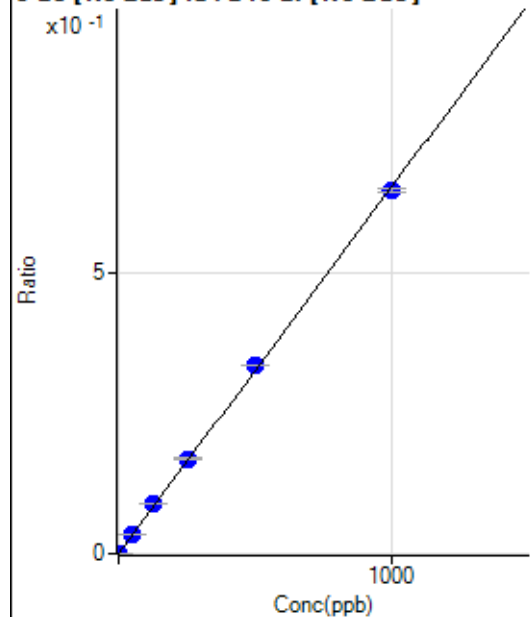


Calibration for 104SMPL.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7051223 MS.b\
 Analysis File: P7051223 MS.batch.bin
 DA Date-Time: 2023-05-12 16:57:15
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-05-12 09:45:29
2	005CALS.d	S02	2023-05-12 09:48:43
3	006CALS.d	S03	2023-05-12 09:52:00
4	007CALS.d	S04	2023-05-12 09:55:08
5	008CALS.d	S05	2023-05-12 09:58:07
6	009CALS.d	S06	2023-05-12 10:00:58
7	010CALS.d	S07	2023-05-12 10:03:48
8	011CALS.d	S08	2023-05-12 10:06:33

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0000	P	12.6
2	☐	1.000	1.093	821.14	0.0007	P	6.9
3	☐	50.000	54.526	39635.97	0.0356	P	1.6
4	☐	125.000	136.327	98285.61	0.0890	P	0.4
5	☐	250.000	258.859	188166.89	0.1689	P	0.7
6	☐	500.000	512.670	366408.90	0.3345	P	0.3
7	☐	1000.000	989.808	703858.28	0.6457	P	1.1
8	☐			312.23	0.0003	P	16.0

$$y = 6.5237\text{E-}004 * x + 2.3501\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.01366$$

$$BEC = 0.03602$$

Weight: <None>

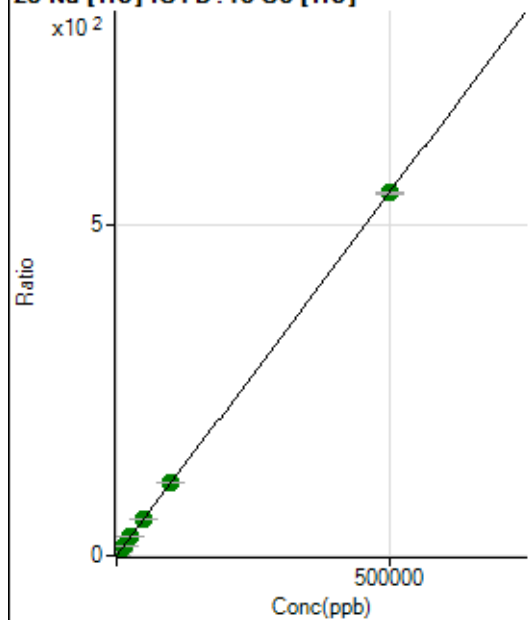
Min Conc: 0

12 C [No Gas] No available calibration points

	Rj 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	7143.94	0.0249	P	2.7
2	☐	500.000	504.823	165686.88	0.5805	P	0.2
3	☐	5000.000	5303.736	1646531.07	5.8615	A	0.6
4	☐	12500.000	13015.304	3935168.97	14.3479	A	1.0
5	☐	25000.000	25873.493	7653520.93	28.4981	A	0.3
6	☐	50000.000	50857.768	14951185.47	55.9927	A	0.5
7	☐	100000.00	100474.40	29768122.89	110.5947	A	0.4
8	☐	500000.00	499759.74	133680958.0	549.9989	A	0.4

$$y = 0.0011 * x + 0.0249$$

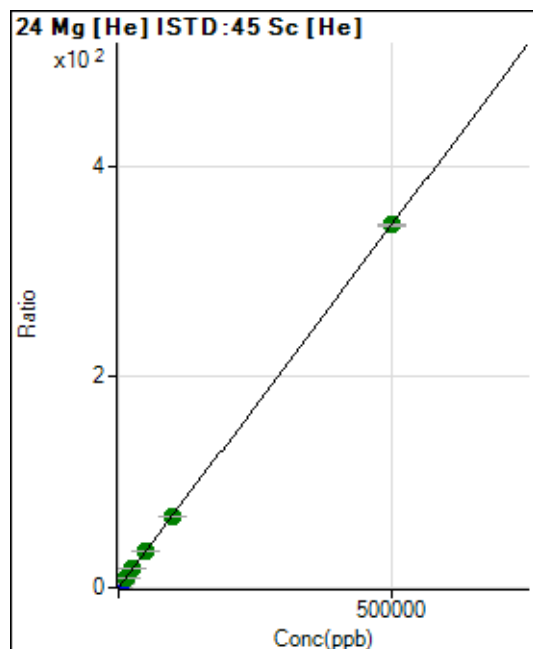
$$R = 1.0000$$

$$DL = 1.867$$

$$BEC = 22.63$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	877.81	0.0031	P	8.8
2	☐	500.000	503.557	99707.87	0.3493	P	0.5
3	☐	5000.000	5337.930	1031880.88	3.6735	P	0.2
4	☐	12500.000	13029.554	2458116.61	8.9623	A	0.3
5	☐	25000.000	25570.583	4722834.06	17.5855	A	0.6
6	☐	50000.000	50211.172	9219792.85	34.5286	A	0.5
7	☐	100000.00	98683.818	18265090.01	67.8586	A	0.4
8	☐	500000.00	500196.96	83594564.31	343.9415	A	0.9

$$y = 6.8761\text{E-}004 * x + 0.0031$$

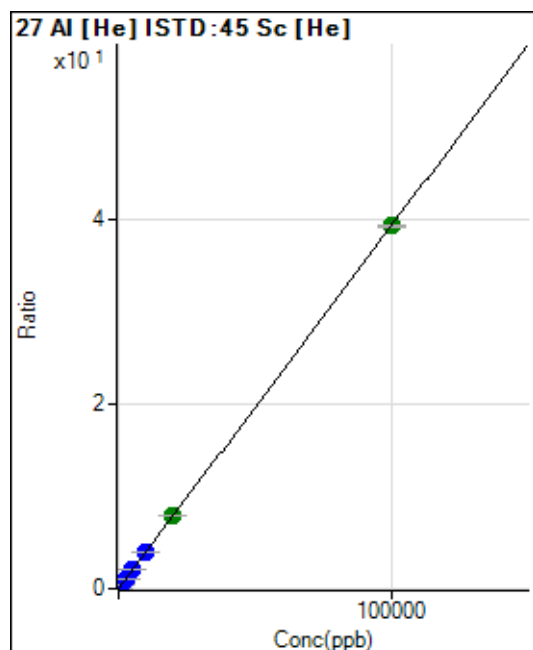
$$R = 1.0000$$

$$DL = 1.179$$

$$BEC = 4.451$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0002	P	0.3
2	☐	20.000	20.529	2353.54	0.0082	P	7.1
3	☐	1000.000	1080.640	119386.27	0.4250	P	0.7
4	☐	2500.000	2663.242	287214.72	1.0472	P	0.7
5	☐	5000.000	5237.351	553016.24	2.0592	P	0.5
6	☐	10000.000	10257.297	1076826.84	4.0327	P	0.4
7	☐	20000.000	20091.673	2126173.75	7.8990	A	0.9
8	☐	100000.00	99939.181	9549590.69	39.2904	A	0.7

$$y = 3.9314\text{E-}004 * x + 1.7432\text{E-}004$$

$$R = 1.0000$$

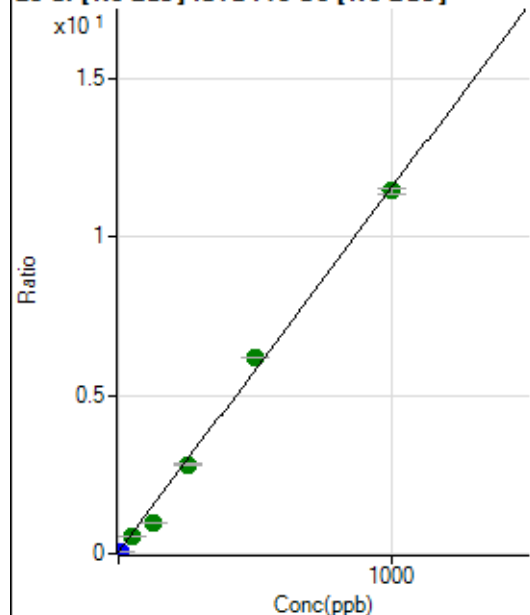
$$DL = 0.003814$$

$$BEC = 0.4434$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	200498.31	0.0630	P	0.9
2	☐	10.000	1.018	235767.48	0.0747	P	1.4
3	☐	50.000	42.979	1711699.91	0.5568	A	1.1
4	☐	125.000	79.665	2968458.63	0.9782	A	0.5
5	☐	250.000	238.642	8335006.12	2.8046	A	1.9
6	☐	500.000	535.002	18415389.03	6.2092	A	0.2
7	☐	1000.000	991.446	34167860.33	11.4529	A	1.7
8	☐			729240.51	0.2620	P	9.6

$$y = 0.0115 * x + 0.0630$$

$$R = 0.9981$$

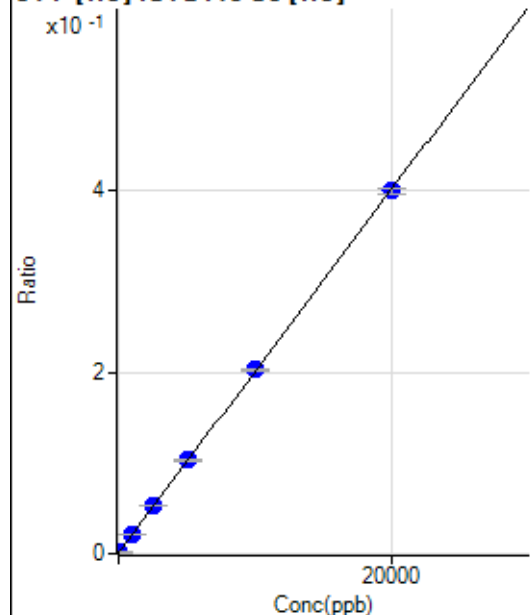
$$DL = 0.1415$$

$$BEC = 5.487$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-11.938	172.23	0.0006	P	20.4
2	☐	0.000	11.938	307.78	0.0011	P	15.5
3	☐	1000.000	1035.828	6065.70	0.0216	P	0.9
4	☐	2500.000	2612.661	14587.03	0.0532	P	1.9
5	☐	5000.000	5127.421	27814.18	0.1036	P	1.5
6	☐	10000.000	10066.294	54078.39	0.2025	P	0.9
7	☐	20000.000	19919.124	107647.00	0.3999	P	1.6
8	☐			173.34	0.0007	P	33.7

$$y = 2.0036E-005 * x + 8.3941E-004$$

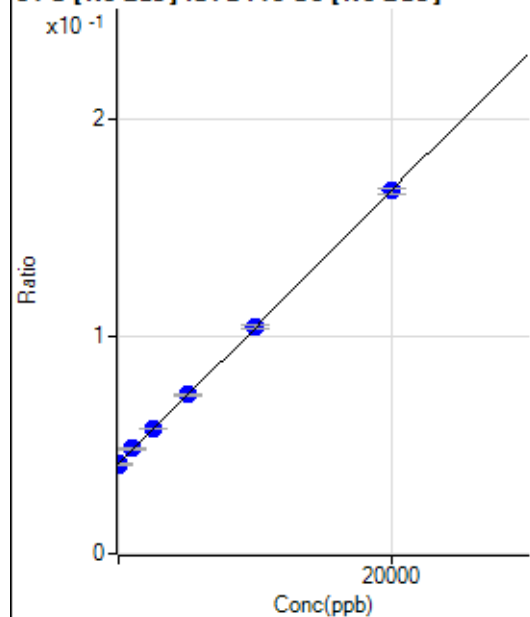
$$R = 1.0000$$

$$DL = 21.71$$

$$BEC = 41.89$$

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	-14.336	130518.19	0.0410	P	0.6
2	☐	0.000	14.336	130034.00	0.0412	P	1.1
3	☐	1000.000	1122.318	148145.08	0.0482	P	2.0
4	☐	2500.000	2569.524	173909.11	0.0573	P	1.0
5	☐	5000.000	5108.387	217886.26	0.0733	P	1.1
6	☐	10000.000	10035.234	309489.38	0.1044	P	1.1
7	☐	20000.000	19940.480	497530.53	0.1668	P	1.4
8	☐			114461.05	0.0411	P	1.3

$$y = 6.3007E-006 * x + 0.0411$$

$$R = 1.0000$$

$$DL = 169.4$$

$$BEC = 6527$$

Weight: <None>

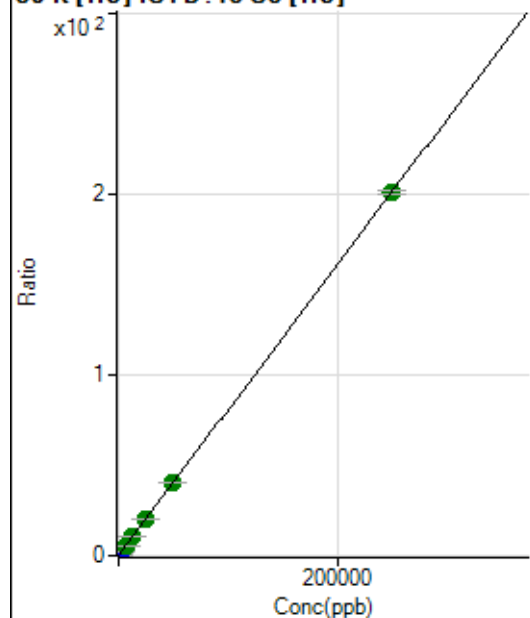
Min Conc: 0

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	42230.67	0.1472	P	0.8
2	☐	500.000	527.534	163100.69	0.5714	P	0.3
3	☐	2500.000	2809.578	675928.06	2.4063	P	0.4
4	☐	6250.000	6620.883	1500528.69	5.4708	A	1.5
5	☐	12500.000	13002.715	2847255.06	10.6021	A	0.8
6	☐	25000.000	25469.654	5507644.29	20.6261	A	0.7
7	☐	50000.000	50610.059	10992725.95	40.8403	A	0.2
8	☐	250000.00	249793.46	48851217.05	200.9939	A	1.0

$$y = 8.0405E-004 * x + 0.1472$$

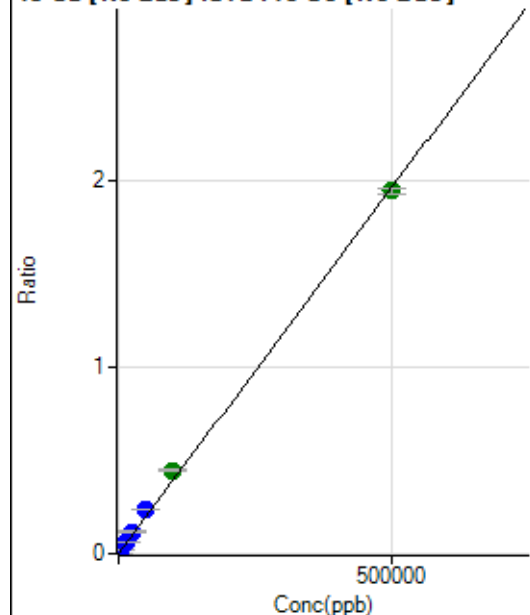
$$R = 1.0000$$

$$DL = 4.494$$

$$BEC = 183.1$$

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	82.22	0.0000	P	22.6
2	☐	500.000	548.396	6878.28	0.0022	P	0.3
3	☐	5000.000	6240.905	75431.81	0.0245	P	2.2
4	☐	12500.000	15489.057	184691.10	0.0609	P	1.2
5	☐	25000.000	30221.530	352881.19	0.1187	P	1.5
6	☐	50000.000	59452.630	692678.57	0.2336	P	0.1
7	☐	100000.00	113331.71	1328280.77	0.4452	A	2.4
8	☐	500000.00	496040.13	5427716.93	1.9484	A	1.8

$$y = 3.9279\text{E-}006 * x + 2.5856\text{E-}005$$

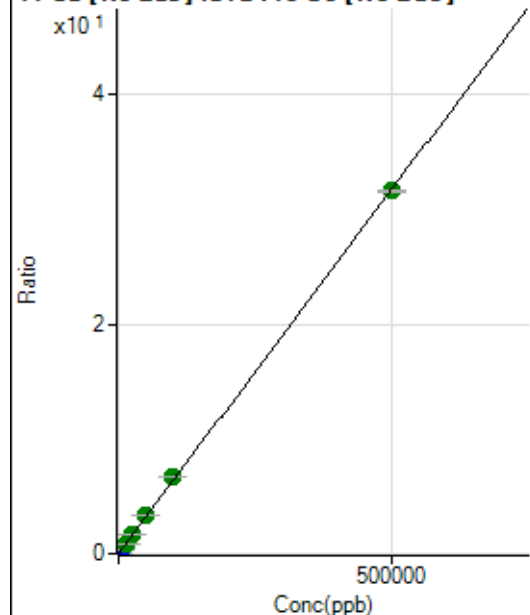
$$R = 0.9995$$

$$DL = 4.459$$

$$BEC = 6.583$$

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	5041.58	0.0016	P	2.8
2	☐	500.000	543.002	113564.14	0.0360	P	0.7
3	☐	5000.000	5936.781	1161401.73	0.3778	P	0.9
4	☐	12500.000	13897.715	2677012.28	0.8822	A	1.4
5	☐	25000.000	27044.448	5098200.95	1.7153	A	1.0
6	☐	50000.000	53951.426	10144163.16	3.4203	A	0.6
7	☐	100000.00	105785.34	20003320.84	6.7048	A	1.6
8	☐	500000.00	498301.21	87966579.95	31.5769	A	0.4

$$y = 6.3366\text{E-}005 * x + 0.0016$$

$$R = 0.9999$$

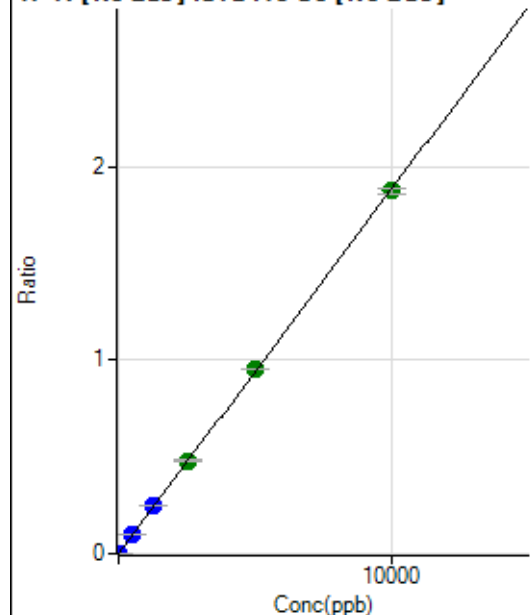
$$DL = 2.09$$

$$BEC = 25.01$$

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	67.78	0.0000	P	32.3
2	☐	5.000	4.659	2838.07	0.0009	P	3.7
3	☐	500.000	528.308	306230.55	0.0996	P	0.7
4	☐	1250.000	1308.569	748549.32	0.2467	P	1.1
5	☐	2500.000	2554.102	1430870.24	0.4815	A	2.0
6	☐	5000.000	5047.423	2821840.51	0.9515	A	0.2
7	☐	10000.000	9954.027	5598060.13	1.8763	A	1.4
8	☐			827.81	0.0003	P	4.5

$$y = 1.8850E-004 * x + 2.1315E-005$$

$$R = 1.0000$$

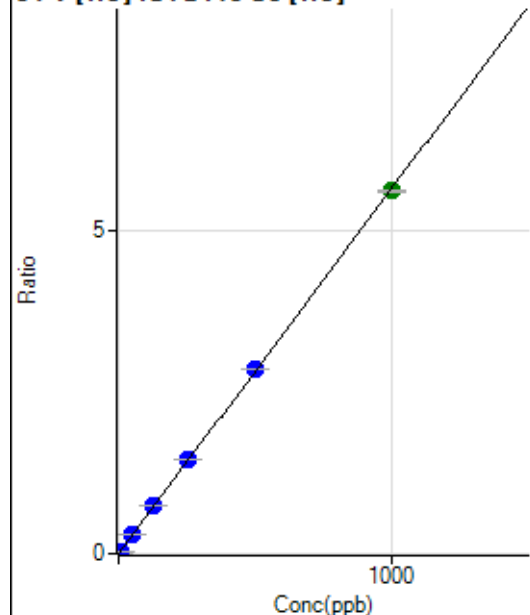
$$DL = 0.1095$$

$$BEC = 0.1131$$

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	4.45	0.0000	P	86.6
2	☐	5.000	5.006	8085.56	0.0283	P	0.7
3	☐	50.000	52.585	83533.68	0.2974	P	0.4
4	☐	125.000	130.316	202119.17	0.7370	P	0.9
5	☐	250.000	256.449	389475.83	1.4502	P	0.5
6	☐	500.000	506.443	764730.50	2.8639	P	0.3
7	☐	1000.000	994.372	1513530.85	5.6232	A	0.8
8	☐			450.01	0.0019	P	9.2

$$y = 0.0057 * x + 1.5485E-005$$

$$R = 0.9999$$

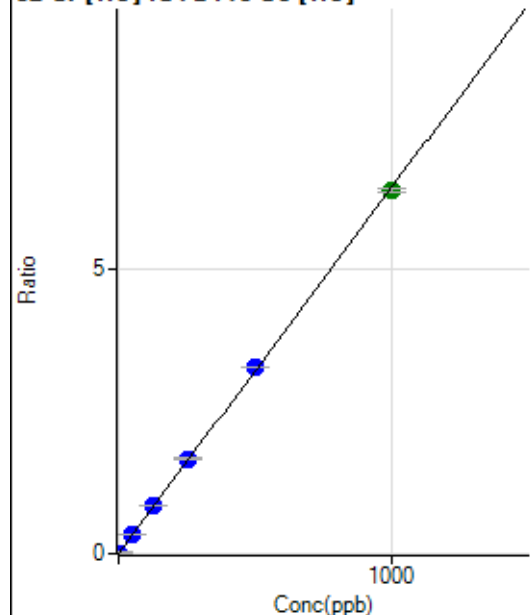
$$DL = 0.007114$$

$$BEC = 0.002738$$

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	705.58	0.0025	P	8.2
2	☐	2.000	2.235	4795.25	0.0168	P	2.7
3	☐	50.000	53.675	97406.13	0.3468	P	0.8
4	☐	125.000	132.415	233637.61	0.8519	P	0.9
5	☐	250.000	259.362	447472.02	1.6662	P	0.5
6	☐	500.000	510.262	874673.12	3.2757	P	0.2
7	☐	1000.000	991.418	1712416.69	6.3622	A	1.0
8	☐			12539.76	0.0516	P	2.8

$$y = 0.0064 * x + 0.0025$$

$$R = 0.9999$$

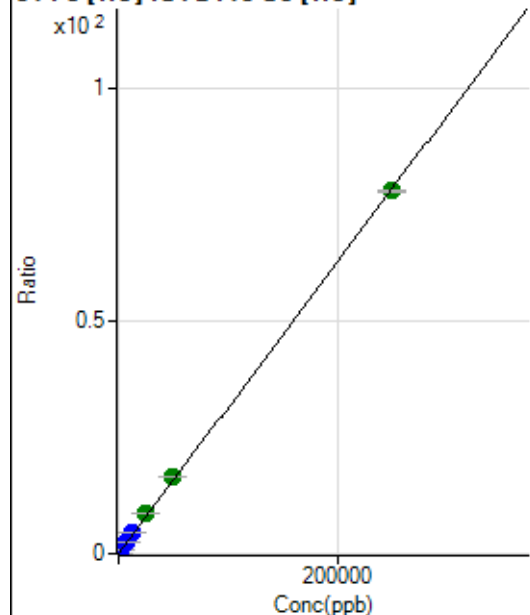
$$DL = 0.09465$$

$$BEC = 0.3834$$

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	1342.30	0.0047	P	5.5
2	☐	50.000	59.119	6609.28	0.0232	P	0.7
3	☐	2500.000	2990.389	263824.14	0.9392	P	0.4
4	☐	6250.000	7378.805	633742.41	2.3107	P	0.5
5	☐	12500.000	14366.309	1207022.78	4.4944	P	0.1
6	☐	25000.000	27326.797	2281594.98	8.5447	A	0.6
7	☐	50000.000	52813.564	4443767.96	16.5097	A	0.4
8	☐	250000.00	249078.16	18920220.41	77.8453	A	0.7

$$y = 3.1251E-004 * x + 0.0047$$

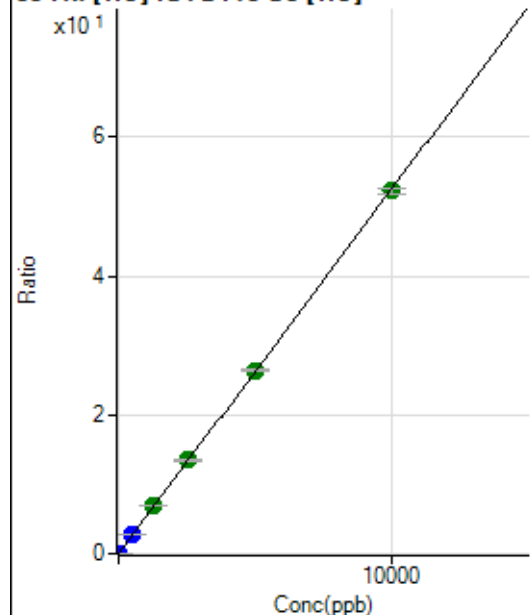
$$R = 0.9999$$

$$DL = 2.474$$

$$BEC = 14.97$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	95.56	0.0003	P	19.3
2	☐	1.000	1.146	1812.35	0.0063	P	4.4
3	☐	500.000	536.018	790620.68	2.8146	P	0.5
4	☐	1250.000	1312.305	1889854.69	6.8904	A	0.3
5	☐	2500.000	2565.214	3617150.29	13.4687	A	0.8
6	☐	5000.000	5038.278	7063501.56	26.4532	A	0.6
7	☐	10000.000	9954.969	14068076.87	52.2677	A	1.5
8	☐			6613.72	0.0272	P	1.9

$$y = 0.0053 * x + 3.3317E-004$$

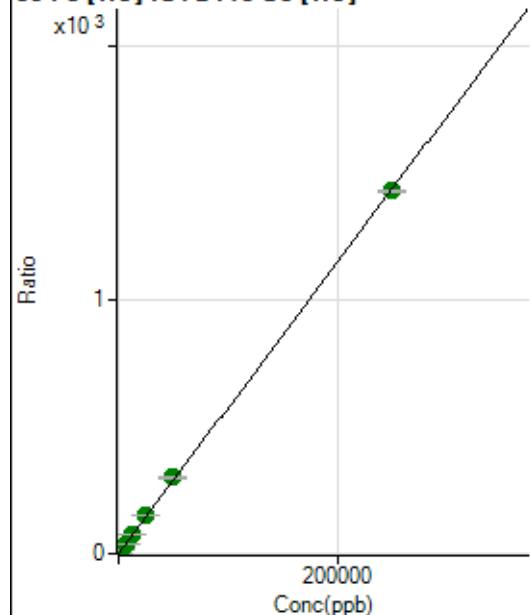
$$R = 1.0000$$

$$DL = 0.03672$$

$$BEC = 0.06346$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	9190.66	0.0320	P	2.1
2	☐	50.000	56.283	101384.09	0.3552	P	0.8
3	☐	2500.000	2792.653	4512872.78	16.0658	A	0.6
4	☐	6250.000	6945.627	10945879.00	39.9098	A	0.8
5	☐	12500.000	13534.904	20878242.19	77.7416	A	0.4
6	☐	25000.000	26614.975	40811280.78	152.8399	A	0.7
7	☐	50000.000	52360.942	80924736.57	300.6583	A	1.2
8	☐	250000.00	249294.25	347883265.9	1,431.335	A	0.6

$$y = 0.0057 * x + 0.0320$$

$$R = 0.9999$$

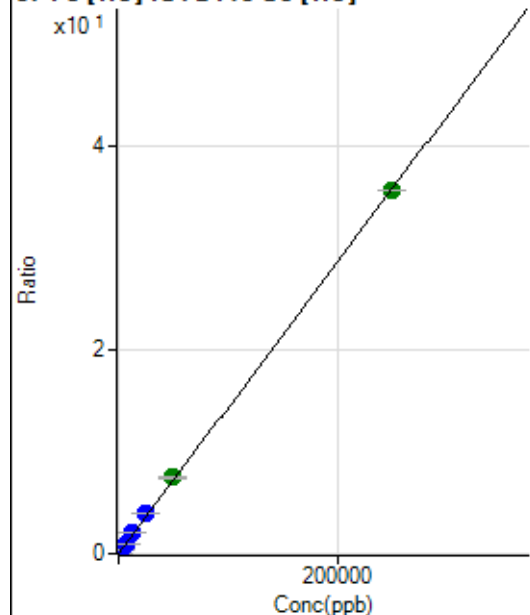
$$DL = 0.3446$$

$$BEC = 5.581$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	345.56	0.0012	P	12.4
2	☐	50.000	56.057	2634.70	0.0092	P	2.2
3	☐	2500.000	2906.983	117243.91	0.4174	P	0.3
4	☐	6250.000	7196.649	282920.15	1.0315	P	0.6
5	☐	12500.000	14091.652	542122.51	2.0187	P	0.7
6	☐	25000.000	27536.350	1052997.07	3.9435	P	0.4
7	☐	50000.000	52248.779	2013732.58	7.4815	A	1.7
8	☐	250000.00	249189.28	8671407.51	35.6769	A	0.1

$$y = 1.4317E-004 * x + 0.0012$$

$$R = 0.9999$$

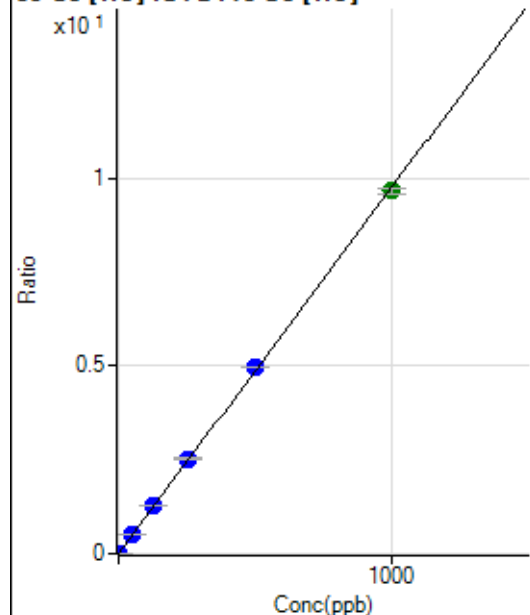
$$DL = 3.127$$

$$BEC = 8.416$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0001	P	43.4
2	☐	1.000	1.058	2975.88	0.0104	P	3.3
3	☐	50.000	54.312	148684.30	0.5293	P	0.4
4	☐	125.000	132.944	355314.22	1.2955	P	0.5
5	☐	250.000	259.541	679184.58	2.5290	P	0.5
6	☐	500.000	510.283	1327666.39	4.9722	P	0.3
7	☐	1000.000	991.264	2599581.70	9.6587	A	1.7
8	☐			2695.82	0.0111	P	1.0

$$y = 0.0097 * x + 1.1614E-004$$

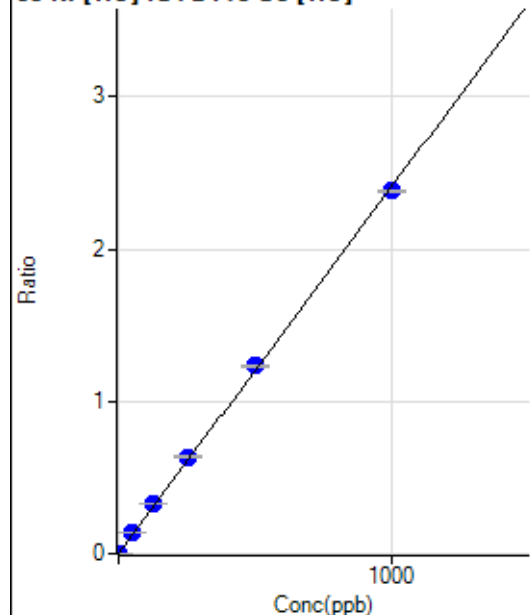
$$R = 0.9999$$

$$DL = 0.01553$$

$$BEC = 0.01192$$

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	61.11	0.0002	P	21.8
2	☐	1.000	1.090	810.03	0.0028	P	5.1
3	☐	50.000	55.968	37907.77	0.1350	P	0.3
4	☐	125.000	136.320	90066.90	0.3284	P	0.4
5	☐	250.000	264.343	170960.14	0.6366	P	0.6
6	☐	500.000	511.176	328651.65	1.2308	P	0.3
7	☐	1000.000	989.113	640967.60	2.3814	P	0.7
8	☐			1965.70	0.0081	P	1.7

$$y = 0.0024 * x + 2.1297E-004$$

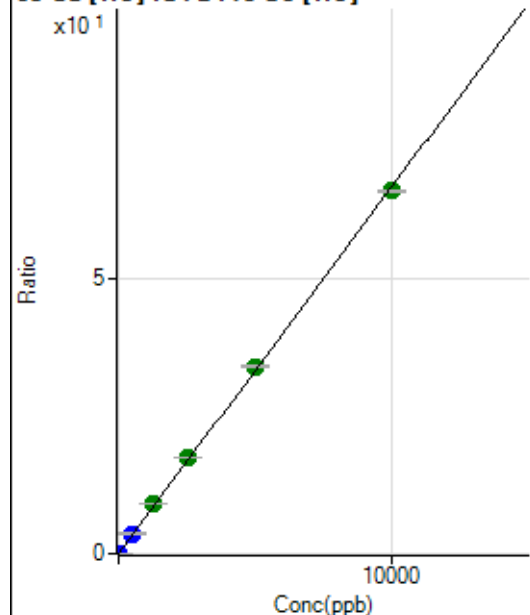
$$R = 0.9998$$

$$DL = 0.05782$$

$$BEC = 0.08846$$

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	571.13	0.0020	P	6.2
2	☐	2.000	2.162	4672.99	0.0164	P	2.9
3	☐	500.000	549.636	1027651.64	3.6585	P	0.6
4	☐	1250.000	1348.414	2460774.04	8.9724	A	1.1
5	☐	2500.000	2623.402	4687584.44	17.4543	A	0.6
6	☐	5000.000	5106.817	9071973.89	33.9752	A	0.9
7	☐	10000.000	9900.957	17729088.07	65.8684	A	0.6
8	☐			2631.37	0.0108	P	4.0

$$y = 0.0067 * x + 0.0020$$

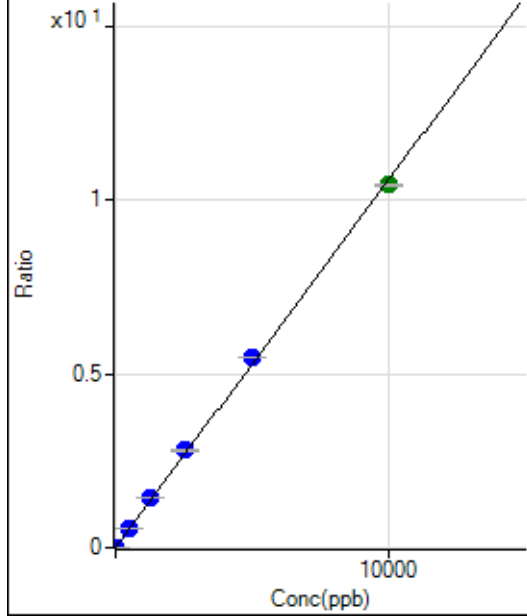
$$R = 0.9998$$

$$DL = 0.05595$$

$$BEC = 0.2993$$

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	134.18	0.0005	P	21.7
2	☐	2.000	2.204	799.56	0.0028	P	4.1
3	☐	500.000	545.526	162371.48	0.5781	P	0.7
4	☐	1250.000	1348.617	391749.97	1.4283	P	0.3
5	☐	2500.000	2644.570	752066.59	2.8004	P	0.9
6	☐	5000.000	5159.517	1458783.56	5.4632	P	0.1
7	☐	10000.000	9869.495	2812690.70	10.4499	A	0.7
8	☐			7671.59	0.0316	P	1.5

$$y = 0.0011 * x + 4.6780E-004$$

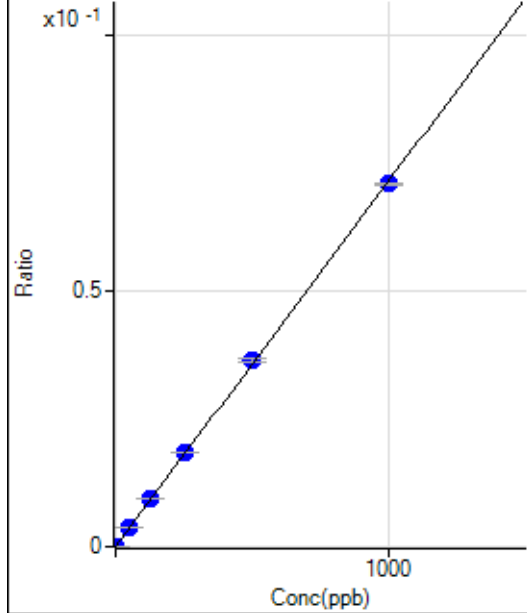
$$R = 0.9997$$

$$DL = 0.2874$$

$$BEC = 0.4418$$

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	1.11	0.0000	P	173.
2	☐	1.000	0.887	190.00	0.0001	P	8.1
3	☐	50.000	52.823	11004.17	0.0038	P	1.0
4	☐	125.000	129.724	26175.32	0.0093	P	0.5
5	☐	250.000	257.745	51628.24	0.0184	P	0.6
6	☐	500.000	508.684	100799.13	0.0364	P	1.8
7	☐	1000.000	992.990	198395.05	0.0710	P	0.3
8	☐			51.11	0.0000	P	19.8

$$y = 7.1470E-005 * x + 3.6860E-007$$

$$R = 0.9999$$

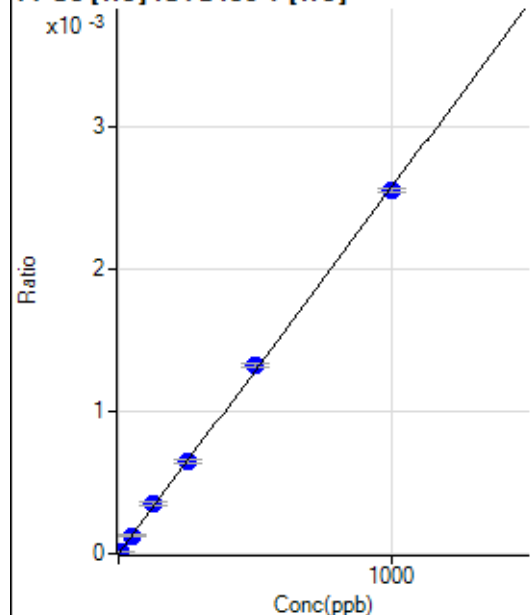
$$DL = 0.0268$$

$$BEC = 0.005157$$

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	5.516	42.22	0.0000	P	19.7
3	☐	50.000	48.678	364.45	0.0001	P	6.1
4	☐	125.000	136.675	991.15	0.0004	P	8.7
5	☐	250.000	254.227	1830.13	0.0007	P	4.0
6	☐	500.000	514.287	3663.82	0.0013	P	1.2
7	☐	1000.000	990.404	7111.76	0.0025	P	1.2
8	☐			1.11	0.0000	P	173.

$$y = 2.5687\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

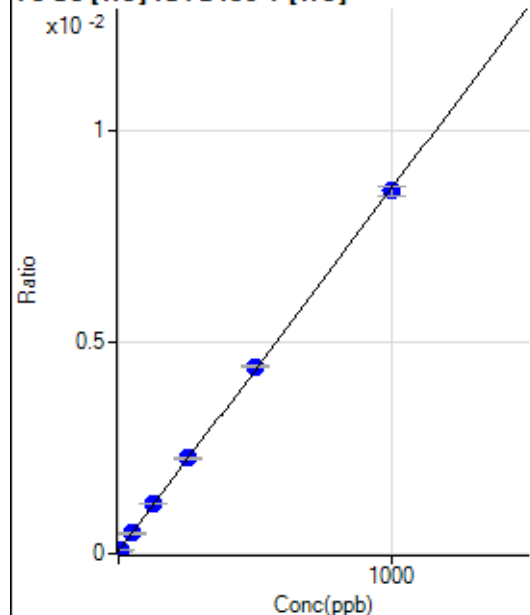
$$DL = 0$$

$$BEC = 0$$

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	170.00	0.0001	P	11.3
2	☐	5.000	6.321	330.01	0.0001	P	2.8
3	☐	50.000	51.004	1437.86	0.0005	P	9.5
4	☐	125.000	130.772	3321.52	0.0012	P	2.9
5	☐	250.000	255.849	6300.27	0.0022	P	0.4
6	☐	500.000	508.858	12240.72	0.0044	P	1.5
7	☐	1000.000	993.331	23938.32	0.0086	P	2.5
8	☐			181.11	0.0001	P	9.8

$$y = 8.5645\text{E-}006 * x + 5.6649\text{E-}005$$

$$R = 0.9999$$

$$DL = 2.236$$

$$BEC = 6.614$$

Weight: <None>

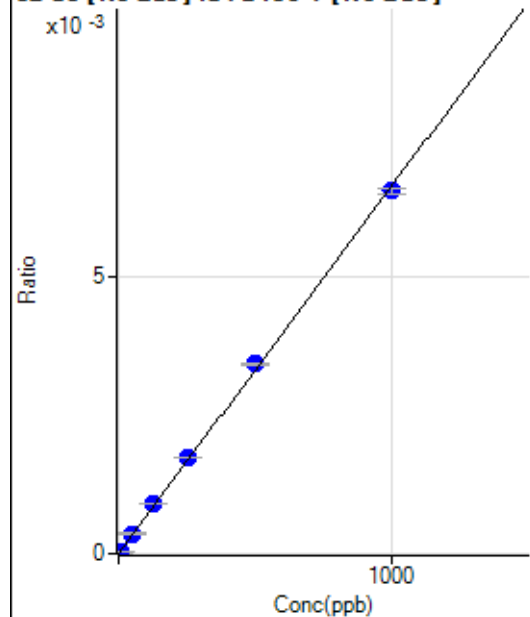
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			35933.76		P	2.3
2	☐			35742.15		P	1.7
3	☐			35523.93		P	0.7
4	☐			34394.65		P	0.1
5	☐			33157.30		P	1.2
6	☐			32802.06		P	1.7
7	☐			32814.29		P	0.8
8	☐			31544.91		P	2.6

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.67		P	31.2
2	☐			77.78		P	10.8
3	☐			60.00		P	19.2
4	☐			75.55		P	9.2
5	☐			50.00		P	23.1
6	☐			60.00		P	9.6
7	☐			47.78		P	47.5
8	☐			56.67		P	15.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19.17	0.0000	P	68.4
2	☐	5.000	4.974	401.44	0.0000	P	4.0
3	☐	50.000	53.921	4069.56	0.0004	P	3.6
4	☐	125.000	134.528	9989.47	0.0009	P	0.8
5	☐	250.000	260.896	19331.57	0.0017	P	1.1
6	☐	500.000	516.396	38108.48	0.0034	P	0.5
7	☐	1000.000	987.691	73841.63	0.0066	P	1.6
8	☐			193.67	0.0000	P	17.0

$$y = 6.6419\text{E-}006 * x + 1.6476\text{E-}006$$

$$R = 0.9997$$

$$DL = 0.5091$$

$$BEC = 0.2481$$

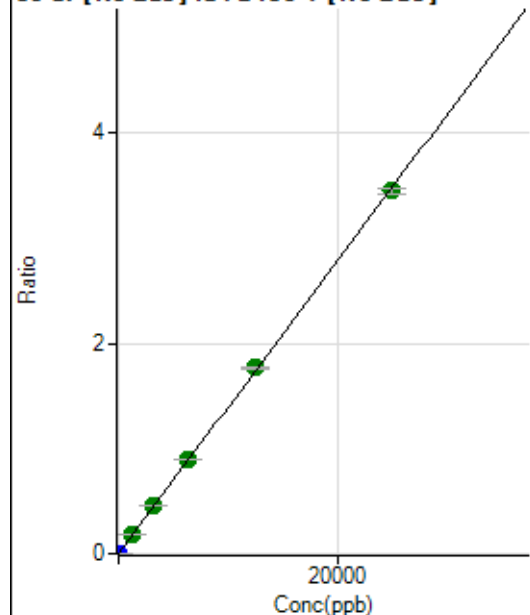
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			83.33		P	13.9
2	☐			94.45		P	4.1
3	☐			66.67		P	40.9
4	☐			80.00		P	11.0
5	☐			84.45		P	4.6
6	☐			78.89		P	24.8
7	☐			103.33		P	30.8
8	☐			104.44		P	11.2

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	126.67	0.0000	P	10.1
2	☐	1.000	1.011	1750.12	0.0002	P	2.9
3	☐	1250.000	1318.989	2070992.66	0.1831	A	1.5
4	☐	3125.000	3295.497	5104520.62	0.4574	A	0.4
5	☐	6250.000	6422.191	9935189.30	0.8914	A	0.6
6	☐	12500.000	12709.136	19589520.40	1.7640	A	0.8
7	☐	25000.000	24827.623	38778944.42	3.4460	A	1.9
8	☐			9505.38	0.0009	P	5.6

$$y = 1.3880\text{E-}004 * x + 1.0914\text{E-}005$$

$$R = 0.9999$$

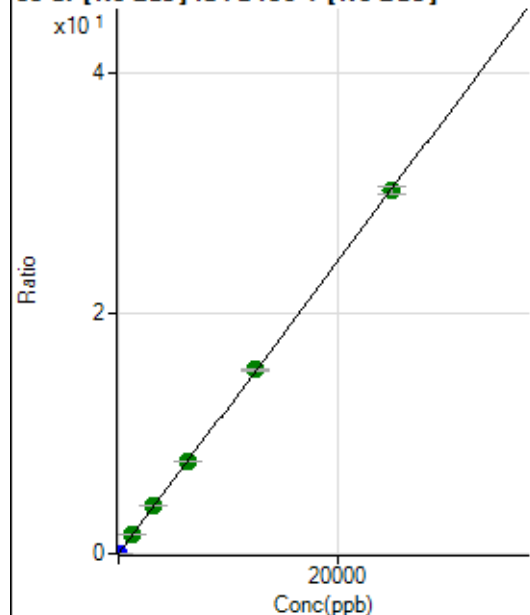
$$DL = 0.0238$$

$$BEC = 0.07863$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	107.78	0.0000	P	31.9
2	☐	1.000	0.997	14100.20	0.0012	P	2.3
3	☐	1250.000	1321.909	18134546.40	1.6032	A	1.5
4	☐	3125.000	3265.965	44202504.90	3.9610	A	0.8
5	☐	6250.000	6342.025	85729307.06	7.6917	A	0.5
6	☐	12500.000	12625.257	170048318.5	15.3122	A	0.5
7	☐	25000.000	24893.149	339727012.7	30.1909	A	2.2
8	☐			82627.18	0.0082	P	2.8

$$y = 0.0012 * x + 9.2923\text{E-}006$$

$$R = 1.0000$$

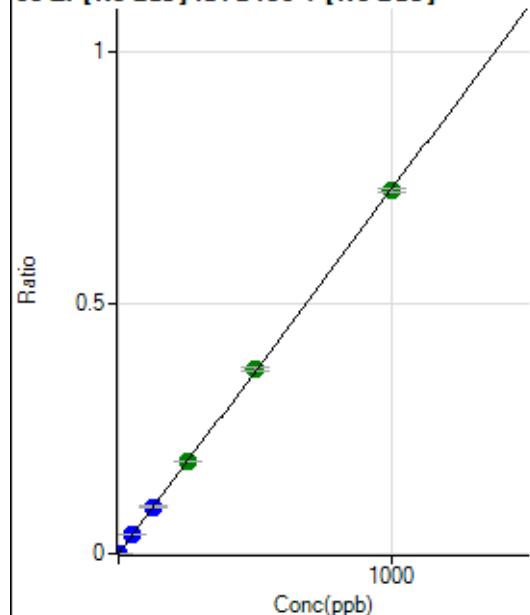
$$DL = 0.007324$$

$$BEC = 0.007662$$

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	327.78	0.0000	P	11.0
2	☐	1.000	0.930	8152.33	0.0007	P	2.5
3	☐	50.000	51.326	422350.07	0.0373	P	1.3
4	☐	125.000	129.126	1047809.80	0.0939	P	0.2
5	☐	250.000	253.254	2052288.09	0.1841	A	0.5
6	☐	500.000	506.162	4086019.59	0.3680	A	1.9
7	☐	1000.000	995.524	8144391.62	0.7237	A	1.2
8	☐			1684.56	0.0002	P	9.5

$$y = 7.2694\text{E-}004 * x + 2.8235\text{E-}005$$

$$R = 1.0000$$

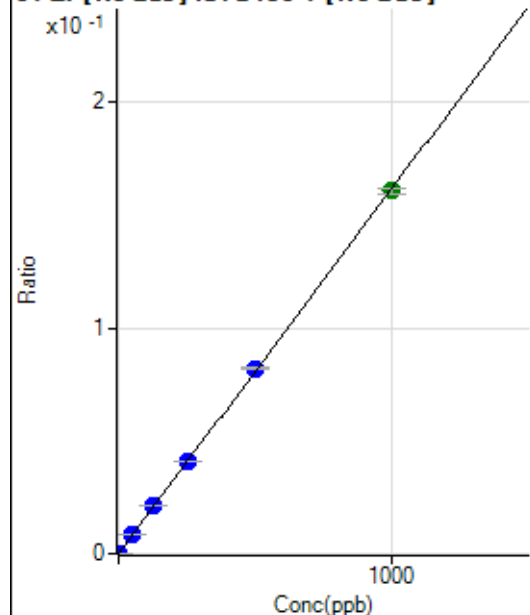
$$DL = 0.01277$$

$$BEC = 0.03884$$

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	55.55	0.0000	P	13.1
2	☐	1.000	0.874	1690.11	0.0001	P	3.9
3	☐	50.000	51.703	94508.26	0.0084	P	2.2
4	☐	125.000	129.620	233682.01	0.0209	P	0.3
5	☐	250.000	253.516	456437.83	0.0410	P	0.3
6	☐	500.000	507.102	909578.14	0.0819	P	1.3
7	☐	1000.000	994.907	1808405.34	0.1607	A	1.4
8	☐			367.79	0.0000	P	13.2

$$y = 1.6152\text{E-}004 * x + 4.7871\text{E-}006$$

$$R = 0.9999$$

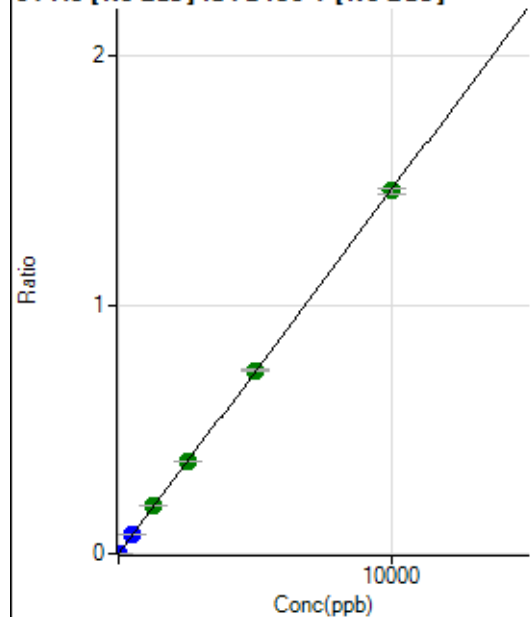
$$DL = 0.01168$$

$$BEC = 0.02964$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	127.78	0.0000	P	23.0
2	☐	5.000	5.644	9692.18	0.0008	P	0.7
3	☐	500.000	524.227	868141.87	0.0768	P	1.5
4	☐	1250.000	1315.296	2148779.67	0.1926	A	0.8
5	☐	2500.000	2532.668	4132556.57	0.3708	A	0.6
6	☐	5000.000	5037.641	8189391.55	0.7375	A	1.0
7	☐	10000.000	9963.639	16414010.17	1.4586	A	1.3
8	☐			3379.31	0.0003	P	4.1

$$y = 1.4639\text{E-}004 * x + 1.0997\text{E-}005$$

$$R = 1.0000$$

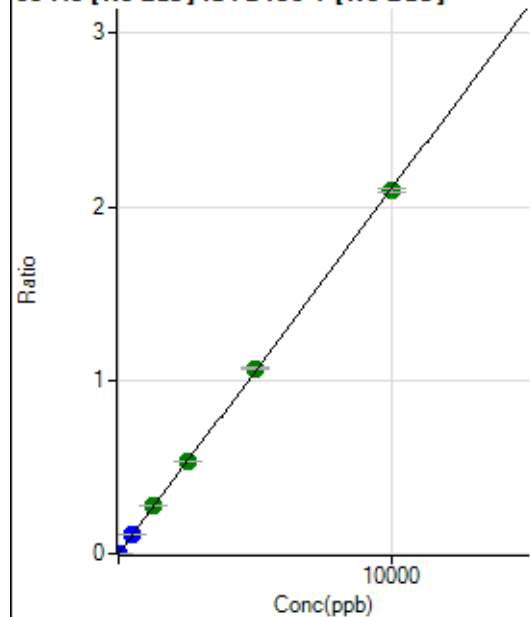
$$DL = 0.05182$$

$$BEC = 0.07512$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	72.22	0.0000	P	16.9
2	☐	5.000	4.811	11788.16	0.0010	P	1.7
3	☐	500.000	524.831	1248628.07	0.1104	P	1.7
4	☐	1250.000	1310.331	3075457.77	0.2756	A	1.4
5	☐	2500.000	2542.819	5961037.48	0.5348	A	0.2
6	☐	5000.000	5075.863	11855296.63	1.0676	A	1.0
7	☐	10000.000	9942.581	23533346.32	2.0912	A	1.1
8	☐			3610.48	0.0004	P	11.3

$$y = 2.1032\text{E-}004 * x + 6.2249\text{E-}006$$

$$R = 0.9999$$

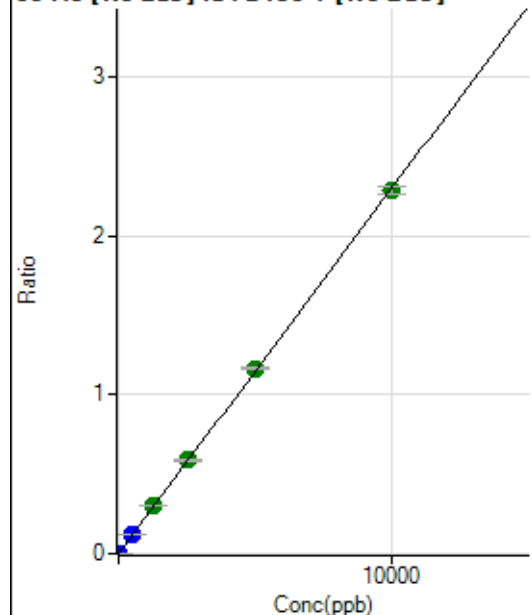
$$DL = 0.015$$

$$BEC = 0.0296$$

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	80.00	0.0000	P	29.8
2	☐	5.000	4.898	13097.11	0.0011	P	2.1
3	☐	500.000	524.701	1362794.00	0.1205	P	1.5
4	☐	1250.000	1320.326	3383082.10	0.3032	A	0.3
5	☐	2500.000	2556.744	6543125.11	0.5871	A	0.8
6	☐	5000.000	5073.179	12934822.31	1.1648	A	1.6
7	☐	10000.000	9939.199	25680430.45	2.2821	A	2.0
8	☐			15278.10	0.0015	P	3.7

$$y = 2.2961E-004 * x + 6.8981E-006$$

$$R = 0.9999$$

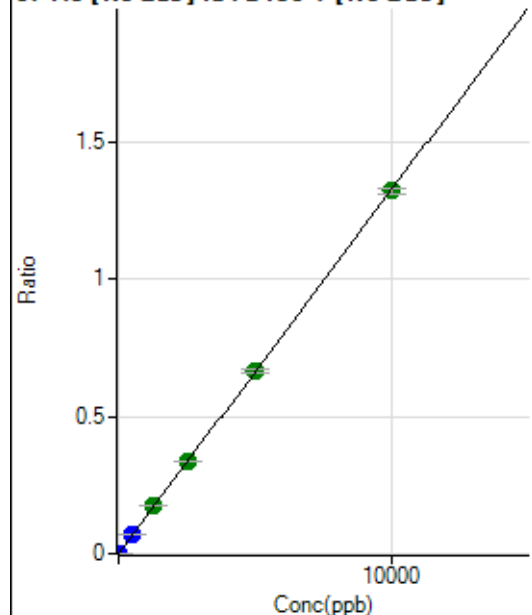
$$DL = 0.02685$$

$$BEC = 0.03004$$

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	21.11	0.0000	P	80.3
2	☐	5.000	4.642	7147.34	0.0006	P	3.9
3	☐	500.000	525.919	789062.84	0.0698	P	1.6
4	☐	1250.000	1307.652	1935593.95	0.1735	A	0.5
5	☐	2500.000	2528.500	3738155.78	0.3354	A	0.5
6	☐	5000.000	5030.854	7409974.19	0.6673	A	1.5
7	☐	10000.000	9968.946	14880333.39	1.3223	A	1.5
8	☐			2521.35	0.0003	P	8.0

$$y = 1.3264E-004 * x + 1.8122E-006$$

$$R = 1.0000$$

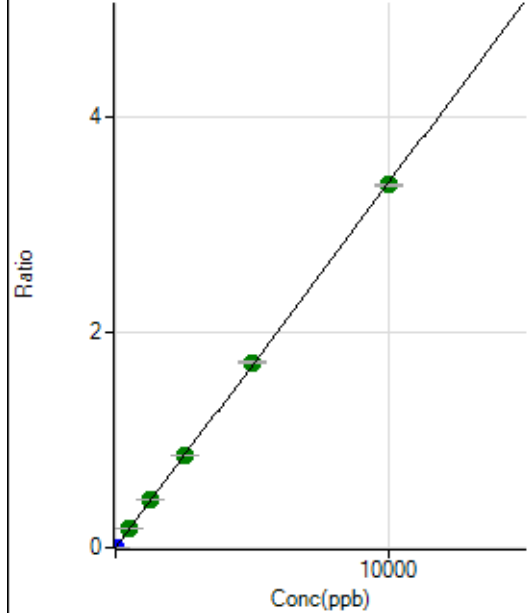
$$DL = 0.03292$$

$$BEC = 0.01366$$

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	17.78	0.0000	P	39.6
2	☐	5.000	4.844	18979.08	0.0016	P	1.1
3	☐	500.000	525.080	2008492.07	0.1776	A	1.5
4	☐	1250.000	1306.147	4929038.61	0.4417	A	0.6
5	☐	2500.000	2525.366	9518556.25	0.8540	A	0.6
6	☐	5000.000	5075.735	19060481.80	1.7165	A	1.3
7	☐	10000.000	9947.519	37857591.94	3.3639	A	0.8
8	☐			5790.10	0.0006	P	8.2

$$y = 3.3817E-004 * x + 1.5340E-006$$

$$R = 0.9999$$

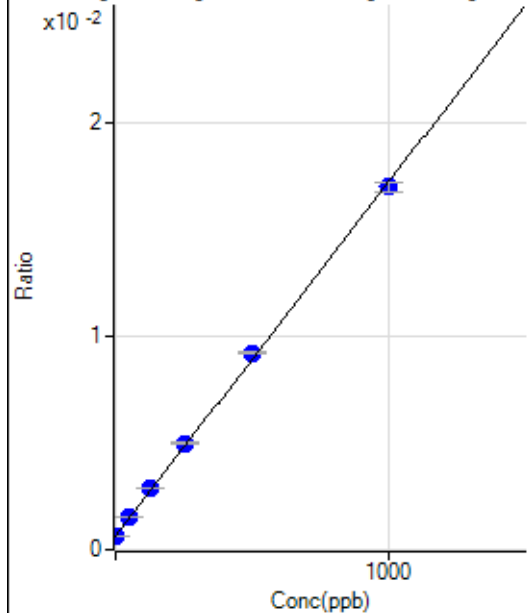
$$DL = 0.005385$$

$$BEC = 0.004536$$

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	5142.07	0.0006	P	2.2
2	☐	1.000	0.455	5089.83	0.0006	P	2.3
3	☐	50.000	53.751	12001.72	0.0015	P	2.5
4	☐	125.000	134.716	22248.24	0.0029	P	1.7
5	☐	250.000	262.655	38909.78	0.0050	P	1.4
6	☐	500.000	517.288	71587.33	0.0092	P	1.3
7	☐	1000.000	986.791	134307.44	0.0170	P	2.5
8	☐			4527.42	0.0006	P	1.2

$$y = 1.6550E-005 * x + 6.3779E-004$$

$$R = 0.9997$$

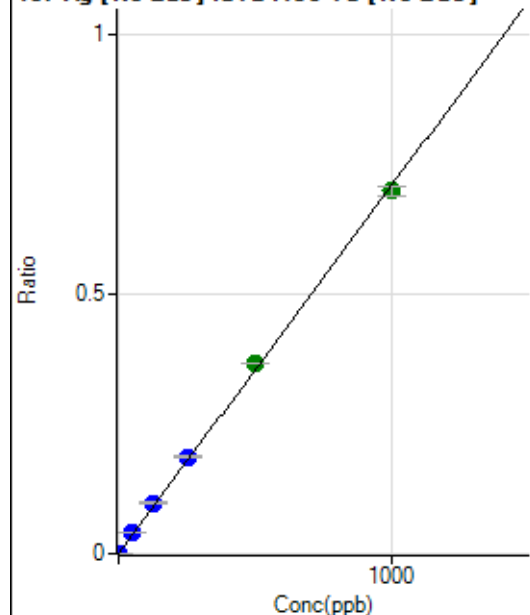
$$DL = 2.585$$

$$BEC = 38.54$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	5.4
2	☐	1.000	1.073	6060.21	0.0008	P	2.3
3	☐	50.000	56.201	312907.29	0.0398	P	2.0
4	☐	125.000	138.356	760598.91	0.0980	P	0.9
5	☐	250.000	263.595	1457736.87	0.1867	P	0.7
6	☐	500.000	517.285	2851901.28	0.3665	A	0.4
7	☐	1000.000	985.979	5528685.20	0.6985	A	2.5
8	☐			2120.18	0.0003	P	9.4

$$y = 7.0842\text{E-}004 * x + 8.2687\text{E-}006$$

$$R = 0.9996$$

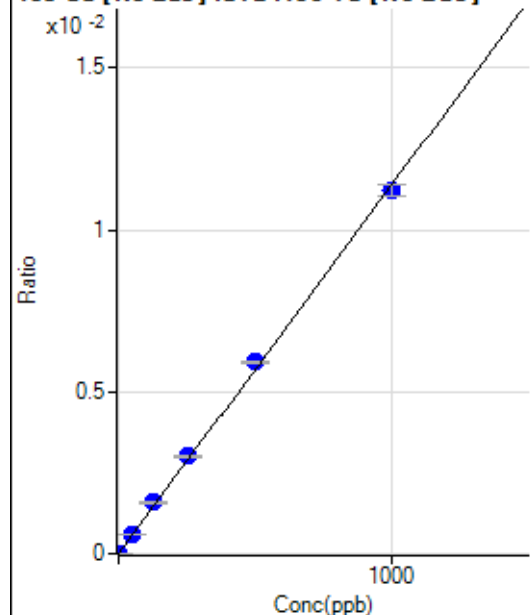
$$DL = 0.001894$$

$$BEC = 0.01167$$

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	10.00	0.0000	P	58.6
2	☐	1.000	1.017	101.11	0.0000	P	20.7
3	☐	50.000	54.088	4843.08	0.0006	P	1.8
4	☐	125.000	138.526	12233.00	0.0016	P	1.9
5	☐	250.000	264.726	23512.48	0.0030	P	2.7
6	☐	500.000	519.604	45990.40	0.0059	P	1.2
7	☐	1000.000	984.621	88623.82	0.0112	P	3.3
8	☐			47.78	0.0000	P	23.6

$$y = 1.1372\text{E-}005 * x + 1.2443\text{E-}006$$

$$R = 0.9995$$

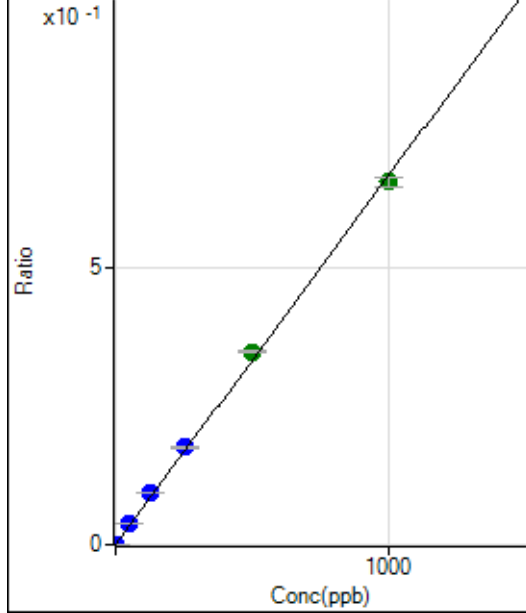
$$DL = 0.1923$$

$$BEC = 0.1094$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3.33	0.0000	P	100.
2	☐	1.000	1.087	5732.30	0.0007	P	4.6
3	☐	50.000	56.737	298041.97	0.0379	P	1.5
4	☐	125.000	139.068	721369.71	0.0930	P	0.9
5	☐	250.000	263.915	1377182.15	0.1764	P	0.8
6	☐	500.000	522.278	2717015.78	0.3491	A	1.1
7	☐	1000.000	983.287	5202698.98	0.6573	A	2.7
8	☐			1919.03	0.0003	P	5.5

$$y = 6.6850E-004 * x + 4.1757E-007$$

$$R = 0.9995$$

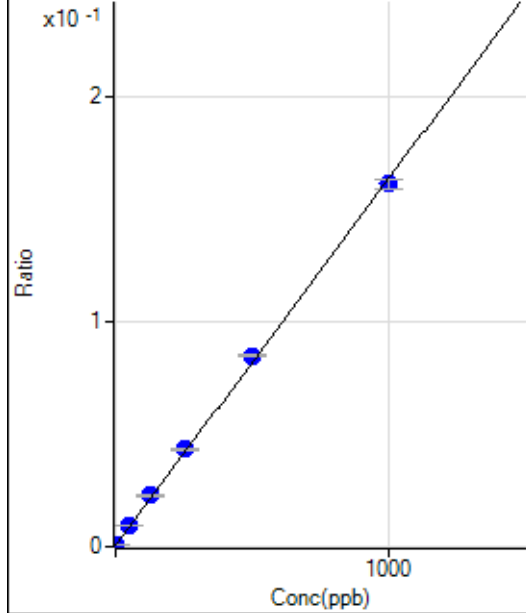
$$DL = 0.001876$$

$$BEC = 0.0006246$$

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	3593.61	0.0004	P	2.2
2	☐	1.000	0.904	4675.88	0.0006	P	1.1
3	☐	50.000	55.424	74391.12	0.0095	P	2.0
4	☐	125.000	136.265	175566.24	0.0226	P	0.5
5	☐	250.000	262.291	336730.46	0.0431	P	1.5
6	☐	500.000	517.267	658667.50	0.0846	P	0.7
7	☐	1000.000	986.615	1274610.39	0.1610	P	2.5
8	☐			3469.28	0.0005	P	1.3

$$y = 1.6277E-004 * x + 4.4573E-004$$

$$R = 0.9997$$

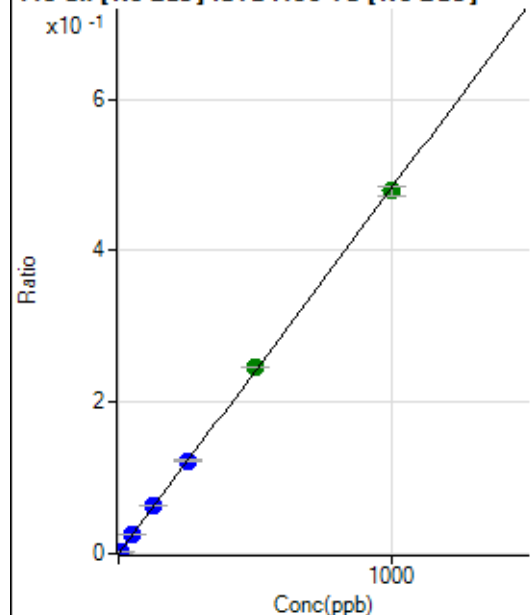
$$DL = 0.1808$$

$$BEC = 2.738$$

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	561.13	0.0001	P	10.5
2	☐	5.000	5.073	19831.50	0.0025	P	2.2
3	☐	50.000	52.866	200787.41	0.0256	P	1.6
4	☐	125.000	132.386	495703.06	0.0639	P	0.6
5	☐	250.000	254.323	957468.69	0.1227	P	1.1
6	☐	500.000	510.005	1913617.34	0.2459	A	0.7
7	☐	1000.000	992.850	3788408.21	0.4787	A	2.6
8	☐			2162.41	0.0003	P	1.5

$$y = 4.8203\text{E-}004 * x + 6.9660\text{E-}005$$

$$R = 0.9999$$

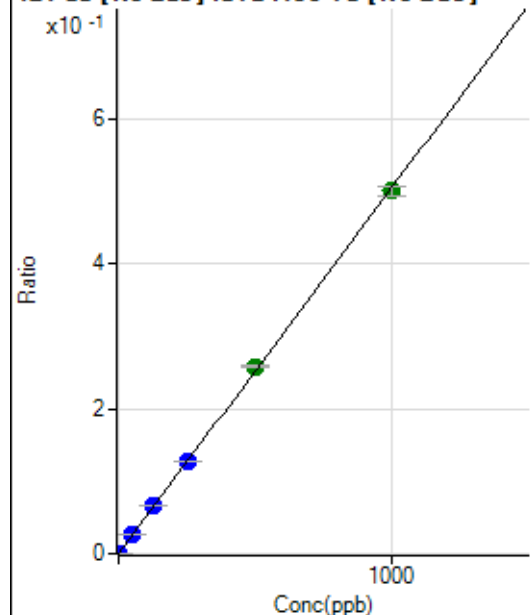
$$DL = 0.04552$$

$$BEC = 0.1445$$

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	13.33	0.0000	P	66.8
2	☐	2.000	1.997	7957.82	0.0010	P	2.5
3	☐	50.000	52.180	206847.50	0.0263	P	1.9
4	☐	125.000	129.952	508686.78	0.0656	P	1.0
5	☐	250.000	253.020	996330.26	0.1276	P	1.2
6	☐	500.000	511.690	2008804.69	0.2581	A	1.0
7	☐	1000.000	992.672	3963406.89	0.5008	A	2.6
8	☐			2132.40	0.0003	P	7.4

$$y = 5.0446\text{E-}004 * x + 1.6659\text{E-}006$$

$$R = 0.9999$$

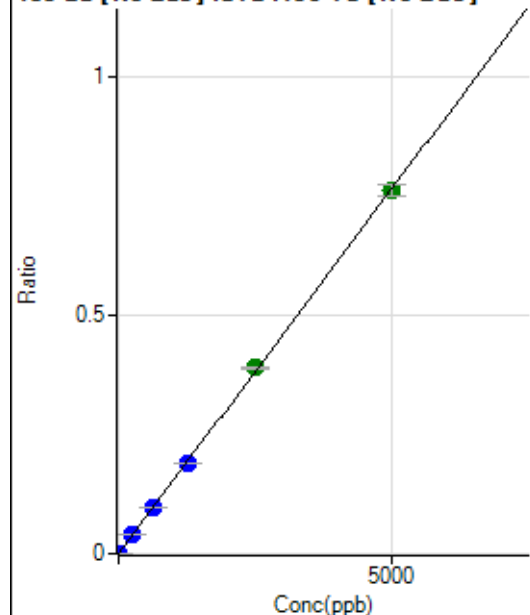
$$DL = 0.006614$$

$$BEC = 0.003302$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7.78	0.0000	P	66.2
2	☐	10.000	9.860	11911.73	0.0015	P	3.7
3	☐	250.000	256.275	308376.65	0.0392	P	1.4
4	☐	625.000	638.009	758070.31	0.0977	P	1.1
5	☐	1250.000	1240.349	1482579.37	0.1899	P	1.0
6	☐	2500.000	2546.649	3034609.75	0.3900	A	0.5
7	☐	5000.000	4977.149	6031540.40	0.7621	A	3.3
8	☐			3322.65	0.0005	P	5.2

$$y = 1.5313\text{E-}004 * x + 9.6549\text{E-}007$$

$$R = 0.9999$$

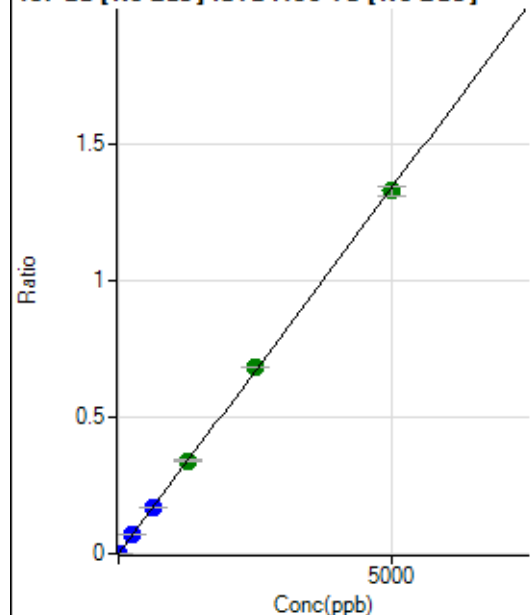
$$DL = 0.01253$$

$$BEC = 0.006305$$

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	24.45	0.0000	P	28.1
2	☐	10.000	9.822	20783.01	0.0026	P	3.0
3	☐	250.000	254.904	536954.69	0.0683	P	1.4
4	☐	625.000	638.820	1328733.54	0.1712	P	1.1
5	☐	1250.000	1273.102	2663947.88	0.3413	A	0.5
6	☐	2500.000	2555.645	5330960.48	0.6851	A	0.8
7	☐	5000.000	4964.430	10532626.51	1.3308	A	2.5
8	☐			5782.34	0.0008	P	2.8

$$y = 2.6806\text{E-}004 * x + 3.0289\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.009542$$

$$BEC = 0.0113$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	43.3
2	☐			11.11		P	17.3
3	☐			76.67		P	18.9
4	☐			166.67		P	10.6
5	☐			313.34		P	10.5
6	☐			615.58		P	8.5
7	☐			1131.17		P	5.2
8	☐			33.33		P	36.1

150 Nd [He] No available calibration points

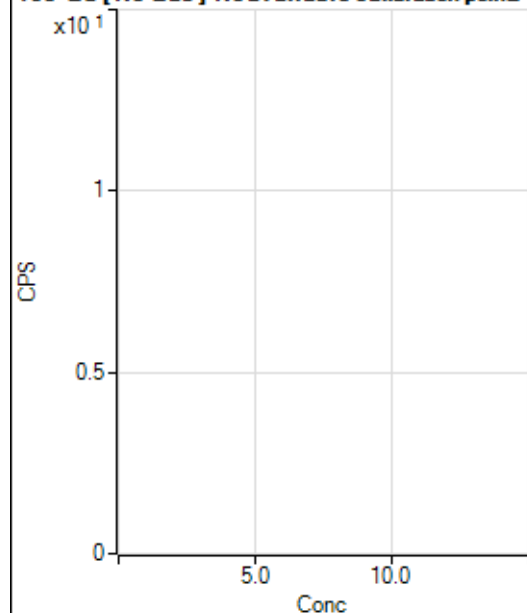
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			4.44		P	114.
3	☐			21.11		P	55.4
4	☐			27.78		P	25.0
5	☐			74.44		P	13.7
6	☐			140.00		P	4.8
7	☐			245.56		P	8.3
8	☐			26.67		P	33.1

156 Dy [No Gas] No available calibration points

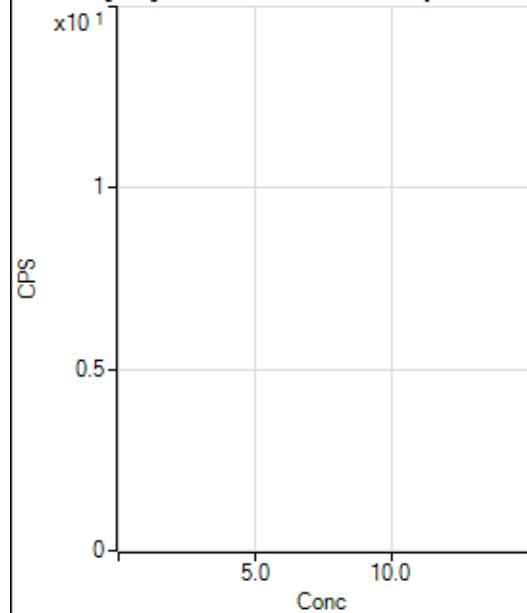
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			6.67		P	86.6
3	☐			25.55		P	27.1
4	☐			61.11		P	24.6
5	☐			125.56		P	17.1
6	☐			220.00		P	3.0
7	☐			443.35		P	7.2
8	☐			1023.38		P	10.6

156 Dy [He] No available calibration points

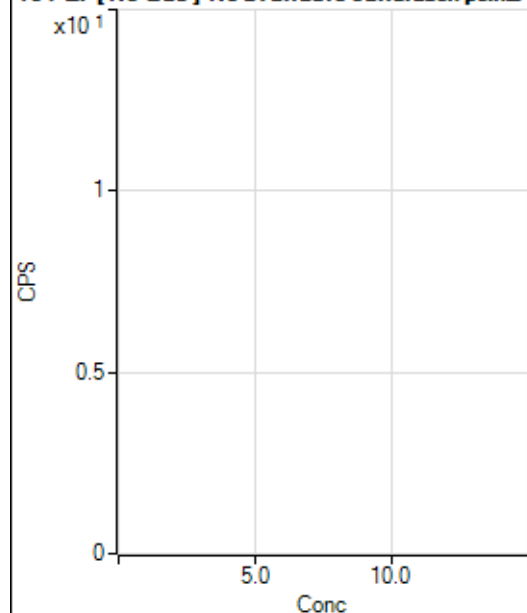
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			1.11		P	173.
3	☐			27.78		P	60.4
4	☐			37.78		P	13.5
5	☐			91.11		P	14.8
6	☐			183.34		P	7.9
7	☐			423.35		P	5.2
8	☐			657.80		P	7.9

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

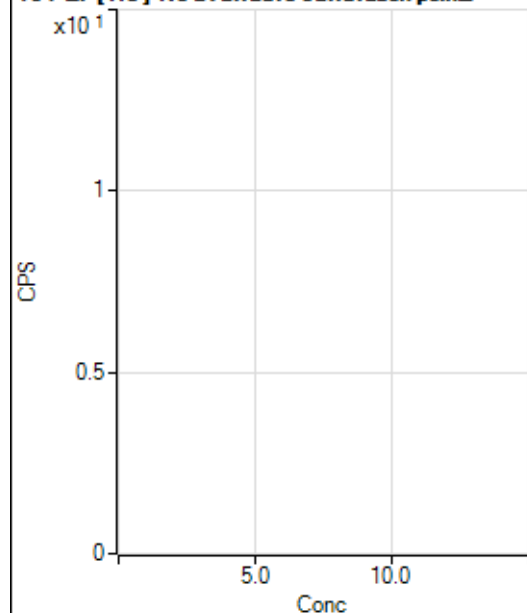
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	43.3
2	☐			26.67		P	33.1
3	☐			40.00		P	8.3
4	☐			72.22		P	11.6
5	☐			112.22		P	32.9
6	☐			181.12		P	7.4
7	☐			326.67		P	6.2
8	☐			1093.39		P	3.1

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			207.78		P	6.5
2	☐			197.78		P	2.6
3	☐			190.00		P	13.7
4	☐			242.23		P	7.9
5	☐			262.23		P	22.8
6	☐			293.34		P	14.8
7	☐			393.34		P	7.3
8	☐			826.70		P	3.2

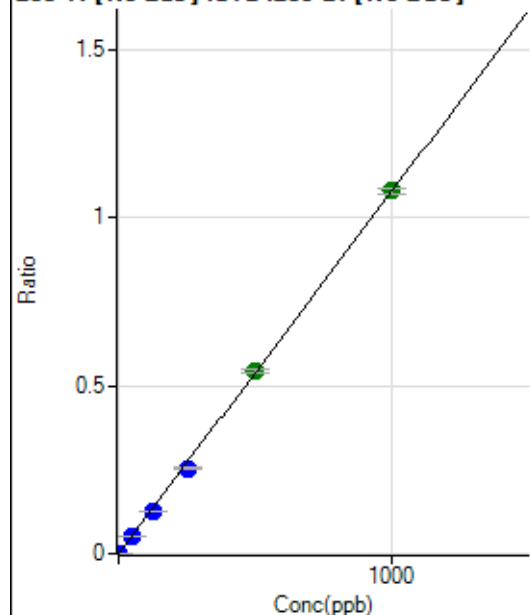
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			65.56		P	33.9
2	☐			56.66		P	27.0
3	☐			70.00		P	21.8
4	☐			60.00		P	9.6
5	☐			68.89		P	19.5
6	☐			101.11		P	13.3
7	☐			120.00		P	34.8
8	☐			97.78		P	8.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.00		P	29.4
2	☐			42.22		P	16.4
3	☐			35.55		P	44.3
4	☐			46.67		P	21.4
5	☐			52.22		P	20.5
6	☐			63.33		P	19.0
7	☐			73.33		P	38.8
8	☐			65.55		P	20.6

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	45.56	0.0000	P	12.0
2	☐	1.000	0.878	5088.77	0.0010	P	1.9
3	☐	50.000	47.007	268741.08	0.0507	P	0.7
4	☐	125.000	119.075	669945.70	0.1284	P	0.5
5	☐	250.000	236.215	1313897.17	0.2547	P	1.2
6	☐	500.000	504.195	2801415.31	0.5435	A	1.7
7	☐	1000.000	1002.239	5480030.33	1.0804	A	1.5
8	☐			522.24	0.0001	P	8.0

$$y = 0.0011 * x + 8.3750E-006$$

$$R = 0.9999$$

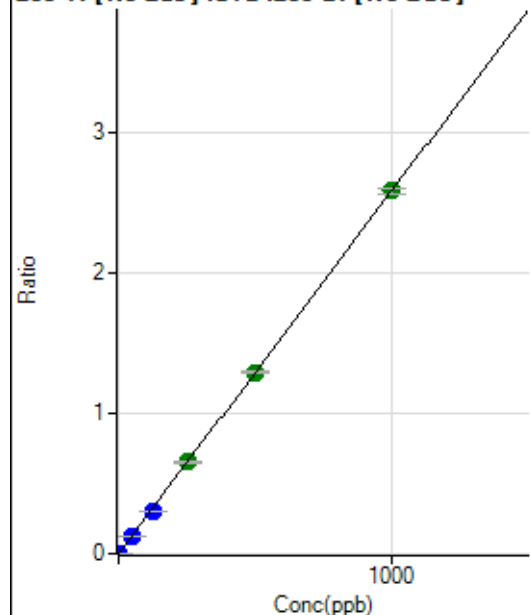
$$DL = 0.0028$$

$$BEC = 0.007769$$

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	130.00	0.0000	P	8.8
2	☐	1.000	0.883	12276.73	0.0023	P	1.0
3	☐	50.000	46.960	642720.17	0.1212	P	0.4
4	☐	125.000	118.635	1597889.40	0.3062	P	0.5
5	☐	250.000	252.169	3357780.26	0.6508	A	1.4
6	☐	500.000	499.272	6641198.17	1.2885	A	0.9
7	☐	1000.000	1000.769	13099445.36	2.5827	A	1.6
8	☐			1264.51	0.0003	P	4.4

$$y = 0.0026 * x + 2.3876E-005$$

$$R = 1.0000$$

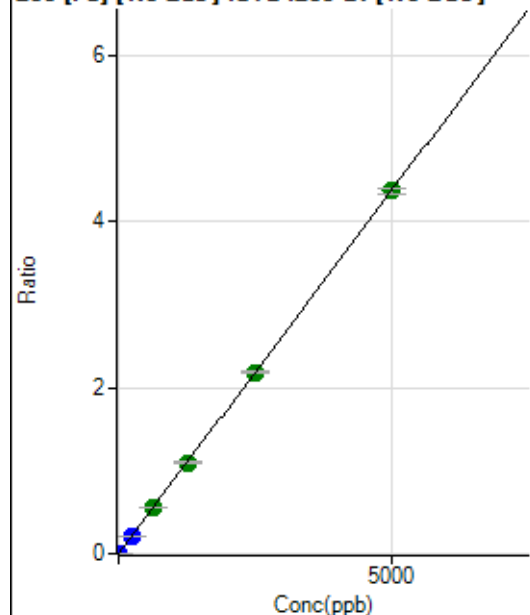
$$DL = 0.002444$$

$$BEC = 0.009252$$

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	273.34	0.0001	P	7.0
2	☐	1.000	0.899	4461.88	0.0008	P	2.8
3	☐	250.000	235.946	1095065.82	0.2065	P	0.7
4	☐	625.000	630.281	2878497.14	0.5516	A	1.5
5	☐	1250.000	1256.815	5674663.80	1.0999	A	1.8
6	☐	2500.000	2501.614	11283179.42	2.1892	A	1.0
7	☐	5000.000	4997.532	22181750.23	4.3733	A	1.6
8	☐			3972.84	0.0009	P	2.4

$$y = 8.7508\text{E-}004 * x + 5.0199\text{E-}005$$

$$R = 1.0000$$

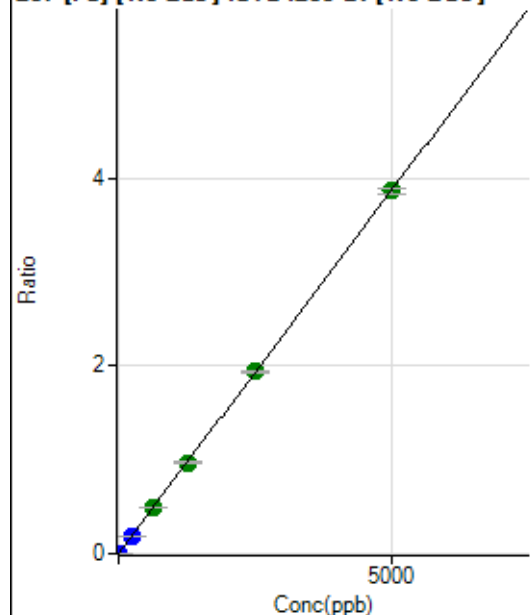
$$DL = 0.01207$$

$$BEC = 0.05736$$

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	238.89	0.0000	P	7.7
2	☐	1.000	0.889	3901.72	0.0007	P	1.8
3	☐	250.000	232.155	953058.41	0.1797	P	0.8
4	☐	625.000	629.276	2542085.60	0.4871	A	1.1
5	☐	1250.000	1251.118	4996815.97	0.9685	A	1.5
6	☐	2500.000	2509.158	10010457.28	1.9422	A	1.0
7	☐	5000.000	4995.499	19611914.43	3.8668	A	1.7
8	☐			3283.77	0.0008	P	6.0

$$y = 7.7404\text{E-}004 * x + 4.3908\text{E-}005$$

$$R = 1.0000$$

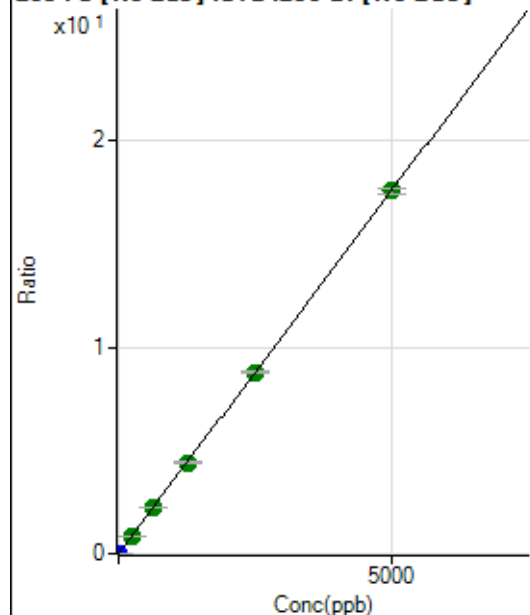
$$DL = 0.01308$$

$$BEC = 0.05673$$

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	1070.03	0.0002	P	5.6
2	☐	1.000	0.892	17780.26	0.0033	P	3.4
3	☐	250.000	244.374	4560273.11	0.8600	A	0.2
4	☐	625.000	632.264	11610710.43	2.2249	A	0.8
5	☐	1250.000	1256.619	22814136.95	4.4217	A	1.1
6	☐	2500.000	2500.392	45346080.23	8.7980	A	0.8
7	☐	5000.000	4997.523	89187751.17	17.5844	A	1.5
8	☐			15644.83	0.0037	P	1.4

$$y = 0.0035 * x + 1.9656E-004$$

$$R = 1.0000$$

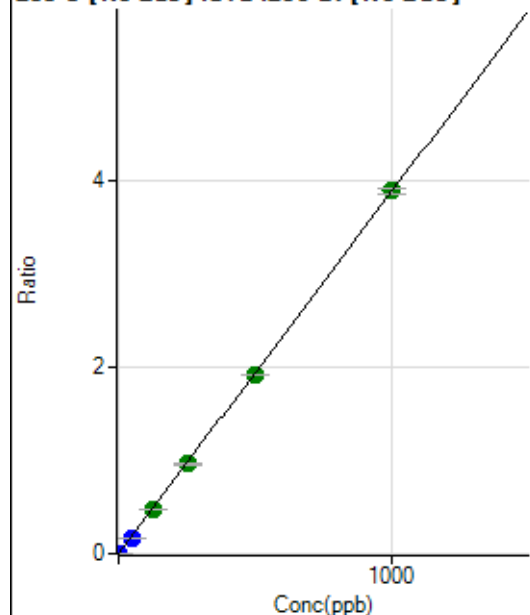
$$DL = 0.009446$$

$$BEC = 0.05586$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	16.1
2	☐	1.000	0.802	16590.46	0.0031	P	1.2
3	☐	50.000	43.028	884646.50	0.1668	P	0.9
4	☐	125.000	123.501	2499059.77	0.4789	A	1.3
5	☐	250.000	248.073	4962791.76	0.9619	A	1.6
6	☐	500.000	496.395	9920505.48	1.9247	A	0.1
7	☐	1000.000	1002.820	19721604.15	3.8883	A	1.5
8	☐			1084.50	0.0003	P	15.8

$$y = 0.0039 * x + 2.0385E-006$$

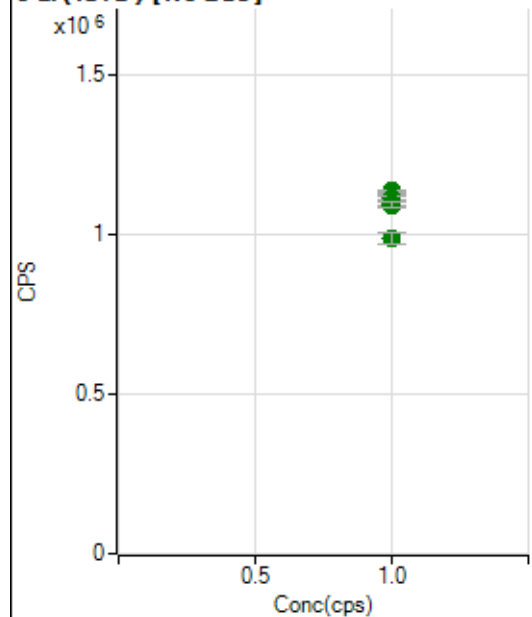
$$R = 1.0000$$

$$DL = 0.0002543$$

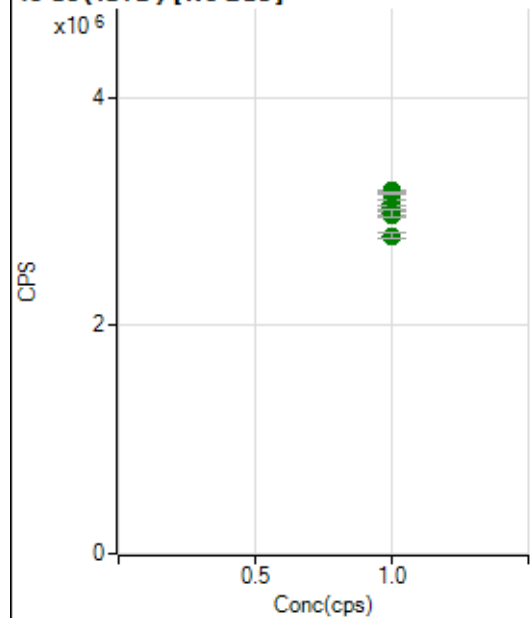
$$BEC = 0.0005257$$

Weight: <None>

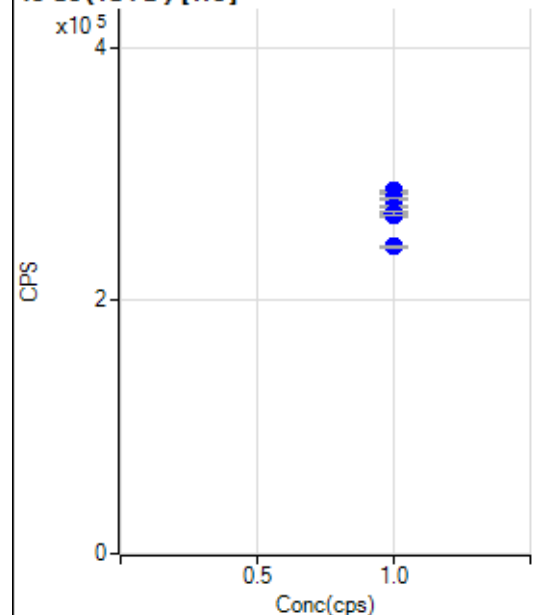
Min Conc: 0

6 Li (ISTD) [No Gas]

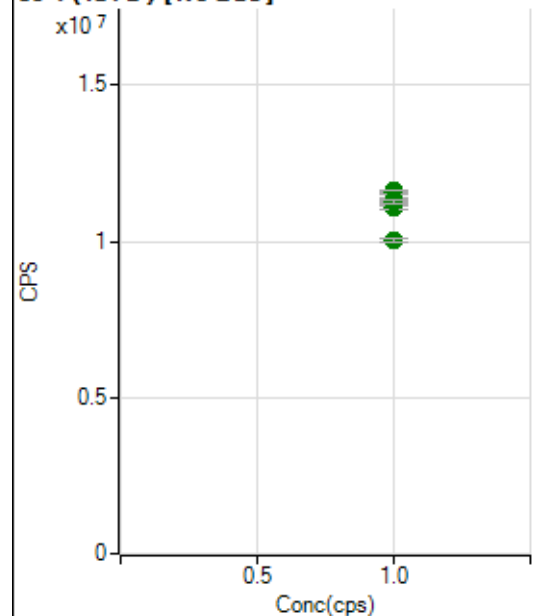
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1134804.91		A	0.4
2	☐	1.000		1114305.43		A	1.5
3	☐	1.000		1113580.58		A	1.3
4	☐	1.000		1104855.91		A	0.6
5	☐	1.000		1114154.37		A	1.0
6	☐	1.000		1095481.68		A	0.7
7	☐	1.000		1090119.72		A	1.5
8	☐	1.000		987326.14		A	3.3

45 Sc (ISTD) [No Gas]

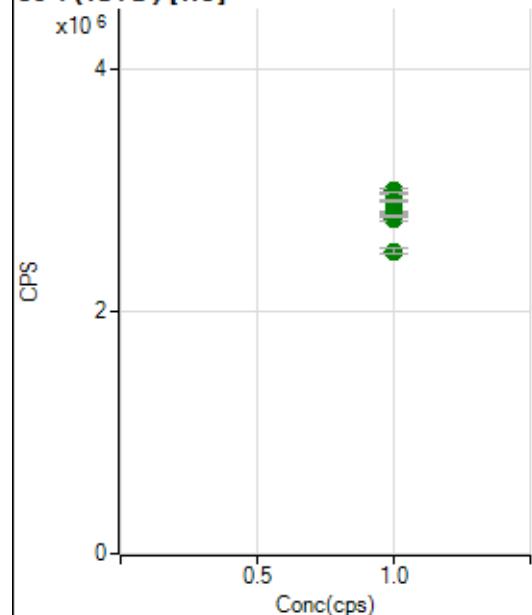
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3181005.13		A	0.7
2	☐	1.000		3155298.77		A	0.6
3	☐	1.000		3074620.16		A	1.7
4	☐	1.000		3034563.50		A	0.7
5	☐	1.000		2972584.26		A	1.8
6	☐	1.000		2965838.85		A	0.5
7	☐	1.000		2983991.62		A	1.9
8	☐	1.000		2785819.61		A	1.6

45 Sc (ISTD) [He]

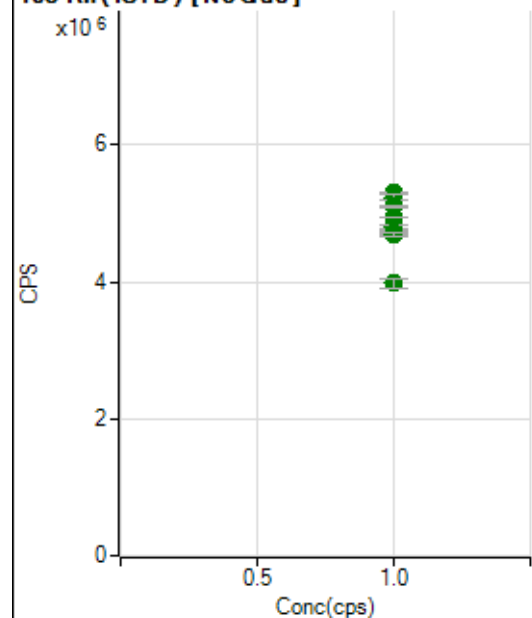
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		286837.48		P	0.3
2	☐	1.000		285442.68		P	0.4
3	☐	1.000		280900.61		P	0.4
4	☐	1.000		274272.65		P	0.6
5	☐	1.000		268563.37		P	0.7
6	☐	1.000		267022.35		P	0.4
7	☐	1.000		269166.67		P	0.8
8	☐	1.000		243054.53		P	0.6

89 Y (ISTD) [No Gas]

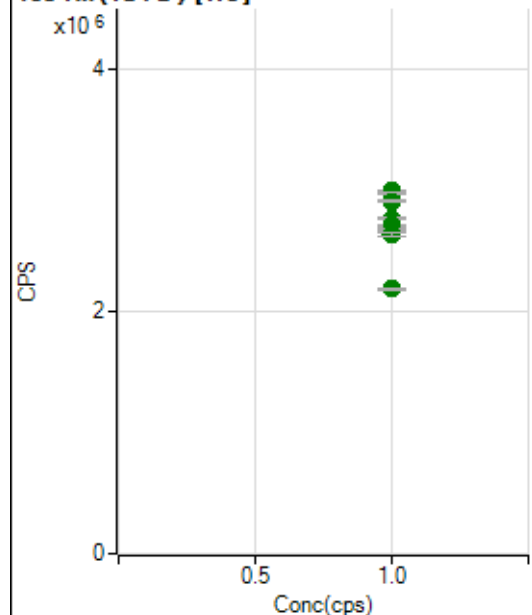
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11611387.47		A	0.7
2	☐	1.000		11576887.05		A	0.9
3	☐	1.000		11312365.25		A	1.1
4	☐	1.000		11159354.56		A	0.2
5	☐	1.000		11145872.89		A	0.6
6	☐	1.000		11105835.25		A	1.3
7	☐	1.000		11254764.97		A	1.3
8	☐	1.000		10050617.56		A	1.4

89 Y (ISTD) [He]

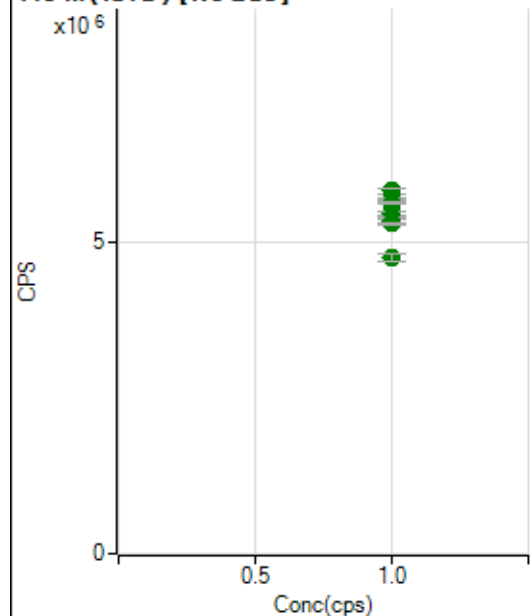
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2998627.84		A	1.0
2	☐	1.000		2978641.66		A	0.3
3	☐	1.000		2914585.58		A	0.5
4	☐	1.000		2823142.25		A	0.5
5	☐	1.000		2802704.99		A	0.8
6	☐	1.000		2773062.49		A	1.6
7	☐	1.000		2795521.28		A	0.7
8	☐	1.000		2501471.23		A	1.6

103 Rh (ISTD) [No Gas]

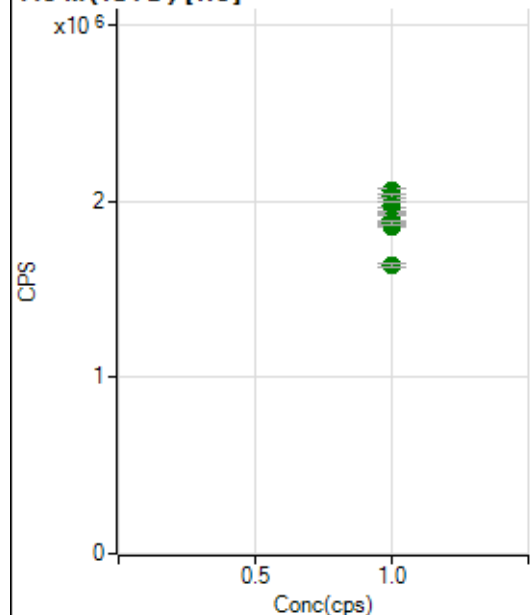
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5297086.90		A	0.7
2	☐	1.000		5232667.53		A	1.4
3	☐	1.000		5096214.16		A	0.2
4	☐	1.000		4941859.09		A	0.5
5	☐	1.000		4793071.67		A	1.1
6	☐	1.000		4714288.75		A	1.1
7	☐	1.000		4696012.78		A	1.5
8	☐	1.000		3977767.30		A	3.5

103 Rh (ISTD) [He]

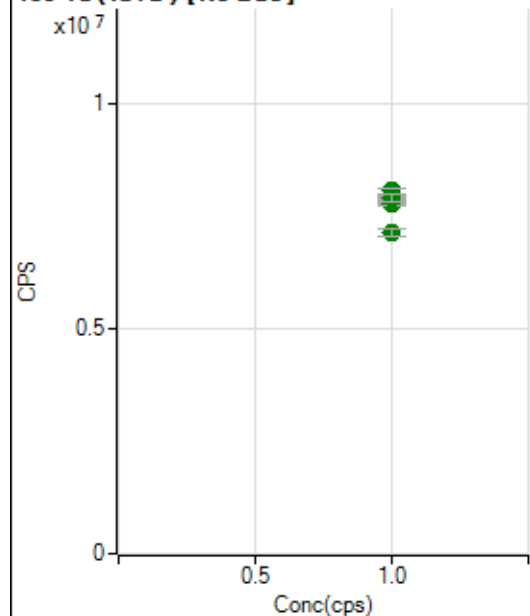
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2998142.18		A	0.2
2	☐	1.000		2981860.44		A	0.3
3	☐	1.000		2915657.28		A	0.4
4	☐	1.000		2770829.13		A	0.5
5	☐	1.000		2714305.03		A	0.7
6	☐	1.000		2679560.07		A	0.4
7	☐	1.000		2641042.95		A	1.4
8	☐	1.000		2186739.12		A	0.5

115 In (ISTD) [No Gas]

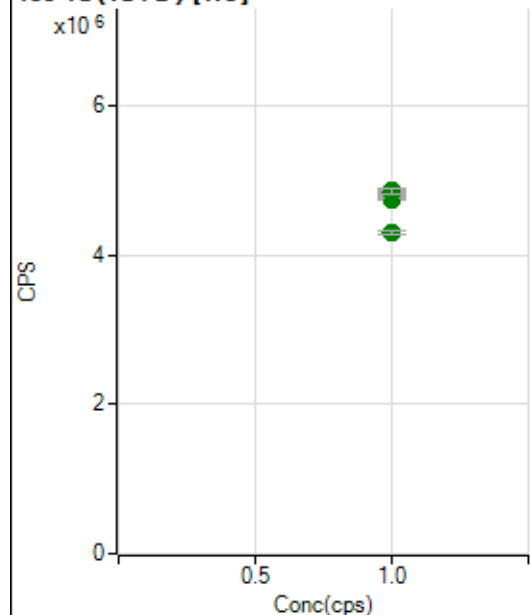
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5825762.44		A	1.3
2	☐	1.000		5701659.70		A	0.6
3	☐	1.000		5622778.76		A	0.6
4	☐	1.000		5470425.76		A	0.8
5	☐	1.000		5395871.76		A	0.5
6	☐	1.000		5353069.31		A	1.4
7	☐	1.000		5303365.08		A	0.5
8	☐	1.000		4748861.89		A	2.8

115 In (ISTD) [He]

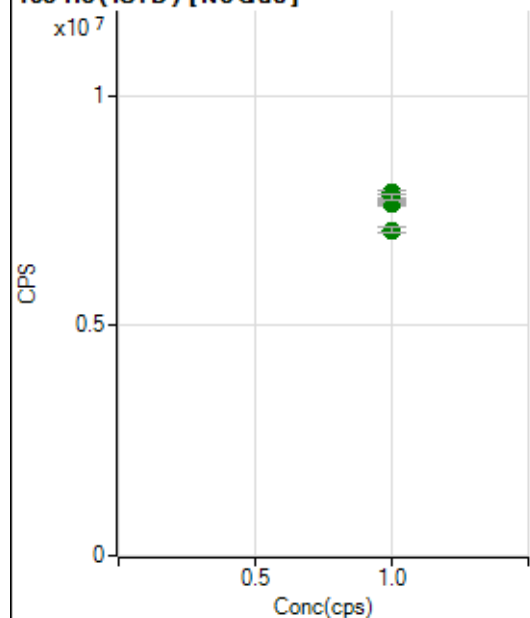
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2060593.25		A	1.3
2	☐	1.000		2032628.39		A	0.9
3	☐	1.000		1980937.99		A	1.4
4	☐	1.000		1939963.23		A	0.6
5	☐	1.000		1898530.09		A	2.0
6	☐	1.000		1861256.53		A	1.1
7	☐	1.000		1879847.51		A	0.9
8	☐	1.000		1637788.52		A	1.6

159 Tb (ISTD) [No Gas]

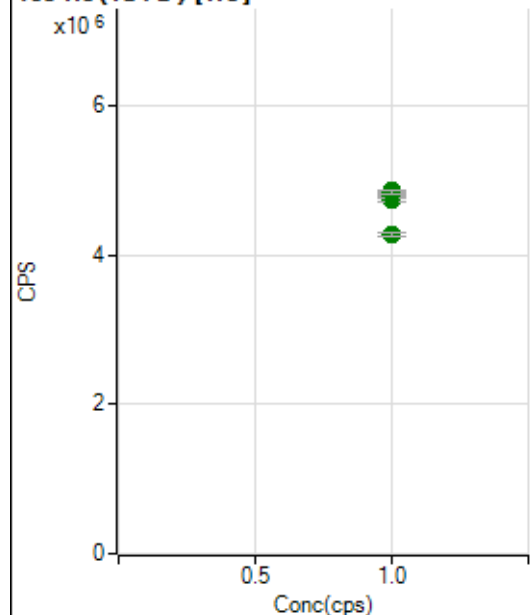
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8064283.22		A	1.7
2	☐	1.000		7886108.28		A	1.1
3	☐	1.000		7858837.87		A	1.2
4	☐	1.000		7759613.91		A	0.5
5	☐	1.000		7806324.75		A	1.0
6	☐	1.000		7781983.63		A	0.8
7	☐	1.000		7917734.95		A	2.2
8	☐	1.000		7141994.61		A	2.1

159 Tb (ISTD) [He]

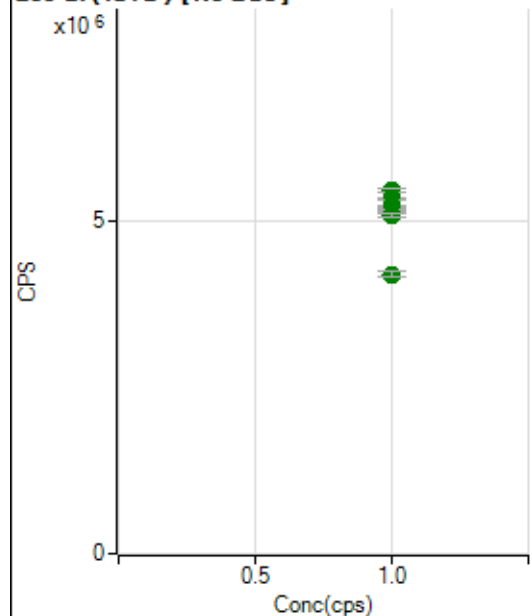
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4862397.95		A	0.3
2	☐	1.000		4861246.32		A	0.8
3	☐	1.000		4822434.27		A	1.4
4	☐	1.000		4783741.07		A	0.8
5	☐	1.000		4751945.38		A	0.1
6	☐	1.000		4784047.78		A	0.7
7	☐	1.000		4849197.74		A	1.6
8	☐	1.000		4304370.56		A	0.8

165 Ho (ISTD) [No Gas]

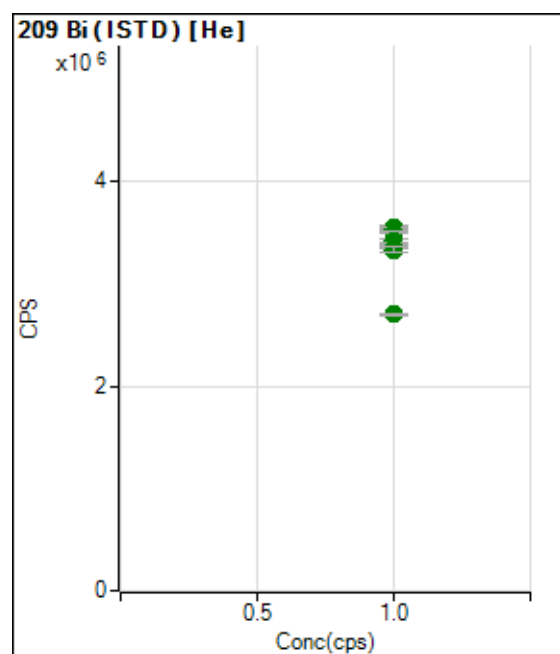
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7880326.48		A	1.2
2	☐	1.000		7748594.61		A	0.7
3	☐	1.000		7749147.59		A	0.4
4	☐	1.000		7628396.07		A	1.1
5	☐	1.000		7656469.61		A	0.4
6	☐	1.000		7717369.40		A	0.5
7	☐	1.000		7805046.62		A	1.6
8	☐	1.000		7065376.77		A	1.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4866389.86		A	0.5
2	☐	1.000		4826268.61		A	0.5
3	☐	1.000		4805610.62		A	0.7
4	☐	1.000		4751795.83		A	1.0
5	☐	1.000		4787500.83		A	0.7
6	☐	1.000		4793295.97		A	1.2
7	☐	1.000		4840375.24		A	1.1
8	☐	1.000		4274687.05		A	1.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5443760.13		A	1.2
2	☐	1.000		5331250.40		A	0.5
3	☐	1.000		5302370.34		A	0.1
4	☐	1.000		5218747.60		A	0.6
5	☐	1.000		5159919.12		A	0.9
6	☐	1.000		5154237.39		A	0.4
7	☐	1.000		5072668.19		A	1.3
8	☐	1.000		4186638.97		A	2.1



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3547481.68		A	0.9
2	☐	1.000		3538608.84		A	1.1
3	☐	1.000		3502923.21		A	0.5
4	☐	1.000		3424087.27		A	0.7
5	☐	1.000		3397357.76		A	0.6
6	☐	1.000		3344370.37		A	0.3
7	☐	1.000		3333208.25		A	1.5
8	☐	1.000		2705864.80		A	0.7

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7051223 MS.b

Acq. Date-Time 2023-05-12 07:34:36

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		4583	45830.38			0.757	5.000
24		58561	585609.48			0.297	5.000
25		8036	80364.89			0.447	5.000
26		9517	95165.32			0.296	5.000
59		45599	455991.39			0.917	5.000
113		6417	64173.72			0.803	5.000
115		81885	818849.91			1.046	5.000
206		20657	206572.87			1.466	5.000
207		19053	190529.78			1.089	5.000
208		44671	446711.81			0.972	5.000
220		0	1.70			44.605	

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

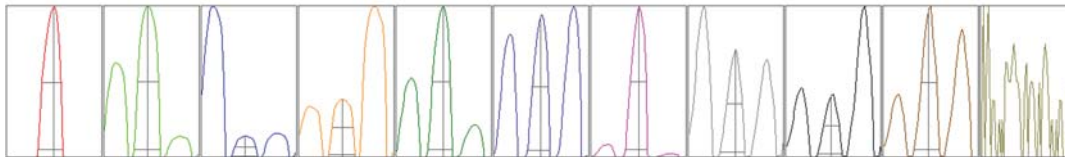
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	4633	4606	4562	4562	4552
24	58677	58702	58513	58278	58634
25	8028	8077	8071	8001	8005
26	9530	9526	9500	9477	9550
59	44889	45948	45648	45651	45861
113	6335	6448	6423	6411	6470
115	80641	81454	82519	82766	82045
206	20152	20632	20736	20842	20924
207	18700	19088	19090	19139	19247
208	43937	44611	44916	44931	44961

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	8185.01	9.00	8.90 - 9.10	
24	93465.87	23.90	23.90 - 24.10	
25	12708.28	24.90	24.90 - 25.10	
26	14442.90	25.90	25.90 - 26.10	
59	84871.61	59.00	58.90 - 59.10	
113	13303.73	113.00	112.90 - 113.10	
115	171090.53	115.05	114.90 - 115.10	
206	42979.73	206.00	205.90 - 206.10	
207	38276.25	206.95	206.90 - 207.10	
208	92016.73	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.782	0.900	
24	0.67	0.827	0.900	
25	0.66	0.824	0.900	
26	0.68	0.833	0.900	
59	0.56	0.782	0.900	
113	0.49	0.716	0.900	
115	0.50	0.701	0.900	
206	0.49	0.782	0.900	
207	0.50	0.775	0.900	
208	0.49	0.807	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

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

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.8 V	Deflect	17.4 V
Extract 2	-85.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-55 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	123	Axis Gain	1.0002	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	1.0 mm
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EM

Discriminator	3.2 mV	Analog HV	2290 V	Pulse HV	1601 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		16144	161436.44			0.441	
89		25999	259992.25			0.642	
205		17928	179276.44			0.429	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	16167	16172	16149	16208	16022
89	26211	26036	26040	25958	25751
205	17898	17905	18057	17924	17854

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	8.6 V	Deflect	3.2 V
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US EPA Tune Check Report

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

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-1.0 mm	Torch V	1.0 mm
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EM

Discriminator	3.2 mV	Analog HV	2290 V	Pulse HV	1601 V
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