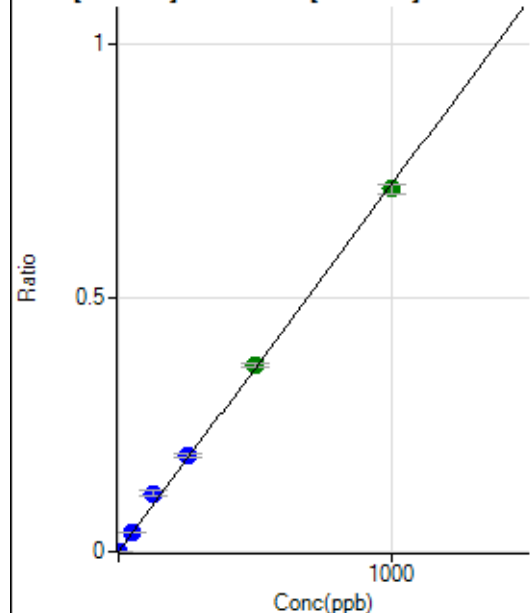


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7121422-MS.b\
Analysis File: P7121422-MS.batch.bin
DA Date-Time: 2022-12-14 11:10:47
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-12-14 10:05:35
2	005CAL.S.d	S02	2022-12-14 10:08:27
3	006CAL.S.d	S03	2022-12-14 10:11:21
4	007CAL.S.d	S04	2022-12-14 10:14:05
5	008CAL.S.d	S05	2022-12-14 10:16:52
6	009CAL.S.d	S06	2022-12-14 10:19:36
7	010CAL.S.d	S07	2022-12-14 10:22:23
8	011CAL.S.d	S08	2022-12-14 10:25:07

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	48.89	0.0000	P	23.7
2	☐	1.000	1.070	2573.58	0.0008	P	2.1
3	☐	50.000	53.911	123088.71	0.0391	P	0.9
4	☐	125.000	158.700	308565.80	0.1150	P	10.7
5	☐	250.000	263.958	580145.54	0.1913	P	3.6
6	☐	500.000	508.095	1114064.25	0.3681	A	2.1
7	☐	1000.000	988.055	2104322.24	0.7159	A	2.8
8	☐			943.37	0.0004	P	8.2

$$y = 7.2452\text{E-}004 * x + 1.5079\text{E-}005$$

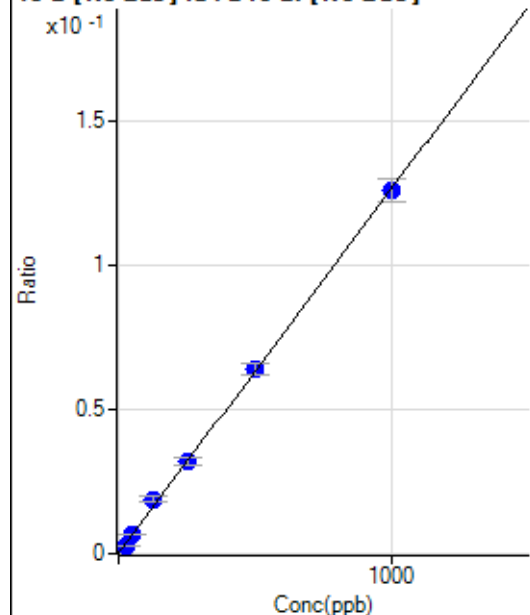
$$R = 0.9993$$

$$DL = 0.01481$$

$$BEC = 0.02081$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	466.68	0.0001	P	12.4
2	☐	25.000	21.866	9455.86	0.0029	P	4.3
3	☐	50.000	50.555	20541.78	0.0065	P	6.0
4	☐	125.000	147.465	50307.24	0.0188	P	11.6
5	☐	250.000	250.727	96388.53	0.0318	P	7.8
6	☐	500.000	505.714	193501.37	0.0640	P	5.9
7	☐	1000.000	994.204	369080.89	0.1256	P	6.4
8	☐			17685.52	0.0066	P	12.6

$$y = 1.2620\text{E-}004 * x + 1.4320\text{E-}004$$

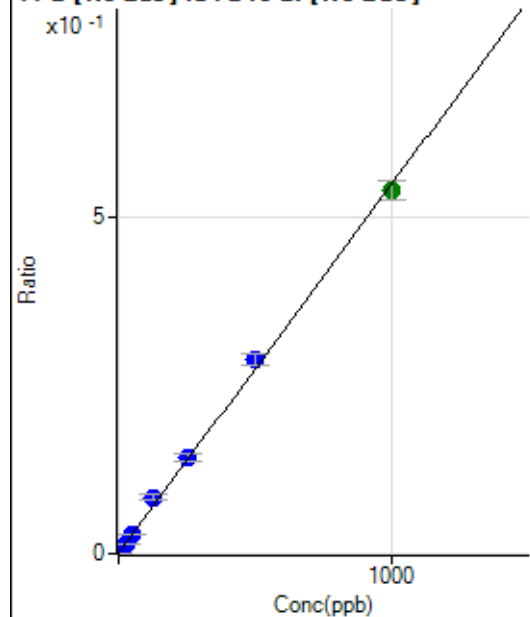
$$R = 0.9997$$

$$DL = 0.4212$$

$$BEC = 1.135$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2253.00	0.0007	P	7.0
2	☐	25.000	23.021	43339.04	0.0133	P	4.3
3	☐	50.000	51.547	91093.06	0.0289	P	6.9
4	☐	125.000	152.329	225756.41	0.0841	P	11.2
5	☐	250.000	260.668	435083.25	0.1435	P	7.4
6	☐	500.000	522.868	868360.33	0.2871	P	6.0
7	☐	1000.000	982.455	1583178.06	0.5388	A	5.4
8	☐			79332.95	0.0298	P	13.0

$$y = 5.4770E-004 * x + 6.9185E-004$$

$$R = 0.9992$$

$$DL = 0.2648$$

$$BEC = 1.263$$

Weight: <None>

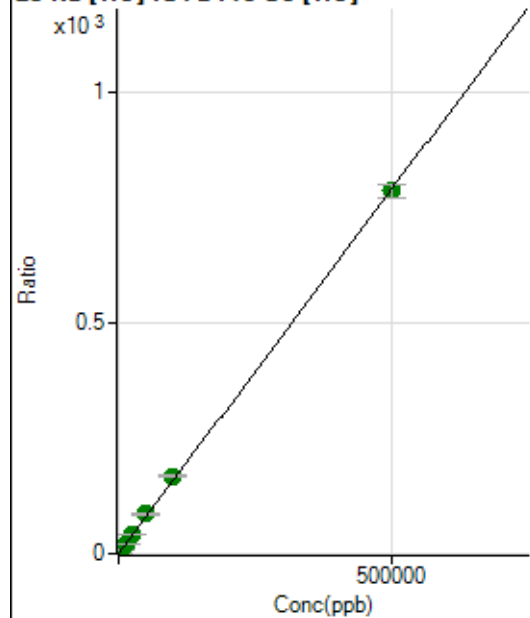
Min Conc: 0

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	28797.49	0.0690	P	2.0
2	☐	500.000	546.662	369796.36	0.9334	P	6.3
3	☐	5000.000	5442.148	3497268.83	8.6739	A	4.0
4	☐	12500.000	14064.465	8667537.93	22.3071	A	3.0
5	☐	25000.000	26762.680	16776063.34	42.3849	A	3.2
6	☐	50000.000	54440.219	33619787.09	86.1473	A	2.8
7	☐	100000.00	106758.37	65109440.35	168.8703	A	0.6
8	☐	500000.00	498072.58	298468725.1	787.5977	A	3.5

$$y = 0.0016 * x + 0.0690$$

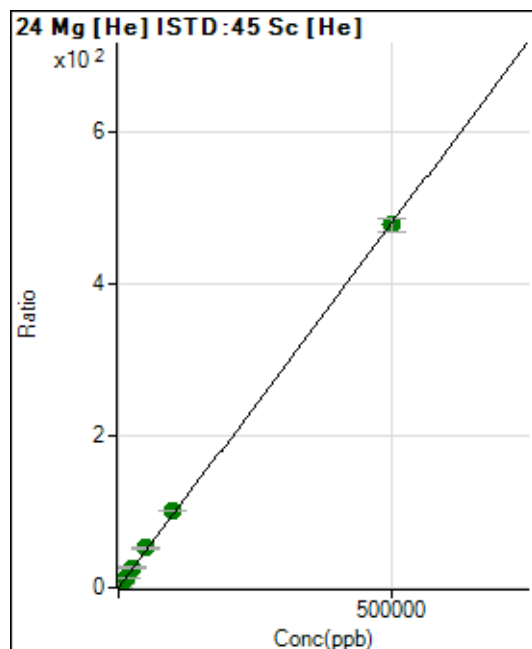
$$R = 0.9999$$

$$DL = 2.665$$

$$BEC = 43.64$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	931.53	0.0022	P	11.5
2	☐	500.000	551.367	210442.07	0.5311	P	6.0
3	☐	5000.000	5604.934	2169048.07	5.3783	A	2.9
4	☐	12500.000	14202.185	5294757.53	13.6245	A	1.9
5	☐	25000.000	27246.653	10343486.11	26.1364	A	3.9
6	☐	50000.000	54519.362	20409055.32	52.2955	A	2.7
7	☐	100000.00	106393.06	39347220.32	102.0512	A	0.4
8	☐	500000.00	498108.46	181049283.6	477.7726	A	3.7

$$y = 9.5917\text{E-}004 * x + 0.0022$$

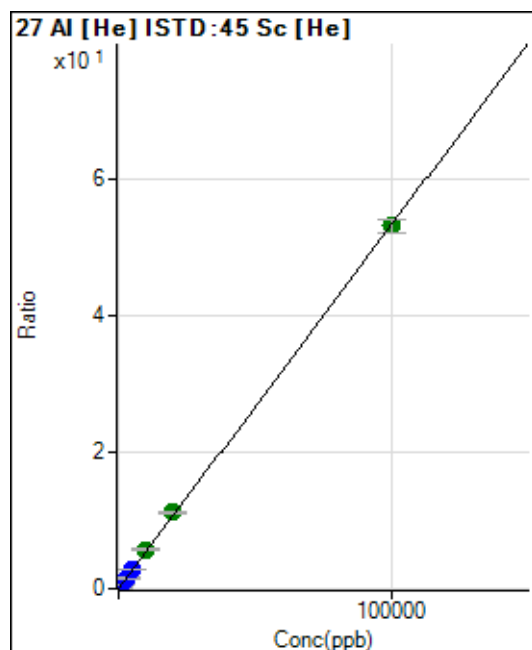
R = 0.9999

DL = 0.8034

BEC = 2.33

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	142.60	0.0003	P	22.5
2	☐	20.000	296.342	62836.19	0.1585	P	5.5
3	☐	1000.000	1089.815	234754.12	0.5821	P	3.2
4	☐	2500.000	2874.551	596407.54	1.5349	P	3.0
5	☐	5000.000	5399.440	1141106.16	2.8828	P	2.6
6	☐	10000.000	10735.487	2236749.65	5.7314	A	2.7
7	☐	20000.000	20948.198	4311633.08	11.1834	A	1.1
8	☐	100000.00	99706.522	20169611.10	53.2278	A	3.8

$$y = 5.3384\text{E-}004 * x + 3.4081\text{E-}004$$

R = 0.9999

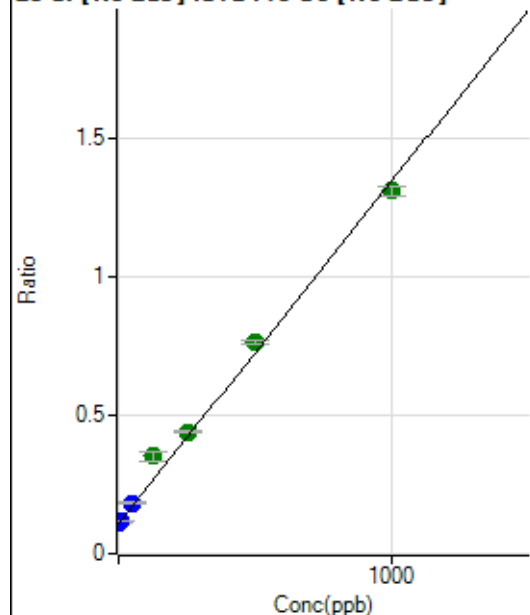
DL = 0.4312

BEC = 0.6384

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	570477.05	0.1089	P	1.8
2	☐	10.000	6.207	623115.61	0.1165	P	2.1
3	☐	50.000	59.069	930487.03	0.1817	P	3.6
4	☐	125.000	197.281	1484567.05	0.3522	A	9.8
5	☐	250.000	267.687	2154112.22	0.4390	A	2.4
6	☐	500.000	527.685	3676710.85	0.7597	A	1.8
7	☐	1000.000	972.285	6293694.93	1.3081	A	2.7
8	☐			1152675.85	0.2494	M	12.1

$$y = 0.0012 * x + 0.1089$$

$$R = 0.9967$$

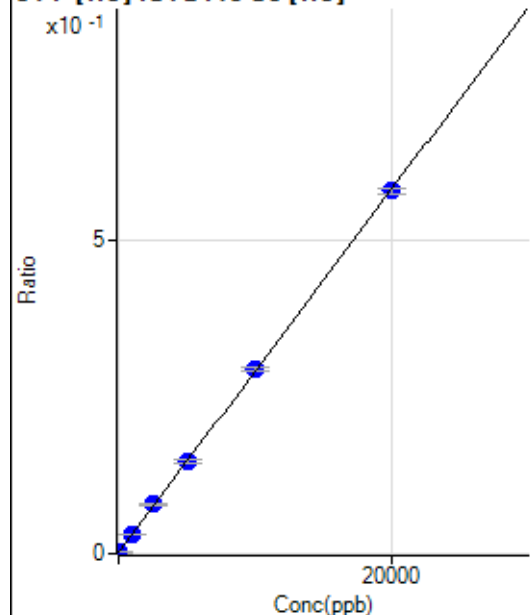
$$DL = 4.778$$

$$BEC = 88.27$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-10.918	541.69	0.0013	P	8.1
2	☐	0.000	10.918	763.93	0.0019	P	9.6
3	☐	1000.000	1015.722	12510.95	0.0310	P	4.0
4	☐	2500.000	2691.520	30895.65	0.0795	P	3.8
5	☐	5000.000	5049.923	58487.40	0.1478	P	3.7
6	☐	10000.000	10087.343	114591.00	0.2936	P	2.4
7	☐	20000.000	19919.122	222902.55	0.5782	P	1.8
8	☐			527.80	0.0014	P	5.1

$$y = 2.8946E-005 * x + 0.0016$$

$$R = 0.9999$$

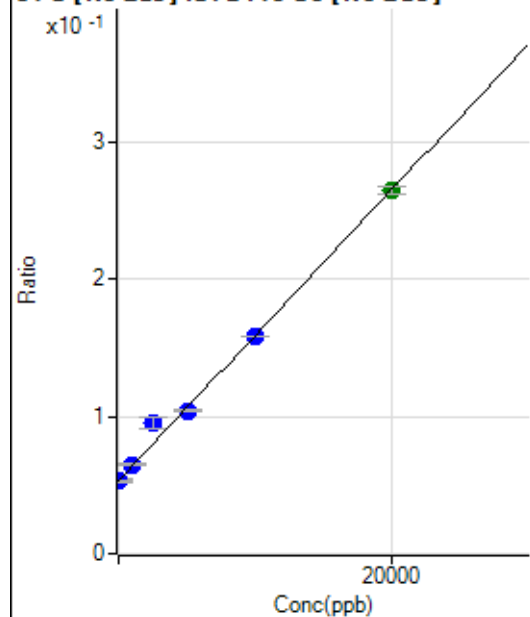
$$DL = 15.05$$

$$BEC = 55.78$$

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	42.406	281470.58	0.0537	P	1.8
2	☐	0.000	-42.406	282432.05	0.0528	P	2.1
3	☐	1000.000	1093.376	332234.85	0.0649	P	1.8
4	☐	2500.000	3952.503	401584.32	0.0952	P	8.9
5	☐	5000.000	4803.956	511518.43	0.1043	P	2.2
6	☐	10000.000	9899.797	766313.75	0.1583	P	0.7
7	☐	20000.000	19912.881	1273379.90	0.2646	A	2.0
8	☐			248082.94	0.0537	P	1.3

$$y = 1.0614\text{E-}005 * x + 0.0533$$

$$R = 0.9970$$

$$DL = 298.1$$

$$BEC = 5018$$

Weight: <None>

Min Conc: 0

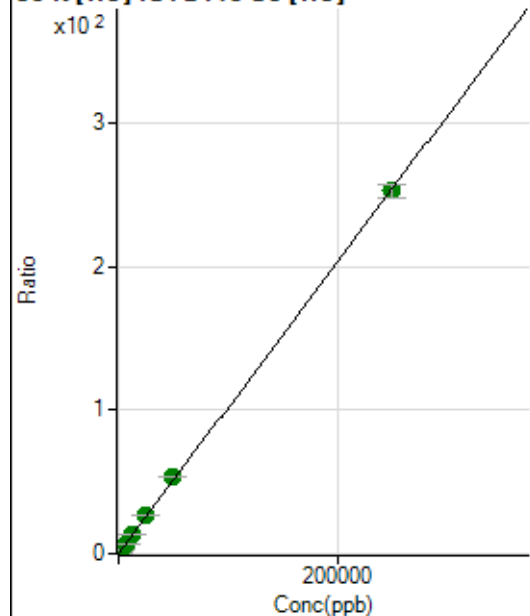
35 Cl [No Gas] No available calibration points



	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	45017.21	0.1078	P	0.7
2	☐	500.000	571.661	272436.47	0.6877	P	6.6
3	☐	2500.000	2708.538	1151782.53	2.8552	A	1.7
4	☐	6250.000	6941.864	2778052.77	7.1493	A	3.5
5	☐	12500.000	13076.015	5291788.66	13.3715	A	3.8
6	☐	25000.000	26620.881	10580387.22	27.1107	A	2.7
7	☐	50000.000	52878.594	20721067.30	53.7451	A	1.0
8	☐	250000.00	249213.86	95832620.20	252.8973	A	3.7

$$y = 0.0010 * x + 0.1078$$

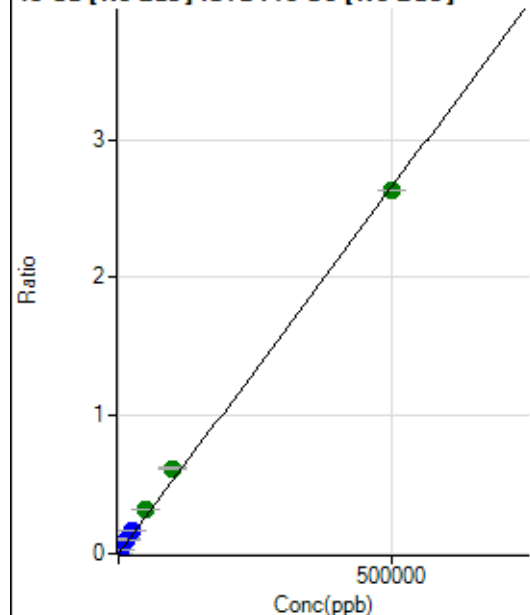
$$R = 0.9999$$

$$DL = 2.18$$

$$BEC = 106.3$$

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	130.56	0.0000	P	34.3
2	☐	500.000	514.094	14726.90	0.0028	P	1.2
3	☐	5000.000	6381.906	173587.86	0.0339	P	2.6
4	☐	12500.000	19293.769	431646.39	0.1024	P	10.3
5	☐	25000.000	31273.472	814535.75	0.1660	P	2.7
6	☐	50000.000	60542.809	1555295.79	0.3214	A	0.9
7	☐	100000.00	116540.26	2976479.02	0.6186	A	2.5
8	☐	500000.00	495140.31	12148945.76	2.6282	A	0.2

$$y = 5.3079\text{E-}006 * x + 2.4842\text{E-}005$$

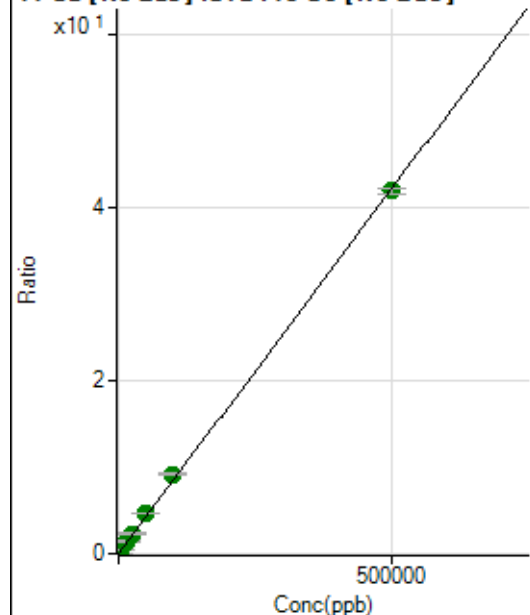
$$R = 0.9993$$

$$DL = 4.817$$

$$BEC = 4.68$$

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	10345.49	0.0020	P	2.3
2	☐	500.000	528.414	249054.62	0.0466	P	1.1
3	☐	5000.000	5563.824	2414723.54	0.4715	A	2.2
4	☐	12500.000	16817.315	5985826.13	1.4213	A	11.2
5	☐	25000.000	27494.414	11394105.72	2.3224	A	2.5
6	☐	50000.000	56146.104	22940760.58	4.7405	A	1.1
7	☐	100000.00	108598.89	44107105.15	9.1672	A	2.7
8	☐	500000.00	497427.29	194057440.4	41.9826	A	1.6

$$y = 8.4396\text{E-}005 * x + 0.0020$$

$$R = 0.9998$$

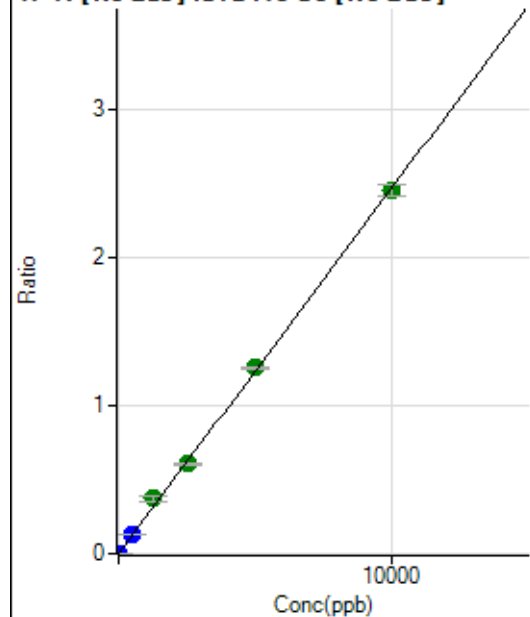
$$DL = 1.609$$

$$BEC = 23.39$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	163.90	0.0000	P	5.9
2	☐	5.000	4.720	6390.39	0.0012	P	2.4
3	☐	500.000	513.049	647810.49	0.1265	P	2.9
4	☐	1250.000	1505.413	1563640.25	0.3712	A	10.7
5	☐	2500.000	2462.081	2978036.76	0.6070	A	2.4
6	☐	5000.000	5087.032	6069174.49	1.2541	A	1.0
7	☐	10000.000	9933.385	11782111.29	2.4489	A	3.1
8	☐			3528.30	0.0008	P	5.5

$$y = 2.4653E-004 * x + 3.1277E-005$$

$$R = 0.9996$$

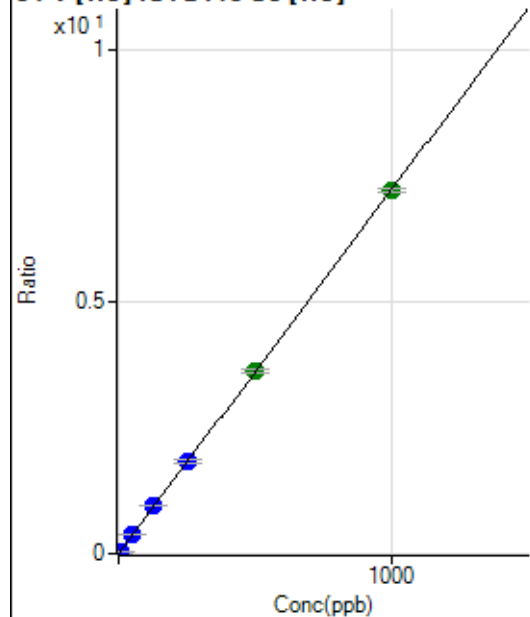
$$DL = 0.0224$$

$$BEC = 0.1269$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	32.22	0.0001	P	42.6
2	☐	5.000	4.985	14296.85	0.0361	P	6.9
3	☐	50.000	51.565	150267.21	0.3726	P	2.8
4	☐	125.000	132.140	370959.92	0.9547	P	2.9
5	☐	250.000	253.614	725185.73	1.8322	P	3.2
6	☐	500.000	502.181	1415941.87	3.6279	A	2.4
7	☐	1000.000	997.035	2777056.97	7.2029	A	1.1
8	☐			707.80	0.0019	P	3.6

$$y = 0.0072 * x + 7.7468E-005$$

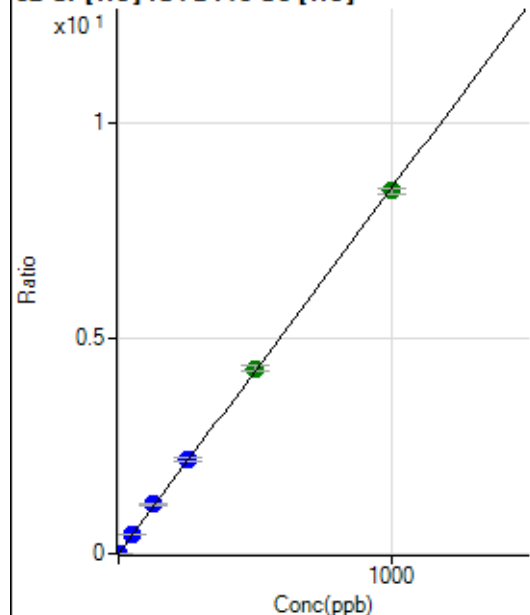
$$R = 1.0000$$

$$DL = 0.01371$$

$$BEC = 0.01072$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	970.04	0.0023	P	1.4
2	☐	2.000	2.249	8461.34	0.0214	P	6.8
3	☐	50.000	53.118	182226.26	0.4519	P	3.3
4	☐	125.000	135.673	447066.73	1.1506	P	2.9
5	☐	250.000	258.429	866560.65	2.1895	P	3.3
6	☐	500.000	507.346	1676366.24	4.2961	A	3.5
7	☐	1000.000	992.729	3240077.69	8.4040	A	1.6
8	☐			18193.26	0.0480	P	3.7

$$y = 0.0085 * x + 0.0023$$

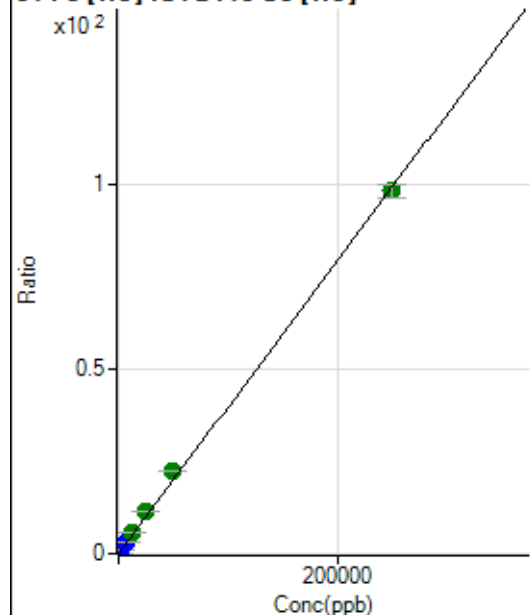
$$R = 0.9999$$

$$DL = 0.01141$$

$$BEC = 0.2746$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2409.34	0.0058	P	8.3
2	☐	50.000	66.053	12644.97	0.0319	P	6.5
3	☐	2500.000	3139.031	503317.56	1.2480	P	2.7
4	☐	6250.000	8074.220	1243802.73	3.2009	P	2.8
5	☐	12500.000	14579.296	2285558.99	5.7751	A	3.7
6	☐	25000.000	28941.242	4471520.32	11.4585	A	3.2
7	☐	50000.000	56763.583	8662597.71	22.4684	A	1.4
8	☐	250000.00	248097.19	37203691.97	98.1835	A	3.9

$$y = 3.9572E-004 * x + 0.0058$$

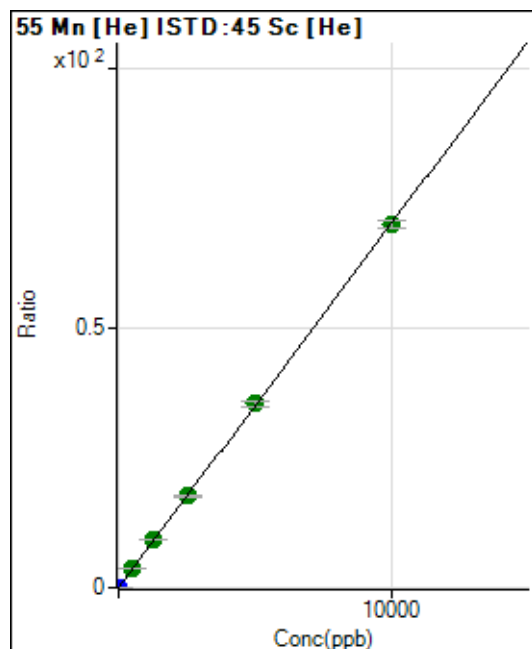
$$R = 0.9996$$

$$DL = 3.636$$

$$BEC = 14.59$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	132.23	0.0003	P	14.1
2	☐	1.000	1.343	3849.43	0.0097	P	10.0
3	☐	500.000	514.801	1455315.73	3.6083	A	2.6
4	☐	1250.000	1320.764	3596952.83	9.2568	A	3.2
5	☐	2500.000	2514.252	6974709.83	17.6214	A	3.1
6	☐	5000.000	5057.787	13831923.68	35.4477	A	3.5
7	☐	10000.000	9957.958	26905473.76	69.7903	A	2.1
8	☐			26887.39	0.0709	P	2.8

$$y = 0.0070 * x + 3.1712E-004$$

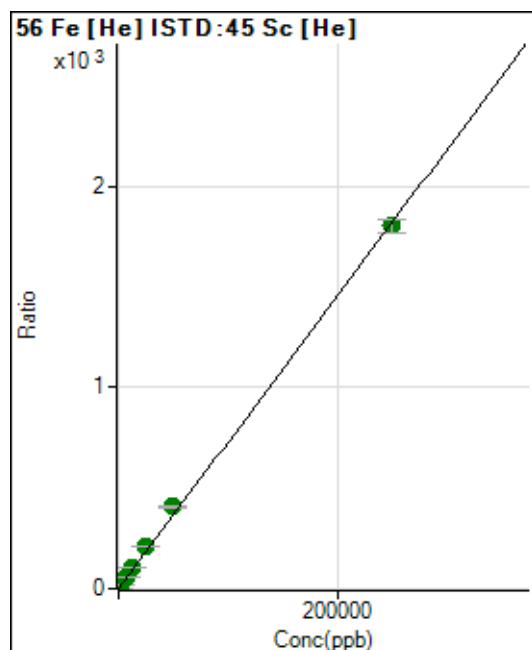
$$R = 1.0000$$

$$DL = 0.01918$$

$$BEC = 0.04525$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12182.89	0.0292	P	3.7
2	☐	50.000	60.830	186555.40	0.4707	P	5.7
3	☐	2500.000	2942.533	8626588.62	21.3869	A	2.2
4	☐	6250.000	7487.192	21128352.55	54.3732	A	2.9
5	☐	12500.000	14256.850	40972960.64	103.5092	A	2.6
6	☐	25000.000	28736.580	81415750.89	208.6069	A	2.4
7	☐	50000.000	56075.010	156925736.8	407.0364	A	1.3
8	☐	250000.00	248288.14	682887630.0	1,802.169	A	3.9

$$y = 0.0073 * x + 0.0292$$

$$R = 0.9996$$

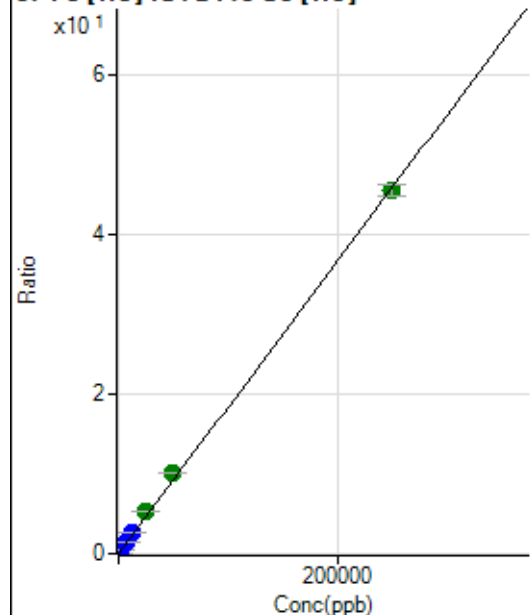
$$DL = 0.4442$$

$$BEC = 4.023$$

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	257.41	0.0006	P	1.9
2	☐	50.000	65.188	4974.98	0.0126	P	9.6
3	☐	2500.000	3040.644	225069.45	0.5581	P	3.1
4	☐	6250.000	7762.632	553259.20	1.4238	P	2.8
5	☐	12500.000	14780.868	1072839.47	2.7106	P	3.2
6	☐	25000.000	28633.372	2049319.44	5.2504	A	2.1
7	☐	50000.000	55128.936	3896901.25	10.1082	A	1.6
8	☐	250000.00	248453.60	17263399.57	45.5530	A	3.3

$$y = 1.8334\text{E-}004 * x + 6.1656\text{E-}004$$

$$R = 0.9997$$

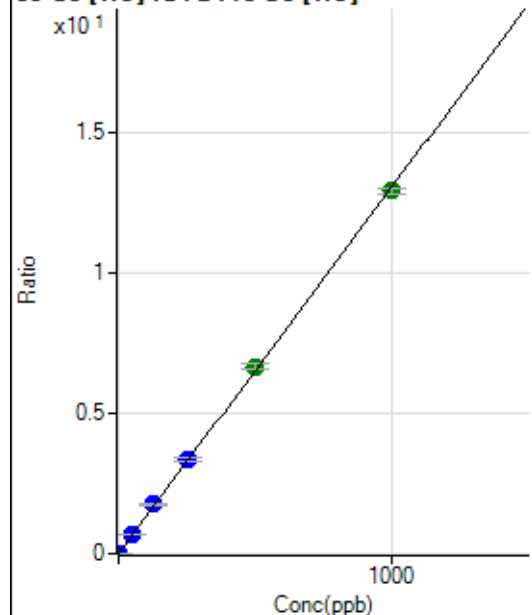
$$DL = 0.1935$$

$$BEC = 3.363$$

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	37.78	0.0001	P	13.5
2	☐	1.000	1.066	5528.85	0.0140	P	7.8
3	☐	50.000	53.384	280241.49	0.6948	P	2.6
4	☐	125.000	135.620	685816.43	1.7651	P	3.1
5	☐	250.000	257.613	1326950.35	3.3527	P	3.3
6	☐	500.000	511.795	2599548.82	6.6606	A	2.5
7	☐	1000.000	990.703	4970825.52	12.8932	A	1.3
8	☐			5557.75	0.0147	P	3.2

$$y = 0.0130 * x + 9.0515\text{E-}005$$

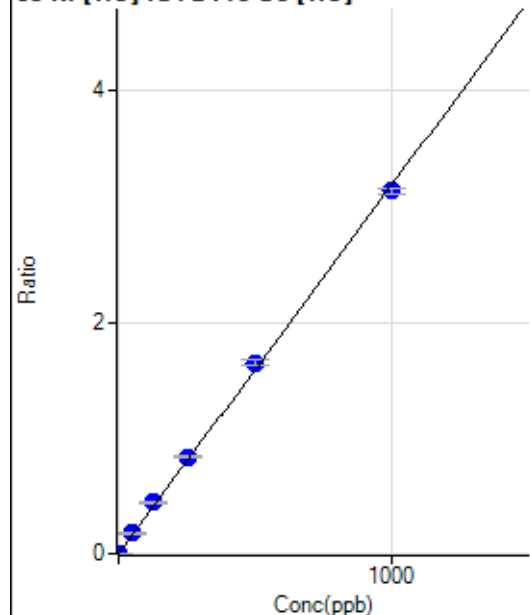
$$R = 0.9998$$

$$DL = 0.002812$$

$$BEC = 0.006955$$

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	135.56	0.0003	P	10.8
2	☐	1.000	1.200	1641.22	0.0041	P	9.7
3	☐	50.000	54.995	70749.11	0.1755	P	3.7
4	☐	125.000	139.791	173109.51	0.4455	P	3.0
5	☐	250.000	263.371	332069.92	0.8390	P	3.4
6	☐	500.000	519.222	645432.26	1.6538	P	2.5
7	☐	1000.000	984.948	1209362.71	3.1369	P	1.4
8	☐			3923.89	0.0104	P	3.2

$$y = 0.0032 * x + 3.2437E-004$$

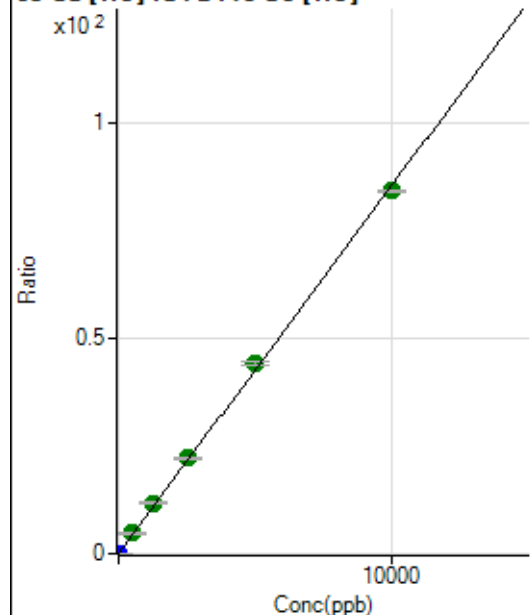
$$R = 0.9996$$

$$DL = 0.03291$$

$$BEC = 0.1019$$

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	1406.75	0.0034	P	2.7
2	☐	2.000	2.273	9027.24	0.0228	P	4.1
3	☐	500.000	552.053	1900646.13	4.7130	A	3.5
4	☐	1250.000	1380.766	4578492.81	11.7829	A	3.3
5	☐	2500.000	2599.530	8780023.13	22.1804	A	2.7
6	☐	5000.000	5184.168	17262322.52	44.2304	A	2.4
7	☐	10000.000	9864.085	32447232.85	84.1555	A	0.7
8	☐			9057.25	0.0239	P	1.0

$$y = 0.0085 * x + 0.0034$$

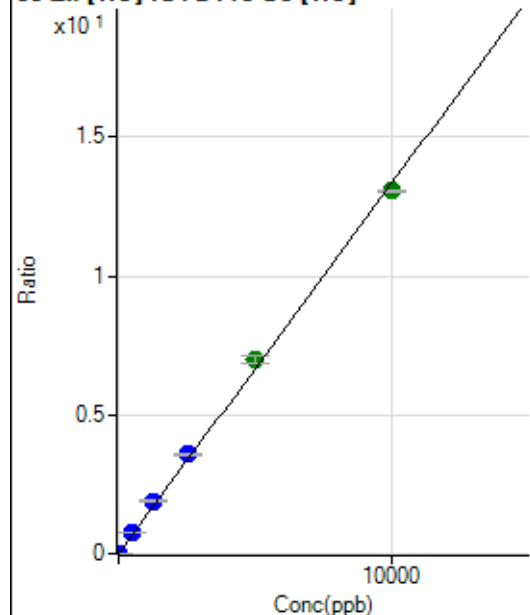
$$R = 0.9996$$

$$DL = 0.03189$$

$$BEC = 0.3951$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	361.12	0.0009	P	1.7
2	☐	2.000	4.047	2483.56	0.0063	P	4.7
3	☐	500.000	555.626	299026.67	0.7415	P	3.2
4	☐	1250.000	1428.292	740121.77	1.9047	P	2.9
5	☐	2500.000	2679.537	1414036.16	3.5726	P	3.1
6	☐	5000.000	5253.557	2733050.34	7.0037	A	3.2
7	☐	10000.000	9803.269	5038523.95	13.0684	A	0.8
8	☐			6778.27	0.0179	P	2.9

$$y = 0.0013 * x + 8.6510E-004$$

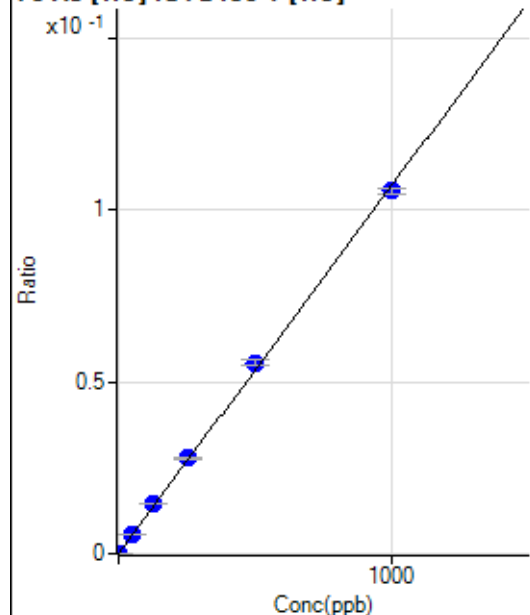
$$R = 0.9992$$

$$DL = 0.0336$$

$$BEC = 0.649$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.70	0.0000	P	85.6
2	☐	1.000	1.066	353.71	0.0001	P	4.6
3	☐	50.000	52.098	17559.75	0.0056	P	2.8
4	☐	125.000	136.215	43932.44	0.0146	P	2.5
5	☐	250.000	259.476	85410.98	0.0277	P	2.6
6	☐	500.000	519.412	169333.46	0.0555	P	2.5
7	☐	1000.000	986.418	324636.88	0.1055	P	1.3
8	☐			87.65	0.0000	P	9.4

$$y = 1.0693E-004 * x + 1.1470E-006$$

$$R = 0.9996$$

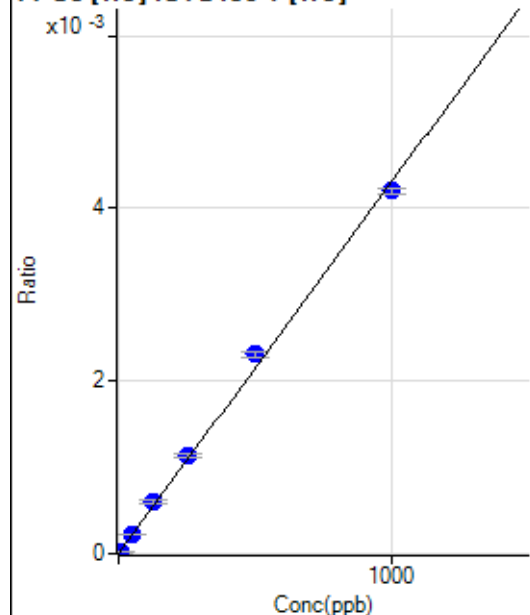
$$DL = 0.02754$$

$$BEC = 0.01073$$

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	2.22	0.0000	P	173.
2	☐	5.000	5.163	70.00	0.0000	P	9.0
3	☐	50.000	51.457	698.91	0.0002	P	8.9
4	☐	125.000	140.847	1830.13	0.0006	P	7.2
5	☐	250.000	262.668	3480.44	0.0011	P	3.7
6	☐	500.000	536.707	7042.84	0.0023	P	2.5
7	☐	1000.000	976.425	12932.42	0.0042	P	1.5
8	☐			5.55	0.0000	P	122.

$$y = 4.3026\text{E-}006 * x + 6.8420\text{E-}007$$

$$R = 0.9988$$

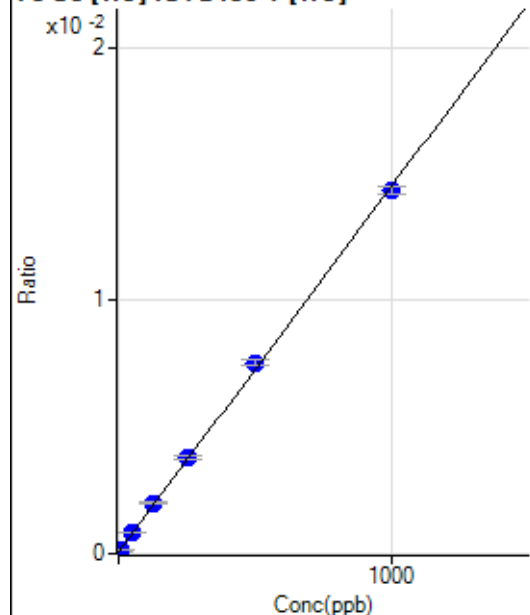
$$DL = 0.8263$$

$$BEC = 0.159$$

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	216.05	0.0001	P	12.1
2	☐	5.000	5.653	454.33	0.0001	P	14.5
3	☐	50.000	53.268	2636.05	0.0008	P	4.2
4	☐	125.000	134.108	6041.99	0.0020	P	1.6
5	☐	250.000	258.806	11705.88	0.0038	P	2.7
6	☐	500.000	517.943	22993.13	0.0075	P	3.5
7	☐	1000.000	987.521	44071.28	0.0143	P	2.2
8	☐			208.64	0.0001	P	9.7

$$y = 1.4433\text{E-}005 * x + 6.7417\text{E-}005$$

$$R = 0.9997$$

$$DL = 1.698$$

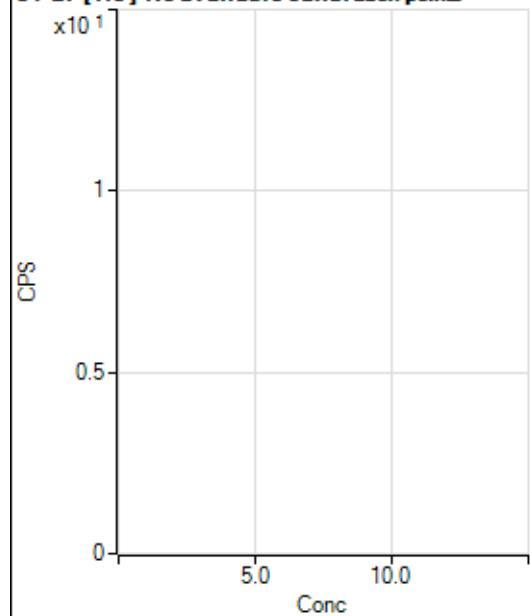
$$BEC = 4.671$$

Weight: <None>

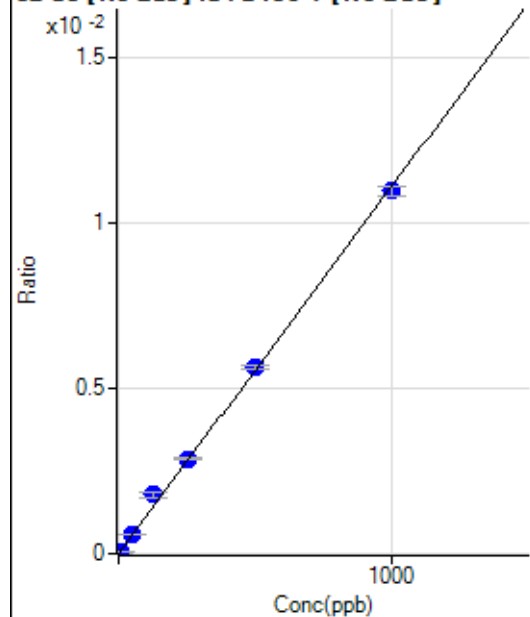
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			68546.31		P	3.0
2	☐			69316.53		P	1.4
3	☐			69734.91		P	0.8
4	☐			66640.37		P	0.4
5	☐			63651.87		P	0.7
6	☐			62770.72		P	0.8
7	☐			63049.76		P	0.3
8	☐			63124.79		P	1.8

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			206.88		P	21.8
2	☐			233.58		P	21.1
3	☐			210.22		P	26.5
4	☐			180.19		P	30.9
5	☐			210.22		P	12.6
6	☐			230.24		P	26.4
7	☐			300.31		P	14.5
8	☐			203.55		P	34.9

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.17	0.0000	P	50.6
2	☐	5.000	4.642	783.04	0.0001	P	5.1
3	☐	50.000	52.704	8186.34	0.0006	P	1.0
4	☐	125.000	161.251	20754.68	0.0018	P	10.9
5	☐	250.000	257.589	39328.91	0.0029	P	2.0
6	☐	500.000	509.572	77286.78	0.0057	P	1.6
7	☐	1000.000	988.652	147566.30	0.0110	P	2.3
8	☐			237.82	0.0000	P	13.4

$$y = 1.1089\text{E-}005 * x + 2.3021\text{E-}006$$

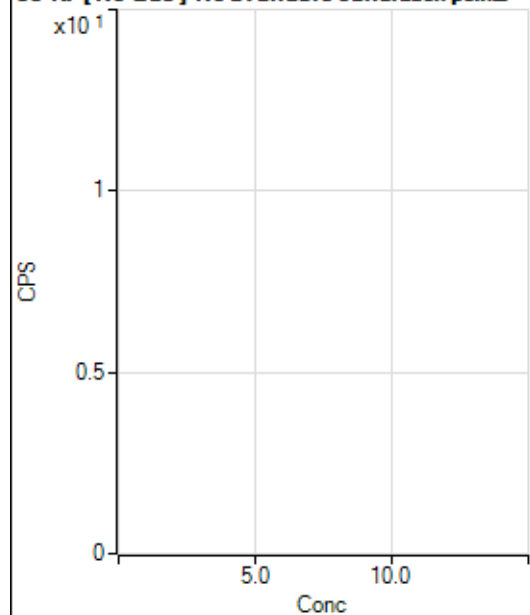
$$R = 0.9993$$

$$DL = 0.315$$

$$BEC = 0.2076$$

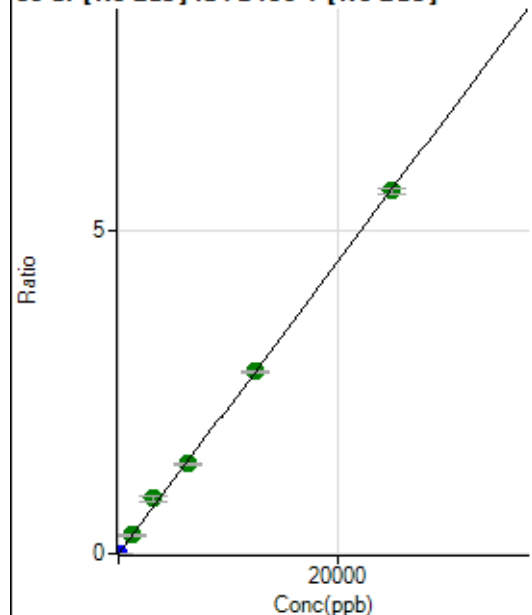
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			191.11		P	9.6
2	☐			221.12		P	6.1
3	☐			200.00		P	7.3
4	☐			188.89		P	8.3
5	☐			210.00		P	11.1
6	☐			254.45		P	3.8
7	☐			245.56		P	13.6
8	☐			292.23		P	14.7

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	461.13	0.0000	P	7.3
2	☐	1.000	0.907	3428.26	0.0002	P	4.1
3	☐	1250.000	1257.755	3940802.52	0.2825	A	2.8
4	☐	3125.000	3813.735	9930017.85	0.8565	A	10.7
5	☐	6250.000	6161.446	19036923.69	1.3837	A	2.2
6	☐	12500.000	12508.591	38408878.63	2.8091	A	1.6
7	☐	25000.000	24931.363	75347400.99	5.5990	A	1.8
8	☐			27484.58	0.0022	P	9.8

$$y = 2.2457E-004 * x + 3.2035E-005$$

R = 0.9996

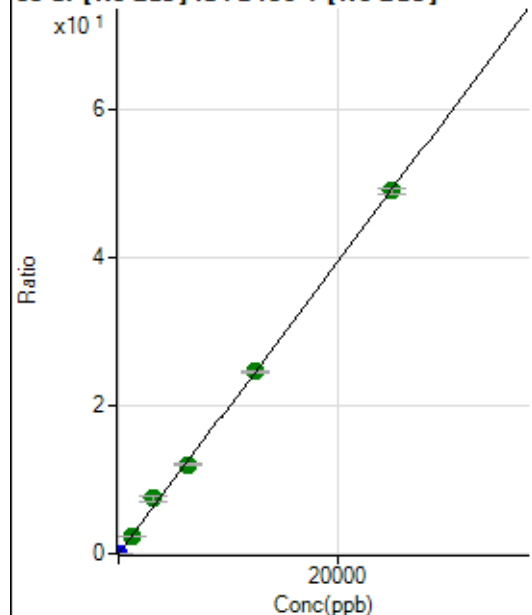
DL = 0.03122

BEC = 0.1426

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	769.48	0.0001	P	15.9
2	☐	1.000	0.915	26947.42	0.0019	P	1.5
3	☐	1250.000	1241.700	34042763.95	2.4401	A	1.5
4	☐	3125.000	3784.670	86276885.96	7.4371	A	9.7
5	☐	6250.000	6125.492	165593385.6	12.0369	A	2.3
6	☐	12500.000	12507.307	336035601.9	24.5775	A	1.2
7	☐	25000.000	24945.430	659696042.5	49.0190	A	1.4
8	☐			239949.72	0.0193	P	9.1

$$y = 0.0020 * x + 5.3571E-005$$

R = 0.9996

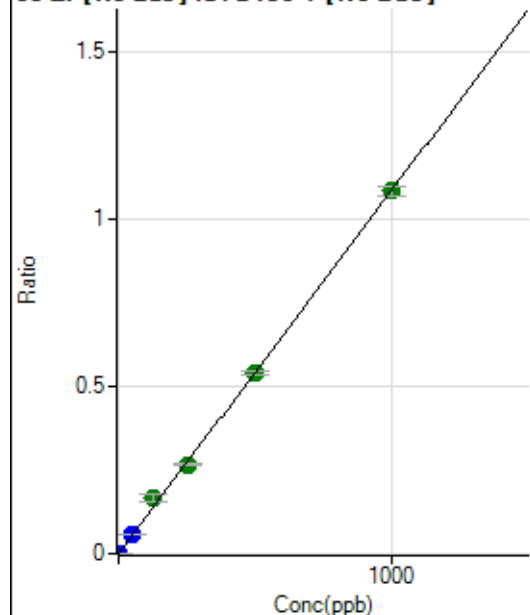
DL = 0.01304

BEC = 0.02726

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	538.91	0.0000	P	6.9
2	☐	1.000	0.908	14849.48	0.0010	P	1.8
3	☐	50.000	50.930	770128.47	0.0552	P	1.9
4	☐	125.000	154.227	1935450.87	0.1671	A	12.0
5	☐	250.000	244.477	3643527.47	0.2648	A	2.4
6	☐	500.000	496.463	7352860.58	0.5378	A	2.4
7	☐	1000.000	999.449	14567625.85	1.0826	A	2.4
8	☐			5062.12	0.0004	P	6.3

$$y = 0.0011 * x + 3.7436E-005$$

$$R = 0.9995$$

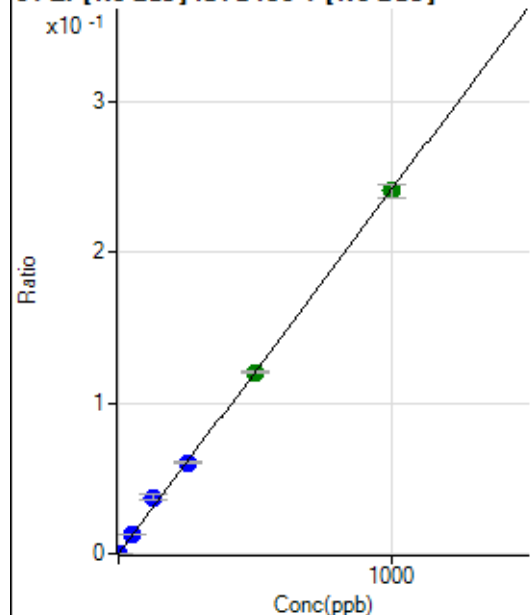
$$DL = 0.007196$$

$$BEC = 0.03456$$

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	119.45	0.0000	P	44.5
2	☐	1.000	0.918	3344.92	0.0002	P	11.5
3	☐	50.000	50.879	171589.46	0.0123	P	1.7
4	☐	125.000	154.703	433297.34	0.0374	P	10.9
5	☐	250.000	250.395	832303.90	0.0605	P	1.7
6	☐	500.000	498.356	1646061.24	0.1204	A	1.3
7	☐	1000.000	996.967	3240480.26	0.2408	A	3.7
8	☐			1061.18	0.0001	P	10.2

$$y = 2.4157E-004 * x + 8.3673E-006$$

$$R = 0.9995$$

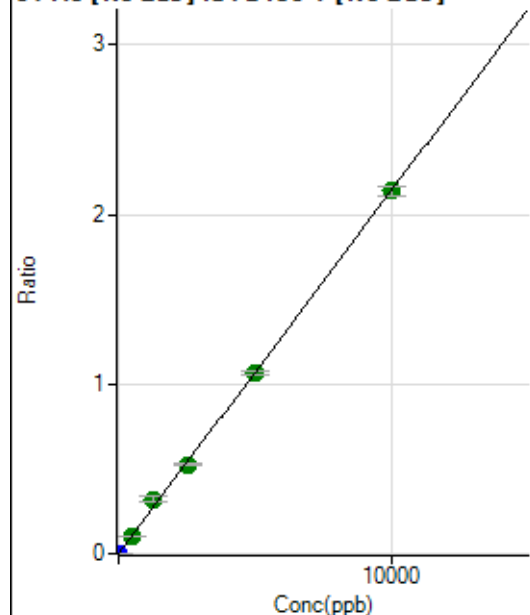
$$DL = 0.04619$$

$$BEC = 0.03464$$

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	172.23	0.0000	P	31.0
2	☐	5.000	5.527	17391.32	0.0012	P	1.4
3	☐	500.000	496.964	1484189.24	0.1064	A	1.2
4	☐	1250.000	1508.057	3740558.16	0.3228	A	11.4
5	☐	2500.000	2450.818	7217228.46	0.5246	A	1.7
6	☐	5000.000	4981.719	14577544.60	1.0662	A	2.1
7	☐	10000.000	9989.331	28770032.24	2.1380	A	2.8
8	☐			11713.33	0.0009	P	8.8

$$y = 2.1403E-004 * x + 1.2029E-005$$

$$R = 0.9996$$

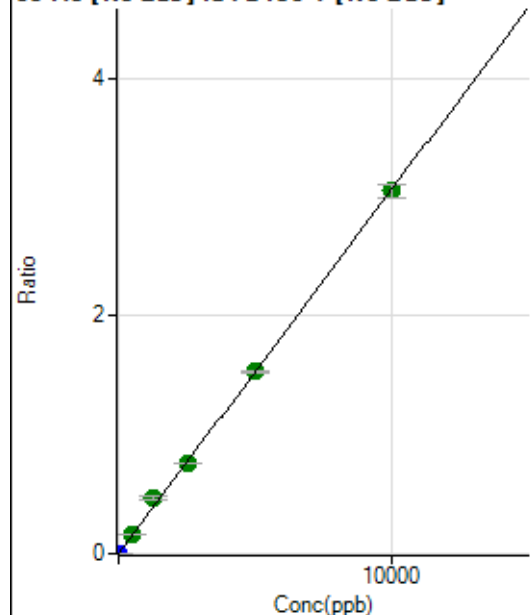
$$DL = 0.05223$$

$$BEC = 0.0562$$

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	38.89	0.0000	P	9.4
2	☐	5.000	4.835	21566.35	0.0015	P	5.7
3	☐	500.000	510.889	2182219.30	0.1564	A	1.6
4	☐	1250.000	1532.483	5440904.03	0.4692	A	10.2
5	☐	2500.000	2477.413	10435200.40	0.7585	A	1.6
6	☐	5000.000	5005.654	20952524.08	1.5325	A	1.5
7	☐	10000.000	9966.965	41056959.60	3.0514	A	3.4
8	☐			14782.84	0.0012	P	9.7

$$y = 3.0615E-004 * x + 2.6931E-006$$

$$R = 0.9996$$

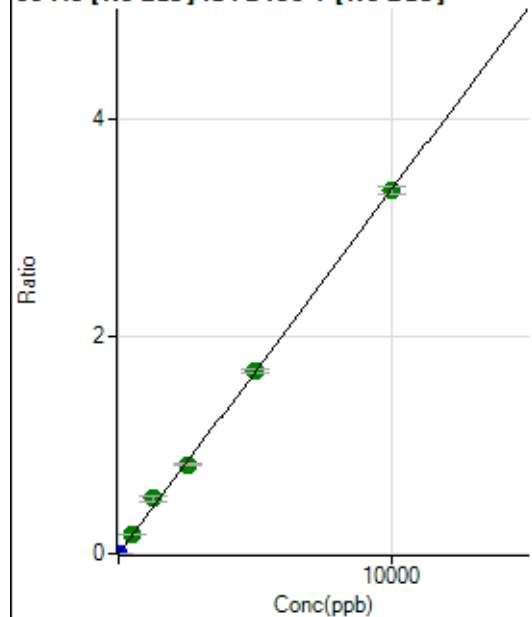
$$DL = 0.002474$$

$$BEC = 0.008797$$

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	200.01	0.0000	P	8.6
2	☐	5.000	4.762	23358.07	0.0016	P	4.6
3	☐	500.000	507.472	2366058.84	0.1696	A	2.1
4	☐	1250.000	1520.119	5889019.01	0.5080	A	10.8
5	☐	2500.000	2453.196	11278709.45	0.8198	A	2.5
6	☐	5000.000	5012.856	22902975.16	1.6752	A	1.8
7	☐	10000.000	9971.134	44840384.68	3.3321	A	2.0
8	☐			40707.50	0.0033	P	4.9

$$y = 3.3417\text{E-}004 * x + 1.3886\text{E-}005$$

$$R = 0.9996$$

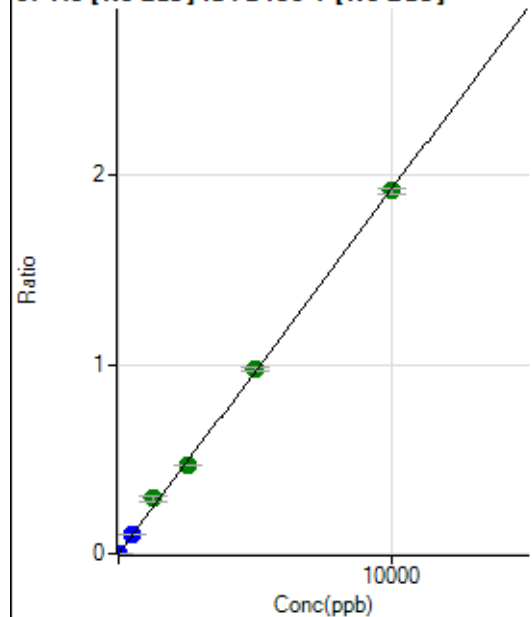
$$DL = 0.01077$$

$$BEC = 0.04155$$

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	44.44	0.0000	P	47.0
2	☐	5.000	4.978	14001.49	0.0010	P	0.3
3	☐	500.000	510.619	1372026.52	0.0983	P	1.8
4	☐	1250.000	1516.599	3385571.87	0.2921	A	11.1
5	☐	2500.000	2434.601	6450840.38	0.4689	A	1.3
6	☐	5000.000	5048.285	13292590.92	0.9722	A	2.1
7	☐	10000.000	9958.352	25811470.02	1.9179	A	1.3
8	☐			9608.98	0.0008	P	14.0

$$y = 1.9259\text{E-}004 * x + 3.1151\text{E-}006$$

$$R = 0.9996$$

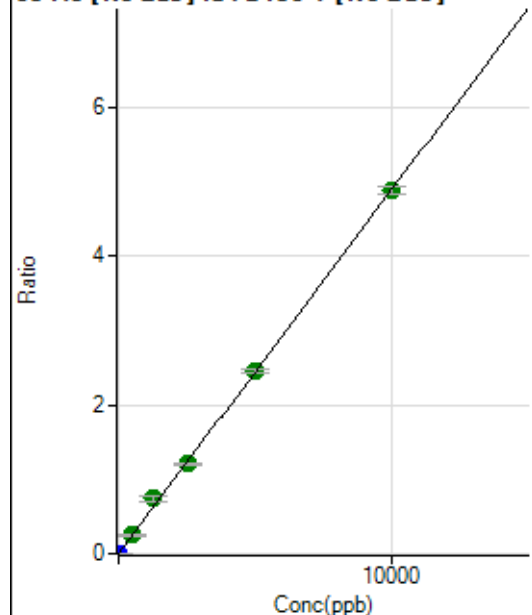
$$DL = 0.02278$$

$$BEC = 0.01617$$

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	63.89	0.0000	P	9.7
2	☐	5.000	4.853	34638.78	0.0024	P	3.6
3	☐	500.000	503.718	3441497.47	0.2467	A	1.3
4	☐	1250.000	1519.551	8625099.93	0.7441	A	11.1
5	☐	2500.000	2461.873	16585821.90	1.2056	A	2.1
6	☐	5000.000	5003.023	33494879.57	2.4499	A	2.3
7	☐	10000.000	9974.141	65728915.36	4.8842	A	2.2
8	☐			22904.75	0.0018	P	12.1

$$y = 4.8969\text{E-}004 * x + 4.4404\text{E-}006$$

$$R = 0.9996$$

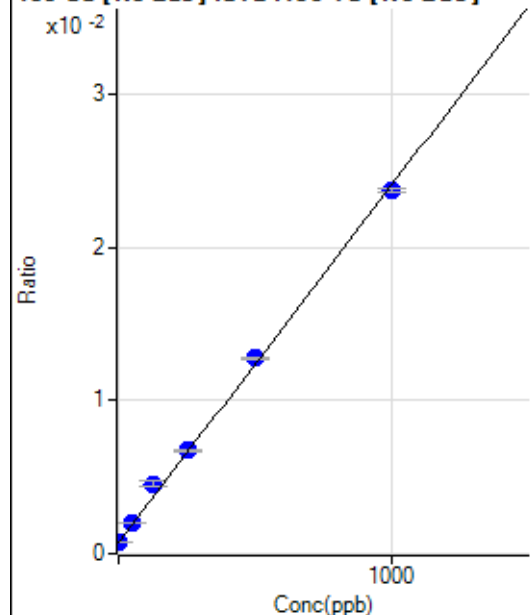
$$DL = 0.002628$$

$$BEC = 0.009068$$

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	7755.08	0.0007	P	2.3
2	☐	1.000	2.145	8422.08	0.0008	P	3.5
3	☐	50.000	55.472	21733.41	0.0020	P	1.9
4	☐	125.000	164.383	41409.92	0.0046	P	7.5
5	☐	250.000	258.368	73640.23	0.0068	P	2.2
6	☐	500.000	516.883	137795.80	0.0128	P	0.8
7	☐	1000.000	984.269	254046.07	0.0237	P	1.1
8	☐			6534.99	0.0007	P	4.6

$$y = 2.3372\text{E-}005 * x + 7.1582\text{E-}004$$

$$R = 0.9991$$

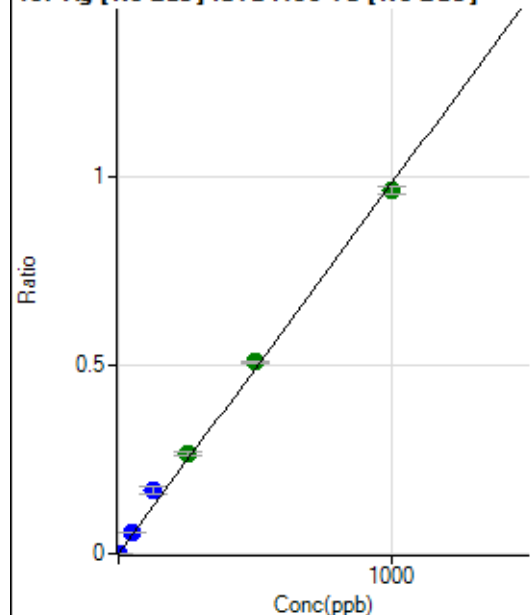
$$DL = 2.104$$

$$BEC = 30.63$$

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	116.67	0.0000	P	31.9
2	☐	1.000	1.022	11132.36	0.0010	P	2.0
3	☐	50.000	56.892	602141.59	0.0558	P	3.1
4	☐	125.000	169.902	1509357.45	0.1665	P	11.3
5	☐	250.000	269.575	2880034.16	0.2642	A	3.9
6	☐	500.000	517.638	5463166.18	0.5073	A	0.8
7	☐	1000.000	980.330	10289576.88	0.9608	A	2.2
8	☐			6093.08	0.0006	P	2.7

$$y = 9.8007\text{E-}004 * x + 1.0757\text{E-}005$$

$$R = 0.9987$$

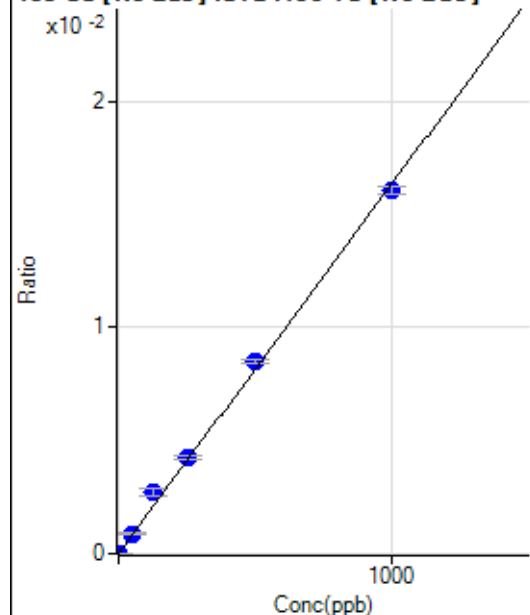
$$DL = 0.01052$$

$$BEC = 0.01098$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19.44	0.0000	P	32.6
2	☐	1.000	1.134	222.23	0.0000	P	27.5
3	☐	50.000	54.216	9586.60	0.0009	P	3.2
4	☐	125.000	166.246	24648.78	0.0027	P	11.0
5	☐	250.000	259.901	46316.74	0.0042	P	4.6
6	☐	500.000	519.744	91484.66	0.0085	P	1.9
7	☐	1000.000	982.286	171949.09	0.0161	P	2.1
8	☐			111.11	0.0000	P	23.6

$$y = 1.6343\text{E-}005 * x + 1.7950\text{E-}006$$

$$R = 0.9989$$

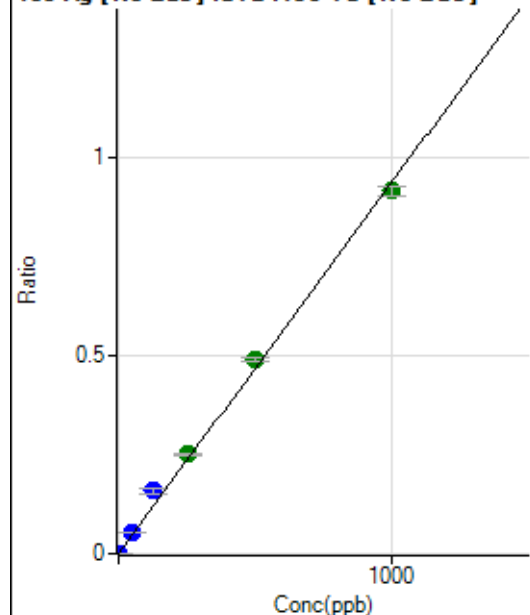
$$DL = 0.1073$$

$$BEC = 0.1098$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	41.67	0.0000	P	39.9
2	☐	1.000	1.047	10820.97	0.0010	P	4.7
3	☐	50.000	56.607	572637.10	0.0530	P	3.4
4	☐	125.000	169.439	1439155.25	0.1588	P	11.1
5	☐	250.000	267.267	2729708.87	0.2504	A	3.3
6	☐	500.000	523.019	5276428.81	0.4900	A	1.8
7	☐	1000.000	978.289	9815369.49	0.9166	A	2.9
8	☐			5962.47	0.0006	P	5.5

$$y = 9.3691\text{E-}004 * x + 3.8491\text{E-}006$$

$$R = 0.9986$$

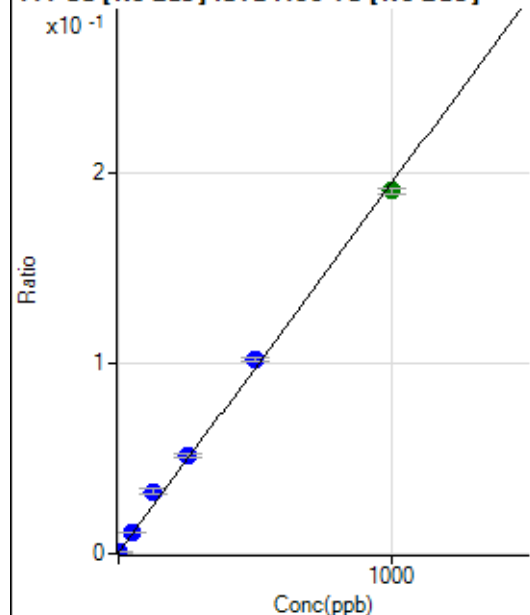
$$DL = 0.004916$$

$$BEC = 0.004108$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5421.89	0.0005	P	2.3
2	☐	1.000	1.153	7962.32	0.0007	P	2.9
3	☐	50.000	54.925	120436.64	0.0112	P	2.1
4	☐	125.000	166.451	297204.66	0.0328	P	11.0
5	☐	250.000	262.976	561435.56	0.0515	P	3.7
6	☐	500.000	523.542	1098718.98	0.1020	P	2.1
7	☐	1000.000	979.557	2040040.55	0.1905	A	1.6
8	☐			5388.43	0.0006	P	4.6

$$y = 1.9394\text{E-}004 * x + 5.0045\text{E-}004$$

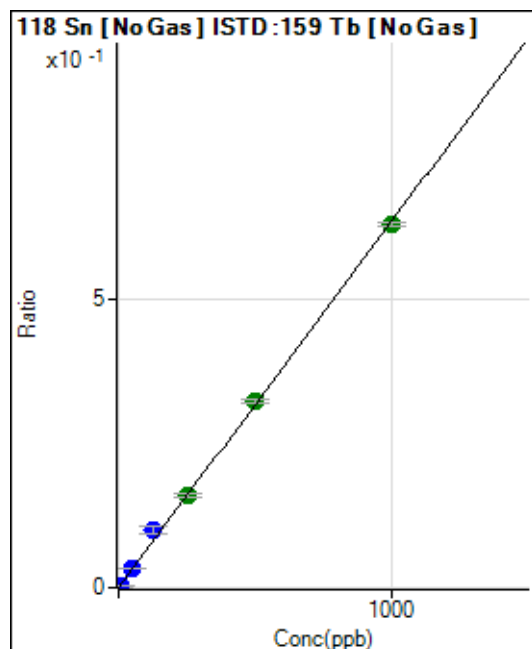
$$R = 0.9987$$

$$DL = 0.1745$$

$$BEC = 2.58$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	841.71	0.0001	P	24.8
2	☐	5.000	4.988	35750.64	0.0033	P	3.5
3	☐	50.000	51.889	357234.76	0.0331	P	3.8
4	☐	125.000	157.094	906707.18	0.1000	P	11.2
5	☐	250.000	253.230	1757044.57	0.1612	A	3.4
6	☐	500.000	509.023	3487825.60	0.3239	A	2.3
7	☐	1000.000	990.575	6750529.71	0.6303	A	0.9
8	☐			7282.58	0.0008	P	0.4

$$y = 6.3621\text{E-}004 * x + 7.7702\text{E-}005$$

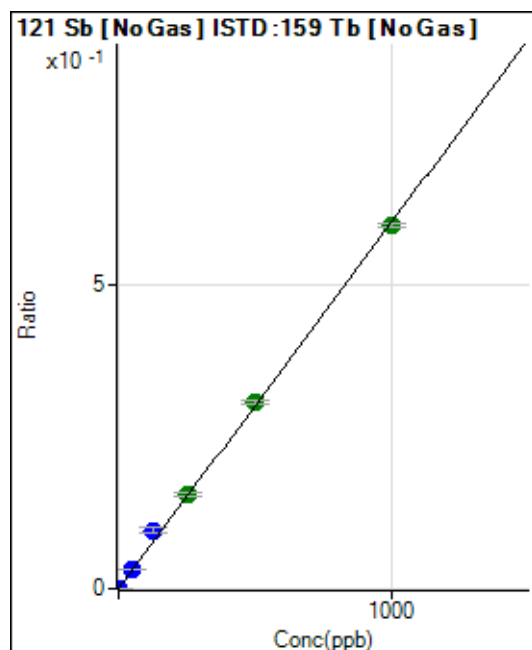
$$R = 0.9994$$

$$DL = 0.09104$$

$$BEC = 0.1221$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.56	0.0000	P	95.6
2	☐	2.000	1.917	12736.56	0.0012	P	3.5
3	☐	50.000	52.425	341135.49	0.0316	P	3.8
4	☐	125.000	159.528	871663.04	0.0961	P	11.0
5	☐	250.000	255.475	1678161.90	0.1540	A	4.6
6	☐	500.000	507.422	3292899.03	0.3058	A	2.1
7	☐	1000.000	990.483	6393415.46	0.5969	A	0.9
8	☐			4167.37	0.0004	P	2.1

$$y = 6.0268\text{E-}004 * x + 2.7923\text{E-}006$$

$$R = 0.9994$$

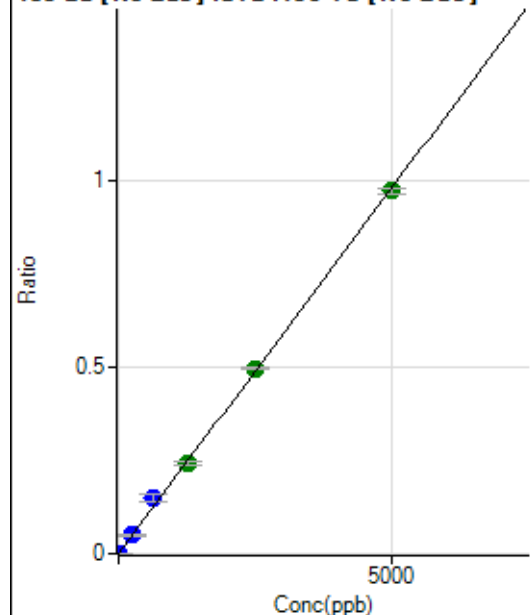
$$DL = 0.01329$$

$$BEC = 0.004633$$

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	19.45	0.0000	P	24.1
2	☐	10.000	9.106	19672.36	0.0018	P	3.6
3	☐	250.000	251.116	532194.94	0.0493	P	3.2
4	☐	625.000	764.908	1360914.53	0.1501	P	11.3
5	☐	1250.000	1238.974	2651051.88	0.2432	A	3.6
6	☐	2500.000	2538.681	5366061.84	0.4983	A	1.5
7	☐	5000.000	4965.874	10439062.30	0.9747	A	1.7
8	☐			6318.24	0.0007	P	7.7

$$y = 1.9628\text{E-}004 * x + 1.7934\text{E-}006$$

$$R = 0.9995$$

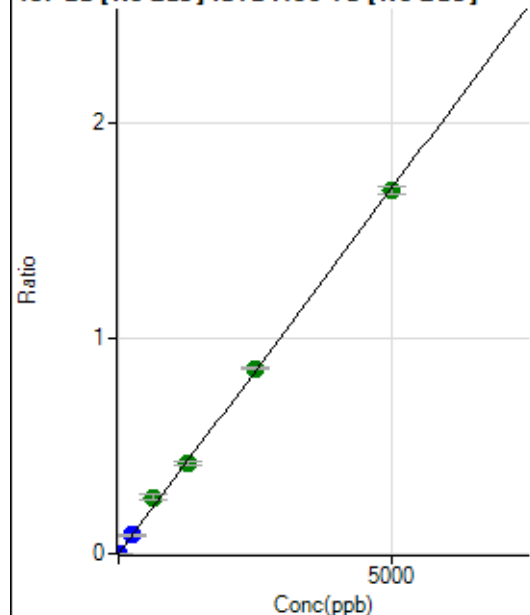
$$DL = 0.006609$$

$$BEC = 0.009137$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	41.67	0.0000	P	21.4
2	☐	10.000	9.213	34422.88	0.0031	P	1.8
3	☐	250.000	251.494	921296.08	0.0853	P	2.4
4	☐	625.000	774.702	2382541.94	0.2628	A	11.0
5	☐	1250.000	1233.442	4561560.26	0.4184	A	3.7
6	☐	2500.000	2535.345	9261700.03	0.8601	A	1.6
7	☐	5000.000	4967.681	18047761.69	1.6852	A	2.0
8	☐			10821.07	0.0011	P	4.2

$$y = 3.3923\text{E-}004 * x + 3.8528\text{E-}006$$

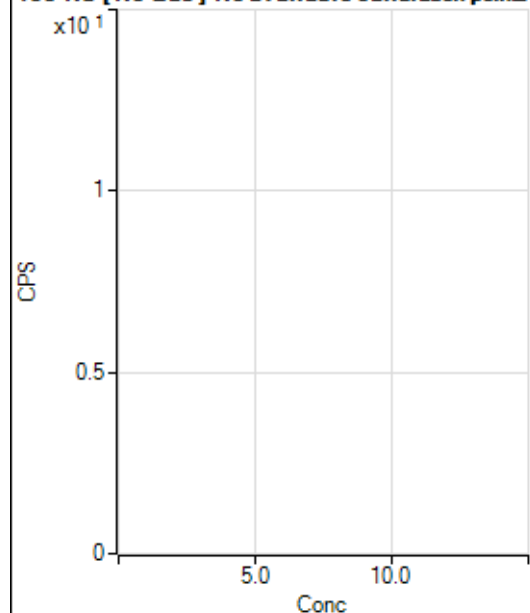
$$R = 0.9995$$

$$DL = 0.00729$$

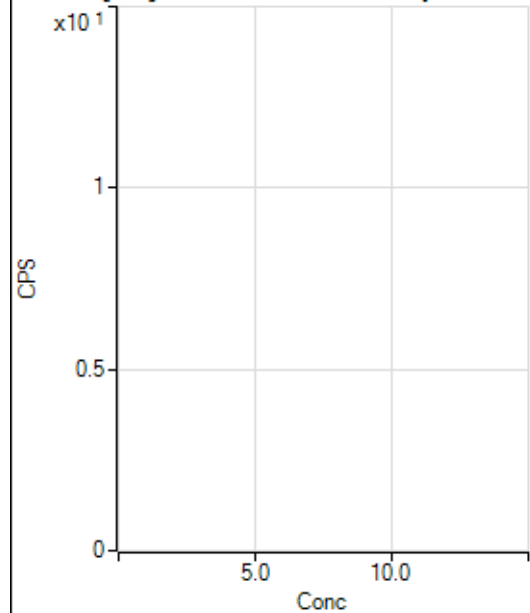
$$BEC = 0.01136$$

Weight: <None>

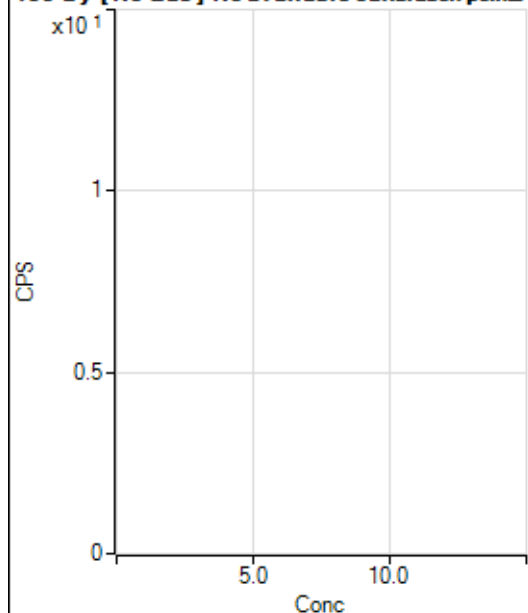
Min Conc: 0

150 Nd [No Gas] No available calibration points

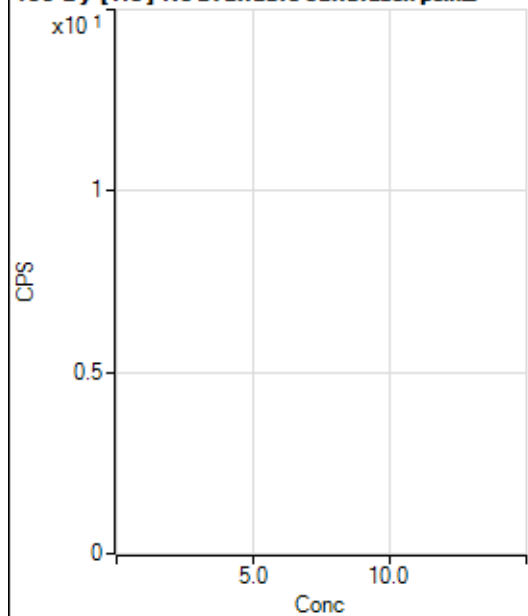
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	34.6
2	☐			11.11		P	34.6
3	☐			140.01		P	20.8
4	☐			308.90		P	15.3
5	☐			684.48		P	8.1
6	☐			1293.42		P	9.1
7	☐			2660.31		P	6.8
8	☐			66.67		P	36.1

150 Nd [He] No available calibration points

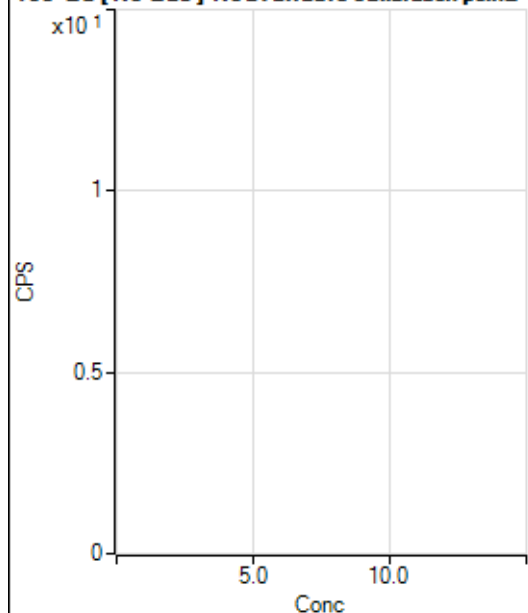
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			10.00		P	66.7
3	☐			24.45		P	28.4
4	☐			56.67		P	15.6
5	☐			107.78		P	21.9
6	☐			247.78		P	4.7
7	☐			413.35		P	11.2
8	☐			47.78		P	14.5

156 Dy [No Gas] No available calibration points

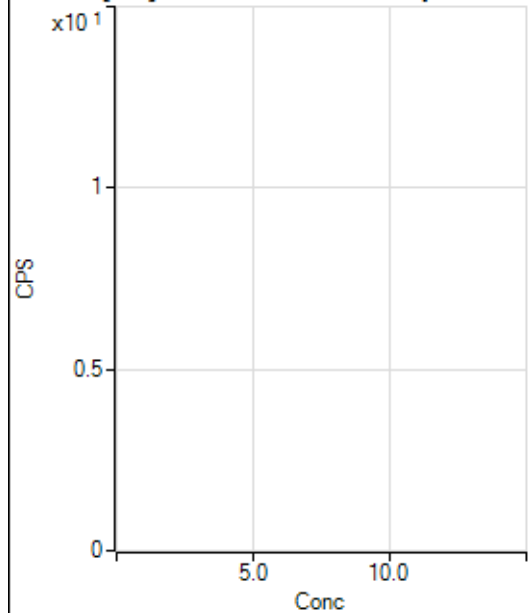
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐			8.33		P	100.
3	☐			27.78		P	45.8
4	☐			100.01		P	28.9
5	☐			177.78		P	9.8
6	☐			302.79		P	35.8
7	☐			805.61		P	7.3
8	☐			2000.20		P	9.1

156 Dy [He] No available calibration points

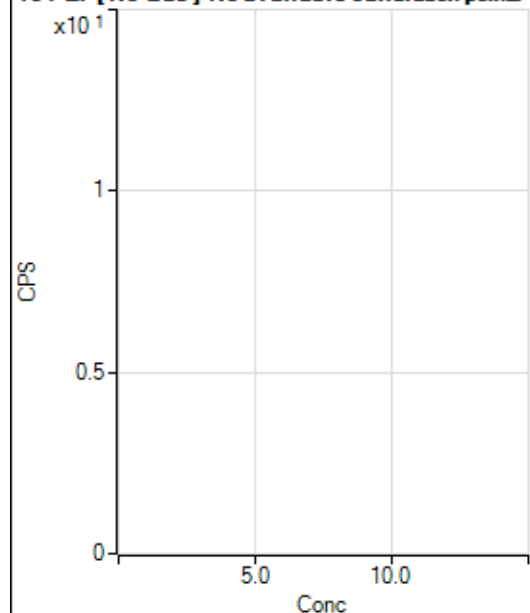
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			7.78		P	137.
3	☐			23.33		P	37.8
4	☐			97.78		P	12.9
5	☐			185.56		P	2.7
6	☐			394.45		P	16.5
7	☐			652.24		P	4.0
8	☐			1136.72		P	9.7

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

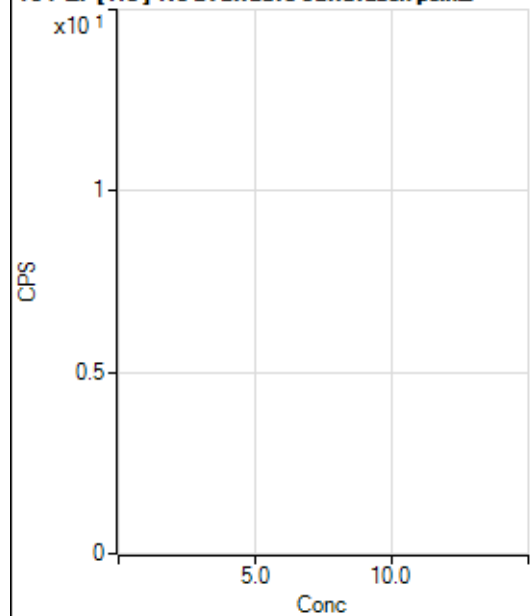
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	20.8
2	☐			88.89		P	39.0
3	☐			86.11		P	40.3
4	☐			136.12		P	18.7
5	☐			208.34		P	12.0
6	☐			288.90		P	8.8
7	☐			530.58		P	10.7
8	☐			1922.41		P	5.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			378.90		P	2.2
2	☐			346.67		P	5.8
3	☐			396.67		P	3.9
4	☐			383.34		P	7.4
5	☐			442.23		P	1.2
6	☐			531.13		P	6.7
7	☐			638.91		P	5.4
8	☐			1663.45		P	5.4

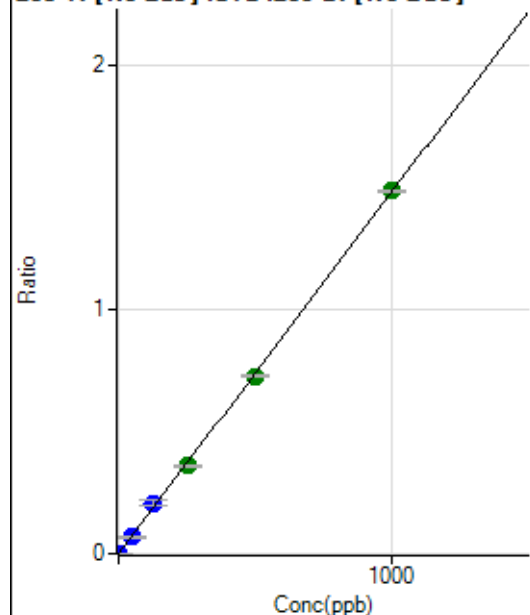
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			69.44		P	76.2
2	☐			83.34		P	36.1
3	☐			94.45		P	18.4
4	☐			75.00		P	22.2
5	☐			86.11		P	39.1
6	☐			116.67		P	37.8
7	☐			113.89		P	18.4
8	☐			125.00		P	26.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	40.5
2	☐			42.22		P	46.3
3	☐			50.00		P	11.5
4	☐			63.33		P	22.9
5	☐			56.67		P	27.0
6	☐			64.44		P	7.9
7	☐			78.89		P	30.0
8	☐			112.22		P	22.7

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	216.67	0.0000	P	6.0
2	☐	1.000	0.812	9033.81	0.0012	P	0.7
3	☐	50.000	45.374	474255.84	0.0671	P	1.3
4	☐	125.000	139.524	1228322.16	0.2062	P	10.8
5	☐	250.000	242.817	2509828.85	0.3588	A	2.3
6	☐	500.000	492.156	4930399.55	0.7272	A	1.0
7	☐	1000.000	1004.134	9598788.41	1.4837	A	0.8
8	☐			2353.05	0.0005	P	4.9

$$y = 0.0015 * x + 2.9923E-005$$

$$R = 0.9998$$

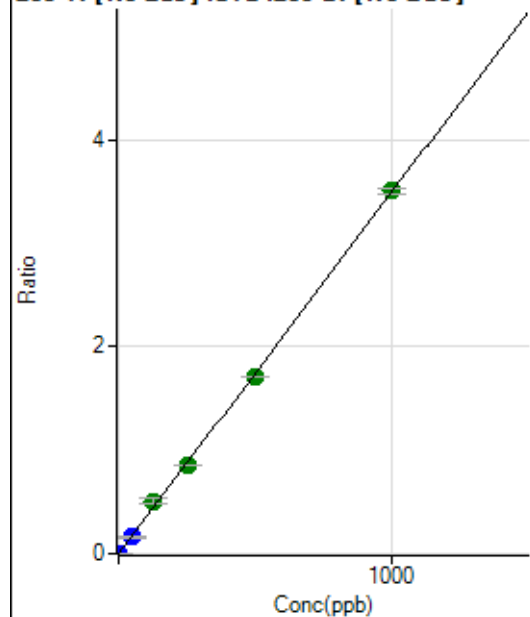
$$DL = 0.003662$$

$$BEC = 0.02025$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	486.13	0.0001	P	16.9
2	☐	1.000	0.818	21439.56	0.0029	P	2.8
3	☐	50.000	45.373	1119630.40	0.1583	P	1.2
4	☐	125.000	145.807	3031979.02	0.5087	A	10.0
5	☐	250.000	243.242	5936672.88	0.8486	A	0.8
6	☐	500.000	489.868	11585961.46	1.7089	A	0.3
7	☐	1000.000	1004.386	22666957.97	3.5037	A	1.3
8	☐			5567.96	0.0011	P	13.8

$$y = 0.0035 * x + 6.7040E-005$$

$$R = 0.9996$$

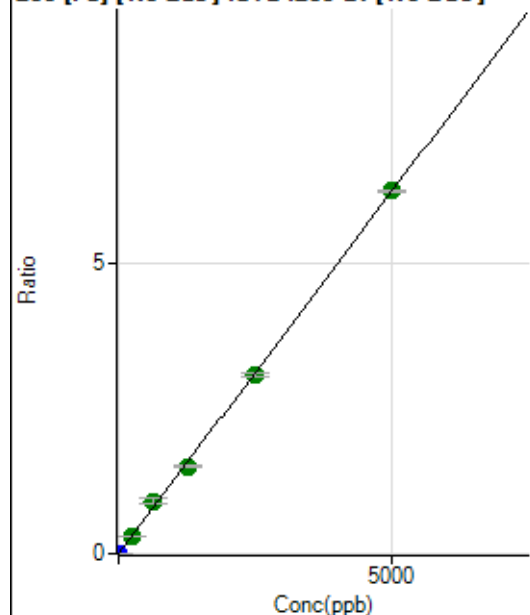
$$DL = 0.009763$$

$$BEC = 0.01922$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	546.32	0.0001	P	5.7
2	☐	1.000	0.829	8141.47	0.0011	P	2.3
3	☐	250.000	239.388	2108597.94	0.2982	A	2.0
4	☐	625.000	727.718	5398885.19	0.9064	A	11.1
5	☐	1250.000	1199.521	10450373.04	1.4939	A	1.7
6	☐	2500.000	2470.968	20864116.44	3.0774	A	1.5
7	☐	5000.000	5014.827	40405952.29	6.2454	A	0.8
8	☐			11013.91	0.0021	P	9.1

$$y = 0.0012 * x + 7.5492E-005$$

$$R = 0.9996$$

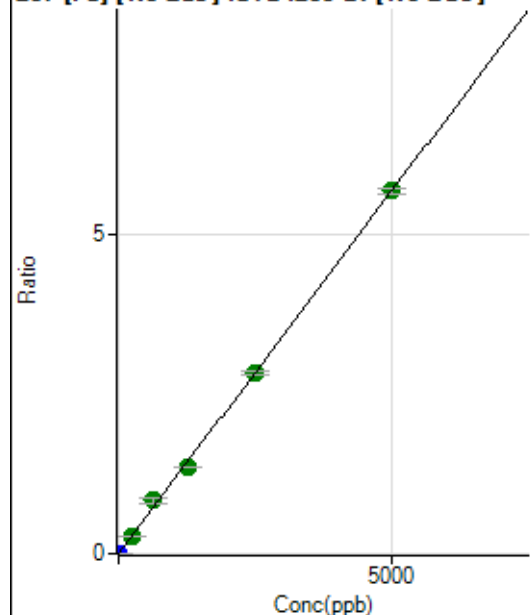
$$DL = 0.01038$$

$$BEC = 0.06062$$

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	518.54	0.0001	P	12.6
2	☐	1.000	0.785	7066.77	0.0010	P	1.4
3	☐	250.000	239.734	1922715.32	0.2719	A	1.3
4	☐	625.000	730.320	4928244.04	0.8282	A	12.7
5	☐	1250.000	1196.590	9493289.68	1.3570	A	0.8
6	☐	2500.000	2490.193	19145091.63	2.8238	A	1.9
7	☐	5000.000	5005.604	36722654.99	5.6762	A	1.3
8	☐			9779.60	0.0019	P	7.7

$$y = 0.0011 * x + 7.1523E-005$$

$$R = 0.9997$$

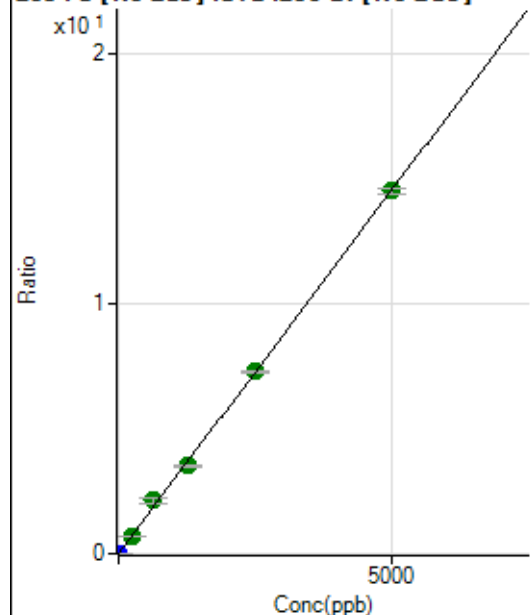
$$DL = 0.02387$$

$$BEC = 0.06307$$

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	1406.58	0.0002	P	5.1
2	☐	1.000	0.789	18229.46	0.0025	P	3.5
3	☐	250.000	243.474	4998310.54	0.7069	A	0.6
4	☐	625.000	733.032	12675460.98	2.1278	A	10.9
5	☐	1250.000	1211.653	24608242.70	3.5170	A	1.7
6	☐	2500.000	2504.003	49276211.17	7.2680	A	1.3
7	☐	5000.000	4994.408	93786065.43	14.4964	A	1.8
8	☐			25930.30	0.0050	P	9.1

$$y = 0.0029 * x + 1.9429E-004$$

$$R = 0.9997$$

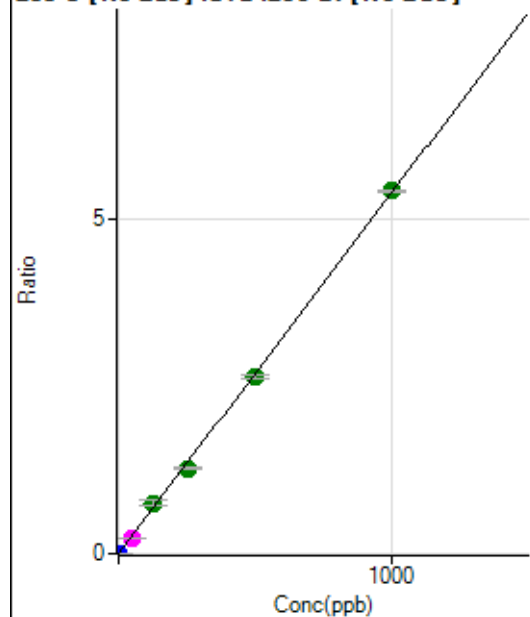
$$DL = 0.01015$$

$$BEC = 0.06694$$

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	47.22	0.0000	P	70.9
2	☐	1.000	0.767	30357.53	0.0041	P	3.2
3	☐	50.000	42.925	1633152.47	0.2310	M	5.0
4	☐	125.000	140.648	4509138.56	0.7567	A	10.5
5	☐	250.000	236.346	8895557.06	1.2716	A	2.2
6	☐	500.000	490.601	17896313.60	2.6396	A	1.2
7	☐	1000.000	1006.511	35036247.66	5.4154	A	0.6
8	☐			5492.98	0.0011	P	17.3

$$y = 0.0054 * x + 6.4670E-006$$

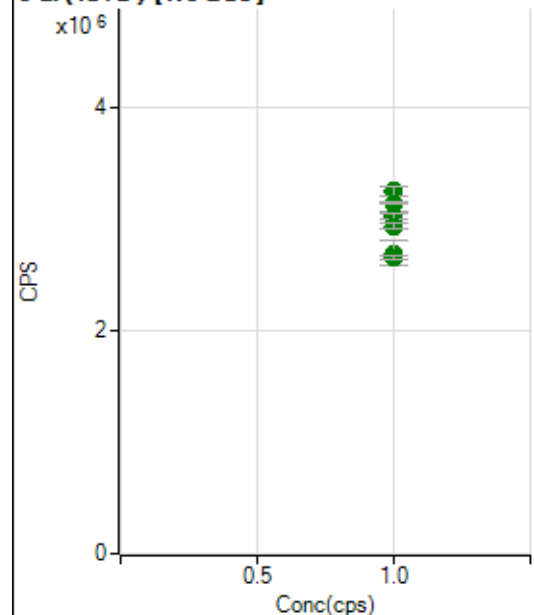
$$R = 0.9996$$

$$DL = 0.002555$$

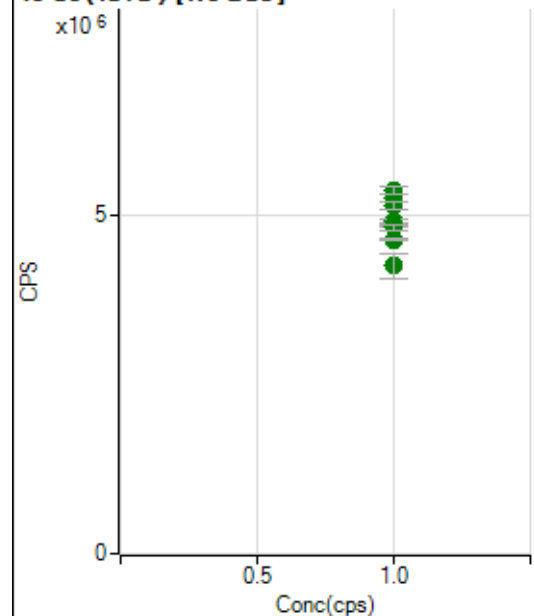
$$BEC = 0.001202$$

Weight: <None>

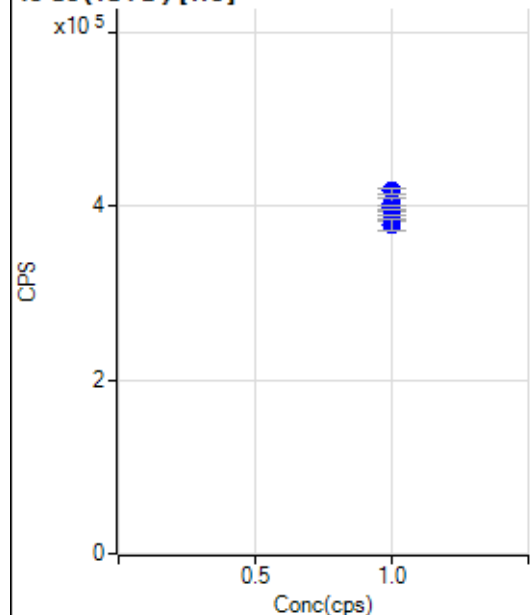
Min Conc: 0

6 Li (ISTD) [No Gas]

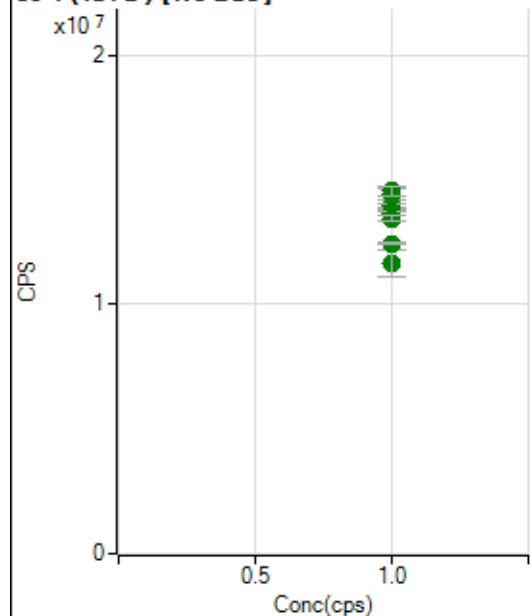
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3252606.10		A	2.7
2	☐	1.000		3257245.26		A	2.6
3	☐	1.000		3150276.66		A	1.0
4	☐	1.000		2700002.93		A	8.7
5	☐	1.000		3034686.90		A	2.0
6	☐	1.000		3026672.84		A	1.9
7	☐	1.000		2940578.67		A	2.0
8	☐	1.000		2664743.14		A	1.3

45 Sc (ISTD) [No Gas]

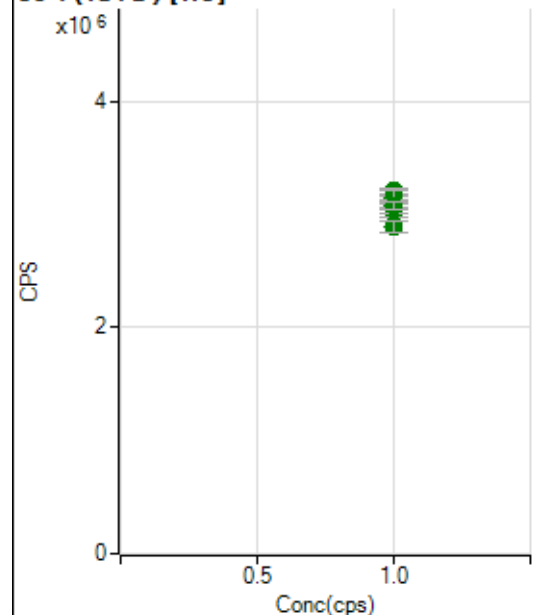
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5240899.61		A	2.0
2	☐	1.000		5348699.96		A	2.0
3	☐	1.000		5122574.75		A	2.2
4	☐	1.000		4240197.26		A	9.1
5	☐	1.000		4907062.78		A	1.2
6	☐	1.000		4839351.80		A	0.3
7	☐	1.000		4813075.52		A	2.0
8	☐	1.000		4622573.85		A	0.6

45 Sc (ISTD) [He]

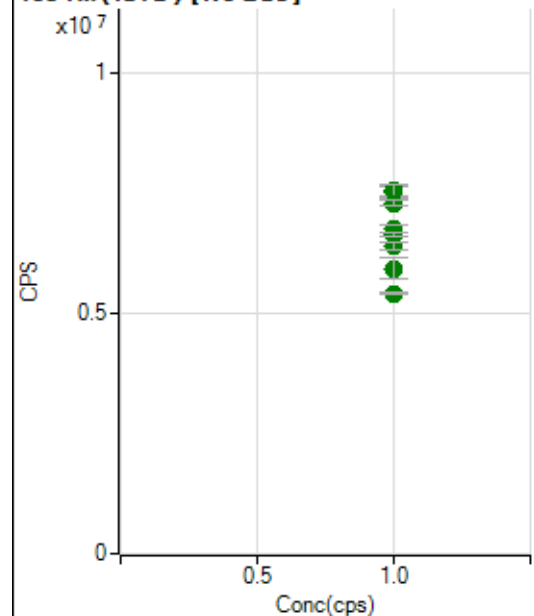
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		417445.32		P	1.8
2	☐	1.000		397224.83		P	6.2
3	☐	1.000		403539.98		P	3.2
4	☐	1.000		388720.89		P	2.1
5	☐	1.000		396026.91		P	2.8
6	☐	1.000		390454.46		P	2.7
7	☐	1.000		385580.57		P	1.5
8	☐	1.000		379275.88		P	3.6

89 Y (ISTD) [No Gas]

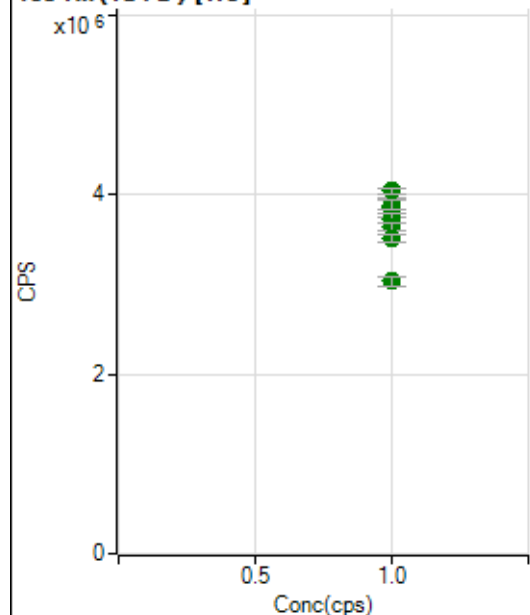
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14411956.87		A	3.2
2	☐	1.000		14557191.17		A	2.8
3	☐	1.000		13953370.76		A	1.2
4	☐	1.000		11672079.55		A	9.4
5	☐	1.000		13758741.05		A	0.9
6	☐	1.000		13673378.41		A	1.0
7	☐	1.000		13460056.05		A	1.6
8	☐	1.000		12460906.20		A	0.5

89 Y(ISTD) [He]

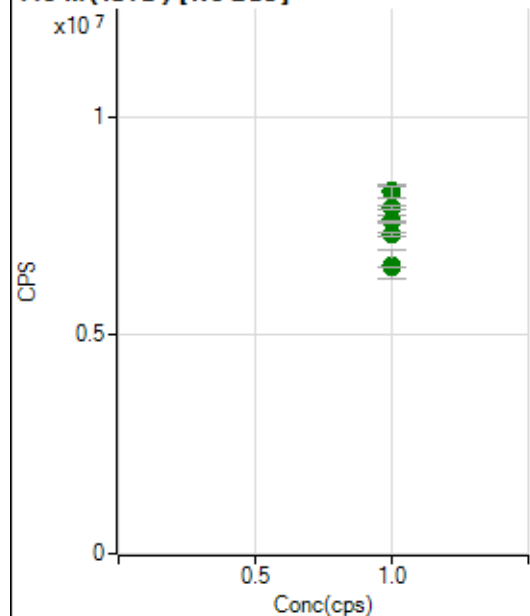
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3208809.61		A	1.6
2	☐	1.000		3067074.50		A	6.3
3	☐	1.000		3153600.16		A	3.6
4	☐	1.000		3017250.20		A	2.4
5	☐	1.000		3079822.73		A	2.8
6	☐	1.000		3050131.28		A	2.5
7	☐	1.000		3078301.20		A	1.8
8	☐	1.000		2891420.48		A	3.3

103 Rh(ISTD) [No Gas]

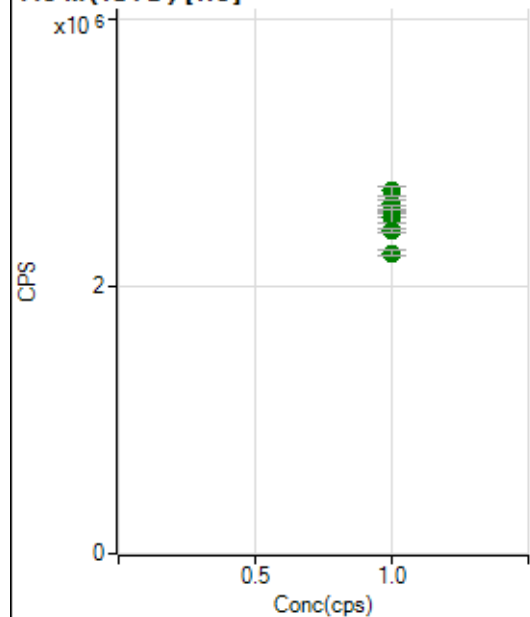
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7517342.32		A	2.7
2	☐	1.000		7538542.39		A	3.7
3	☐	1.000		7276028.43		A	1.7
4	☐	1.000		5922349.77		A	7.7
5	☐	1.000		6748444.35		A	2.1
6	☐	1.000		6643724.07		A	1.1
7	☐	1.000		6391497.13		A	2.4
8	☐	1.000		5395561.17		A	0.7

103 Rh (ISTD) [He]

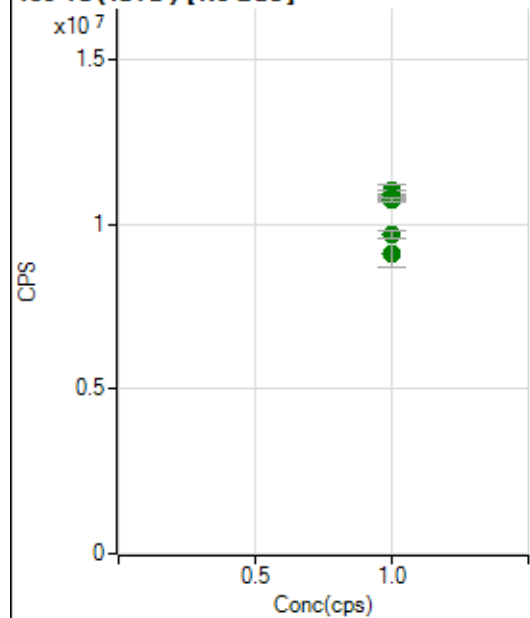
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4037876.40		A	1.7
2	☐	1.000		3852484.28		A	6.1
3	☐	1.000		3884381.09		A	2.3
4	☐	1.000		3716861.44		A	1.8
5	☐	1.000		3728283.24		A	2.9
6	☐	1.000		3630861.68		A	2.5
7	☐	1.000		3500981.89		A	2.4
8	☐	1.000		3028711.41		A	3.6

115 In (ISTD) [No Gas]

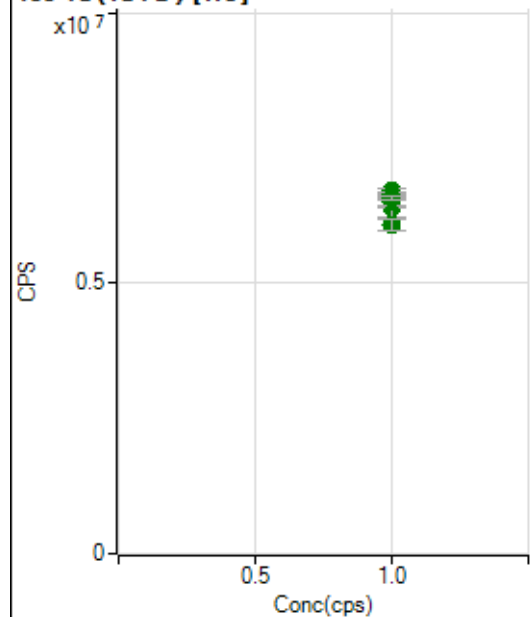
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8301283.51		A	3.9
2	☐	1.000		8263076.76		A	3.0
3	☐	1.000		7923067.04		A	0.7
4	☐	1.000		6608411.64		A	9.7
5	☐	1.000		7672068.28		A	2.3
6	☐	1.000		7592239.51		A	0.4
7	☐	1.000		7304868.94		A	1.1
8	☐	1.000		6571630.34		A	0.2

115 In (ISTD) [He]

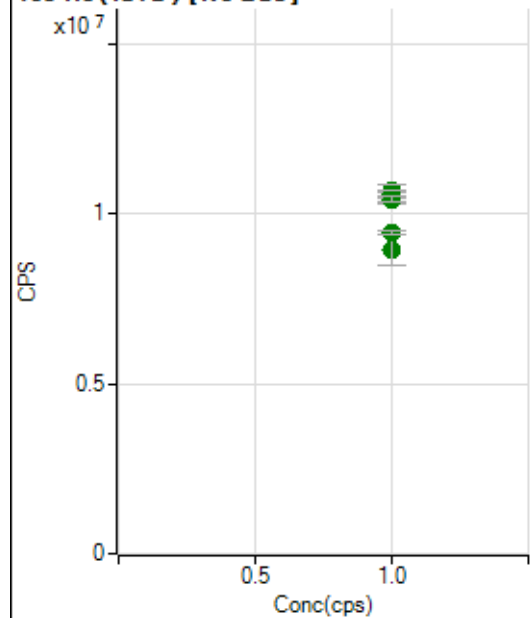
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2719132.33		A	2.3
2	☐	1.000		2620384.51		A	4.7
3	☐	1.000		2615543.64		A	3.3
4	☐	1.000		2550767.58		A	2.3
5	☐	1.000		2580213.53		A	2.5
6	☐	1.000		2525857.84		A	3.7
7	☐	1.000		2420482.42		A	1.7
8	☐	1.000		2255412.86		A	2.5

159 Tb (ISTD) [No Gas]

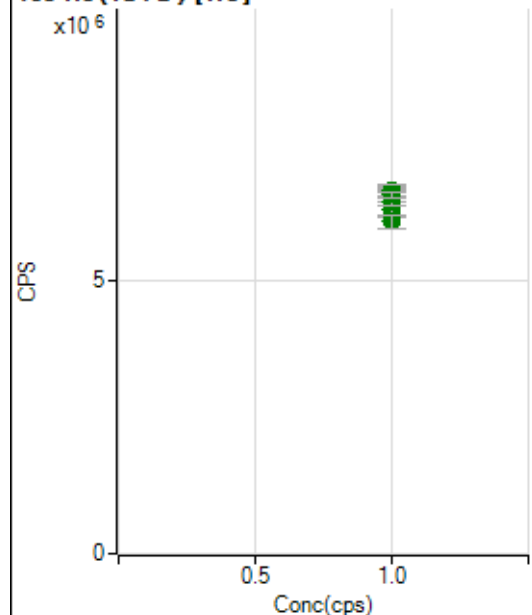
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10835067.55		A	1.6
2	☐	1.000		11005374.49		A	3.8
3	☐	1.000		10802276.51		A	2.4
4	☐	1.000		9128450.90		A	9.4
5	☐	1.000		10905700.11		A	2.0
6	☐	1.000		10769078.66		A	1.1
7	☐	1.000		10710838.59		A	1.0
8	☐	1.000		9705555.69		A	2.4

159 Tb (ISTD) [He]

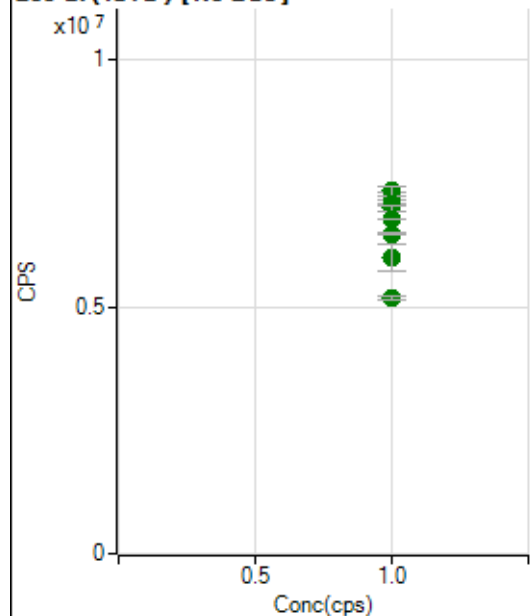
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6662091.98		A	2.7
2	☐	1.000		6404183.65		A	5.3
3	☐	1.000		6532743.45		A	4.2
4	☐	1.000		6510023.38		A	2.7
5	☐	1.000		6710323.93		A	1.4
6	☐	1.000		6644047.26		A	1.8
7	☐	1.000		6577814.62		A	1.1
8	☐	1.000		6070666.58		A	3.5

165 Ho (ISTD) [No Gas]

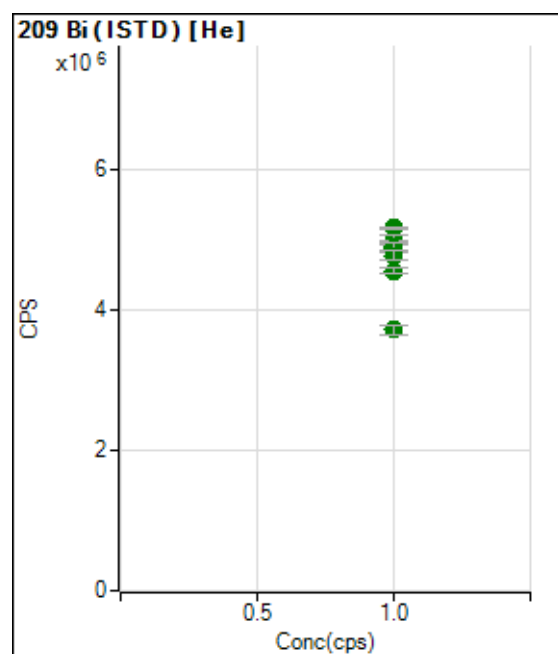
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10567961.58		A	1.8
2	☐	1.000		10682034.35		A	3.4
3	☐	1.000		10428147.07		A	2.2
4	☐	1.000		8946901.26		A	10.4
5	☐	1.000		10590163.52		A	2.0
6	☐	1.000		10602325.68		A	1.5
7	☐	1.000		10425243.11		A	1.7
8	☐	1.000		9467772.22		A	1.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6623083.44		A	1.5
2	☐	1.000		6323216.09		A	4.9
3	☐	1.000		6578711.01		A	4.0
4	☐	1.000		6472625.46		A	2.8
5	☐	1.000		6657790.73		A	2.3
6	☐	1.000		6660122.82		A	3.0
7	☐	1.000		6589259.28		A	1.6
8	☐	1.000		6102720.74		A	4.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7239974.34		A	1.8
2	☐	1.000		7346067.11		A	2.6
3	☐	1.000		7071133.65		A	0.5
4	☐	1.000		5997213.59		A	9.2
5	☐	1.000		6996127.05		A	1.7
6	☐	1.000		6779918.23		A	0.1
7	☐	1.000		6469847.13		A	0.8
8	☐	1.000		5172891.90		A	1.5



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5169686.87		A	0.4
2	☐	1.000		4858963.68		A	5.8
3	☐	1.000		5000478.36		A	2.9
4	☐	1.000		4908669.68		A	3.3
5	☐	1.000		4890091.49		A	3.0
6	☐	1.000		4781043.57		A	3.1
7	☐	1.000		4560970.55		A	1.3
8	☐	1.000		3716523.69		A	3.5

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7121422-MS.b

Acq. Date-Time 2022-12-14 08:40:27

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		12533	125332.90			0.526	5.000
24		305898	3058982.83			0.551	5.000
25		42882	428822.90			0.444	5.000
26		48748	487480.47			0.308	5.000
59		82906	829060.22			0.716	5.000
113		9568	95675.24			0.364	5.000
115		119072	1190719.33			1.265	5.000
206		30408	304079.68			0.567	5.000
207		27584	275835.87			0.476	5.000
208		64908	649081.04			0.570	5.000
220		0	1.20			69.722	

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

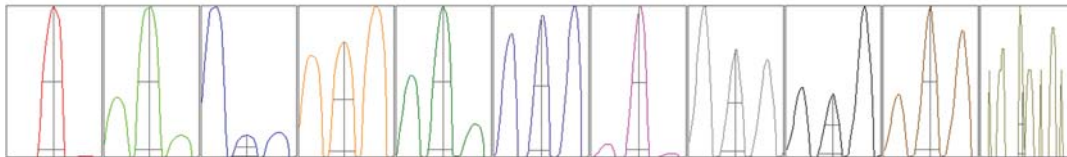
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	12558	12563	12609	12438	12499
24	307641	304940	307792	304218	304900
25	43065	42866	43081	42648	42751
26	48831	48824	48898	48534	48653
59	82779	82406	83777	82363	83205
113	9515	9569	9584	9560	9609
115	117302	117725	120791	119454	120088
206	30316	30159	30576	30443	30546
207	27574	27586	27783	27415	27560
208	64603	64687	65276	64629	65346

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	21229.50	9.00	8.90 - 9.10	
24	485571.20	23.95	23.90 - 24.10	
25	69060.39	24.95	24.90 - 25.10	
26	78219.49	25.95	25.90 - 26.10	
59	154548.41	59.00	58.90 - 59.10	
113	21437.63	113.05	112.90 - 113.10	
115	263316.36	115.05	114.90 - 115.10	
206	66177.27	206.00	205.90 - 206.10	
207	60494.34	207.00	206.90 - 207.10	
208	143553.20	208.00	207.90 - 208.10	
220	0.15	219.85	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.824	0.900	
24	0.66	0.831	0.900	
25	0.65	0.795	0.900	
26	0.66	0.822	0.900	
59	0.56	0.770	0.900	
113	0.45	0.682	0.900	
115	0.46	0.718	0.900	
206	0.46	0.765	0.900	
207	0.46	0.761	0.900	
208	0.46	0.772	0.900	
220	0.16	0.196		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 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	8.7 V	Deflect	14.8 V
Extract 2	-100.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 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	124	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.8 mm
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EM

Discriminator	3.1 mV	Analog HV	2240 V	Pulse HV	1473 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		25855	258549.20			1.882	
89		86570	865696.80			1.699	
205		28346	283463.09			1.776	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	26512	25425	25466	25648	26223
89	88909	85375	85263	86778	86524
205	28963	27710	27985	28426	28648

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 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	9.1 V	Deflect	2.4 V
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US EPA Tune Check Report

Extract 2	-100.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-60 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	124	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.4 mm	Torch V	0.8 mm
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EM

Discriminator	3.1 mV	Analog HV	2240 V	Pulse HV	1473 V
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