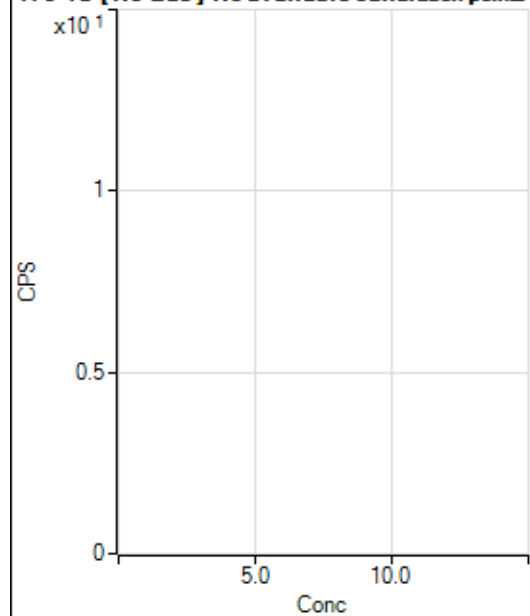
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			28.89		P	29.0
2	☐			31.11		P	32.7
3	☐			31.11		P	43.3
4	☐			30.00		P	22.2
5	☐			42.22		P	31.9
6	☐			41.11		P	12.4
7	☐			67.78		P	23.2
8	☐			140.00		P	6.3

172 Yb [No Gas] No available calibration points

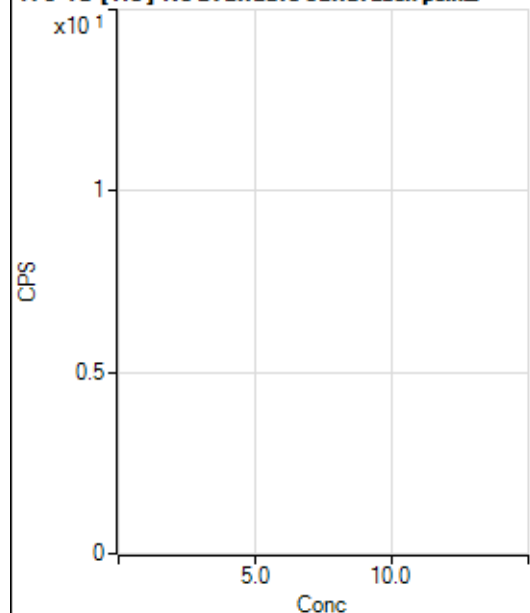
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			27.78		P	45.8
2	☐			55.56		P	17.3
3	☐			44.44		P	75.8
4	☐			44.45		P	28.7
5	☐			61.11		P	56.8
6	☐			47.22		P	44.4
7	☐			63.89		P	15.1
8	☐			155.56		P	13.5

172 Yb [He] No available calibration points

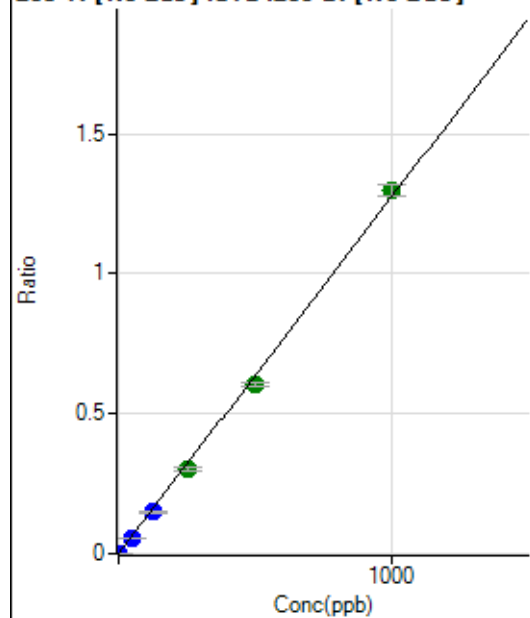
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			22.22		P	25.0
2	☐			18.52		P	45.8
3	☐			27.78		P	72.1
4	☐			12.97		P	49.5
5	☐			22.22		P	43.3
6	☐			31.48		P	36.7
7	☐			35.19		P	48.2
8	☐			70.37		P	46.3

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1380.67		P	6.8
2	☐			1441.78		P	5.0
3	☐			3089.34		P	4.6
4	☐			5490.19		P	3.0
5	☐			9537.06		P	1.6
6	☐			17523.23		P	3.5
7	☐			34451.23		P	2.0
8	☐			1572.36		P	7.1

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5725.42		P	1.6
2	☐			5564.24		P	5.9
3	☐			6366.47		P	2.7
4	☐			7394.80		P	2.4
5	☐			9622.18		P	2.3
6	☐			13110.45		P	4.0
7	☐			21877.72		P	2.8
8	☐			6029.26		P	4.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	344.46	0.0001	P	25.4
2	☐	1.000	0.907	7619.08	0.0012	P	2.4
3	☐	50.000	45.617	381257.48	0.0582	P	0.7
4	☐	125.000	116.081	950921.79	0.1480	P	4.3
5	☐	250.000	236.194	1934315.65	0.3011	A	3.5
6	☐	500.000	474.893	3872901.82	0.6052	A	1.4
7	☐	1000.000	1017.339	7742043.49	1.2965	A	3.3
8	☐			1875.20	0.0003	P	15.4

$$y = 0.0013 * x + 5.4214E-005$$

$$R = 0.9994$$

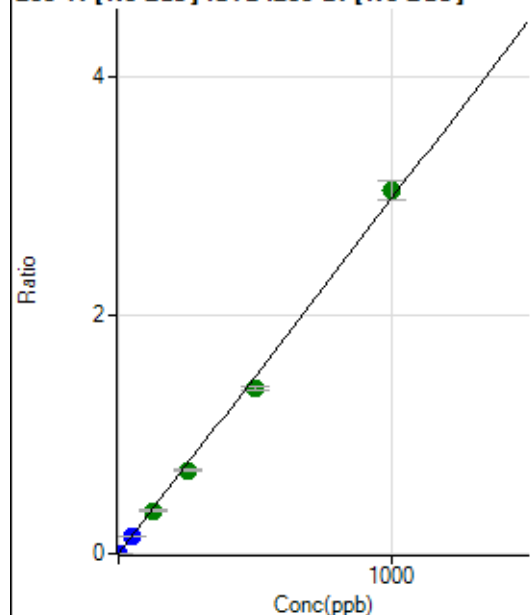
$$DL = 0.03244$$

$$BEC = 0.04254$$

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	844.50	0.0001	P	4.9
2	☐	1.000	0.909	17857.24	0.0028	P	6.0
3	☐	50.000	46.950	916664.12	0.1399	P	2.3
4	☐	125.000	120.441	2305310.56	0.3587	A	3.6
5	☐	250.000	235.517	4506169.11	0.7013	A	2.4
6	☐	500.000	464.670	8852583.01	1.3836	A	2.1
7	☐	1000.000	1022.008	18160220.37	3.0429	A	5.2
8	☐			4545.40	0.0008	P	5.4

$$y = 0.0030 * x + 1.3263E-004$$

$$R = 0.9990$$

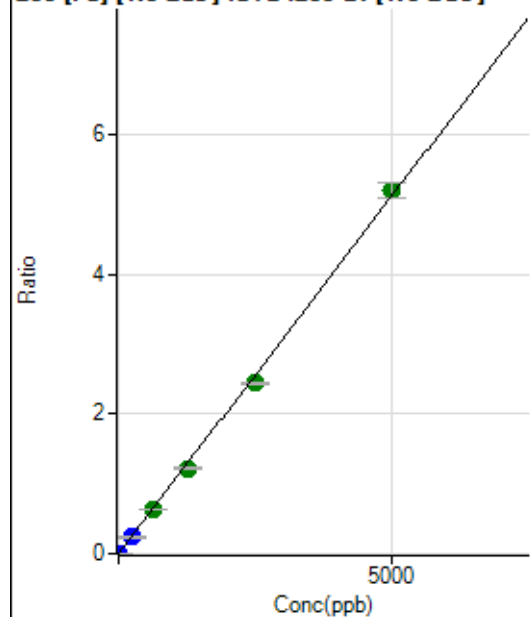
$$DL = 0.006541$$

$$BEC = 0.04455$$

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	1116.74	0.0002	P	6.9
2	☐	1.000	0.878	6775.96	0.0011	P	2.6
3	☐	250.000	229.527	1542662.84	0.2355	P	1.8
4	☐	625.000	616.622	4063747.49	0.6323	A	3.0
5	☐	1250.000	1185.898	7811532.12	1.2158	A	2.4
6	☐	2500.000	2382.019	15630641.90	2.4419	A	1.6
7	☐	5000.000	5077.087	31070663.66	5.2046	A	4.2
8	☐			12904.87	0.0023	P	2.2

$$y = 0.0010 * x + 1.7553E-004$$

$$R = 0.9995$$

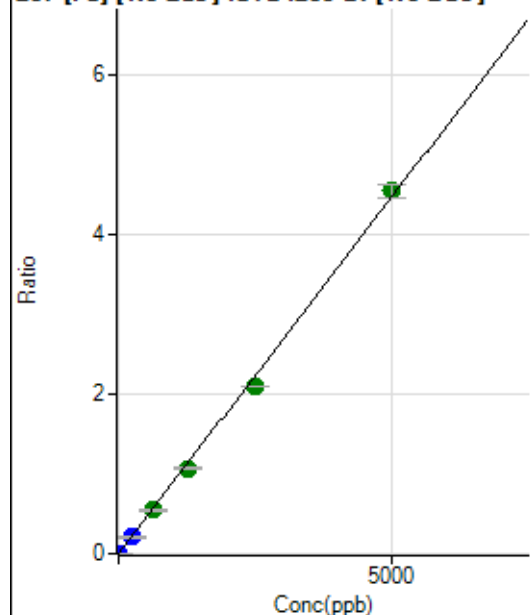
$$DL = 0.03563$$

$$BEC = 0.1712$$

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	927.83	0.0001	P	4.2
2	☐	1.000	0.915	6060.78	0.0010	P	5.2
3	☐	250.000	230.215	1348060.43	0.2057	P	1.4
4	☐	625.000	613.335	3522183.24	0.5479	A	2.1
5	☐	1250.000	1198.551	6879210.98	1.0705	A	1.3
6	☐	2500.000	2348.710	13426355.39	2.0977	A	0.3
7	☐	5000.000	5090.955	27142238.80	4.5467	A	4.1
8	☐			11479.52	0.0021	P	8.4

$$y = 8.9307E-004 * x + 1.4574E-004$$

R = 0.9993

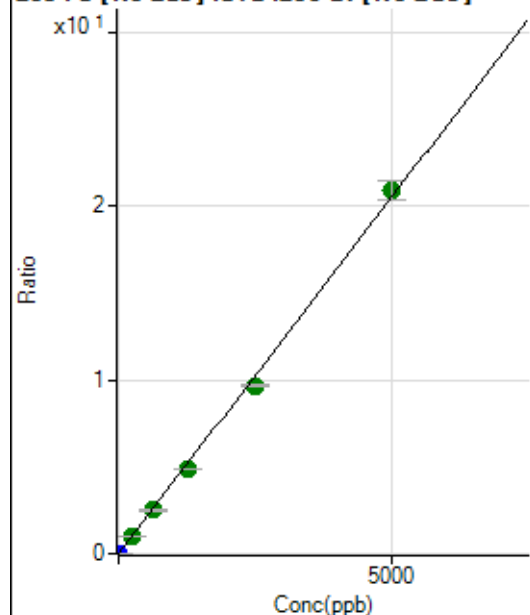
DL = 0.0207

BEC = 0.1632

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	4294.81	0.0007	P	1.9
2	☐	1.000	0.878	26946.49	0.0043	P	3.2
3	☐	250.000	234.907	6321786.43	0.9649	A	2.1
4	☐	625.000	607.562	16038687.80	2.4946	A	1.4
5	☐	1250.000	1184.461	31249316.03	4.8626	A	0.9
6	☐	2500.000	2355.699	61885899.88	9.6702	A	0.7
7	☐	5000.000	5091.470	124729609.0	20.8998	A	5.4
8	☐			51550.38	0.0092	P	4.6

$$y = 0.0041 * x + 6.7475E-004$$

R = 0.9993

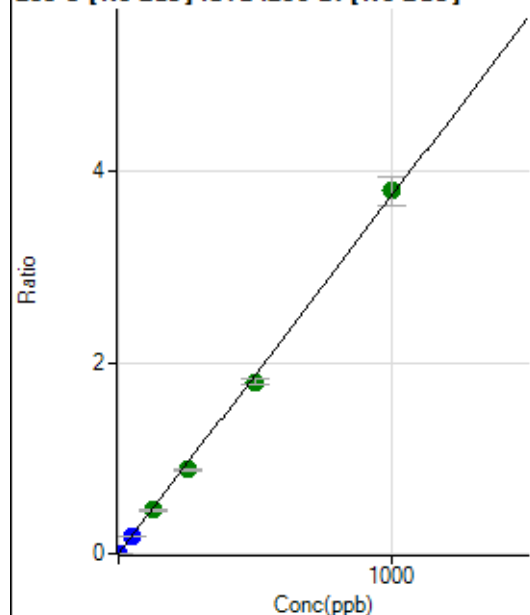
DL = 0.009346

BEC = 0.1644

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	58.34	0.0000	P	28.9
2	☐	1.000	0.878	20750.95	0.0033	P	2.3
3	☐	50.000	46.079	1130027.24	0.1725	P	1.1
4	☐	125.000	121.111	2914226.76	0.4533	A	1.7
5	☐	250.000	235.326	5659260.41	0.8808	A	1.7
6	☐	500.000	480.240	11497372.83	1.7974	A	3.6
7	☐	1000.000	1014.231	22642136.27	3.7960	A	7.9
8	☐			3086.65	0.0006	P	9.9

$$y = 0.0037 * x + 9.1738E-006$$

$$R = 0.9996$$

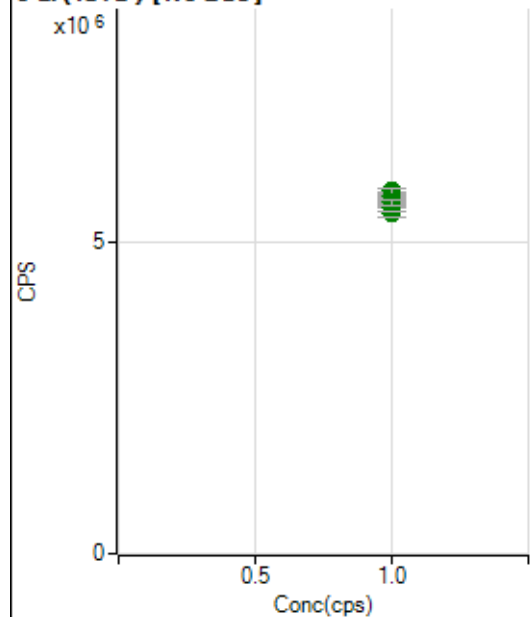
$$DL = 0.002123$$

$$BEC = 0.002451$$

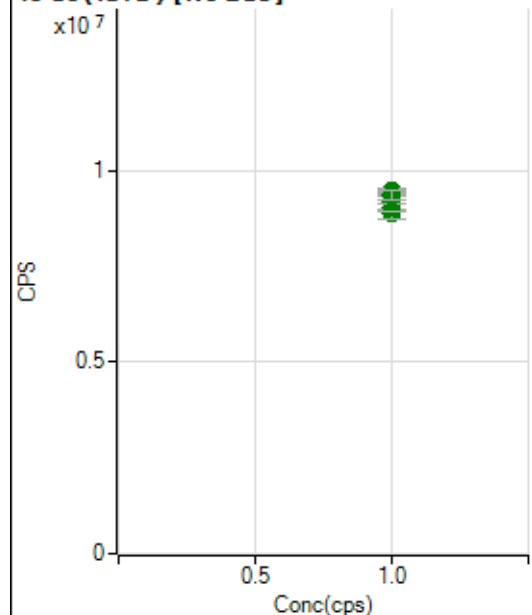
Weight: <None>

Min Conc: 0

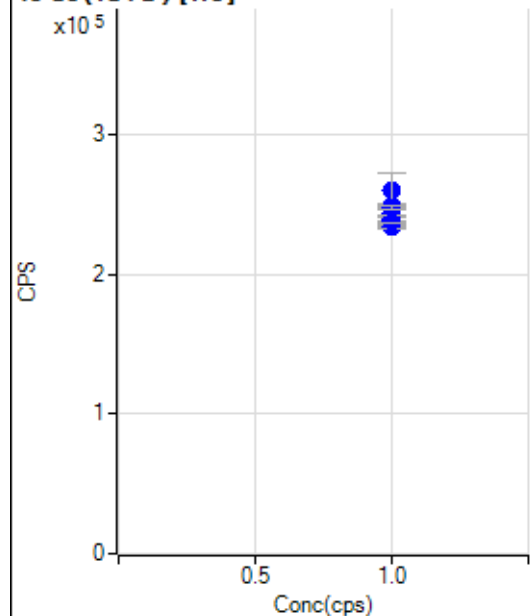
6 Li (ISTD) [No Gas]



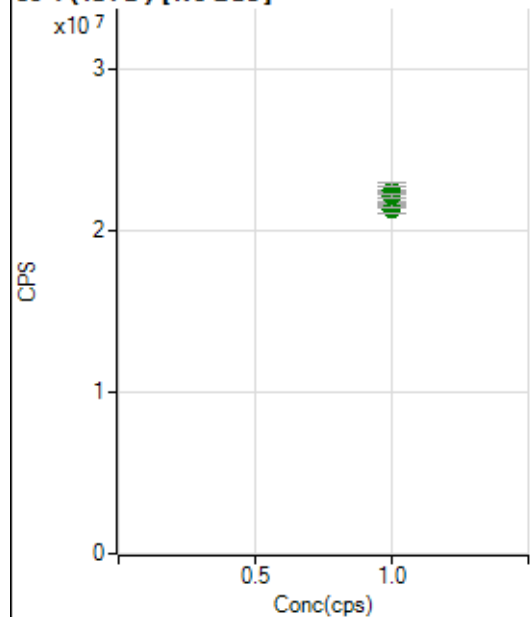
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5562648.59		A	1.8
2	☐	1.000		5478353.29		A	2.7
3	☐	1.000		5758401.09		A	0.5
4	☐	1.000		5564651.87		A	2.0
5	☐	1.000		5832895.84		A	1.1
6	☐	1.000		5686646.73		A	1.0
7	☐	1.000		5744388.89		A	4.2
8	☐	1.000		5650971.19		A	1.6

45 Sc (ISTD) [No Gas]

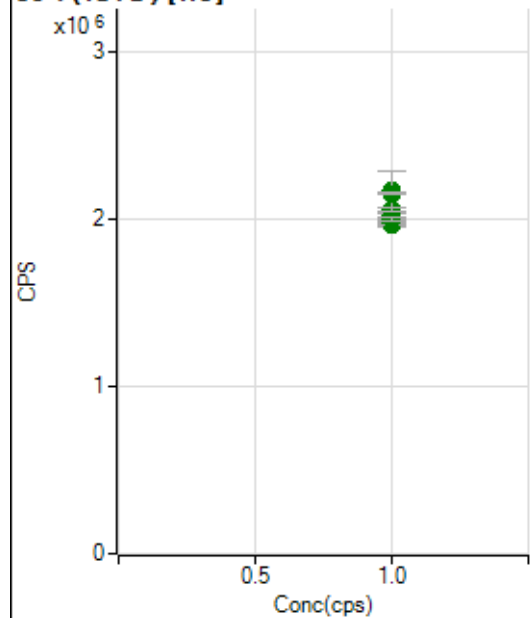
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8889141.40		A	2.8
2	☐	1.000		9040313.89		A	2.4
3	☐	1.000		9480138.40		A	1.6
4	☐	1.000		9214447.43		A	1.0
5	☐	1.000		9418675.69		A	0.8
6	☐	1.000		9405820.00		A	0.7
7	☐	1.000		9353241.25		A	2.2
8	☐	1.000		9373586.95		A	2.9

45 Sc (ISTD) [He]

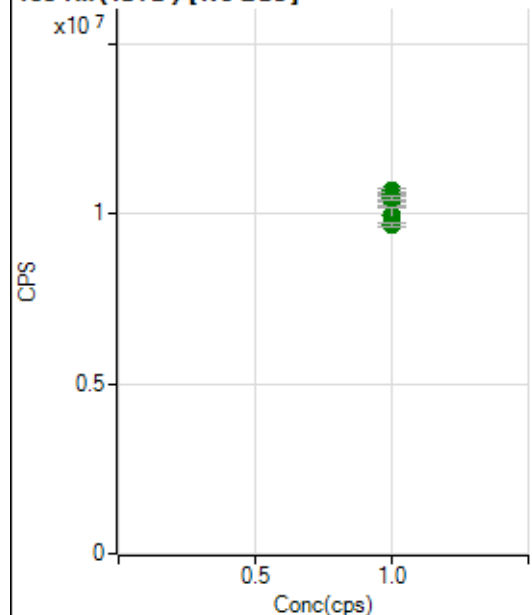
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		238857.07		P	1.3
2	☐	1.000		234313.42		P	0.9
3	☐	1.000		234414.58		P	1.9
4	☐	1.000		238519.19		P	1.3
5	☐	1.000		248820.79		P	1.2
6	☐	1.000		243607.77		P	1.7
7	☐	1.000		259498.79		P	10.0
8	☐	1.000		247988.13		P	0.9

89 Y (ISTD) [No Gas]

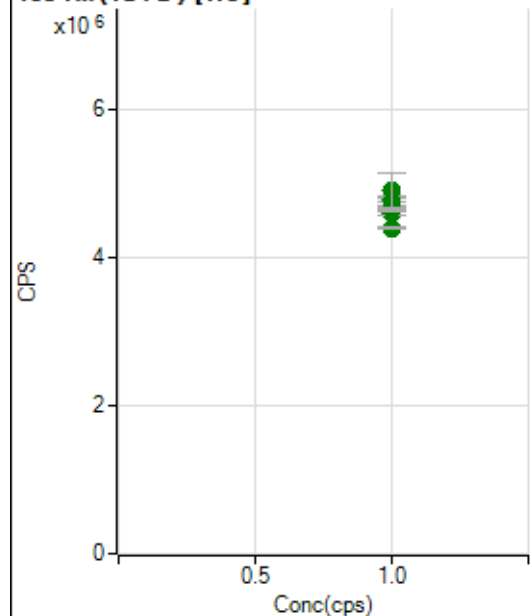
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		21306199.26		A	2.3
2	☐	1.000		21293469.54		A	1.8
3	☐	1.000		22456048.83		A	0.5
4	☐	1.000		21687484.68		A	1.2
5	☐	1.000		22482714.67		A	2.2
6	☐	1.000		21749868.56		A	0.9
7	☐	1.000		22198669.53		A	7.0
8	☐	1.000		22164815.78		A	1.6

89 Y (ISTD) [He]

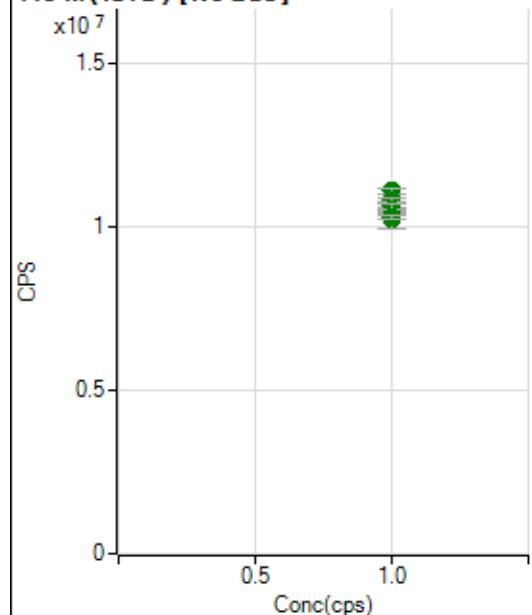
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1985584.21		A	0.7
2	☐	1.000		1961062.73		A	0.5
3	☐	1.000		1980768.69		A	1.3
4	☐	1.000		2018935.44		A	1.7
5	☐	1.000		2060323.65		A	1.0
6	☐	1.000		1999463.89		A	1.4
7	☐	1.000		2167983.62		A	11.2
8	☐	1.000		2151442.66		A	0.7

103 Rh (ISTD) [No Gas]

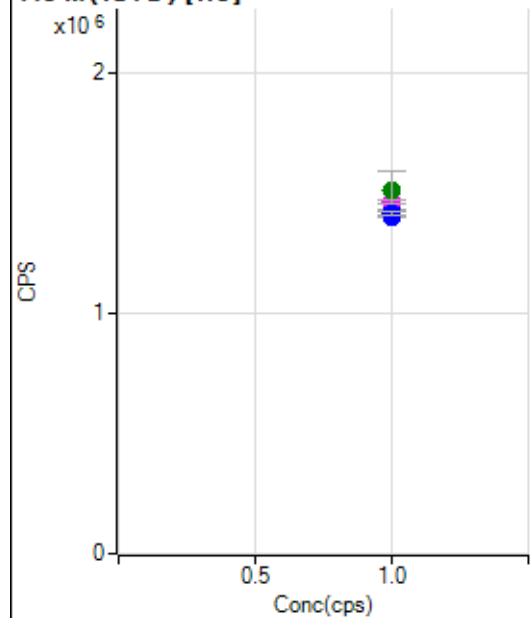
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10374294.42		A	0.8
2	☐	1.000		10370705.96		A	3.6
3	☐	1.000		10660361.35		A	1.1
4	☐	1.000		10387684.87		A	2.7
5	☐	1.000		10563041.12		A	1.5
6	☐	1.000		10456912.39		A	1.4
7	☐	1.000		9950520.36		A	4.1
8	☐	1.000		9670518.27		A	1.3

103 Rh (ISTD) [He]

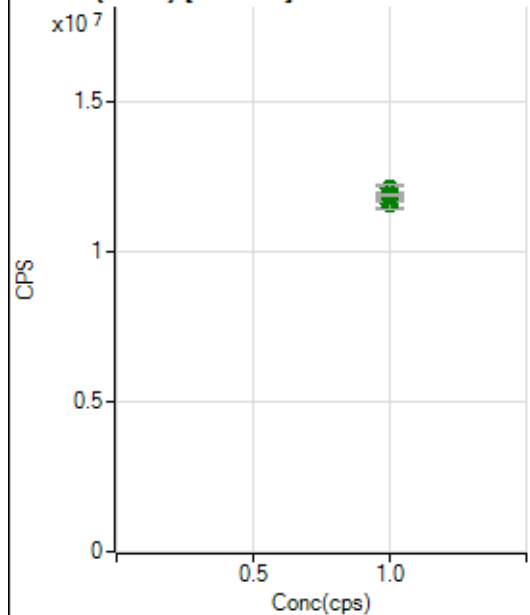
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4656218.75		A	1.4
2	☐	1.000		4594322.99		A	1.5
3	☐	1.000		4640151.11		A	1.4
4	☐	1.000		4768528.37		A	1.3
5	☐	1.000		4757991.67		A	2.2
6	☐	1.000		4646382.12		A	1.3
7	☐	1.000		4890505.45		A	10.3
8	☐	1.000		4385292.78		A	0.4

115 In (ISTD) [No Gas]

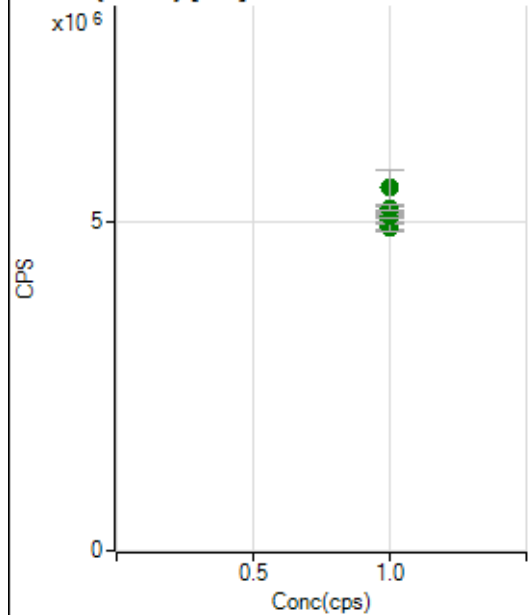
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10413383.39		A	2.6
2	☐	1.000		10592556.33		A	2.5
3	☐	1.000		11113908.57		A	1.9
4	☐	1.000		10640299.55		A	1.2
5	☐	1.000		10832069.48		A	0.9
6	☐	1.000		10571981.05		A	2.4
7	☐	1.000		10237047.05		A	5.6
8	☐	1.000		10303826.99		A	1.3

115 In (ISTD) [He]

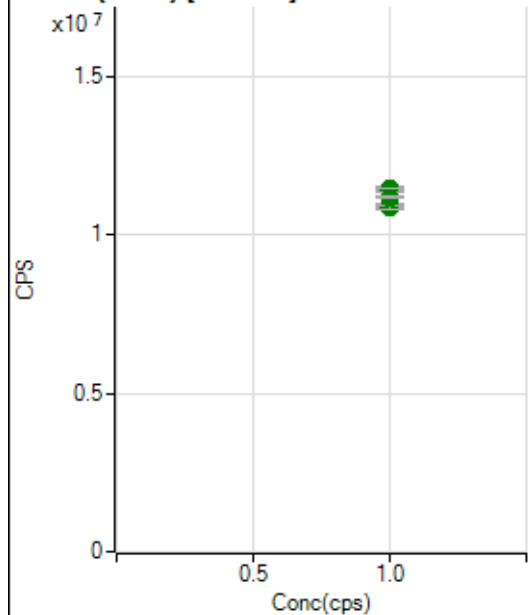
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1425205.48		P	0.6
2	☐	1.000		1400404.47		P	0.9
3	☐	1.000		1417674.21		M	1.3
4	☐	1.000		1421606.78		P	0.4
5	☐	1.000		1464135.46		M	1.3
6	☐	1.000		1403231.46		P	0.8
7	☐	1.000		1507155.28		A	11.3
8	☐	1.000		1414054.59		P	1.1

159 Tb (ISTD) [No Gas]

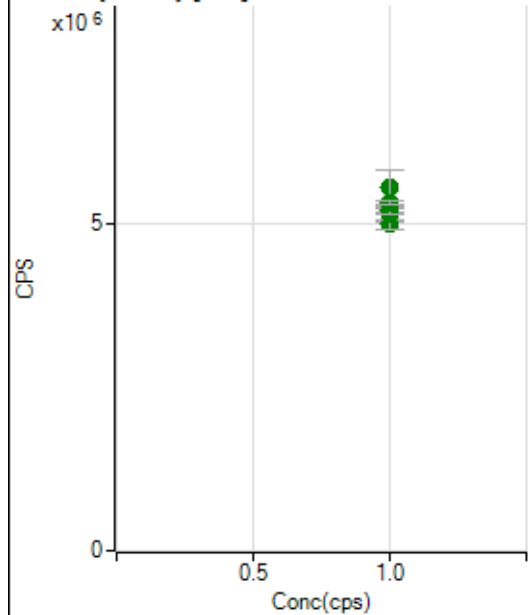
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		11588846.21		A	1.5
2	☐	1.000		11582360.80		A	3.5
3	☐	1.000		12095267.88		A	1.6
4	☐	1.000		11853241.91		A	0.8
5	☐	1.000		11891029.96		A	1.8
6	☐	1.000		11862023.99		A	2.0
7	☐	1.000		11943559.82		A	4.7
8	☐	1.000		11888618.16		A	0.4

159 Tb (ISTD) [He]

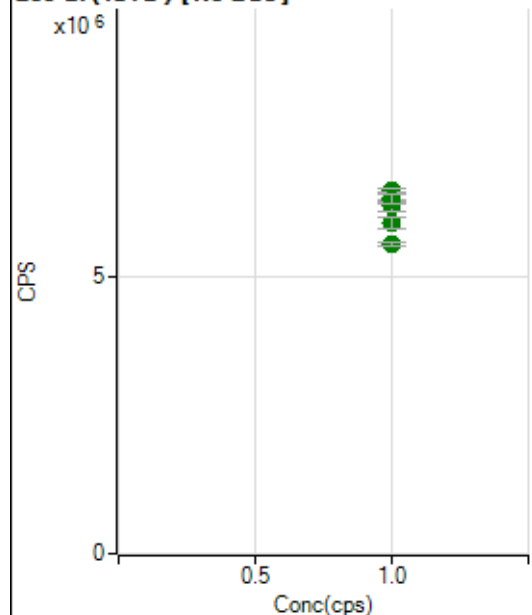
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5047905.31		A	2.1
2	☐	1.000		4944849.61		A	2.3
3	☐	1.000		4909721.14		A	2.2
4	☐	1.000		5096817.56		A	0.9
5	☐	1.000		5203504.75		A	1.7
6	☐	1.000		5099347.91		A	1.2
7	☐	1.000		5522477.45		A	9.8
8	☐	1.000		5224460.16		A	1.3

165 Ho (ISTD) [No Gas]

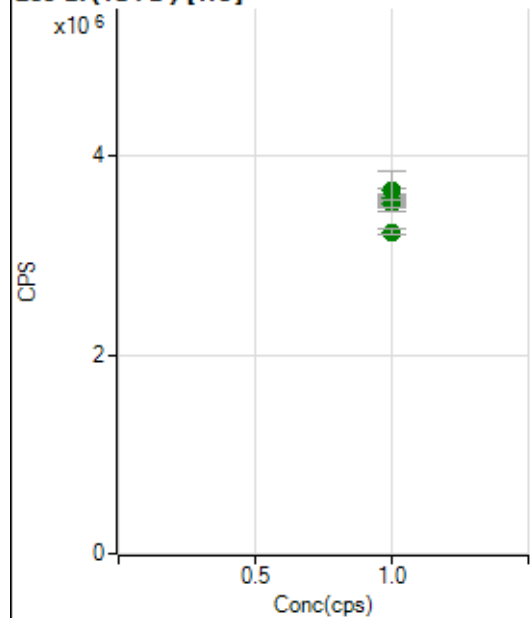
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10920884.27		A	1.5
2	☐	1.000		10868182.36		A	1.1
3	☐	1.000		11422001.04		A	1.5
4	☐	1.000		11424907.12		A	1.3
5	☐	1.000		11449928.64		A	0.7
6	☐	1.000		11412583.15		A	1.2
7	☐	1.000		11137443.48		A	5.9
8	☐	1.000		11181481.33		A	0.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5030761.04		A	0.6
2	☐	1.000		5016544.09		A	0.4
3	☐	1.000		4980228.92		A	2.8
4	☐	1.000		5149767.53		A	1.0
5	☐	1.000		5286599.02		A	2.5
6	☐	1.000		5183028.67		A	2.3
7	☐	1.000		5538705.72		A	9.6
8	☐	1.000		5308216.97		A	1.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6365204.00		A	1.1
2	☐	1.000		6300752.54		A	3.3
3	☐	1.000		6552623.86		A	1.1
4	☐	1.000		6430626.36		A	2.6
5	☐	1.000		6427460.11		A	2.7
6	☐	1.000		6400319.14		A	2.4
7	☐	1.000		5975191.30		A	3.5
8	☐	1.000		5591087.69		A	0.9

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3553365.26		A	1.9
2	☐	1.000		3521938.73		A	0.5
3	☐	1.000		3558404.81		A	1.6
4	☐	1.000		3577275.19		A	1.6
5	☐	1.000		3653209.98		A	1.7
6	☐	1.000		3521426.27		A	2.4
7	☐	1.000		3652099.60		A	11.2
8	☐	1.000		3243259.15		A	1.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8102821-MS.b
Acq. Date-Time 2021-10-28 10:51:16
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		17918	179183.74			0.521	5.000
24		158127	1581265.48			0.996	5.000
25		21115	211150.02			0.931	5.000
26		24316	243155.19			1.017	5.000
59		36852	368516.70			0.791	5.000
113		14594	145942.44			1.056	5.000
115		47798	477980.32			1.299	5.000
206		16060	160604.12			1.294	5.000
207		13474	134738.32			1.608	5.000
208		33395	333953.82			1.860	5.000
220		0	4.70			33.303	

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

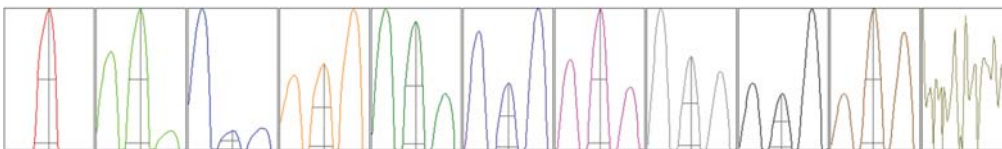
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	17862	17805	18038	17904	17983
24	160098	155703	158066	158285	158480
25	21453	21067	20947	21089	21019
26	24690	24074	24146	24242	24425
59	36609	36469	37012	37065	37103
113	14565	14344	14699	14732	14631
115	48809	47650	47874	47492	47166
206	15819	15848	16227	16188	16220
207	13217	13264	13574	13636	13677
208	32755	32790	33420	34110	33901

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	31919.50	9.00	8.90 - 9.10	
24	273313.13	24.00	23.90 - 24.10	
25	36553.81	25.00	24.90 - 25.10	
26	41862.46	26.00	25.90 - 26.10	
59	67923.91	59.00	58.90 - 59.10	
113	29361.03	113.05	112.90 - 113.10	
115	96491.49	115.05	114.90 - 115.10	
206	31901.82	206.00	205.90 - 206.10	
207	26640.67	206.95	206.90 - 207.10	
208	66922.23	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.777	0.900	
24	0.62	0.788	0.900	
25	0.61	0.785	0.900	
26	0.62	0.788	0.900	
59	0.57	0.737	0.900	
113	0.51	0.726	0.900	
115	0.52	0.731	0.900	
206	0.51	0.741	0.900	
207	0.52	0.768	0.900	
208	0.51	0.767	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode ---

Nebulizer Gas 0.73 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	8.7 V	Deflect	14.2 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	160 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.8 mm
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EM

Discriminator	3.9 mV	Analog HV	2261 V	Pulse HV	1550 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		7688	76884.71			0.878	
89		19110	191100.00			1.059	
205		14081	140809.34			0.790	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	7757	7715	7682	7711	7578
89	19171	19175	19153	19290	18761
205	14056	13972	14044	14269	14064

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	8.7 V	Deflect	4.4 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	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.8 mm
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EM

Discriminator	3.9 mV	Analog HV	2261 V	Pulse HV	1550 V
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