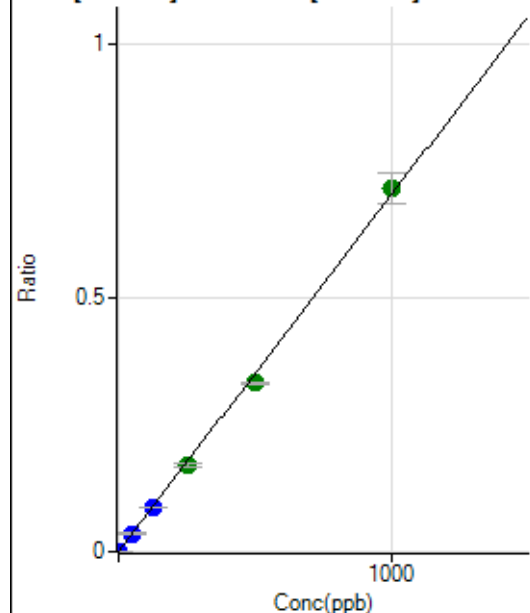


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7021327 MS.b\
Analysis File: P7021327 MS.batch.bin
DA Date-Time: 2024-02-14 01:50:53
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-02-13 17:59:14
2	005CALS.d	S02	2024-02-13 18:02:29
3	006CALS.d	S03	2024-02-13 18:05:45
4	007CALS.d	S04	2024-02-13 18:08:37
5	008CALS.d	S05	2024-02-13 18:11:24
6	009CALS.d	S06	2024-02-13 18:14:09
7	010CALS.d	S07	2024-02-13 18:16:56
8	011CALS.d	S08	2024-02-13 18:19:41

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	66.66	0.0000	P	22.0
2	☐	1.000	1.019	5139.78	0.0007	P	2.5
3	☐	50.000	51.104	258881.49	0.0360	P	2.1
4	☐	125.000	124.691	625297.11	0.0877	P	0.9
5	☐	250.000	242.068	1211989.13	0.1703	A	3.0
6	☐	500.000	471.437	2295432.92	0.3317	A	0.9
7	☐	1000.000	1016.248	4506449.48	0.7149	A	8.5
8	☐			1277.85	0.0002	P	13.4

$$y = 7.0350\text{E-}004 * x + 9.3630\text{E-}006$$

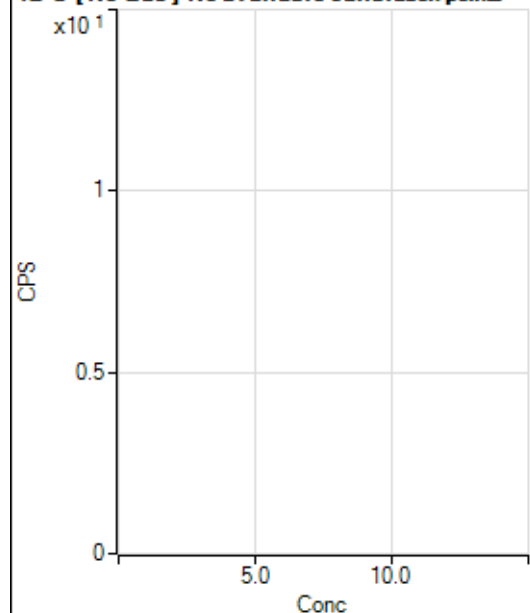
$$R = 0.9994$$

$$DL = 0.0088$$

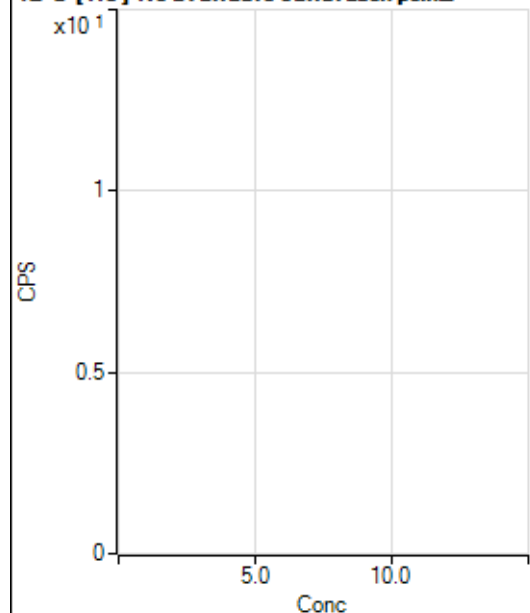
$$BEC = 0.01331$$

Weight: <None>

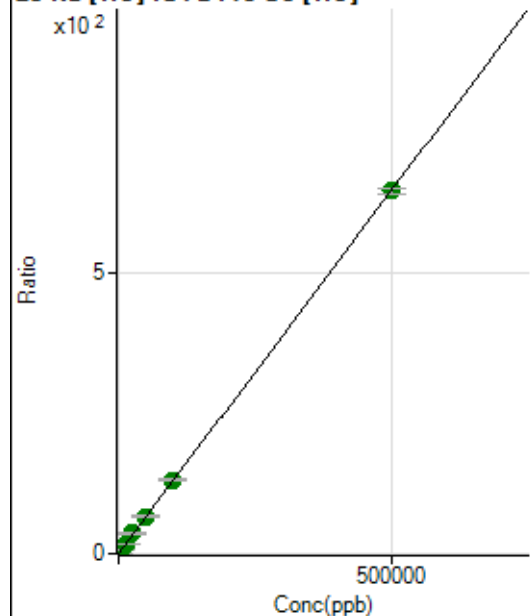
Min Conc: 0

12 C [No Gas] No available calibration points

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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	26433.88	0.0204	P	0.5
2	☐	500.000	498.963	851471.62	0.6641	P	0.9
3	☐	5000.000	5240.486	8509950.64	6.7811	A	3.0
4	☐	12500.000	13115.862	20813971.49	16.9410	A	1.2
5	☐	25000.000	27986.725	41296754.94	36.1256	A	7.9
6	☐	50000.000	51516.742	81946135.44	66.4812	A	2.8
7	☐	100000.00	101498.09	166055743.08	130.9613	A	1.0
8	☐	500000.00	499381.57	774845295.12	644.2635	A	1.3

$$y = 0.0013 * x + 0.0204$$

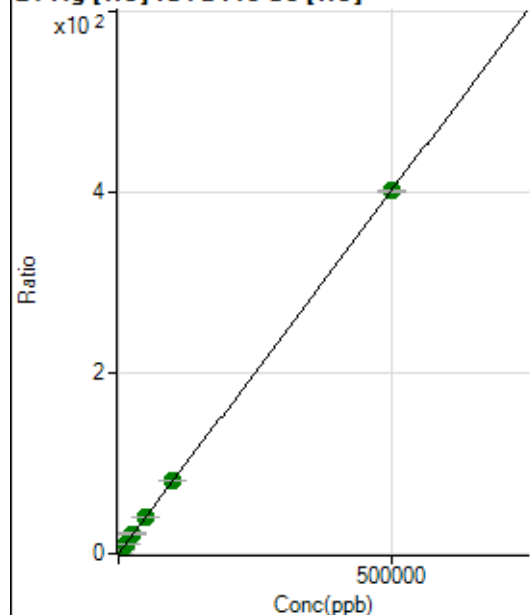
$$R = 1.0000$$

$$DL = 0.2375$$

$$BEC = 15.83$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	427.79	0.0003	P	9.6
2	☐	500.000	496.891	511966.58	0.3993	P	1.4
3	☐	5000.000	5166.978	5207576.97	4.1494	A	2.6
4	☐	12500.000	12941.151	12767900.09	10.3921	A	1.2
5	☐	25000.000	27520.166	25265224.07	22.0990	A	7.7
6	☐	50000.000	50198.354	49687460.93	40.3096	A	2.7
7	☐	100000.00	99801.464	101618544.04	80.1410	A	0.7
8	☐	500000.00	499881.16	482783303.92	401.4051	A	0.6

$$y = 8.0300\text{E-}004 * x + 3.3064\text{E-}004$$

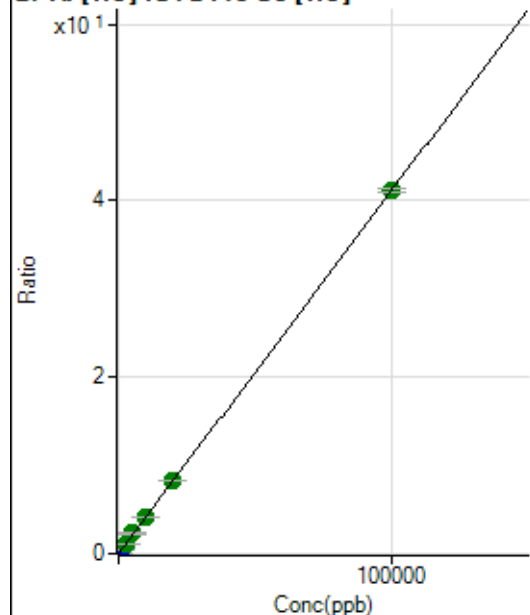
$$R = 1.0000$$

$$DL = 0.118$$

$$BEC = 0.4118$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	503.35	0.0004	P	7.2
2	☐	20.000	23.741	13020.08	0.0102	P	2.3
3	☐	1000.000	1064.578	550059.62	0.4383	P	3.3
4	☐	2500.000	2606.680	1317948.65	1.0728	A	1.7
5	☐	5000.000	5580.616	2626040.63	2.2962	A	6.9
6	☐	10000.000	10086.842	5115828.57	4.1500	A	2.3
7	☐	20000.000	20014.238	10440598.11	8.2341	A	1.2
8	☐	100000.00	99956.124	49458015.37	41.1214	A	1.0

$$y = 4.1139\text{E-}004 * x + 3.8887\text{E-}004$$

$$R = 1.0000$$

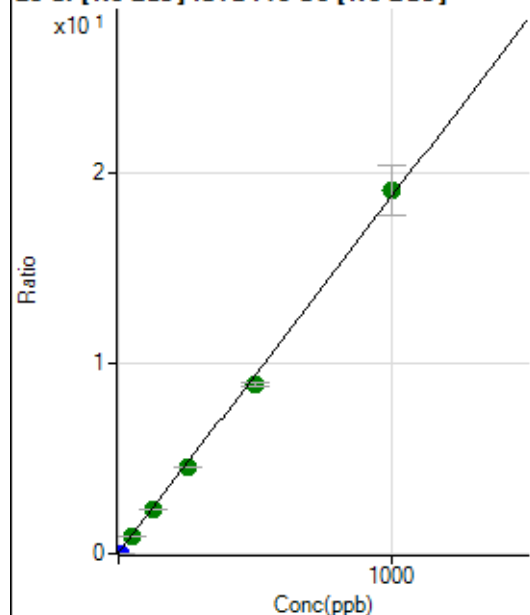
$$DL = 0.2039$$

$$BEC = 0.9453$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	641090.47	0.0402	P	2.0
2	☐	10.000	0.232	699430.93	0.0445	P	3.1
3	☐	50.000	48.761	15238120.19	0.9536	A	0.8
4	☐	125.000	120.825	35683764.19	2.3035	A	1.3
5	☐	250.000	240.980	69520052.30	4.5544	A	0.2
6	☐	500.000	472.716	134911293.55	8.8954	A	2.7
7	☐	1000.000	1016.579	266738967.14	19.0834	A	13.7
8	☐			1890848.46	0.1296	A	4.8

$$y = 0.0187 * x + 0.0402$$

$$R = 0.9994$$

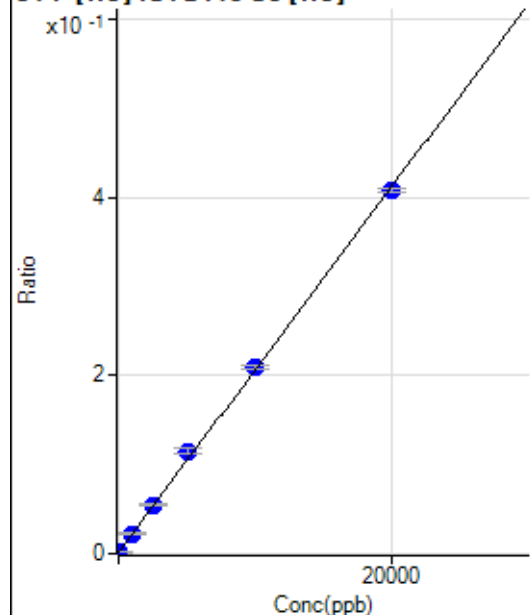
$$DL = 0.1312$$

$$BEC = 2.144$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-15.024	1301.18	0.0010	P	3.7
2	☐	0.000	15.024	2079.05	0.0016	P	3.7
3	☐	1000.000	1039.124	28387.44	0.0226	P	3.7
4	☐	2500.000	2601.100	67141.85	0.0547	P	2.2
5	☐	5000.000	5548.705	131674.58	0.1151	P	6.2
6	☐	10000.000	10125.127	257601.40	0.2089	P	1.5
7	☐	20000.000	19785.667	516130.02	0.4070	P	1.0
8	☐			1545.65	0.0013	P	3.5

$$y = 2.0506E-005 * x + 0.0013$$

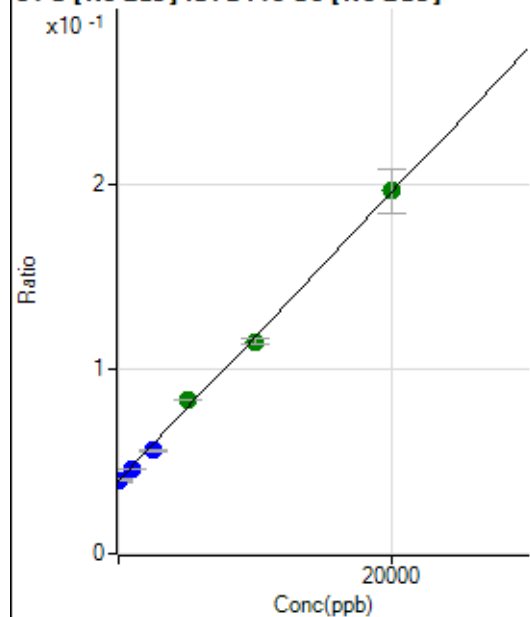
$$R = 0.9995$$

$$DL = 7.08$$

$$BEC = 64.06$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-52.379	625091.09	0.0392	P	1.8
2	☐	0.000	52.379	628148.69	0.0400	P	2.6
3	☐	1000.000	776.220	728971.32	0.0456	P	0.4
4	☐	2500.000	2072.987	863367.89	0.0557	P	1.1
5	☐	5000.000	5596.277	1270219.44	0.0832	A	1.0
6	☐	10000.000	9642.039	1740638.31	0.1148	A	3.2
7	☐	20000.000	20094.477	2747396.07	0.1963	A	12.3
8	☐			515506.72	0.0353	P	3.2

$$y = 7.8010\text{E-}006 * x + 0.0396$$

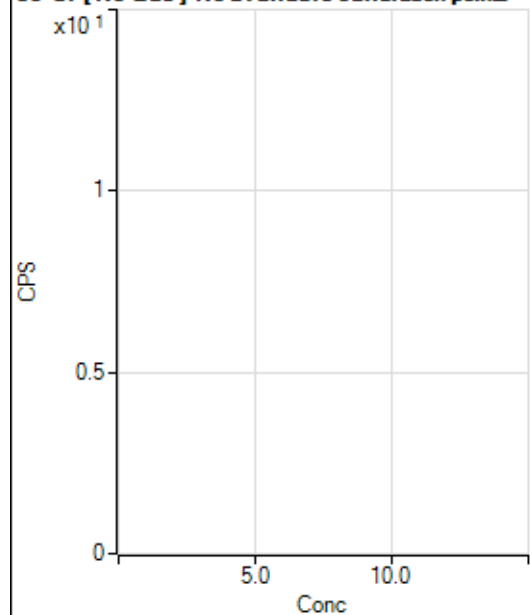
$$R = 0.9989$$

$$DL = 335.1$$

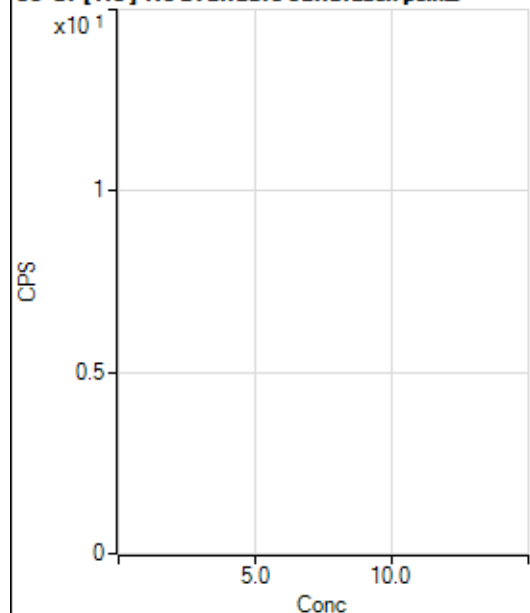
$$BEC = 5071$$

Weight: <None>

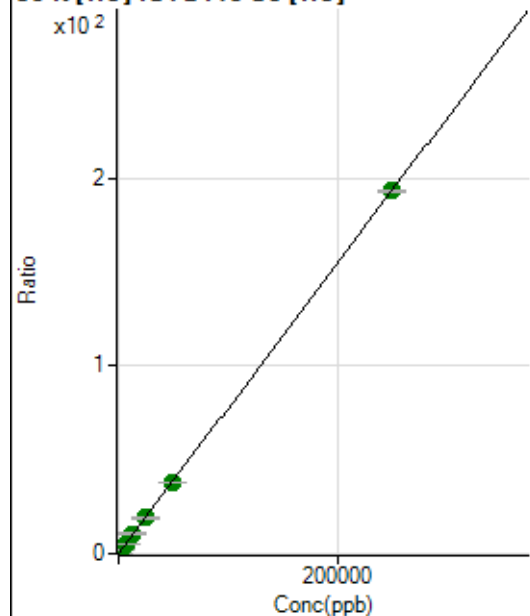
Min Conc: 0

35 Cl [No Gas] No available calibration points

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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	103604.81	0.0801	P	0.8
2	☐	500.000	493.577	591154.81	0.4611	P	0.7
3	☐	2500.000	2499.368	2522112.38	2.0095	A	2.4
4	☐	6250.000	6204.792	5983121.02	4.8699	A	1.4
5	☐	12500.000	13496.261	12004627.46	10.4987	A	7.3
6	☐	25000.000	24568.141	23479286.04	19.0458	A	2.0
7	☐	50000.000	48672.130	47743282.07	37.6532	A	1.2
8	☐	250000.00	250260.09	232452756.54	193.2721	A	0.4

$$y = 7.7196E-004 * x + 0.0801$$

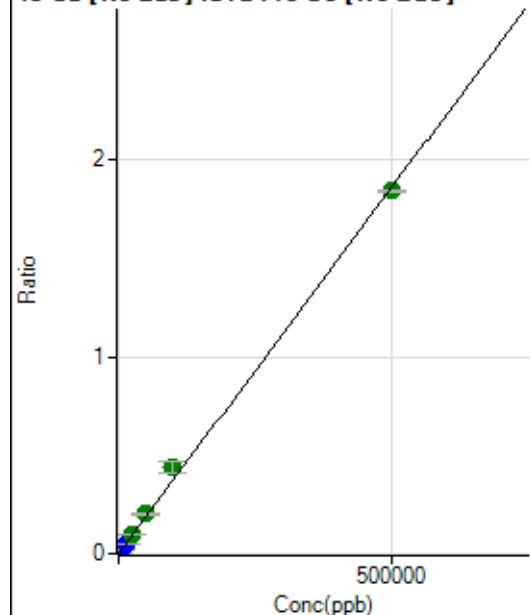
$$R = 1.0000$$

$$DL = 2.459$$

$$BEC = 103.7$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	846.51	0.0001	P	2.6
2	☐	500.000	513.201	30841.86	0.0020	P	2.1
3	☐	5000.000	5435.616	323992.96	0.0203	P	1.2
4	☐	12500.000	13502.213	778973.62	0.0503	P	1.1
5	☐	25000.000	27239.589	1547581.55	0.1014	A	1.6
6	☐	50000.000	53875.336	3040508.31	0.2005	A	2.9
7	☐	100000.00	119156.27	6196346.45	0.4433	A	13.8
8	☐	500000.00	495639.80	26907491.68	1.8440	A	0.4

$$y = 3.7203\text{E-}006 * x + 5.3008\text{E-}005$$

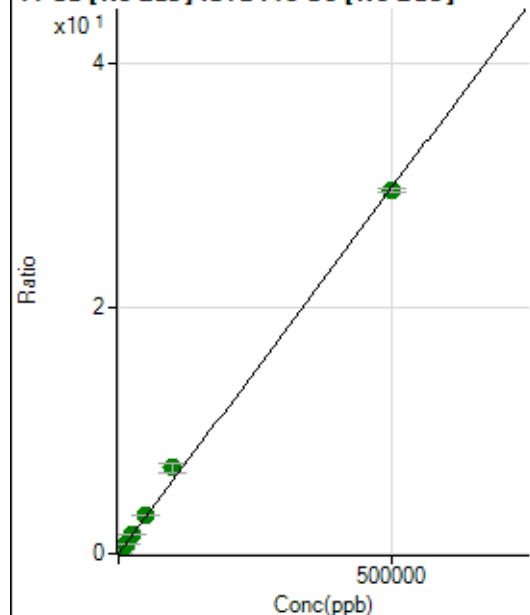
$$R = 0.9992$$

$$DL = 1.126$$

$$BEC = 14.25$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	21953.08	0.0014	P	3.2
2	☐	500.000	520.685	509141.56	0.0324	P	2.3
3	☐	5000.000	5181.617	4955101.16	0.3101	A	1.1
4	☐	12500.000	13079.559	12092780.04	0.7806	A	1.4
5	☐	25000.000	26371.556	24003241.18	1.5725	A	0.5
6	☐	50000.000	52325.567	47309852.30	3.1188	A	1.7
7	☐	100000.00	117350.21	97854354.83	6.9927	A	12.4
8	☐	500000.00	496212.49	431398520.46	29.5642	A	1.0

$$y = 5.9577\text{E-}005 * x + 0.0014$$

$$R = 0.9993$$

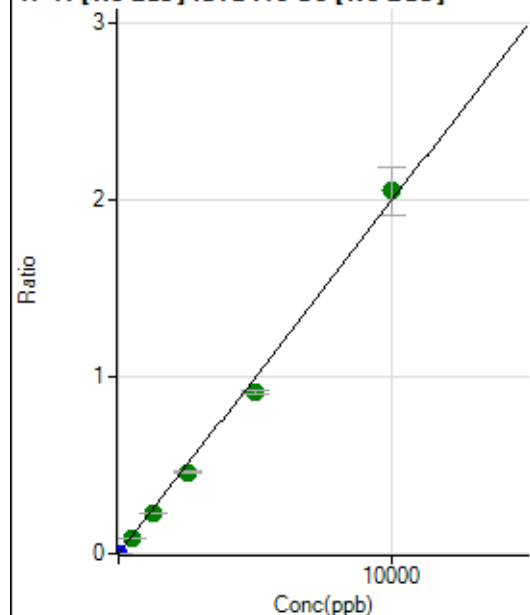
$$DL = 2.235$$

$$BEC = 23.08$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	227.78	0.0000	P	11.0
2	☐	5.000	4.425	14108.90	0.0009	P	2.3
3	☐	500.000	452.649	1444420.85	0.0904	A	1.7
4	☐	1250.000	1139.323	3524228.56	0.2275	A	0.3
5	☐	2500.000	2303.809	7021235.66	0.4600	A	1.3
6	☐	5000.000	4571.084	13842896.04	0.9127	A	2.4
7	☐	10000.000	10279.708	28704764.29	2.0525	A	13.1
8	☐			6863.85	0.0005	P	7.2

$$y = 1.9966\text{E-}004 * x + 1.4276\text{E-}005$$

$$R = 0.9985$$

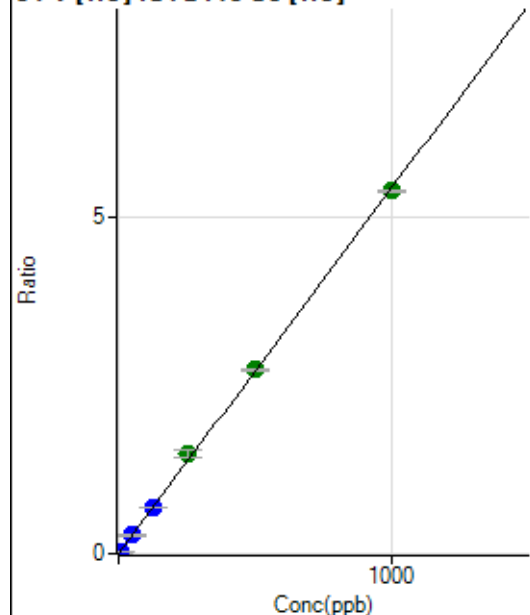
$$DL = 0.02358$$

$$BEC = 0.0715$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	14.44	0.0000	P	58.4
2	☐	5.000	4.869	33970.45	0.0265	P	2.0
3	☐	50.000	50.109	342035.48	0.2725	P	2.8
4	☐	125.000	126.470	845106.83	0.6879	P	1.5
5	☐	250.000	272.352	1693630.57	1.4813	A	7.6
6	☐	500.000	503.197	3374150.44	2.7369	A	1.7
7	☐	1000.000	992.625	6845663.37	5.3988	A	0.8
8	☐			2592.47	0.0022	P	6.2

$$y = 0.0054 * x + 1.1184\text{E-}005$$

$$R = 0.9997$$

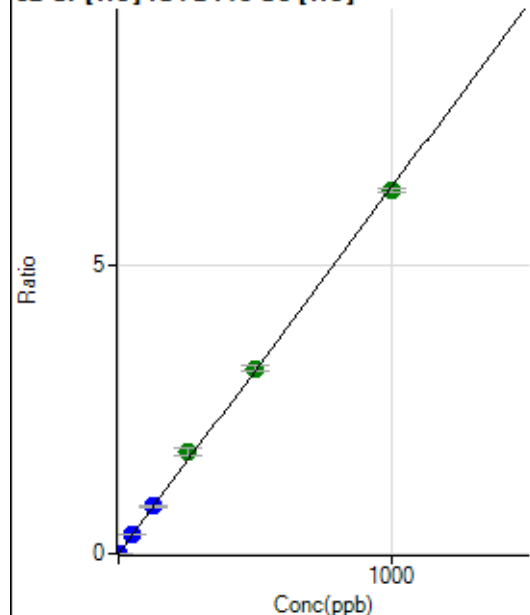
$$DL = 0.003602$$

$$BEC = 0.002056$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2813.62	0.0022	P	4.2
2	☐	2.000	1.995	19047.71	0.0149	P	3.0
3	☐	50.000	51.395	412757.28	0.3289	P	2.2
4	☐	125.000	129.013	1010184.64	0.8222	P	1.5
5	☐	250.000	276.822	2014384.64	1.7618	A	7.5
6	☐	500.000	505.054	3960132.51	3.2126	A	2.7
7	☐	1000.000	990.196	7983674.81	6.2964	A	0.9
8	☐			116986.71	0.0973	P	0.6

$$y = 0.0064 * x + 0.0022$$

$$R = 0.9996$$

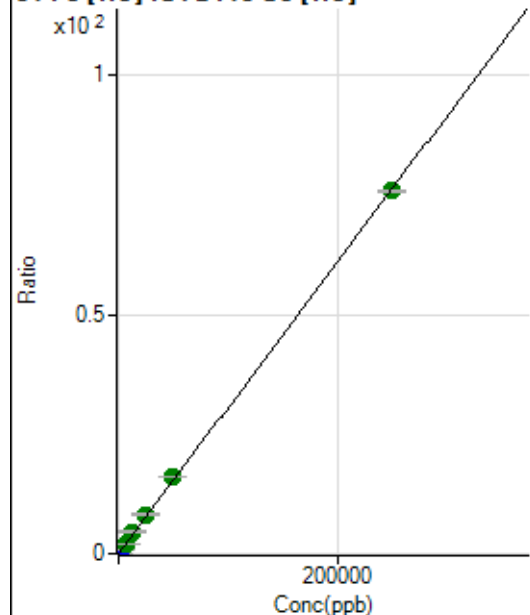
$$DL = 0.04316$$

$$BEC = 0.3421$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2905.87	0.0022	P	7.6
2	☐	50.000	54.970	24344.17	0.0190	P	0.7
3	☐	2500.000	2816.614	1079335.86	0.8601	P	2.9
4	☐	6250.000	6935.919	2597939.18	2.1146	A	1.6
5	☐	12500.000	14689.070	5118079.16	4.4759	A	7.3
6	☐	25000.000	26847.556	10081198.60	8.1788	A	2.9
7	☐	50000.000	52689.786	20350226.78	16.0493	A	0.8
8	☐	250000.00	249147.51	91264226.42	75.8818	A	0.8

$$y = 3.0456E-004 * x + 0.0022$$

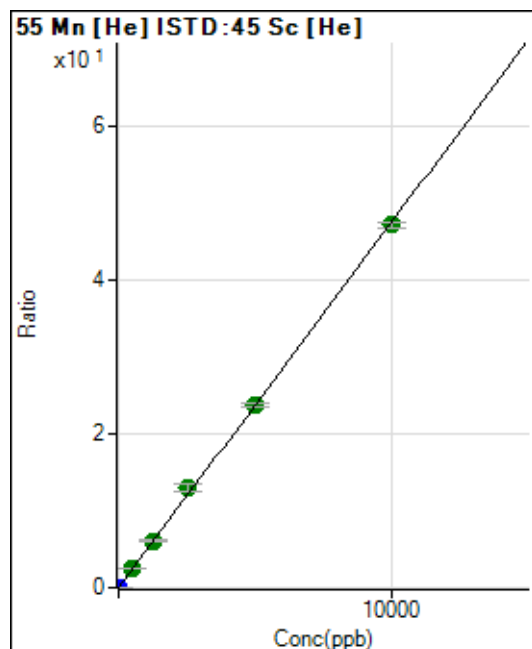
$$R = 0.9999$$

$$DL = 1.683$$

$$BEC = 7.374$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	448.90	0.0003	P	10.1
2	☐	1.000	0.941	6171.31	0.0048	P	2.3
3	☐	500.000	509.807	3036871.17	2.4200	A	3.0
4	☐	1250.000	1284.260	7488510.24	6.0957	A	2.2
5	☐	2500.000	2747.685	14911449.50	13.0415	A	7.5
6	☐	5000.000	5006.181	29287998.45	23.7608	A	2.8
7	☐	10000.000	9930.215	59760666.89	47.1313	A	1.4
8	☐			46243.04	0.0384	P	1.6

$$y = 0.0047 * x + 3.4673E-004$$

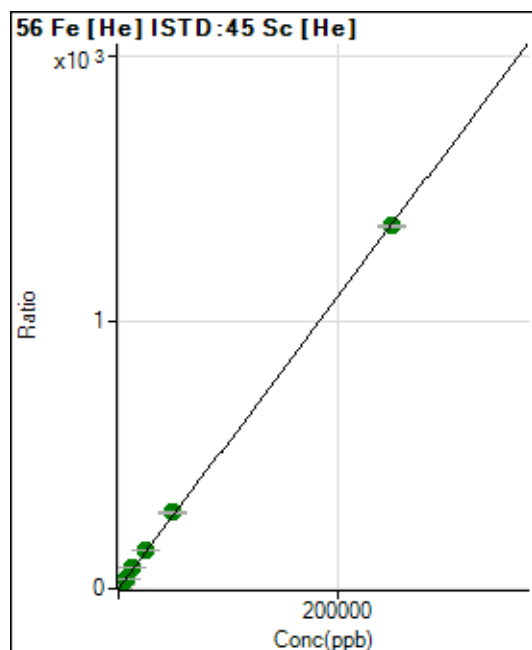
$$R = 0.9997$$

$$DL = 0.02221$$

$$BEC = 0.07305$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	19720.83	0.0152	P	0.8
2	☐	50.000	53.052	391125.10	0.3051	P	0.6
3	☐	2500.000	2707.206	18577549.58	14.8046	A	3.3
4	☐	6250.000	6793.894	45614708.21	37.1300	A	1.9
5	☐	12500.000	14565.291	90997319.76	79.5848	A	7.5
6	☐	25000.000	26476.672	178304308.45	144.6562	A	2.9
7	☐	50000.000	52369.252	362776741.26	286.1064	A	1.0
8	☐	250000.00	249259.54	1637754002.2	1,361.710	A	0.6

$$y = 0.0055 * x + 0.0152$$

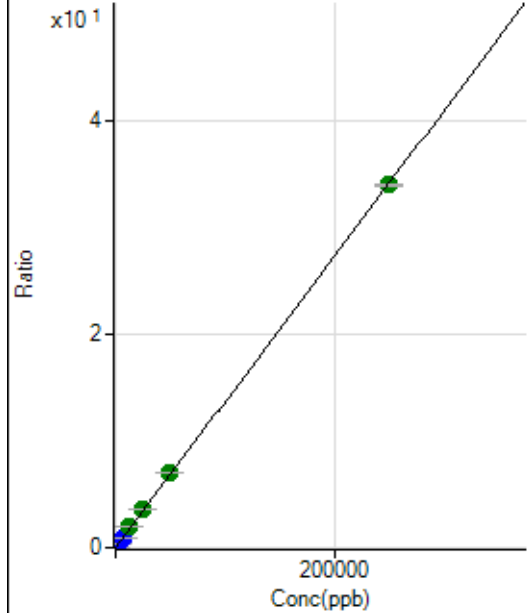
$$R = 0.9999$$

$$DL = 0.06644$$

$$BEC = 2.79$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1007.82	0.0008	P	7.9
2	☐	50.000	54.943	10602.70	0.0083	P	1.6
3	☐	2500.000	2796.425	479505.08	0.3820	P	1.7
4	☐	6250.000	7012.883	1175533.66	0.9569	P	1.7
5	☐	12500.000	14463.444	2256929.64	1.9726	A	6.0
6	☐	25000.000	26232.271	4409720.98	3.5770	A	2.3
7	☐	50000.000	51632.850	8926279.17	7.0399	A	1.7
8	☐	250000.00	249429.99	40899299.94	34.0058	A	0.5

$$y = 1.3633\text{E-}004 * x + 7.7853\text{E-}004$$

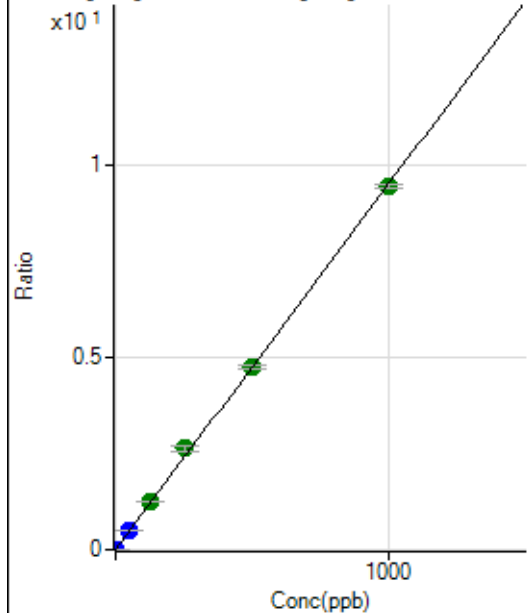
$$R = 1.0000$$

$$DL = 1.349$$

$$BEC = 5.711$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	242.23	0.0002	P	17.5
2	☐	1.000	1.037	12871.14	0.0100	P	1.9
3	☐	50.000	51.520	614491.36	0.4897	P	3.1
4	☐	125.000	130.589	1524574.40	1.2409	A	1.3
5	☐	250.000	276.400	3003598.43	2.6262	A	6.8
6	☐	500.000	499.954	5856509.29	4.7502	A	1.5
7	☐	1000.000	992.648	11958695.80	9.4312	A	1.0
8	☐			32525.23	0.0270	P	0.7

$$y = 0.0095 * x + 1.8725\text{E-}004$$

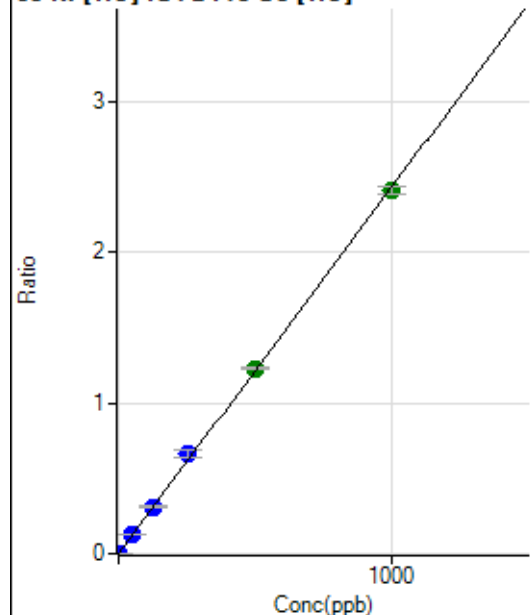
$$R = 0.9996$$

$$DL = 0.01037$$

$$BEC = 0.01971$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	248.90	0.0002	P	15.7
2	☐	1.000	1.003	3371.52	0.0026	P	4.7
3	☐	50.000	51.693	157972.99	0.1259	P	2.4
4	☐	125.000	128.531	384138.67	0.3127	P	1.8
5	☐	250.000	273.406	760367.18	0.6649	P	7.1
6	☐	500.000	506.310	1517896.75	1.2311	A	1.3
7	☐	1000.000	990.468	3053493.74	2.4082	A	2.1
8	☐			29192.88	0.0243	P	0.7

$$y = 0.0024 * x + 1.9235E-004$$

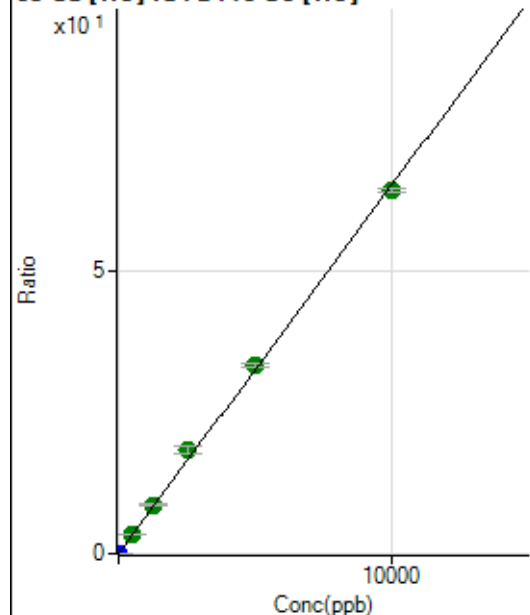
$$R = 0.9997$$

$$DL = 0.03715$$

$$BEC = 0.07912$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1995.71	0.0015	P	5.2
2	☐	2.000	2.026	18837.51	0.0147	P	2.6
3	☐	500.000	529.207	4314199.76	3.4376	A	2.7
4	☐	1250.000	1319.117	10523637.14	8.5664	A	2.2
5	☐	2500.000	2810.770	20862004.83	18.2515	A	8.2
6	☐	5000.000	5120.634	40988741.34	33.2492	A	2.2
7	☐	10000.000	9851.890	81110755.46	63.9686	A	1.0
8	☐			27017.77	0.0225	P	0.5

$$y = 0.0065 * x + 0.0015$$

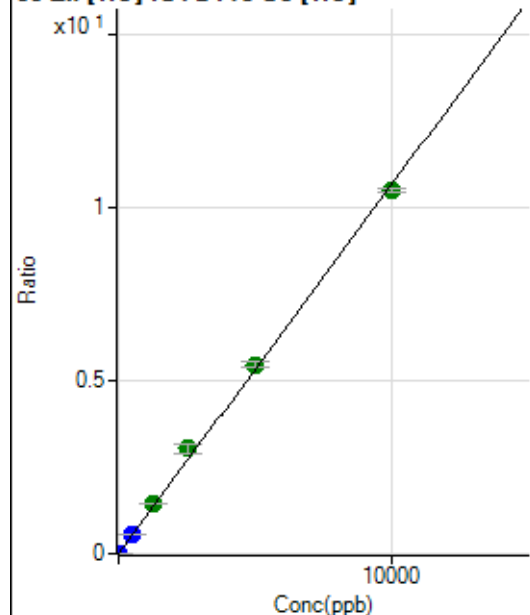
$$R = 0.9993$$

$$DL = 0.03737$$

$$BEC = 0.2375$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1532.32	0.0012	P	3.3
2	☐	5.000	4.963	8300.15	0.0065	P	1.6
3	☐	500.000	532.542	713842.69	0.5688	P	2.4
4	☐	1250.000	1348.192	1766911.24	1.4381	A	1.1
5	☐	2500.000	2842.636	3465080.54	3.0309	A	7.7
6	☐	5000.000	5127.659	6737998.23	5.4663	A	2.7
7	☐	10000.000	9836.610	13295050.35	10.4852	A	1.0
8	☐			18607.21	0.0155	P	0.8

$$y = 0.0011 * x + 0.0012$$

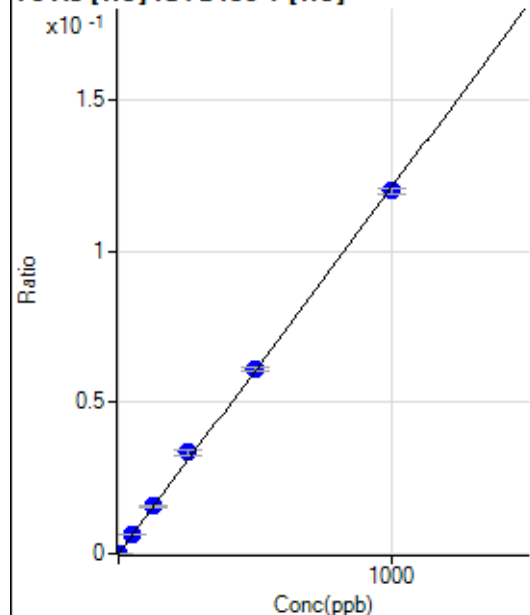
$$R = 0.9992$$

$$DL = 0.1085$$

$$BEC = 1.111$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	13.33	0.0000	P	25.0
2	☐	1.000	1.022	834.48	0.0001	P	5.4
3	☐	50.000	51.998	41808.74	0.0063	P	1.6
4	☐	125.000	129.403	102745.63	0.0157	P	2.5
5	☐	250.000	276.154	204956.23	0.0335	P	7.2
6	☐	500.000	504.027	402126.29	0.0611	P	2.9
7	☐	1000.000	990.798	805321.30	0.1200	P	1.8
8	☐			370.01	0.0001	P	7.4

$$y = 1.2116E-004 * x + 1.9723E-006$$

$$R = 0.9996$$

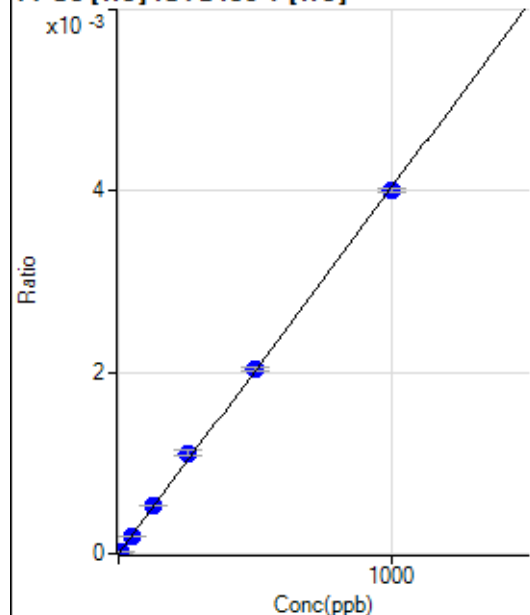
$$DL = 0.01222$$

$$BEC = 0.01628$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	5.897	158.89	0.0000	P	9.9
3	☐	50.000	48.131	1290.07	0.0002	P	1.4
4	☐	125.000	131.302	3474.89	0.0005	P	2.6
5	☐	250.000	274.094	6786.06	0.0011	P	5.2
6	☐	500.000	504.834	13422.85	0.0020	P	1.6
7	☐	1000.000	990.861	26836.60	0.0040	P	1.0
8	☐			16.66	0.0000	P	35.6

$$y = 4.0369\text{E-}006 * x + 1.6378\text{E-}007$$

$$R = 0.9996$$

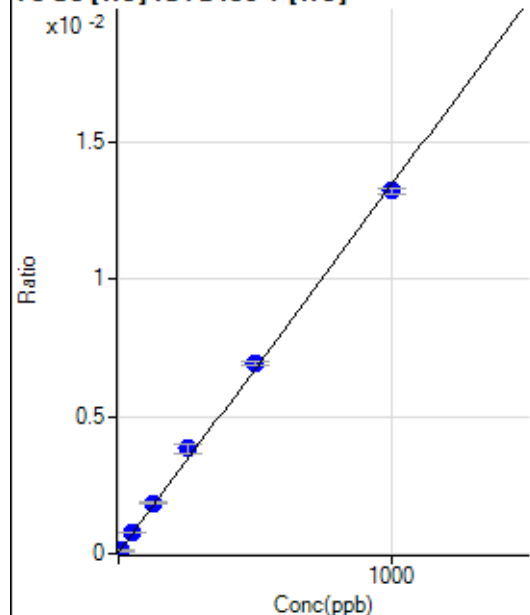
$$DL = 0.2108$$

$$BEC = 0.04057$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	263.34	0.0000	P	8.7
2	☐	5.000	4.967	698.91	0.0001	P	4.2
3	☐	50.000	52.749	4941.98	0.0007	P	1.7
4	☐	125.000	133.659	11977.15	0.0018	P	3.6
5	☐	250.000	282.865	23419.71	0.0038	P	8.1
6	☐	500.000	513.781	45543.08	0.0069	P	2.0
7	☐	1000.000	983.674	88587.21	0.0132	P	1.2
8	☐			310.01	0.0000	P	7.0

$$y = 1.3385\text{E-}005 * x + 3.8946\text{E-}005$$

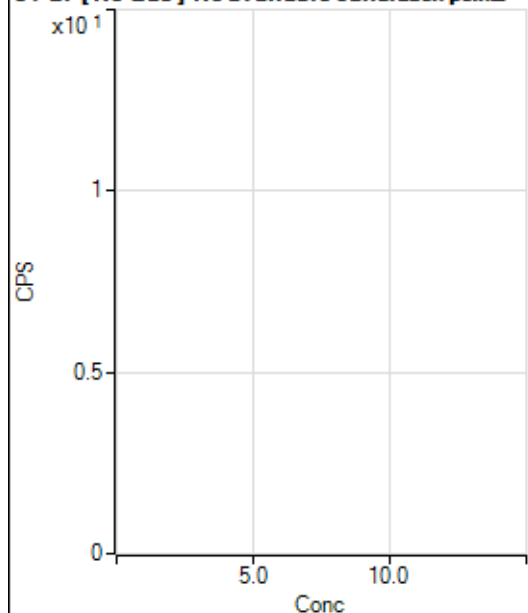
$$R = 0.9992$$

$$DL = 0.7624$$

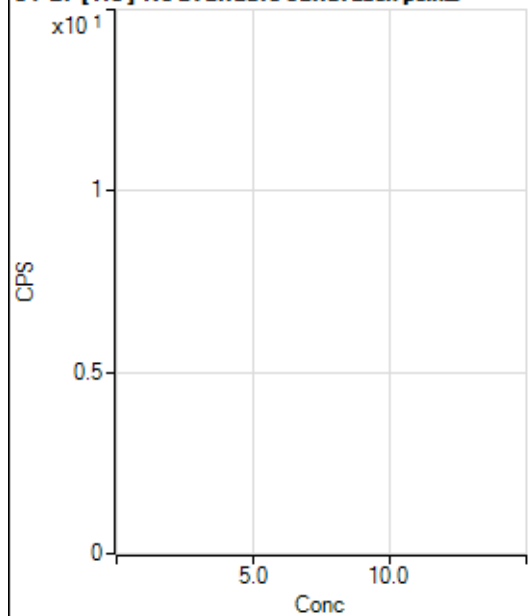
$$BEC = 2.91$$

Weight: <None>

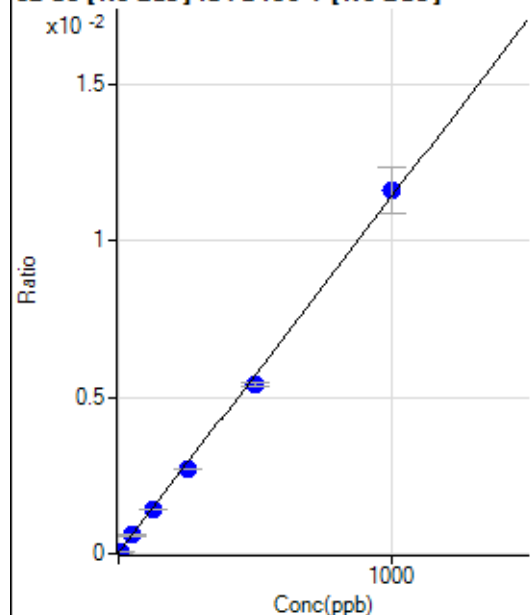
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17570.57		P	1.3
2	☐			17205.69		P	0.7
3	☐			17047.72		P	2.5
4	☐			16521.56		P	2.8
5	☐			16779.66		P	1.6
6	☐			17004.37		P	0.8
7	☐			18772.04		P	4.1
8	☐			17729.68		P	3.1

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			197.78		P	19.7
2	☐			132.22		P	12.9
3	☐			144.45		P	2.7
4	☐			132.23		P	16.4
5	☐			146.67		P	9.1
6	☐			193.34		P	10.8
7	☐			203.34		P	4.9
8	☐			141.11		P	12.1

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	892.73	0.0000	P	8.3
2	☐	5.000	4.808	2445.07	0.0001	P	4.9
3	☐	50.000	48.778	17084.28	0.0006	P	2.0
4	☐	125.000	120.034	40159.12	0.0014	P	0.6
5	☐	250.000	236.967	78764.31	0.0027	P	0.5
6	☐	500.000	474.574	154642.19	0.0054	P	2.1
7	☐	1000.000	1016.654	304196.88	0.0116	P	12.7
8	☐			1006.61	0.0000	P	4.9

$$y = 1.1384\text{E-}005 * x + 3.0501\text{E-}005$$

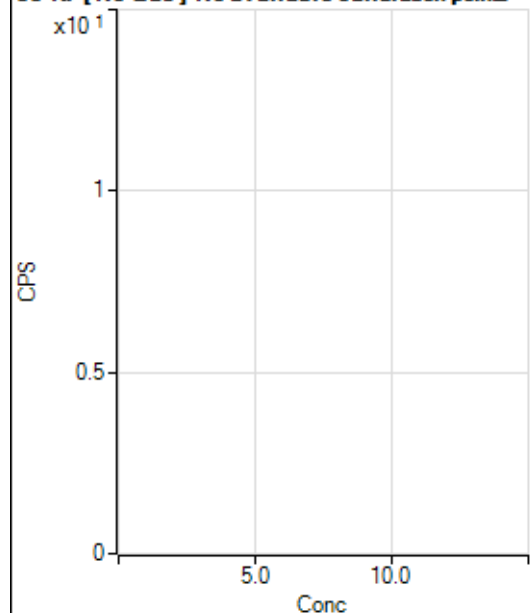
$$R = 0.9994$$

$$DL = 0.6706$$

$$BEC = 2.679$$

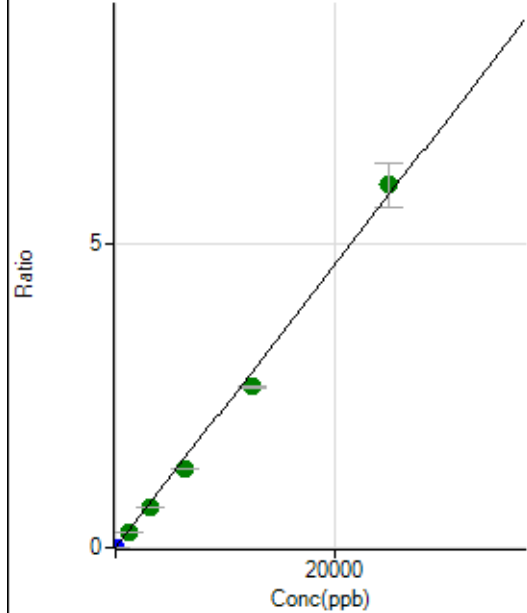
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			315.56		P	14.8
2	☐			292.23		P	0.7
3	☐			285.56		P	14.8
4	☐			278.89		P	2.5
5	☐			295.56		P	11.3
6	☐			273.34		P	8.5
7	☐			372.23		P	5.7
8	☐			314.45		P	5.2

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	533.35	0.0000	P	8.5
2	☐	1.000	0.903	6520.39	0.0002	P	1.9
3	☐	1250.000	1135.958	7665425.65	0.2628	A	1.1
4	☐	3125.000	2842.448	18904105.14	0.6576	A	0.7
5	☐	6250.000	5637.526	37655103.61	1.3043	A	0.5
6	☐	12500.000	11411.543	75154776.66	2.6401	A	1.5
7	☐	25000.000	25738.368	156141079.90	5.9547	A	12.3
8	☐			46504.61	0.0017	P	6.9

$$y = 2.3135E-004 * x + 1.8213E-005$$

$$R = 0.9983$$

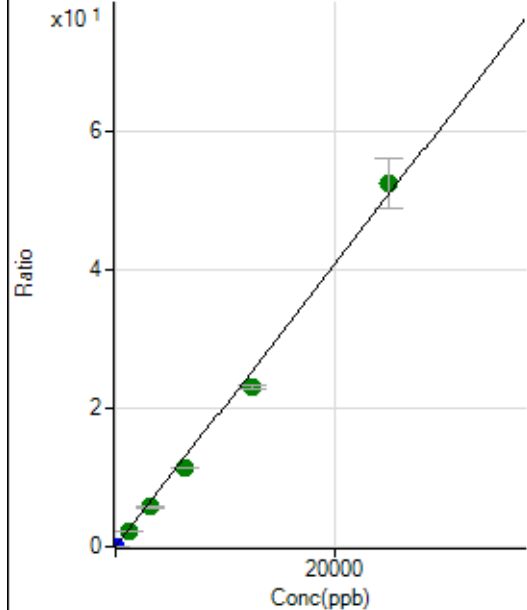
$$DL = 0.01997$$

$$BEC = 0.07873$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	296.67	0.0000	P	12.5
2	☐	1.000	0.874	51299.17	0.0018	P	2.3
3	☐	1250.000	1119.699	66412535.68	2.2772	A	1.8
4	☐	3125.000	2806.386	164066269.78	5.7074	A	1.0
5	☐	6250.000	5587.599	328067399.56	11.3637	A	0.3
6	☐	12500.000	11392.542	659441887.95	23.1694	A	2.4
7	☐	25000.000	25765.671	1372547890.6	52.4004	A	13.7
8	☐			403907.08	0.0149	P	6.5

$$y = 0.0020 * x + 1.0146E-005$$

$$R = 0.9982$$

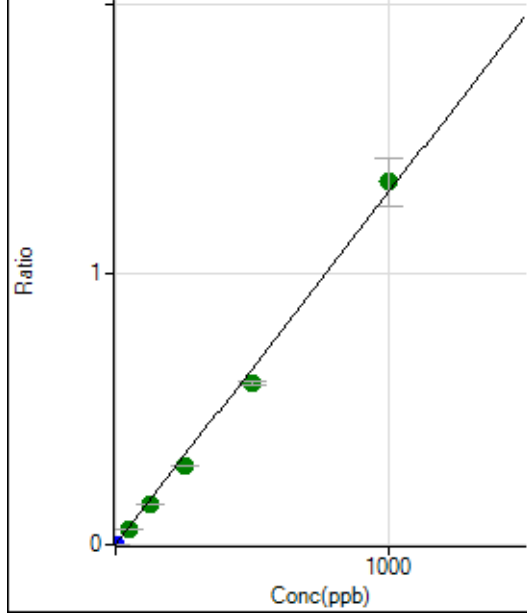
$$DL = 0.001865$$

$$BEC = 0.004989$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1341.19	0.0000	P	1.6
2	☐	1.000	0.818	31883.51	0.0011	P	3.2
3	☐	50.000	45.274	1721544.99	0.0590	A	1.2
4	☐	125.000	112.438	4212037.57	0.1465	A	0.7
5	☐	250.000	224.229	8434767.72	0.2922	A	1.0
6	☐	500.000	457.362	16959431.41	0.5959	A	2.4
7	☐	1000.000	1029.568	35155033.64	1.3413	A	12.9
8	☐			9832.28	0.0004	P	5.4

$$y = 0.0013 * x + 4.5806E-005$$

$$R = 0.9983$$

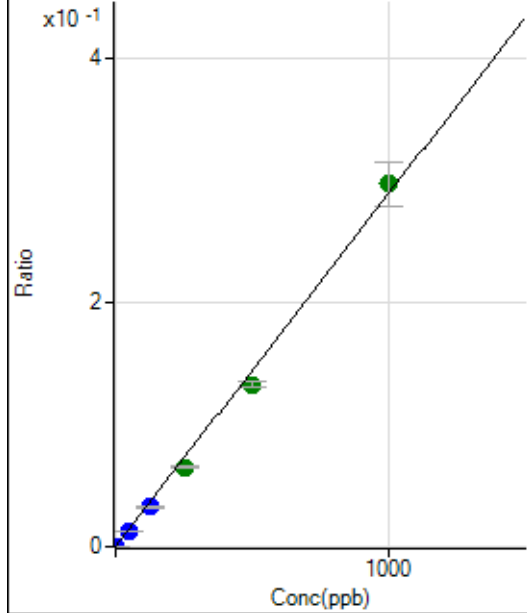
$$DL = 0.001695$$

$$BEC = 0.03516$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	243.34	0.0000	P	6.2
2	☐	1.000	0.835	7152.93	0.0002	P	1.9
3	☐	50.000	44.901	378002.01	0.0130	P	1.3
4	☐	125.000	112.130	930070.53	0.0324	P	1.0
5	☐	250.000	224.655	1871328.30	0.0648	A	2.1
6	☐	500.000	460.284	3779325.92	0.1328	A	2.4
7	☐	1000.000	1028.058	7775283.63	0.2966	A	12.5
8	☐			2150.18	0.0001	P	8.6

$$y = 2.8847E-004 * x + 8.3127E-006$$

$$R = 0.9985$$

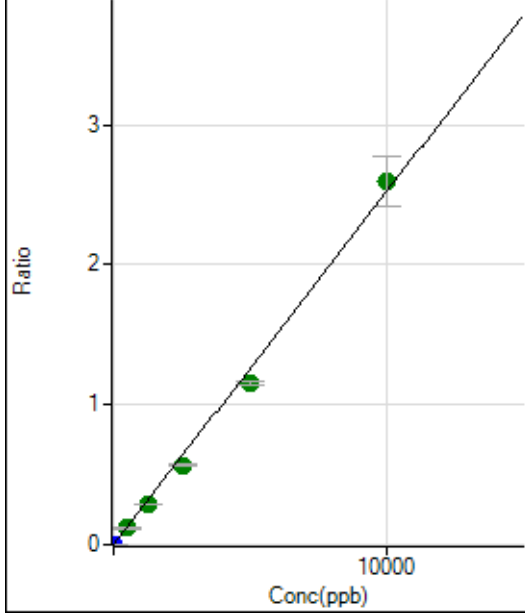
$$DL = 0.005401$$

$$BEC = 0.02882$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	518.90	0.0000	P	3.1
2	☐	5.000	5.102	37436.62	0.0013	P	2.8
3	☐	500.000	463.112	3407188.80	0.1168	A	1.6
4	☐	1250.000	1148.220	8325550.02	0.2896	A	1.2
5	☐	2500.000	2258.374	16445015.03	0.5696	A	1.4
6	☐	5000.000	4591.335	32961648.95	1.1581	A	2.3
7	☐	10000.000	10279.306	67913752.88	2.5927	A	13.6
8	☐			24060.92	0.0009	P	3.4

$$y = 2.5223\text{E-}004 * x + 1.7717\text{E-}005$$

$$R = 0.9985$$

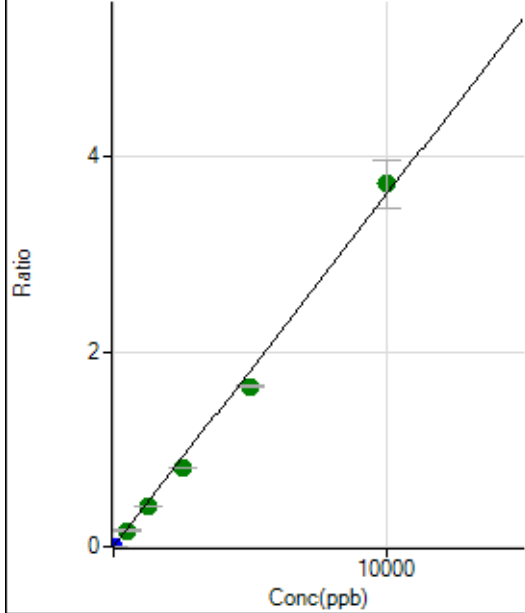
$$DL = 0.006441$$

$$BEC = 0.07024$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	82.22	0.0000	P	26.0
2	☐	5.000	4.355	45283.07	0.0016	P	1.6
3	☐	500.000	459.173	4842185.06	0.1660	A	2.3
4	☐	1250.000	1132.062	11766632.46	0.4093	A	0.6
5	☐	2500.000	2253.537	23523981.87	0.8148	A	0.8
6	☐	5000.000	4555.841	46887037.63	1.6473	A	2.0
7	☐	10000.000	10300.479	97585155.21	3.7244	A	13.3
8	☐			36347.33	0.0013	P	1.8

$$y = 3.6158\text{E-}004 * x + 2.8098\text{E-}006$$

$$R = 0.9982$$

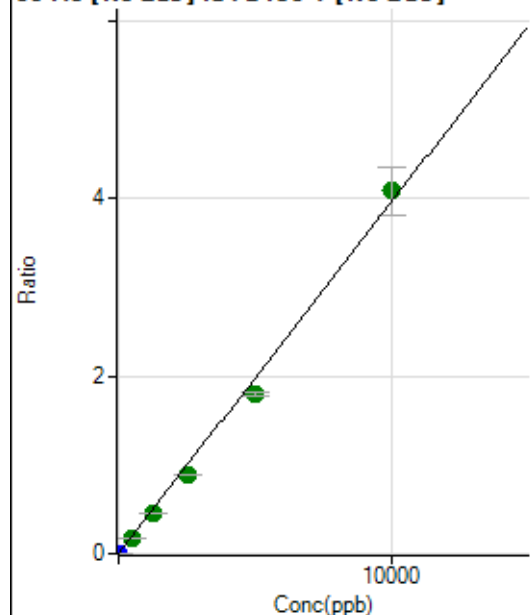
$$DL = 0.006065$$

$$BEC = 0.007771$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	180.01	0.0000	P	6.7
2	☐	5.000	4.421	50445.49	0.0018	P	3.1
3	☐	500.000	452.702	5231954.09	0.1794	A	1.2
4	☐	1250.000	1124.136	12804390.64	0.4454	A	0.3
5	☐	2500.000	2249.859	25737014.06	0.8915	A	0.6
6	☐	5000.000	4537.630	51179513.13	1.7980	A	1.5
7	☐	10000.000	10311.819	107073665.07	4.0859	A	13.1
8	☐			46666.63	0.0017	P	4.2

$$y = 3.9623\text{E-}004 * x + 6.1429\text{E-}006$$

$$R = 0.9981$$

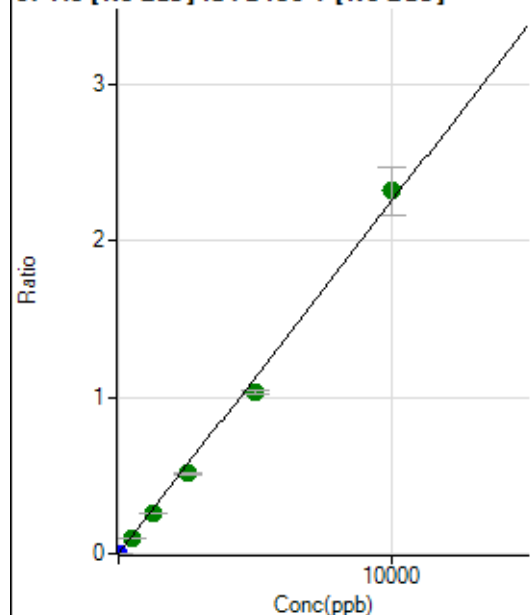
$$DL = 0.003134$$

$$BEC = 0.0155$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	75.56	0.0000	P	26.5
2	☐	5.000	4.351	28186.14	0.0010	P	4.1
3	☐	500.000	454.456	2984888.70	0.1023	A	1.4
4	☐	1250.000	1128.723	7307038.08	0.2542	A	0.9
5	☐	2500.000	2265.084	14726459.92	0.5101	A	0.3
6	☐	5000.000	4562.730	29244937.34	1.0275	A	2.3
7	☐	10000.000	10294.801	60760970.21	2.3184	A	12.9
8	☐			21715.06	0.0008	P	4.0

$$y = 2.2520\text{E-}004 * x + 2.5862\text{E-}006$$

$$R = 0.9983$$

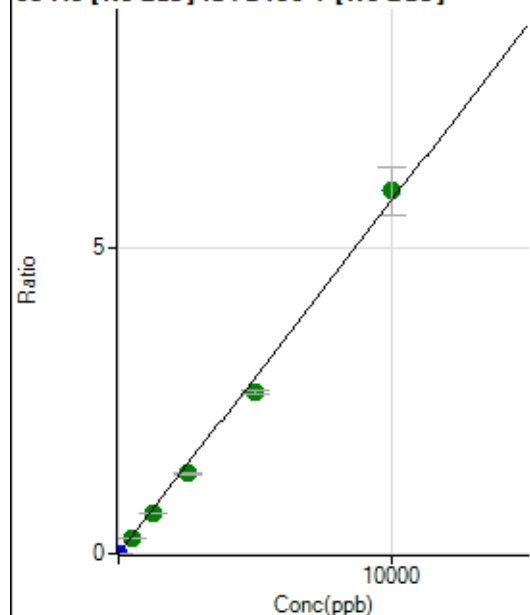
$$DL = 0.00914$$

$$BEC = 0.01148$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	135.56	0.0000	P	24.9
2	☐	5.000	4.385	72973.13	0.0025	P	2.4
3	☐	500.000	454.418	7670750.16	0.2630	A	1.7
4	☐	1250.000	1140.458	18974975.41	0.6601	A	0.8
5	☐	2500.000	2263.792	37826728.33	1.3103	A	0.9
6	☐	5000.000	4594.349	75684681.09	2.6591	A	2.2
7	☐	10000.000	10277.850	155894448.79	5.9487	A	13.1
8	☐			55322.25	0.0020	P	5.5

$$y = 5.7878\text{E-}004 * x + 4.6301\text{E-}006$$

$$R = 0.9985$$

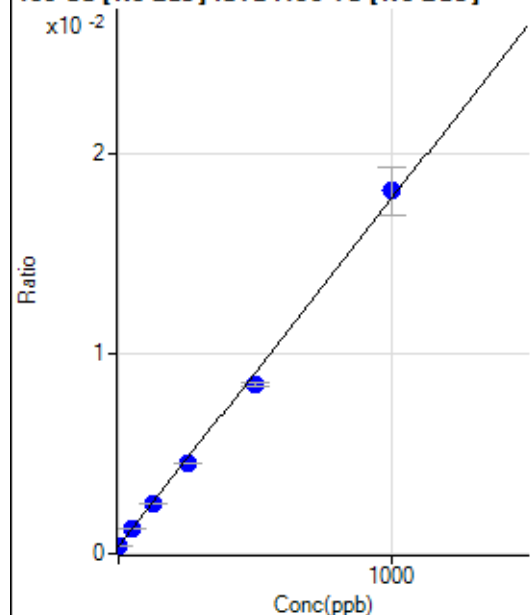
$$DL = 0.005981$$

$$BEC = 0.008$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	12437.65	0.0004	P	1.5
2	☐	1.000	0.020	12338.66	0.0004	P	0.8
3	☐	50.000	48.188	38923.18	0.0012	P	2.2
4	☐	125.000	119.362	77717.29	0.0025	P	0.9
5	☐	250.000	237.972	141364.34	0.0045	P	1.6
6	☐	500.000	463.445	266743.12	0.0084	P	2.5
7	☐	1000.000	1022.081	518500.64	0.0181	P	13.2
8	☐			11794.86	0.0004	P	1.8

$$y = 1.7342\text{E-}005 * x + 3.9590\text{E-}004$$

$$R = 0.9990$$

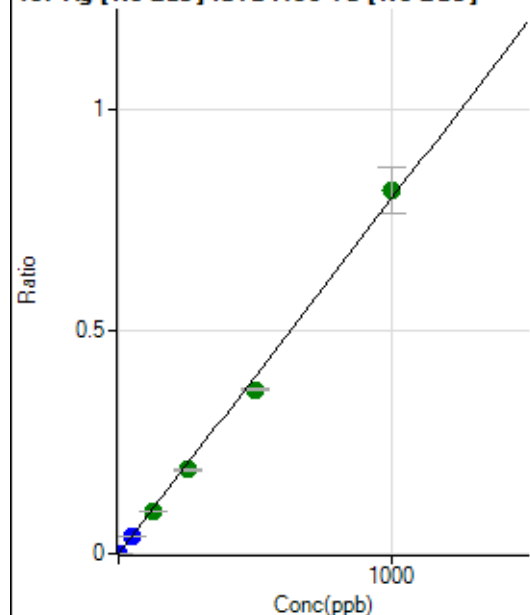
$$DL = 1.05$$

$$BEC = 22.83$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	133.34	0.0000	P	13.6
2	☐	1.000	0.890	22233.76	0.0007	P	2.6
3	☐	50.000	48.309	1218274.81	0.0386	P	2.8
4	☐	125.000	120.069	3019771.48	0.0958	A	1.8
5	☐	250.000	238.220	5941319.28	0.1901	A	2.4
6	☐	500.000	462.860	11683642.32	0.3693	A	2.0
7	☐	1000.000	1022.216	23347723.54	0.8157	A	12.8
8	☐			11127.68	0.0004	P	5.8

$$y = 7.9796\text{E-}004 * x + 4.2365\text{E-}006$$

$$R = 0.9989$$

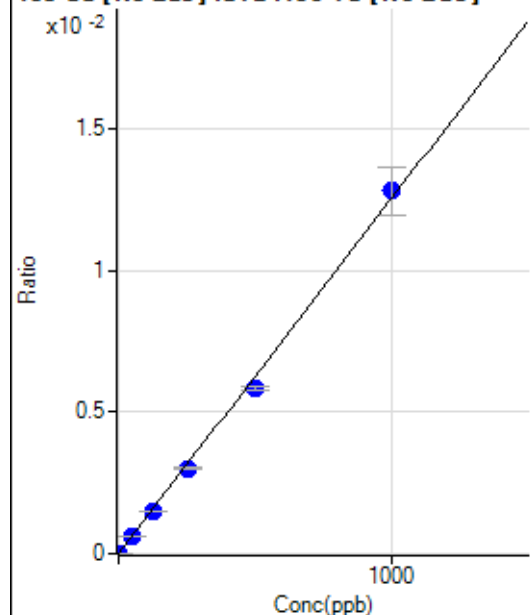
$$DL = 0.002161$$

$$BEC = 0.005309$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	25.56	0.0000	P	18.9
2	☐	1.000	0.956	398.90	0.0000	P	5.0
3	☐	50.000	49.047	19495.42	0.0006	P	1.7
4	☐	125.000	119.111	47170.91	0.0015	P	0.6
5	☐	250.000	238.659	93712.40	0.0030	P	1.9
6	☐	500.000	464.517	184548.63	0.0058	P	2.6
7	☐	1000.000	1021.360	366980.27	0.0128	P	13.4
8	☐			287.79	0.0000	P	11.6

$$y = 1.2559\text{E-}005 * x + 8.1249\text{E-}007$$

$$R = 0.9990$$

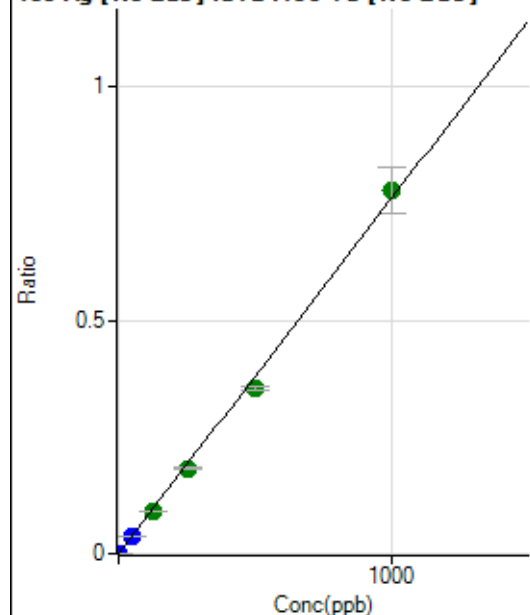
$$DL = 0.03661$$

$$BEC = 0.06469$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	56.67	0.0000	P	21.9
2	☐	1.000	0.900	21381.39	0.0007	P	2.4
3	☐	50.000	47.950	1153181.92	0.0365	P	2.9
4	☐	125.000	120.181	2882725.93	0.0915	A	0.5
5	☐	250.000	240.117	5712346.58	0.1827	A	0.7
6	☐	500.000	463.592	11160053.31	0.3528	A	2.4
7	☐	1000.000	1021.380	22251687.45	0.7773	A	12.6
8	☐			10451.65	0.0004	P	6.8

$$y = 7.6106\text{E-}004 * x + 1.8075\text{E-}006$$

$$R = 0.9990$$

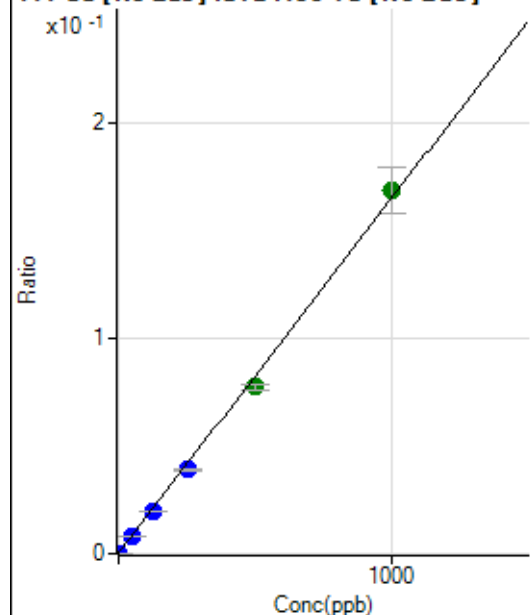
$$DL = 0.001561$$

$$BEC = 0.002375$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	8696.25	0.0003	P	1.5
2	☐	1.000	0.886	13149.77	0.0004	P	1.2
3	☐	50.000	47.612	256113.44	0.0081	P	2.4
4	☐	125.000	117.094	615445.97	0.0195	P	1.0
5	☐	250.000	234.670	1214618.26	0.0389	P	0.8
6	☐	500.000	467.935	2441953.57	0.0772	A	2.9
7	☐	1000.000	1020.973	4812359.81	0.1681	A	12.8
8	☐			10221.81	0.0004	P	1.5

$$y = 1.6441\text{E-}004 * x + 2.7681\text{E-}004$$

$$R = 0.9991$$

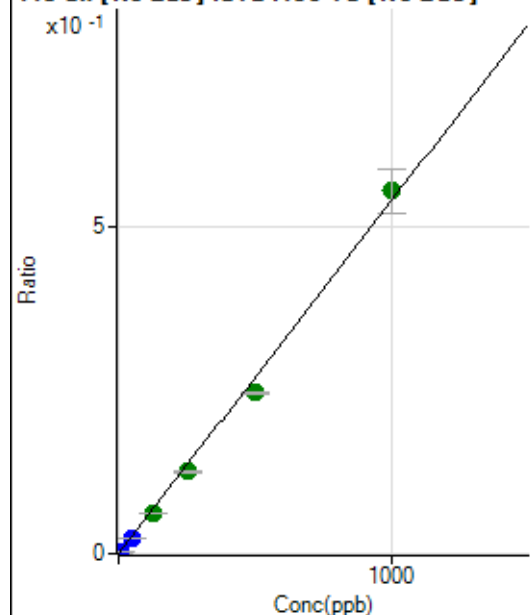
$$DL = 0.07714$$

$$BEC = 1.684$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2211.30	0.0001	P	4.7
2	☐	5.000	4.396	75865.99	0.0024	P	2.4
3	☐	50.000	44.919	766499.23	0.0243	P	2.9
4	☐	125.000	114.331	1942448.06	0.0616	A	0.5
5	☐	250.000	232.380	3913002.27	0.1252	A	1.7
6	☐	500.000	456.560	7779423.22	0.2459	A	1.5
7	☐	1000.000	1027.716	15845461.57	0.5535	A	12.4
8	☐			12107.42	0.0004	P	0.8

$$y = 5.3846\text{E-}004 * x + 7.0424\text{E-}005$$

$$R = 0.9985$$

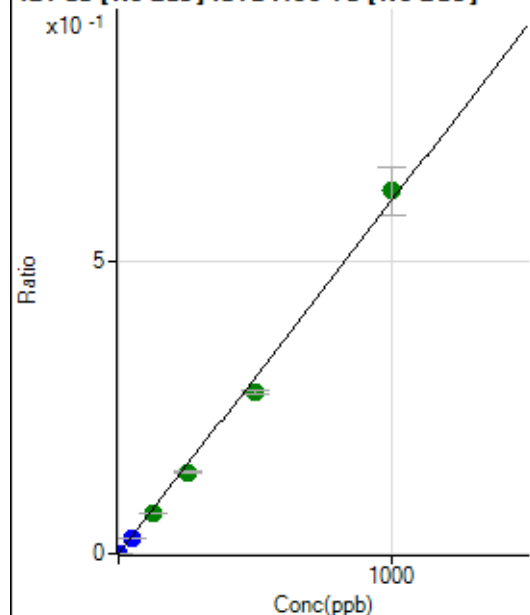
$$DL = 0.01837$$

$$BEC = 0.1308$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	78.89	0.0000	P	22.2
2	☐	2.000	1.723	32436.54	0.0010	P	2.8
3	☐	50.000	44.940	856940.32	0.0271	P	2.5
4	☐	125.000	114.078	2169364.58	0.0688	A	1.1
5	☐	250.000	230.737	4351571.64	0.1392	A	1.3
6	☐	500.000	456.218	8707126.47	0.2753	A	2.3
7	☐	1000.000	1028.326	17752675.85	0.6205	A	13.2
8	☐			13015.98	0.0005	P	6.1

$$y = 6.0337\text{E-}004 * x + 2.5048\text{E-}006$$

$$R = 0.9984$$

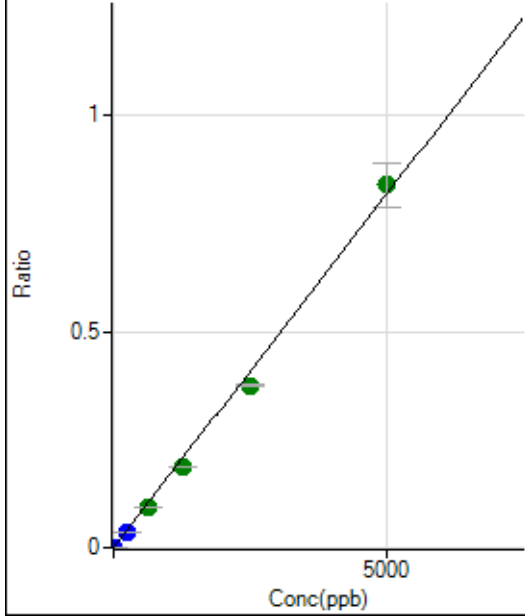
$$DL = 0.002762$$

$$BEC = 0.004151$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	33.33	0.0000	P	9.8
2	☐	10.000	8.464	43092.84	0.0014	P	3.5
3	☐	250.000	219.536	1134328.02	0.0359	P	2.4
4	☐	625.000	570.124	2937878.47	0.0932	A	0.4
5	☐	1250.000	1146.110	5857411.79	0.1874	A	0.6
6	☐	2500.000	2297.351	11881883.02	0.3756	A	2.0
7	☐	5000.000	5135.683	24043205.75	0.8397	A	12.3
8	☐			10426.13	0.0004	P	4.3

$$y = 1.6350\text{E-}004 * x + 1.0609\text{E-}006$$

$$R = 0.9986$$

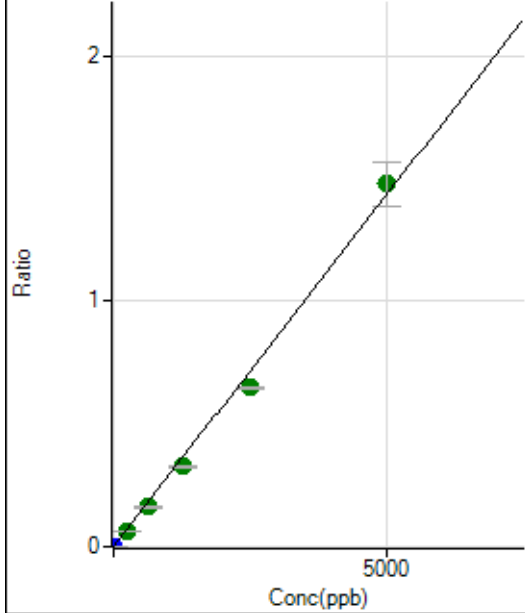
$$DL = 0.001905$$

$$BEC = 0.006489$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	61.11	0.0000	P	15.6
2	☐	10.000	8.367	74743.86	0.0024	P	2.7
3	☐	250.000	227.706	2063858.49	0.0653	A	2.6
4	☐	625.000	563.596	5094678.26	0.1617	A	1.2
5	☐	1250.000	1138.664	10208438.74	0.3266	A	1.1
6	☐	2500.000	2256.964	20479522.47	0.6473	A	1.3
7	☐	5000.000	5158.145	42368632.70	1.4795	A	12.1
8	☐			18305.24	0.0006	P	3.4

$$y = 2.8682\text{E-}004 * x + 1.9416\text{E-}006$$

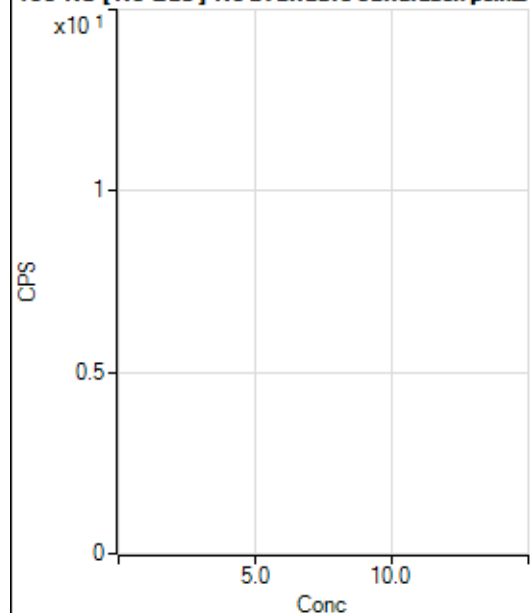
$$R = 0.9980$$

$$DL = 0.00317$$

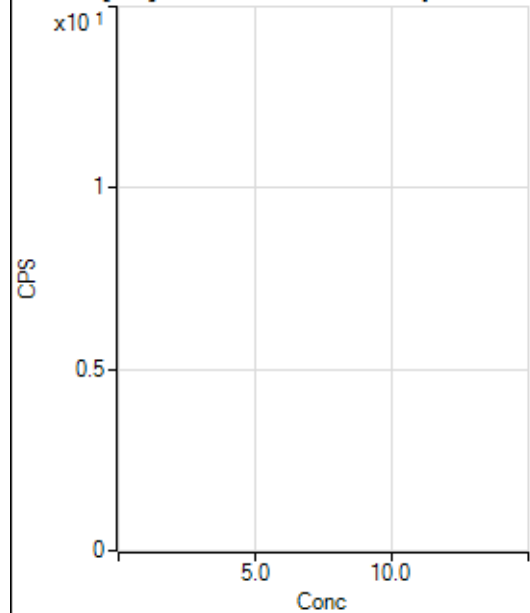
$$BEC = 0.006769$$

Weight: <None>

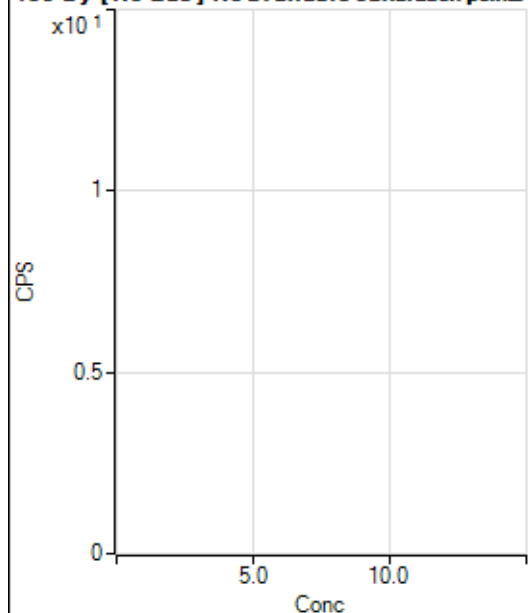
Min Conc: 0

150 Nd [No Gas] No available calibration points

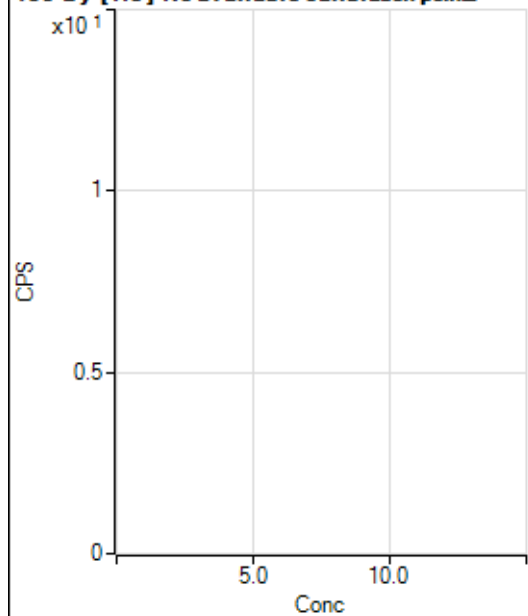
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.22		P	15.7
2	☐			17.78		P	10.8
3	☐			106.67		P	19.5
4	☐			283.34		P	1.2
5	☐			588.91		P	6.4
6	☐			1211.18		P	2.0
7	☐			2495.81		P	6.7
8	☐			90.00		P	13.4

150 Nd [He] No available calibration points

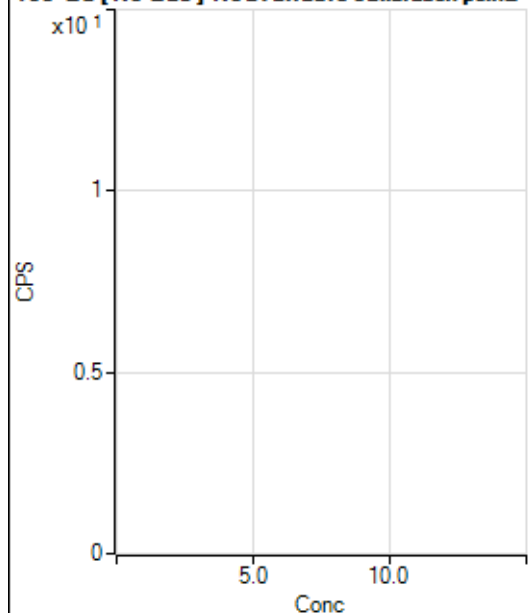
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.22		P	63.0
2	☐			8.89		P	114.
3	☐			44.44		P	17.3
4	☐			93.33		P	12.9
5	☐			164.45		P	11.2
6	☐			325.56		P	5.8
7	☐			623.35		P	8.4
8	☐			54.45		P	41.7

156 Dy [No Gas] No available calibration points

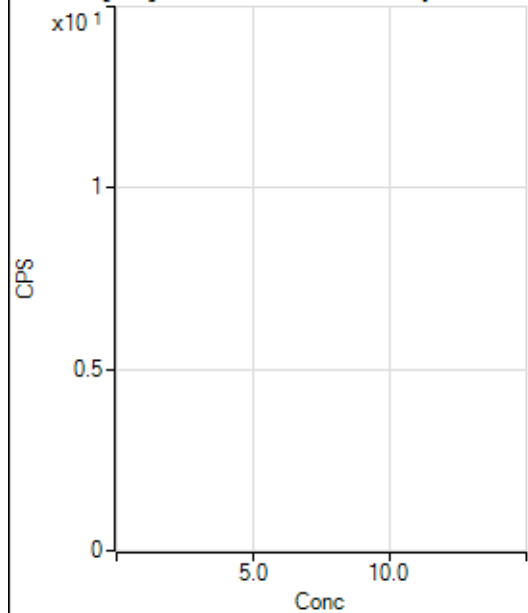
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	52.9
2	☐			27.78		P	38.6
3	☐			90.00		P	13.4
4	☐			206.67		P	18.3
5	☐			395.57		P	6.0
6	☐			718.92		P	12.1
7	☐			1573.44		P	5.7
8	☐			1947.93		P	6.1

156 Dy [He] No available calibration points

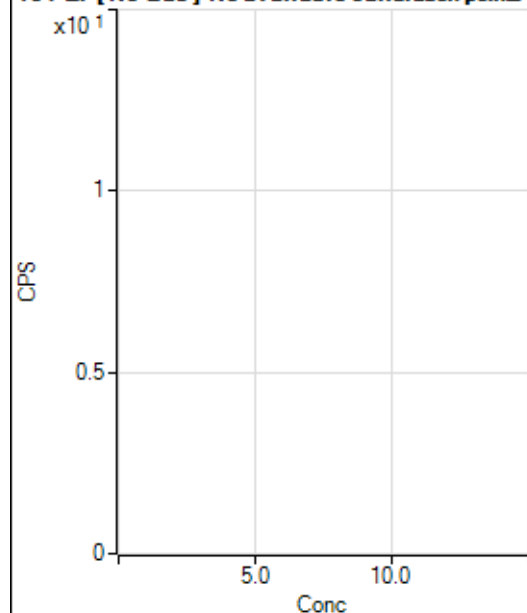
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	69.3
2	☐			15.56		P	65.5
3	☐			105.56		P	7.9
4	☐			181.11		P	15.3
5	☐			425.57		P	9.4
6	☐			724.47		P	9.7
7	☐			1487.87		P	4.1
8	☐			1264.52		P	1.4

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

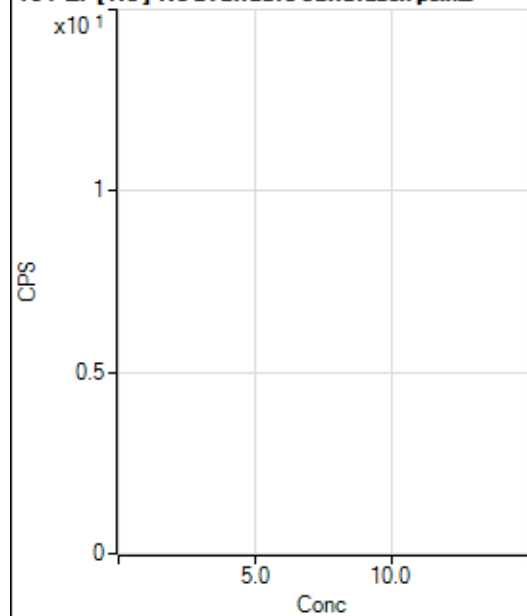
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			168.89		P	25.0
2	☐			210.00		P	13.6
3	☐			234.45		P	4.3
4	☐			315.56		P	11.3
5	☐			493.35		P	4.1
6	☐			817.81		P	4.1
7	☐			1458.98		P	6.0
8	☐			2131.29		P	1.7

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			893.37		P	1.0
2	☐			872.26		P	8.8
3	☐			867.81		P	5.4
4	☐			945.60		P	9.8
5	☐			985.60		P	8.9
6	☐			1236.74		P	13.5
7	☐			1656.78		P	3.7
8	☐			2141.30		P	3.0

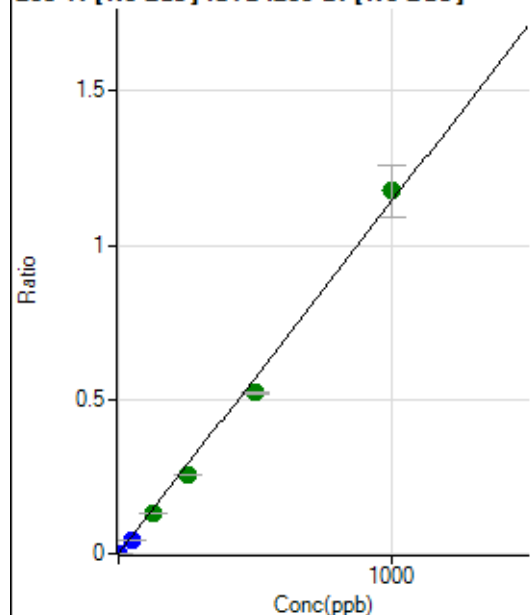
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			258.90		P	7.4
2	☐			285.56		P	4.7
3	☐			325.56		P	7.8
4	☐			358.90		P	3.9
5	☐			397.79		P	0.5
6	☐			547.80		P	5.5
7	☐			842.26		P	6.9
8	☐			381.12		P	14.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			128.89		P	30.3
2	☐			116.67		P	11.4
3	☐			148.89		P	25.9
4	☐			175.56		P	19.1
5	☐			201.11		P	4.8
6	☐			275.56		P	17.8
7	☐			451.12		P	3.4
8	☐			230.00		P	10.5

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	372.23	0.0000	P	11.6
2	☐	1.000	0.766	16955.06	0.0009	P	2.5
3	☐	50.000	39.773	881803.62	0.0454	P	2.0
4	☐	125.000	113.100	2464542.93	0.1291	A	0.0
5	☐	250.000	223.557	4897472.32	0.2552	A	0.6
6	☐	500.000	457.365	9690996.32	0.5221	A	1.7
7	☐	1000.000	1029.928	19577694.15	1.1756	A	14.3
8	☐			6399.36	0.0004	P	9.1

$$y = 0.0011 * x + 1.9514E-005$$

$$R = 0.9984$$

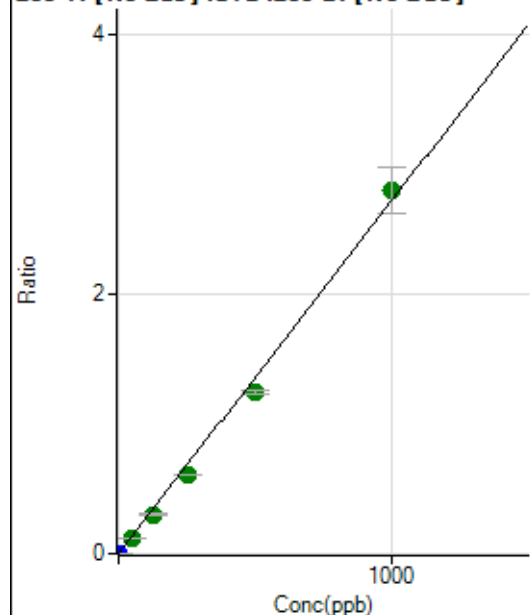
$$DL = 0.005948$$

$$BEC = 0.0171$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1024.50	0.0001	P	1.0
2	☐	1.000	0.776	41006.00	0.0022	P	0.4
3	☐	50.000	44.040	2321993.02	0.1196	A	1.1
4	☐	125.000	111.195	5761290.68	0.3018	A	1.6
5	☐	250.000	224.590	11699281.22	0.6096	A	0.6
6	☐	500.000	459.876	23169027.71	1.2482	A	2.1
7	☐	1000.000	1028.439	46543122.09	2.7913	A	12.8
8	☐			15131.90	0.0010	P	8.6

$$y = 0.0027 * x + 5.3660E-005$$

$$R = 0.9985$$

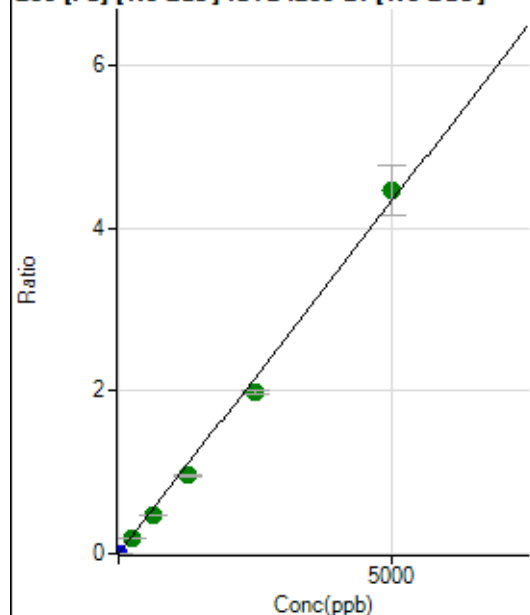
$$DL = 0.0005669$$

$$BEC = 0.01977$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	602.24	0.0000	P	10.8
2	☐	1.000	0.808	13891.62	0.0007	P	2.5
3	☐	250.000	220.976	3721055.05	0.1916	A	1.3
4	☐	625.000	551.351	9125178.55	0.4781	A	1.7
5	☐	1250.000	1106.679	18416306.11	0.9596	A	0.9
6	☐	2500.000	2295.529	36949311.67	1.9905	A	1.5
7	☐	5000.000	5148.723	74377718.34	4.4644	A	13.9
8	☐			19092.42	0.0012	P	6.0

$$y = 8.6709\text{E-}004 * x + 3.1533\text{E-}005$$

$$R = 0.9983$$

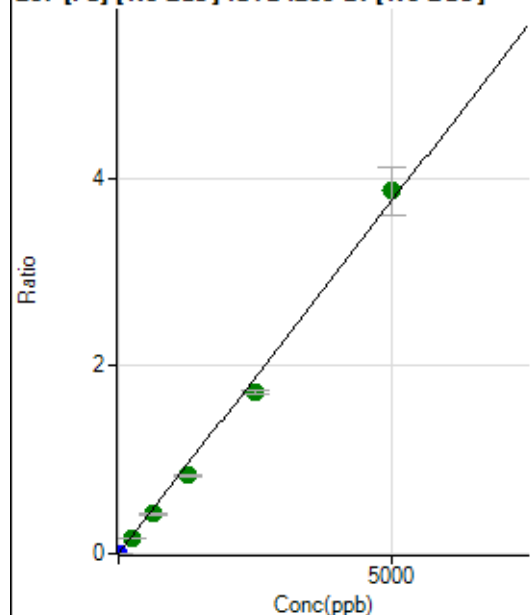
$$DL = 0.01183$$

$$BEC = 0.03637$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	505.57	0.0000	P	6.8
2	☐	1.000	0.813	12091.03	0.0006	P	2.9
3	☐	250.000	221.710	3234558.53	0.1666	A	2.2
4	☐	625.000	559.633	8025552.17	0.4205	A	1.8
5	☐	1250.000	1109.095	15992254.21	0.8333	A	1.9
6	☐	2500.000	2296.565	32026190.63	1.7255	A	2.4
7	☐	5000.000	5146.529	64434424.60	3.8667	A	13.5
8	☐			16128.56	0.0010	P	4.4

$$y = 7.5131\text{E-}004 * x + 2.6499\text{E-}005$$

$$R = 0.9984$$

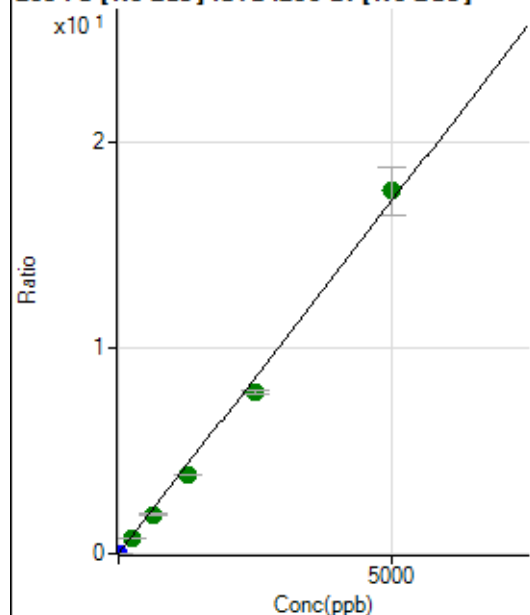
$$DL = 0.007192$$

$$BEC = 0.03527$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3380.29	0.0002	P	11.3
2	☐	1.000	0.813	56326.62	0.0030	P	2.3
3	☐	250.000	221.194	14743798.66	0.7594	A	1.7
4	☐	625.000	557.106	36499472.93	1.9123	A	1.3
5	☐	1250.000	1112.396	73272404.74	3.8181	A	0.9
6	☐	2500.000	2296.249	146294122.26	7.8813	A	1.9
7	☐	5000.000	5146.204	294374946.17	17.6629	A	13.4
8	☐			75401.55	0.0049	P	5.9

$$y = 0.0034 * x + 1.7708E-004$$

$$R = 0.9984$$

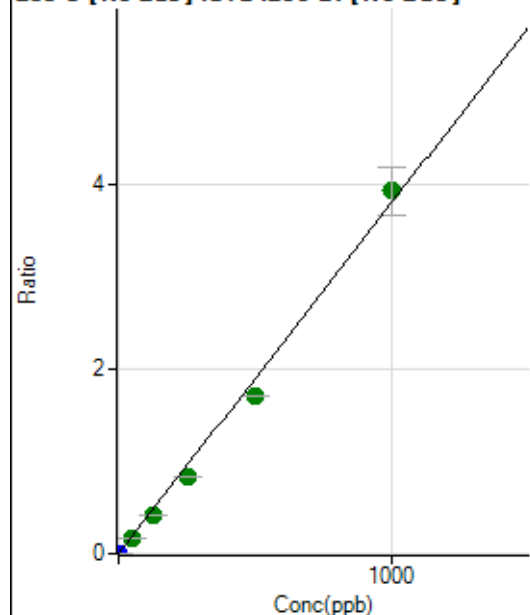
$$DL = 0.01742$$

$$BEC = 0.05159$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	23.33	0.0000	P	37.4
2	☐	1.000	0.723	52229.64	0.0028	P	1.6
3	☐	50.000	42.777	3160439.08	0.1628	A	1.6
4	☐	125.000	108.189	7857451.00	0.4116	A	0.7
5	☐	250.000	219.703	16040809.90	0.8359	A	0.8
6	☐	500.000	451.066	31861823.69	1.7162	A	0.5
7	☐	1000.000	1034.504	65615669.02	3.9359	A	13.1
8	☐			13953.00	0.0009	P	5.8

$$y = 0.0038 * x + 1.2196E-006$$

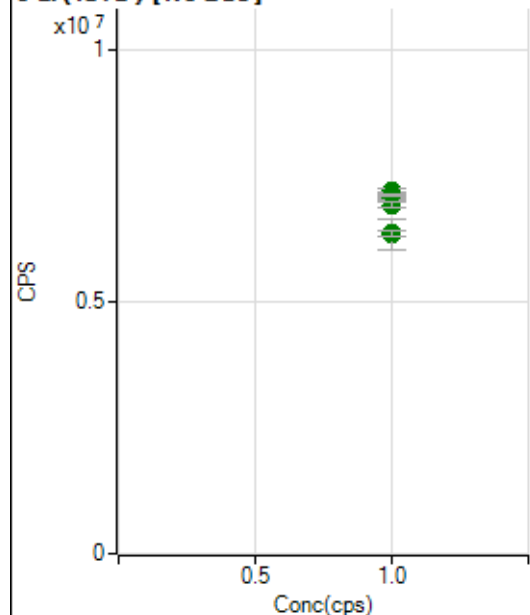
$$R = 0.9978$$

$$DL = 0.0003594$$

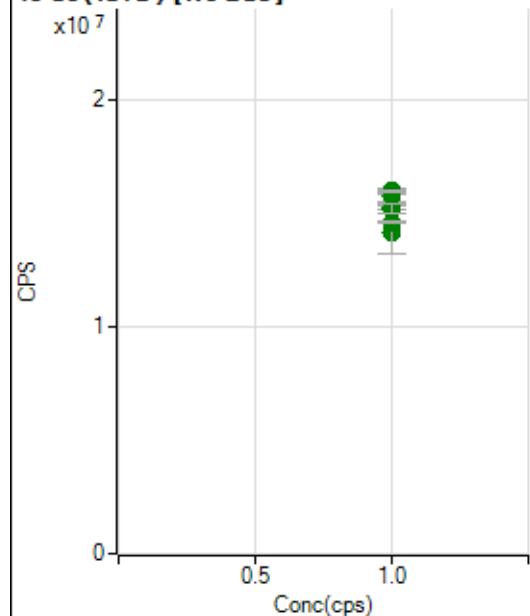
$$BEC = 0.0003206$$

Weight: <None>

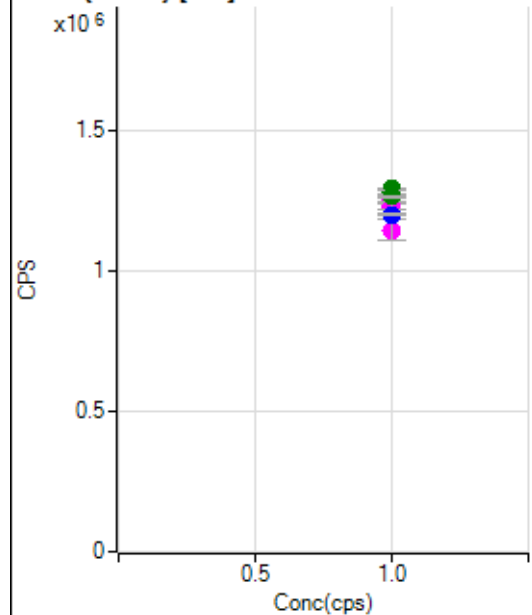
Min Conc: 0

6 Li (ISTD) [No Gas]

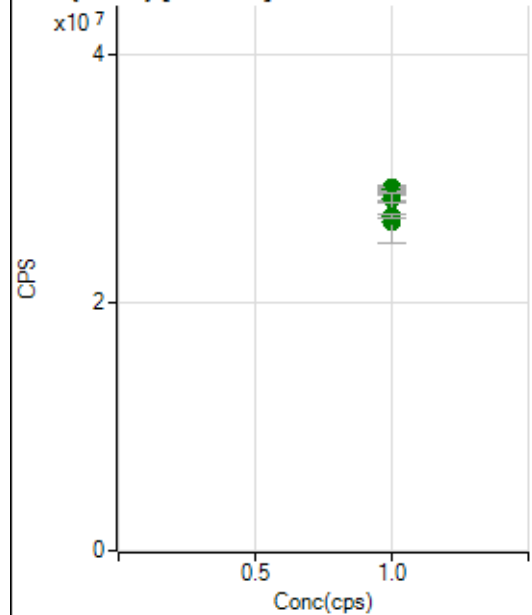
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7110231.77		A	1.6
2	☐	1.000		7076029.06		A	1.8
3	☐	1.000		7200204.34		A	1.8
4	☐	1.000		7128145.45		A	1.2
5	☐	1.000		7117688.64		A	0.8
6	☐	1.000		6920947.40		A	1.5
7	☐	1.000		6336395.32		A	9.2
8	☐	1.000		6362051.71		A	1.6

45 Sc (ISTD) [No Gas]

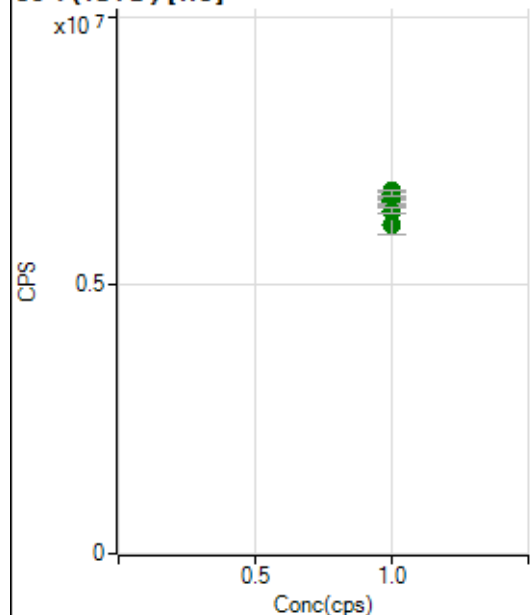
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		15968354.90		A	1.7
2	☐	1.000		15722236.16		A	2.6
3	☐	1.000		15980317.96		A	0.4
4	☐	1.000		15491705.88		A	0.6
5	☐	1.000		15264721.16		A	1.1
6	☐	1.000		15174200.05		A	2.9
7	☐	1.000		14138804.10		A	12.5
8	☐	1.000		14592366.87		A	0.7

45 Sc (ISTD) [He]

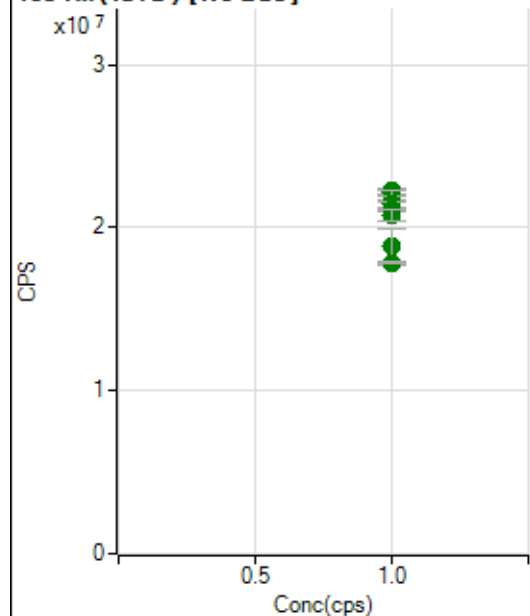
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1294100.43		A	0.7
2	☐	1.000		1282146.22		A	0.8
3	☐	1.000		1255581.18		M	2.7
4	☐	1.000		1228781.20		M	1.7
5	☐	1.000		1147056.90		M	6.5
6	☐	1.000		1233160.78		M	2.3
7	☐	1.000		1268018.53		A	0.5
8	☐	1.000		1202735.74		P	0.5

89 Y (ISTD) [No Gas]

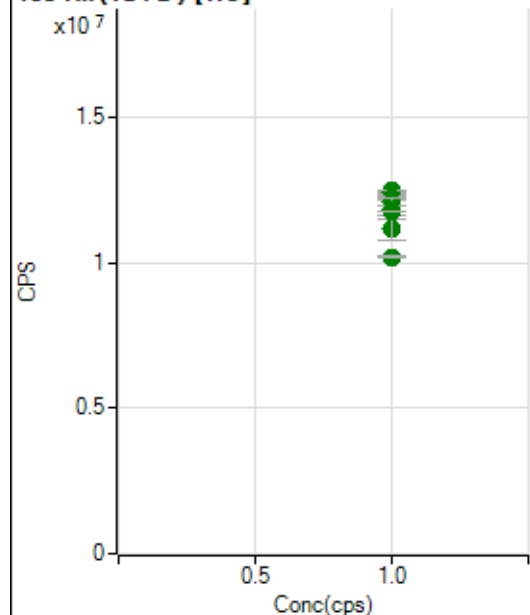
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		29280221.78		A	1.9
2	☐	1.000		28712451.79		A	2.9
3	☐	1.000		29167212.06		A	0.9
4	☐	1.000		28746337.63		A	0.4
5	☐	1.000		28870069.29		A	0.6
6	☐	1.000		28472214.85		A	2.4
7	☐	1.000		26490099.05		A	12.3
8	☐	1.000		27078317.10		A	1.2

89 Y(ISTD) [He]

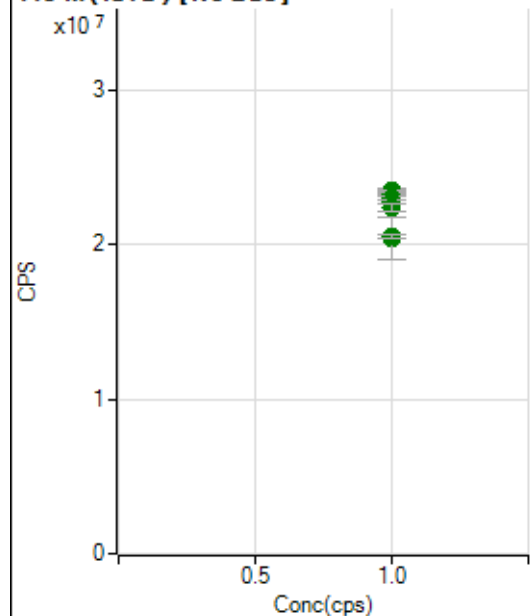
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6761368.58		A	0.6
2	☐	1.000		6630490.53		A	0.7
3	☐	1.000		6634479.21		A	1.2
4	☐	1.000		6555110.18		A	2.6
5	☐	1.000		6144343.24		A	6.5
6	☐	1.000		6587290.39		A	2.2
7	☐	1.000		6709625.87		A	1.8
8	☐	1.000		6388813.52		A	1.9

103 Rh(ISTD) [No Gas]

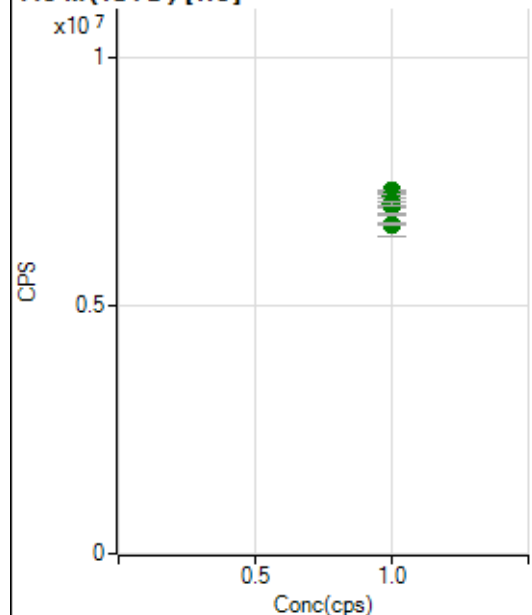
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		22243451.33		A	1.9
2	☐	1.000		21987153.56		A	2.9
3	☐	1.000		22128701.06		A	1.3
4	☐	1.000		21399957.46		A	1.4
5	☐	1.000		21064374.41		A	0.6
6	☐	1.000		20752804.83		A	3.2
7	☐	1.000		18823416.25		A	11.9
8	☐	1.000		17853586.96		A	0.2

103 Rh (ISTD) [He]

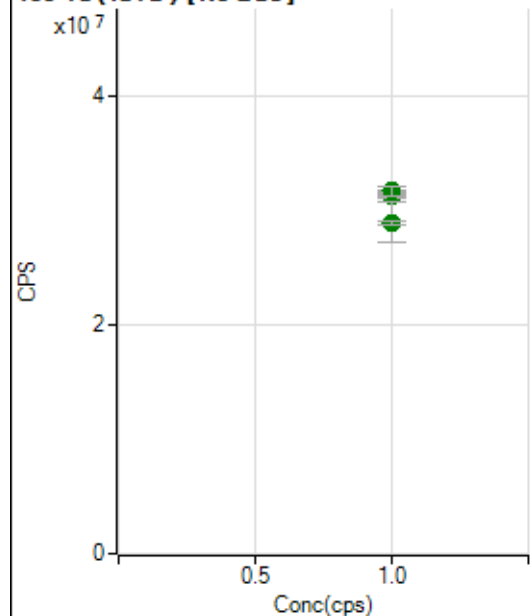
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		12483571.48		A	0.4
2	☐	1.000		12420304.12		A	1.0
3	☐	1.000		12261498.57		A	1.3
4	☐	1.000		12099698.71		A	2.6
5	☐	1.000		11169755.11		A	6.6
6	☐	1.000		11813551.35		A	2.5
7	☐	1.000		11792982.74		A	0.0
8	☐	1.000		10218494.43		A	0.2

115 In (ISTD) [No Gas]

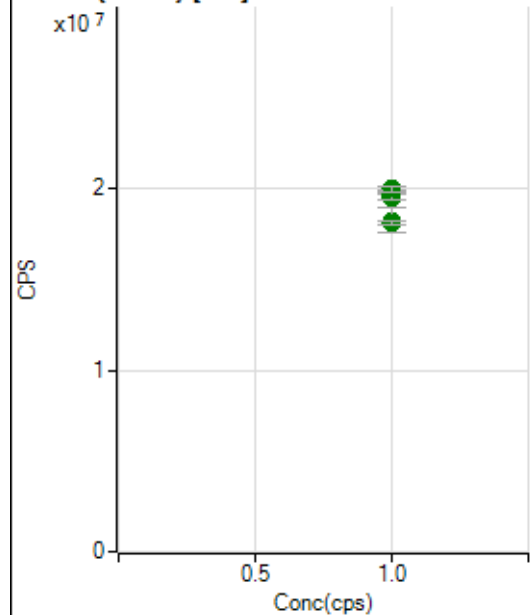
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		23457974.28		A	1.8
2	☐	1.000		23206270.86		A	3.1
3	☐	1.000		23417512.39		A	0.3
4	☐	1.000		23020824.72		A	0.8
5	☐	1.000		22759461.80		A	1.5
6	☐	1.000		22390283.17		A	2.2
7	☐	1.000		20362662.17		A	13.3
8	☐	1.000		20513137.42		A	1.2

115 In (ISTD) [He]

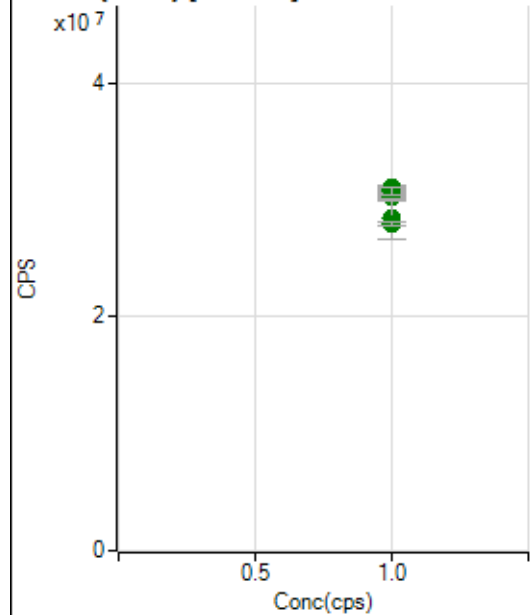
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7316938.75		A	0.8
2	☐	1.000		7323274.31		A	0.5
3	☐	1.000		7217463.43		A	0.7
4	☐	1.000		7087727.65		A	2.6
5	☐	1.000		6618759.21		A	6.6
6	☐	1.000		7026444.73		A	3.9
7	☐	1.000		7059714.91		A	0.8
8	☐	1.000		6640628.94		A	0.6

159 Tb (ISTD) [No Gas]

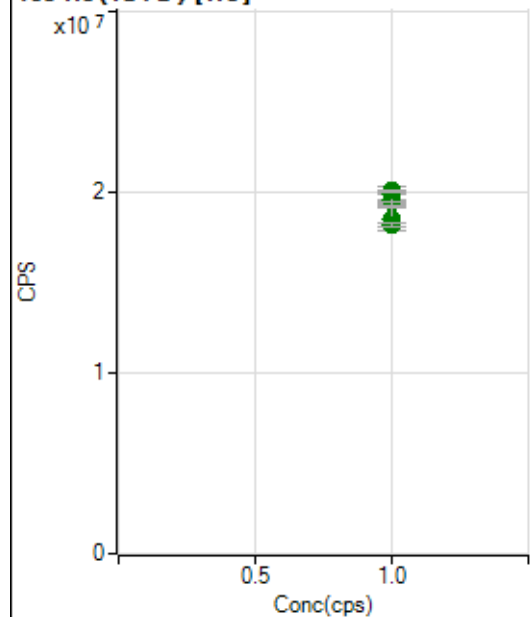
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		31417462.59		A	2.0
2	☐	1.000		31134761.76		A	2.5
3	☐	1.000		31612700.64		A	2.4
4	☐	1.000		31516674.81		A	0.2
5	☐	1.000		31258572.87		A	1.1
6	☐	1.000		31642774.81		A	2.4
7	☐	1.000		28913112.62		A	11.8
8	☐	1.000		28781216.52		A	1.2

159 Tb (ISTD) [He]

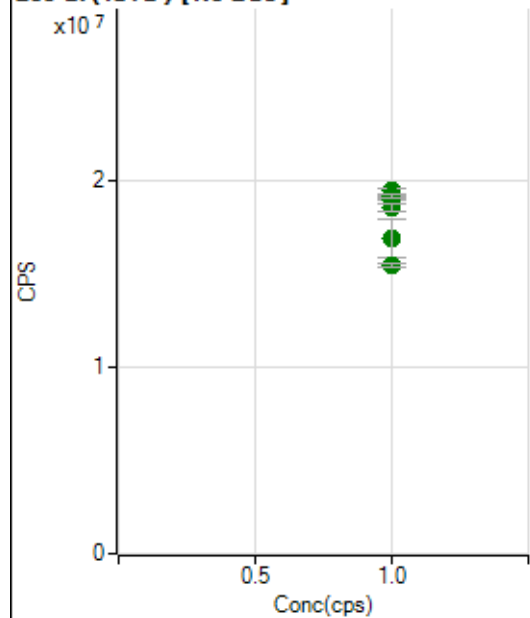
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		19736266.37		A	0.5
2	☐	1.000		19533838.04		A	1.6
3	☐	1.000		19586457.62		A	1.4
4	☐	1.000		19662228.87		A	3.1
5	☐	1.000		18282025.42		A	7.2
6	☐	1.000		19765314.43		A	4.0
7	☐	1.000		19997223.17		A	1.3
8	☐	1.000		18160519.45		A	1.2

165 Ho (ISTD) [No Gas]

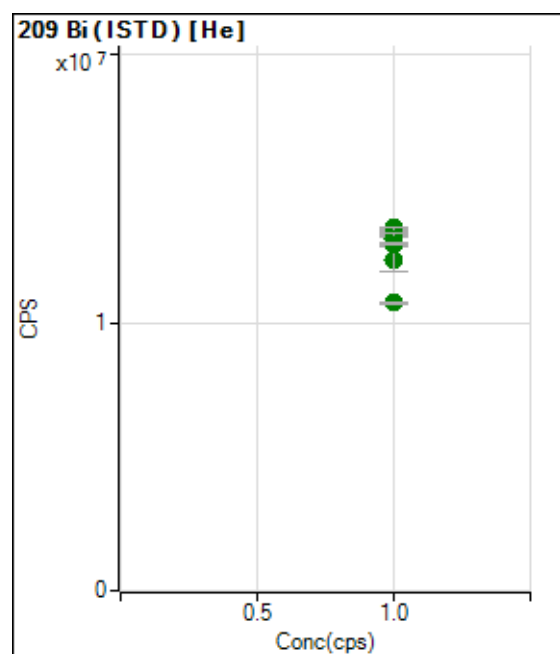
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		30608581.21		A	2.1
2	☐	1.000		30184658.72		A	1.9
3	☐	1.000		30911091.21		A	2.2
4	☐	1.000		30998929.26		A	0.8
5	☐	1.000		30839117.04		A	0.9
6	☐	1.000		30722769.26		A	1.7
7	☐	1.000		28385067.35		A	11.9
8	☐	1.000		27919821.80		A	1.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		19571276.37		A	0.2
2	☐	1.000		19473775.68		A	0.6
3	☐	1.000		19479678.60		A	1.5
4	☐	1.000		19607991.79		A	3.1
5	☐	1.000		18497394.17		A	6.8
6	☐	1.000		19909988.18		A	4.0
7	☐	1.000		20102708.73		A	0.4
8	☐	1.000		18211226.95		A	1.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		19091922.63		A	1.8
2	☐	1.000		18977865.97		A	2.1
3	☐	1.000		19420044.57		A	1.7
4	☐	1.000		19088176.38		A	0.9
5	☐	1.000		19190710.27		A	1.1
6	☐	1.000		18567127.22		A	2.1
7	☐	1.000		16850310.72		A	12.3
8	☐	1.000		15419069.49		A	1.7



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13539322.72		A	0.4
2	☐	1.000		13402671.19		A	0.4
3	☐	1.000		13380881.05		A	1.1
4	☐	1.000		13357460.64		A	2.6
5	☐	1.000		12364076.21		A	7.2
6	☐	1.000		13103353.00		A	3.7
7	☐	1.000		12923148.84		A	0.6
8	☐	1.000		10740774.77		A	0.3

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7021327 MS.b

Acq. Date-Time 2024-02-13 17:16:11

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		30856	308557.73			0.524	5.000
24		289535	2895347.35			1.029	5.000
25		38519	385189.76			0.304	5.000
26		45714	457144.81			0.598	5.000
59		246029	2460290.82			0.798	5.000
113		29483	294833.30			0.822	5.000
115		358301	3583011.59			1.235	5.000
206		80751	807509.22			0.927	5.000
207		75516	755157.60			0.656	5.000
208		189869	1898691.66			0.661	5.000
220		0	3.60			30.110	

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

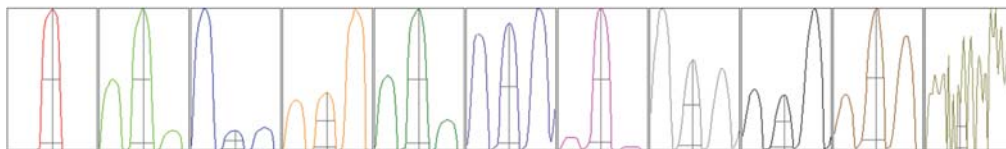
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	30798	30895	30923	31048	30615
24	285514	287367	290691	292605	291497
25	38427	38610	38472	38675	38411
26	45489	45865	45832	46019	45368
59	245833	246887	248676	245413	243338
113	29554	29447	29612	29718	29087
115	358864	359425	359946	362485	350786
206	81144	80314	81339	81315	79642
207	75958	75003	75672	75971	74975
208	189034	191169	189434	191220	188489

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	54069.89	9.05	8.90 - 9.10	
24	482882.36	24.00	23.90 - 24.10	
25	65140.31	25.00	24.90 - 25.10	
26	75897.13	26.00	25.90 - 26.10	
59	410145.16	59.00	58.90 - 59.10	
113	54400.34	112.95	112.90 - 113.10	
115	658848.42	114.95	114.90 - 115.10	
206	149426.82	205.95	205.90 - 206.10	
207	135292.71	206.95	206.90 - 207.10	
208	343409.19	207.95	207.90 - 208.10	
220	0.25	219.70	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.733	0.900	
24	0.63	0.785	0.900	
25	0.62	0.743	0.900	
26	0.63	0.742	0.900	
59	0.63	0.781	0.900	
113	0.55	0.736	0.900	
115	0.56	0.751	0.900	
206	0.55	0.784	0.900	
207	0.55	0.771	0.900	
208	0.57	0.787	0.900	
220	0.32	0.347		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode ---

Nebulizer Gas 0.82 L/min

Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.4 V	Deflect	14.0 V
Extract 2	-145.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-80 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	131	Axis Gain	0.9970	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.14		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.8 mm
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EM

Discriminator	4.7 mV	Analog HV	2308 V	Pulse HV	1360 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		73969	739686.50			2.240	
89		94997	949965.80			3.234	
205		80548	805478.08			2.965	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	74629	73727	71428	74086	75974
89	96614	94956	90429	94278	98705
205	80526	84504	78084	79886	79738

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.4 V	Deflect	2.4 V
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US EPA Tune Check Report

Extract 2	-155.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-80 V	Cell Exit	-60 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	190 V		
QP Parameters					
Mass Gain	131	Axis Gain	0.9970	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.14		
Hardware Settings					
Torch					
Torch H	-0.4 mm	Torch V	0.8 mm		
EM					
Discriminator	4.7 mV	Analog HV	2308 V	Pulse HV	1360 V