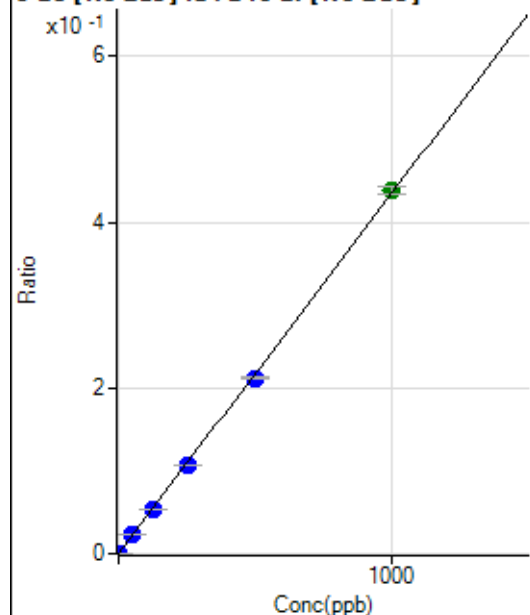


Calibration for 005CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8042523-MS.b\
 Analysis File: P8042523-MS.batch.bin
 DA Date-Time: 2023-04-25 18:18:52
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2023-04-25 14:54:38
2	005CALS.d	S02	2023-04-25 15:00:48
3	007CALS.d	S03	2023-04-25 15:06:58
4	008CALS.d	S04	2023-04-25 15:10:00
5	009CALS.d	S05	2023-04-25 15:12:58
6	010CALS.d	S06	2023-04-25 15:15:59
7	011CALS.d	S07	2023-04-25 15:18:57
8	012CALS.d	S08	2023-04-25 15:21:58

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	118.74	0.0000	P	10.9
2	☐	1.000	1.087	1904.89	0.0005	P	2.2
3	☐	50.000	50.993	85416.80	0.0222	P	1.2
4	☐	125.000	123.810	209342.09	0.0538	P	2.5
5	☐	250.000	245.089	410052.79	0.1065	P	1.4
6	☐	500.000	487.159	811359.70	0.2116	P	1.3
7	☐	1000.000	1007.747	1610556.80	0.4376	A	2.2
8	☐			759.09	0.0002	P	9.3

$$y = 4.3423\text{E-}004 * x + 3.1399\text{E-}005$$

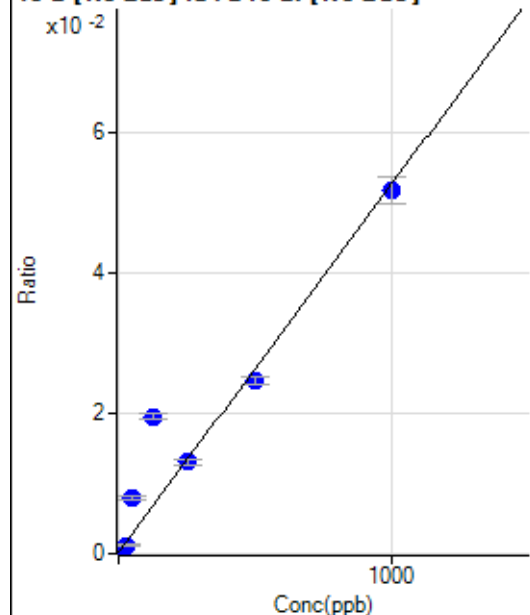
$$R = 0.9999$$

$$DL = 0.02354$$

$$BEC = 0.07231$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	622.56	0.0002	P	4.3
2	☐	25.000	20.252	4646.49	0.0012	P	3.8
3	☐	50.000	150.328	31035.90	0.0081	P	7.0
4	☐	125.000	368.846	76031.45	0.0195	P	4.0
5	☐	250.000	245.729	50314.96	0.0131	P	4.9
6	☐	500.000	467.009	94632.31	0.0247	P	5.2
7	☐	1000.000	982.185	190213.11	0.0517	P	7.4
8	☐			14561.71	0.0041	P	11.2

$$y = 5.2497\text{E-}005 * x + 1.6454\text{E-}004$$

$$R = 0.9619$$

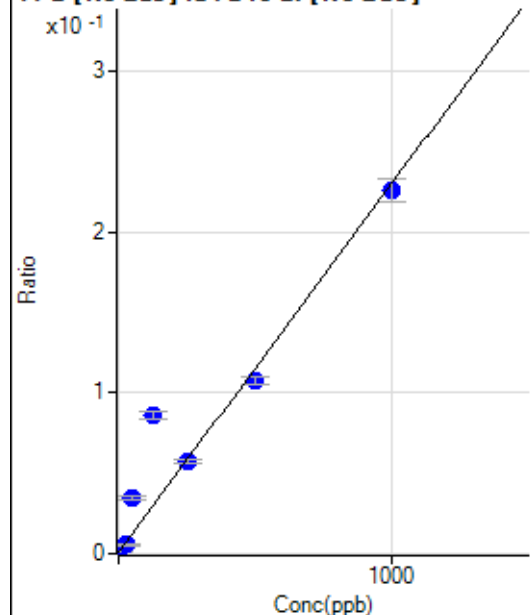
$$DL = 0.4061$$

$$BEC = 3.134$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2692.39	0.0007	P	1.7
2	☐	25.000	20.993	20937.42	0.0055	P	5.7
3	☐	50.000	149.951	135356.63	0.0351	P	7.0
4	☐	125.000	372.165	335400.97	0.0861	P	4.7
5	☐	250.000	246.747	220951.05	0.0574	P	4.9
6	☐	500.000	467.967	414659.79	0.1081	P	4.8
7	☐	1000.000	981.036	830935.61	0.2259	P	6.4
8	☐			63645.50	0.0180	P	8.8

$$y = 2.2957\text{E-}004 * x + 7.1174\text{E-}004$$

$$R = 0.9612$$

$$DL = 0.1627$$

$$BEC = 3.1$$

Weight: <None>

Min Conc: 0

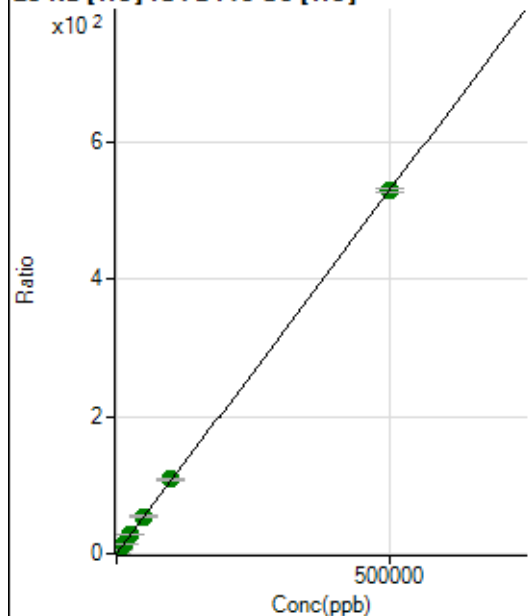
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			4213320.49		A	0.9
2	☐			4219947.19		A	0.7
3	☐			4374221.88		A	2.1
4	☐			5287468.22		A	2.7
5	☐			4730888.30		A	1.8
6	☐			5034370.08		A	2.7
7	☐			5990147.83		A	4.6
8	☐			4405568.72		A	2.3

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47048.09		P	2.0
2	☐			46858.65		P	1.9
3	☐			50442.39		P	0.6
4	☐			61392.25		P	0.7
5	☐			54214.52		P	1.1
6	☐			57869.96		P	0.9
7	☐			72227.50		P	1.8
8	☐			54816.53		P	1.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	31918.84	0.1693	P	1.0
2	☐	500.000	503.852	131145.20	0.7033	P	1.5
3	☐	5000.000	5451.292	1098988.59	5.9470	A	1.5
4	☐	12500.000	13758.887	2696420.63	14.7521	A	1.7
5	☐	25000.000	25828.241	5097201.89	27.5442	A	2.5
6	☐	50000.000	51368.165	10091863.07	54.6135	A	2.9
7	☐	100000.00	102152.05	20264065.21	108.4384	A	2.1
8	☐	500000.00	499355.37	97445598.01	529.4273	A	0.9

$$y = 0.0011 * x + 0.1693$$

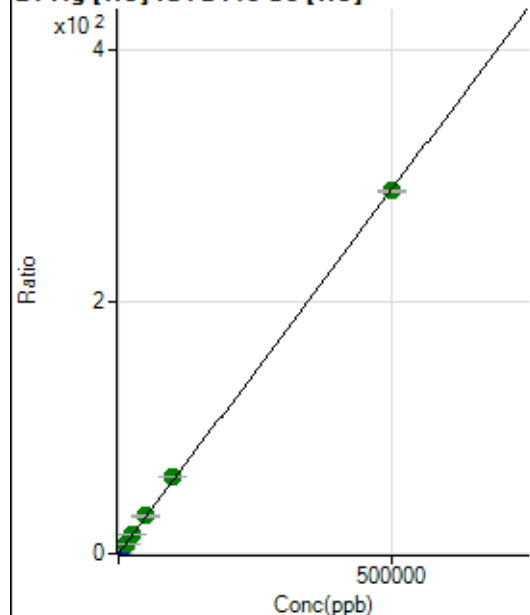
$$R = 1.0000$$

$$DL = 4.846$$

$$BEC = 159.7$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	363.90	0.0019	P	17.0
2	☐	500.000	508.223	55222.10	0.2961	P	1.2
3	☐	5000.000	5396.825	577719.04	3.1262	P	1.8
4	☐	12500.000	13967.006	1478584.39	8.0875	A	1.3
5	☐	25000.000	26963.679	2889052.11	15.6113	A	5.0
6	☐	50000.000	52473.345	5613108.68	30.3790	A	4.2
7	☐	100000.00	105736.96	11438397.39	61.2135	A	1.9
8	☐	500000.00	498466.43	53112800.84	288.5662	A	0.8

$$y = 5.7890\text{E-}004 * x + 0.0019$$

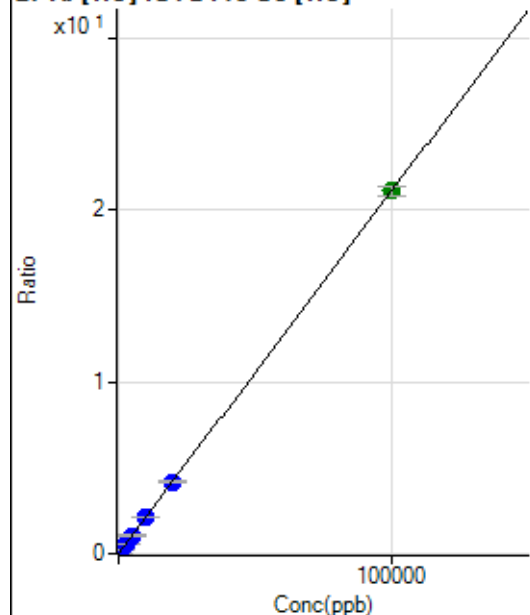
$$R = 0.9999$$

$$DL = 1.702$$

$$BEC = 3.334$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	76.24	0.0004	P	14.3
2	☐	20.000	20.916	899.50	0.0048	P	7.4
3	☐	1000.000	1063.722	41581.22	0.2250	P	0.8
4	☐	2500.000	2638.919	101945.76	0.5576	P	0.9
5	☐	5000.000	5033.192	196746.18	1.0632	P	3.5
6	☐	10000.000	9936.858	387761.23	2.0987	P	2.4
7	☐	20000.000	19723.382	778279.32	4.1652	P	2.0
8	☐	100000.00	100055.86	3889309.18	21.1285	A	3.0

$$y = 2.1116\text{E-}004 * x + 4.0475\text{E-}004$$

$$R = 1.0000$$

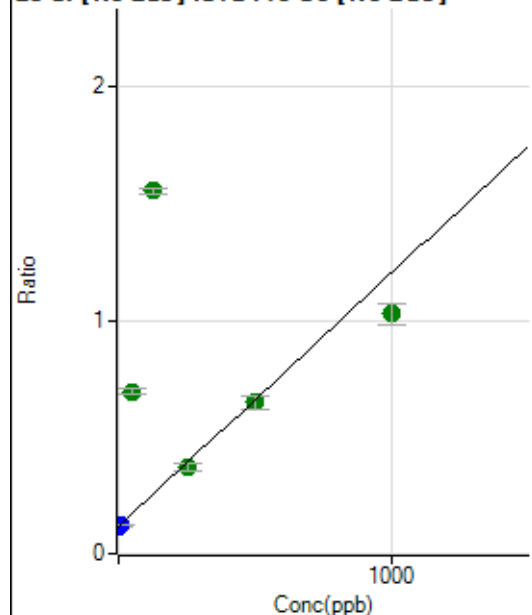
$$DL = 0.8195$$

$$BEC = 1.917$$

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	707771.46	0.1177	P	1.3
2	☐	10.000	6.500	758275.62	0.1248	P	1.3
3	☐	50.000	532.117	4326993.37	0.6963	A	2.6
4	☐	125.000	1322.322	9660143.36	1.5555	A	1.9
5	☐	250.000	232.792	2296292.26	0.3708	A	9.7
6	☐	500.000	489.112	4036640.19	0.6495	A	9.3
7	☐	1000.000	836.010	6368502.70	1.0267	A	8.7
8	☐			1715389.60	0.2885	A	5.4

$$y = 0.0011 * x + 0.1177$$

$$R = 0.3715$$

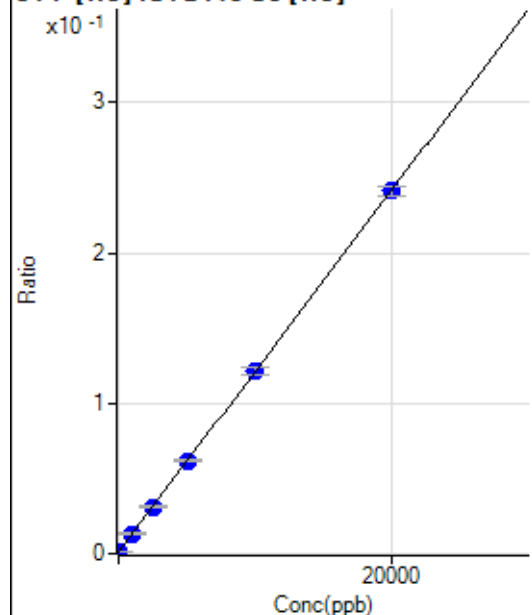
$$DL = 4.266$$

$$BEC = 108.3$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-17.738	163.90	0.0009	P	14.6
2	☐	0.000	17.738	241.68	0.0013	P	11.9
3	☐	1000.000	1024.534	2478.05	0.0134	P	7.1
4	☐	2500.000	2506.842	5706.82	0.0312	P	2.9
5	☐	5000.000	5045.893	11427.00	0.0618	P	1.8
6	☐	10000.000	10035.640	22493.01	0.1217	P	4.1
7	☐	20000.000	19968.625	45059.53	0.2412	P	2.4
8	☐			155.56	0.0008	P	24.2

$$y = 1.2023E-005 * x + 0.0011$$

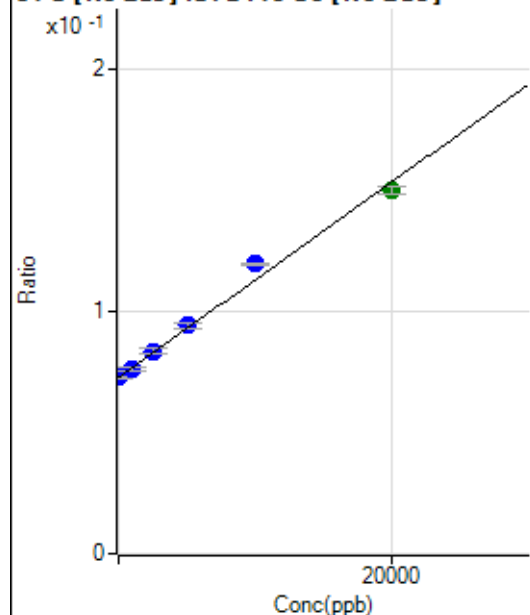
$$R = 1.0000$$

$$DL = 35.09$$

$$BEC = 90.03$$

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	29.999	439171.30	0.0730	P	1.5
2	☐	0.000	-29.999	442383.48	0.0728	P	1.3
3	☐	1000.000	867.750	474838.46	0.0764	P	2.3
4	☐	2500.000	2660.993	519517.81	0.0837	P	2.6
5	☐	5000.000	5283.539	583925.43	0.0943	P	2.3
6	☐	10000.000	11657.007	745251.18	0.1200	P	0.7
7	☐	20000.000	19087.100	931190.72	0.1500	A	2.1
8	☐			401995.60	0.0677	P	1.1

$$y = 4.0386E-006 * x + 0.0729$$

$$R = 0.9945$$

$$DL = 757.5$$

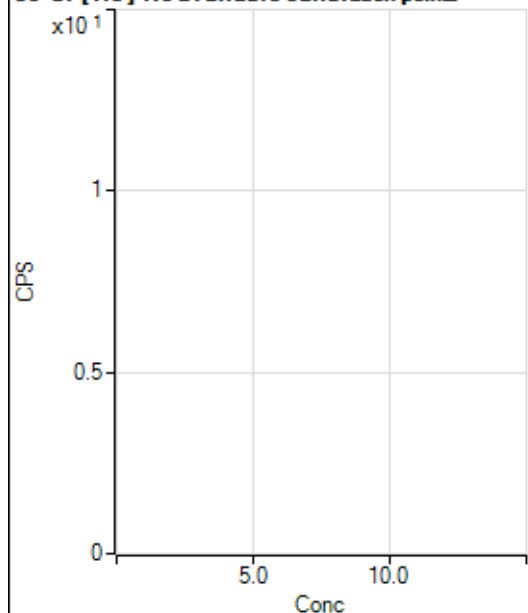
$$BEC = 1.806E+04$$

Weight: <None>

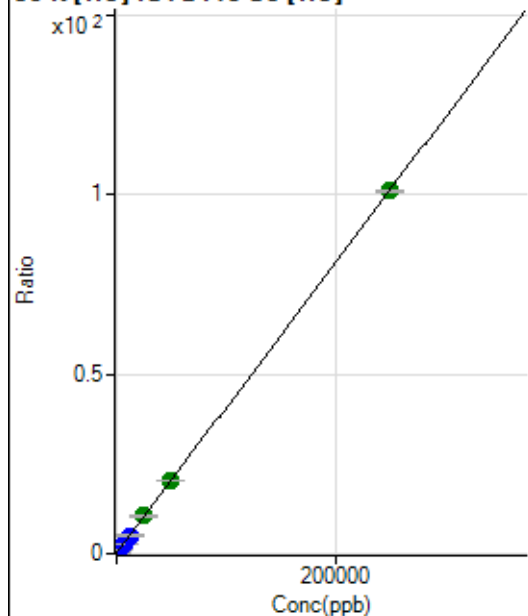
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			198200.10		P	0.1
2	☐			208380.74		P	1.1
3	☐			220174.39		P	0.8
4	☐			217867.28		P	0.7
5	☐			212664.59		P	1.0
6	☐			216086.81		P	0.5
7	☐			224419.52		P	0.5
8	☐			221170.10		P	0.2

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1302.87		P	2.4
2	☐			1316.76		P	1.1
3	☐			1436.22		P	5.8
4	☐			1400.10		P	4.8
5	☐			1366.76		P	3.2
6	☐			1355.66		P	4.0
7	☐			1491.78		P	11.5
8	☐			1486.23		P	7.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25773.66	0.1367	P	1.0
2	☐	500.000	483.491	61880.16	0.3319	P	1.1
3	☐	2500.000	2528.382	213874.35	1.1575	P	0.3
4	☐	6250.000	6314.982	491029.37	2.6863	P	1.4
5	☐	12500.000	12185.994	935780.66	5.0567	P	2.2
6	☐	25000.000	25631.114	1937288.65	10.4850	A	2.6
7	☐	50000.000	50227.876	3814920.22	20.4158	A	1.2
8	☐	250000.00	249905.13	18594979.76	101.0340	A	0.3

$$y = 4.0374\text{E-}004 * x + 0.1367$$

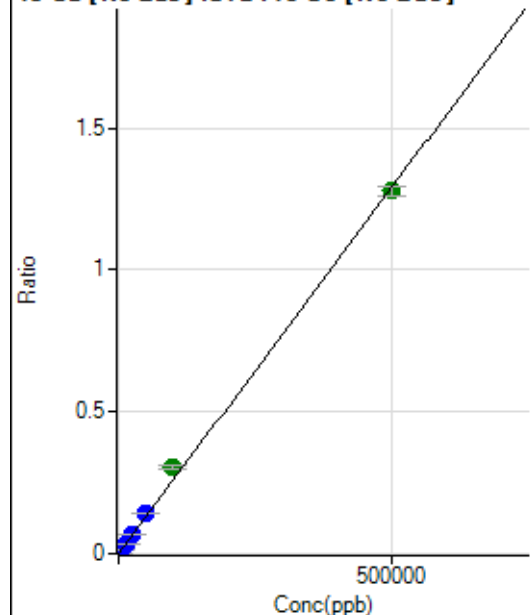
$$R = 1.0000$$

$$DL = 10.6$$

$$BEC = 338.5$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	149.56	0.0000	P	12.3
2	☐	500.000	520.823	8307.62	0.0014	P	2.1
3	☐	5000.000	5597.564	89795.70	0.0145	P	1.9
4	☐	12500.000	13671.081	218958.88	0.0353	P	2.7
5	☐	25000.000	27377.929	437365.56	0.0706	P	1.1
6	☐	50000.000	54518.598	872753.40	0.1405	P	1.8
7	☐	100000.00	117975.62	1887027.53	0.3041	A	4.3
8	☐	500000.00	495798.84	7590328.72	1.2779	A	2.6

$$y = 2.5773\text{E-}006 * x + 2.4854\text{E-}005$$

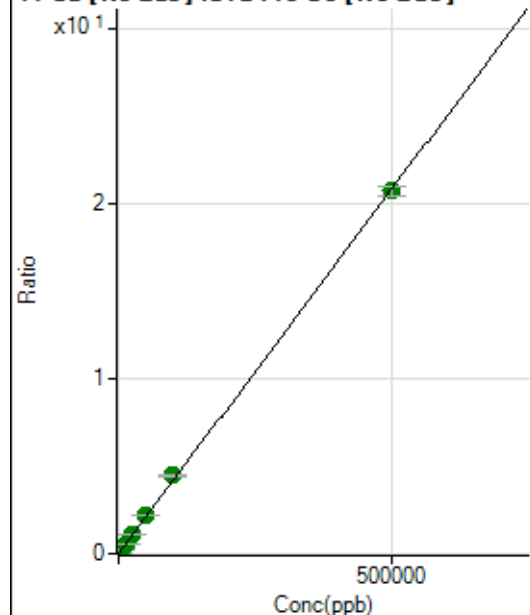
R = 0.9993

DL = 3.548

BEC = 9.643

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15085.76	0.0025	P	0.6
2	☐	500.000	510.117	144116.53	0.0237	P	1.5
3	☐	5000.000	5513.071	1440041.73	0.2317	A	0.7
4	☐	12500.000	13417.745	3479900.67	0.5603	A	2.1
5	☐	25000.000	27020.193	6973612.27	1.1258	A	3.2
6	☐	50000.000	53426.735	13809195.75	2.2236	A	1.6
7	☐	100000.00	107380.56	27721846.27	4.4666	A	3.4
8	☐	500000.00	498052.11	122996891.4	20.7079	A	3.0

$$y = 4.1573\text{E-}005 * x + 0.0025$$

R = 0.9999

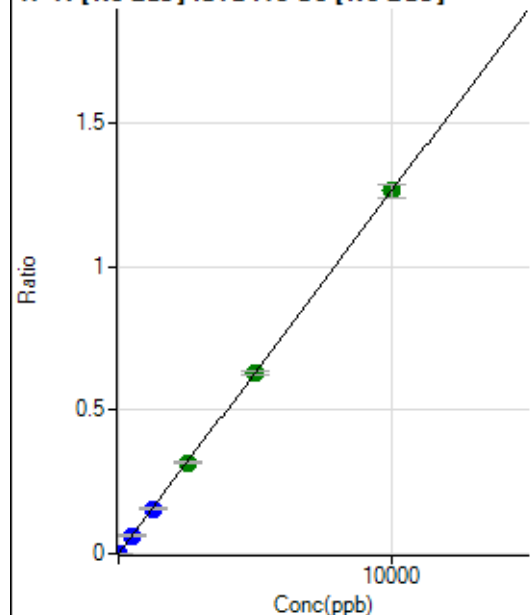
DL = 1.067

BEC = 60.34

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	147.23	0.0000	P	33.5
2	☐	5.000	5.019	4006.24	0.0007	P	4.4
3	☐	500.000	500.518	393613.08	0.0633	P	1.3
4	☐	1250.000	1244.058	977674.59	0.1574	P	1.3
5	☐	2500.000	2507.297	1965085.74	0.3172	A	2.3
6	☐	5000.000	4987.960	3918549.52	0.6310	A	2.3
7	☐	10000.000	10004.913	7855182.64	1.2657	A	3.5
8	☐			1313.99	0.0002	P	14.3

$$y = 1.2650\text{E-}004 * x + 2.4497\text{E-}005$$

$$R = 1.0000$$

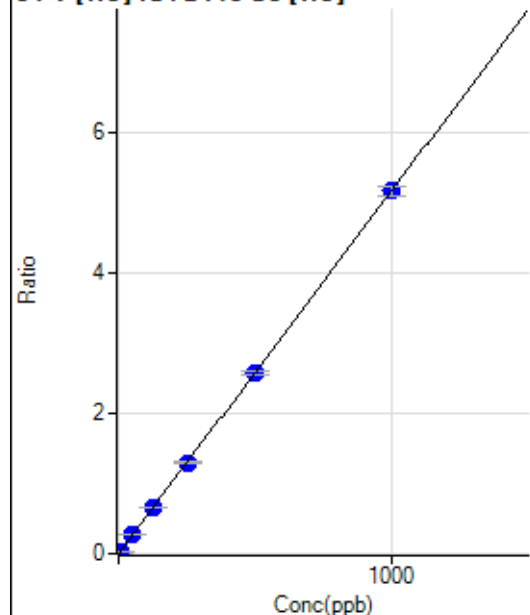
$$DL = 0.1945$$

$$BEC = 0.1936$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	11.11	0.0001	P	16.2
2	☐	5.000	4.970	4808.63	0.0258	P	2.4
3	☐	50.000	51.163	48948.96	0.2649	P	1.3
4	☐	125.000	128.247	121360.93	0.6639	P	1.9
5	☐	250.000	250.427	239885.18	1.2963	P	2.6
6	☐	500.000	498.423	476703.55	2.5799	P	2.7
7	☐	1000.000	1000.218	967343.84	5.1772	P	2.8
8	☐			288.90	0.0016	P	11.0

$$y = 0.0052 * x + 5.8852\text{E-}005$$

$$R = 1.0000$$

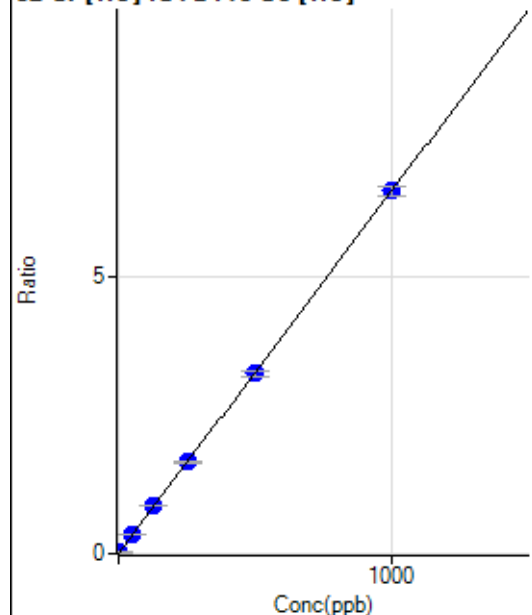
$$DL = 0.005533$$

$$BEC = 0.01137$$

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	745.58	0.0040	P	1.9
2	☐	2.000	2.062	3255.96	0.0175	P	3.8
3	☐	50.000	53.090	65035.99	0.3520	P	0.9
4	☐	125.000	133.064	160170.12	0.8762	P	1.4
5	☐	250.000	251.925	306319.49	1.6553	P	3.0
6	☐	500.000	495.678	601086.78	3.2532	P	3.2
7	☐	1000.000	1000.517	1226162.83	6.5624	P	2.4
8	☐			9627.77	0.0523	P	0.9

$$y = 0.0066 * x + 0.0040$$

$$R = 1.0000$$

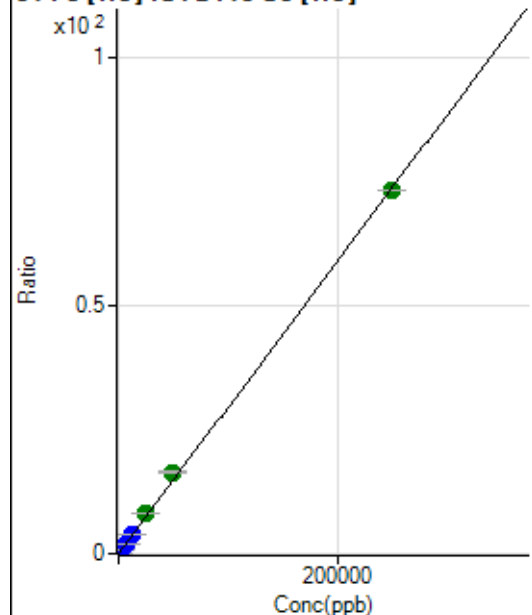
$$DL = 0.03424$$

$$BEC = 0.6032$$

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	675.96	0.0036	P	10.1
2	☐	50.000	54.265	3643.12	0.0195	P	1.6
3	☐	2500.000	2685.816	146568.78	0.7933	P	0.9
4	☐	6250.000	6725.692	362160.04	1.9811	P	0.8
5	☐	12500.000	13208.915	719338.86	3.8873	P	2.7
6	☐	25000.000	27615.704	1500826.19	8.1232	A	3.5
7	☐	50000.000	55569.991	3053373.01	16.3423	A	2.7
8	☐	250000.00	248575.23	13451862.57	73.0897	A	0.1

$$y = 2.9402E-004 * x + 0.0036$$

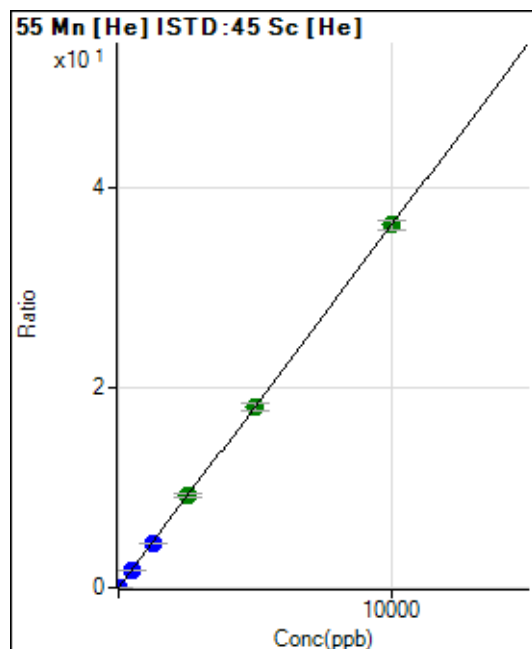
$$R = 0.9997$$

$$DL = 3.697$$

$$BEC = 12.19$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	77.78	0.0004	P	3.9
2	☐	1.000	0.939	713.36	0.0038	P	7.3
3	☐	500.000	479.705	322212.96	1.7438	P	0.9
4	☐	1250.000	1211.414	804876.07	4.4031	P	1.5
5	☐	2500.000	2559.735	1721402.63	9.3033	A	4.7
6	☐	5000.000	4973.979	3339905.05	18.0775	A	3.8
7	☐	10000.000	10003.914	6793687.61	36.3580	A	2.8
8	☐			2985.90	0.0162	P	5.3

$$y = 0.0036 * x + 4.1233E-004$$

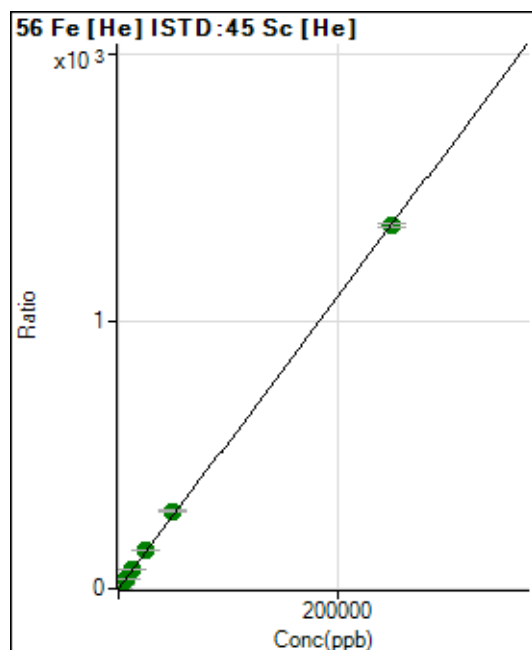
$$R = 1.0000$$

$$DL = 0.01333$$

$$BEC = 0.1135$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4930.55	0.0261	P	2.0
2	☐	50.000	51.087	56666.09	0.3039	P	1.2
3	☐	2500.000	2722.428	2739142.45	14.8268	A	1.5
4	☐	6250.000	6823.299	6786364.16	37.1214	A	1.1
5	☐	12500.000	13472.904	13559215.12	73.2724	A	1.9
6	☐	25000.000	26474.573	26601539.95	143.9567	A	2.7
7	☐	50000.000	52869.841	53710834.53	287.4561	A	2.6
8	☐	250000.00	249213.37	249367674.0	1,354.888	A	1.1

$$y = 0.0054 * x + 0.0261$$

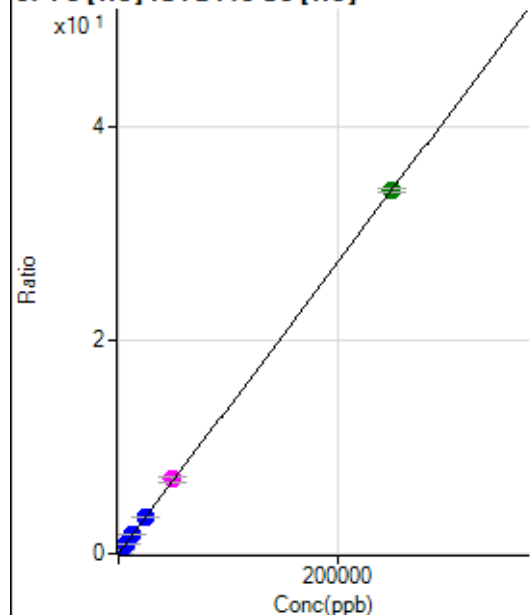
$$R = 0.9999$$

$$DL = 0.2848$$

$$BEC = 4.809$$

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	212.97	0.0011	P	6.6
2	☐	50.000	50.096	1479.73	0.0079	P	9.3
3	☐	2500.000	2563.019	64586.78	0.3496	P	1.5
4	☐	6250.000	6405.935	159409.74	0.8720	P	1.3
5	☐	12500.000	12791.954	322035.93	1.7402	P	3.0
6	☐	25000.000	25305.369	635884.05	3.4415	P	3.3
7	☐	50000.000	50994.820	1295663.47	6.9340	M	5.9
8	☐	250000.00	249751.37	6249814.90	33.9556	A	1.2

$$y = 1.3595E-004 * x + 0.0011$$

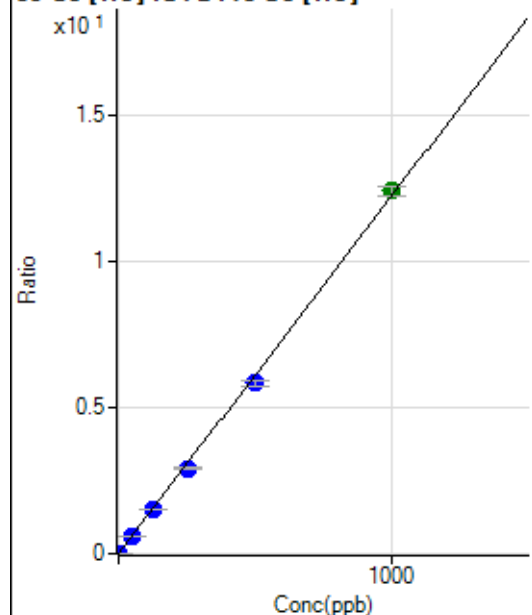
$$R = 1.0000$$

$$DL = 1.64$$

$$BEC = 8.311$$

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	85.56	0.0005	P	30.4
2	☐	1.000	1.000	2359.11	0.0127	P	5.4
3	☐	50.000	49.631	111985.61	0.6061	P	0.9
4	☐	125.000	123.375	275335.57	1.5061	P	1.3
5	☐	250.000	238.486	538632.33	2.9108	P	3.0
6	☐	500.000	476.340	1074169.65	5.8135	P	2.5
7	☐	1000.000	1014.930	2314404.46	12.3862	A	2.4
8	☐			1865.70	0.0101	P	3.5

$$y = 0.0122 * x + 4.5257E-004$$

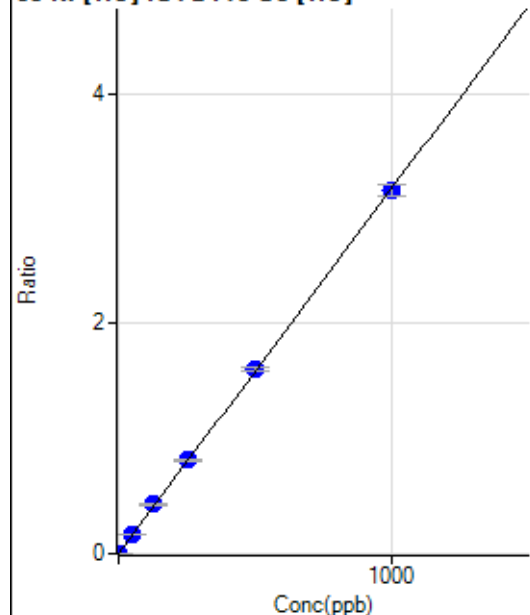
$$R = 0.9995$$

$$DL = 0.03385$$

$$BEC = 0.03709$$

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	122.23	0.0006	P	6.9
2	☐	1.000	1.105	774.48	0.0042	P	4.1
3	☐	50.000	54.151	31864.62	0.1724	P	0.8
4	☐	125.000	134.266	77983.78	0.4266	P	1.9
5	☐	250.000	255.639	150194.83	0.8117	P	3.3
6	☐	500.000	506.123	296802.88	1.6063	P	2.5
7	☐	1000.000	994.163	589456.34	3.1546	P	3.1
8	☐			1801.25	0.0098	P	7.5

$$y = 0.0032 * x + 6.4787E-004$$

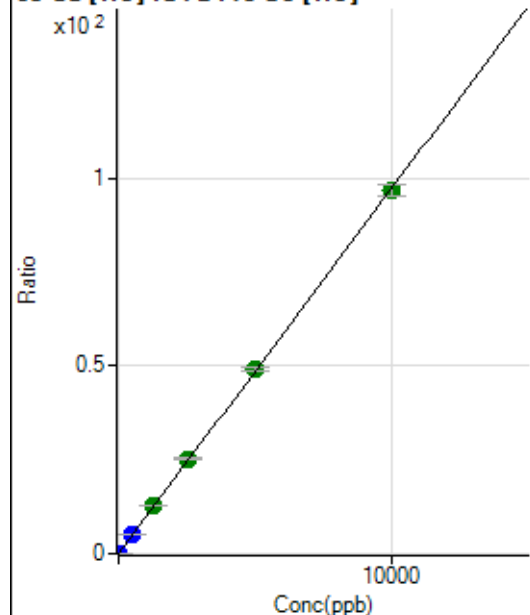
$$R = 0.9999$$

$$DL = 0.04197$$

$$BEC = 0.2042$$

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	1110.06	0.0059	P	2.8
2	☐	2.000	1.896	4534.10	0.0243	P	2.4
3	☐	500.000	503.768	906085.34	4.9035	P	0.7
4	☐	1250.000	1323.098	2352571.34	12.8690	A	0.5
5	☐	2500.000	2589.281	4659491.22	25.1787	A	2.4
6	☐	5000.000	5060.585	9090736.95	49.2045	A	2.6
7	☐	10000.000	9938.062	18055037.65	96.6230	A	3.3
8	☐			3501.58	0.0190	P	0.2

$$y = 0.0097 * x + 0.0059$$

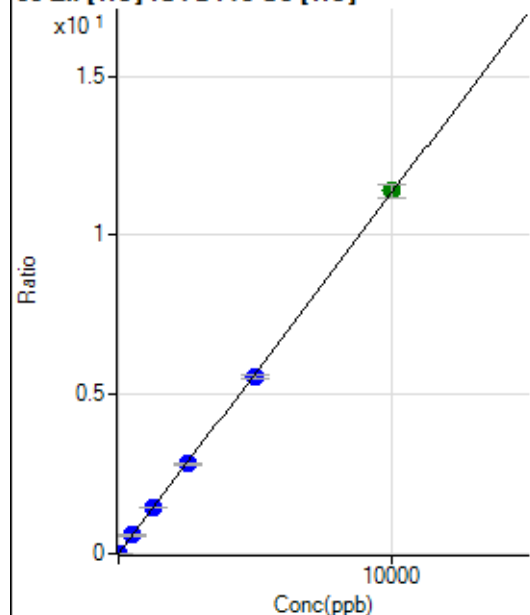
$$R = 0.9999$$

$$DL = 0.05067$$

$$BEC = 0.6056$$

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	147.78	0.0008	P	18.3
2	☐	2.000	2.285	628.91	0.0034	P	11.8
3	☐	500.000	506.542	106161.25	0.5745	P	0.8
4	☐	1250.000	1259.398	260902.22	1.4272	P	0.8
5	☐	2500.000	2485.950	521211.00	2.8164	P	2.3
6	☐	5000.000	4888.936	1023232.17	5.5380	P	2.2
7	☐	10000.000	10057.542	2128545.42	11.3920	A	3.8
8	☐			10181.52	0.0553	P	1.6

$$y = 0.0011 * x + 7.8251E-004$$

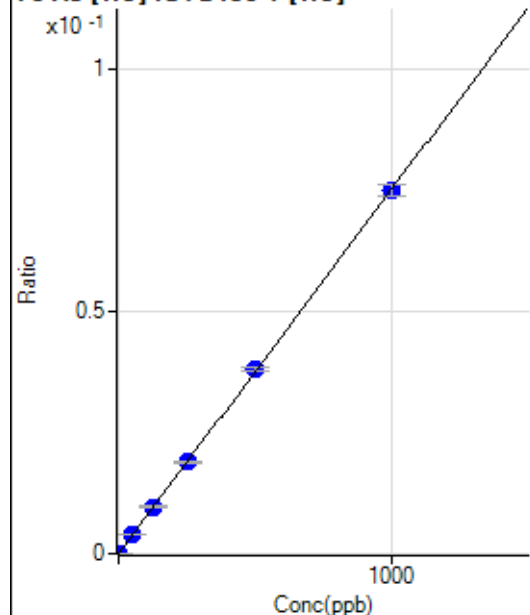
$$R = 0.9999$$

$$DL = 0.3795$$

$$BEC = 0.6909$$

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	3.33	0.0000	P	46.1
2	☐	1.000	1.065	126.34	0.0001	P	6.6
3	☐	50.000	51.419	5980.87	0.0039	P	1.3
4	☐	125.000	129.255	14823.25	0.0097	P	0.5
5	☐	250.000	251.733	29440.14	0.0190	P	2.9
6	☐	500.000	505.806	58778.29	0.0381	P	2.6
7	☐	1000.000	996.061	117730.23	0.0750	P	3.1
8	☐			25.67	0.0000	P	17.0

$$y = 7.5311E-005 * x + 2.1524E-006$$

$$R = 1.0000$$

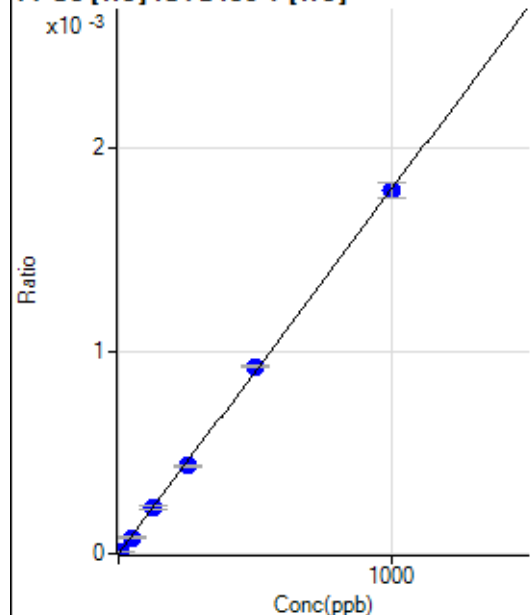
$$DL = 0.03951$$

$$BEC = 0.02858$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.834	13.33	0.0000	P	43.3
3	☐	50.000	44.708	124.45	0.0001	P	19.6
4	☐	125.000	124.334	340.01	0.0002	P	8.7
5	☐	250.000	241.862	675.58	0.0004	P	2.0
6	☐	500.000	513.580	1424.53	0.0009	P	1.3
7	☐	1000.000	995.593	2809.20	0.0018	P	4.2
8	☐			3.33	0.0000	P	0.6

$$y = 1.7980\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

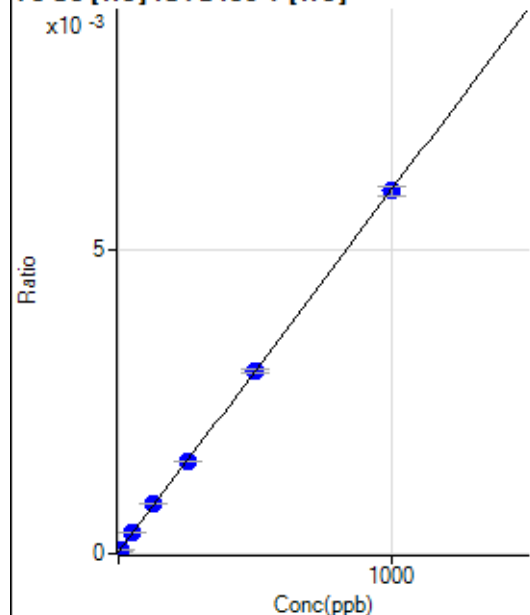
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	40.67	0.0000	P	15.5
2	☐	5.000	5.527	90.68	0.0001	P	8.7
3	☐	50.000	53.448	531.73	0.0003	P	2.8
4	☐	125.000	133.729	1251.52	0.0008	P	2.5
5	☐	250.000	252.437	2374.11	0.0015	P	0.4
6	☐	500.000	501.598	4645.91	0.0030	P	2.3
7	☐	1000.000	997.326	9357.39	0.0060	P	2.9
8	☐			54.01	0.0000	P	12.8

$$y = 5.9520\text{E-}006 * x + 2.6235\text{E-}005$$

$$R = 1.0000$$

$$DL = 2.046$$

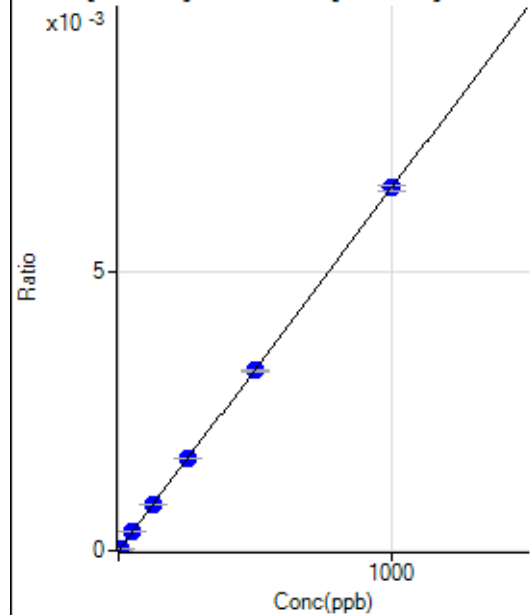
$$BEC = 4.408$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			29518.22		P	1.6
2	☐			29406.88		P	5.7
3	☐			29415.23		P	4.8
4	☐			28952.99		P	4.5
5	☐			29604.49		P	1.3
6	☐			29562.87		P	2.8
7	☐			29465.34		P	2.6
8	☐			29370.34		P	2.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8.75	0.0000	P	173.
2	☐	5.000	5.103	497.04	0.0000	P	9.7
3	☐	50.000	54.511	5098.33	0.0004	P	2.1
4	☐	125.000	127.963	12440.04	0.0008	P	1.9
5	☐	250.000	253.418	24708.77	0.0016	P	0.5
6	☐	500.000	496.236	48804.65	0.0032	P	1.8
7	☐	1000.000	1000.431	96479.81	0.0065	P	1.4
8	☐			86.24	0.0000	P	48.8

$$y = 6.4976E-006 * x + 6.0359E-007$$

$$R = 1.0000$$

$$DL = 0.4848$$

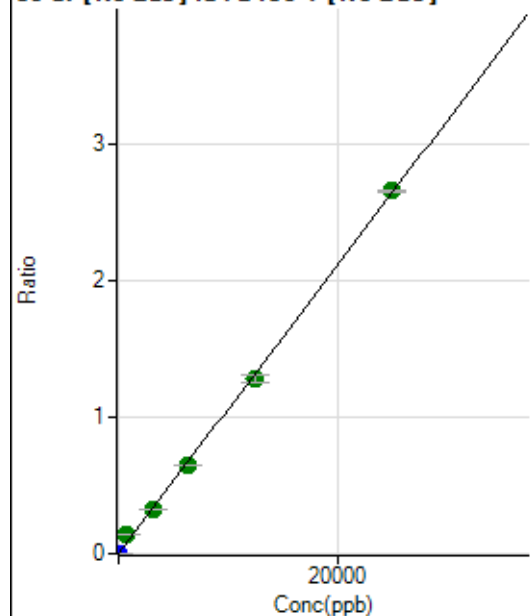
$$BEC = 0.09289$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			319.13		P	3.9
2	☐			334.96		P	5.6
3	☐			311.22		P	0.4
4	☐			292.47		P	0.9
5	☐			344.13		P	8.1
6	☐			325.38		P	3.2
7	☐			330.80		P	4.4
8	☐			345.38		P	6.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	513.92	0.0000	P	7.8
2	☐	1.000	1.027	2111.33	0.0001	P	4.6
3	☐	625.000	1323.429	2004090.82	0.1394	A	0.8
4	☐	3125.000	3095.406	4876706.10	0.3261	A	0.6
5	☐	6250.000	6134.436	9693036.59	0.6462	A	1.4
6	☐	12500.000	12155.251	19374220.22	1.2805	A	3.6
7	☐	25000.000	25187.504	39380848.10	2.6533	A	0.2
8	☐			10495.91	0.0007	P	9.5

$$y = 1.0534\text{E-}004 * x + 3.5033\text{E-}005$$

$$R = 0.9994$$

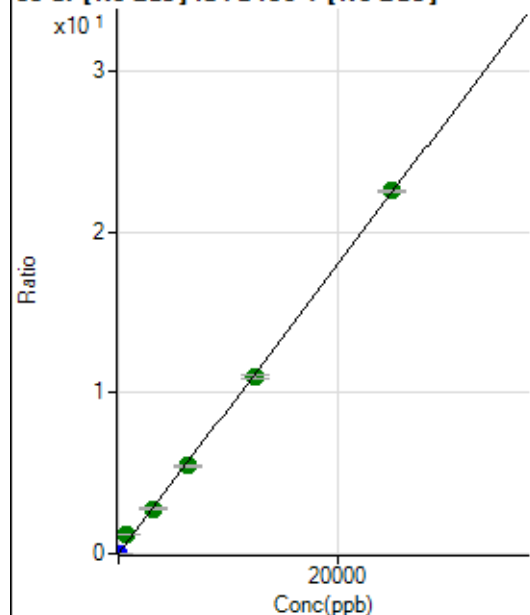
$$DL = 0.07741$$

$$BEC = 0.3326$$

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	311.12	0.0000	P	22.5
2	☐	1.000	0.959	13006.40	0.0009	P	1.7
3	☐	625.000	1310.290	16904183.54	1.1761	A	1.2
4	☐	3125.000	3125.967	41954120.04	2.8059	A	1.6
5	☐	6250.000	6098.193	82105202.53	5.4737	A	1.3
6	☐	12500.000	12239.977	166268709.2	10.9865	A	2.7
7	☐	25000.000	25150.710	335057340.8	22.5751	A	0.7
8	☐			85738.15	0.0060	P	11.4

$$y = 8.9759\text{E-}004 * x + 2.1182\text{E-}005$$

$$R = 0.9995$$

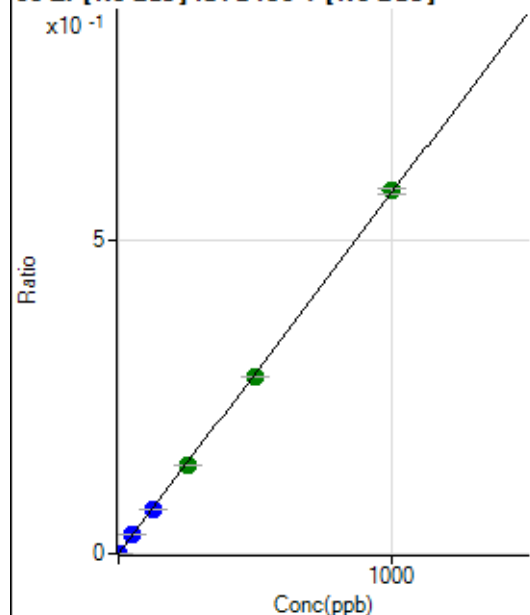
$$DL = 0.01595$$

$$BEC = 0.0236$$

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	516.69	0.0000	P	15.4
2	☐	1.000	0.967	8719.61	0.0006	P	1.3
3	☐	50.000	51.225	423973.28	0.0295	P	1.9
4	☐	125.000	121.545	1046039.26	0.0700	P	1.5
5	☐	250.000	246.472	2127378.65	0.1418	A	1.1
6	☐	500.000	489.901	4266978.91	0.2819	A	0.3
7	☐	1000.000	1006.302	8591748.89	0.5790	A	1.7
8	☐			1944.63	0.0001	P	7.7

$$y = 5.7529\text{E-}004 * x + 3.5179\text{E-}005$$

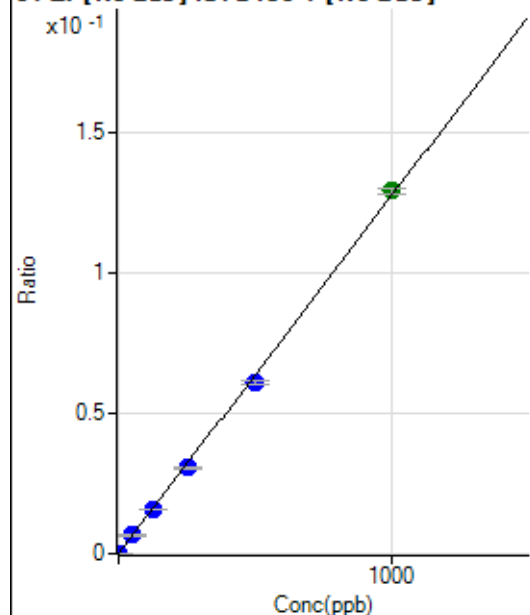
$$R = 0.9999$$

$$DL = 0.02819$$

$$BEC = 0.06115$$

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	66.67	0.0000	P	56.1
2	☐	1.000	0.981	1911.30	0.0001	P	8.6
3	☐	50.000	51.742	95024.52	0.0066	P	3.1
4	☐	125.000	121.807	232691.07	0.0156	P	1.4
5	☐	250.000	239.097	458187.95	0.0305	P	0.3
6	☐	500.000	478.613	925205.50	0.0611	P	2.1
7	☐	1000.000	1013.731	1921732.83	0.1295	A	1.7
8	☐			472.24	0.0000	P	20.6

$$y = 1.2773\text{E-}004 * x + 4.5191\text{E-}006$$

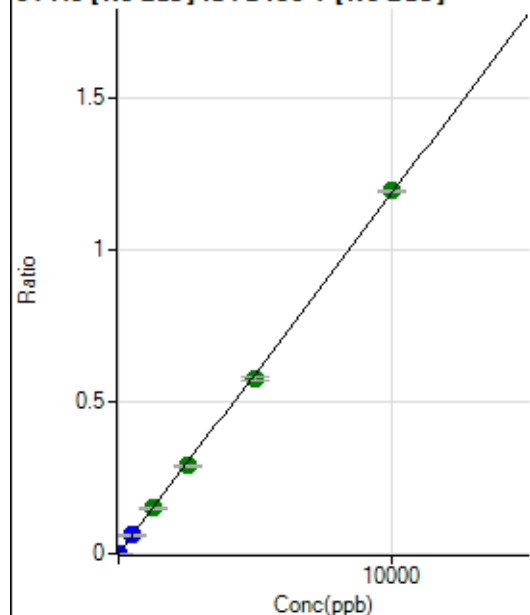
$$R = 0.9996$$

$$DL = 0.05949$$

$$BEC = 0.03538$$

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	208.34	0.0000	P	12.8
2	☐	5.000	5.578	9937.11	0.0007	P	6.4
3	☐	500.000	510.971	869602.38	0.0605	P	1.6
4	☐	1250.000	1262.184	2234531.76	0.1495	A	2.0
5	☐	2500.000	2439.679	4333037.51	0.2889	A	1.0
6	☐	5000.000	4870.824	8727624.59	0.5767	A	2.0
7	☐	10000.000	10077.596	17708796.75	1.1932	A	0.7
8	☐			3711.73	0.0003	P	18.6

$$y = 1.1840\text{E-}004 * x + 1.4203\text{E-}005$$

$$R = 0.9998$$

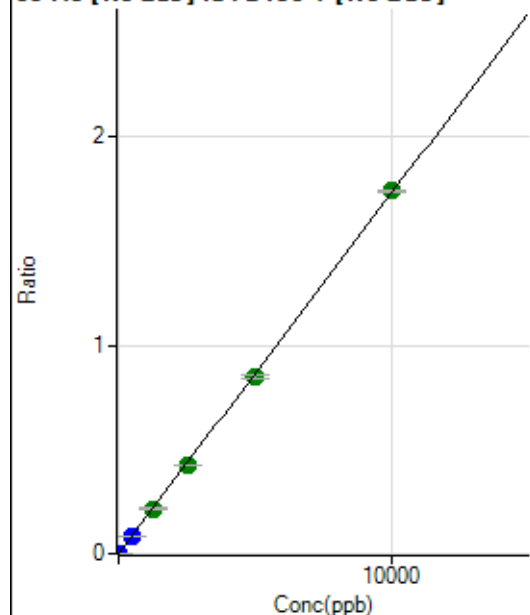
$$DL = 0.04603$$

$$BEC = 0.12$$

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	86.12	0.0000	P	24.8
2	☐	5.000	4.744	12177.87	0.0008	P	1.5
3	☐	500.000	503.686	1251857.31	0.0871	P	1.1
4	☐	1250.000	1240.826	3208136.81	0.2146	A	2.6
5	☐	2500.000	2449.334	6353963.21	0.4236	A	1.3
6	☐	5000.000	4892.010	12801727.80	0.8460	A	2.5
7	☐	10000.000	10067.624	25838874.54	1.7410	A	0.8
8	☐			5062.19	0.0004	P	15.6

$$y = 1.7293\text{E-}004 * x + 5.8732\text{E-}006$$

$$R = 0.9999$$

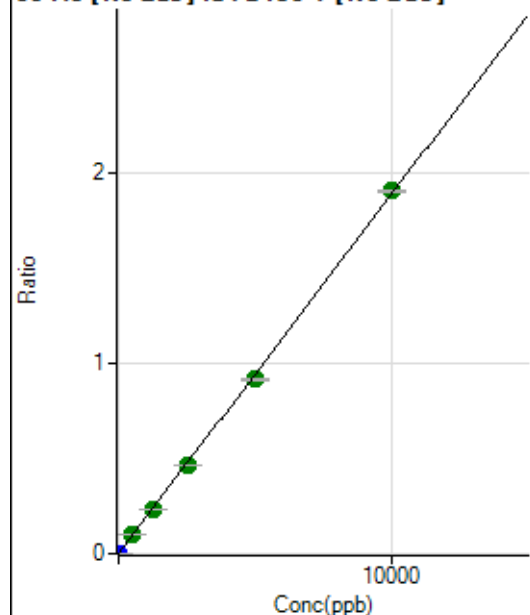
$$DL = 0.02526$$

$$BEC = 0.03396$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	147.23	0.0000	P	28.8
2	☐	5.000	4.815	13579.22	0.0009	P	0.9
3	☐	500.000	516.781	1405922.82	0.0978	A	2.0
4	☐	1250.000	1238.307	3504724.00	0.2344	A	2.6
5	☐	2500.000	2451.523	6960788.00	0.4641	A	1.3
6	☐	5000.000	4843.226	13874136.25	0.9168	A	1.9
7	☐	10000.000	10091.129	28349776.67	1.9102	A	0.7
8	☐			9253.34	0.0006	P	12.6

$$y = 1.8929\text{E-}004 * x + 1.0053\text{E-}005$$

$$R = 0.9998$$

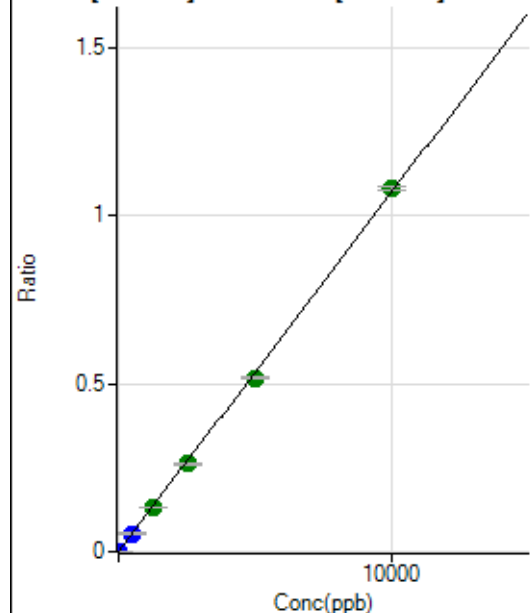
$$DL = 0.04587$$

$$BEC = 0.05311$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	58.33	0.0000	P	38.2
2	☐	5.000	4.669	7404.96	0.0005	P	3.4
3	☐	500.000	507.926	779822.36	0.0543	P	0.5
4	☐	1250.000	1233.087	1969513.15	0.1317	A	1.0
5	☐	2500.000	2451.147	3927281.82	0.2618	A	1.4
6	☐	5000.000	4832.990	7813071.36	0.5163	A	1.6
7	☐	10000.000	10097.436	16007468.94	1.0786	A	0.9
8	☐			2980.98	0.0002	P	16.4

$$y = 1.0682\text{E-}004 * x + 3.9769\text{E-}006$$

$$R = 0.9998$$

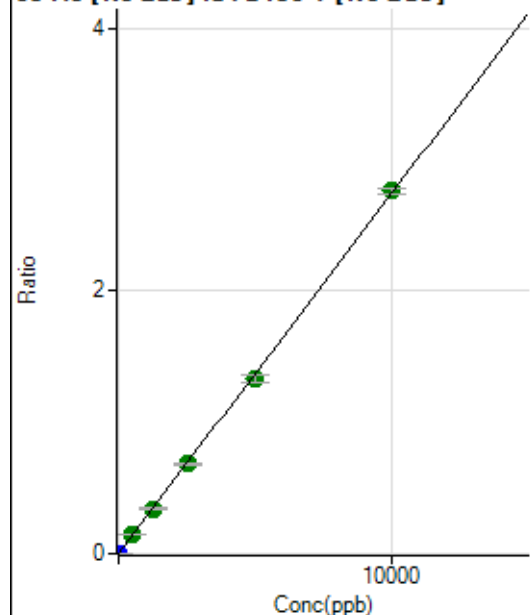
$$DL = 0.04262$$

$$BEC = 0.03723$$

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	138.90	0.0000	P	39.4
2	☐	5.000	4.644	18910.59	0.0013	P	3.1
3	☐	500.000	524.986	2069717.86	0.1440	A	1.5
4	☐	1250.000	1247.150	5114048.81	0.3421	A	3.6
5	☐	2500.000	2483.975	10220690.42	0.6814	A	0.9
6	☐	5000.000	4855.112	20149376.67	1.3318	A	4.0
7	☐	10000.000	10075.557	41018329.39	2.7638	A	1.4
8	☐			7863.59	0.0006	P	14.4

$$y = 2.7431\text{E-}004 * x + 9.4920\text{E-}006$$

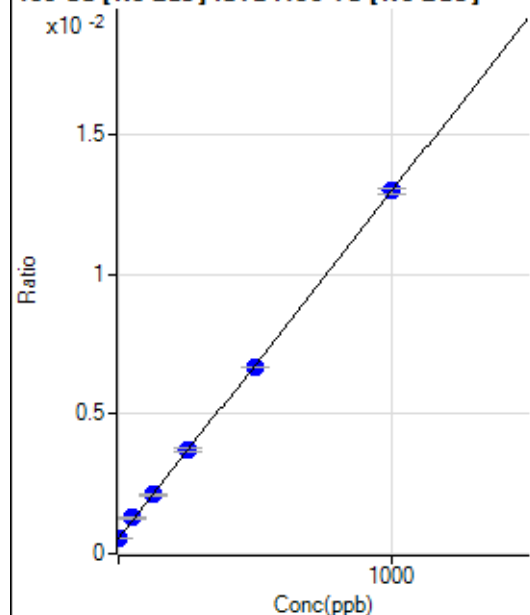
$$R = 0.9998$$

$$DL = 0.04092$$

$$BEC = 0.0346$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5476.27	0.0005	P	4.2
2	☐	1.000	0.815	5693.00	0.0006	P	4.2
3	☐	50.000	59.692	12964.81	0.0013	P	3.5
4	☐	125.000	126.266	21901.24	0.0021	P	2.3
5	☐	250.000	255.182	38827.56	0.0037	P	2.2
6	☐	500.000	493.504	69819.10	0.0067	P	0.7
7	☐	1000.000	1001.310	132857.74	0.0130	P	1.6
8	☐			5515.18	0.0005	P	3.8

$$y = 1.2407\text{E-}005 * x + 5.4607\text{E-}004$$

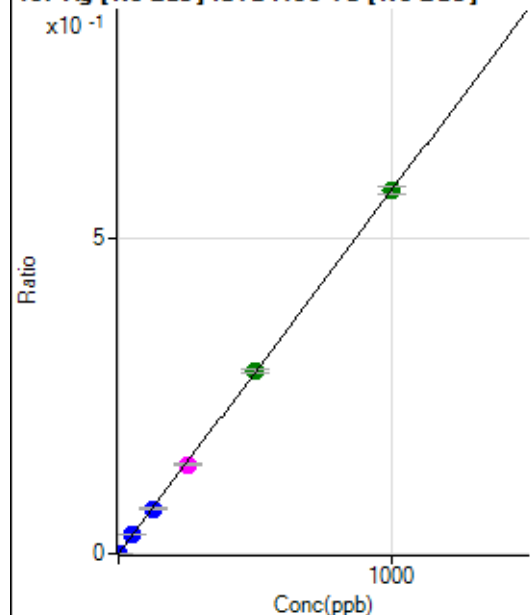
$$R = 0.9999$$

$$DL = 5.493$$

$$BEC = 44.01$$

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	127.78	0.0000	P	13.6
2	☐	1.000	0.970	5854.22	0.0006	P	5.6
3	☐	50.000	52.214	303513.16	0.0301	P	1.7
4	☐	125.000	123.991	741119.88	0.0715	P	2.1
5	☐	250.000	245.997	1483644.40	0.1418	M	3.9
6	☐	500.000	503.871	3041158.75	0.2905	A	1.9
7	☐	1000.000	999.081	5900381.16	0.5760	A	2.3
8	☐			2330.83	0.0002	P	10.7

$$y = 5.7651\text{E-}004 * x + 1.2722\text{E-}005$$

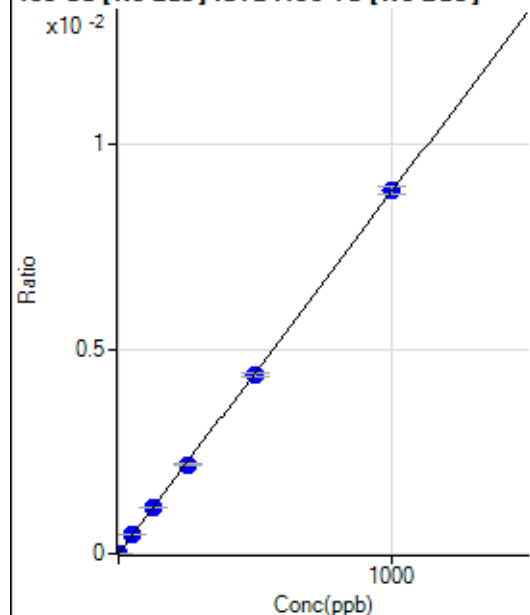
$$R = 1.0000$$

$$DL = 0.008981$$

$$BEC = 0.02207$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	10.0
2	☐	1.000	1.053	123.61	0.0000	P	26.1
3	☐	50.000	52.618	4716.14	0.0005	P	1.3
4	☐	125.000	127.682	11724.56	0.0011	P	3.1
5	☐	250.000	245.840	22763.44	0.0022	P	1.2
6	☐	500.000	495.065	45826.15	0.0044	P	2.6
7	☐	1000.000	1003.041	90834.51	0.0089	P	2.1
8	☐			65.28	0.0000	P	35.8

$$y = 8.8375E-006 * x + 2.7719E-006$$

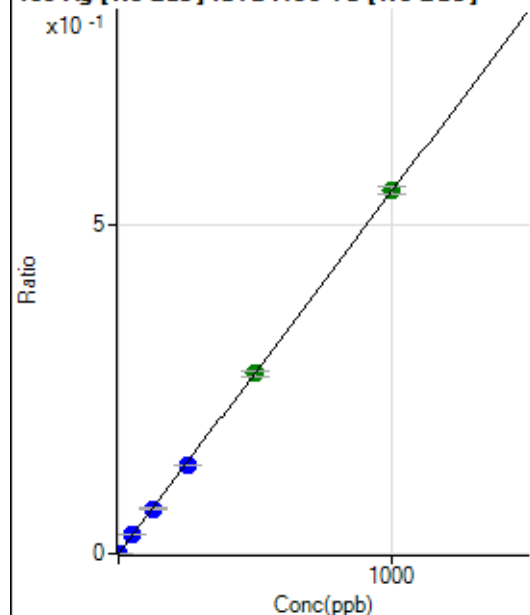
$$R = 1.0000$$

$$DL = 0.09399$$

$$BEC = 0.3137$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0000	P	44.7
2	☐	1.000	0.968	5509.59	0.0005	P	3.8
3	☐	50.000	51.980	288746.50	0.0287	P	2.0
4	☐	125.000	123.164	703560.72	0.0679	P	3.1
5	☐	250.000	243.662	1404903.25	0.1343	P	0.5
6	☐	500.000	497.655	2870759.33	0.2743	A	3.9
7	☐	1000.000	1002.888	5661388.15	0.5527	A	2.2
8	☐			2161.35	0.0002	P	5.4

$$y = 5.5109E-004 * x + 4.9949E-006$$

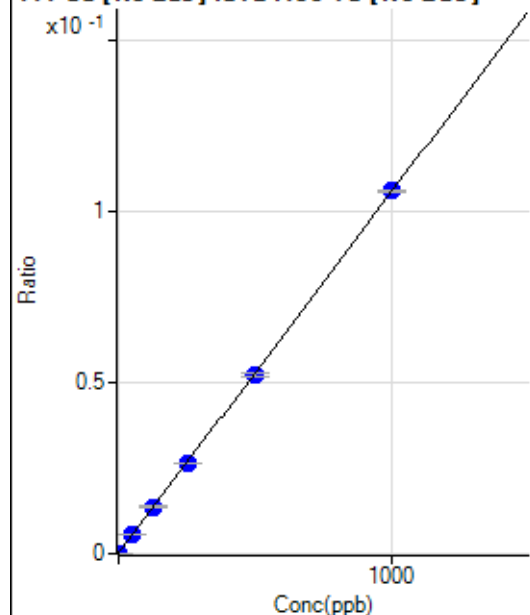
$$R = 1.0000$$

$$DL = 0.01214$$

$$BEC = 0.009064$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1084.14	0.0001	P	3.5
2	☐	1.000	1.071	2264.64	0.0002	P	1.6
3	☐	50.000	53.447	57969.17	0.0058	P	2.6
4	☐	125.000	129.027	142345.67	0.0137	P	3.4
5	☐	250.000	248.340	275489.20	0.0263	P	1.3
6	☐	500.000	493.224	546375.99	0.0522	P	2.4
7	☐	1000.000	1003.127	1086332.15	0.1060	P	0.4
8	☐			1429.57	0.0001	P	2.2

$$y = 1.0561\text{E-}004 * x + 1.0810\text{E-}004$$

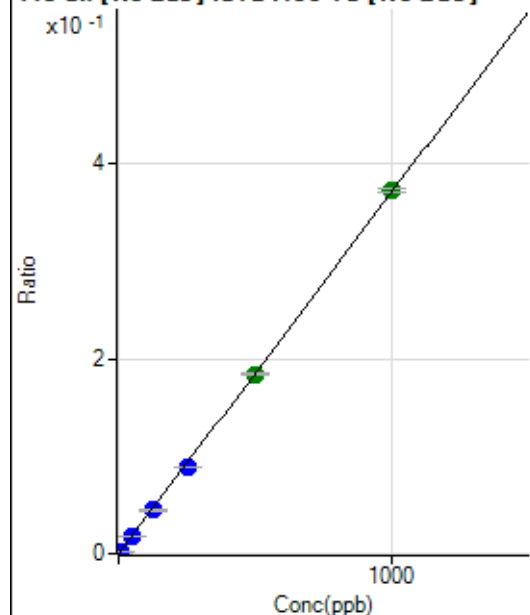
$$R = 0.9999$$

$$DL = 0.1063$$

$$BEC = 1.024$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	986.17	0.0001	P	1.8
2	☐	5.000	4.775	19111.08	0.0019	P	3.2
3	☐	50.000	48.875	183418.11	0.0182	P	3.4
4	☐	125.000	119.672	460518.86	0.0444	P	2.4
5	☐	250.000	239.676	929791.99	0.0889	P	1.7
6	☐	500.000	496.859	1927784.12	0.1841	A	1.3
7	☐	1000.000	1004.875	3814098.22	0.3723	A	1.0
8	☐			2036.32	0.0002	P	13.7

$$y = 3.7043\text{E-}004 * x + 9.8307\text{E-}005$$

$$R = 0.9999$$

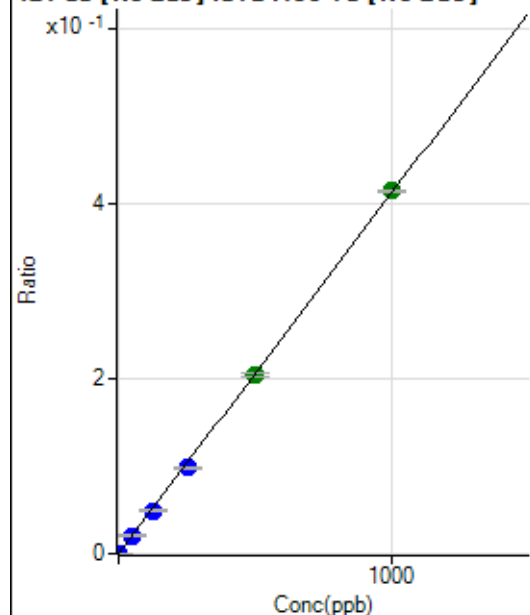
$$DL = 0.01453$$

$$BEC = 0.2654$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.56	0.0000	P	22.1
2	☐	2.000	1.984	8419.49	0.0008	P	3.9
3	☐	50.000	50.447	209444.75	0.0208	P	1.9
4	☐	125.000	119.528	510272.42	0.0492	P	2.8
5	☐	250.000	237.483	1023026.04	0.0978	P	2.5
6	☐	500.000	494.140	2130454.61	0.2035	A	2.1
7	☐	1000.000	1006.721	4247174.88	0.4146	A	0.4
8	☐			2033.54	0.0002	P	7.6

$$y = 4.1183\text{E-}004 * x + 5.5322\text{E-}006$$

$$R = 0.9999$$

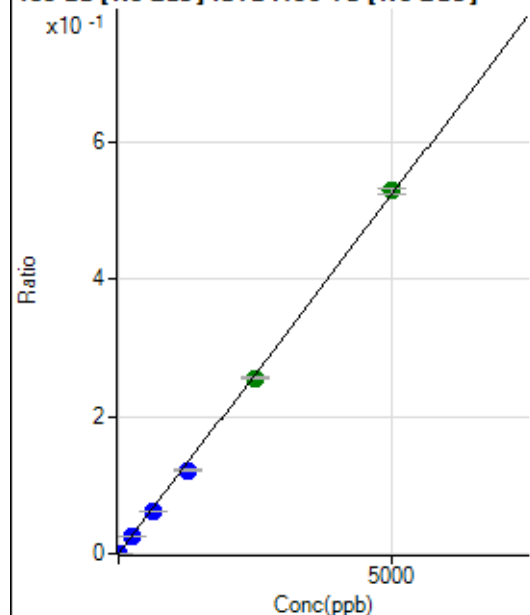
$$DL = 0.008893$$

$$BEC = 0.01343$$

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	22.22	0.0000	P	58.1
2	☐	10.000	9.303	9973.41	0.0010	P	3.6
3	☐	250.000	244.642	257733.45	0.0256	P	0.1
4	☐	625.000	587.746	636700.46	0.0614	P	2.8
5	☐	1250.000	1163.908	1272267.82	0.1216	P	2.3
6	☐	2500.000	2444.201	2674249.06	0.2554	A	1.2
7	☐	5000.000	5054.348	5410697.60	0.5282	A	1.5
8	☐			3078.22	0.0003	P	6.2

$$y = 1.0450\text{E-}004 * x + 2.2274\text{E-}006$$

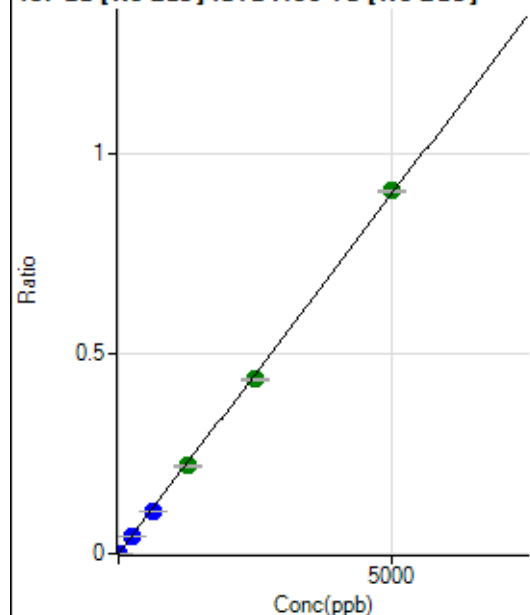
$$R = 0.9997$$

$$DL = 0.03715$$

$$BEC = 0.02131$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	36.11	0.0000	P	11.9
2	☐	10.000	9.420	17397.68	0.0017	P	0.4
3	☐	250.000	245.490	445599.70	0.0442	P	0.5
4	☐	625.000	587.510	1096814.27	0.1058	P	1.3
5	☐	1250.000	1223.177	2303915.68	0.2202	A	2.7
6	☐	2500.000	2425.178	4572039.43	0.4367	A	1.1
7	☐	5000.000	5049.030	9313188.75	0.9091	A	0.8
8	☐			5492.93	0.0005	P	5.6

$$y = 1.8006E-004 * x + 3.5957E-006$$

$$R = 0.9998$$

$$DL = 0.0071$$

$$BEC = 0.01997$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15.55		P	24.8
2	☐			11.11		P	124.
3	☐			44.44		P	17.3
4	☐			108.89		P	18.7
5	☐			166.67		P	4.0
6	☐			264.45		P	18.9
7	☐			580.03		P	6.4
8	☐			24.44		P	56.8

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	173.
3	☐			1.11		P	173.
4	☐			3.33		P	100.
5	☐			8.89		P	57.3
6	☐			12.22		P	31.5
7	☐			37.78		P	22.2
8	☐			10.00		P	66.7

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐			8.33		P	100.
3	☐			33.33		P	25.0
4	☐			47.22		P	83.4
5	☐			105.56		P	16.4
6	☐			166.67		P	20.0
7	☐			347.24		P	14.5
8	☐			922.28		P	15.3

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			1.11		P	173.
3	☐			10.00		P	33.3
4	☐			26.67		P	45.1
5	☐			23.33		P	42.9
6	☐			61.11		P	24.6
7	☐			138.89		P	7.7
8	☐			402.23		P	1.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			69.45		P	18.3
2	☐			111.11		P	11.5
3	☐			88.89		P	35.5
4	☐			175.01		P	8.2
5	☐			175.01		P	14.3
6	☐			180.56		P	21.3
7	☐			283.35		P	5.1
8	☐			966.73		P	16.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			110.00		P	28.9
2	☐			135.56		P	7.9
3	☐			143.34		P	18.5
4	☐			125.56		P	19.9
5	☐			155.56		P	8.7
6	☐			193.34		P	16.4
7	☐			215.56		P	2.4
8	☐			586.69		P	6.0

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			130.56		P	32.8
2	☐			58.33		P	42.9
3	☐			66.67		P	21.7
4	☐			77.78		P	16.4
5	☐			86.11		P	29.6
6	☐			111.11		P	8.7
7	☐			83.33		P	26.5
8	☐			125.00		P	6.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			31.11		P	30.9
2	☐			35.55		P	59.5
3	☐			37.78		P	27.0
4	☐			32.22		P	52.1
5	☐			26.67		P	21.7
6	☐			34.44		P	27.9
7	☐			28.89		P	6.7
8	☐			52.22		P	20.5

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.67		P	25.0
2	☐			55.55		P	8.7
3	☐			83.34		P	10.0
4	☐			91.67		P	24.1
5	☐			69.45		P	25.0
6	☐			100.00		P	30.0
7	☐			144.45		P	16.7
8	☐			427.80		P	9.6

172 Yb [He] No available calibration points

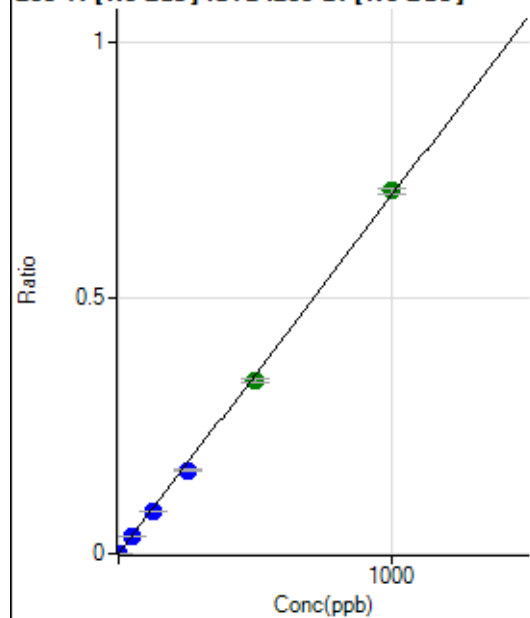
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			29.63		P	47.2
2	☐			44.45		P	43.3
3	☐			37.04		P	31.2
4	☐			33.33		P	16.7
5	☐			59.26		P	37.9
6	☐			46.30		P	42.1
7	☐			70.37		P	22.8
8	☐			211.12		P	25.1

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1605.70		P	12.3
2	☐			1819.62		P	9.7
3	☐			2708.69		P	9.6
4	☐			3961.80		P	1.9
5	☐			6140.48		P	2.5
6	☐			10365.42		P	2.4
7	☐			18861.13		P	1.9
8	☐			1875.18		P	1.9

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			9049.54		P	1.8
2	☐			8980.97		P	1.7
3	☐			9173.68		P	2.5
4	☐			10028.03		P	4.7
5	☐			10747.16		P	3.5
6	☐			12585.85		P	2.6
7	☐			16662.57		P	2.4
8	☐			9107.02		P	3.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	105.56	0.0000	P	14.1
2	☐	1.000	0.929	4273.05	0.0007	P	4.4
3	☐	50.000	47.144	210467.06	0.0330	P	3.2
4	☐	125.000	117.573	520553.75	0.0822	P	2.0
5	☐	250.000	232.085	1026664.20	0.1623	P	2.2
6	☐	500.000	484.829	2190375.24	0.3391	A	1.8
7	☐	1000.000	1013.135	4429592.55	0.7086	A	1.4
8	☐			797.27	0.0001	P	18.1

$$y = 6.9935E-004 * x + 1.6900E-005$$

$$R = 0.9997$$

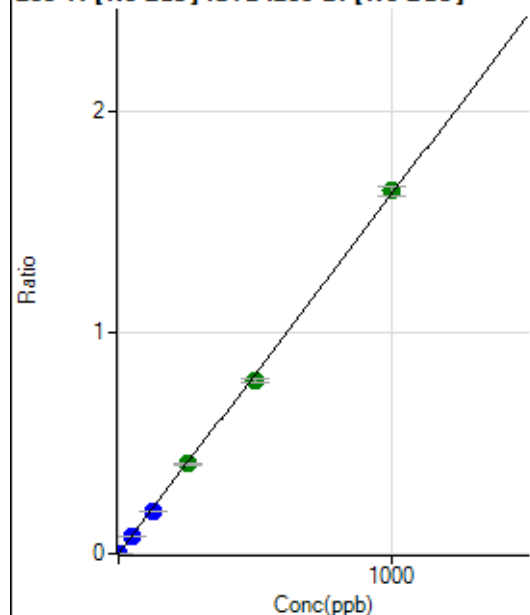
$$DL = 0.01023$$

$$BEC = 0.02416$$

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	319.46	0.0001	P	13.0
2	☐	1.000	0.947	10190.43	0.0016	P	1.4
3	☐	50.000	47.805	495851.51	0.0777	P	1.0
4	☐	125.000	119.272	1226689.37	0.1938	P	1.4
5	☐	250.000	249.690	2565818.72	0.4056	A	1.3
6	☐	500.000	482.734	5065423.99	0.7842	A	1.7
7	☐	1000.000	1009.536	10250515.85	1.6399	A	2.4
8	☐			2128.02	0.0004	P	16.0

$$y = 0.0016 * x + 5.0942E-005$$

$$R = 0.9998$$

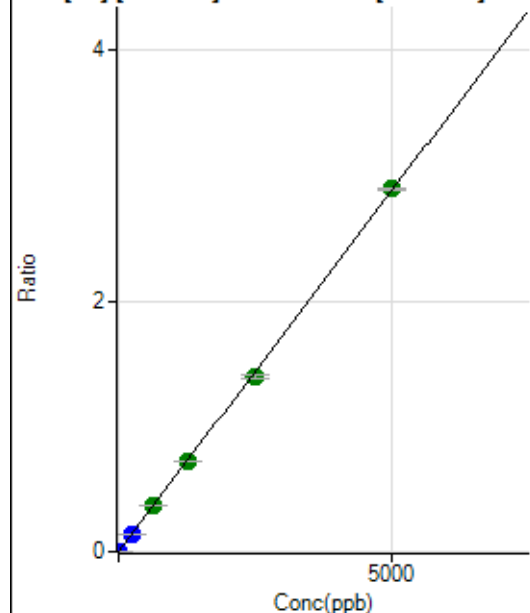
$$DL = 0.0122$$

$$BEC = 0.03136$$

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	518.54	0.0001	P	5.6
2	☐	1.000	0.856	3685.78	0.0006	P	0.7
3	☐	250.000	238.685	876653.28	0.1374	P	2.5
4	☐	625.000	644.004	2345881.62	0.3706	A	1.8
5	☐	1250.000	1254.965	4568760.87	0.7221	A	0.4
6	☐	2500.000	2433.329	9043543.14	1.4001	A	2.1
7	☐	5000.000	5030.284	18095286.51	2.8943	A	0.5
8	☐			3832.12	0.0007	P	11.9

$$y = 5.7536E-004 * x + 8.2785E-005$$

$$R = 0.9999$$

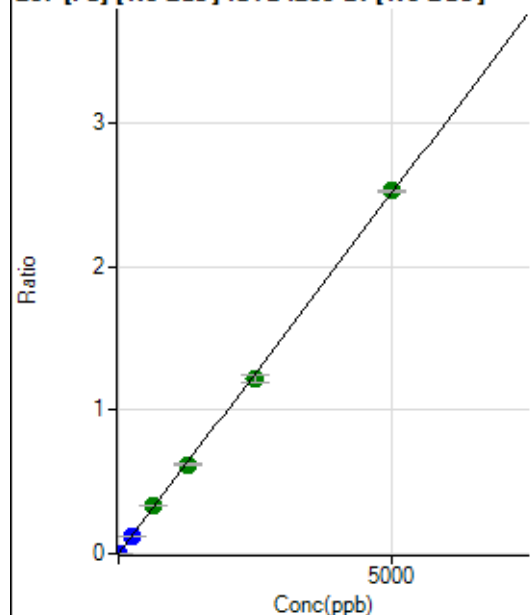
$$DL = 0.02421$$

$$BEC = 0.1439$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	401.86	0.0001	P	12.9
2	☐	1.000	0.914	3350.49	0.0005	P	5.1
3	☐	250.000	245.410	786053.01	0.1232	P	3.1
4	☐	625.000	660.405	2098474.97	0.3315	A	1.5
5	☐	1250.000	1240.012	3937309.03	0.6224	A	0.9
6	☐	2500.000	2428.176	7870799.83	1.2187	A	3.5
7	☐	5000.000	5034.213	15797433.11	2.5267	A	0.6
8	☐			3117.10	0.0006	P	9.5

$$y = 5.0189\text{E-}004 * x + 6.4227\text{E-}005$$

$$R = 0.9998$$

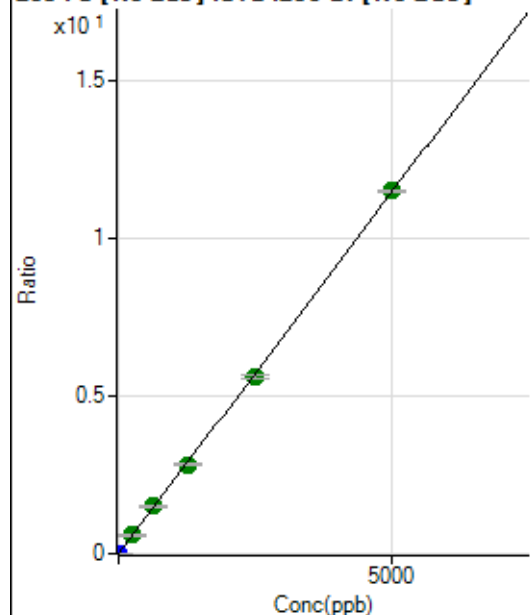
$$DL = 0.04953$$

$$BEC = 0.128$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2000.09	0.0003	P	1.0
2	☐	1.000	0.911	15428.01	0.0024	P	2.7
3	☐	250.000	253.539	3709596.67	0.5815	A	3.0
4	☐	625.000	652.964	9476749.88	1.4972	A	2.1
5	☐	1250.000	1237.312	17946246.14	2.8368	A	0.6
6	☐	2500.000	2449.168	36266035.76	5.6150	A	2.5
7	☐	5000.000	5024.915	72027051.03	11.5198	A	0.7
8	☐			14653.52	0.0026	P	11.6

$$y = 0.0023 * x + 3.1949\text{E-}004$$

$$R = 0.9999$$

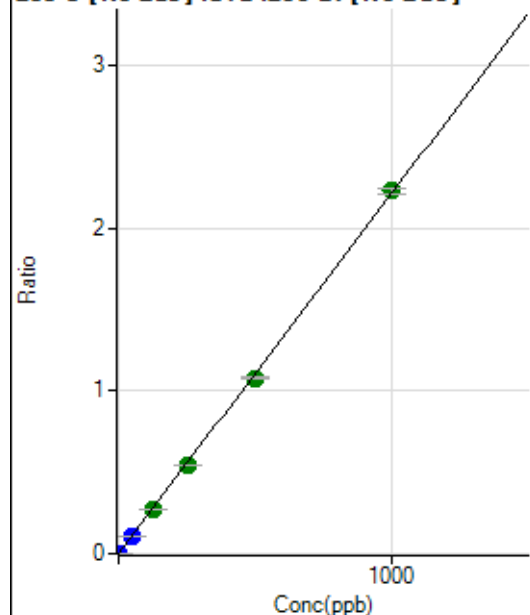
$$DL = 0.004109$$

$$BEC = 0.1394$$

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	83.34	0.0000	P	12.0
2	☐	1.000	0.940	13429.64	0.0021	P	3.2
3	☐	50.000	47.292	668748.32	0.1048	P	2.0
4	☐	125.000	123.599	1733899.54	0.2739	A	1.9
5	☐	250.000	246.748	3459319.91	0.5469	A	0.7
6	☐	500.000	487.909	6984644.60	1.0813	A	1.5
7	☐	1000.000	1007.169	13954049.27	2.2321	A	1.5
8	☐			1027.85	0.0002	P	29.7

$$y = 0.0022 * x + 1.3337E-005$$

$$R = 0.9999$$

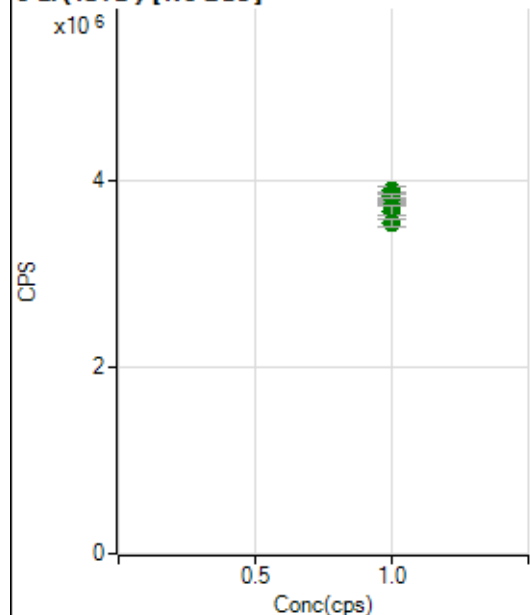
$$DL = 0.002167$$

$$BEC = 0.006018$$

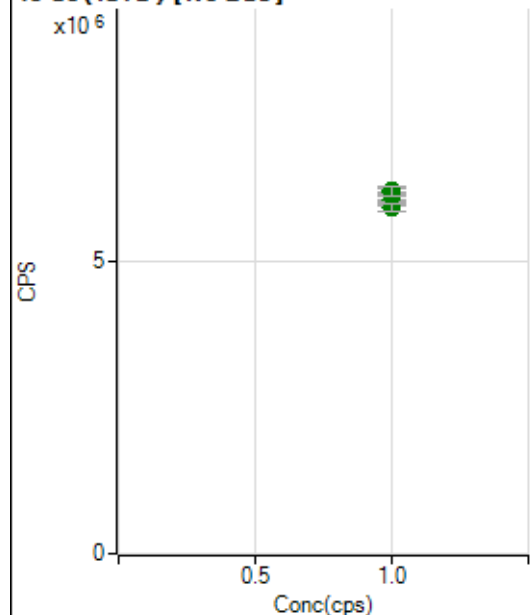
Weight: <None>

Min Conc: 0

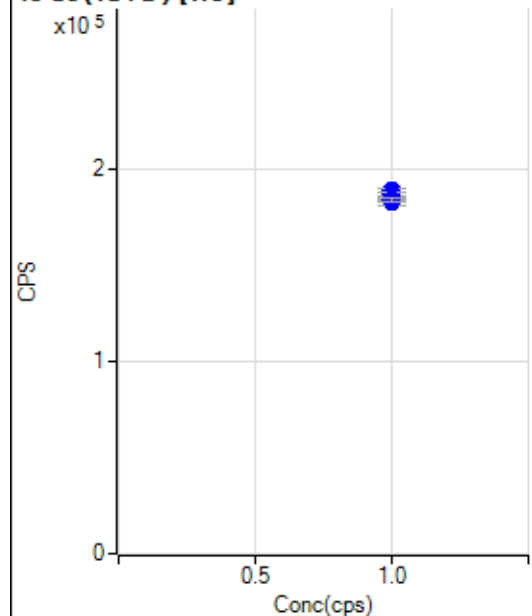
6 Li (ISTD) [No Gas]



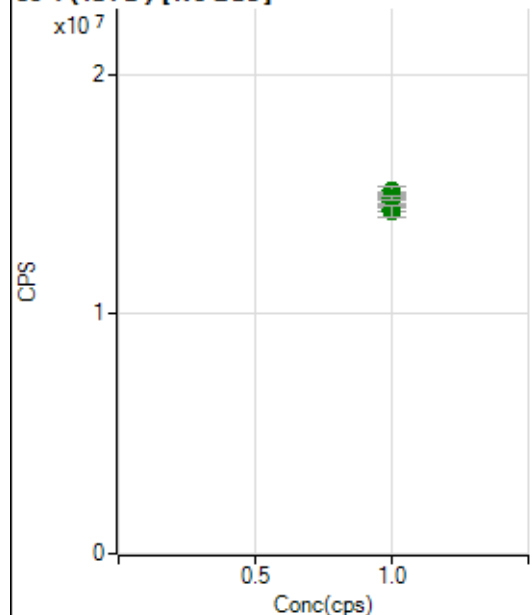
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		3782850.74		A	1.1
2	☐	1.000		3784367.06		A	0.8
3	☐	1.000		3852584.47		A	1.5
4	☐	1.000		3892763.67		A	2.0
5	☐	1.000		3852327.06		A	1.9
6	☐	1.000		3835289.32		A	1.1
7	☐	1.000		3681531.48		A	2.7
8	☐	1.000		3547211.16		A	2.6

45 Sc (ISTD) [No Gas]

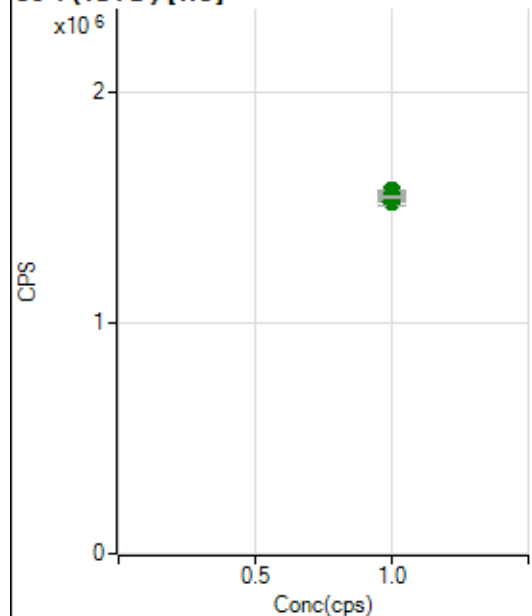
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6013536.65		A	1.3
2	☐	1.000		6077815.74		A	1.7
3	☐	1.000		6215117.34		A	2.0
4	☐	1.000		6211926.71		A	2.3
5	☐	1.000		6196933.03		A	2.0
6	☐	1.000		6210911.50		A	1.1
7	☐	1.000		6209465.95		A	2.5
8	☐	1.000		5942160.81		A	2.3

45 Sc (ISTD) [He]

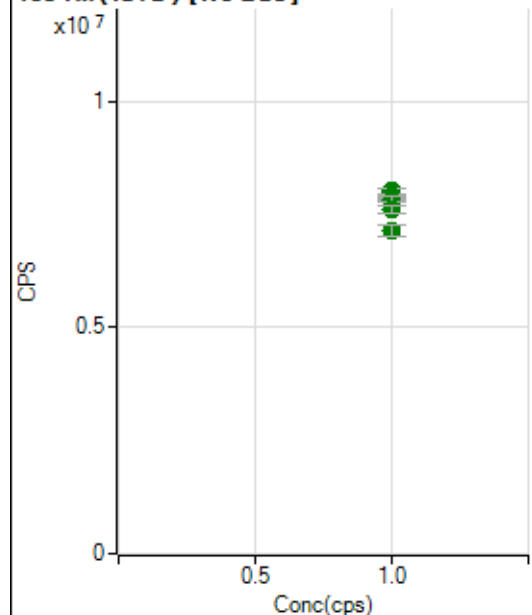
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		188577.55		P	1.2
2	☐	1.000		186456.59		P	1.1
3	☐	1.000		184773.72		P	1.8
4	☐	1.000		182819.99		P	1.9
5	☐	1.000		185062.58		P	0.9
6	☐	1.000		184777.05		P	1.1
7	☐	1.000		186870.20		P	1.5
8	☐	1.000		184047.15		P	1.1

89 Y (ISTD) [No Gas]

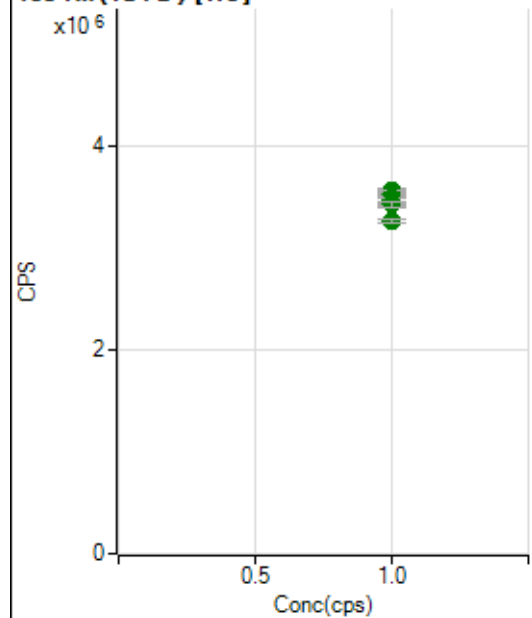
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14678117.70		A	1.4
2	☐	1.000		14736899.36		A	2.1
3	☐	1.000		14372351.04		A	1.4
4	☐	1.000		14953495.47		A	1.5
5	☐	1.000		15001142.69		A	1.5
6	☐	1.000		15137548.66		A	2.2
7	☐	1.000		14841990.06		A	1.2
8	☐	1.000		14306935.89		A	3.2

89 Y (ISTD) [He]

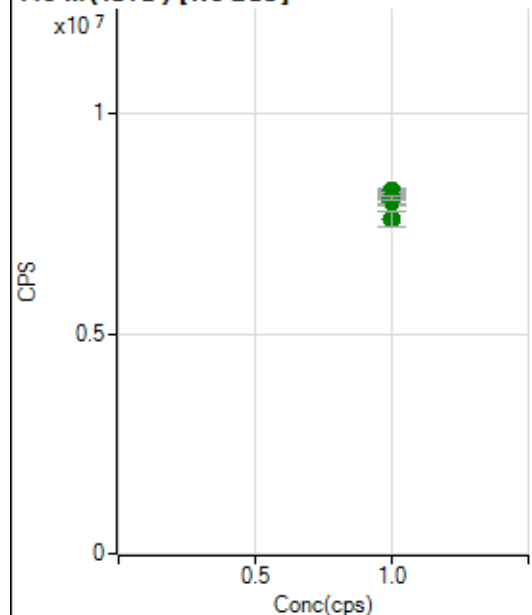
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1548556.25		A	1.4
2	☐	1.000		1533828.94		A	0.5
3	☐	1.000		1543845.17		A	2.7
4	☐	1.000		1522572.81		A	2.3
5	☐	1.000		1553063.90		A	2.3
6	☐	1.000		1542840.50		A	1.3
7	☐	1.000		1569454.49		A	0.3
8	☐	1.000		1543709.79		A	0.6

103 Rh (ISTD) [No Gas]

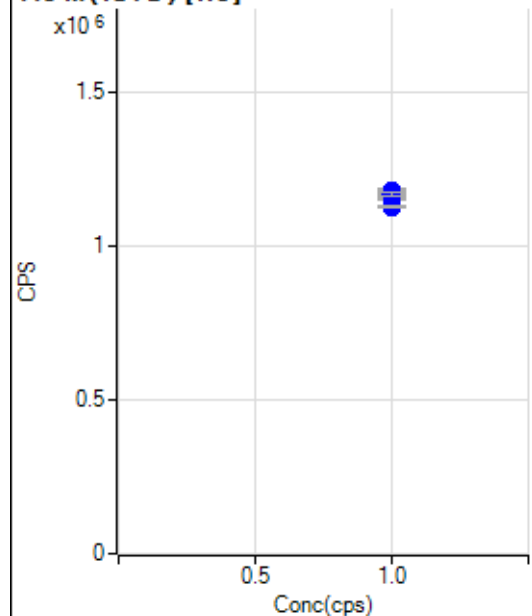
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7859815.45		A	2.2
2	☐	1.000		7862942.02		A	1.7
3	☐	1.000		7988195.23		A	1.7
4	☐	1.000		8014861.38		A	1.6
5	☐	1.000		7907494.36		A	1.3
6	☐	1.000		7829880.12		A	1.4
7	☐	1.000		7607889.06		A	2.0
8	☐	1.000		7133783.06		A	3.7

103 Rh (ISTD) [He]

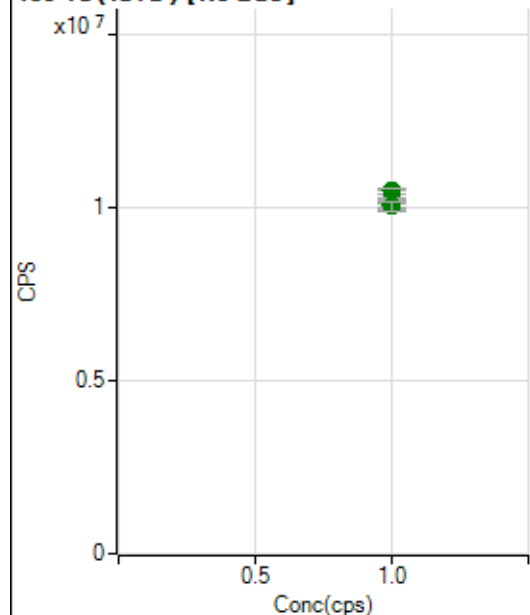
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3556867.52		A	1.7
2	☐	1.000		3543075.33		A	0.4
3	☐	1.000		3530893.35		A	2.3
4	☐	1.000		3454651.13		A	2.8
5	☐	1.000		3496115.26		A	0.9
6	☐	1.000		3464522.69		A	1.6
7	☐	1.000		3423023.56		A	2.0
8	☐	1.000		3261210.16		A	1.4

115 In (ISTD) [No Gas]

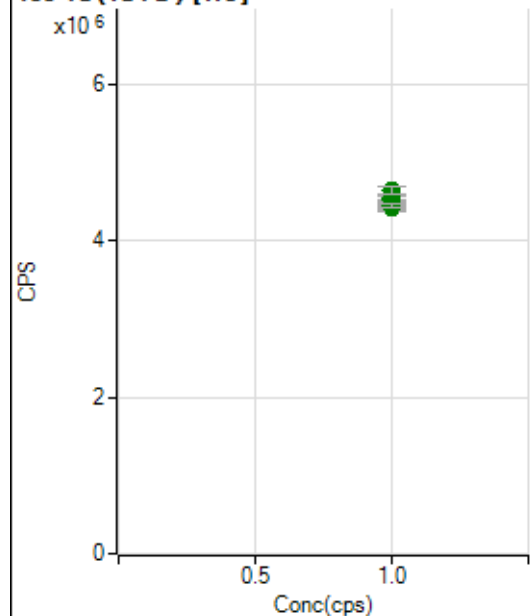
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8141235.61		A	2.7
2	☐	1.000		7982473.92		A	2.2
3	☐	1.000		8019701.33		A	1.8
4	☐	1.000		8242150.02		A	1.4
5	☐	1.000		8130837.81		A	0.6
6	☐	1.000		8207469.04		A	0.6
7	☐	1.000		8062787.31		A	1.1
8	☐	1.000		7602617.97		A	4.8

115 In (ISTD) [He]

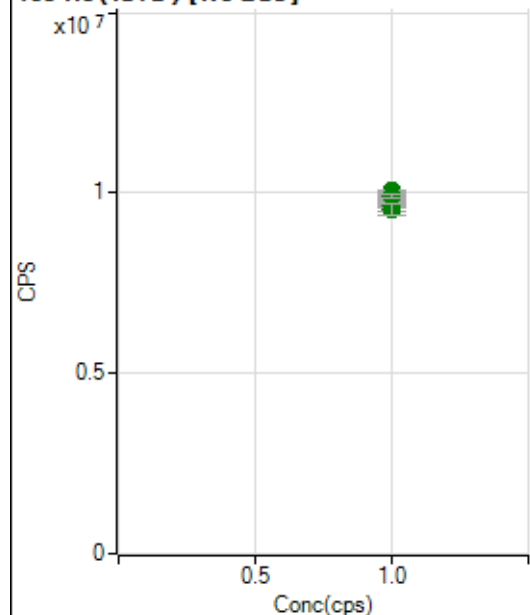
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1180983.77		P	1.6
2	☐	1.000		1172576.36		P	0.6
3	☐	1.000		1181622.82		P	0.8
4	☐	1.000		1157606.90		P	1.2
5	☐	1.000		1173988.45		P	1.5
6	☐	1.000		1157562.51		P	0.0
7	☐	1.000		1172523.62		P	1.3
8	☐	1.000		1129389.22		P	0.7

159 Tb (ISTD) [No Gas]

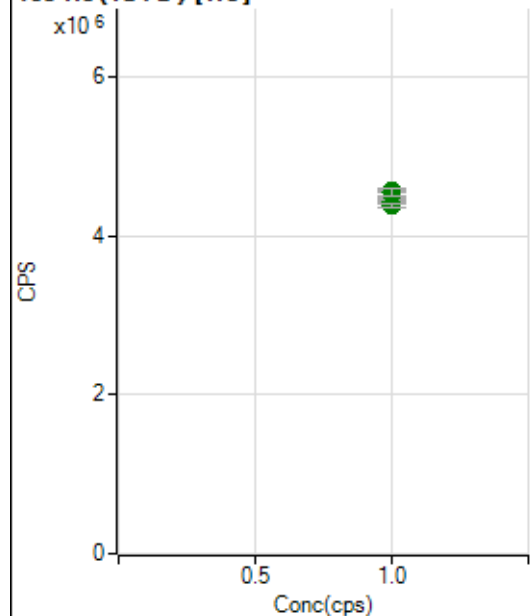
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10031370.20		A	1.4
2	☐	1.000		10235650.40		A	0.2
3	☐	1.000		10080636.10		A	1.9
4	☐	1.000		10368754.99		A	2.0
5	☐	1.000		10462850.26		A	1.9
6	☐	1.000		10469782.90		A	1.2
7	☐	1.000		10244009.71		A	0.4
8	☐	1.000		10021886.93		A	2.4

159 Tb (ISTD) [He]

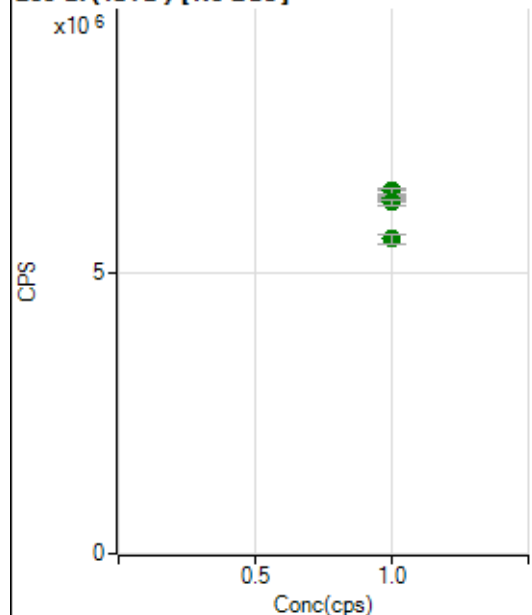
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4542018.61		A	1.2
2	☐	1.000		4420483.20		A	0.4
3	☐	1.000		4437308.41		A	1.2
4	☐	1.000		4427673.20		A	2.7
5	☐	1.000		4490156.18		A	2.1
6	☐	1.000		4540224.20		A	2.6
7	☐	1.000		4642957.50		A	2.3
8	☐	1.000		4444559.10		A	1.2

165 Ho (ISTD) [No Gas]

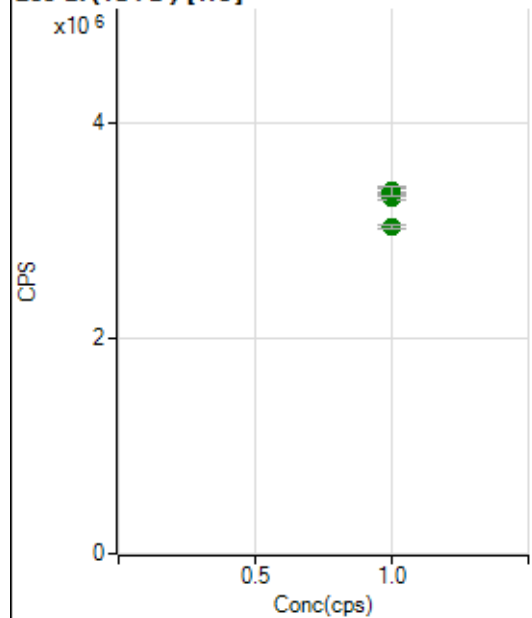
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9595831.29		A	1.6
2	☐	1.000		9647851.95		A	1.3
3	☐	1.000		9743964.54		A	2.4
4	☐	1.000		9821175.39		A	1.7
5	☐	1.000		9922358.64		A	2.1
6	☐	1.000		10062020.63		A	0.3
7	☐	1.000		9942671.14		A	1.1
8	☐	1.000		9524842.83		A	3.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4565171.88		A	0.5
2	☐	1.000		4449829.00		A	1.1
3	☐	1.000		4470584.90		A	3.3
4	☐	1.000		4419855.77		A	2.4
5	☐	1.000		4503322.78		A	1.7
6	☐	1.000		4500508.93		A	2.4
7	☐	1.000		4547168.20		A	1.8
8	☐	1.000		4380548.13		A	1.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6259389.56		A	2.3
2	☐	1.000		6409778.86		A	2.1
3	☐	1.000		6382435.81		A	3.0
4	☐	1.000		6330740.46		A	1.4
5	☐	1.000		6326401.50		A	1.9
6	☐	1.000		6460340.81		A	1.5
7	☐	1.000		6252034.22		A	1.6
8	☐	1.000		5612247.90		A	3.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3369392.27		A	1.9
2	☐	1.000		3369760.30		A	1.6
3	☐	1.000		3330482.03		A	0.4
4	☐	1.000		3336020.92		A	0.8
5	☐	1.000		3302866.38		A	1.3
6	☐	1.000		3359056.96		A	0.4
7	☐	1.000		3364543.25		A	2.4
8	☐	1.000		3036375.02		A	1.1

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8042523-MS.b

Acq. Date-Time 2023-04-25 14:19:22

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		12650	126498.28			0.707	5.000
24		97567	975674.21			0.720	5.000
25		12817	128170.30			1.185	5.000
26		14447	144472.51			0.674	5.000
59		79993	799930.00			1.303	5.000
113		7940	79395.44			1.288	5.000
115		102948	1029482.57			0.922	5.000
206		22067	220670.97			1.420	5.000
207		20065	200647.93			1.122	5.000
208		47659	476592.02			1.492	5.000
220		1	6.10			30.339	

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

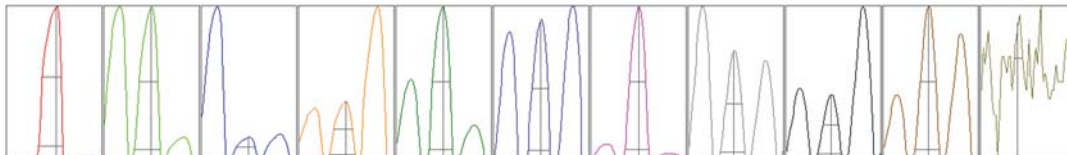
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	12634	12749	12631	12519	12716
24	98051	97405	97711	96445	98225
25	12897	12885	12705	12615	12983
26	14466	14567	14368	14331	14505
59	81118	79658	79582	78636	80972
113	8005	8030	7884	7786	7993
115	103219	103729	102261	101674	103859
206	22191	22345	21741	21720	22338
207	20159	20213	19723	19957	20272
208	47777	47999	46910	47002	48608

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	22416.04	9.10	8.90 - 9.10	
24	175200.01	24.00	23.90 - 24.10	
25	22821.02	25.00	24.90 - 25.10	
26	25961.50	26.00	25.90 - 26.10	
59	151690.05	59.00	58.90 - 59.10	
113	16292.75	113.00	112.90 - 113.10	
115	210771.78	115.05	114.90 - 115.10	
206	45432.82	205.95	205.90 - 206.10	
207	41296.67	206.95	206.90 - 207.10	
208	99088.37	207.95	207.90 - 208.10	
220	0.80	219.70	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.761	0.900	
24	0.58	0.811	0.900	
25	0.59	0.779	0.900	
26	0.59	0.798	0.900	
59	0.55	0.738	0.900	
113	0.50	0.690	0.900	
115	0.51	0.756	0.900	
206	0.49	0.769	0.900	
207	0.49	0.748	0.900	
208	0.48	0.772	0.900	
220	0.27			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.84 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	11.9 V	Deflect	15.8 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	124	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	-1.0 mm
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EM

Discriminator	4.5 mV	Analog HV	2316 V	Pulse HV	1698 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		15618	156184.72			1.293	
89		12129	121285.13			2.041	
205		16422	164220.18			2.854	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	15816	15680	15278	15635	15684
89	12515	12079	11831	12156	12062
205	17062	16516	15747	16353	16432

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.84 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	11.9 V	Deflect	5.6 V
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US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 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	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	1.2 mm	Torch V	-1.0 mm
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EM

Discriminator	4.5 mV	Analog HV	2316 V	Pulse HV	1698 V
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