Appendix A
Methane Emissions from Gathering Compressor Stations in the U.S.:
Stack Testing Data Summary

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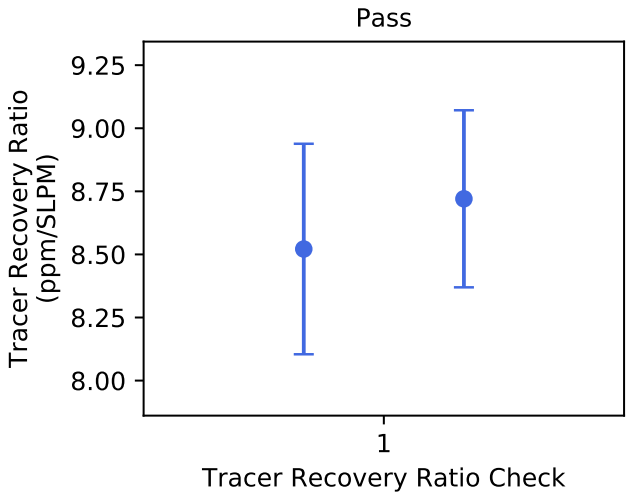
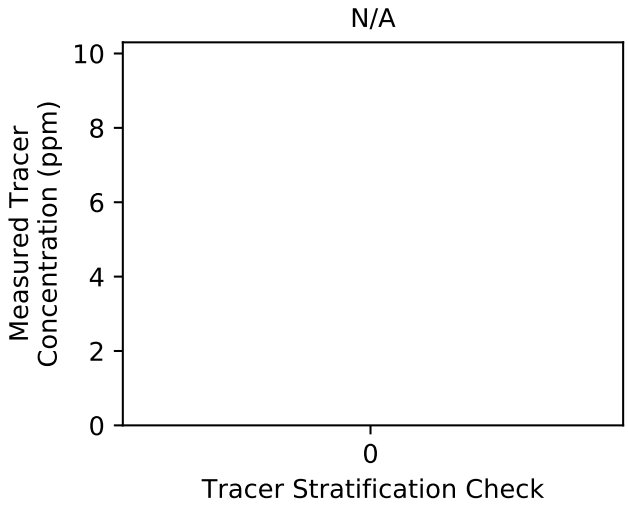
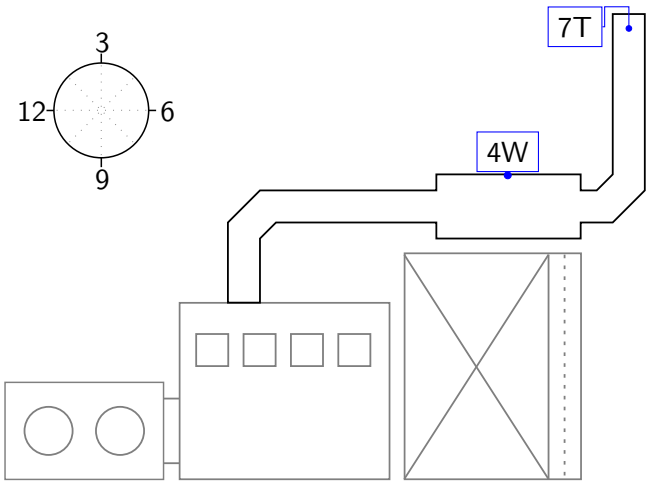
A1 Unit Level Result Summaries

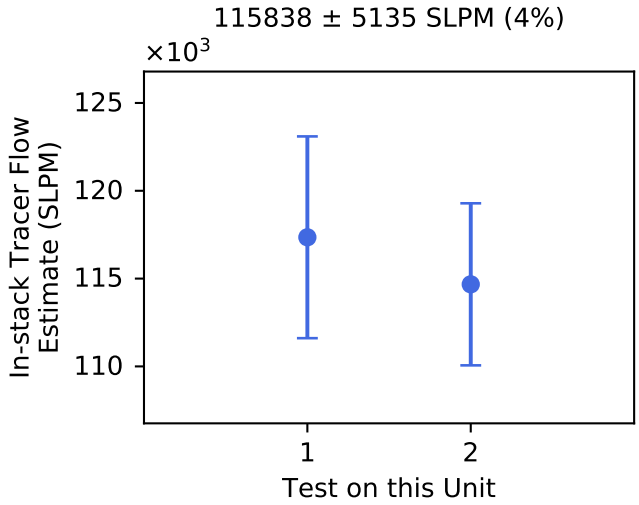
Facility	2686
Unit	1
Make	Caterpillar
Model	G3606 TA
Type	4SLB
Rating (hp)	1775
Load	-

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4W	None	Yes	7T	MultiTee	6clock	20	0.280±0.011	2.4±0.1	1625±49	117352±5744	7.5±0.4
2	4W	None	Yes	7T	MultiTee	6clock	20	0.420±0.011	3.7±0.1	1575±47	114674±4614	7.1±0.4



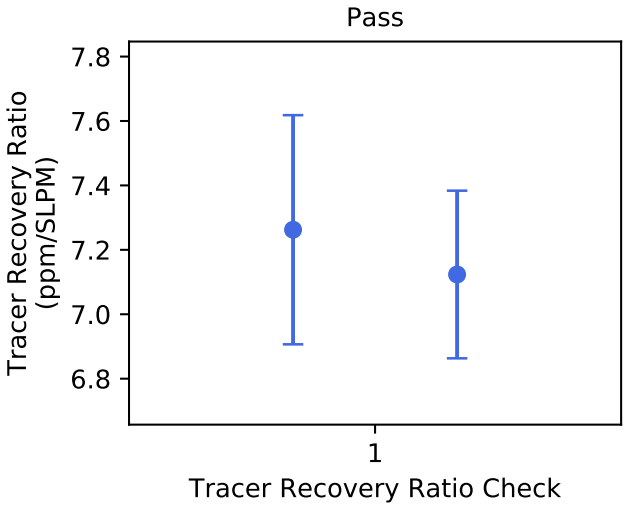


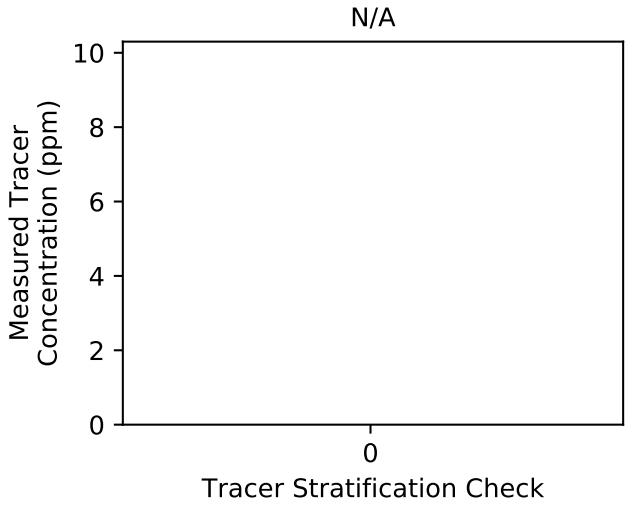


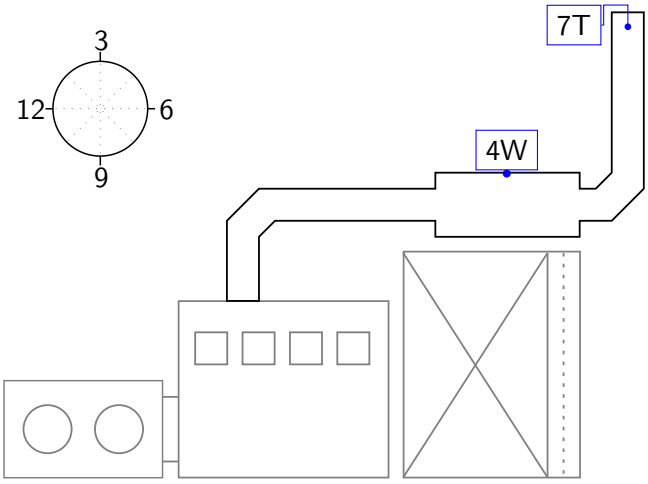


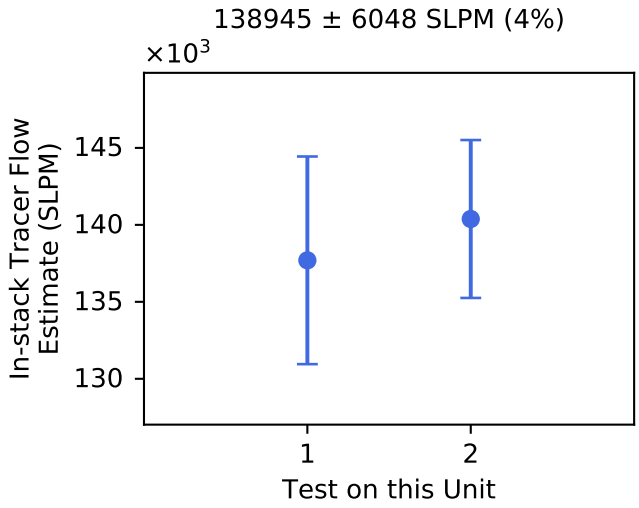
Facility 2686
Unit 2
Make Caterpillar
Model G3606 TA
Type 4SLB
Rating (hp) 1775
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4W	None	Yes	7T	MultiTee	6clock	20	0.280±0.011	2.0±0.1	1541±46	137696±6745	8.4±0.5
2	4W	None	Yes	7T	MultiTee	6clock	20	0.560±0.012	4.0±0.1	1509±45	140382±5129	8.4±0.4



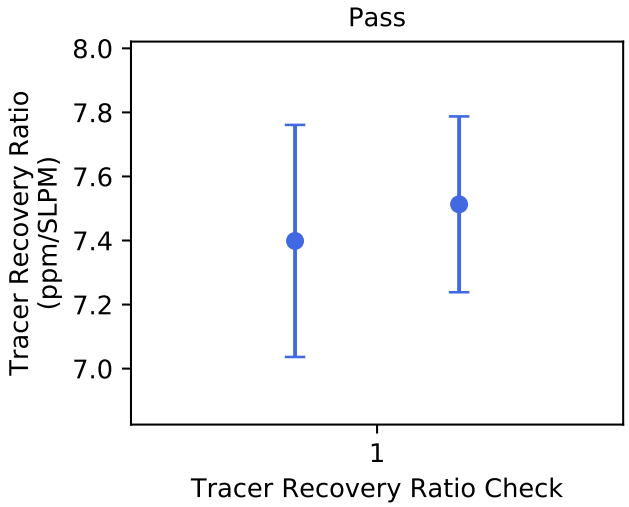


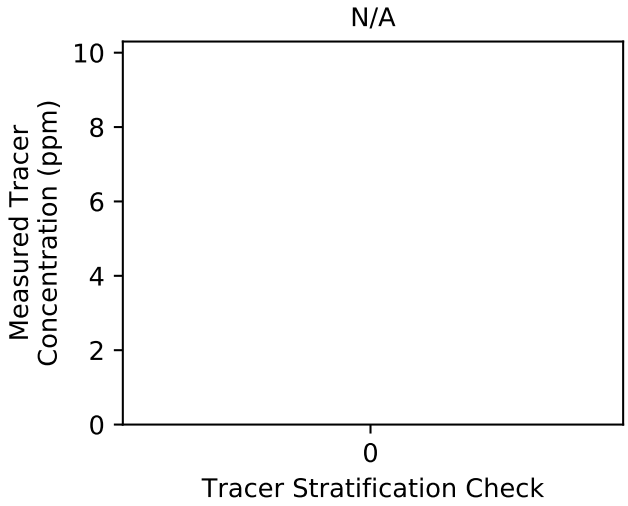


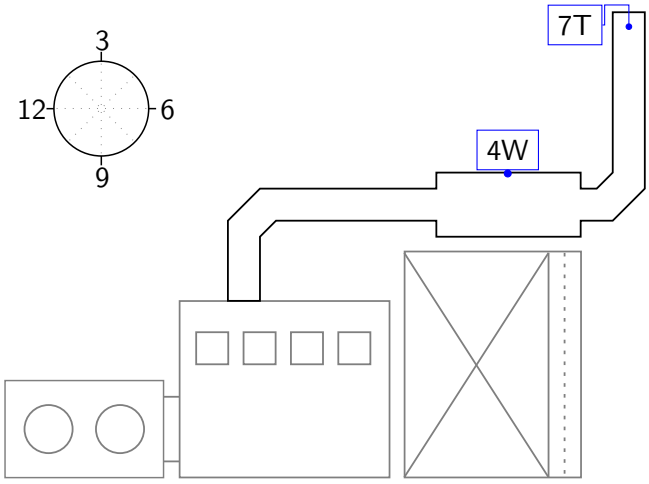


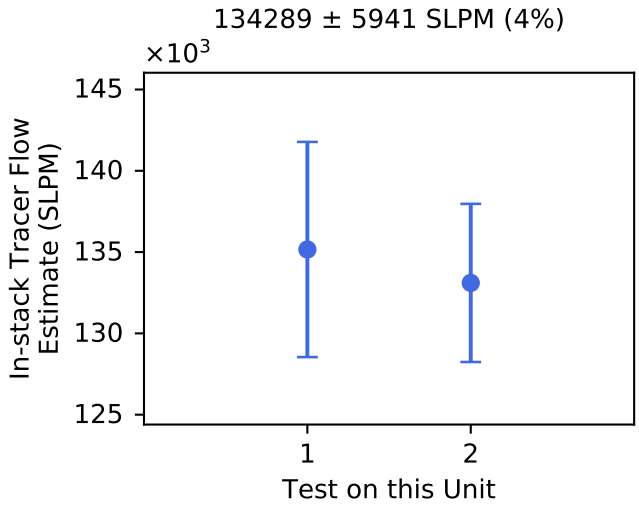
Facility 2686
Unit 3
Make Caterpillar
Model G3606 TA
Type 4SLB
Rating (hp) 1775
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4W	None	Yes	7T	MultiTee	6clock	20	0.280±0.011	2.1±0.1	1468±44	135159±6618	7.8±0.4
2	4W	None	Yes	7T	MultiTee	6clock	20	0.560±0.012	4.2±0.1	1495±45	133103±4863	7.8±0.4



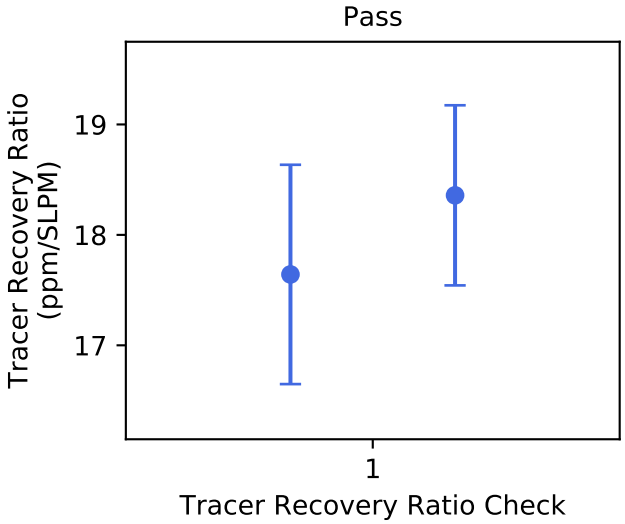


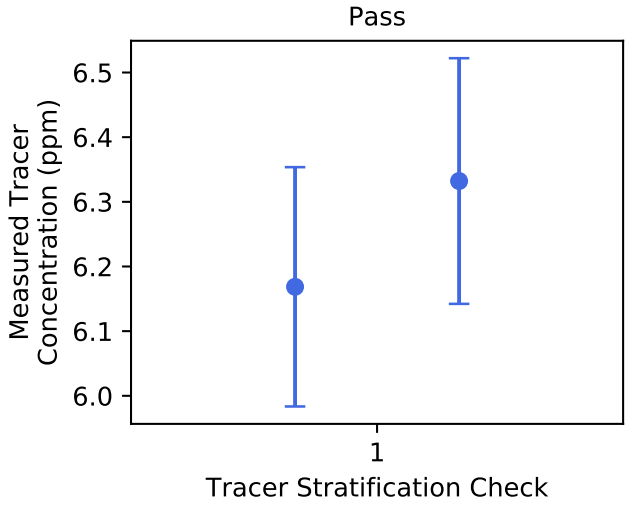


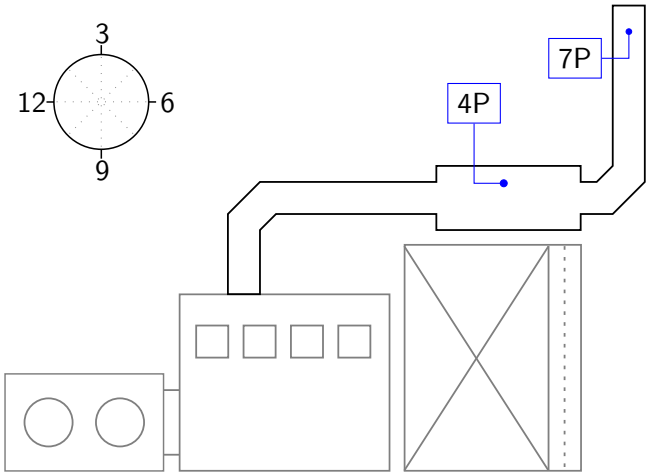


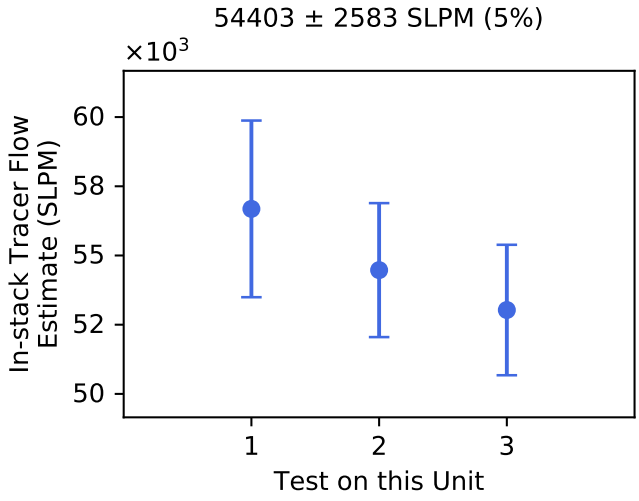
Facility	1418
Unit	1
Make	Waukesha
Model	L7044GSI
Type	4SRB
Rating (hp)	1680
Load	-

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4P	Single	No	7P	Multi	6clock	15	0.224±0.011	4.0±0.1	692±165	56683±3191	1.5±0.4
2	4P	Single	No	7P	Multi	6clock	15	0.336±0.011	6.2±0.2	588±156	54472±2420	1.3±0.3
3	4P	Single	No	7P	Multi	3clock	15	0.336±0.011	6.3±0.2	557±139	53030±2356	1.2±0.3



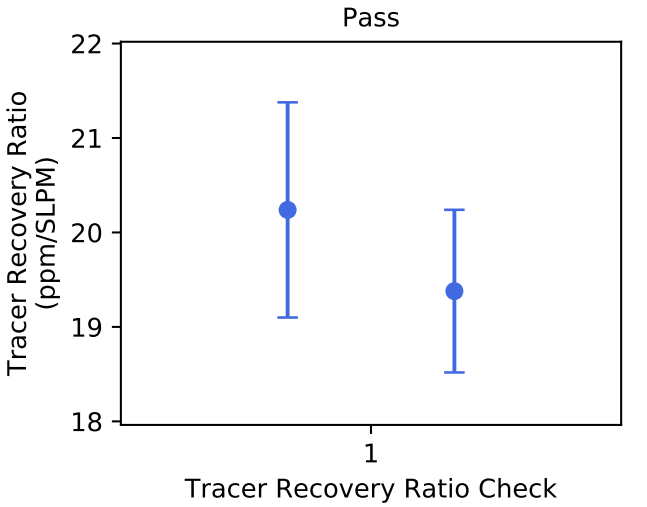


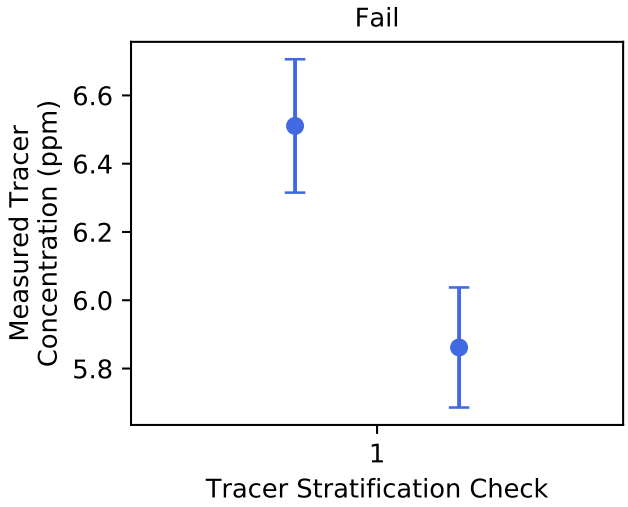


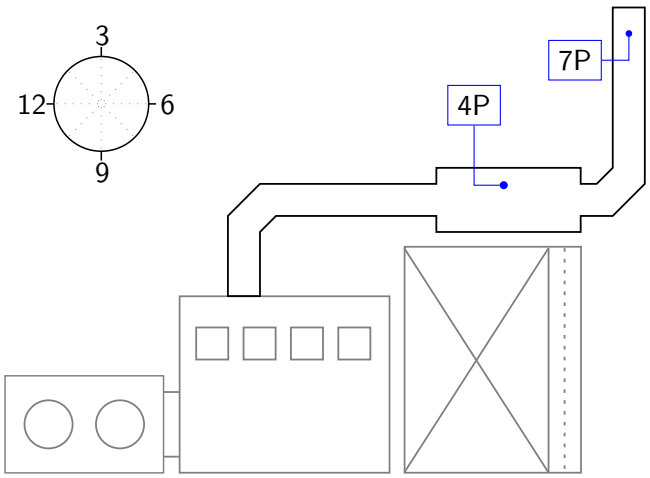


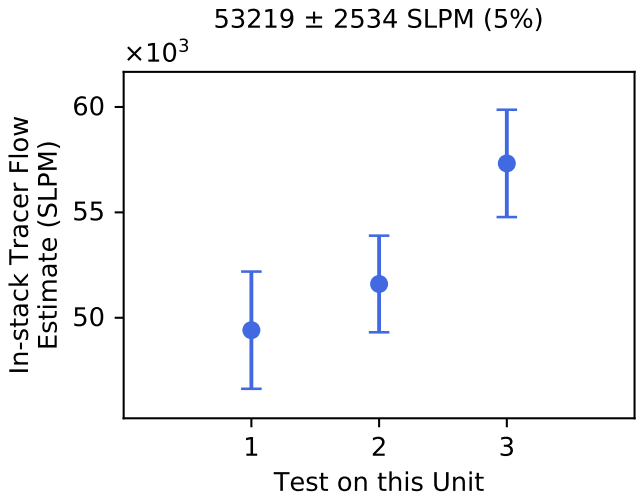
Facility	1418
Unit	2
Make	Waukesha
Model	L7044GSI
Type	4SRB
Rating (hp)	1680
Load	-

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4P	Single	No	7P	Multi	6clock	15	0.224±0.011	4.5±0.1	58±2	49411±2781	0.1±0.0
2	4P	Single	No	7P	Multi	6clock	15	0.336±0.011	6.5±0.2	55±4	51603±2292	0.1±0.0
3	4P	Single	No	7P	Multi	3clock	15	0.336±0.011	5.9±0.2	46±4	57323±2546	0.1±0.0



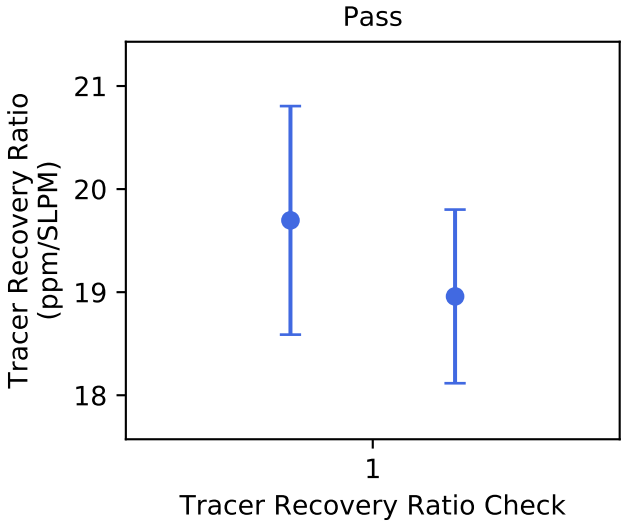


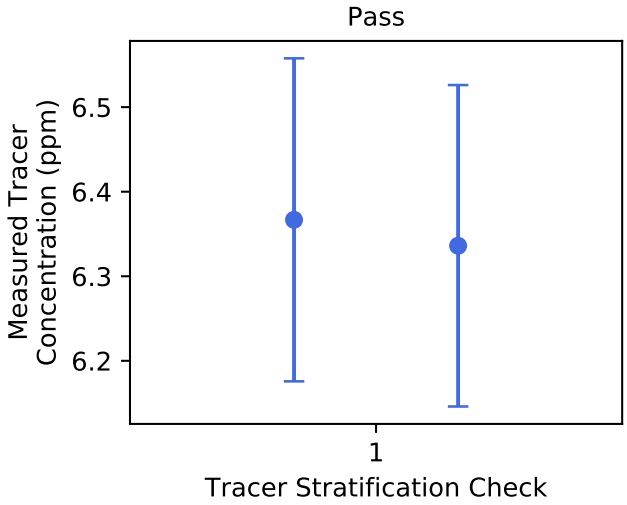


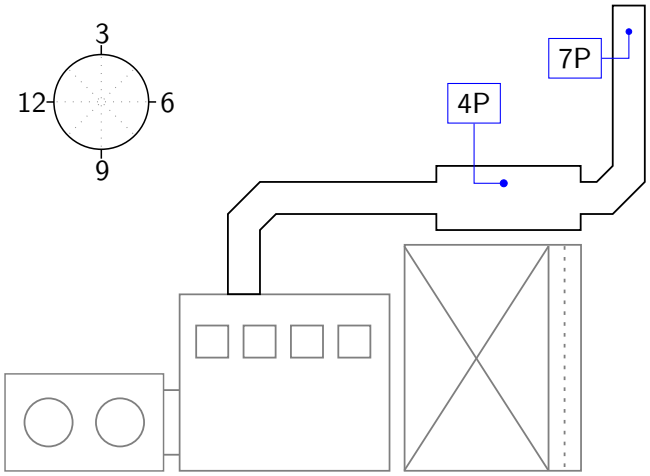


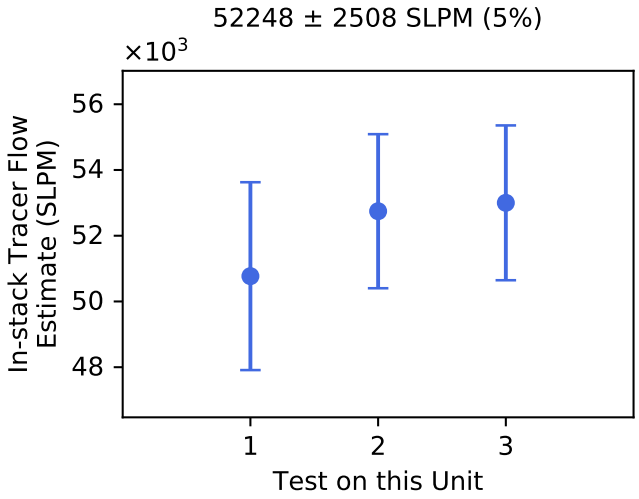
Facility 1418
Unit 3
Make Waukesha
Model L7044GSI
Type 4SRB
Rating (hp) 1680
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4P	Single	No	7P	Multi	6clock	15	0.224±0.011	4.4±0.1	80±8	50770±2858	0.2±0.0
2	4P	Single	No	7P	Multi	6clock	15	0.336±0.011	6.4±0.2	82±8	52746±2344	0.2±0.0
3	4P	Single	No	7P	Multi	3clock	15	0.336±0.011	6.3±0.2	76±9	53001±2355	0.2±0.0



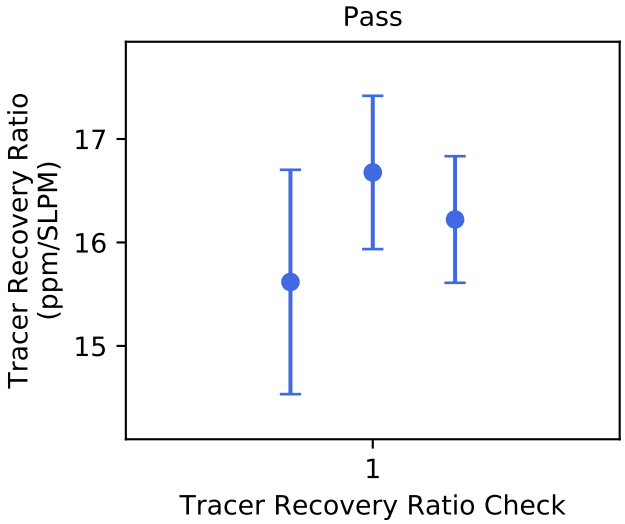


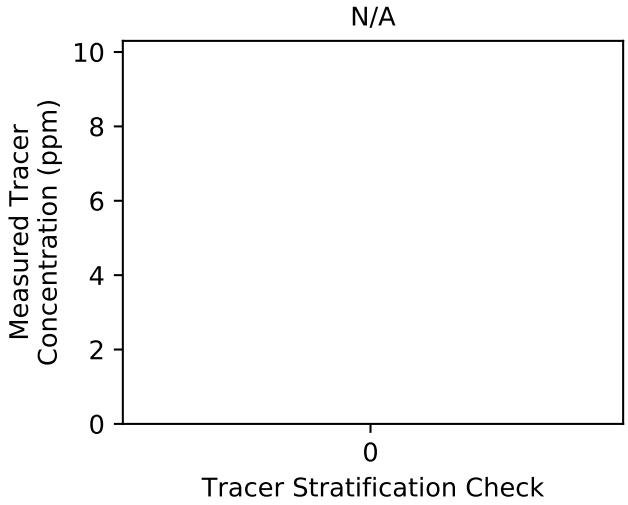


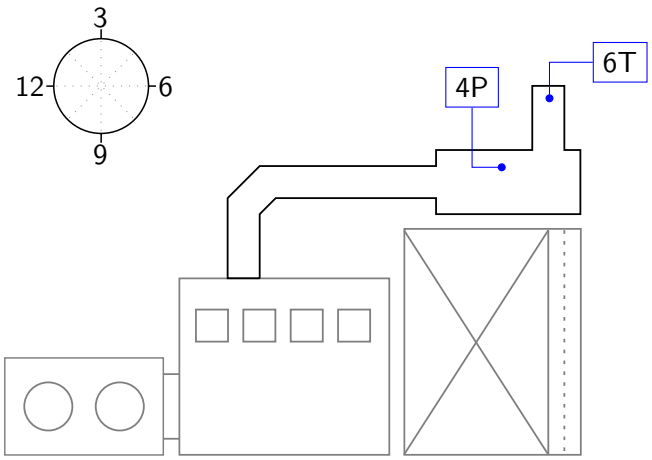


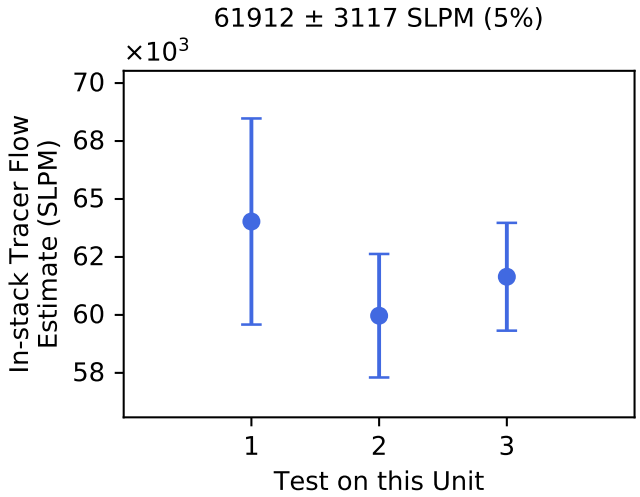
Facility	791
Unit	1
Make	Caterpillar
Model	G3516 LE
Type	4SLB
Rating (hp)	1340
Load	-

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4P	Multi	No	6T	Single	9clock	10	0.168±0.011	2.6±0.1	780±27	64029±4445	2.0±0.2
2	4P	Multi	No	6T	Single	9clock	10	0.336±0.011	5.6±0.2	804±24	59965±2664	1.9±0.1
3	4P	Multi	No	6T	Single	9clock	10	0.504±0.012	8.2±0.2	801±24	61645±2325	1.9±0.1



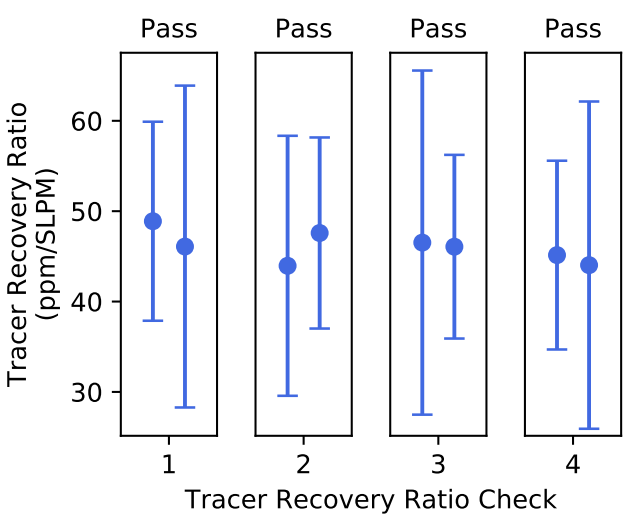


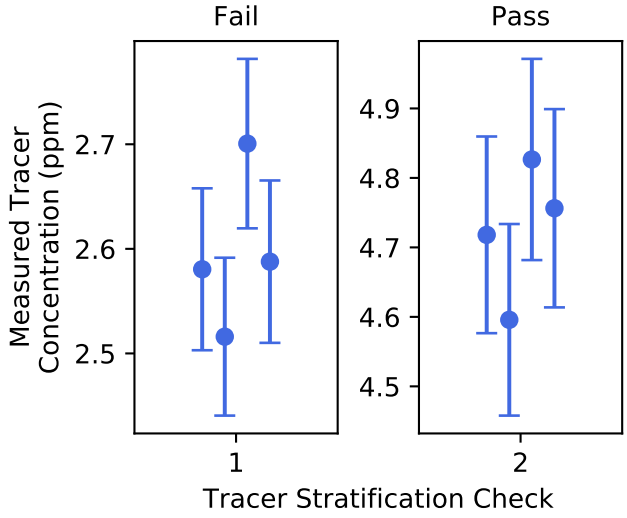


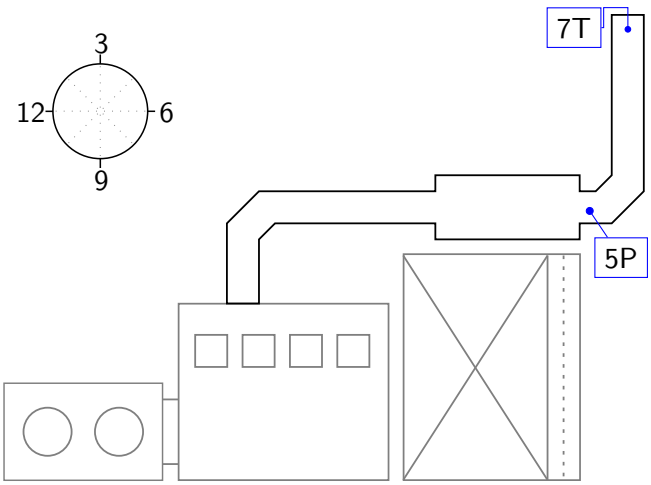


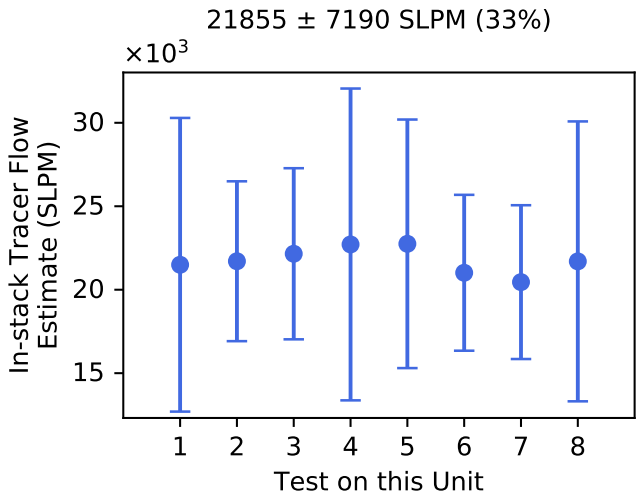
Facility 2228
Unit 1
Make Waukesha
Model L7042G
Type 4SRB
Rating (hp) 580
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	5P	Multi	No	7T	Single	6clock	6	0.055±0.023	2.6±0.1	632±19	21495±8796	0.5±0.2
2	5P	Multi	No	7T	Single	6clock	6	0.102±0.022	4.7±0.1	622±19	21706±4788	0.5±0.1
3	5P	Multi	No	7T	Single	9clock	6	0.102±0.023	4.6±0.1	617±19	22153±5125	0.5±0.1
4	5P	Multi	No	7T	Single	9clock	6	0.057±0.023	2.5±0.1	595±18	22712±9340	0.5±0.2
5	5P	Multi	No	7T	Single	3clock	6	0.061±0.020	2.7±0.1	604±18	22750±7445	0.5±0.2
6	5P	Multi	No	7T	Single	3clock	6	0.101±0.022	4.8±0.1	600±18	21015±4669	0.5±0.1
7	5P	Multi	No	7T	Single	12clock	6	0.097±0.022	4.8±0.1	606±18	20455±4607	0.5±0.1
8	5P	Multi	No	7T	Single	12clock	6	0.056±0.022	2.6±0.1	594±18	21698±8384	0.5±0.2



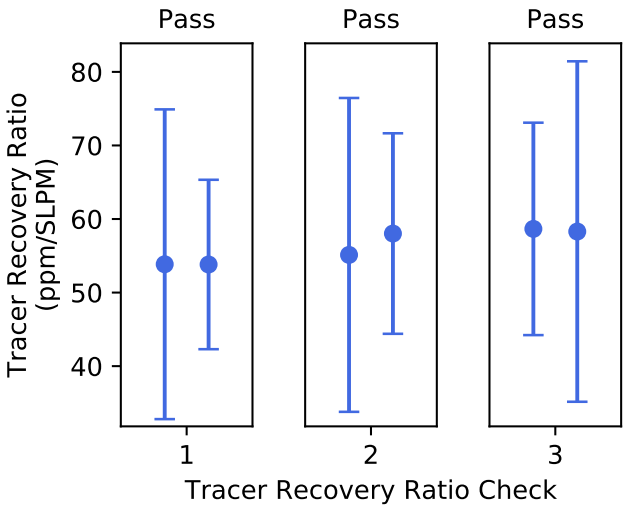


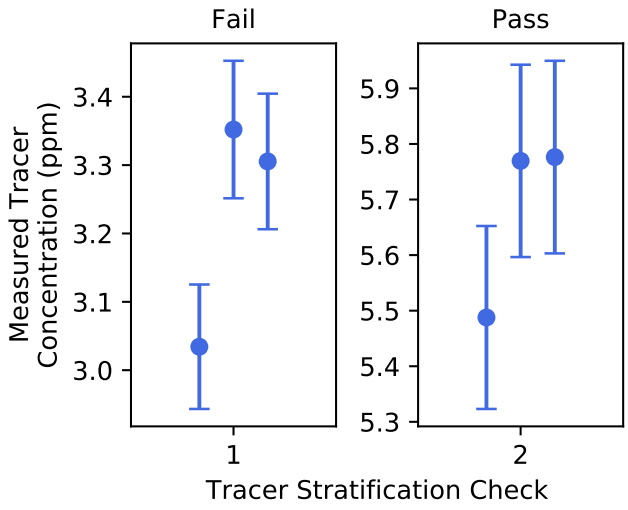


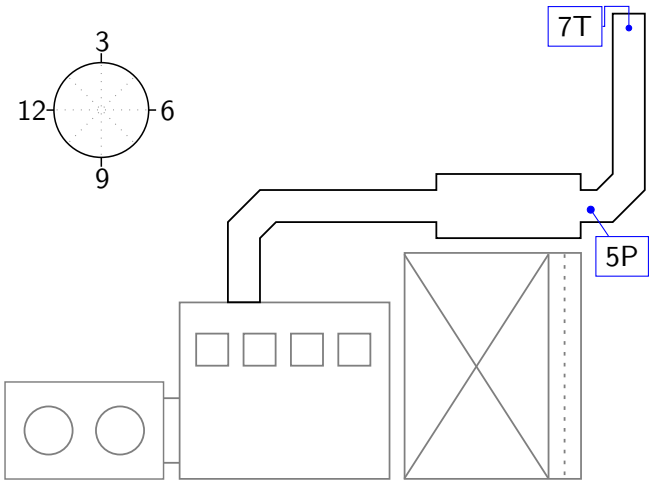


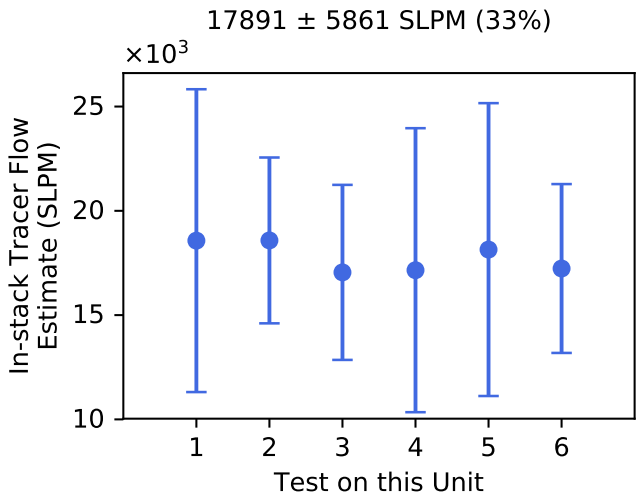
Facility 1011
Unit 1
Make Waukesha
Model L7042G
Type 4SRB
Rating (hp) 686
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	5P	Multi	No	7T	Single	1030clock	6	0.056±0.022	3.0±0.1	2994±97	18570±7260	2.2±0.9
2	5P	Multi	No	7T	Single	1030clock	6	0.102±0.022	5.5±0.2	3058±121	18581±3976	2.2±0.5
3	5P	Multi	No	7T	Single	730clock	6	0.098±0.024	5.8±0.2	3105±93	17048±4196	2.1±0.5
4	5P	Multi	No	7T	Single	730clock	6	0.057±0.023	3.4±0.1	3042±109	17153±6809	2.1±0.8
5	5P	Multi	No	7T	Single	3clock	6	0.060±0.023	3.3±0.1	3064±110	18142±7021	2.2±0.9
6	5P	Multi	No	7T	Single	3clock	6	0.100±0.023	5.8±0.2	3034±118	17234±4048	2.1±0.5



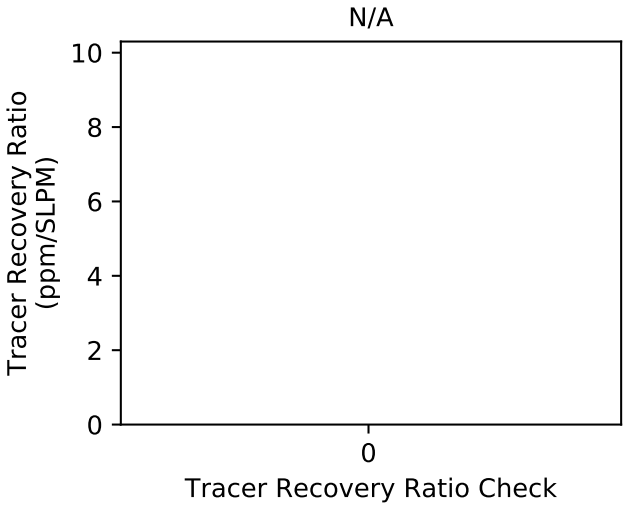


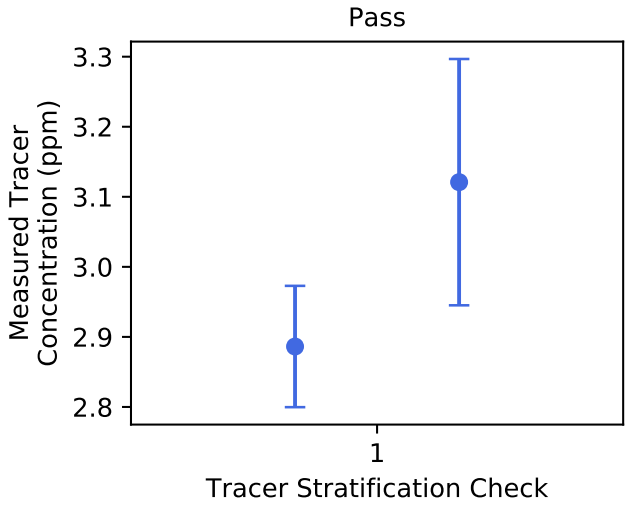


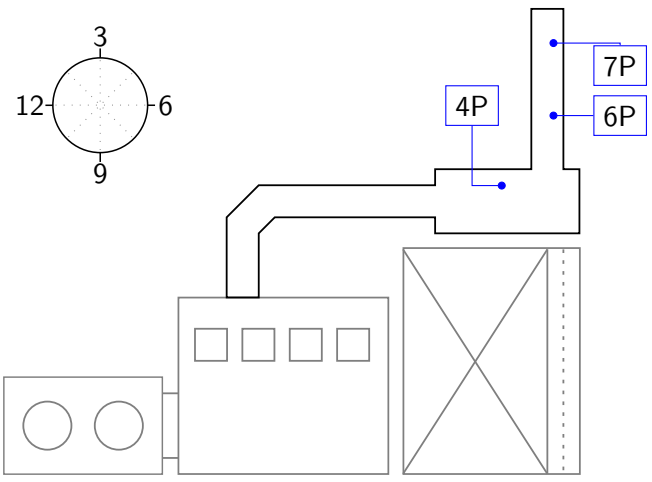


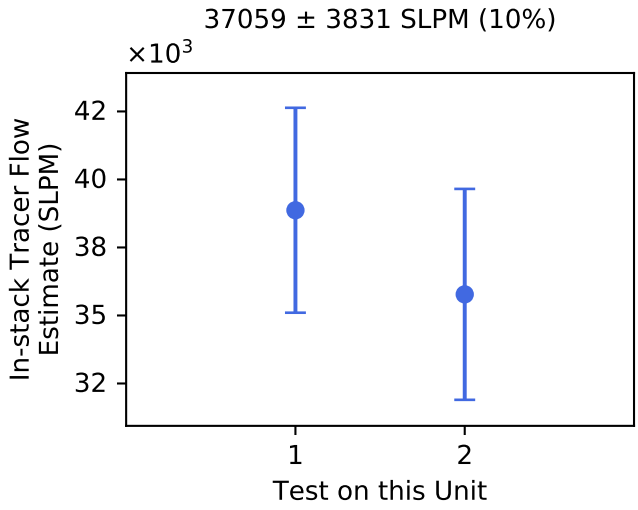
Facility	1488
Unit	1
Make	Waukesha
Model	L5794GSI
Type	4SRB
Rating (hp)	1380
Load	-

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4P	Single	No	7P	Multi	730clock	12	0.112±0.010	2.9±0.1	20±4	38868±3766	0.0±0.0
2	4P	Single	No	6P	Multi	730clock	8	0.112±0.010	3.1±0.2	24±5	35776±3877	0.0±0.0



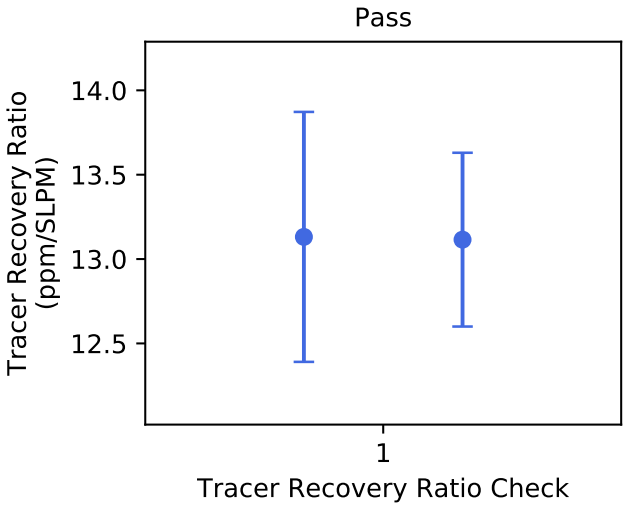


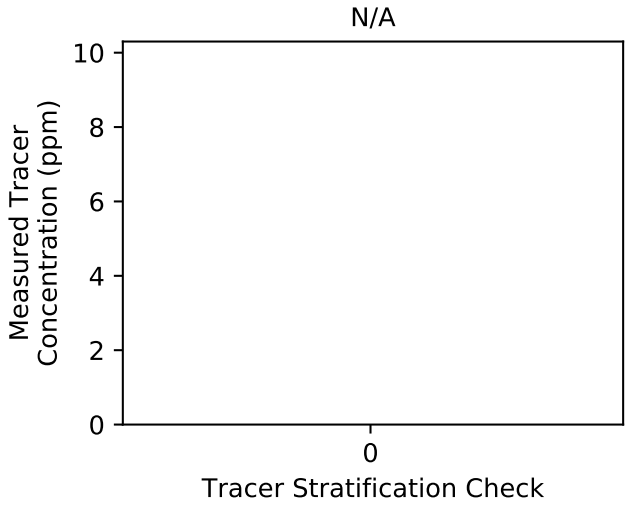


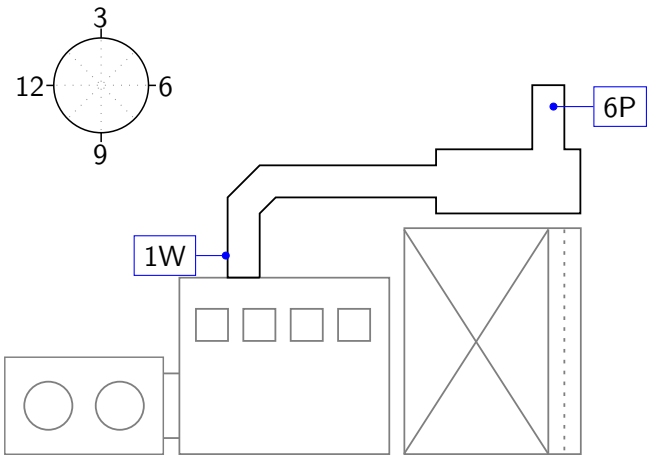


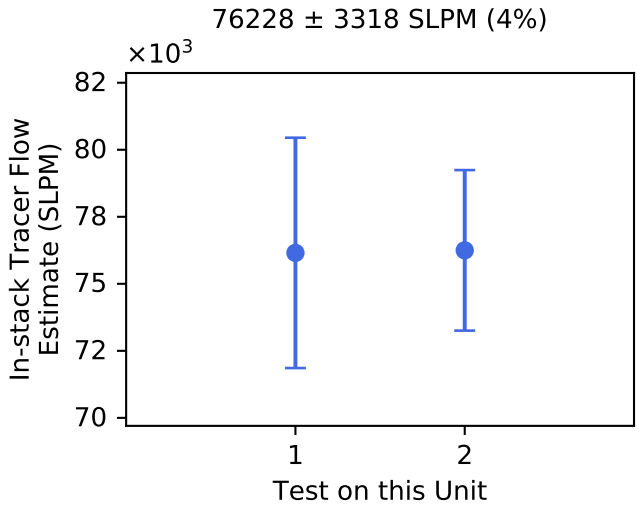
Facility 1895
Unit 1
Make Caterpillar
Model G3516 B
Type 4SLB
Rating (hp) 1380
Load 0.74

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	1W	None	No	6P	Multi	730clock	25	0.223±0.011	2.9±0.1	659±20	76154±4296	2.0±0.1
2	1W	None	No	6P	Multi	730clock	25	0.448±0.011	5.9±0.2	664±20	76248±2994	2.0±0.1



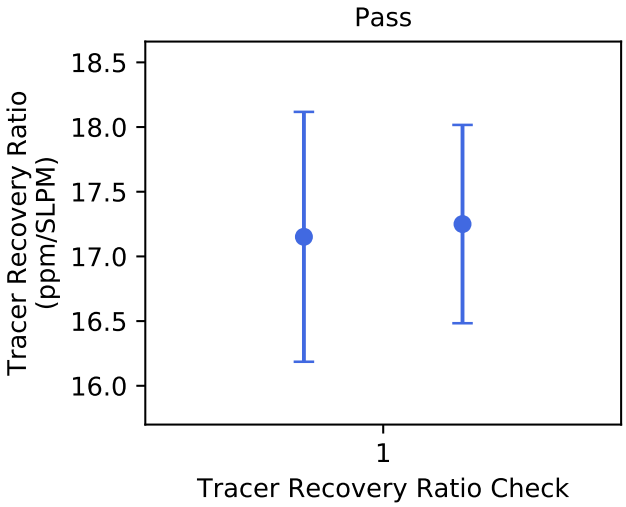


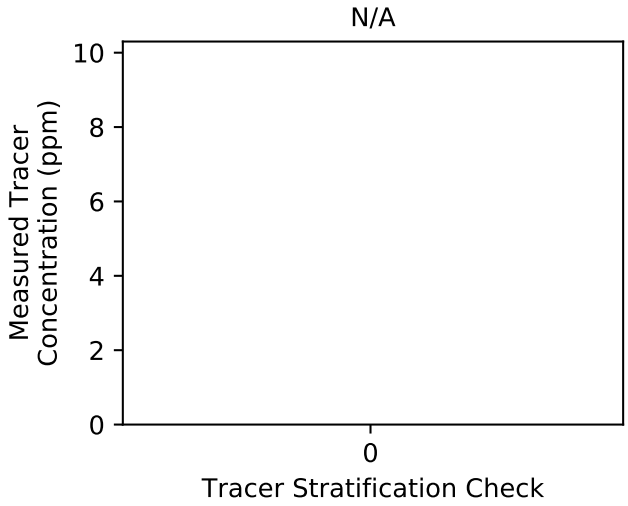


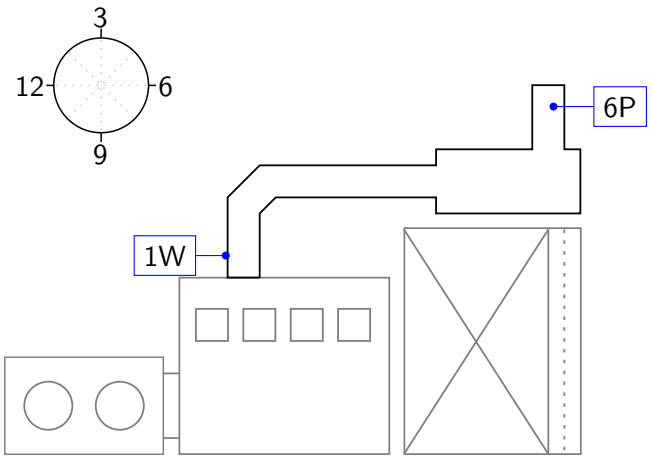


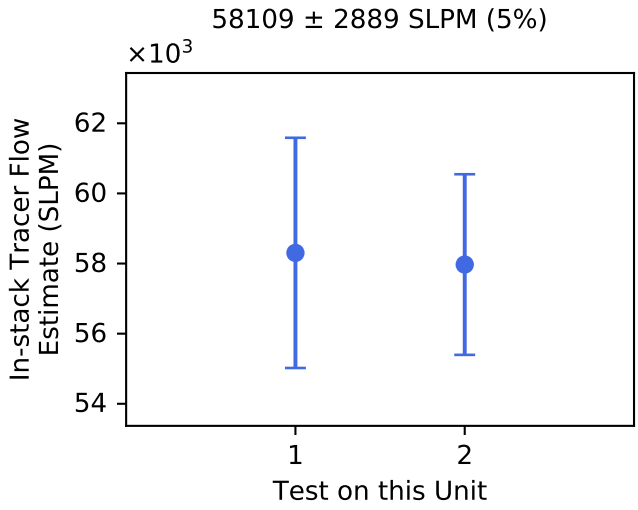
Facility 1895
Unit 2
Make Caterpillar
Model G3516 B
Type 4SLB
Rating (hp) 1380
Load 0.74

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	1W	None	No	6P	Multi	730clock	25	0.224±0.011	3.8±0.1	701±21	58304±3283	1.6±0.1
2	1W	None	No	6P	Multi	730clock	25	0.336±0.011	5.8±0.2	697±21	57971±2576	1.6±0.1



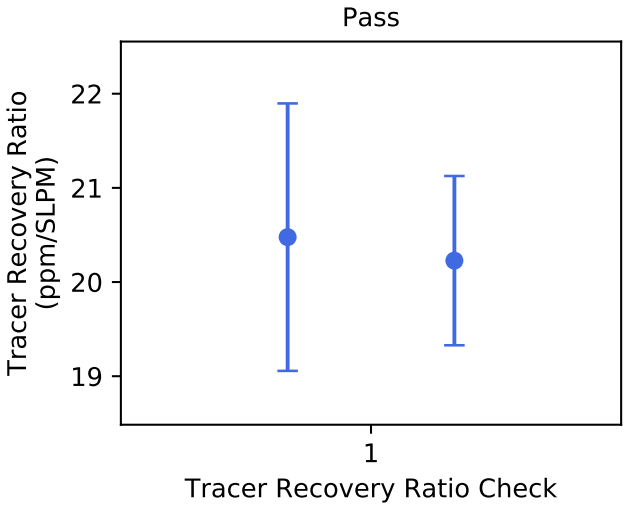


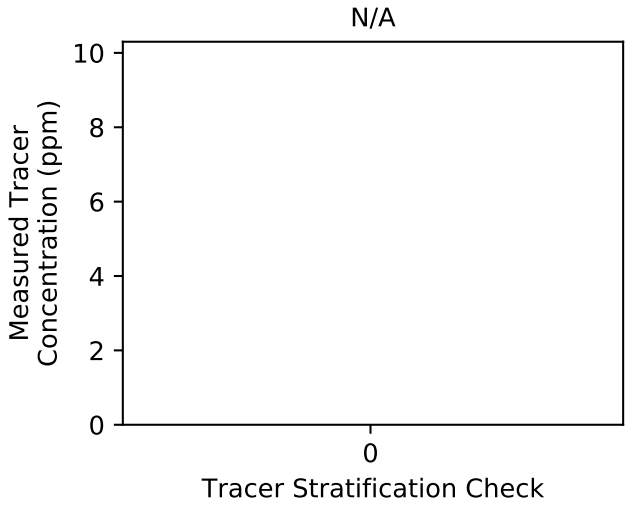


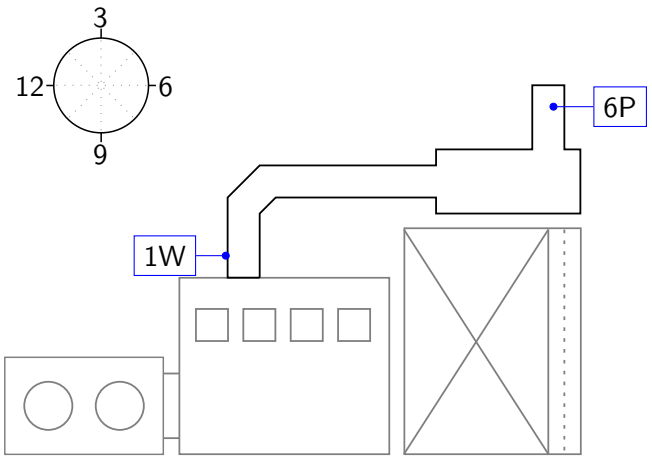


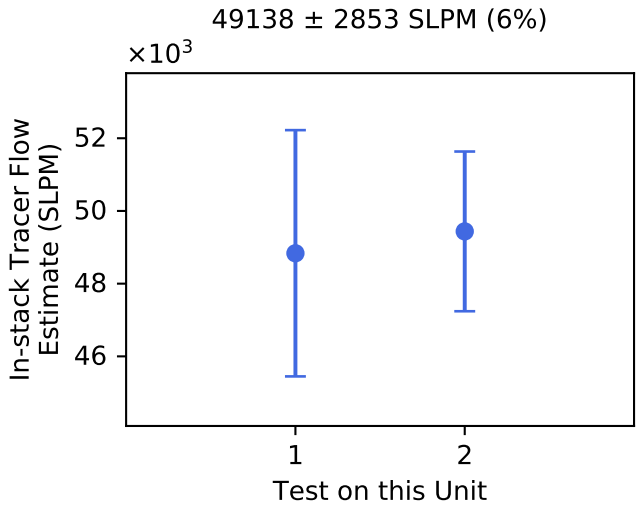
Facility 1895
Unit 3
Make Caterpillar
Model G3516 B
Type 4SLB
Rating (hp) 1380
Load 0.61

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	1W	None	No	6P	Multi	730clock	25	0.168±0.011	3.4±0.1	609±18	48836±3387	1.2±0.1
2	1W	None	No	6P	Multi	730clock	25	0.336±0.011	6.8±0.2	609±18	49438±2197	1.2±0.1



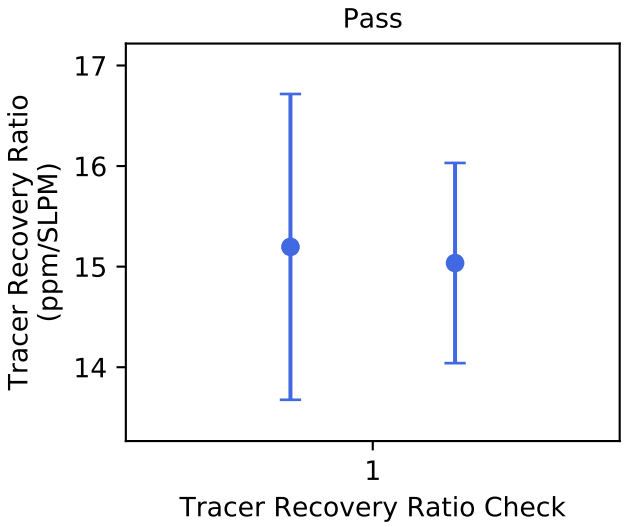


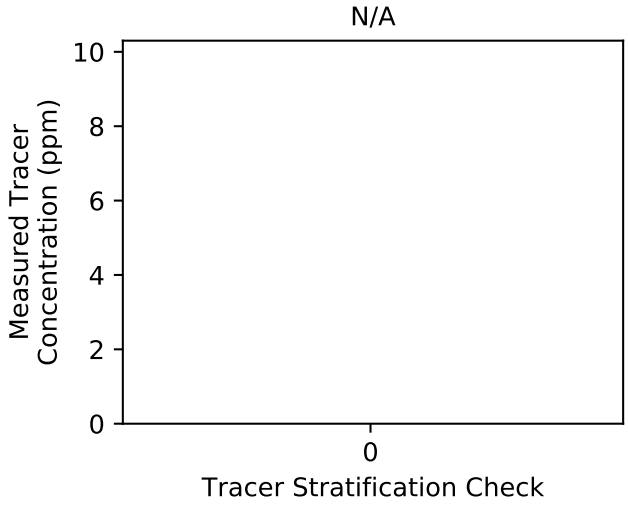


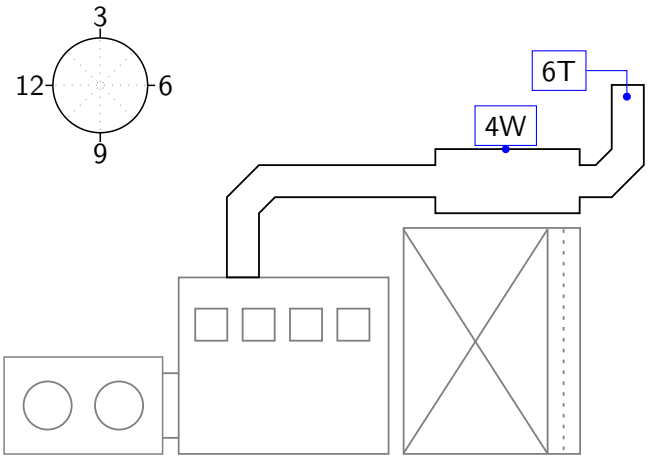


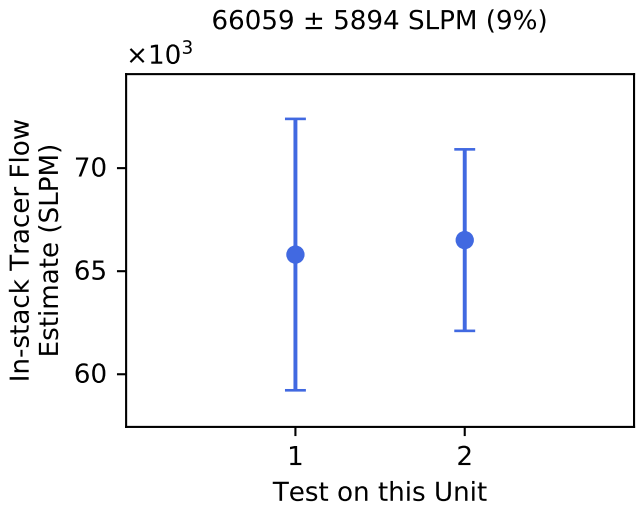
Facility	705
Unit	1
Make	Caterpillar
Model	G3608
Type	4SLB
Rating (hp)	2445
Load	0.51

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4W	None	No	6T	Multi	1030clock	12	0.225±0.013	3.4±0.3	2171±65	65806±6584	5.6±0.6
2	4W	None	No	6T	Multi	1030clock	12	0.392±0.012	5.9±0.3	2157±65	66508±4403	5.7±0.4



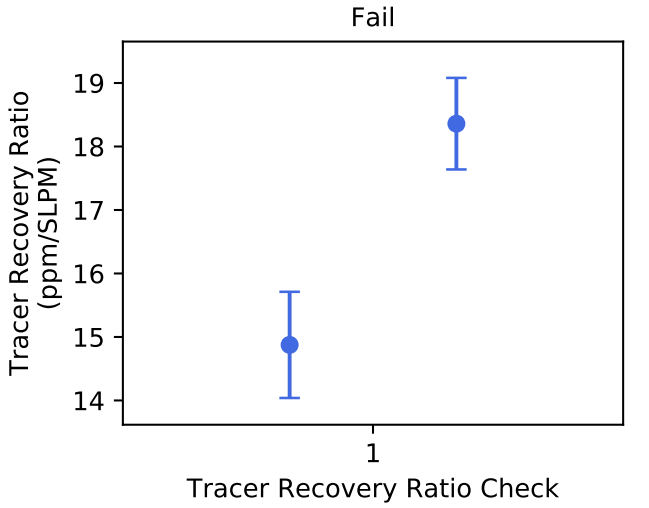


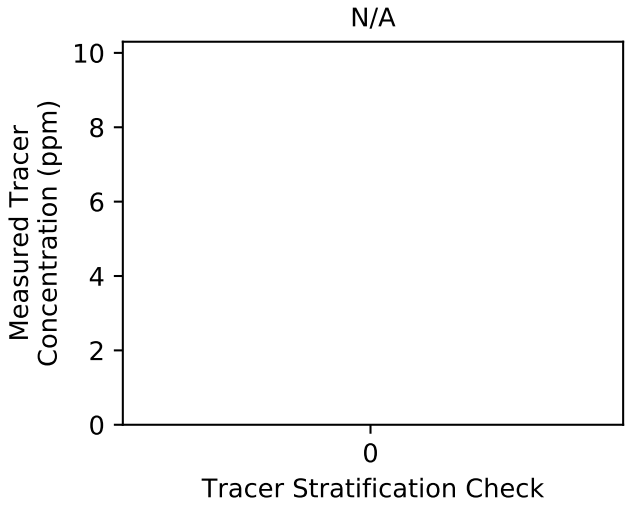


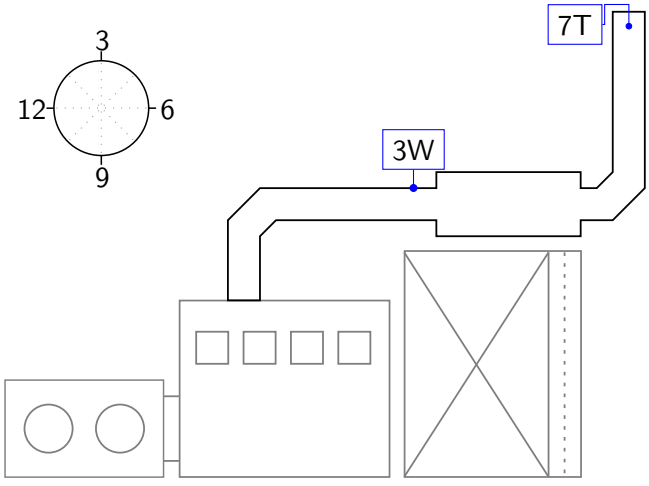


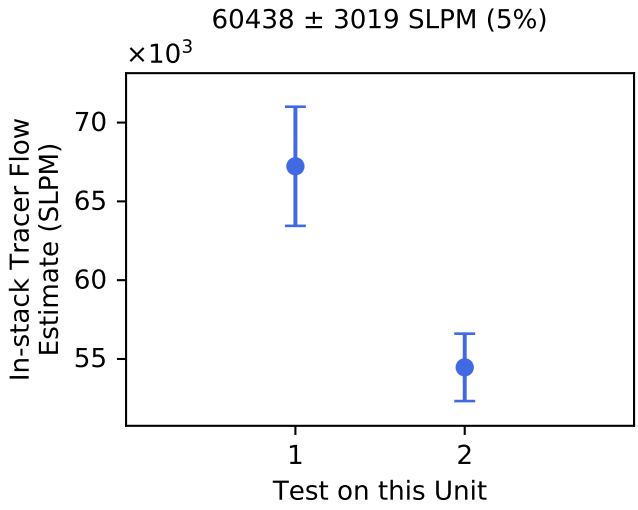
Facility	705
Unit	3
Make	Caterpillar
Model	G3516
Type	4SLB
Rating (hp)	1340
Load	0.67

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	No	7T	Multi	6clock	12	0.224±0.011	3.3±0.1	1444±43	67226±3780	3.8±0.2
2	3W	None	No	7T	Multi	6clock	12	0.447±0.011	8.2±0.2	1441±43	54468±2139	3.1±0.2



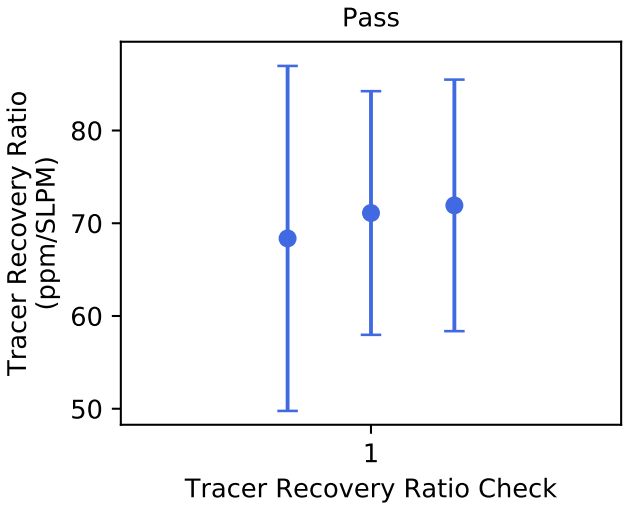


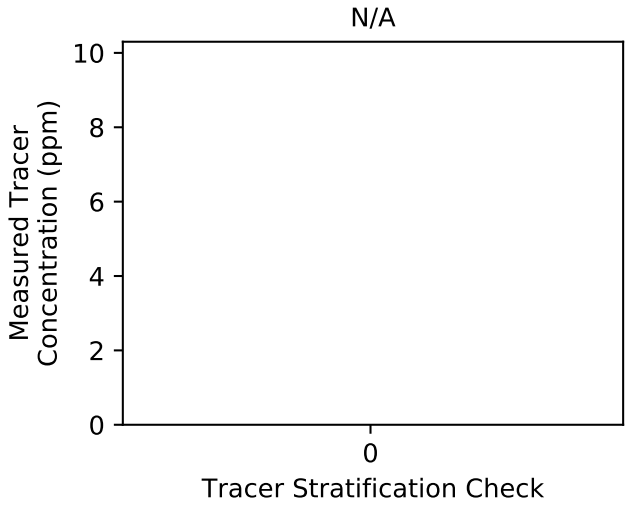


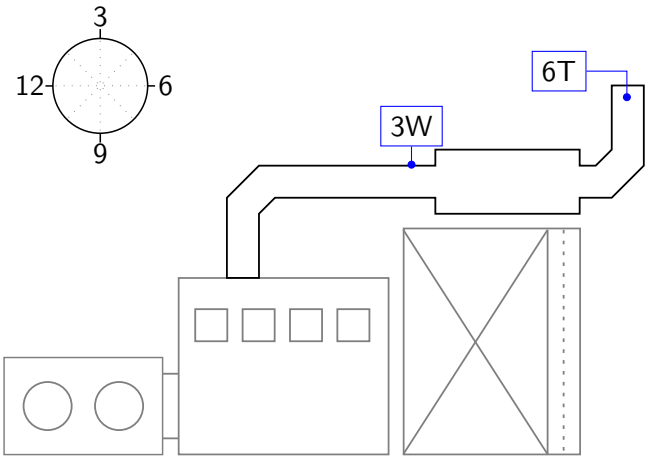


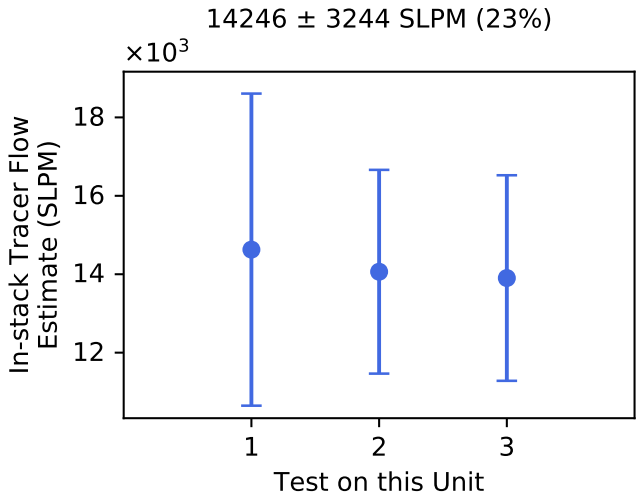
Facility 2316
Unit 1
Make Cummins
Model KTA-19GC
Type 4SRB
Rating (hp) 380
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	Yes	6T	MultiTee	6clock	10	0.045±0.010	3.1±0.5	227±84	14628±3980	0.1±0.1
2	3W	None	Yes	6T	MultiTee	6clock	10	0.067±0.010	4.8±0.5	136±10	14064±2598	0.1±0.0
3	3W	None	Yes	6T	MultiTee	6clock	10	0.112±0.010	8.0±1.3	133±7	13903±2621	0.1±0.0



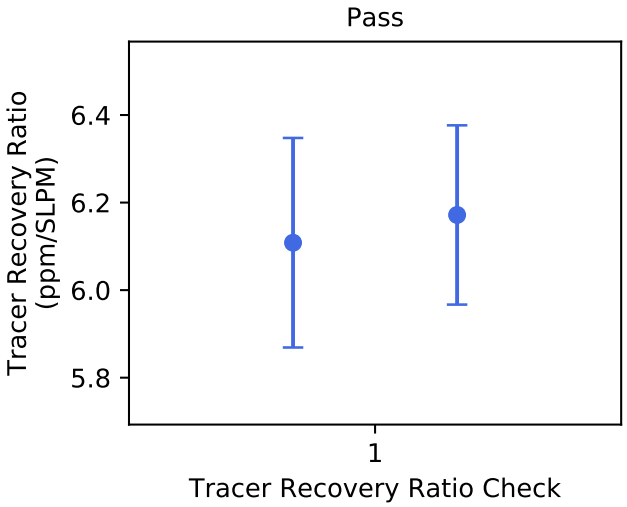


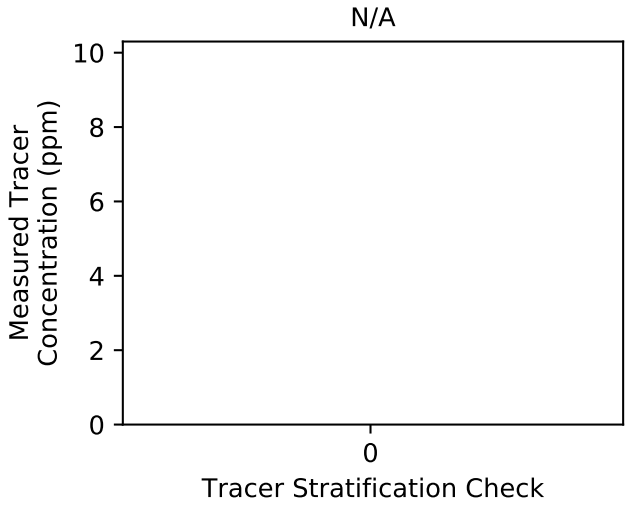


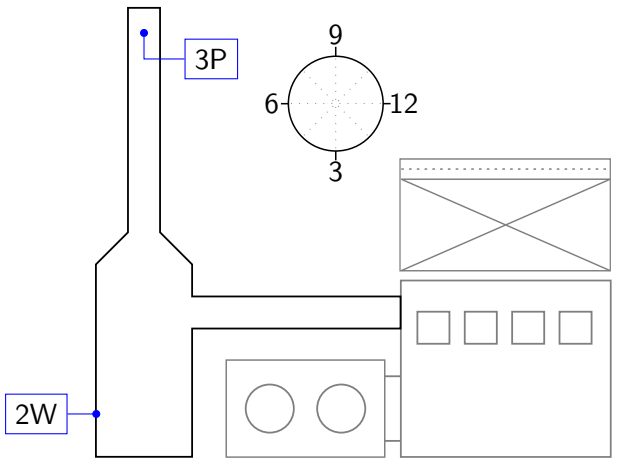


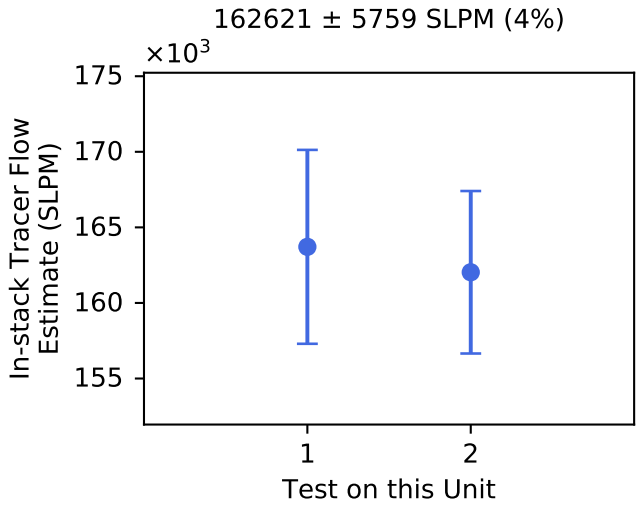
Facility	441
Unit	1
Make	Caterpillar
Model	G3608
Type	4SLB
Rating (hp)	2445
Load	0.94

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2W	None	No	3P	Multi	6clock	30	0.450±0.011	2.8±0.1	1030±31	163712±6415	6.6±0.3
2	2W	None	No	3P	Multi	6clock	30	0.896±0.013	5.5±0.2	1023±31	162030±5375	6.5±0.3



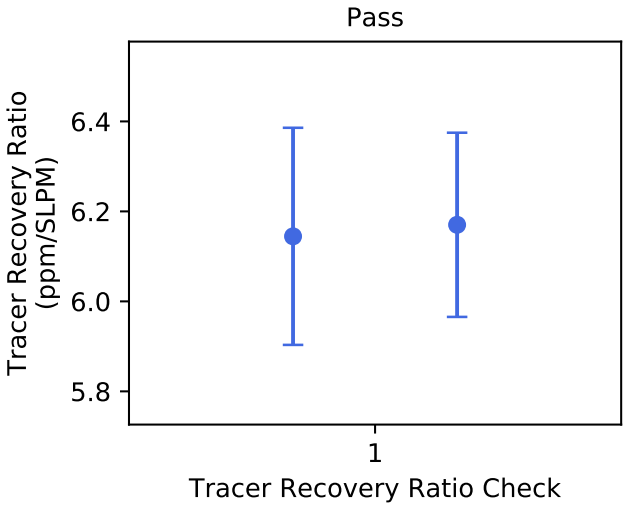


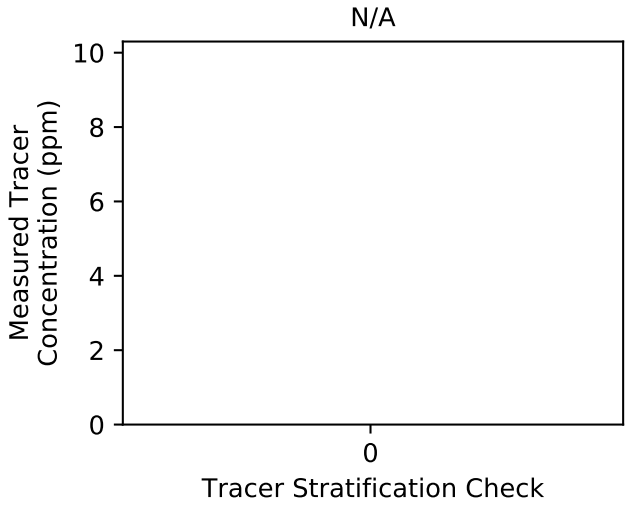


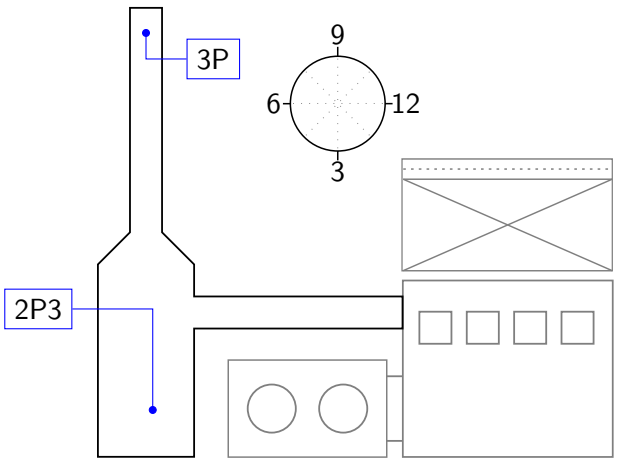


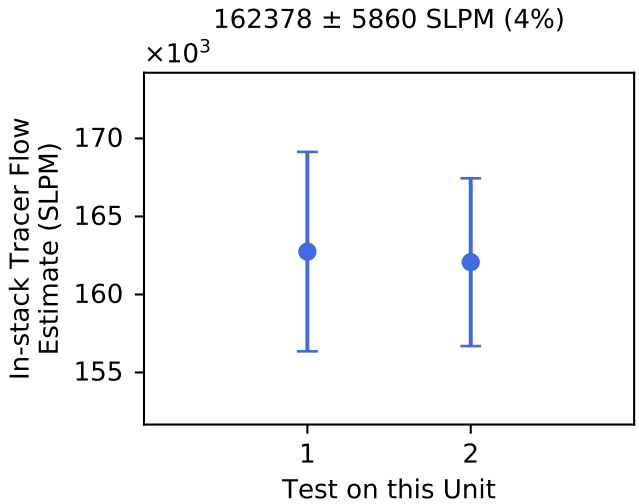
Facility	441
Unit	2
Make	Caterpillar
Model	G3608
Type	4SLB
Rating (hp)	2445
Load	0.91

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P3	Single	No	3P	Multi	6clock	30	0.448±0.011	2.8±0.1	1048±31	162746±6391	6.7±0.3
2	2P3	Single	No	3P	Multi	6clock	30	0.895±0.013	5.5±0.2	1053±32	162070±5377	6.7±0.3



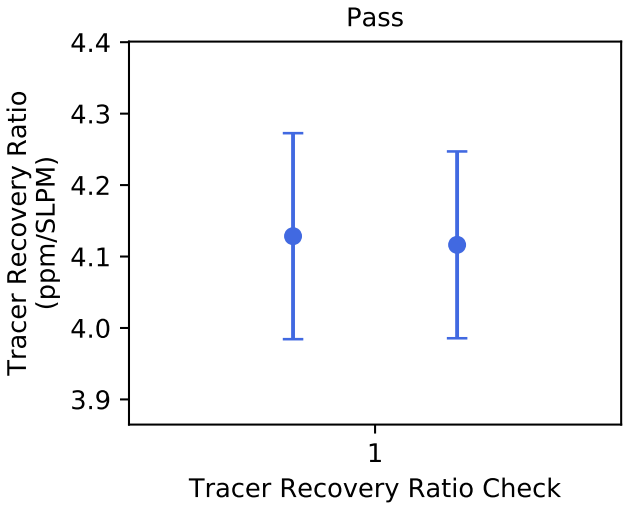


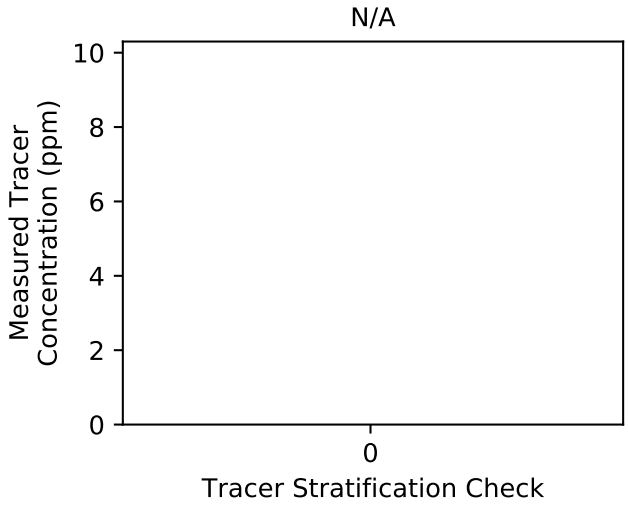


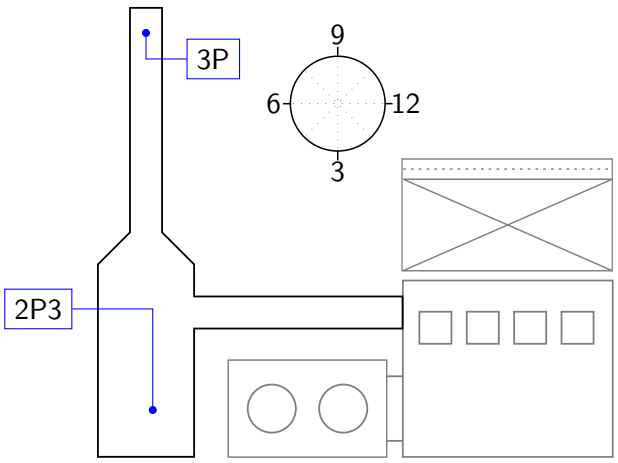


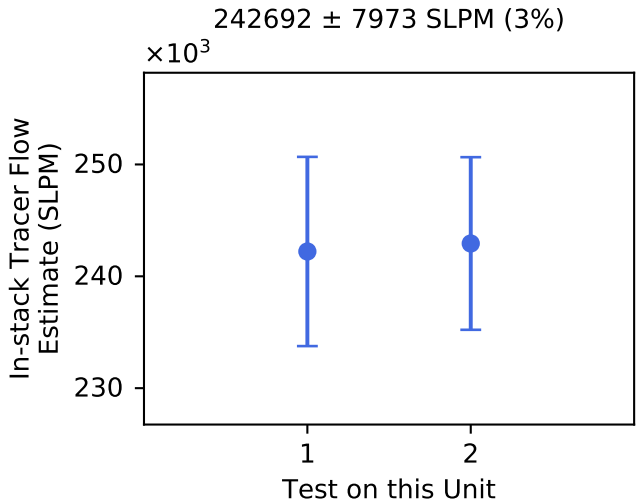
Facility	441
Unit	3
Make	Caterpillar
Model	G3612
Type	4SLB
Rating (hp)	3665
Load	0.96

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P3	Single	No	3P	Multi	6clock	30	0.672±0.012	2.8±0.1	970±29	242219±8459	9.3±0.4
2	2P3	Single	No	3P	Multi	6clock	30	1.345±0.014	5.5±0.2	972±29	242934±7716	9.3±0.4



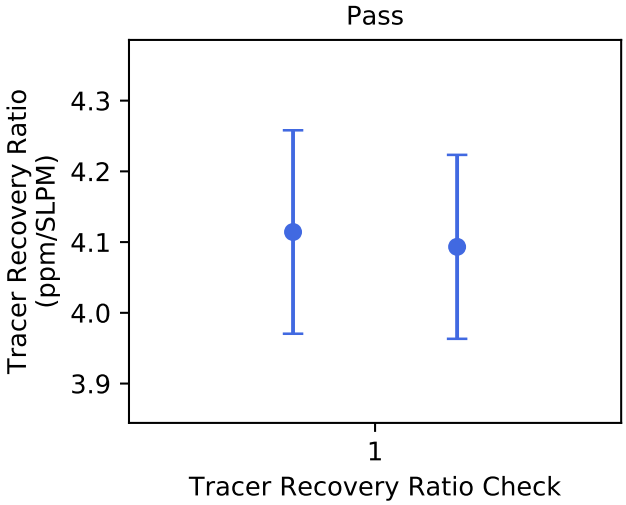


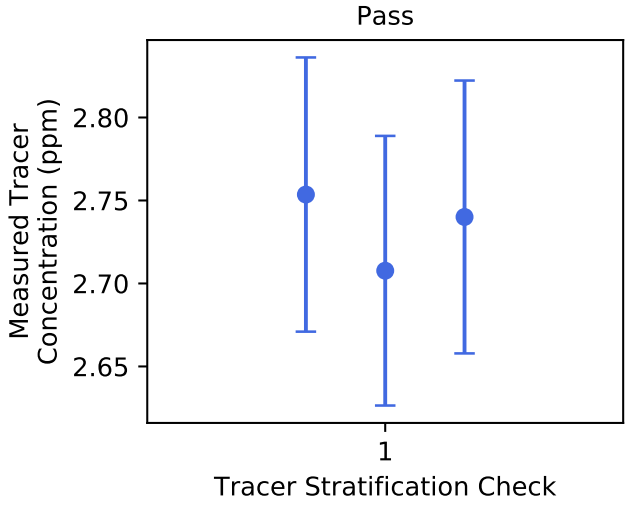


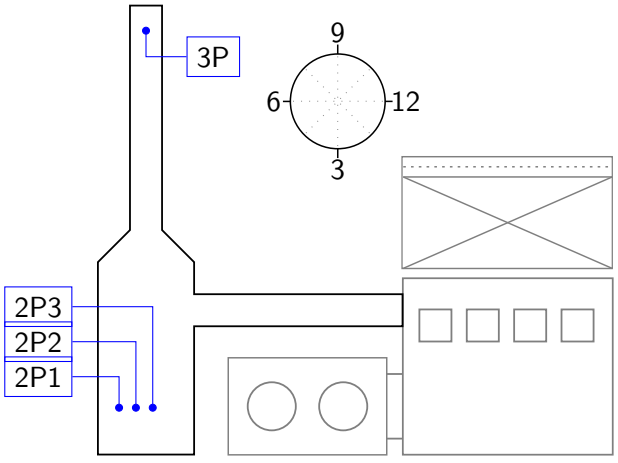


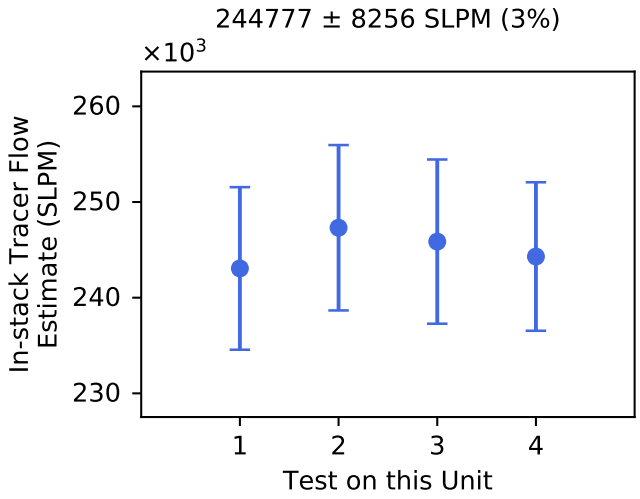
Facility	441
Unit	4
Make	Caterpillar
Model	G3612
Type	4SLB
Rating (hp)	3665
Load	0.97

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P3	Single	No	3P	Multi	6clock	30	0.669±0.012	2.8±0.1	969±29	243057±8496	9.3±0.4
2	2P2	Single	No	3P	Multi	6clock	30	0.670±0.012	2.7±0.1	975±29	247311±8644	9.5±0.4
3	2P1	Single	No	3P	Multi	6clock	30	0.674±0.012	2.7±0.1	977±29	245863±8582	9.5±0.4
4	2P3	Single	No	3P	Multi	6clock	30	1.343±0.014	5.5±0.2	978±29	244303±7761	9.4±0.4



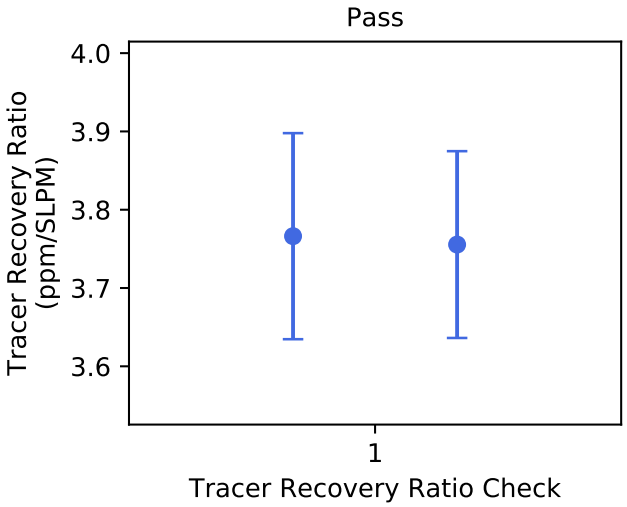


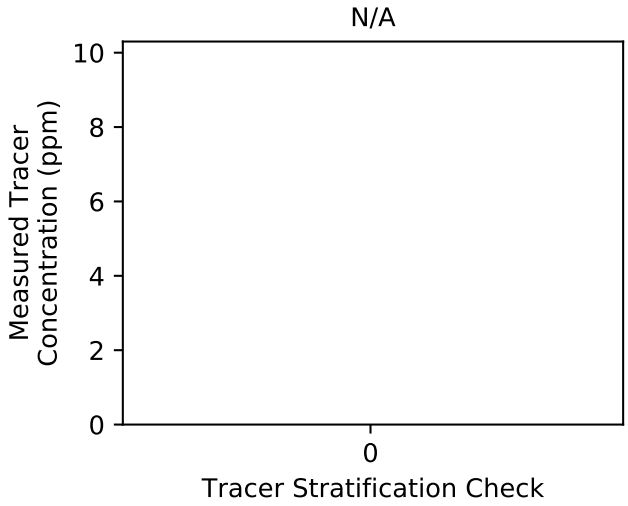


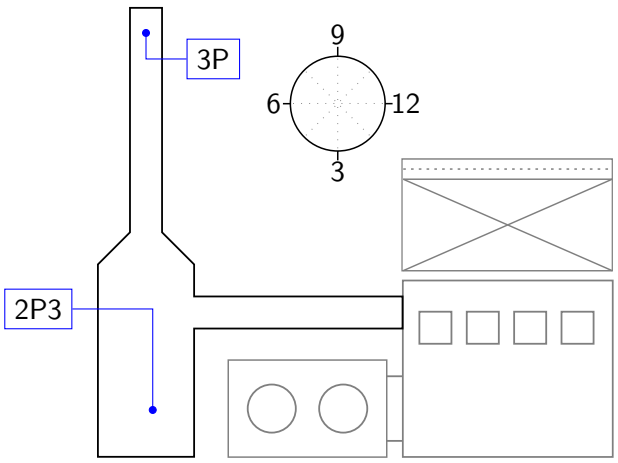


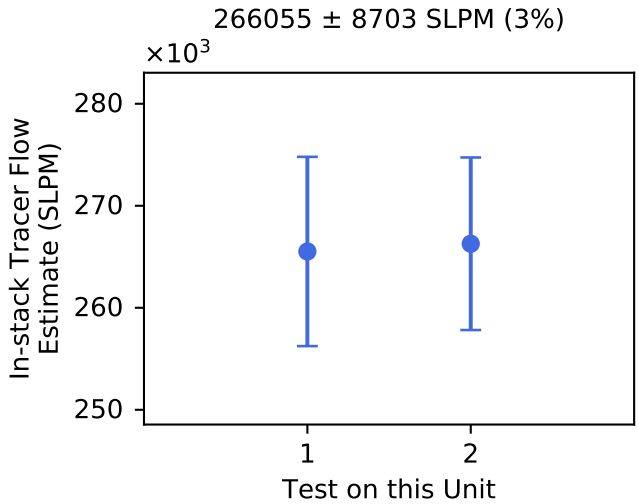
Facility	441
Unit	5
Make	Caterpillar
Model	G3612
Type	4SLB
Rating (hp)	3665
Load	1.04

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P3	Single	No	3P	Multi	6clock	30	0.670±0.012	2.5±0.1	926±28	265519±9278	9.7±0.4
2	2P3	Single	No	3P	Multi	6clock	30	1.344±0.014	5.0±0.2	928±28	266277±8458	9.7±0.4



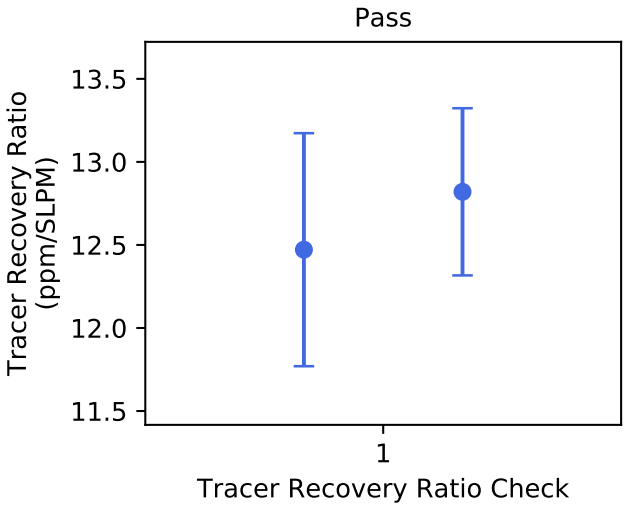


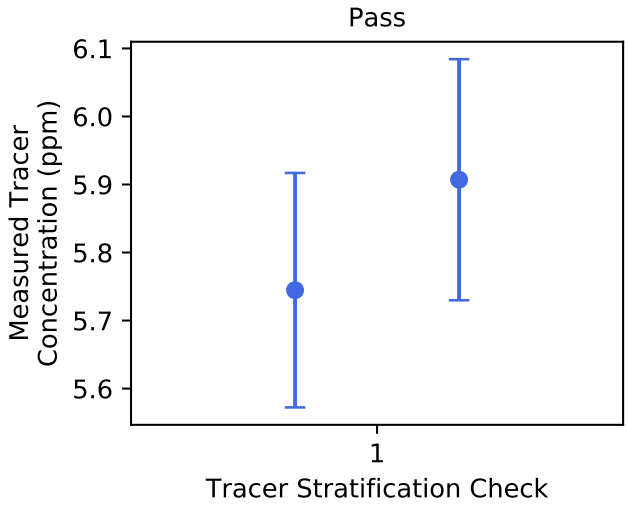


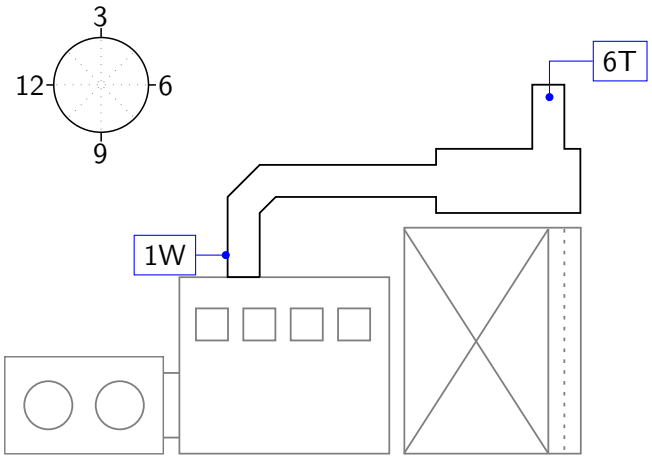


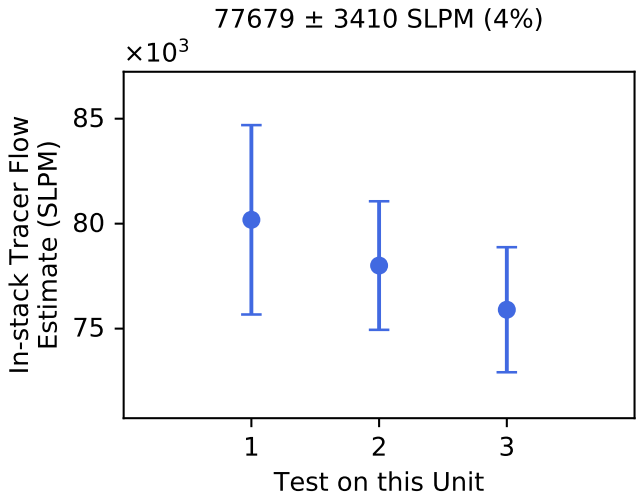
Facility	19
Unit	1
Make	Caterpillar
Model	G3516 B
Type	4SLB
Rating (hp)	1380
Load	0.81

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	1W	None	No	6T	Multi	9clock	25	0.224±0.011	2.8±0.1	639±19	80184±4511	2.0±0.1
2	1W	None	No	6T	Multi	9clock	25	0.448±0.011	5.7±0.2	646±19	78004±3062	2.0±0.1
3	1W	None	No	6T	Multi	6clock	25	0.448±0.011	5.9±0.2	654±20	75900±2979	2.0±0.1



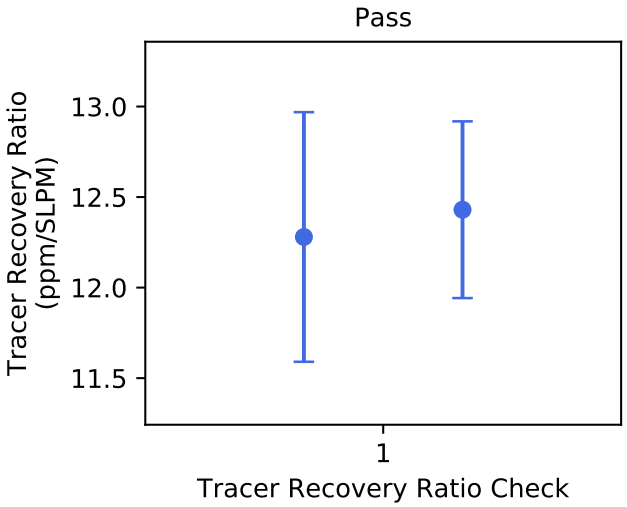


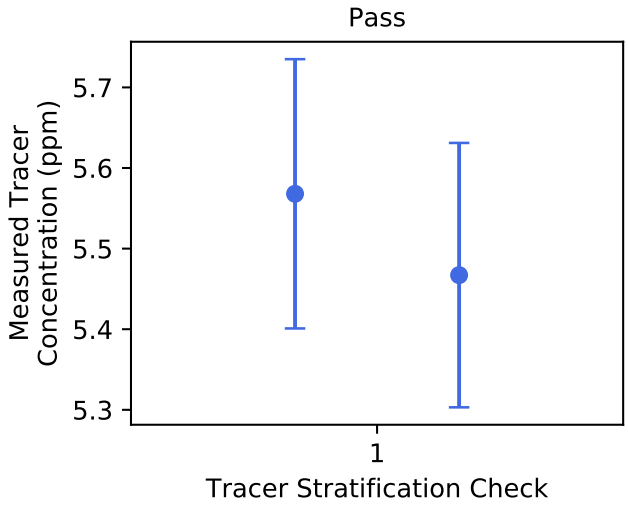


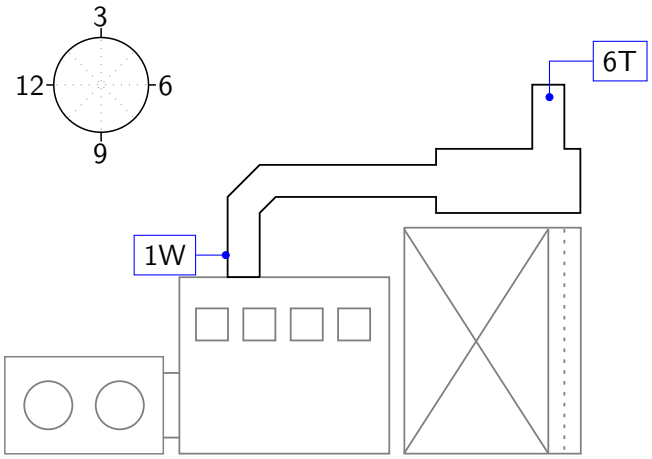


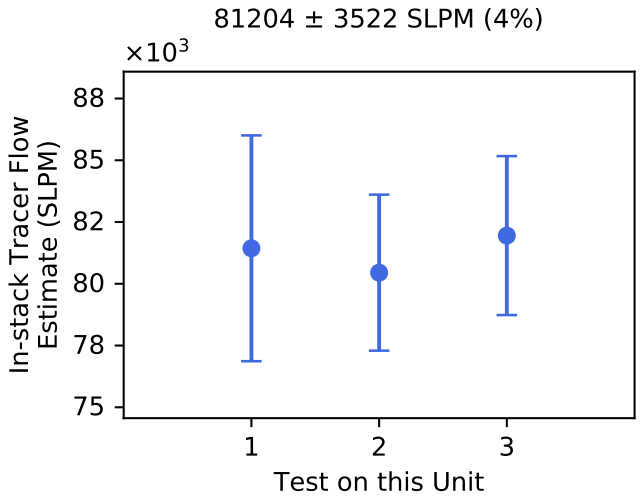
Facility 19
Unit 2
Make Caterpillar
Model G3516 B
Type 4SLB
Rating (hp) 1380
Load 0.78

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	1W	None	No	6T	Multi	430clock	25	0.225±0.011	2.8±0.1	635±19	81436±4571	2.0±0.1
2	1W	None	No	6T	Multi	430clock	25	0.448±0.011	5.6±0.2	639±19	80450±3158	2.0±0.1
3	1W	None	No	6T	Multi	730clock	25	0.448±0.011	5.5±0.2	622±19	81951±3217	2.0±0.1



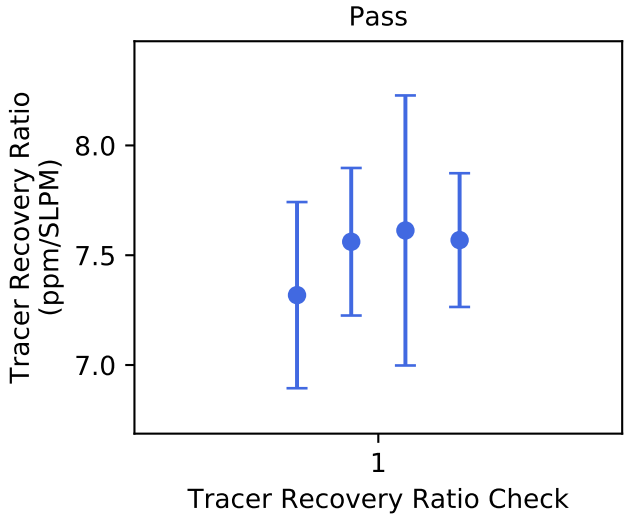


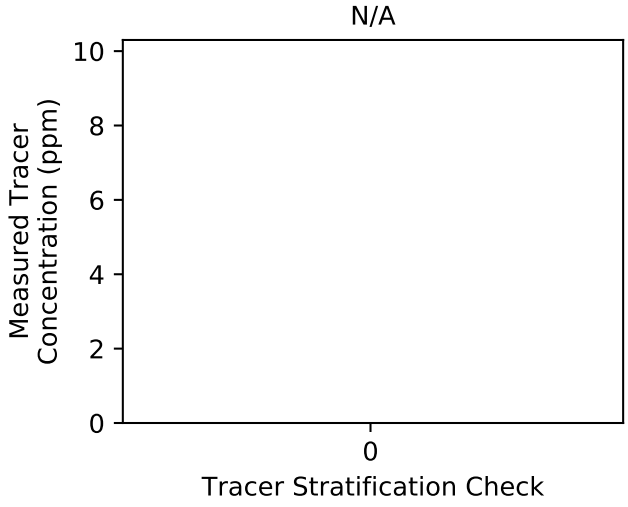


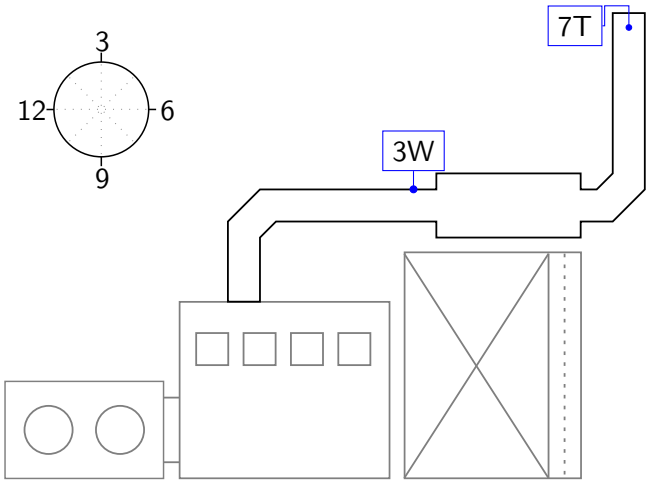


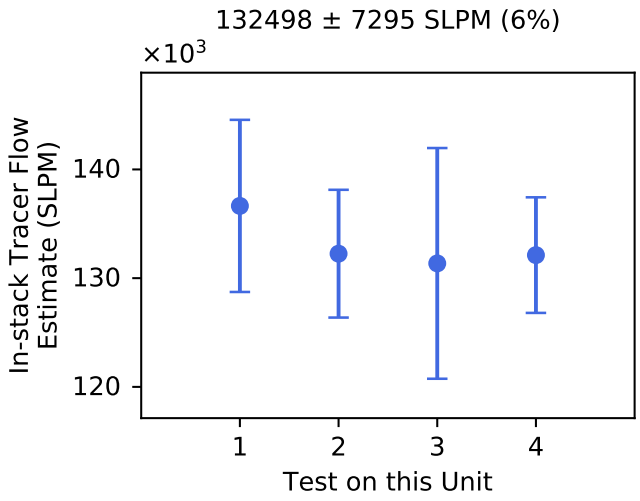
Facility 1451
Unit 1
Make Caterpillar
Model G3606 TA
Type 4SLB
Rating (hp) 1775
Load 0.96

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	Yes	7T	MultiTee	6clock	20	0.224±0.011	1.6±0.1	861±26	136645±7916	4.6±0.3
2	3W	None	Yes	7T	MultiTee	6clock	20	0.336±0.011	2.5±0.1	857±26	132251±5876	4.5±0.2
3	3W	None	Yes	7T	MultiTee	6clock	20	0.390±0.029	3.0±0.1	865±26	131358±10610	4.5±0.4
4	3W	None	Yes	7T	MultiTee	6clock	20	0.420±0.011	3.2±0.1	861±26	132120±5316	4.5±0.2



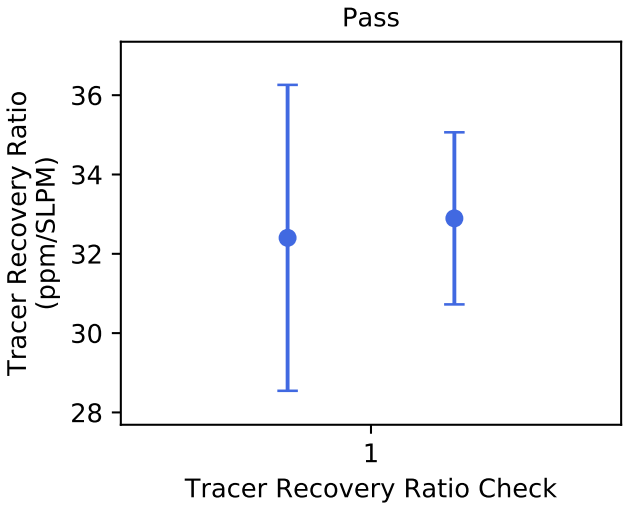


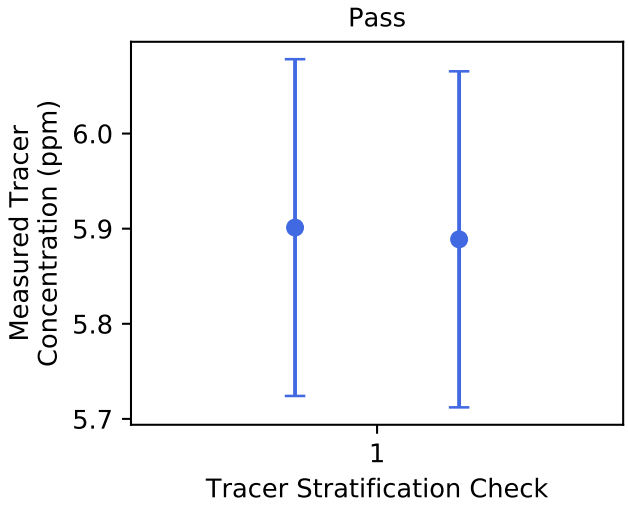


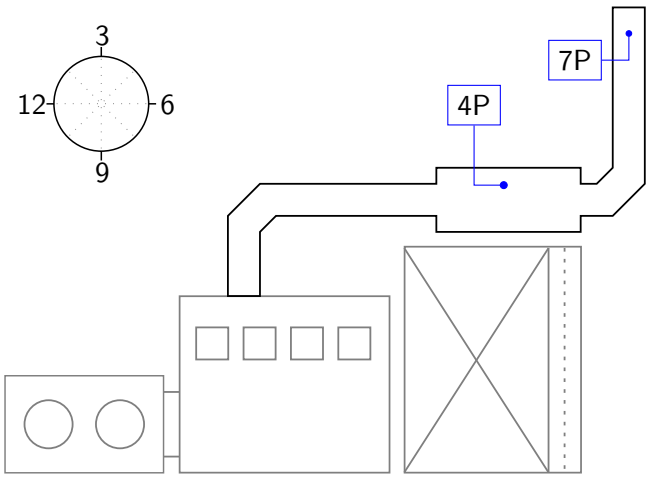


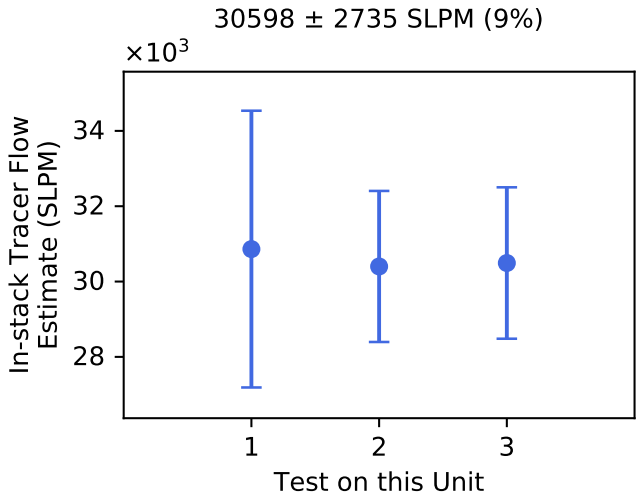
Facility	1644
Unit	1
Make	Waukesha
Model	L5794GSI
Type	4SRB
Rating (hp)	1380
Load	0.65

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4P	Single	No	7P	Multi	6clock	15	0.089±0.010	2.9±0.1	152±5	30862±3674	0.2±0.0
2	4P	Single	No	7P	Multi	6clock	15	0.179±0.011	5.9±0.2	153±5	30401±2005	0.2±0.0
3	4P	Single	No	7P	Multi	9clock	15	0.180±0.011	5.9±0.2	155±5	30492±2010	0.2±0.0



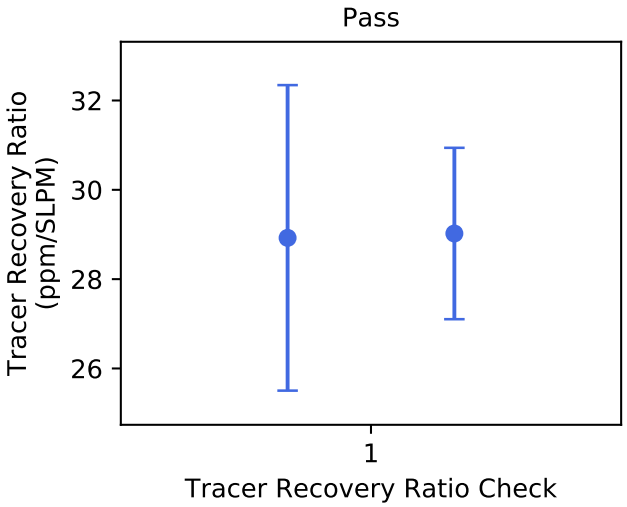


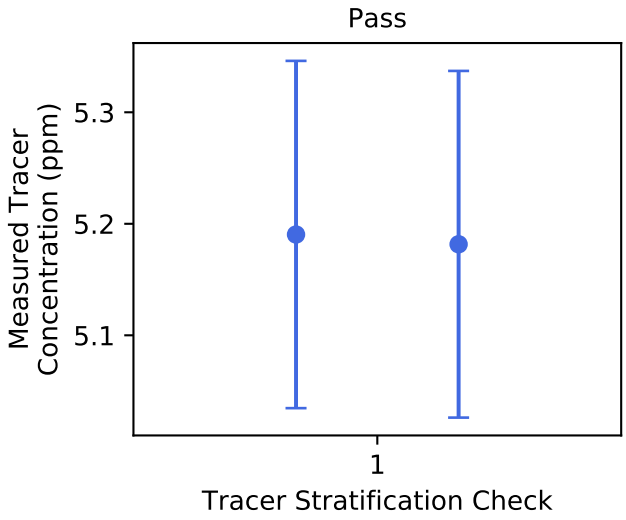


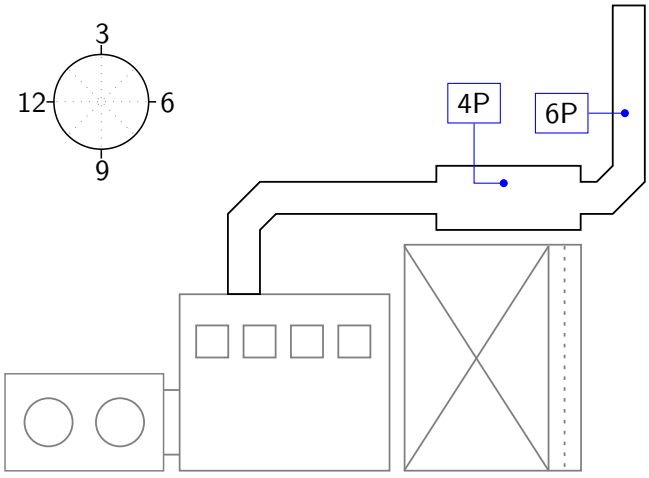


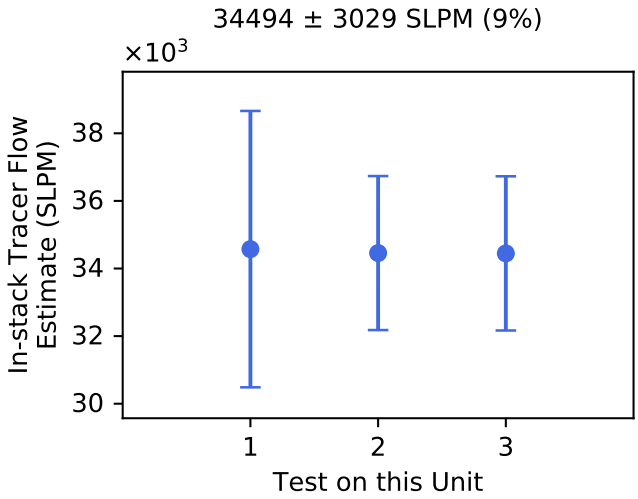
Facility 1644
Unit 2
Make Waukesha
Model L5794GSI
Type 4SRB
Rating (hp) 1380
Load 0.71

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4P	Single	No	6P	Multi	6clock	12	0.090±0.010	2.6±0.1	45±10	34573±4088	0.1±0.0
2	4P	Single	No	6P	Multi	6clock	12	0.179±0.011	5.2±0.2	42±10	34457±2278	0.1±0.0
3	4P	Single	No	6P	Multi	9clock	12	0.178±0.011	5.2±0.2	57±16	34447±2281	0.1±0.0



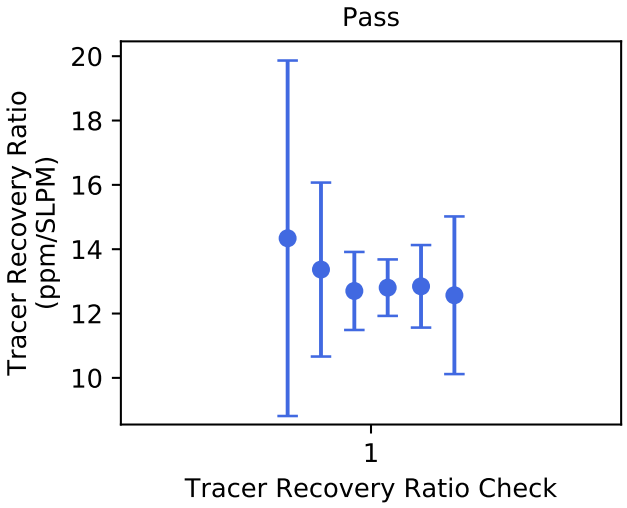


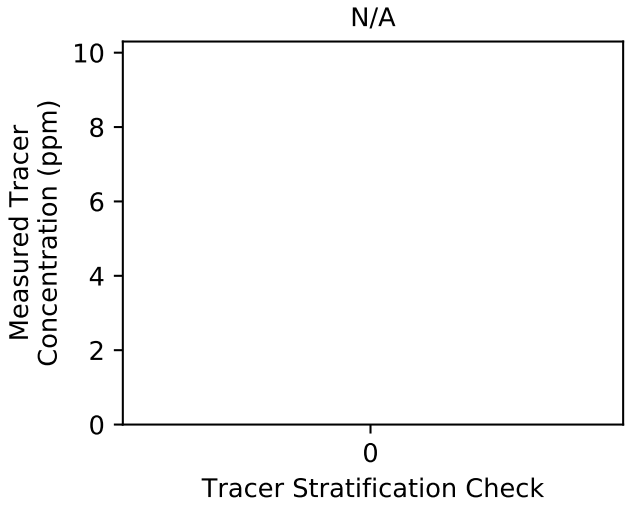


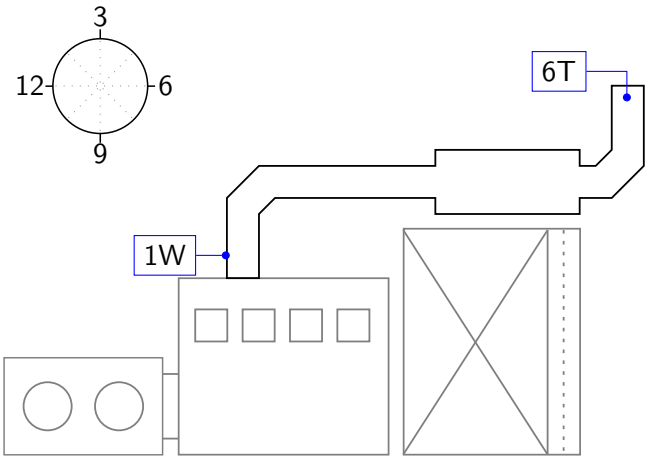


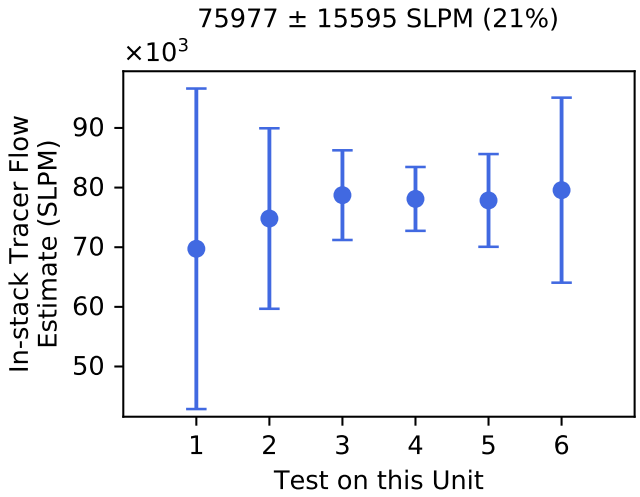
Facility 430
Unit 2
Make Caterpillar
Model G3516 TA
Type 4SLB
Rating (hp) 1340
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	1W	None	No	6T	MultiTee	6clock	20	0.108±0.042	1.6±0.0	2368±71	69736±26871	6.5±2.5
2	1W	None	No	6T	MultiTee	6clock	20	0.229±0.046	3.1±0.1	2317±70	74810±15133	6.8±1.4
3	1W	None	No	6T	MultiTee	6clock	20	0.451±0.041	5.7±0.2	2314±69	78730±7518	7.2±0.7
4	1W	None	No	6T	MultiTee	6clock	20	0.671±0.041	8.6±0.3	2328±70	78100±5353	7.2±0.5
5	1W	None	No	6T	MultiTee	6clock	20	0.447±0.043	5.7±0.2	2318±70	77846±7775	7.1±0.7
6	1W	None	No	6T	MultiTee	6clock	20	0.231±0.044	2.9±0.1	2304±69	79567±15513	7.2±1.4



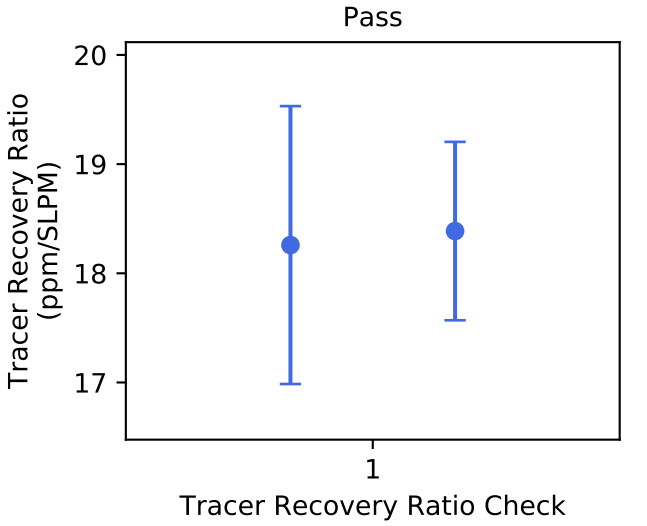


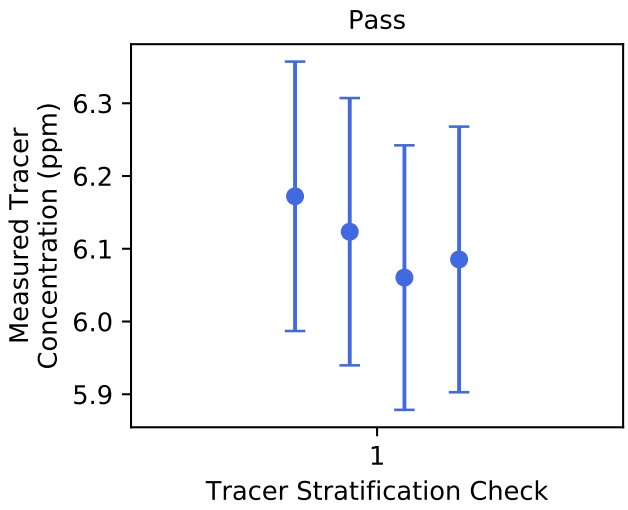


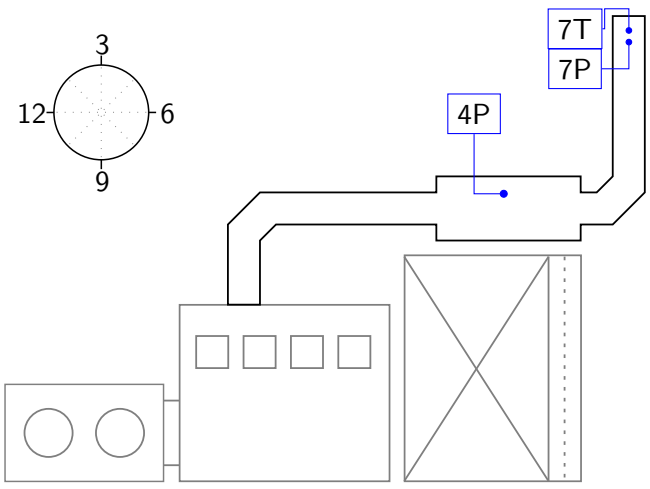


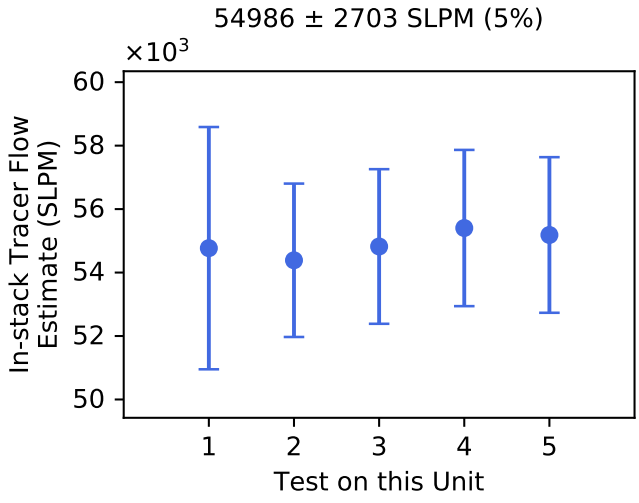
Facility 2927
Unit 1
Make Waukesha
Model L5794GSI
Type 4SRB
Rating (hp) 1380
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4P	Single	No	7T	Multi	6clock	12	0.167±0.011	3.0±0.1	67±4	54769±3818	0.1±0.0
2	4P	Single	No	7T	Multi	6clock	12	0.336±0.011	6.2±0.2	52±10	54387±2417	0.1±0.0
3	4P	Single	No	7T	Multi	9clock	12	0.336±0.011	6.1±0.2	69±4	54822±2436	0.1±0.0
4	4P	Single	No	7P	Multi	6clock	4	0.336±0.011	6.1±0.2	61±14	55403±2462	0.1±0.0
5	4P	Single	No	7P	Multi	9clock	4	0.336±0.011	6.1±0.2	33±23	55184±2452	0.1±0.0



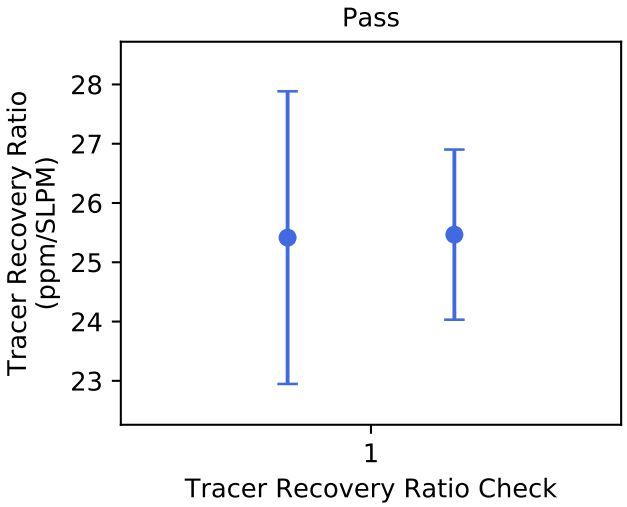


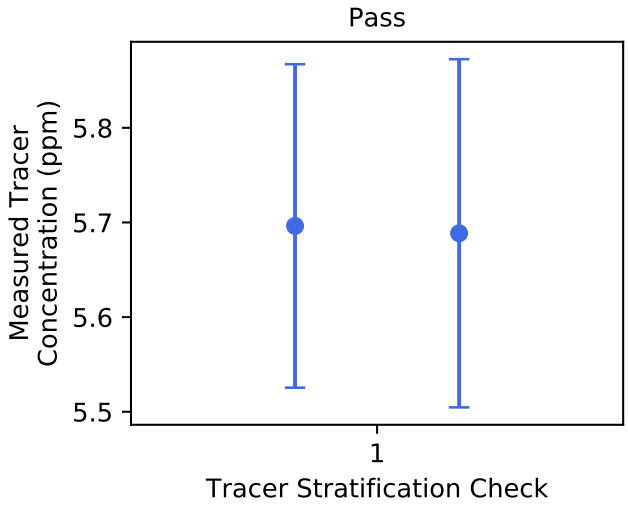


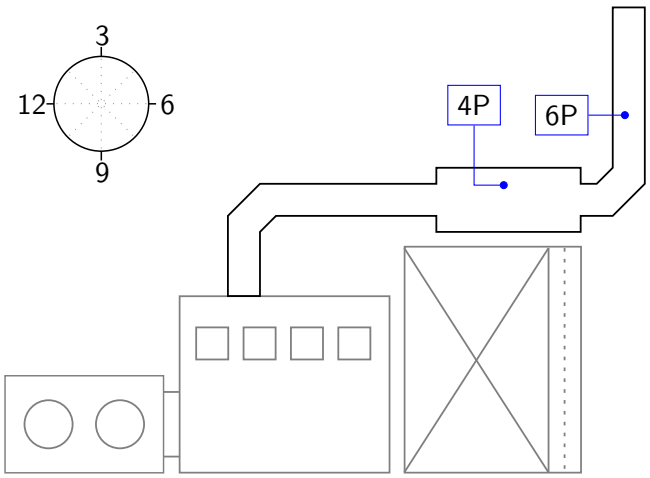


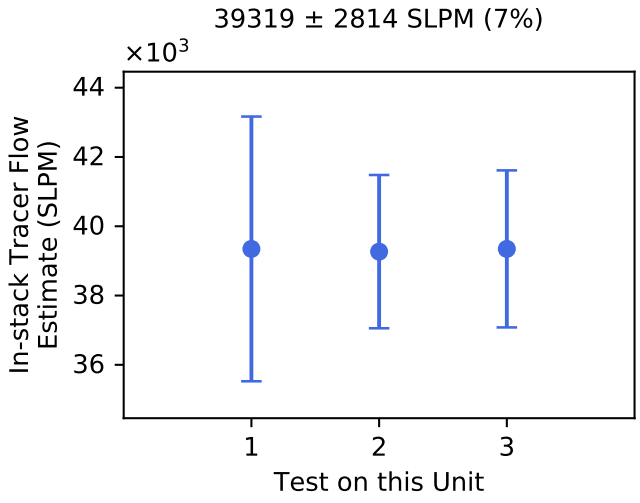
Facility	2927
Unit	2
Make	Waukesha
Model	L5794GSI
Type	4SRB
Rating (hp)	1380
Load	-

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4P	Single	No	6P	Multi	6clock	10	0.112±0.010	2.8±0.1	94±4	39346±3821	0.1±0.0
2	4P	Single	No	6P	Multi	6clock	10	0.224±0.011	5.7±0.2	94±4	39267±2213	0.1±0.0
3	4P	Single	No	6P	Multi	9clock	10	0.224±0.011	5.7±0.2	98±3	39347±2267	0.2±0.0



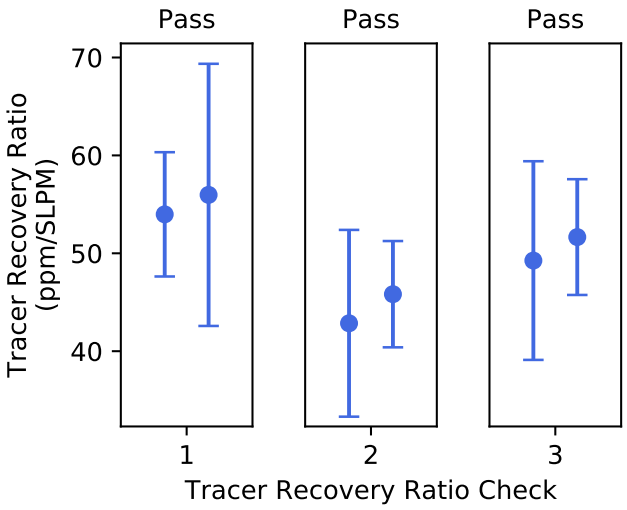


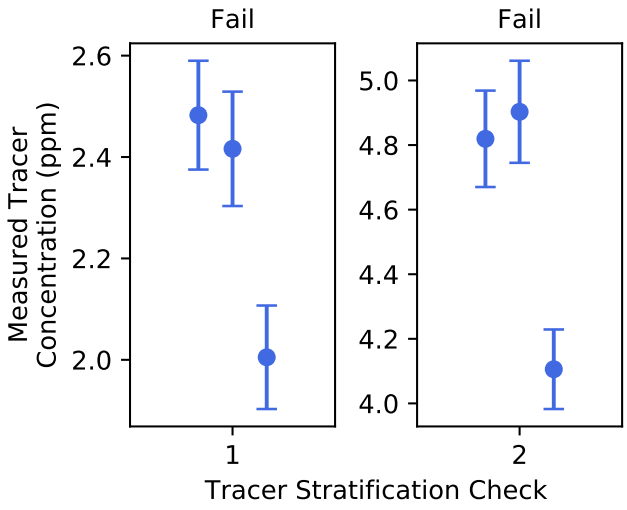


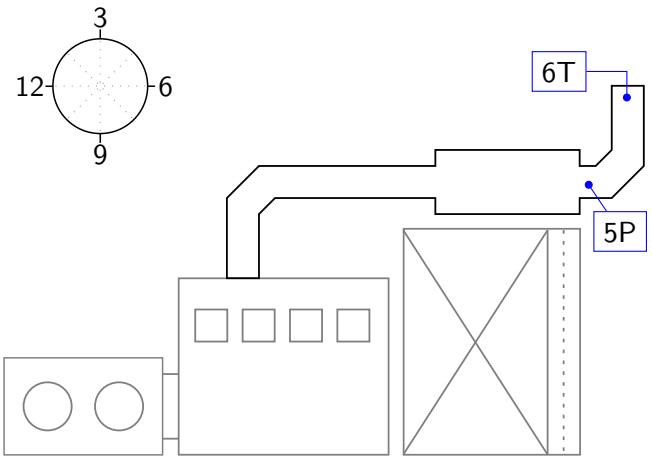


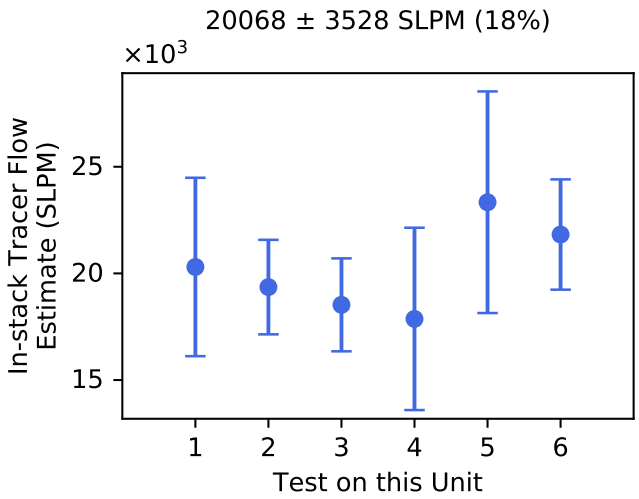
Facility 136
Unit 1
Make Waukesha
Model L7042G
Type 4SRB
Rating (hp) 580
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	5P	Shower	No	6T	Single	9clock	3	0.050±0.010	2.5±0.1	1090±33	20302±4182	0.9±0.2
2	5P	Shower	No	6T	Single	9clock	3	0.093±0.010	4.8±0.1	1069±32	19359±2216	0.8±0.1
3	5P	Shower	No	6T	Single	12clock	3	0.091±0.010	4.9±0.2	1084±33	18526±2179	0.8±0.1
4	5P	Shower	No	6T	Single	12clock	3	0.043±0.010	2.4±0.1	1079±32	17867±4275	0.8±0.2
5	5P	Shower	No	6T	Single	6clock	3	0.047±0.010	2.0±0.1	1094±33	23337±5195	1.0±0.2
6	5P	Shower	No	6T	Single	6clock	3	0.090±0.010	4.1±0.1	1105±33	21823±2585	1.0±0.1



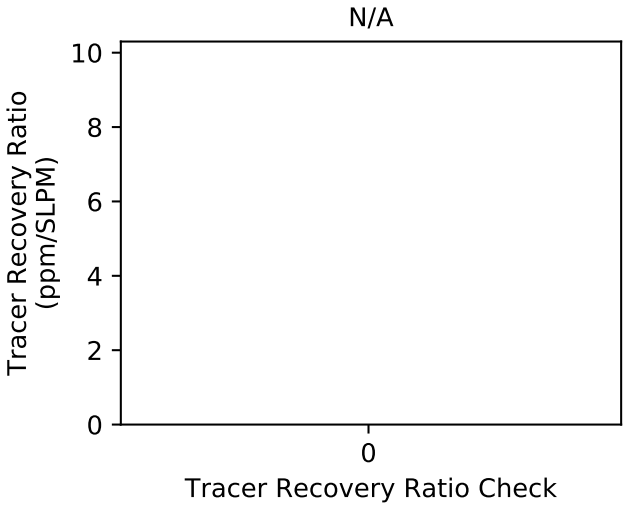


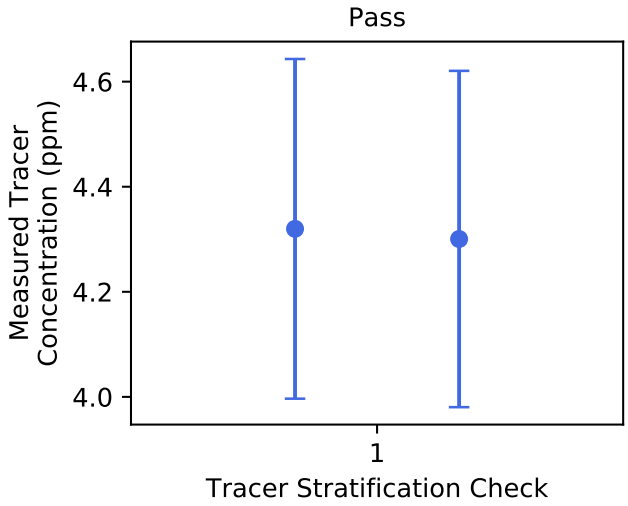


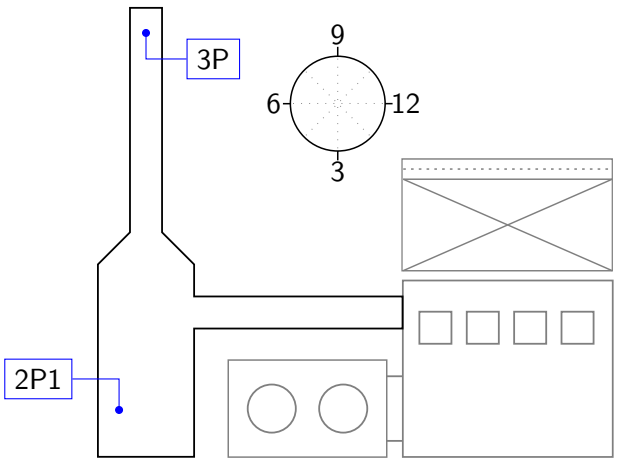


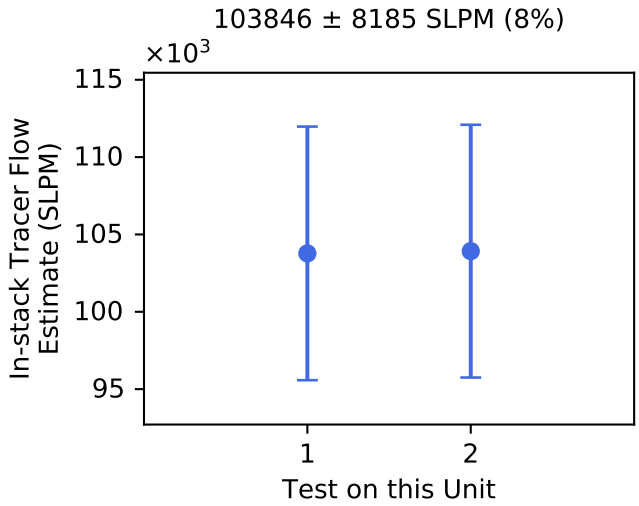
Facility 790
Unit 1
Make Caterpillar
Model G3606 TALE
Type 4SLB
Rating (hp) 1775
Load 0.81

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P1	Multi	No	3P	Multi	6clock	25	0.448±0.011	4.3±0.3	1587±70	103776±8198	6.5±0.6
2	2P1	Multi	No	3P	Multi	3clock	25	0.447±0.011	4.3±0.3	1571±77	103920±8171	6.4±0.6



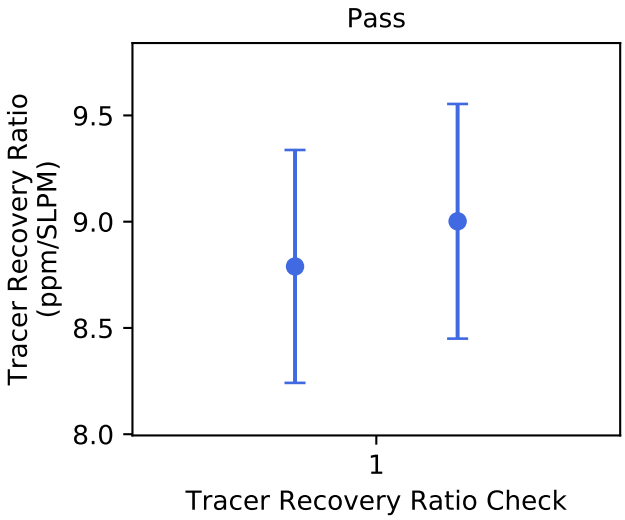


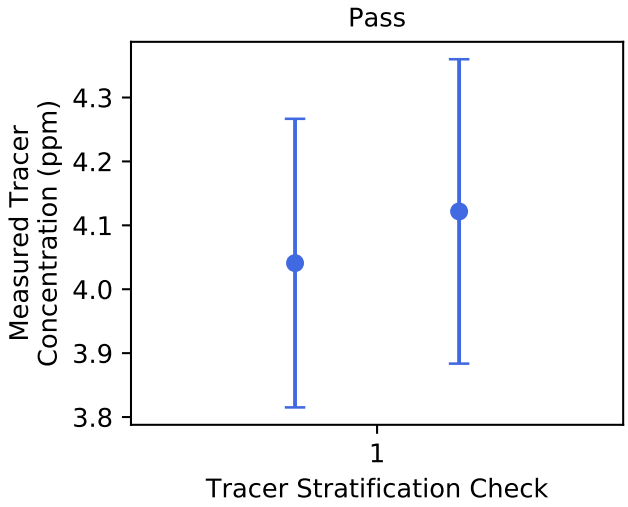


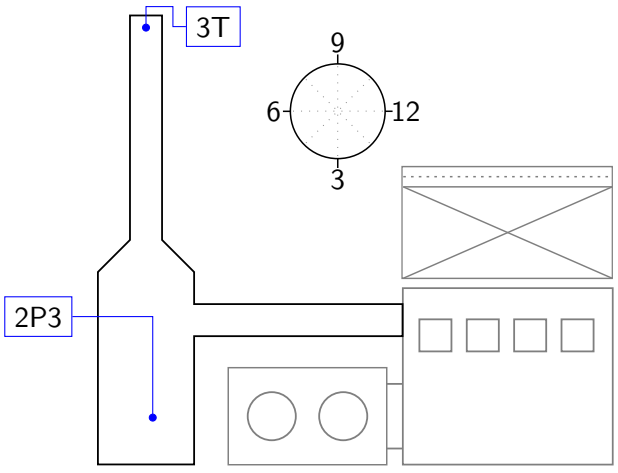


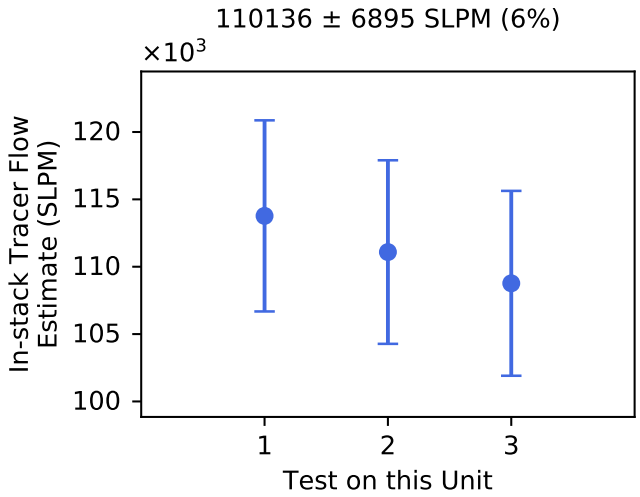
Facility	790
Unit	2
Make	Caterpillar
Model	G3606 TALE
Type	4SLB
Rating (hp)	1775
Load	0.92

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P3	Single	No	3T	Multi	6clock	25	0.337±0.011	3.0±0.2	1886±64	113773±7093	8.5±0.6
2	2P3	Single	No	3T	Multi	6clock	25	0.449±0.011	4.0±0.2	1914±67	111088±6813	8.4±0.6
3	2P3	Single	No	3T	Multi	3clock	25	0.448±0.011	4.1±0.2	1905±68	108768±6861	8.2±0.6



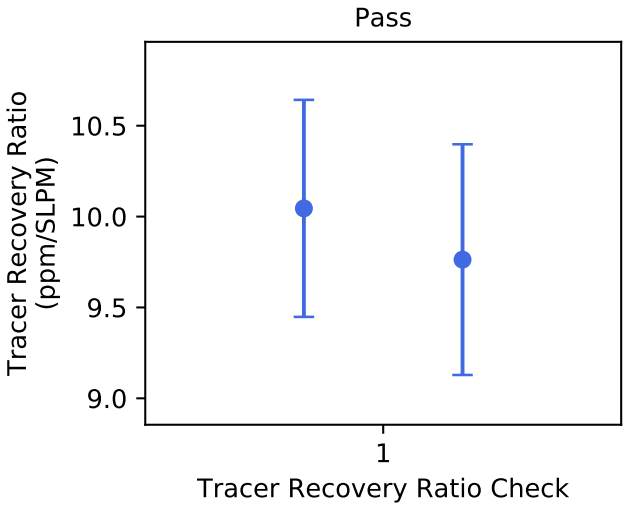


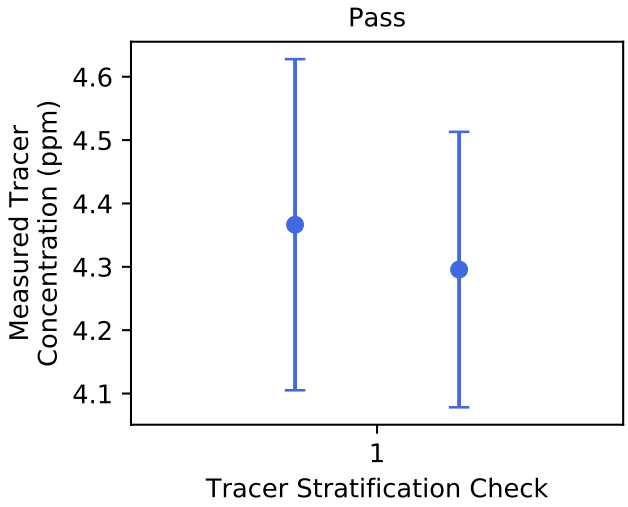


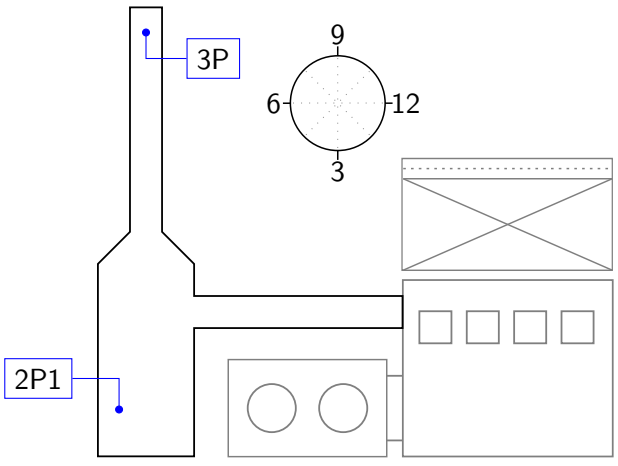


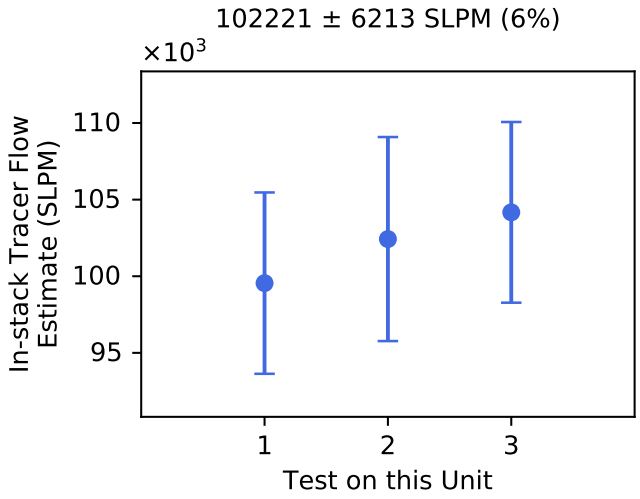
Facility 790
Unit 3
Make Caterpillar
Model G3606 TALE
Type 4SLB
Rating (hp) 1775
Load 0.86

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P1	Multi	No	3P	Multi	6clock	30	0.336±0.011	3.4±0.2	1769±53	99551±5917	6.9±0.5
2	2P1	Multi	No	3P	Multi	6clock	30	0.447±0.011	4.4±0.3	1771±55	102426±6658	7.2±0.5
3	2P1	Multi	No	3P	Multi	3clock	30	0.447±0.011	4.3±0.2	1707±51	104170±5896	7.0±0.4



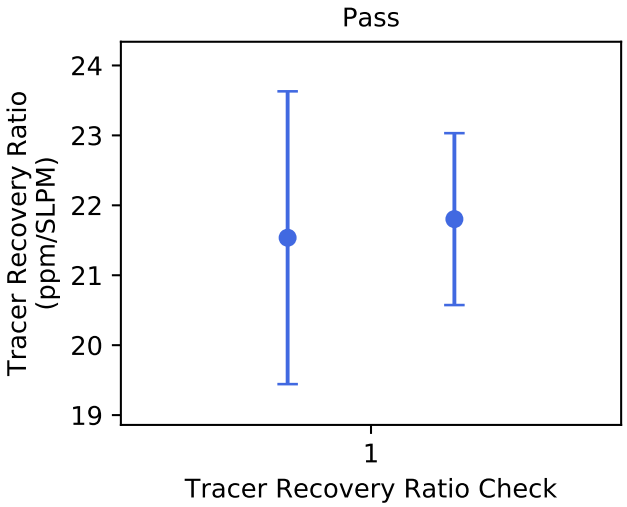


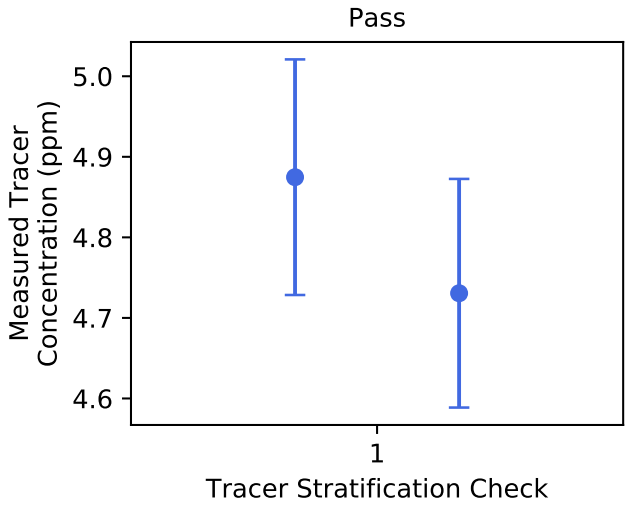


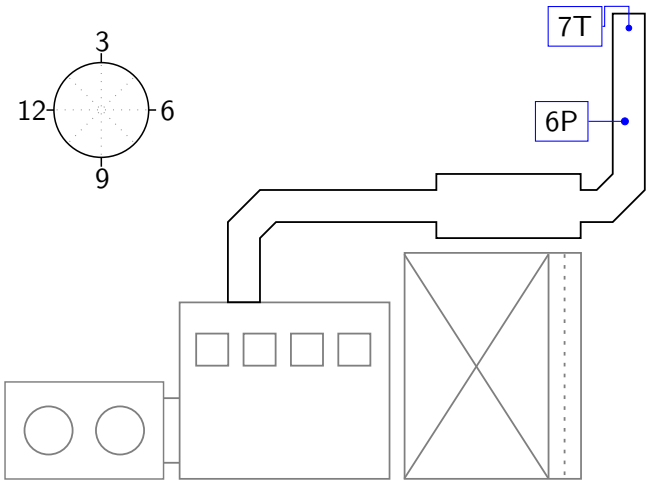


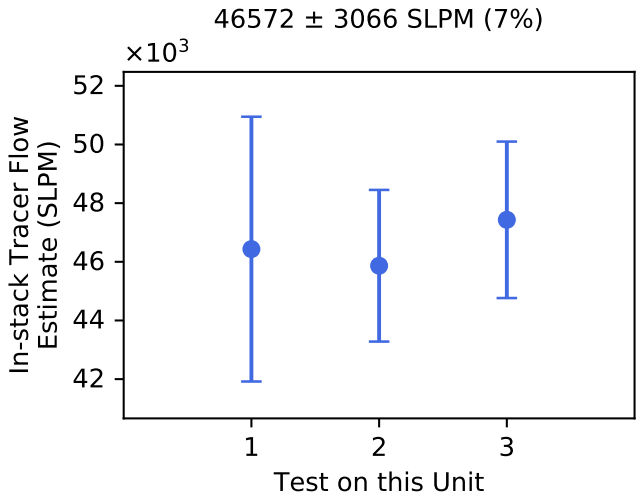
Facility 1080
Unit 1
Make Waukesha
Model L5794GSI ESM
Type 4SRB
Rating (hp) 1380
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	6P	Multi	No	7T	Multi	6clock	12	0.112±0.010	2.4±0.1	154±5	46433±4514	0.3±0.0
2	6P	Multi	No	7T	Multi	6clock	12	0.224±0.011	4.9±0.1	152±5	45866±2586	0.3±0.0
3	6P	Multi	No	7T	Multi	3clock	12	0.224±0.011	4.7±0.1	151±5	47432±2667	0.3±0.0



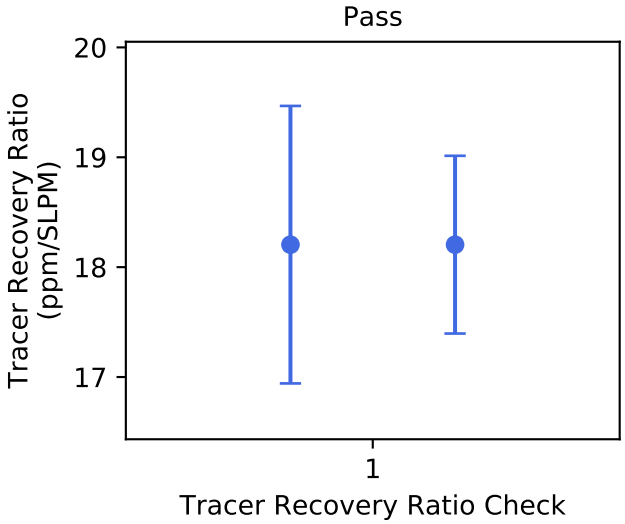


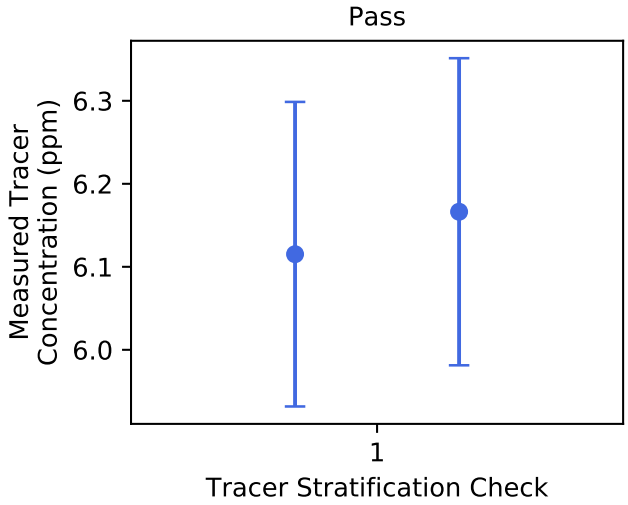


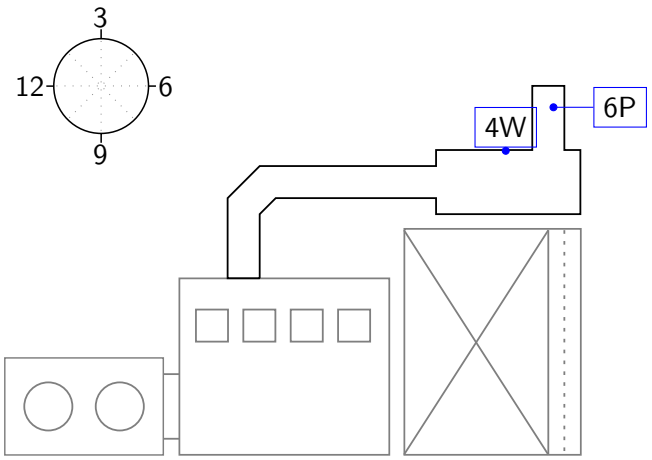


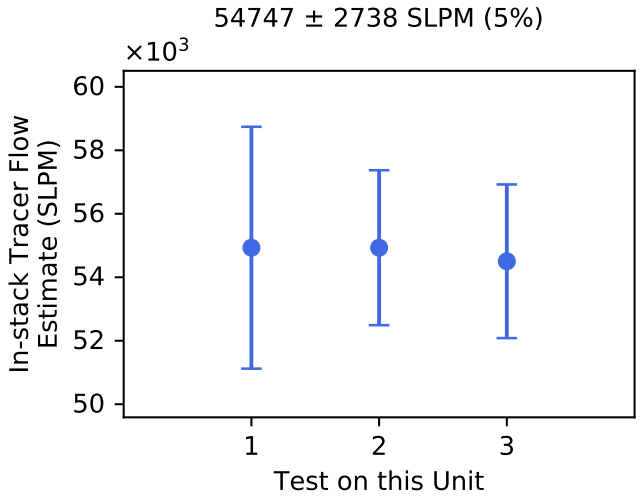
Facility 2552
Unit 2
Make Waukesha
Model L7044GSI
Type 4SRB
Rating (hp) 1120
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4W	None	No	6P	Multi	9clock	8	0.168±0.011	3.1±0.1	550±17	54931±3810	1.2±0.1
2	4W	None	No	6P	Multi	9clock	8	0.336±0.011	6.1±0.2	551±17	54931±2440	1.2±0.1
3	4W	None	No	6P	Multi	6clock	8	0.336±0.011	6.2±0.2	555±17	54504±2421	1.2±0.1



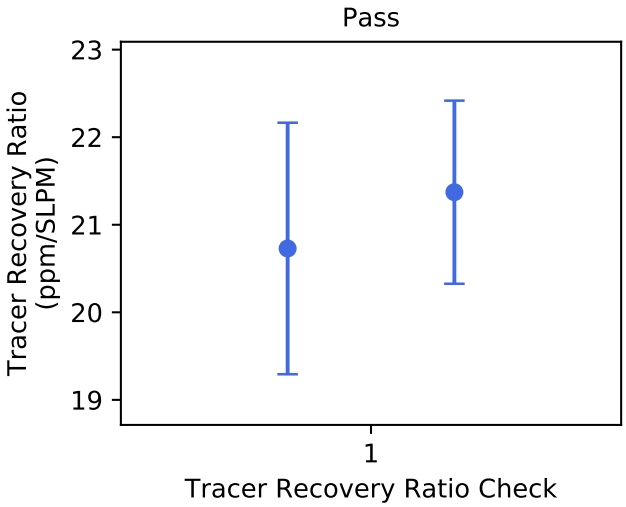


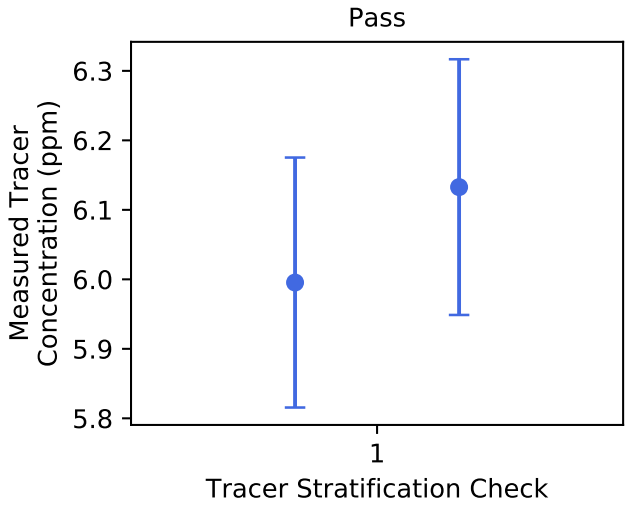


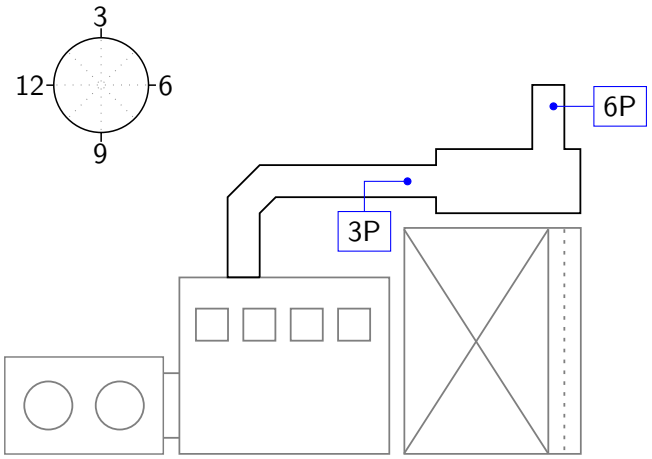


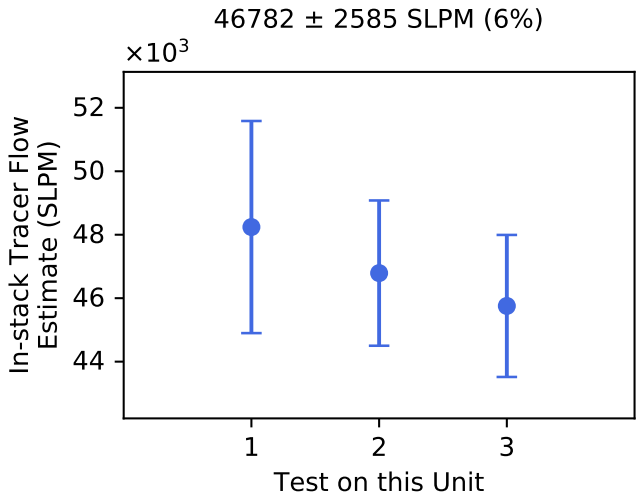
Facility 206
Unit 1
Make Waukesha
Model L7042GSI ESM
Type 4SRB
Rating (hp) 1480
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3P	Single	No	6P	Multi	9clock	12	0.168±0.011	3.5±0.1	263±36	48242±3343	0.5±0.1
2	3P	Single	No	6P	Multi	9clock	12	0.281±0.011	6.0±0.2	304±26	46791±2289	0.6±0.1
3	3P	Single	No	6P	Multi	6clock	12	0.281±0.011	6.1±0.2	255±82	45755±2238	0.5±0.1



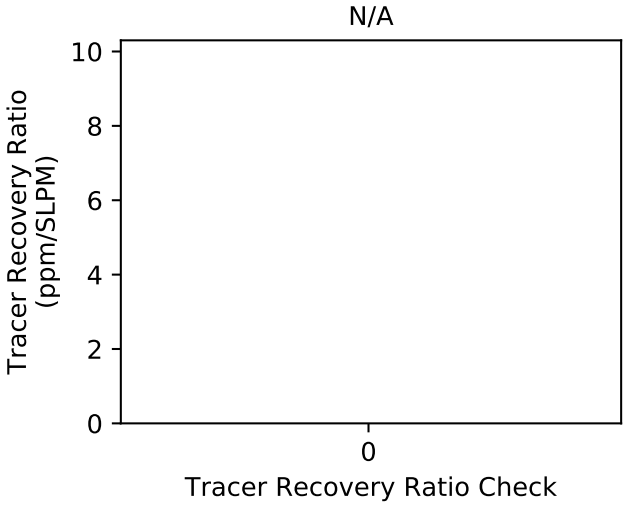


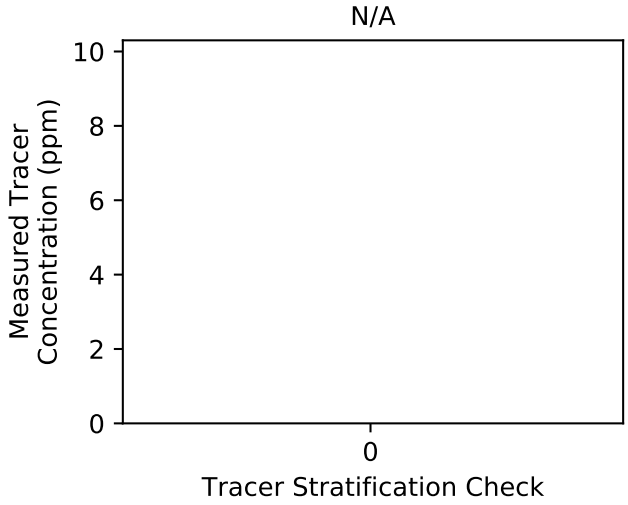


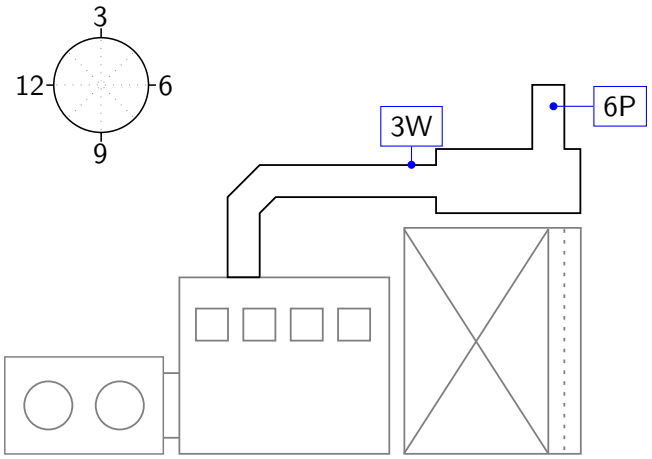


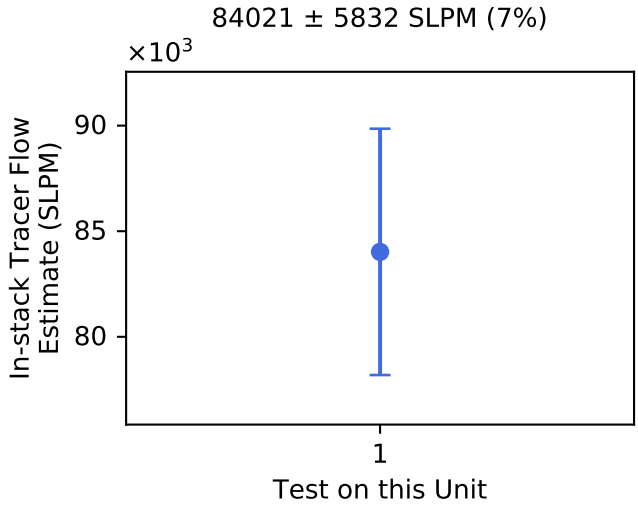
Facility 206
Unit 2
Make Waukesha
Model P9390GL
Type 4SLB
Rating (hp) 1980
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	Yes	6P	Multi	9clock	12	0.168±0.011	2.0±0.1	717±22	84021±5832	2.4±0.2



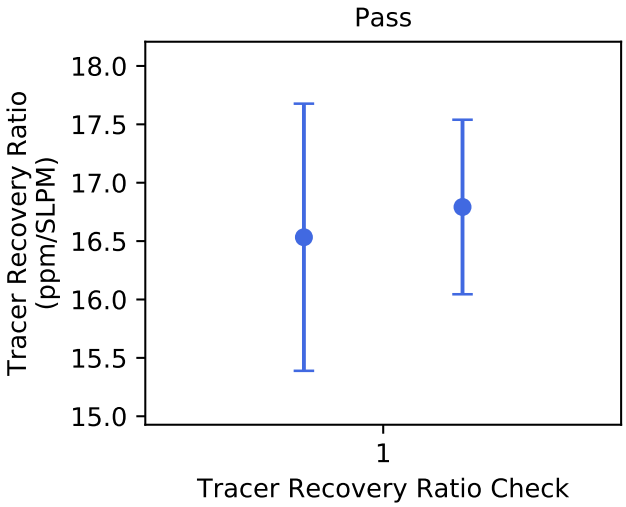


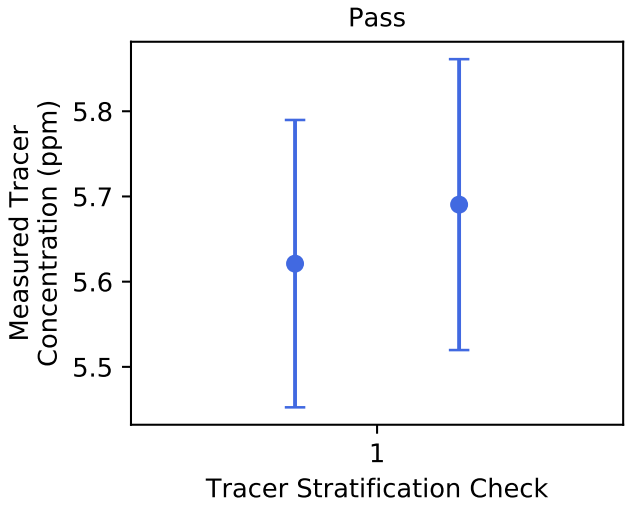


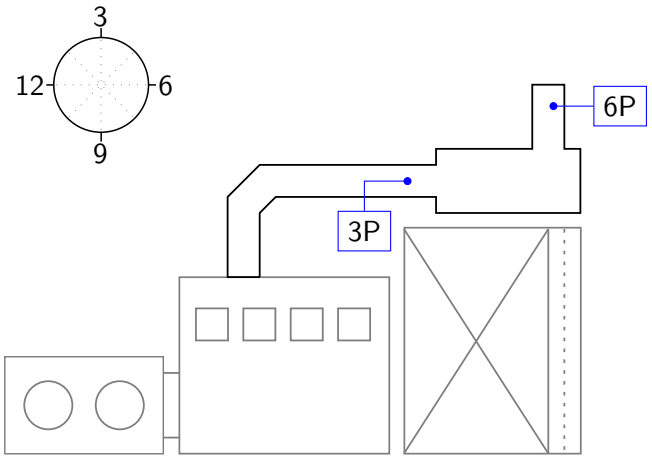


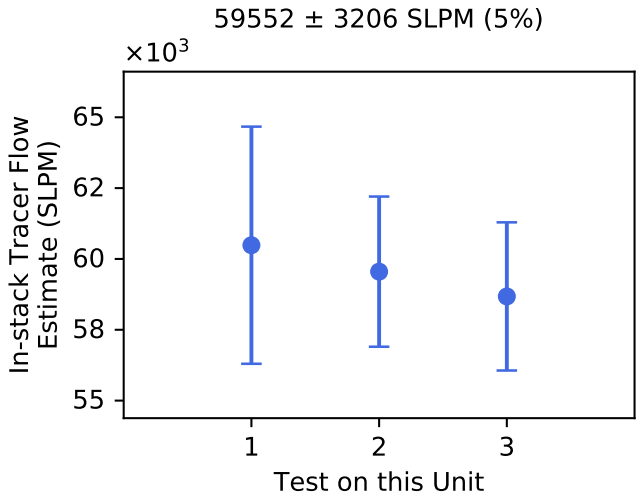
Facility	206
Unit	3
Make	Waukesha
Model	L7042GSI ESM
Type	4SRB
Rating (hp)	1480
Load	0.96

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3P	Single	No	6P	Multi	9clock	12	0.168±0.011	2.8±0.1	123±8	60485±4185	0.3±0.0
2	3P	Single	No	6P	Multi	9clock	12	0.335±0.011	5.6±0.2	126±10	59552±2650	0.3±0.0
3	3P	Single	No	6P	Multi	6clock	12	0.334±0.011	5.7±0.2	118±9	58677±2615	0.3±0.0



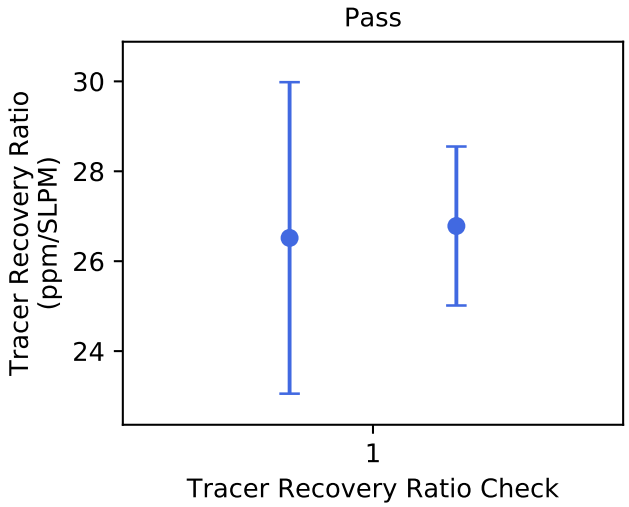


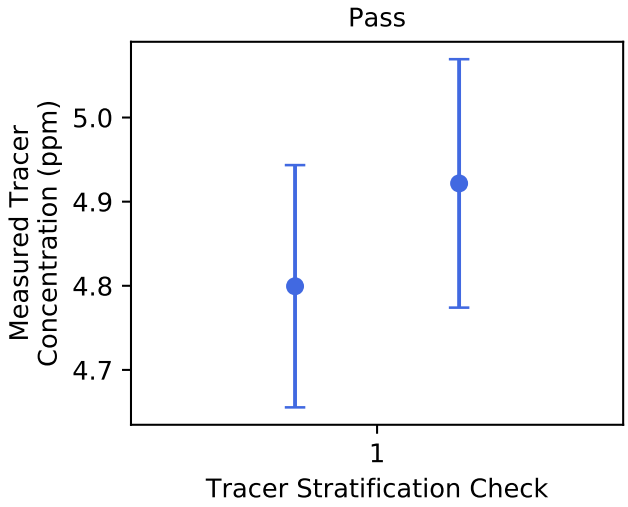


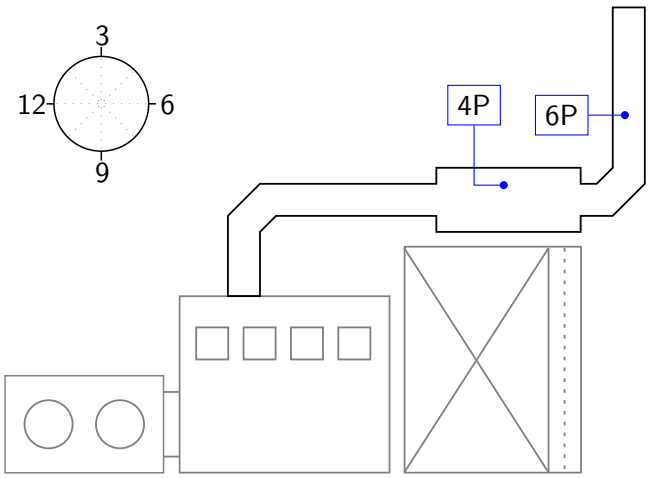


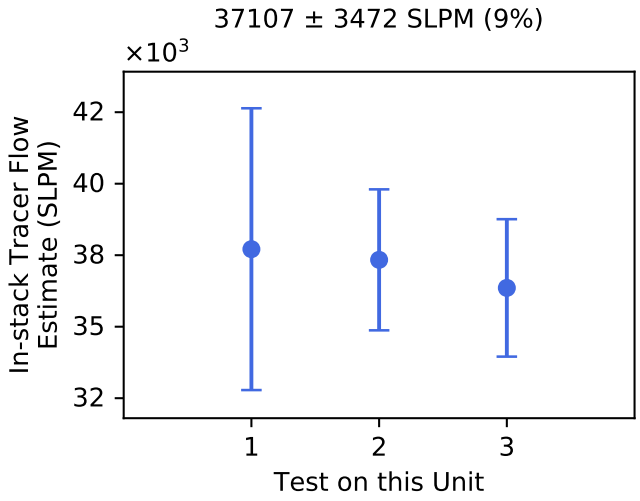
Facility 1633
Unit 1
Make Waukesha
Model L5794GSI ESM
Type 4SRB
Rating (hp) 1380
Load 0.79

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4P	Single	No	6P	Multi	6clock	6	0.089±0.010	2.4±0.1	138±4	37711±4927	0.2±0.0
2	4P	Single	No	6P	Multi	6clock	6	0.179±0.011	4.8±0.1	136±4	37338±2465	0.2±0.0
3	4P	Single	No	6P	Multi	3clock	6	0.179±0.011	4.9±0.1	137±4	36356±2403	0.2±0.0



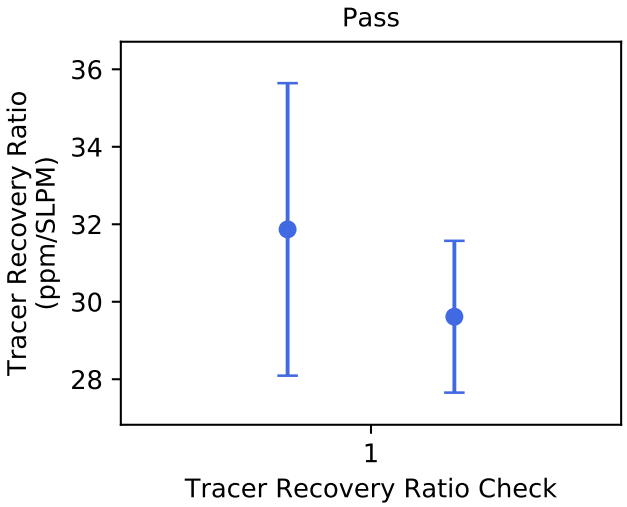


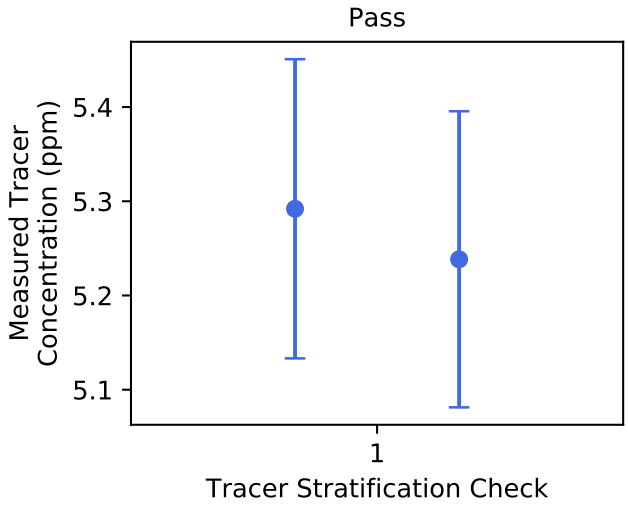


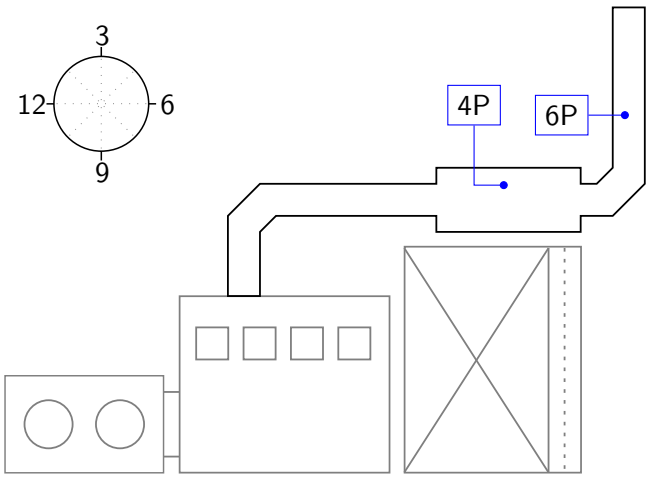


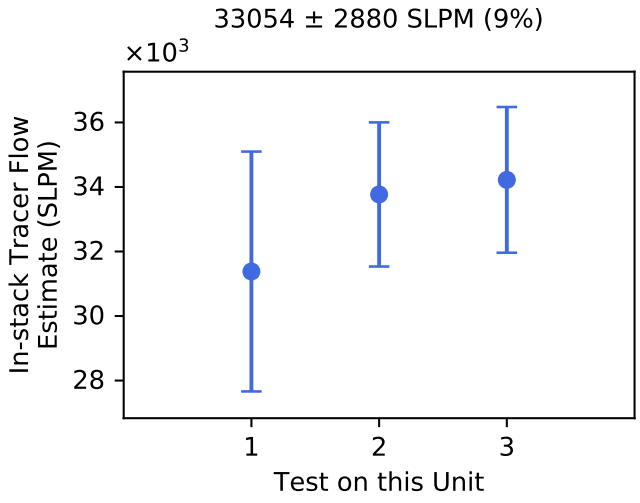
Facility 1633
Unit 2
Make Waukesha
Model L5794GSI ESM
Type 4SRB
Rating (hp) 1380
Load 0.71

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4P	Single	No	6P	Multi	6clock	10	0.090±0.010	2.9±0.1	128±16	31380±3717	0.2±0.0
2	4P	Single	No	6P	Multi	6clock	10	0.179±0.011	5.3±0.2	132±27	33768±2234	0.2±0.0
3	4P	Single	No	6P	Multi	3clock	10	0.179±0.011	5.2±0.2	126±20	34220±2258	0.2±0.0



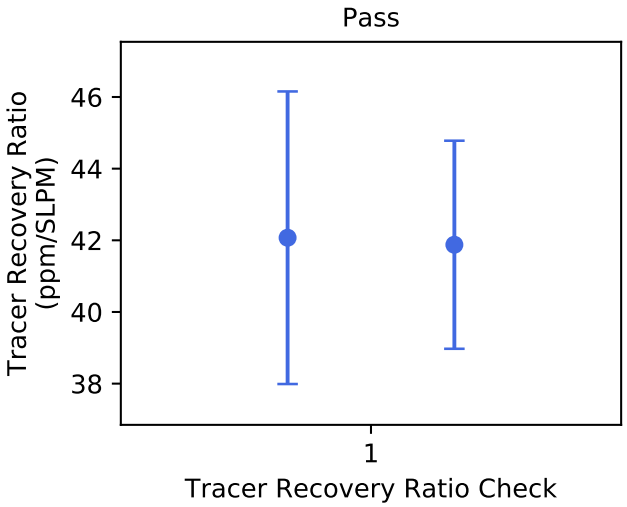


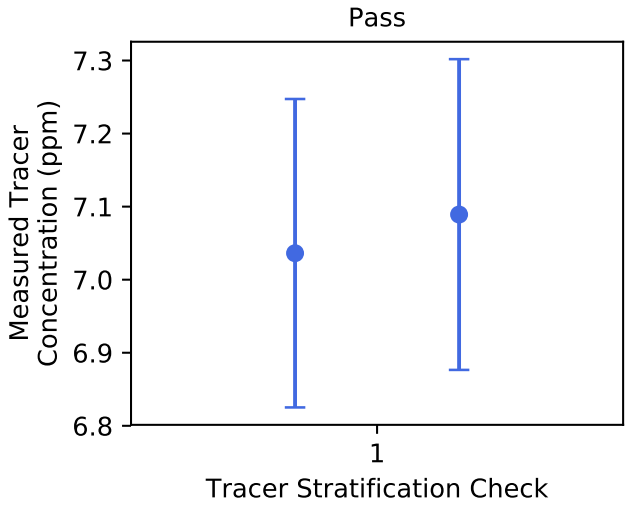


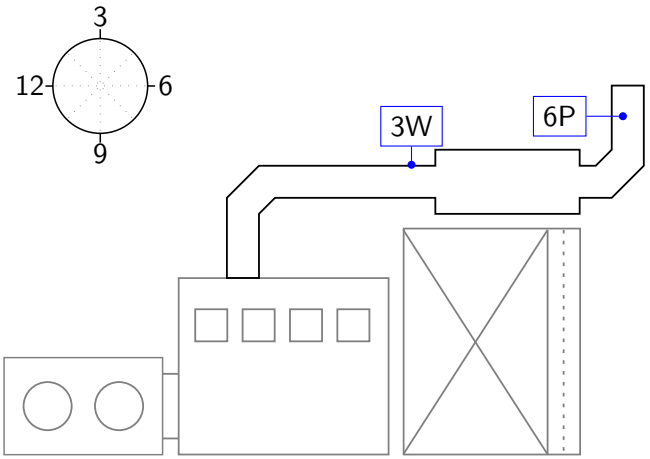


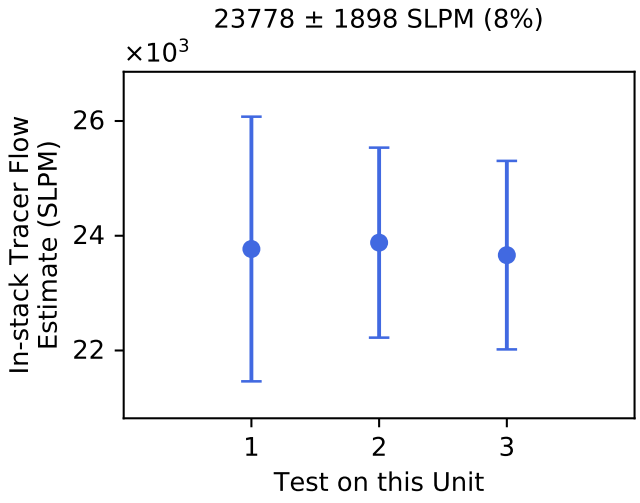
Facility	360
Unit	1
Make	Caterpillar
Model	G3508
Type	4SLB
Rating (hp)	670
Load	-

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	No	6P	Multi	6clock	10	0.112±0.010	4.7±0.1	932±28	23769±2307	0.9±0.1
2	3W	None	No	6P	Multi	6clock	10	0.168±0.011	7.0±0.2	935±28	23880±1656	0.9±0.1
3	3W	None	No	6P	Multi	9clock	10	0.168±0.011	7.1±0.2	934±28	23662±1643	0.9±0.1



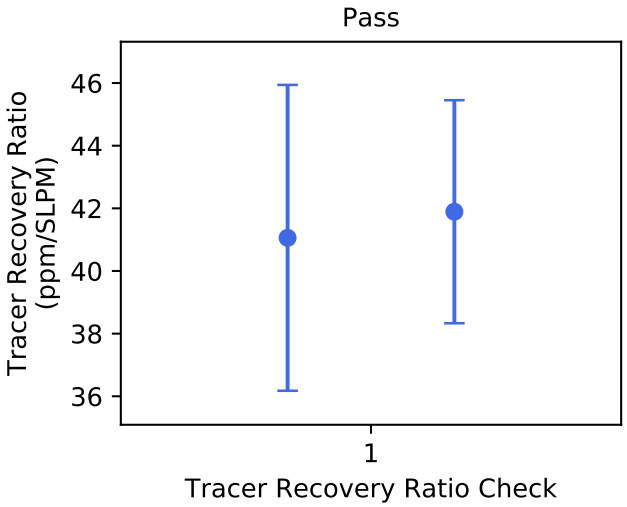


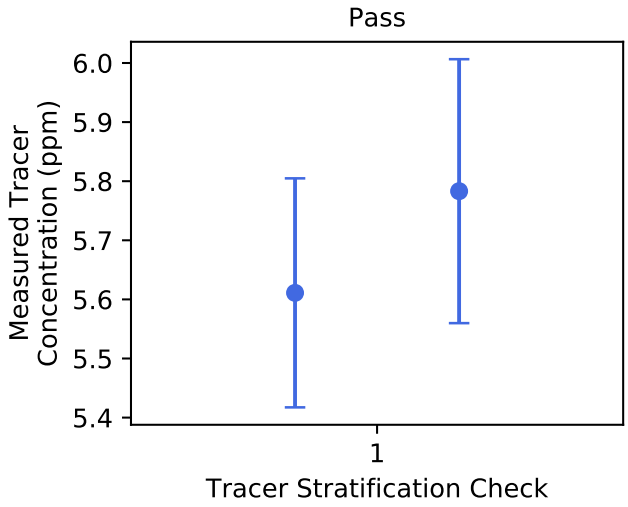


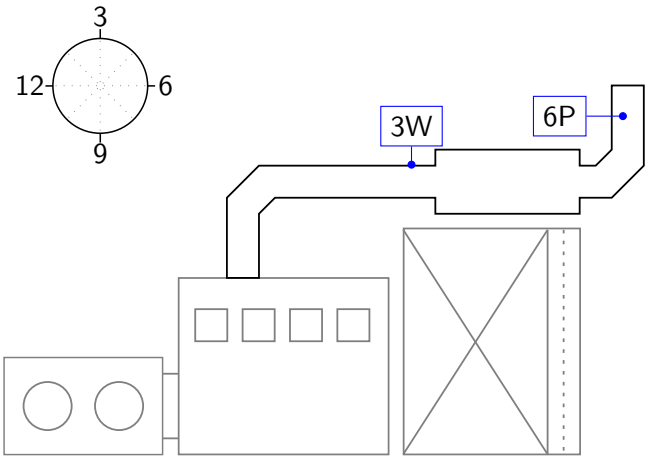


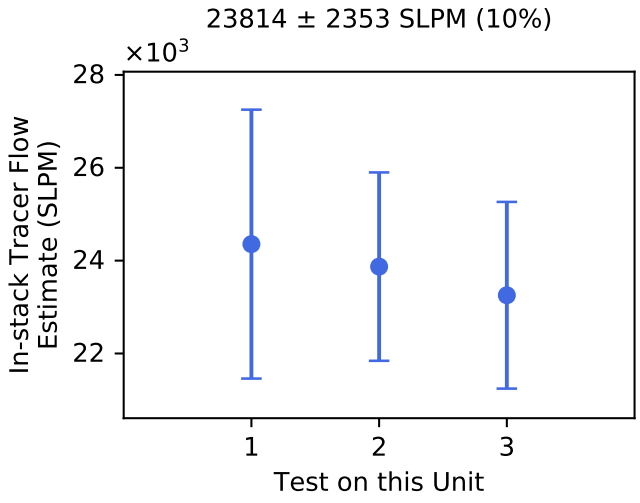
Facility	360
Unit	2
Make	Caterpillar
Model	G3508
Type	4SLB
Rating (hp)	670
Load	-

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	No	6P	Multi	6clock	10	0.089±0.010	3.7±0.1	524±33	24356±2896	0.5±0.1
2	3W	None	No	6P	Multi	6clock	10	0.134±0.010	5.6±0.2	522±28	23871±2029	0.5±0.0
3	3W	None	No	6P	Multi	9clock	10	0.134±0.010	5.8±0.2	489±30	23254±2011	0.4±0.0



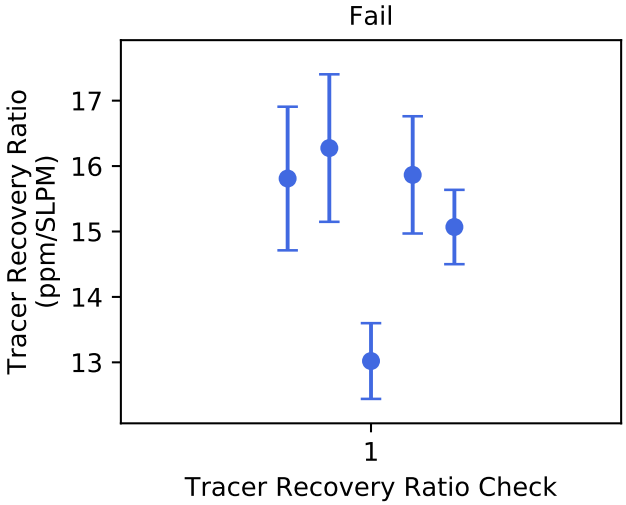


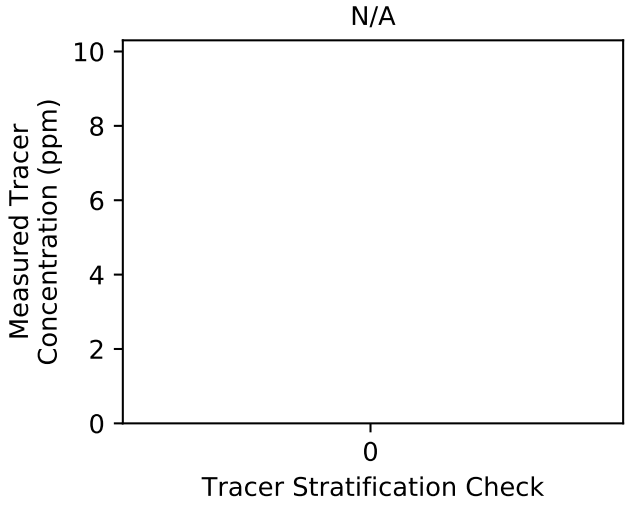


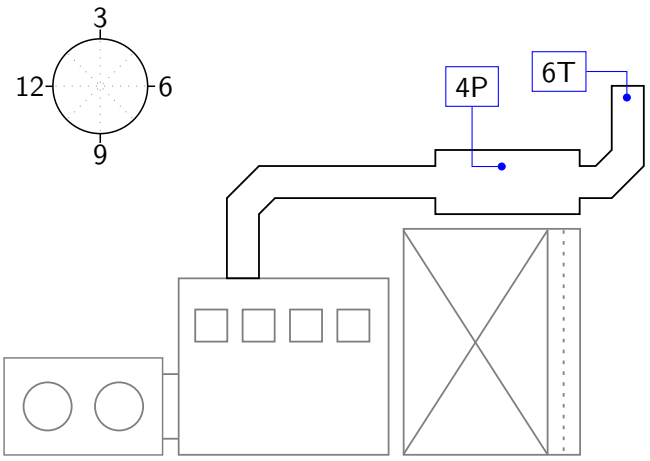


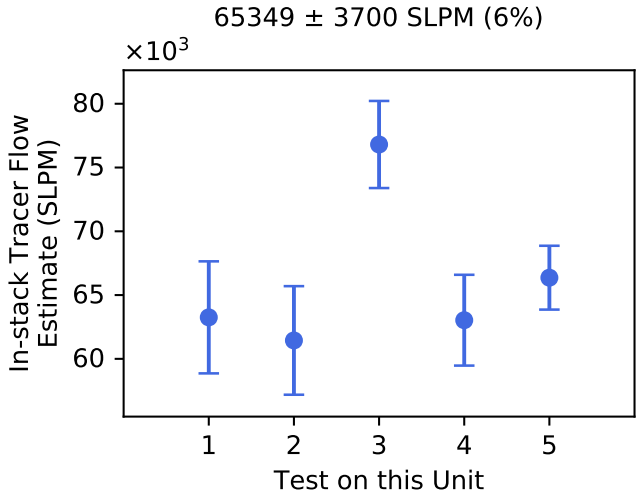
Facility 509
Unit 1
Make Caterpillar
Model G3516 B
Type 4SLB
Rating (hp) 1380
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4P	Single	No	6T	Multi	3clock	8	0.168±0.011	2.7±0.1	598±18	63252±4392	1.5±0.1
2	4P	Single	No	6T	Multi	3clock	8	0.168±0.011	2.7±0.1	596±18	61443±4256	1.4±0.1
3	4P	Single	No	6T	Multi	3clock	8	0.335±0.011	4.4±0.1	610±18	76805±3414	1.8±0.1
4	4P	Single	No	6T	Multi	3clock	8	0.504±0.012	8.0±0.4	571±17	63030±3560	1.4±0.1
5	4P	Single	No	6T	Multi	3clock	8	0.504±0.012	7.6±0.2	563±17	66363±2503	1.5±0.1



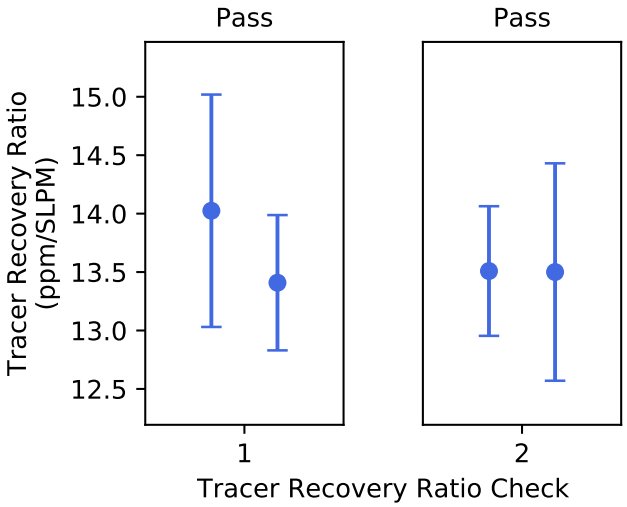


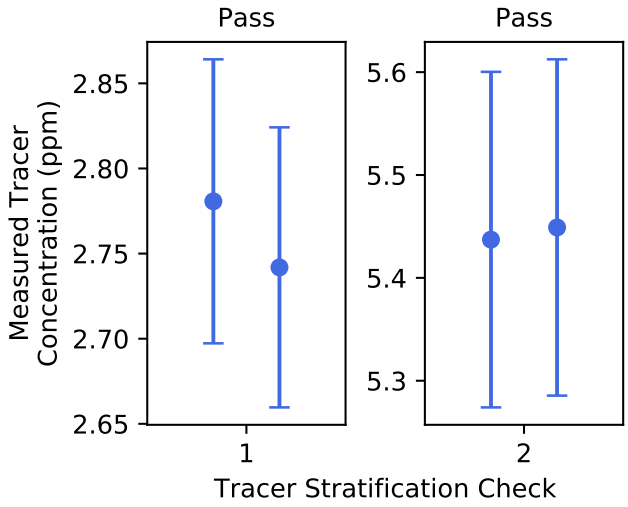


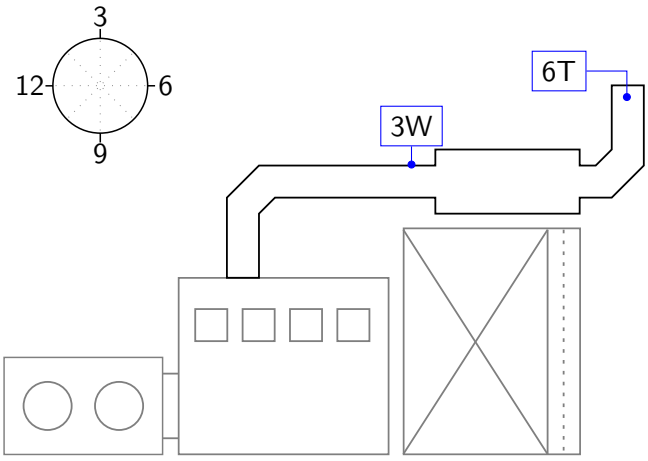


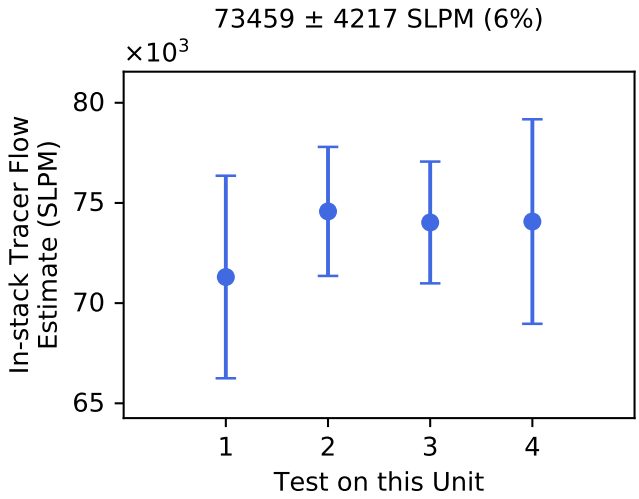
Facility	1945
Unit	1
Make	Caterpillar
Model	G3606
Type	4SLB
Rating (hp)	1775
Load	0.72

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	No	6T	Multi	6clock	8	0.198±0.013	2.8±0.1	2166±100	71304±5055	6.1±0.5
2	3W	None	No	6T	Multi	6clock	8	0.405±0.013	5.4±0.2	2187±97	74578±3220	6.4±0.4
3	3W	None	No	6T	Multi	9clock	8	0.403±0.011	5.4±0.2	2193±98	74026±3039	6.4±0.4
4	3W	None	No	6T	Multi	9clock	8	0.203±0.013	2.7±0.1	2162±97	74073±5104	6.3±0.5



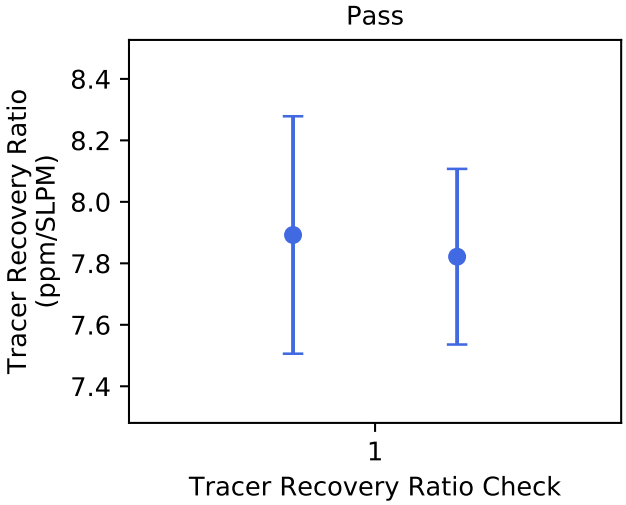


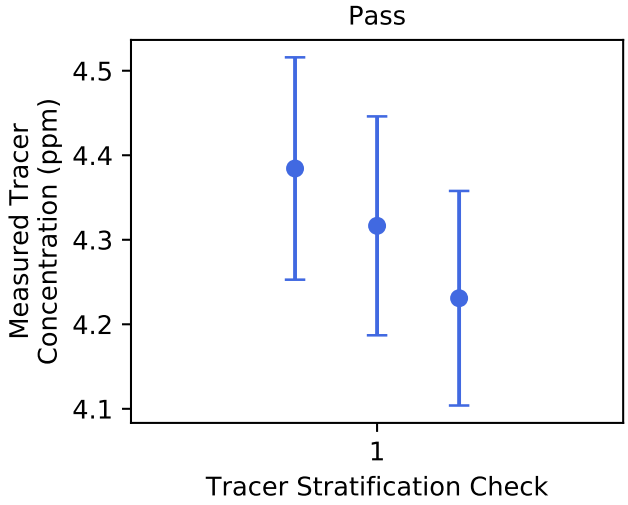


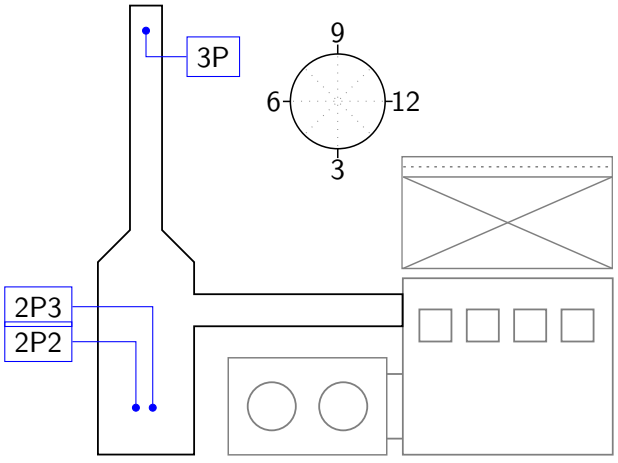


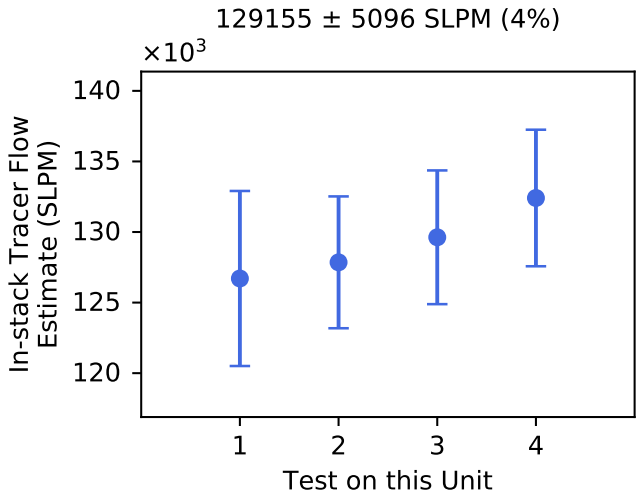
Facility	1496
Unit	1
Make	Caterpillar
Model	G3606 TALE
Type	4SLB
Rating (hp)	1775
Load	0.98

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P3	Single	No	3P	Multi	6clock	20	0.280±0.011	2.2±0.1	1758±70	126707±6201	8.8±0.6
2	2P3	Single	No	3P	Multi	6clock	20	0.561±0.012	4.4±0.1	1770±70	127852±4670	8.9±0.5
3	2P3	Single	No	3P	Multi	9clock	20	0.560±0.012	4.3±0.1	1794±71	129626±4737	9.2±0.5
4	2P2	Single	No	3P	Multi	9clock	20	0.560±0.012	4.2±0.1	1785±54	132411±4838	9.3±0.4



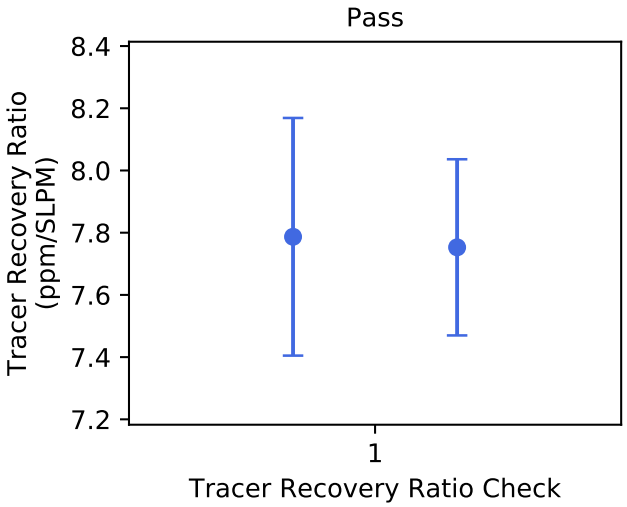


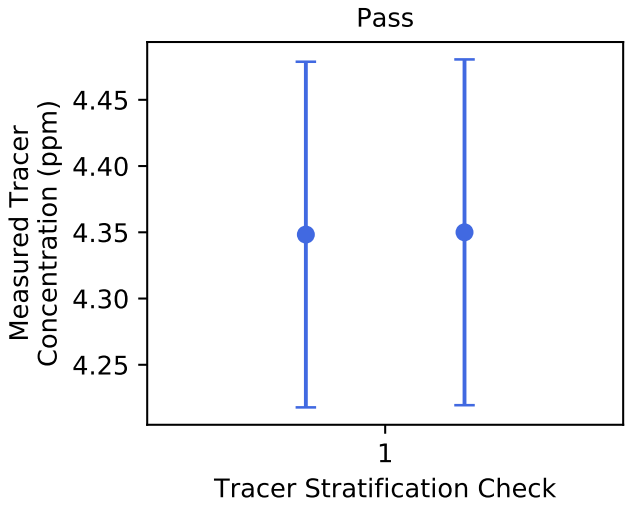


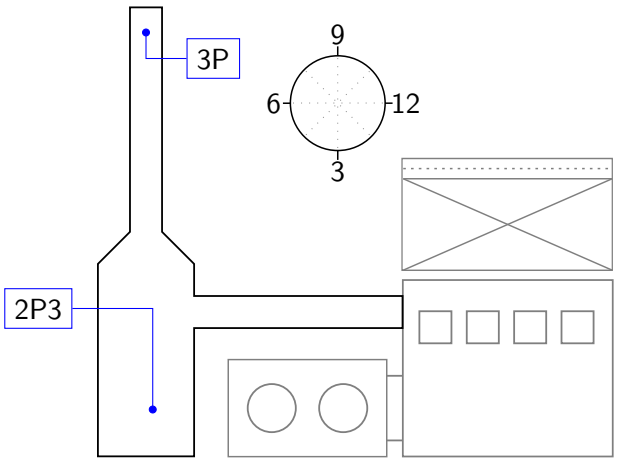


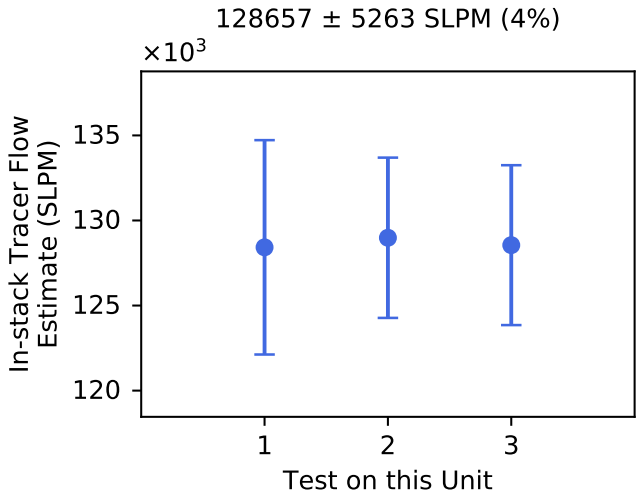
Facility	1496
Unit	2
Make	Caterpillar
Model	G3606 TALE
Type	4SLB
Rating (hp)	1775
Load	0.96

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P3	Single	No	3P	Multi	6clock	20	0.279±0.011	2.2±0.1	1869±56	128422±6300	9.5±0.5
2	2P3	Single	No	3P	Multi	6clock	20	0.561±0.012	4.3±0.1	1860±56	128984±4711	9.5±0.4
3	2P3	Single	No	3P	Multi	9clock	20	0.559±0.012	4.3±0.1	1874±56	128550±4699	9.5±0.4



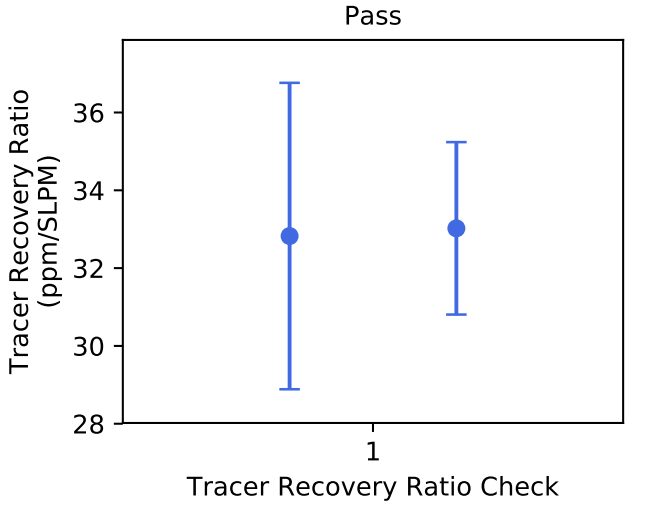


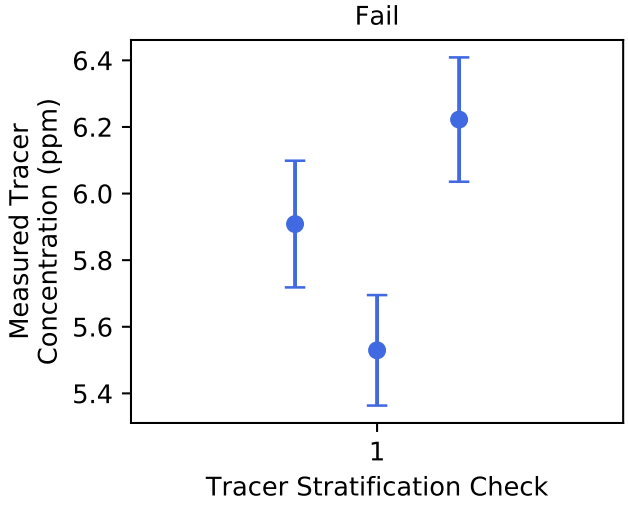


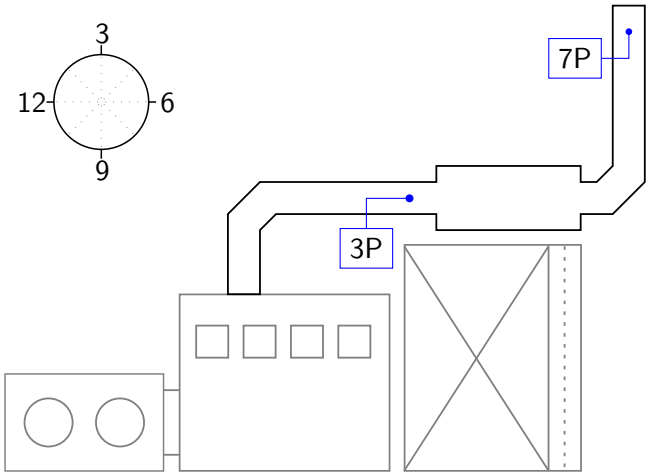


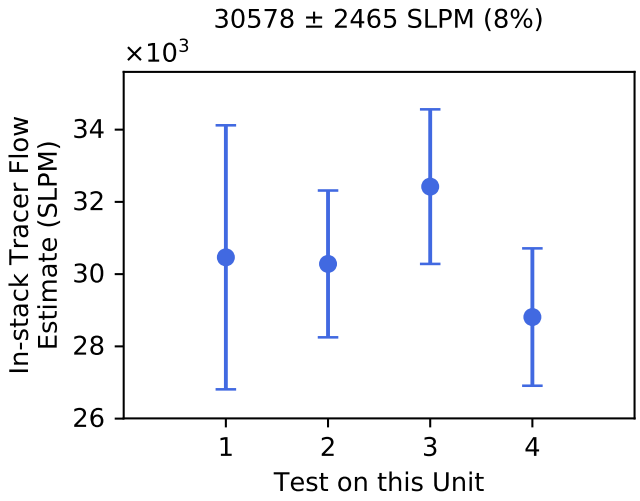
Facility 1120
Unit 1
Make Waukesha
Model L5794GSI
Type 4SRB
Rating (hp) 1350
Load 0.65

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3P	Single	No	7P	Multi	6clock	8	0.090±0.010	2.9±0.1	109±4	30465±3655	0.1±0.0
2	3P	Single	No	7P	Multi	6clock	8	0.179±0.011	5.9±0.2	109±4	30283±2032	0.1±0.0
3	3P	Single	No	7P	Multi	3clock	8	0.179±0.011	5.5±0.2	108±4	32422±2140	0.1±0.0
4	3P	Single	No	7P	Multi	9clock	8	0.179±0.011	6.2±0.2	108±3	28812±1901	0.1±0.0



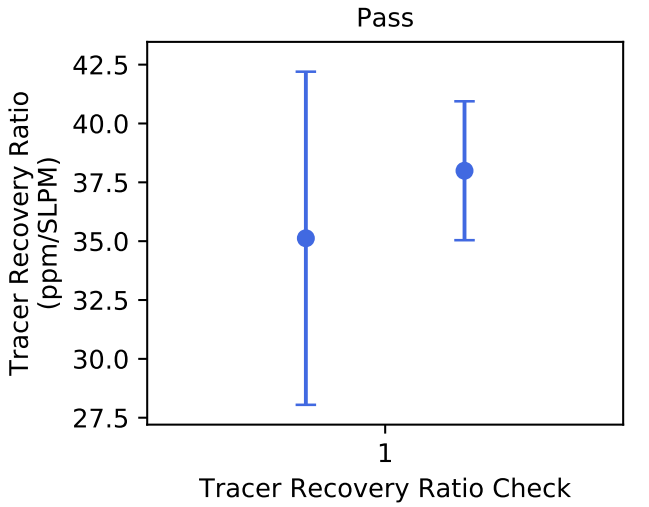


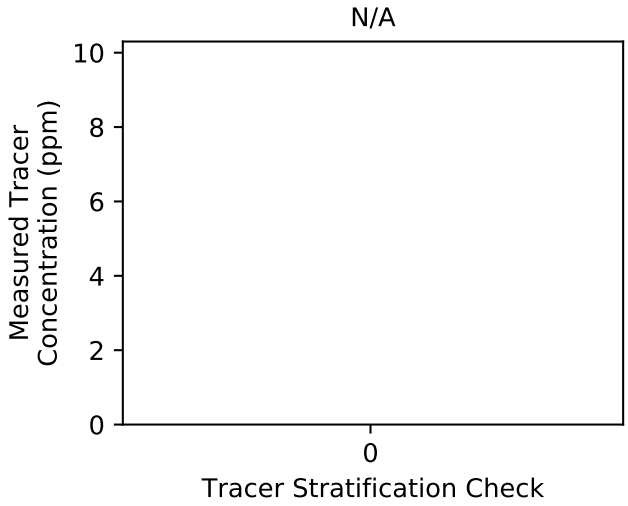


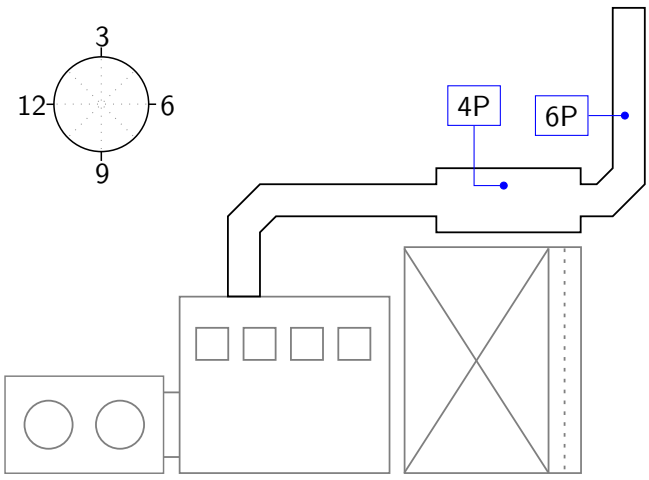


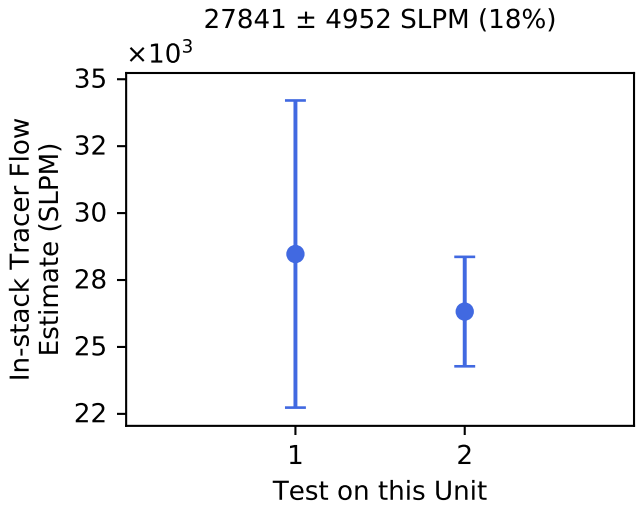
Facility	704
Unit	1
Make	Waukesha
Model	L7044GSI
Type	4SRB
Rating (hp)	1680
Load	0.64

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4P	Single	No	6P	Multi	6clock	8	0.089±0.010	3.1±0.5	111±24	28471±5736	0.1±0.0
2	4P	Single	No	6P	Multi	6clock	8	0.146±0.010	5.5±0.2	126±17	26321±2044	0.1±0.0



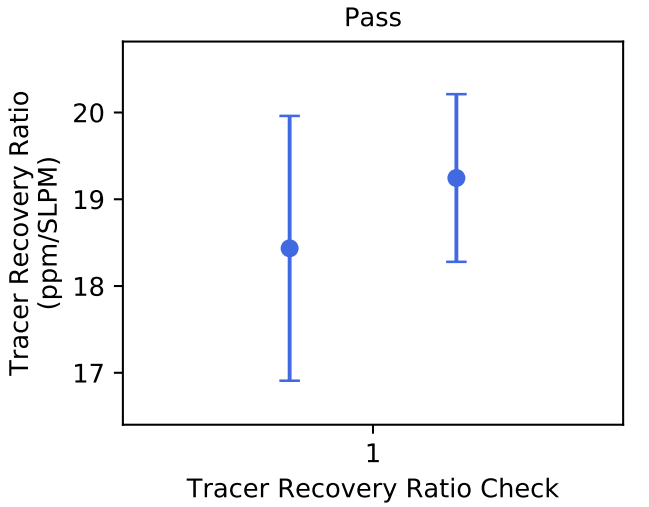


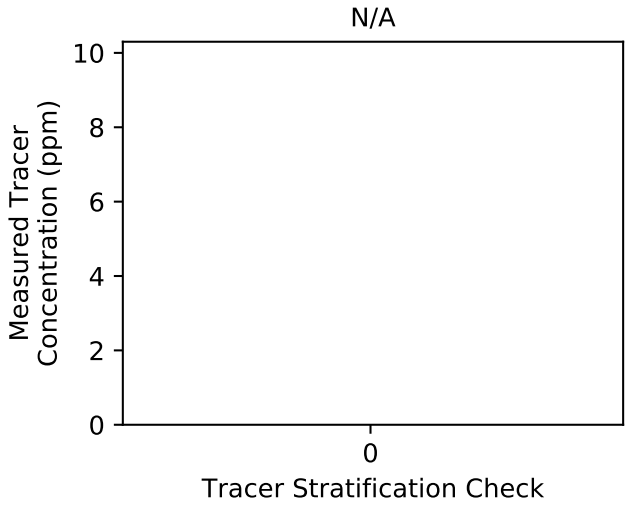


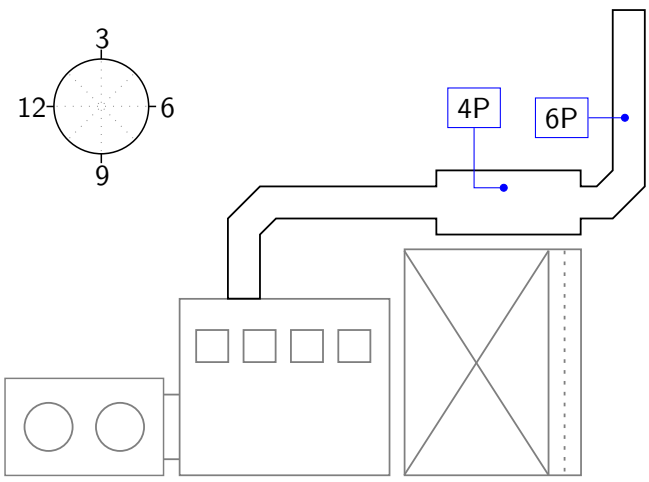


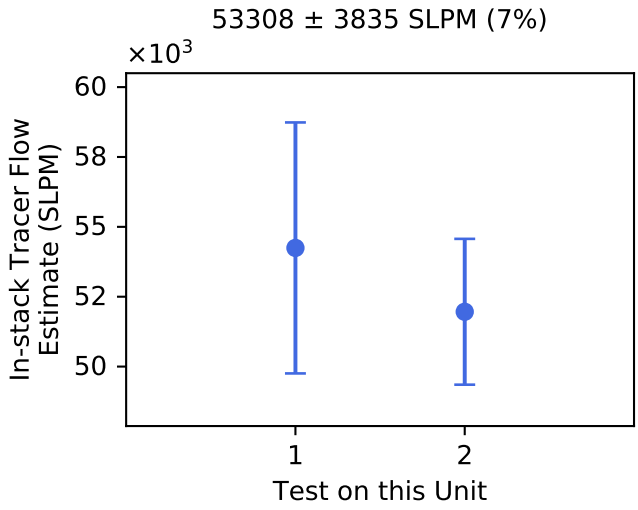
Facility	788
Unit	1
Make	Waukesha
Model	L5794GSI
Type	4SRB
Rating (hp)	1380
Load	0.81

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4P	Single	No	6P	Multi	6clock	8	0.135±0.010	2.5±0.1	128±23	54246±4491	0.3±0.1
2	4P	Single	No	6P	Multi	6clock	8	0.268±0.011	5.2±0.2	112±22	51961±2609	0.2±0.0



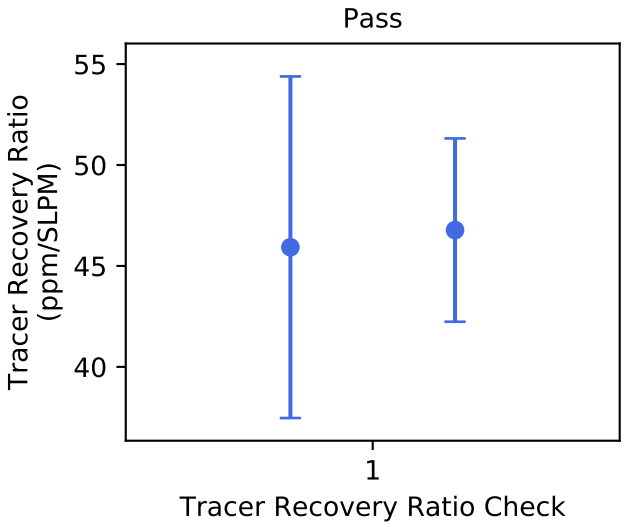


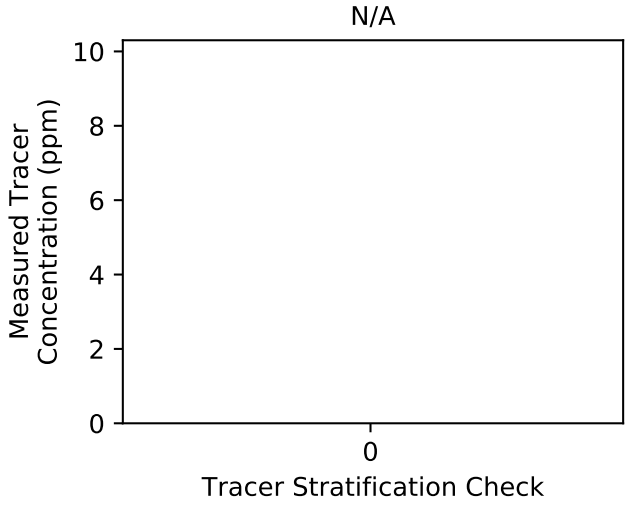


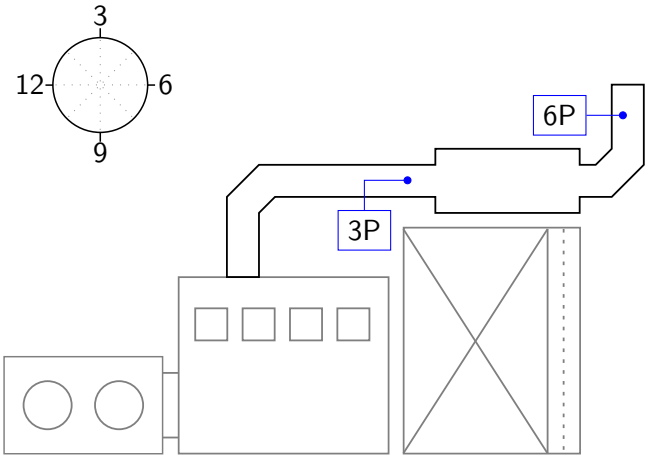


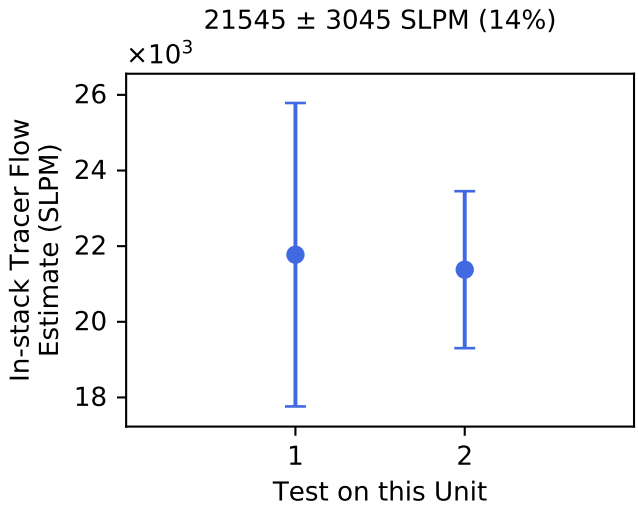
Facility 2291
Unit 1
Make Waukesha
Model L7042GSI
Type 4SRB
Rating (hp) 1232
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3P	Single	No	6P	Multi	6clock	8	0.056±0.010	2.6±0.1	536±16	21774±4012	0.5±0.1
2	3P	Single	No	6P	Multi	6clock	8	0.112±0.010	5.2±0.2	531±16	21378±2075	0.4±0.0



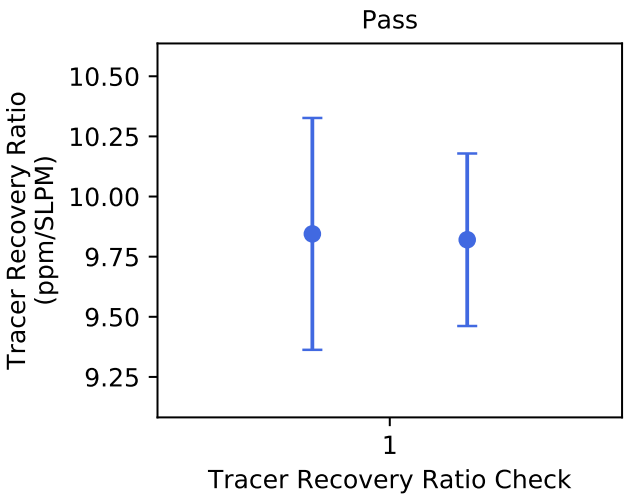


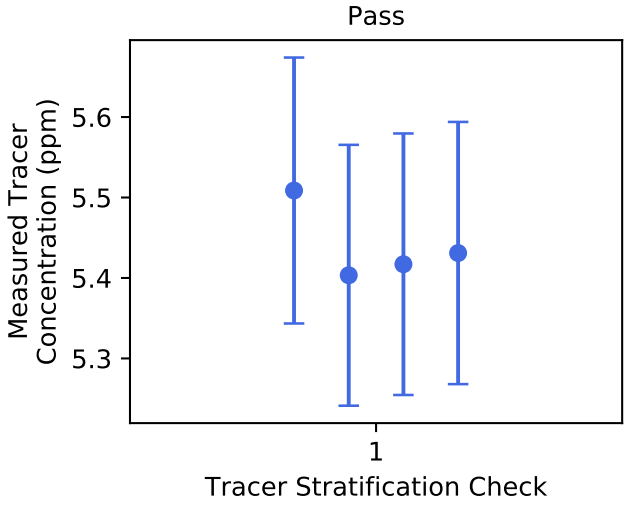


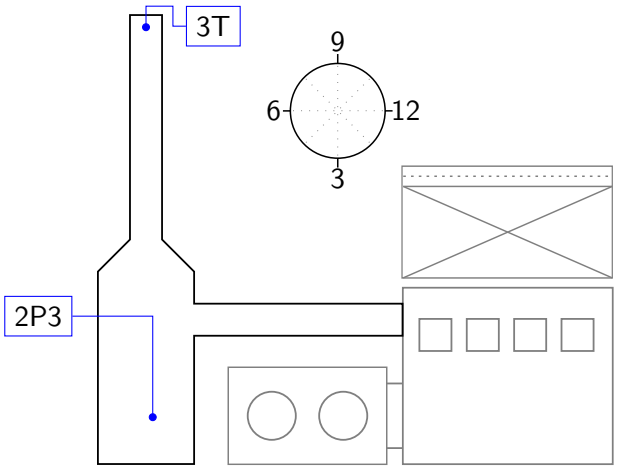


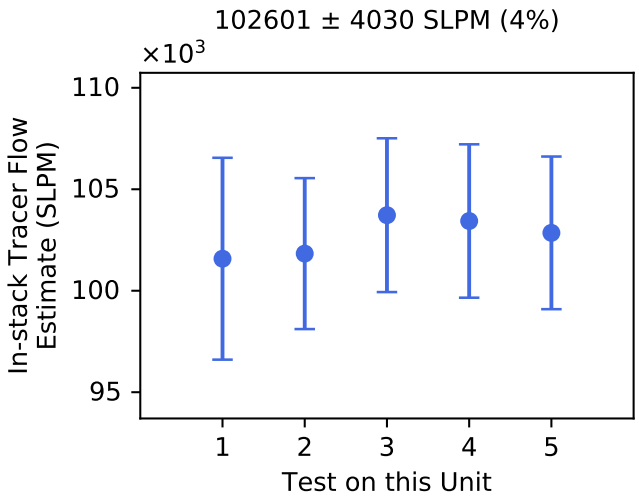
Facility	2833
Unit	1
Make	Caterpillar
Model	G3606 TALE
Type	4SLB
Rating (hp)	1775
Load	0.89

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P3	Single	No	3T	Multi	6clock	20	0.280±0.011	2.8±0.1	1895±57	101578±4973	7.6±0.4
2	2P3	Single	No	3T	Multi	6clock	20	0.561±0.012	5.5±0.2	1888±57	101830±3719	7.6±0.4
3	2P3	Single	No	3T	Multi	3clock	20	0.560±0.012	5.4±0.2	1907±57	103723±3789	7.8±0.4
4	2P3	Single	No	3T	Multi	130clock	20	0.560±0.012	5.4±0.2	1909±57	103436±3779	7.8±0.4
5	2P3	Single	No	3T	Multi	730clock	20	0.559±0.012	5.4±0.2	1914±57	102852±3761	7.8±0.4



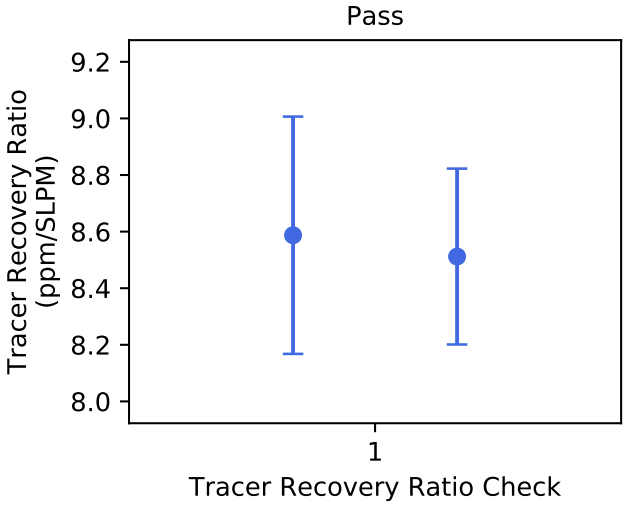


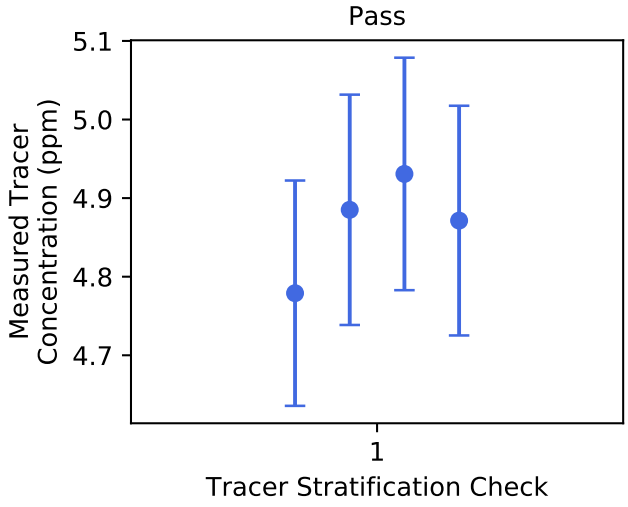


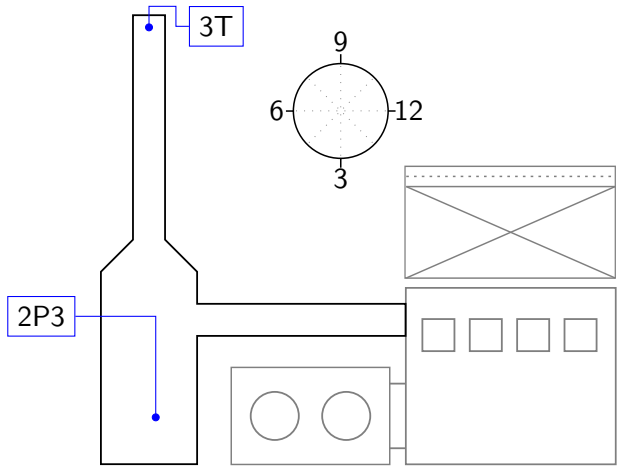


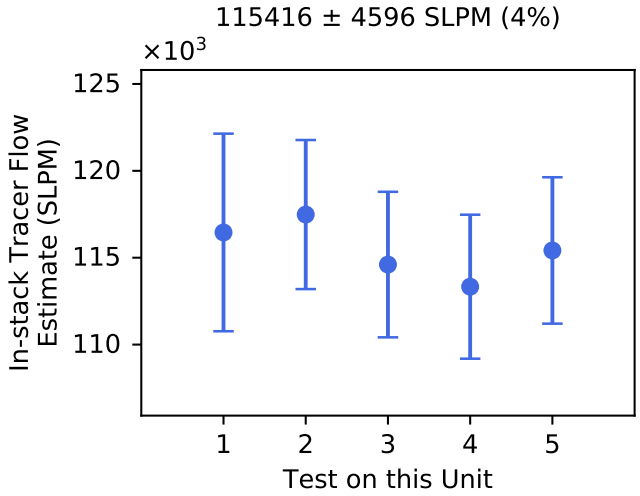
Facility	2833
Unit	2
Make	Caterpillar
Model	G3606 TALE
Type	4SLB
Rating (hp)	1775
Load	0.85

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P3	Single	No	3T	Multi	6clock	20	0.282±0.011	2.4±0.1	1726±52	116453±5686	7.9±0.5
2	2P3	Single	No	3T	Multi	6clock	20	0.561±0.012	4.8±0.1	1690±51	117483±4289	7.8±0.4
3	2P3	Single	No	3T	Multi	430clock	20	0.560±0.012	4.9±0.1	1705±51	114605±4188	7.7±0.4
4	2P3	Single	No	3T	Multi	3clock	20	0.559±0.012	4.9±0.1	1712±51	113331±4143	7.7±0.4
5	2P3	Single	No	3T	Multi	130clock	20	0.562±0.012	4.9±0.1	1704±51	115417±4212	7.8±0.4



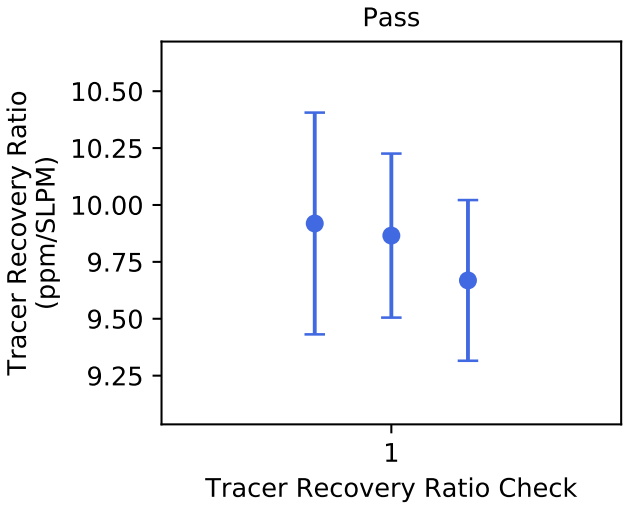


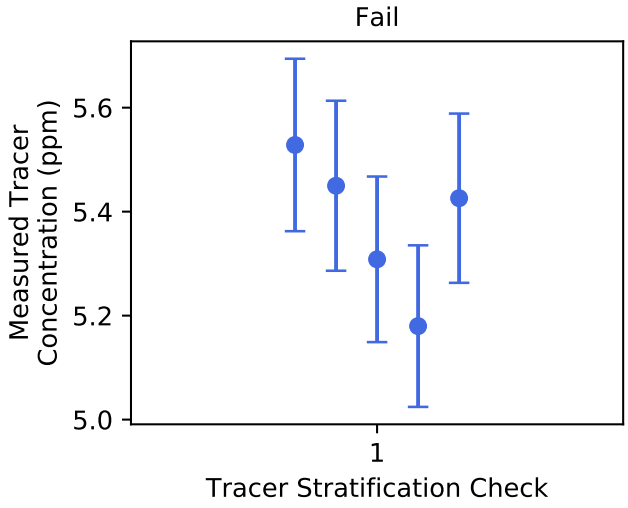


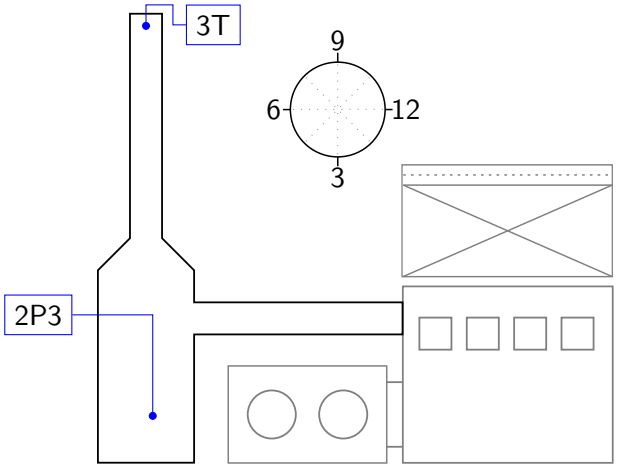


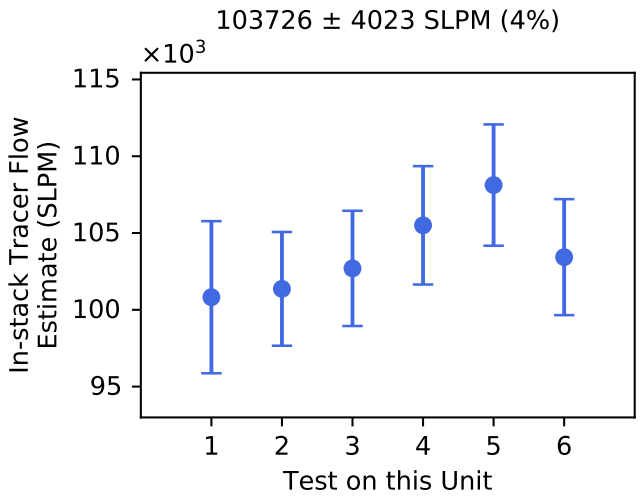
Facility	2833
Unit	3
Make	Caterpillar
Model	G3606 TALE
Type	4SLB
Rating (hp)	1775
Load	0.92

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P3	Single	No	3T	Multi	6clock	20	0.279±0.011	2.8±0.1	2259±68	100820±4953	9.0±0.5
2	2P3	Single	No	3T	Multi	6clock	20	0.560±0.012	5.5±0.2	2262±68	101364±3703	9.0±0.4
3	2P3	Single	No	3T	Multi	430clock	20	0.560±0.012	5.4±0.2	2271±68	102696±3753	9.2±0.4
4	2P3	Single	No	3T	Multi	3clock	20	0.560±0.012	5.3±0.2	2252±68	105501±3855	9.4±0.4
5	2P3	Single	No	3T	Multi	130clock	20	0.560±0.012	5.2±0.2	2230±67	108122±3950	9.5±0.4
6	2P3	Single	No	3T	Multi	6clock	20	0.561±0.012	5.4±0.2	2235±67	103429±3777	9.1±0.4



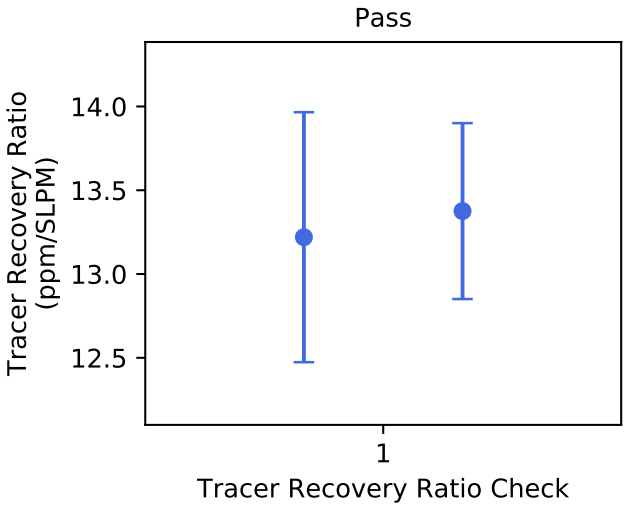


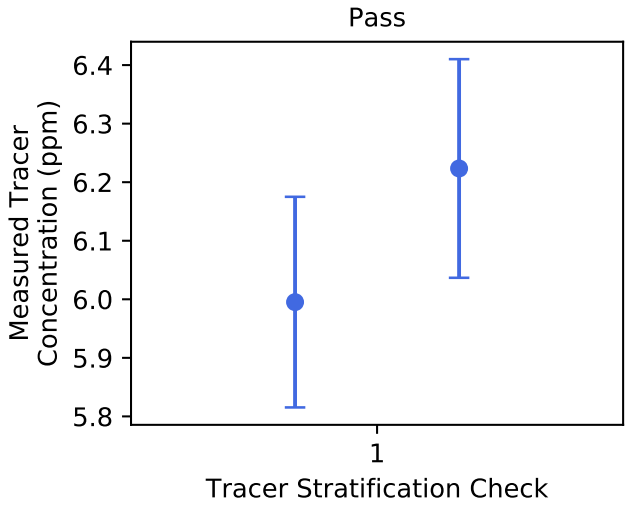


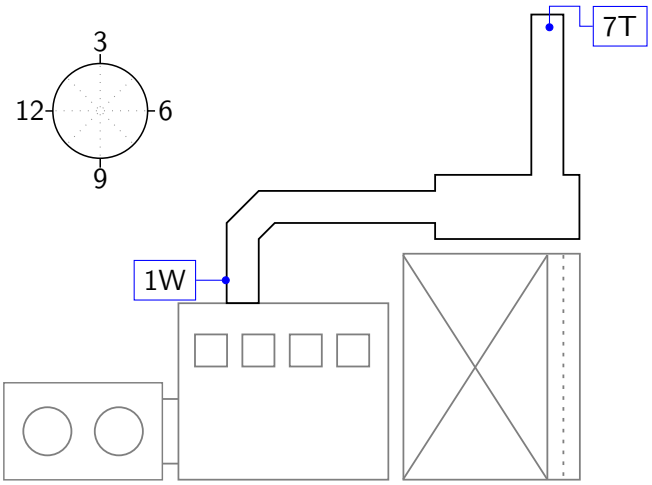


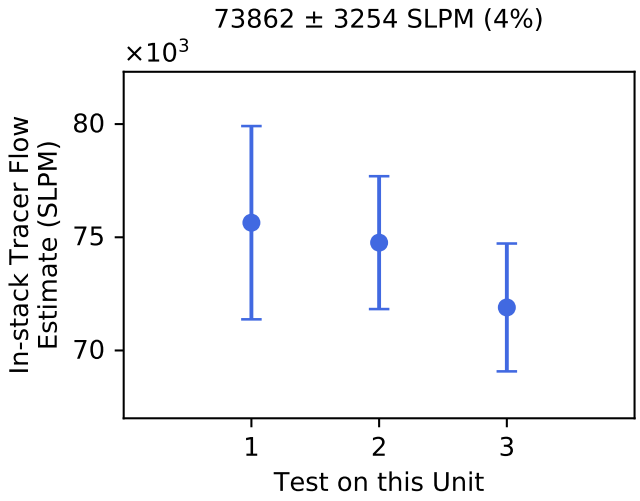
Facility	2268
Unit	1
Make	Caterpillar
Model	G3516 B
Type	4SLB
Rating (hp)	1380
Load	0.74

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	1W	None	No	7T	Multi	3clock	20	0.223±0.011	3.0±0.1	593±18	75644±4269	1.8±0.1
2	1W	None	No	7T	Multi	3clock	20	0.448±0.011	6.0±0.2	589±18	74763±2935	1.7±0.1
3	1W	None	No	7T	Multi	6clock	20	0.447±0.011	6.2±0.2	609±18	71900±2824	1.7±0.1



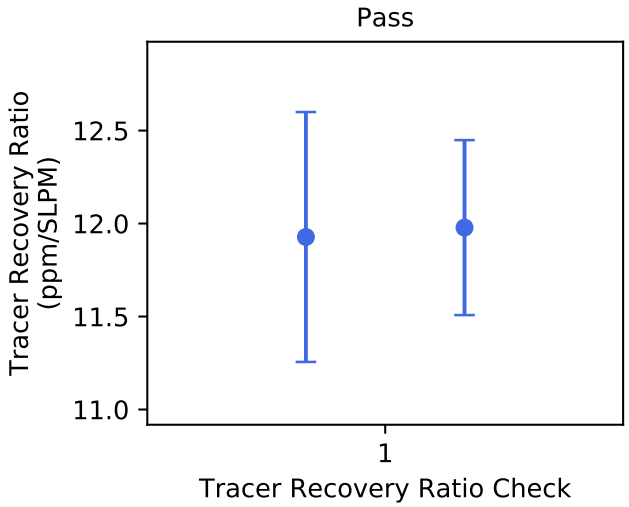


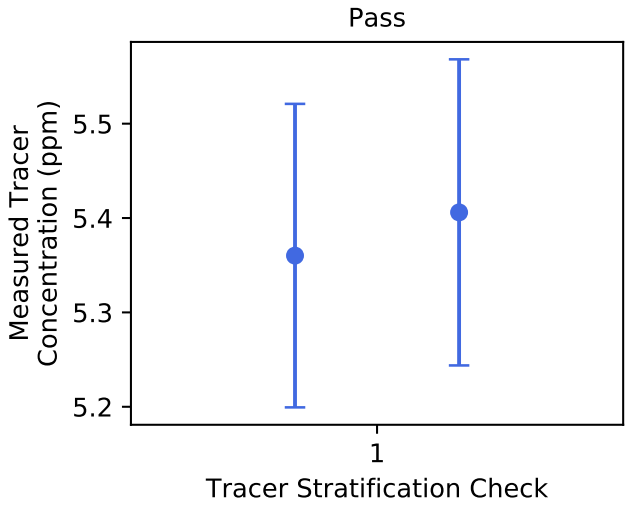


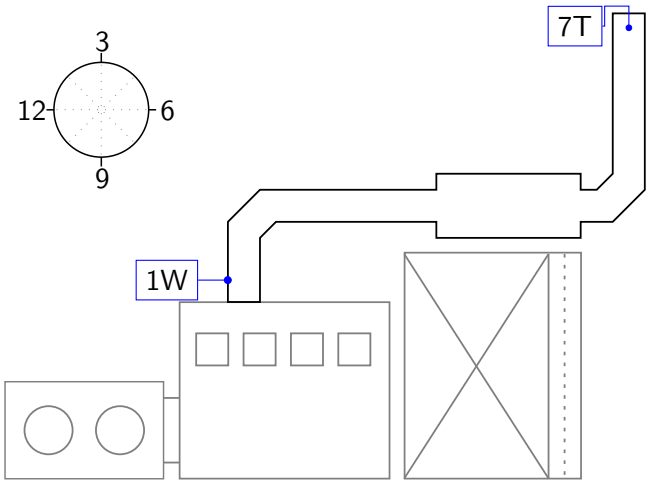


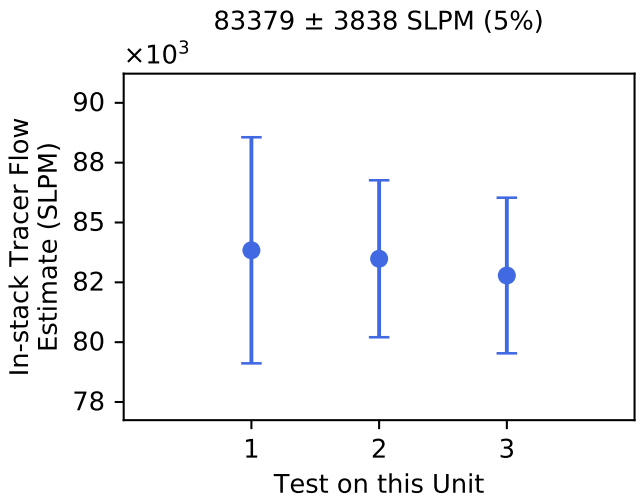
Facility	2268
Unit	2
Make	Caterpillar
Model	G3516 B
Type	4SLB
Rating (hp)	1380
Load	0.77

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	1W	None	No	7T	Multi	9clock	20	0.224±0.011	2.7±0.1	574±17	83838±4723	1.9±0.1
2	1W	None	No	7T	Multi	9clock	20	0.447±0.011	5.4±0.2	576±17	83485±3279	1.9±0.1
3	1W	None	No	7T	Multi	6clock	20	0.448±0.011	5.4±0.2	582±17	82785±3251	1.9±0.1



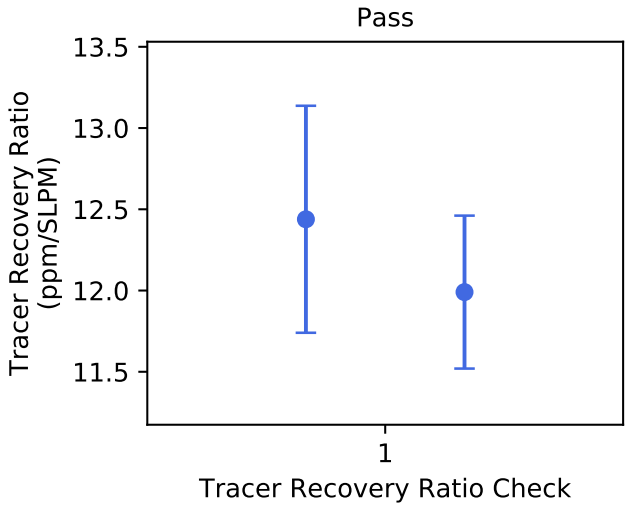


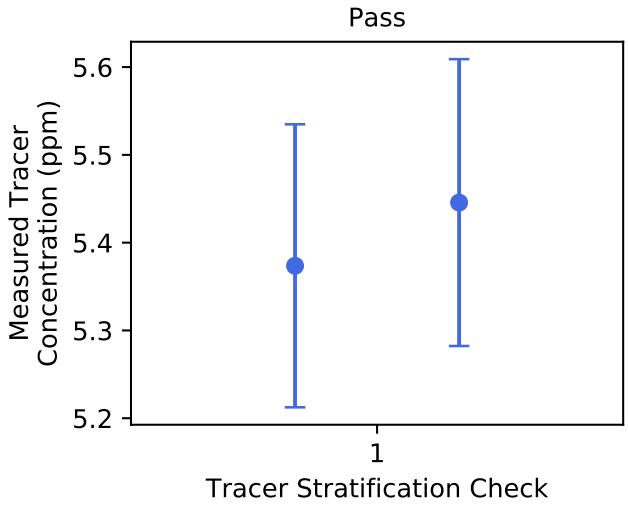


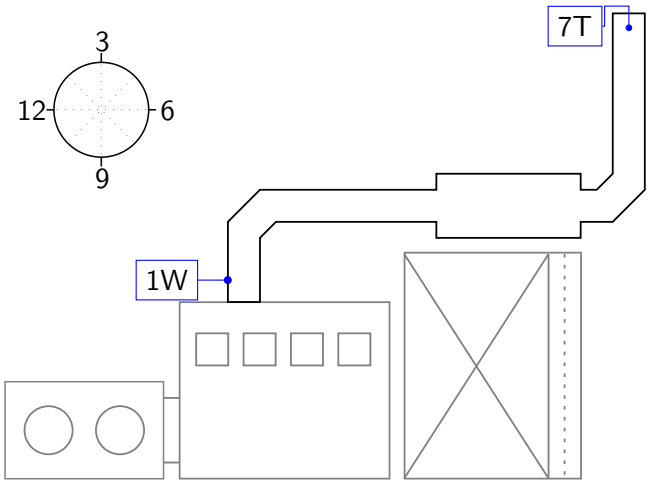


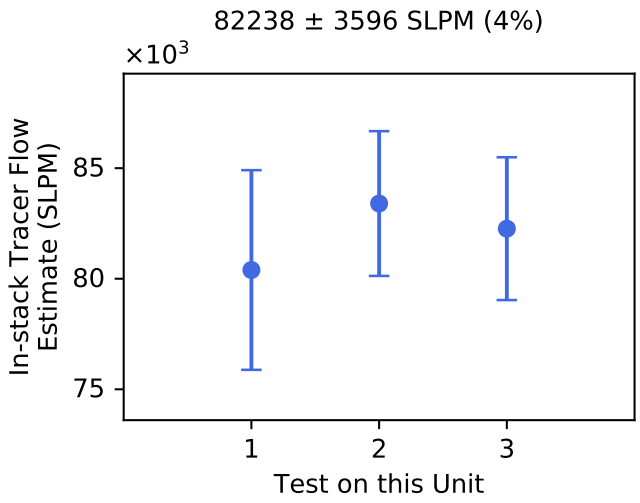
Facility	2268
Unit	3
Make	Caterpillar
Model	G3516 B
Type	4SLB
Rating (hp)	1380
Load	0.92

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	1W	None	No	7T	Multi	12clock	20	0.225±0.011	2.8±0.1	623±19	80395±4515	2.0±0.1
2	1W	None	No	7T	Multi	12clock	20	0.448±0.011	5.4±0.2	602±18	83400±3274	2.0±0.1
3	1W	None	No	7T	Multi	6clock	20	0.448±0.011	5.4±0.2	602±18	82264±3230	2.0±0.1



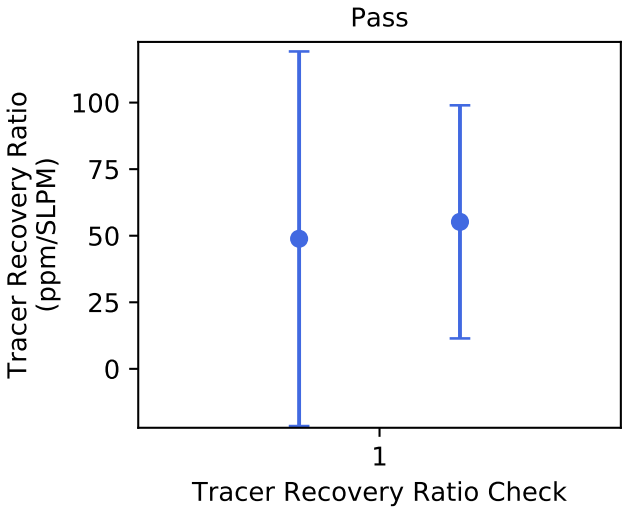


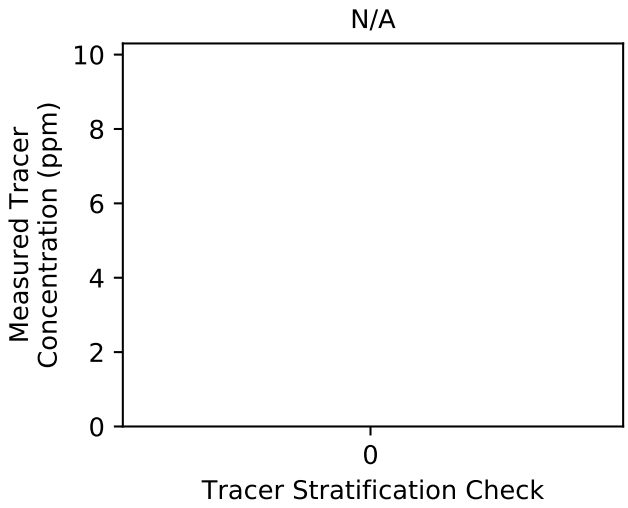


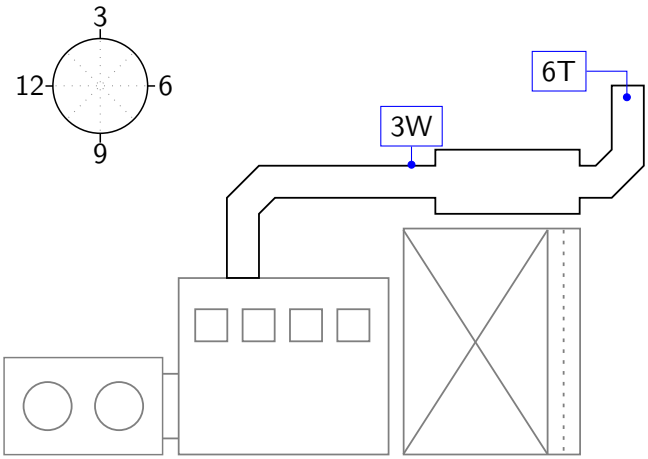


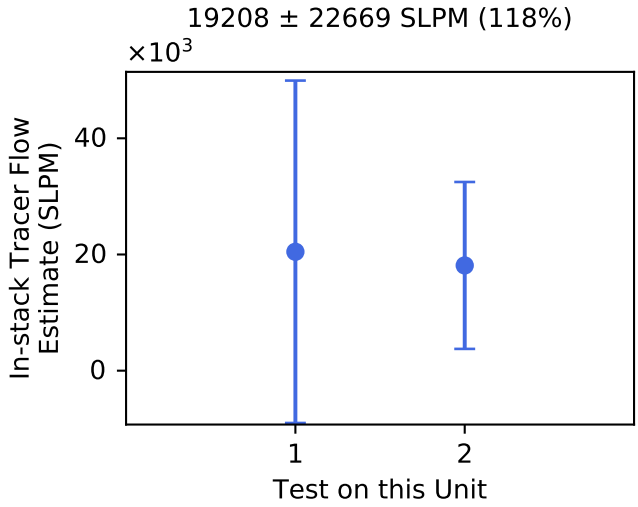
Facility 247
Unit 1
Make Superior
Model 8G825
Type 4SRB
Rating (hp) 667
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	No	6T	Single	6clock	8	0.049±0.070	2.4±0.1	140±4	20467±29468	0.1±0.2
2	3W	None	No	6T	Single	6clock	8	0.086±0.068	4.8±0.1	143±4	18115±14366	0.1±0.1



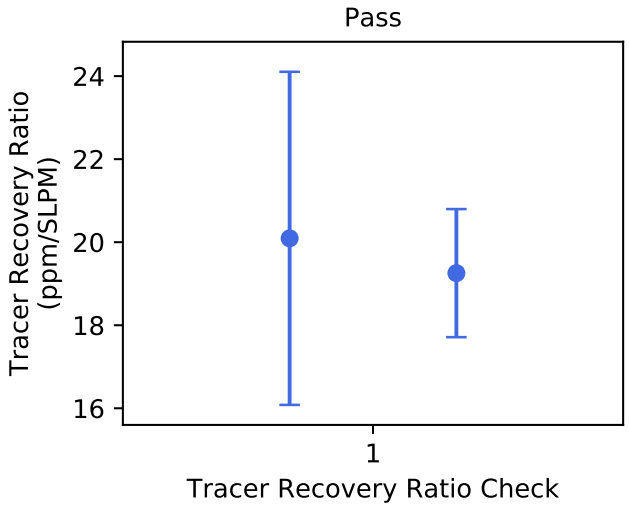


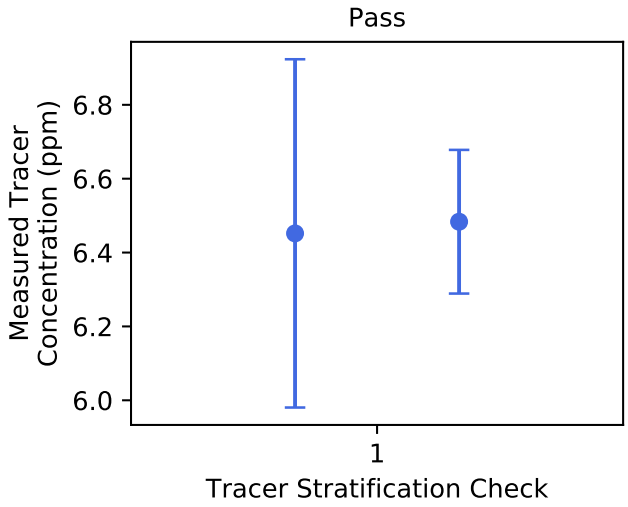


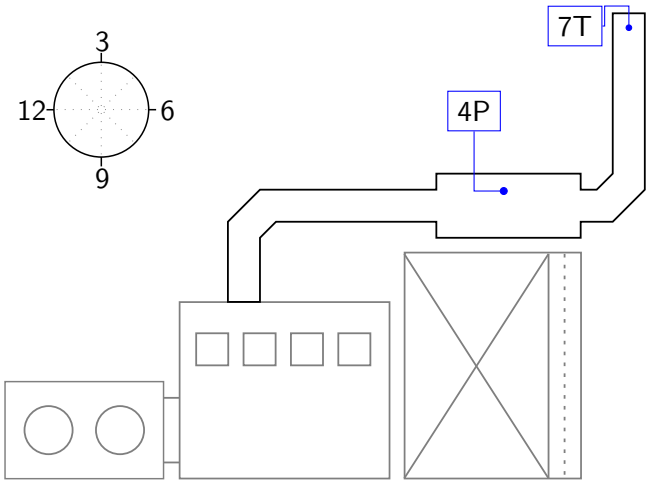


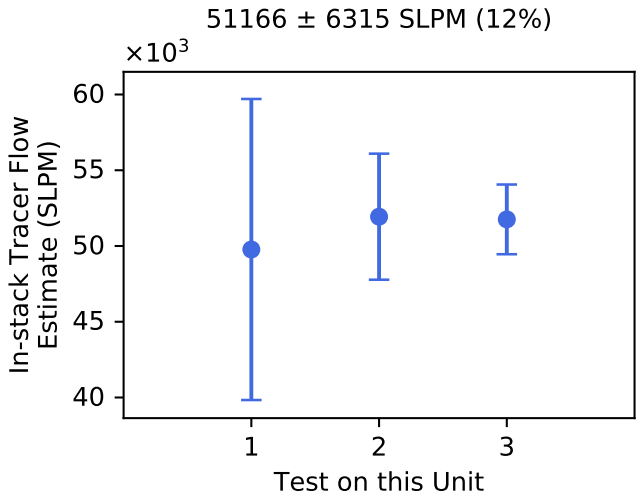
Facility 1292
Unit 1
Make Waukesha
Model L5794GSI ESM
Type 4SRB
Rating (hp) 1380
Load 0.92

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4P	Multi	No	7T	Multi	6clock	12	0.169±0.017	3.4±0.6	5±6	49769±9936	0.0±0.0
2	4P	Multi	No	7T	Multi	6clock	12	0.335±0.011	6.5±0.5	6±5	51935±4161	0.0±0.0
3	4P	Multi	No	7T	Multi	9clock	12	0.336±0.011	6.5±0.2	5±5	51757±2301	0.0±0.0



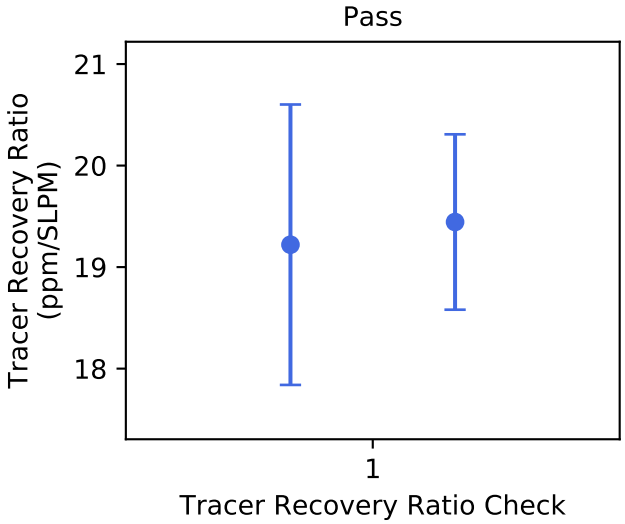


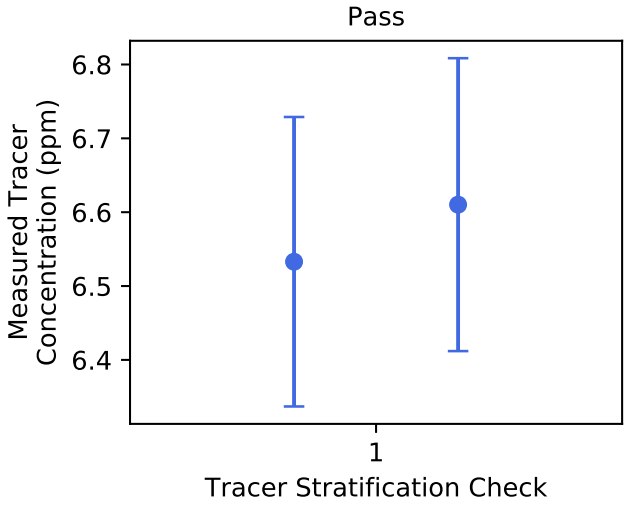


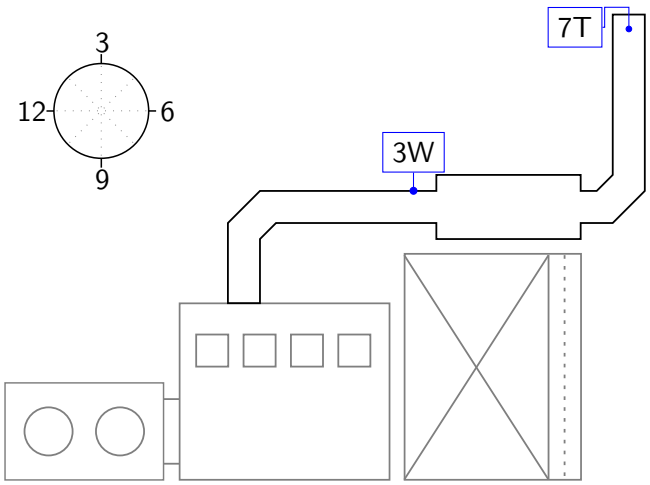


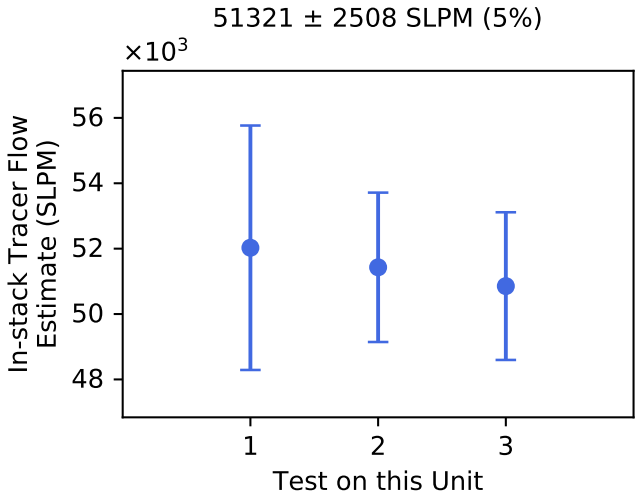
Facility	1292
Unit	2
Make	Waukesha
Model	L5794GSI ESM
Type	4SRB
Rating (hp)	1380
Load	0.90

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	Yes	7T	Multi	6clock	12	0.168±0.011	3.2±0.1	63±12	52028±3739	0.1±0.0
2	3W	None	Yes	7T	Multi	6clock	12	0.336±0.011	6.5±0.2	64±13	51429±2285	0.1±0.0
3	3W	None	Yes	7T	Multi	9clock	12	0.336±0.011	6.6±0.2	65±10	50854±2259	0.1±0.0



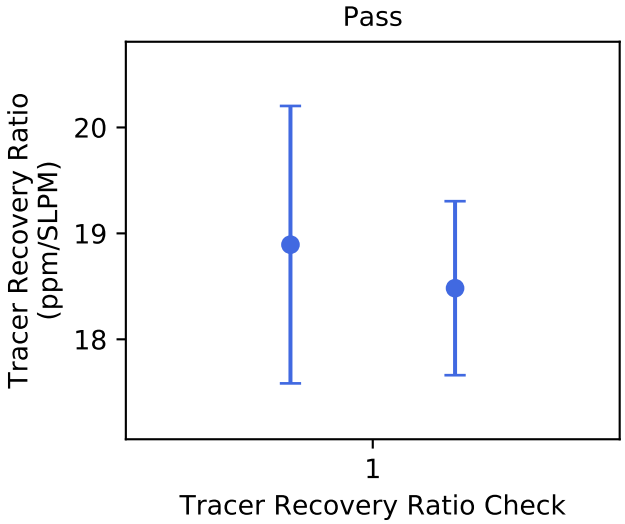


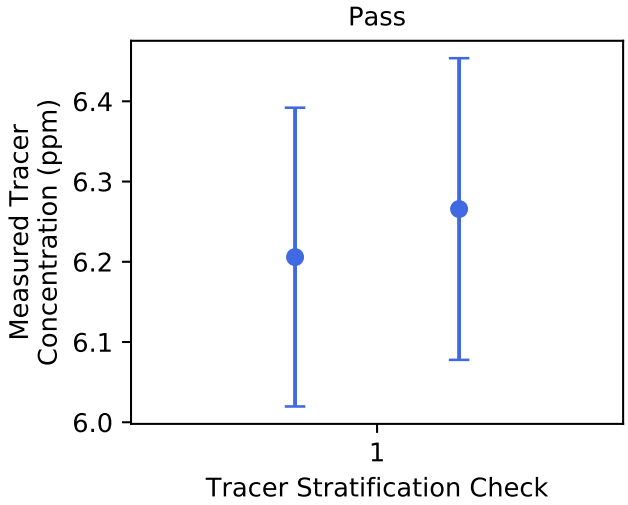


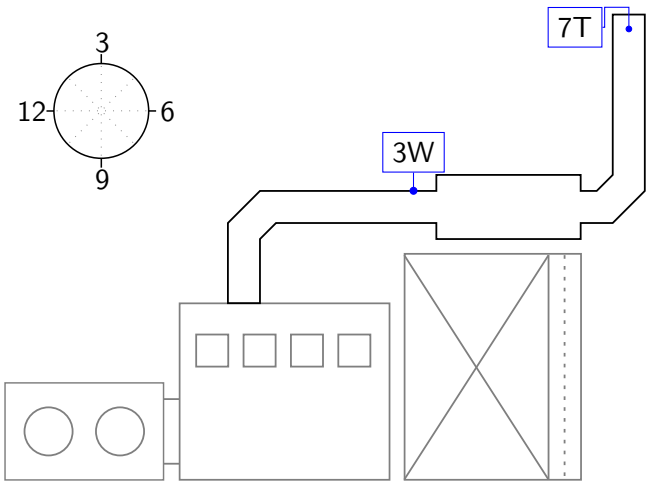


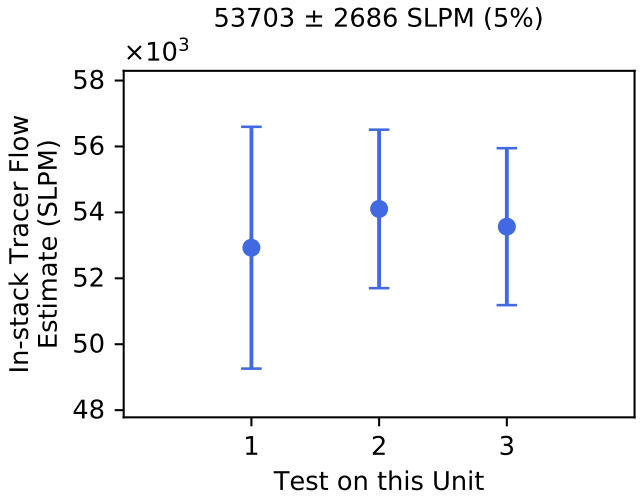
Facility	1292
Unit	3
Make	Waukesha
Model	L5794GSI ESM
Type	4SRB
Rating (hp)	1380
Load	0.94

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	No	7T	Multi	6clock	12	0.168±0.011	3.2±0.1	112±11	52928±3668	0.2±0.0
2	3W	None	No	7T	Multi	6clock	12	0.336±0.011	6.2±0.2	115±10	54105±2404	0.2±0.0
3	3W	None	No	7T	Multi	9clock	12	0.336±0.011	6.3±0.2	120±8	53567±2381	0.3±0.0



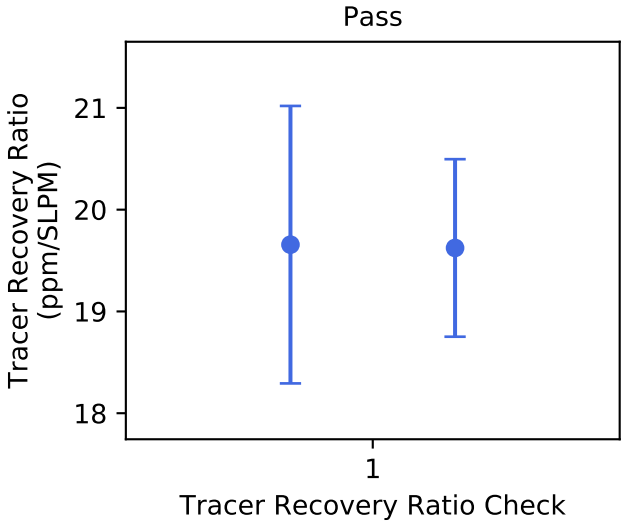


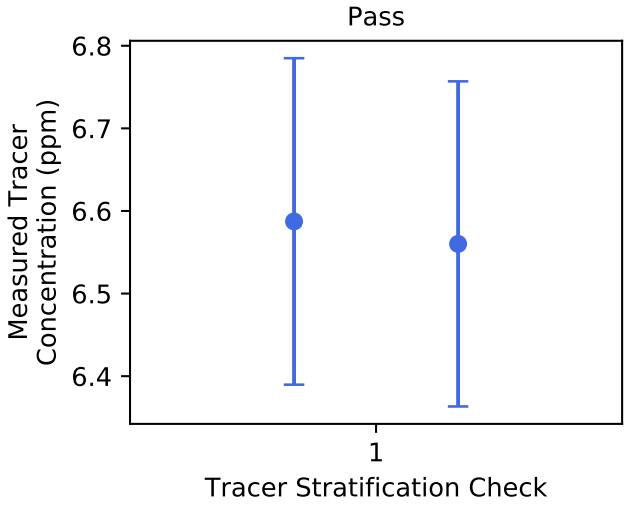


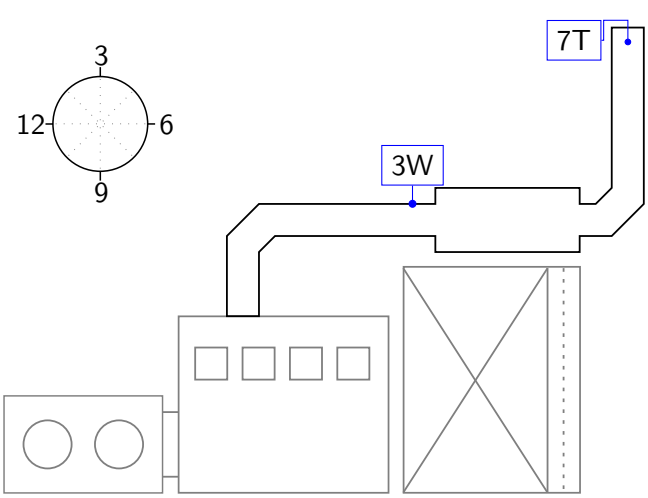


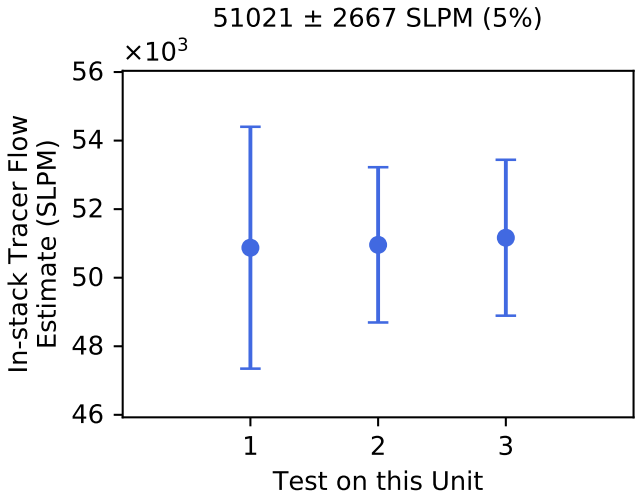
Facility	1292
Unit	4
Make	Waukesha
Model	L5794GSI ESM
Type	4SRB
Rating (hp)	1380
Load	0.92

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	No	7T	Multi	6clock	12	0.168±0.011	3.3±0.1	98±10	50875±3528	0.2±0.0
2	3W	None	No	7T	Multi	6clock	12	0.336±0.011	6.6±0.2	96±15	50959±2265	0.2±0.0
3	3W	None	No	7T	Multi	9clock	12	0.336±0.011	6.6±0.2	105±7	51166±2274	0.2±0.0



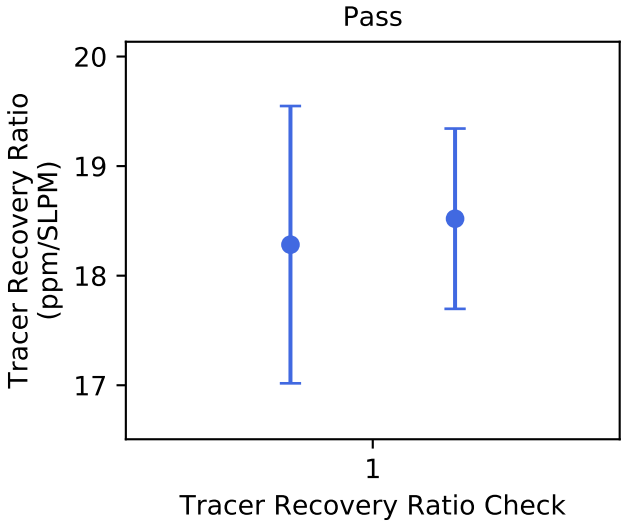


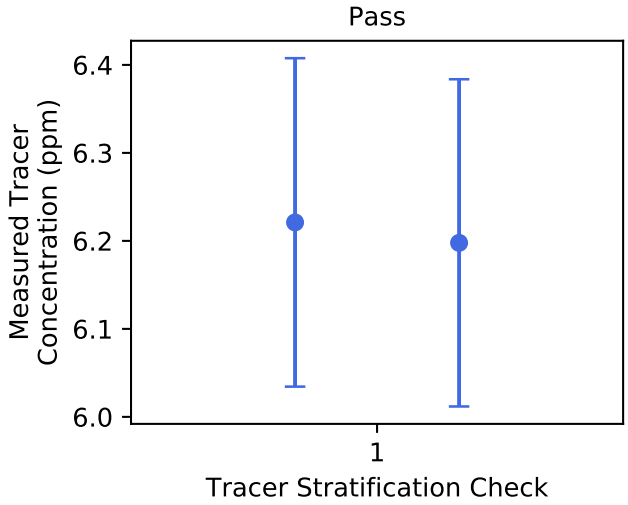


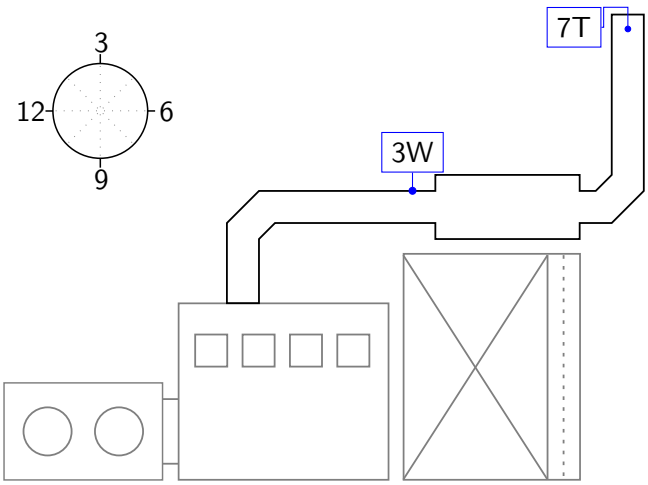


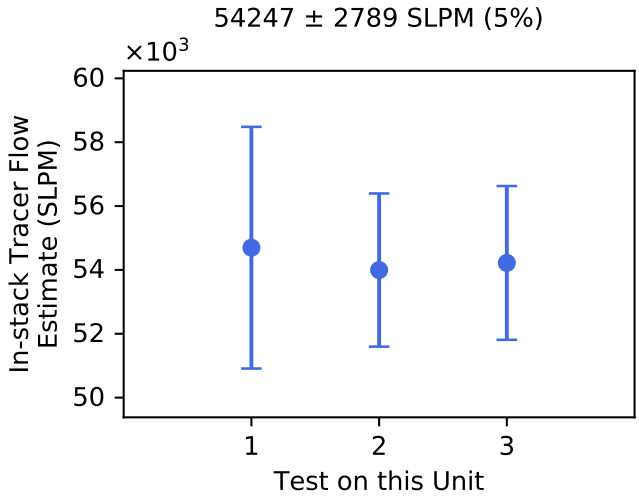
Facility	1292
Unit	5
Make	Waukesha
Model	L5794GSI ESM
Type	4SRB
Rating (hp)	1380
Load	0.92

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	No	7T	Multi	6clock	12	0.168±0.011	3.1±0.1	15±7	54696±3786	0.0±0.0
2	3W	None	No	7T	Multi	6clock	12	0.336±0.011	6.2±0.2	18±12	53996±2399	0.0±0.0
3	3W	None	No	7T	Multi	9clock	12	0.336±0.011	6.2±0.2	7±4	54219±2408	0.0±0.0



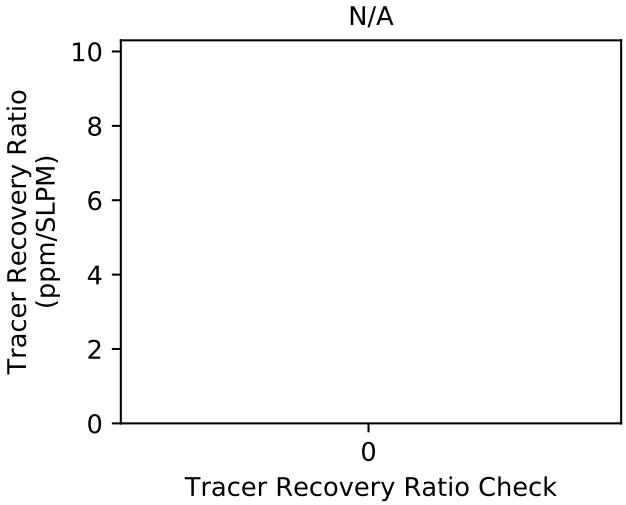


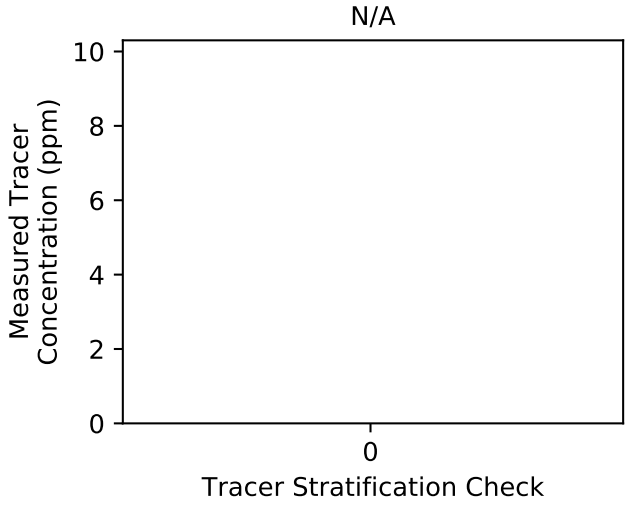


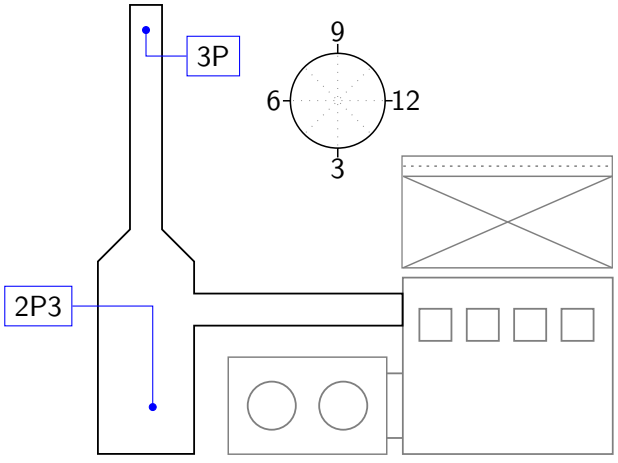


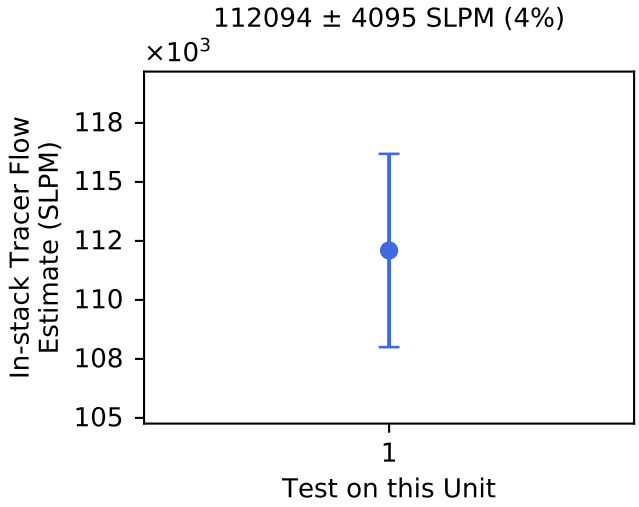
Facility 1618
Unit 1
Make Caterpillar
Model G3606 TALE
Type 4SLB
Rating (hp) 1775
Load 0.87

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P3	Single	No	3P	Multi	6clock	20	0.560±0.012	5.0±0.1	1624±49	112094±4095	7.2±0.3



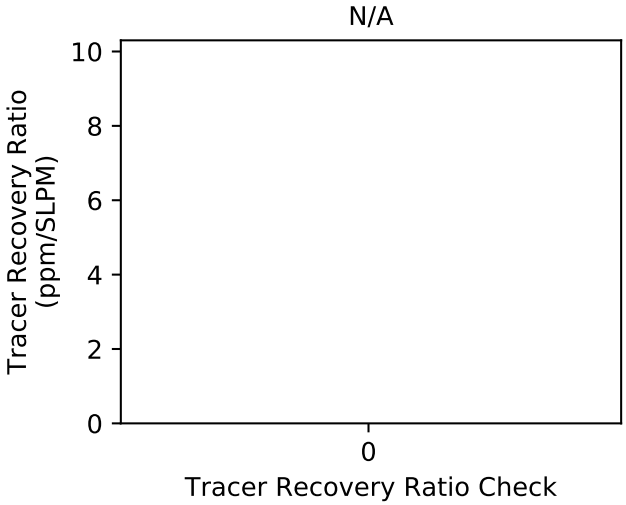


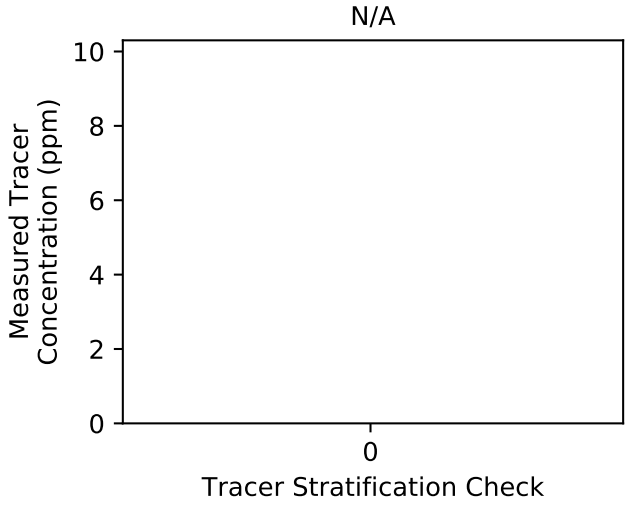


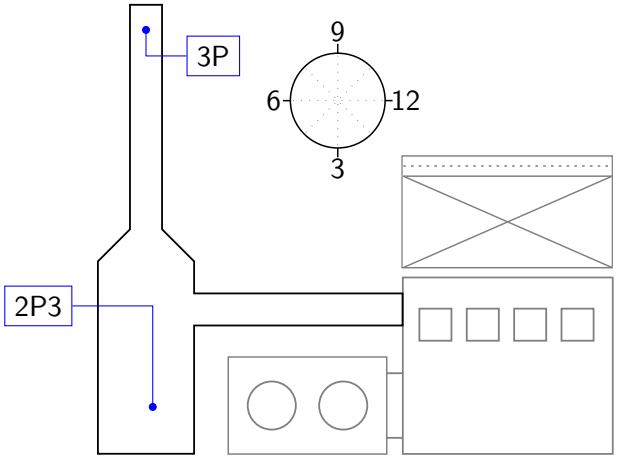


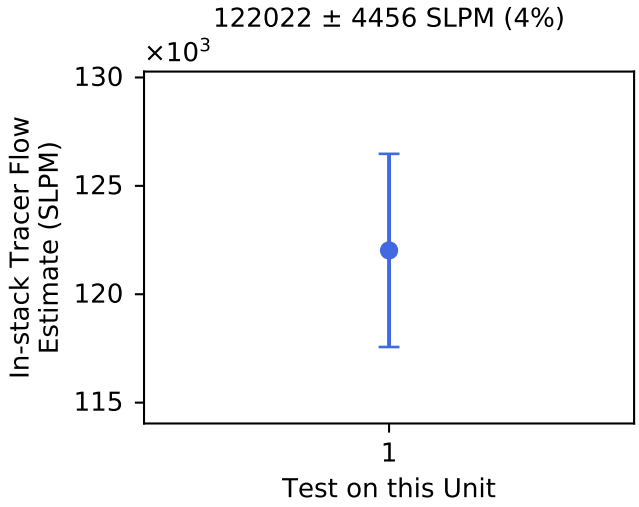
Facility 1618
Unit 2
Make Caterpillar
Model G3606 TALE
Type 4SLB
Rating (hp) 1775
Load 0.91

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P3	Single	No	3P	Multi	6clock	20	0.561±0.012	4.6±0.1	1662±50	122022±4456	8.0±0.4



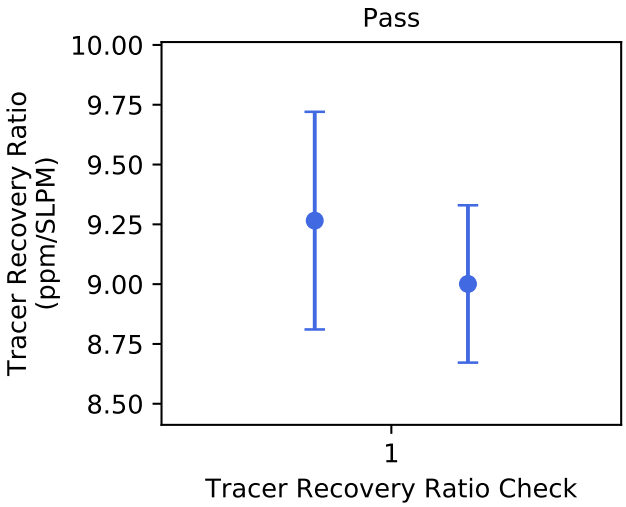


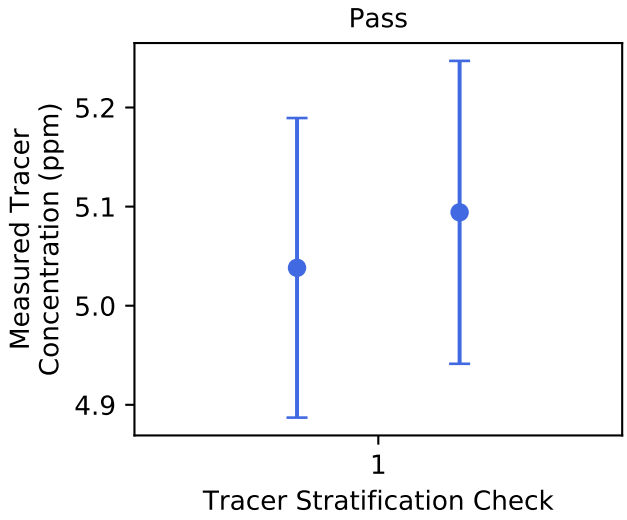


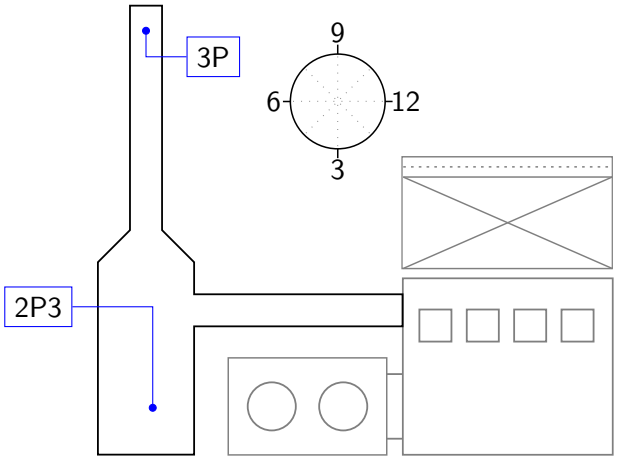


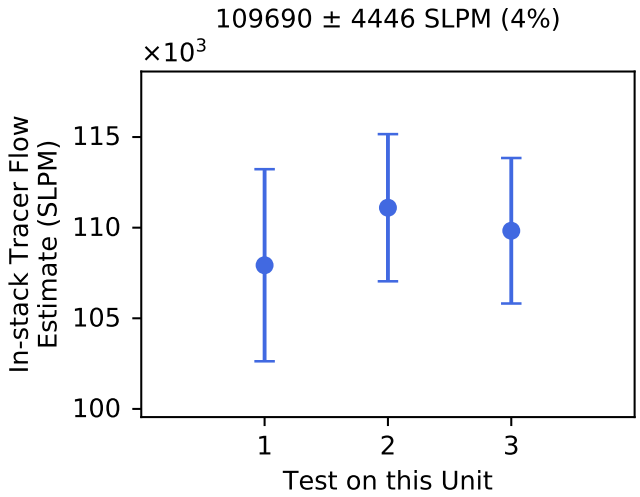
Facility 1618
Unit 3
Make Caterpillar
Model G3606 TALE
Type 4SLB
Rating (hp) 1775
Load 0.82

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P3	Single	No	3P	Multi	6clock	20	0.279±0.011	2.6±0.1	1778±53	107927±5299	7.6±0.4
2	2P3	Single	No	3P	Multi	6clock	20	0.560±0.012	5.0±0.2	1740±52	111101±4060	7.6±0.4
3	2P3	Single	No	3P	Multi	9clock	20	0.559±0.012	5.1±0.2	1731±52	109830±4014	7.5±0.4



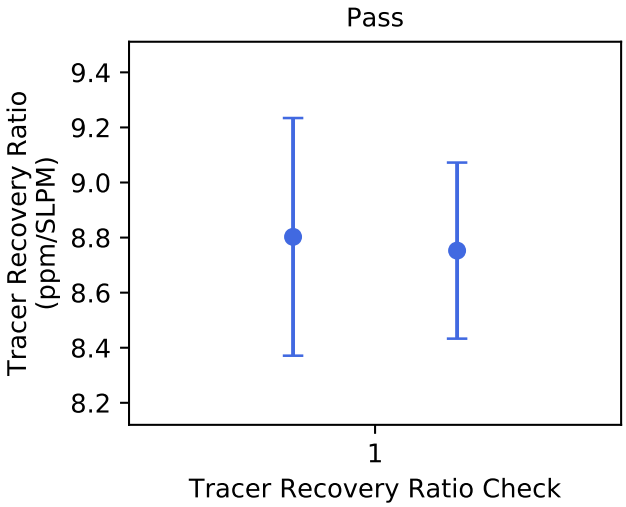


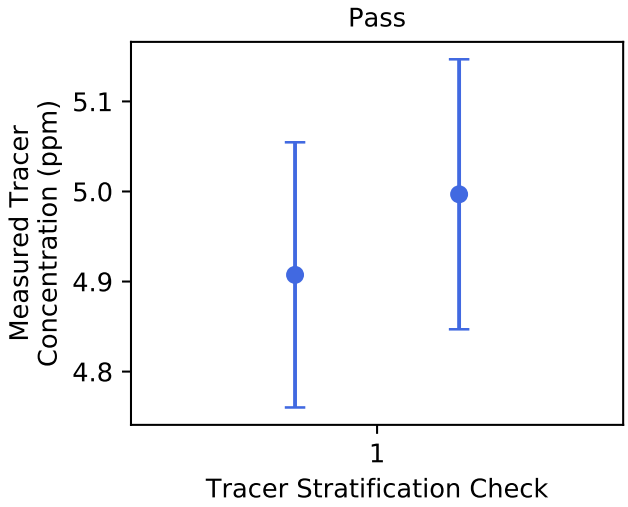


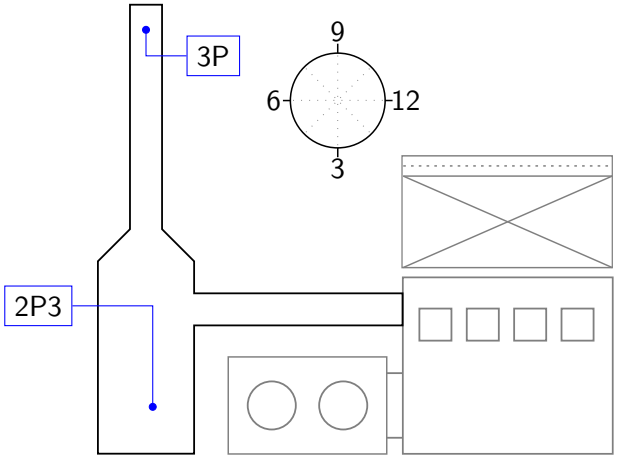


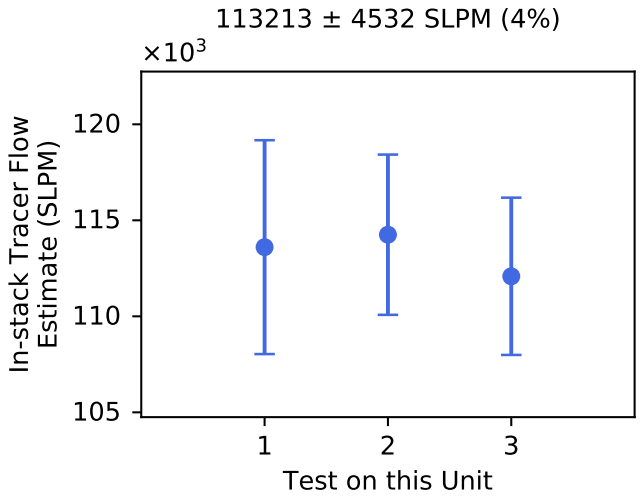
Facility 1618
Unit 4
Make Caterpillar
Model G3606 TALE
Type 4SLB
Rating (hp) 1775
Load 0.86

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P3	Single	No	3P	Multi	6clock	20	0.280±0.011	2.5±0.1	2025±61	113603±5569	9.1±0.5
2	2P3	Single	No	3P	Multi	6clock	20	0.561±0.012	4.9±0.1	2014±60	114251±4173	9.1±0.4
3	2P3	Single	No	3P	Multi	9clock	20	0.560±0.012	5.0±0.1	2019±61	112085±4095	8.9±0.4



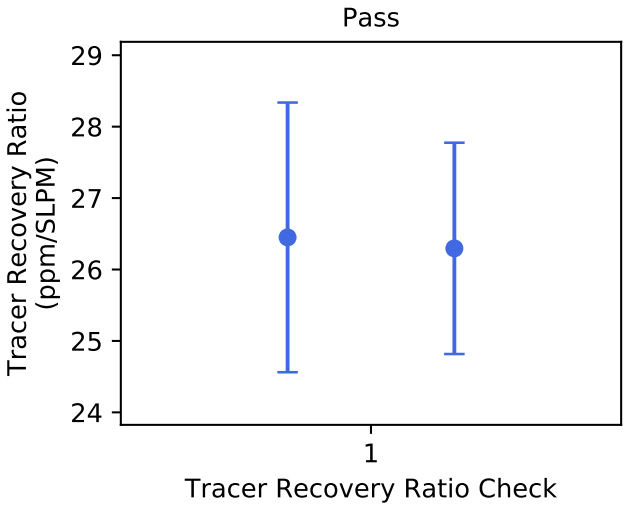


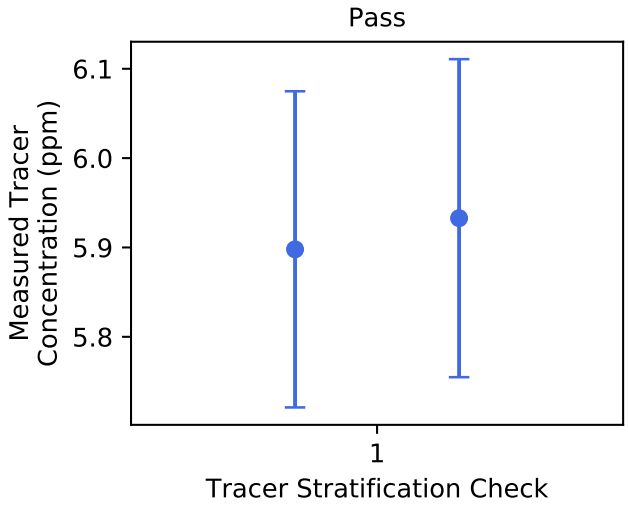


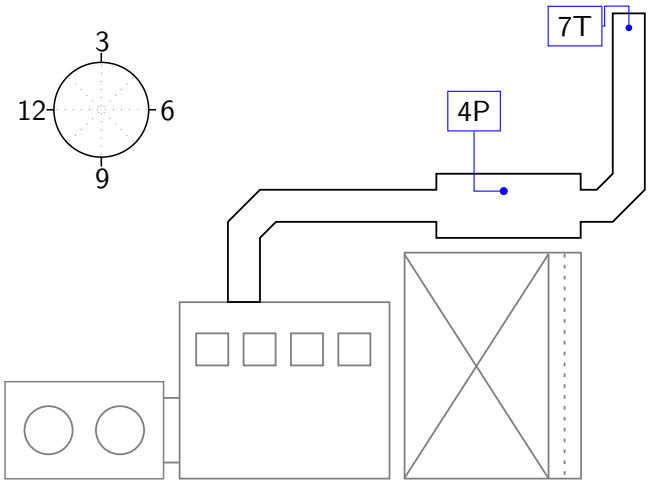


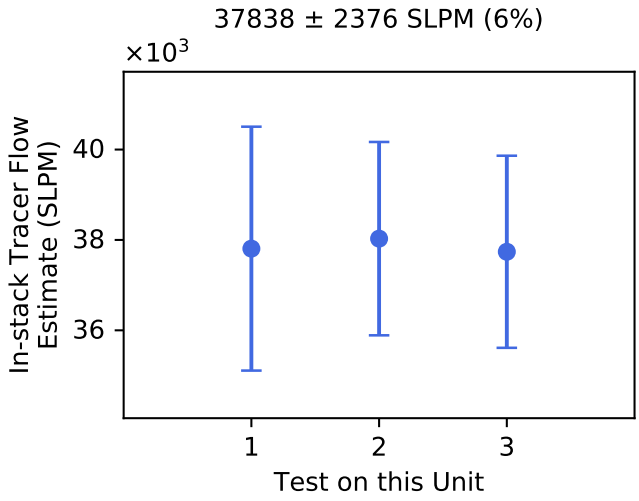
Facility	621
Unit	1
Make	Waukesha
Model	L7042GSI
Type	4SRB
Rating (hp)	1380
Load	-

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4P	Multi	No	7T	Multi	730clock	10	0.168±0.011	4.4±0.2	177±37	37808±2698	0.3±0.1
2	4P	Multi	No	7T	Multi	730clock	10	0.224±0.011	5.9±0.2	216±29	38029±2139	0.3±0.0
3	4P	Multi	No	7T	Multi	430clock	10	0.224±0.011	5.9±0.2	222±45	37738±2125	0.3±0.1



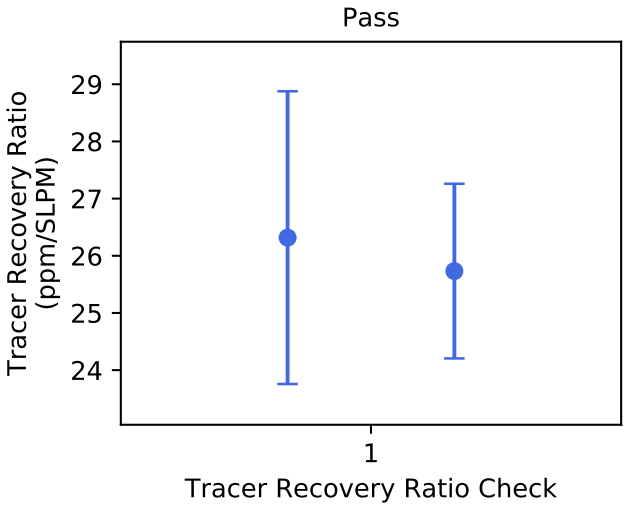


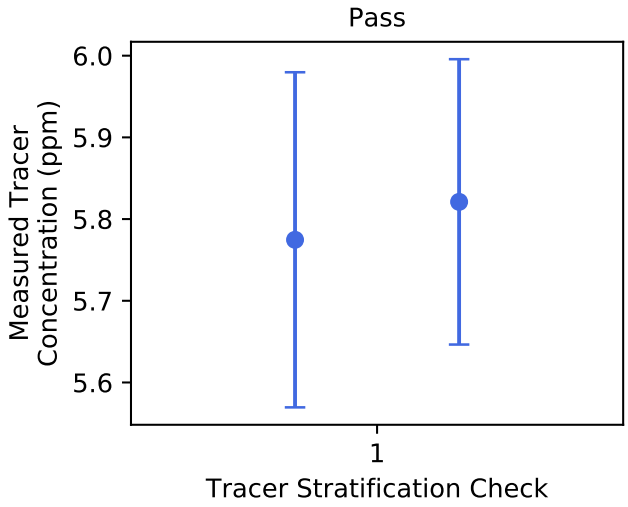


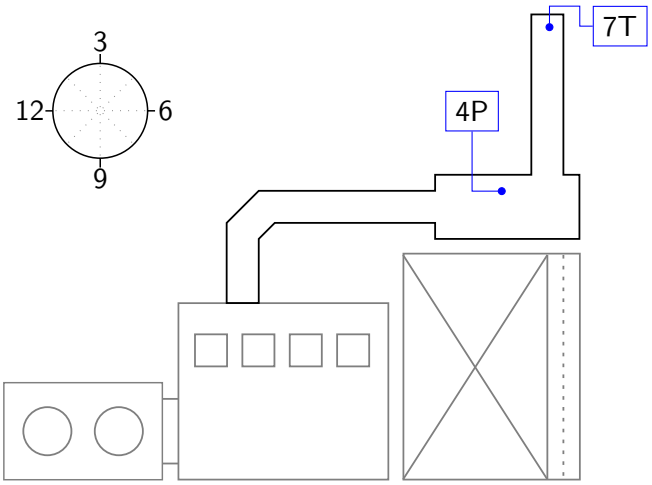


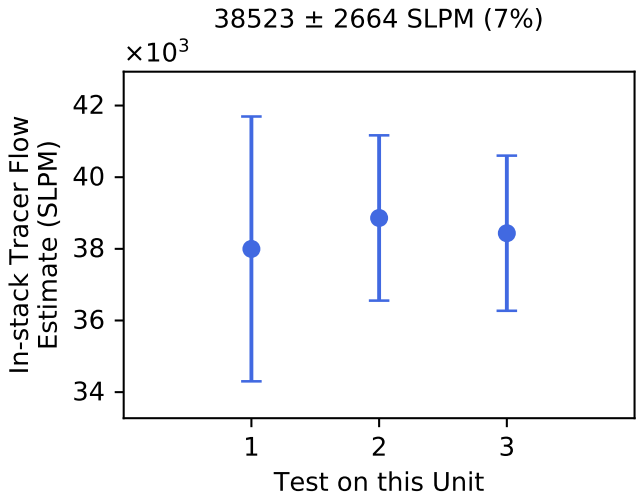
Facility	2259
Unit	1
Make	Waukesha
Model	L5794GSI
Type	4SRB
Rating (hp)	1380
Load	-

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4P	Single	No	7T	Multi	6clock	15	0.112±0.010	2.9±0.1	256±8	37998±3696	0.4±0.0
2	4P	Single	No	7T	Multi	6clock	15	0.224±0.011	5.8±0.2	253±8	38862±2307	0.4±0.0
3	4P	Single	No	7T	Multi	3clock	15	0.224±0.011	5.8±0.2	255±8	38436±2166	0.4±0.0



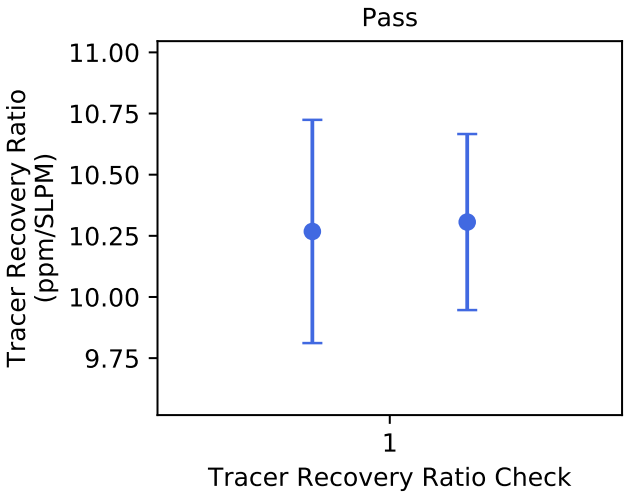


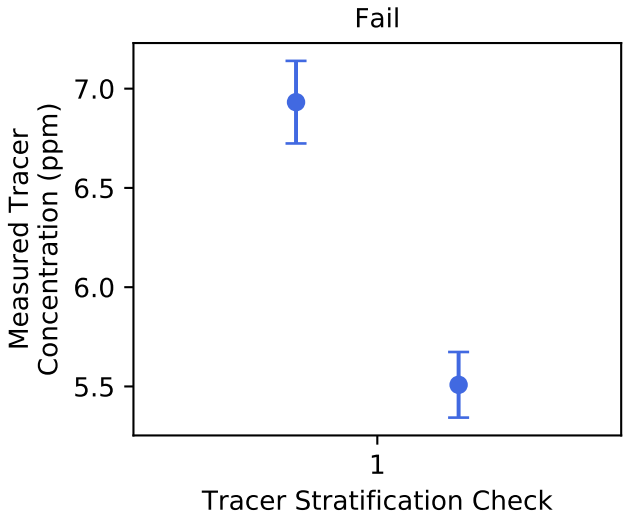


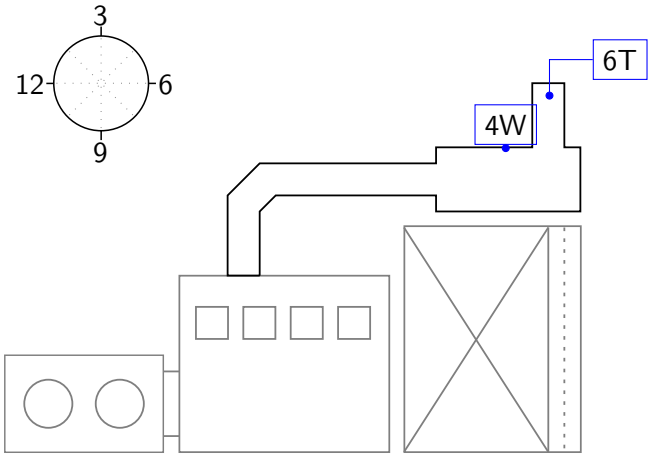


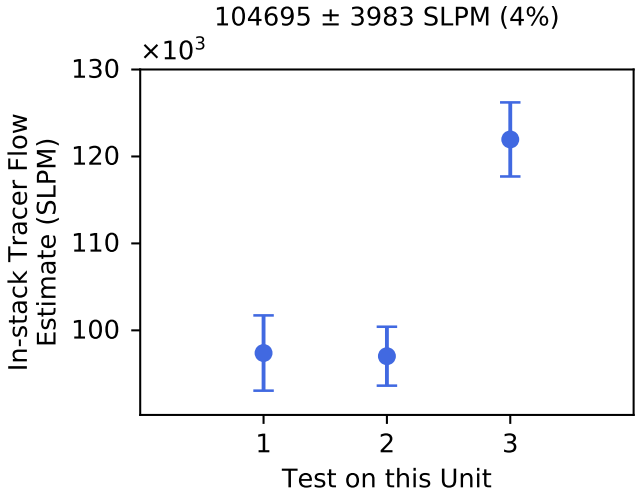
Facility	2856
Unit	1
Make	Caterpillar
Model	G3606 LE
Type	4SLB
Rating (hp)	1775
Load	0.78

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4W	None	Yes	6T	Multi	730clock	10	0.336±0.011	3.4±0.1	1012±30	97392±4328	3.9±0.2
2	4W	None	Yes	6T	Multi	730clock	10	0.673±0.012	6.9±0.2	1019±31	97028±3388	3.9±0.2
3	4W	None	Yes	6T	Multi	430clock	10	0.672±0.012	5.5±0.2	1005±30	121957±4260	4.8±0.2



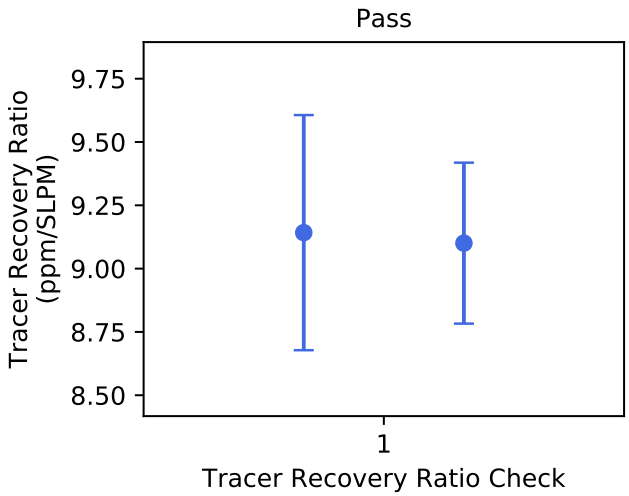


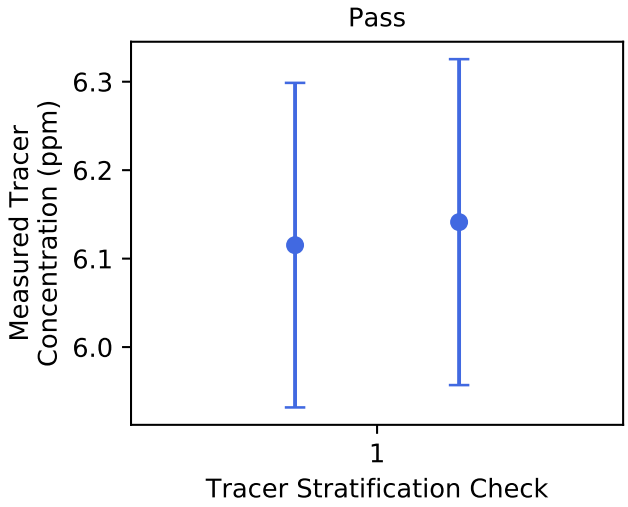


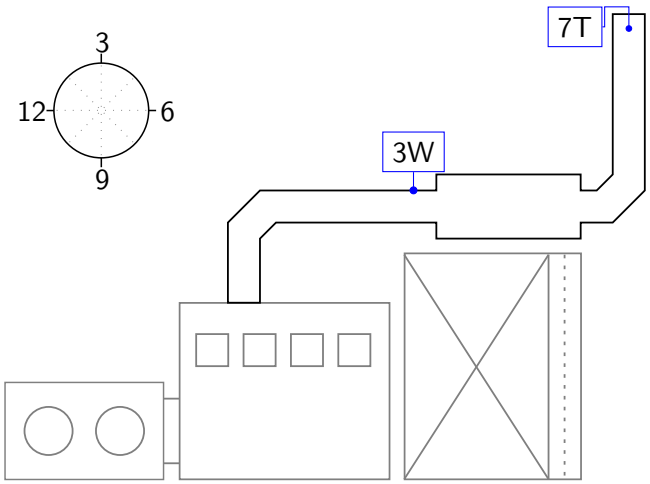


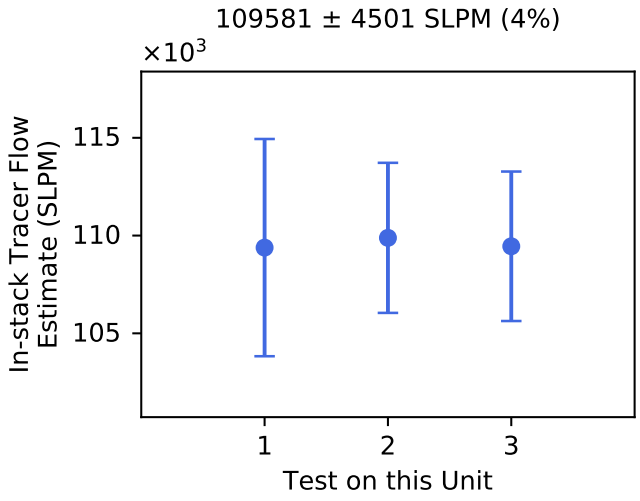
Facility	2856
Unit	2
Make	Caterpillar
Model	G3606 LE
Type	4SLB
Rating (hp)	1775
Load	0.84

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	Yes	7T	Multi	6clock	12	0.336±0.011	3.1±0.1	1176±58	109384±5555	5.1±0.4
2	3W	None	Yes	7T	Multi	6clock	12	0.672±0.012	6.1±0.2	1188±56	109883±3838	5.1±0.3
3	3W	None	Yes	7T	Multi	3clock	12	0.672±0.012	6.1±0.2	1200±59	109452±3822	5.2±0.3



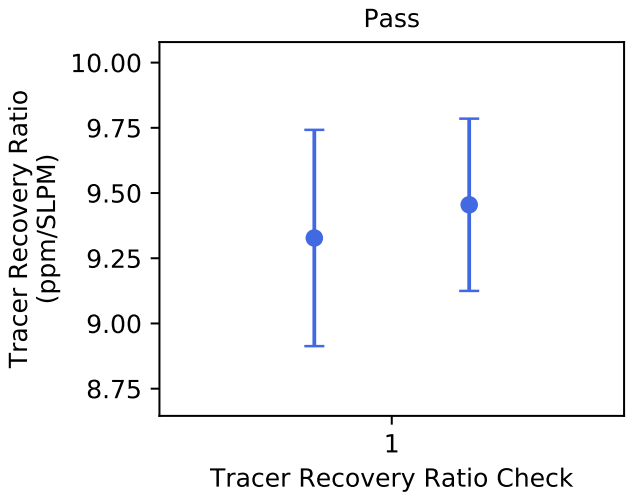


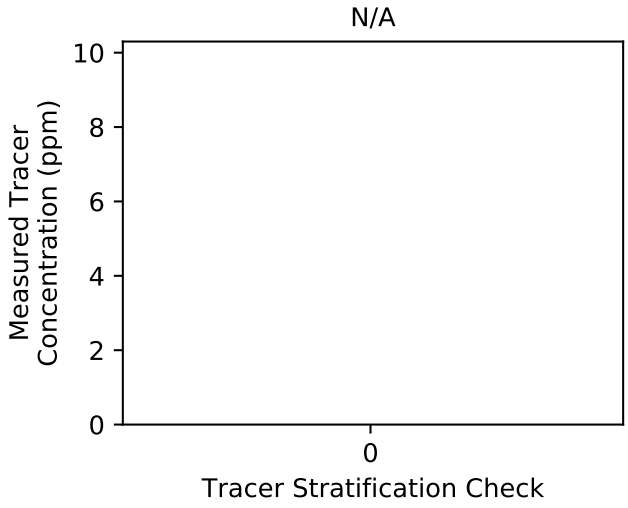


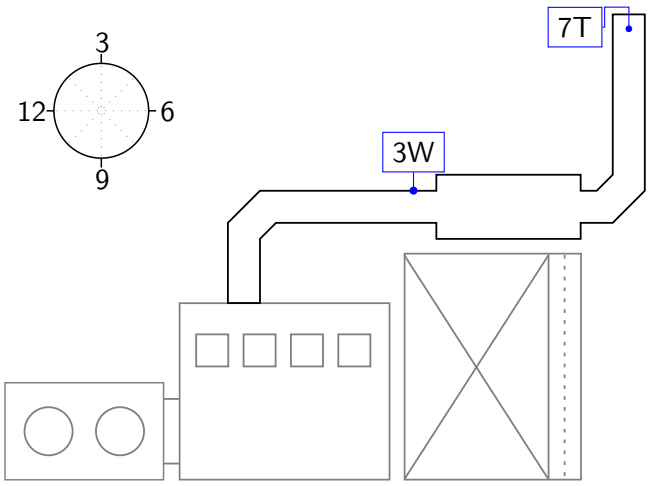


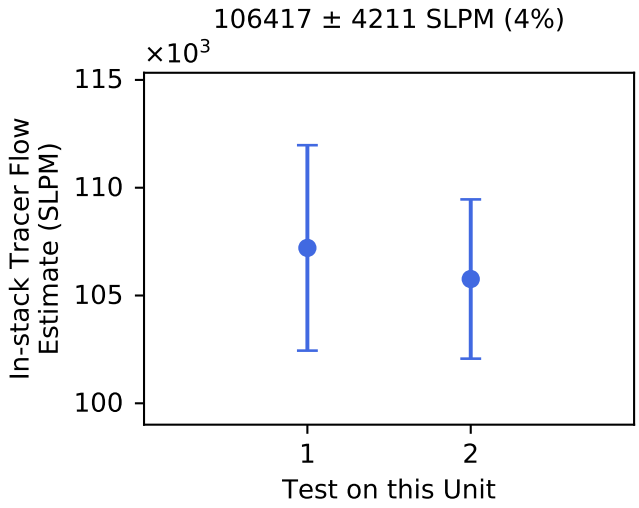
Facility	2856
Unit	3
Make	Caterpillar
Model	G3606 LE
Type	4SLB
Rating (hp)	1775
Load	0.83

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	Yes	7T	Multi	6clock	12	0.336±0.011	3.1±0.1	1008±30	107208±4765	4.3±0.2
2	3W	None	Yes	7T	Multi	6clock	12	0.672±0.012	6.4±0.2	1016±30	105764±3694	4.2±0.2



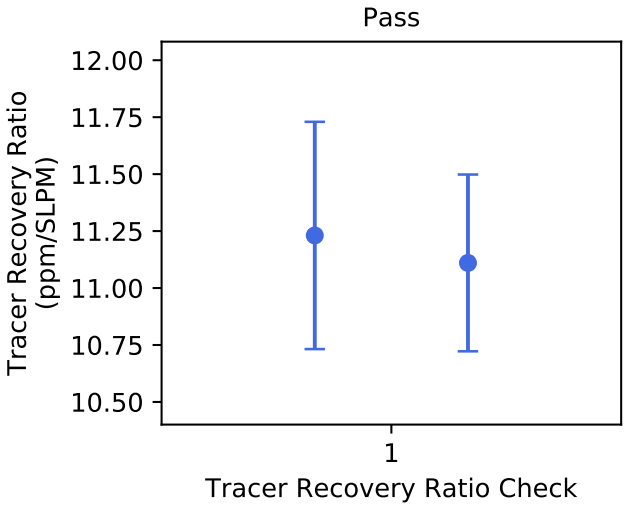


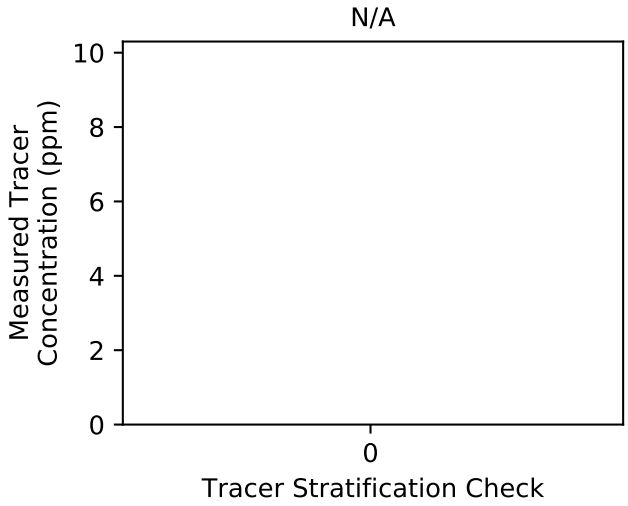


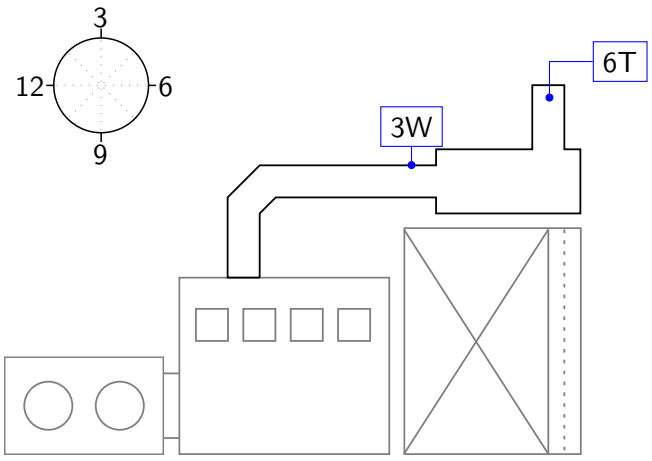


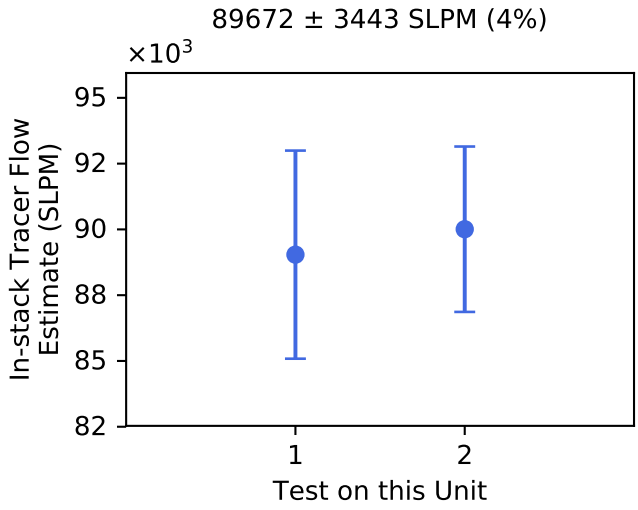
Facility	2494
Unit	1
Make	Caterpillar
Model	G3606 A4
Type	4SLB
Rating (hp)	1875
Load	0.72

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	Yes	6T	Multi	3clock	12	0.336±0.011	3.8±0.1	1280±38	89041±3955	4.5±0.2
2	3W	None	Yes	6T	Multi	3clock	12	0.672±0.012	7.5±0.2	1264±38	90007±3143	4.5±0.2



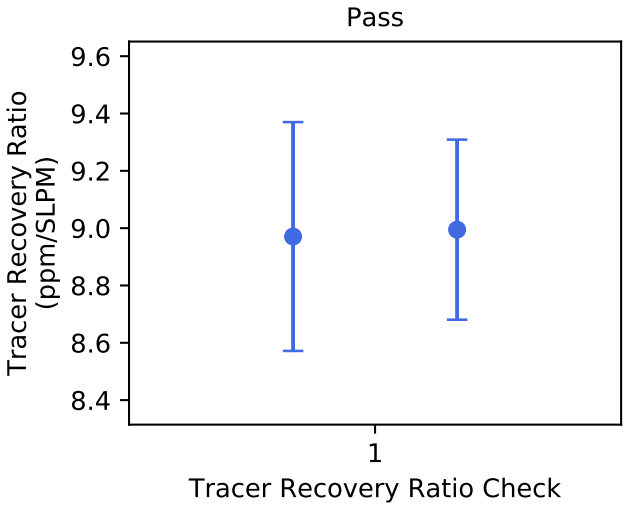


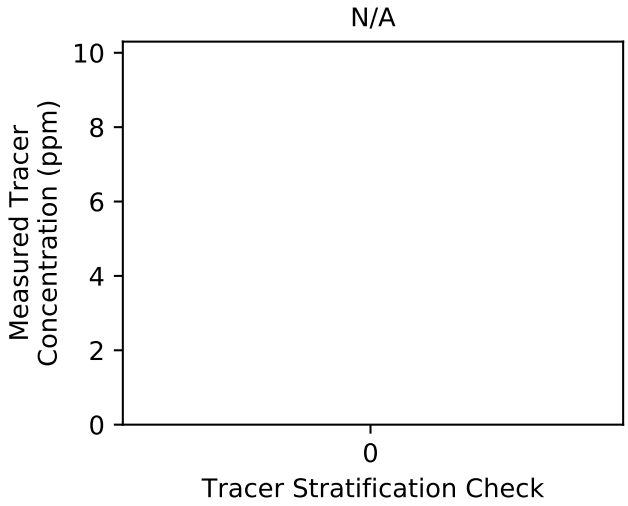


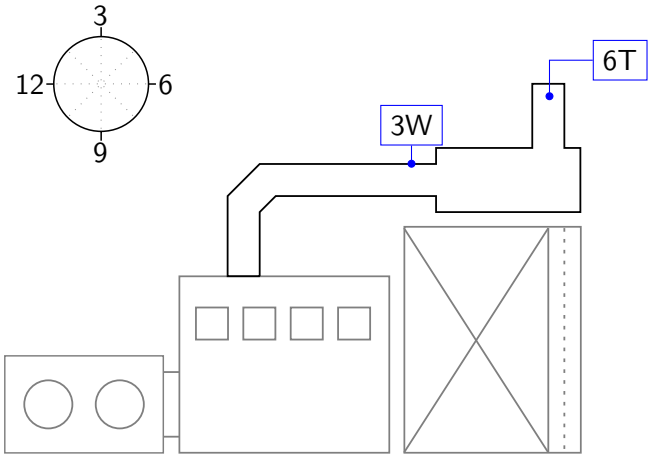


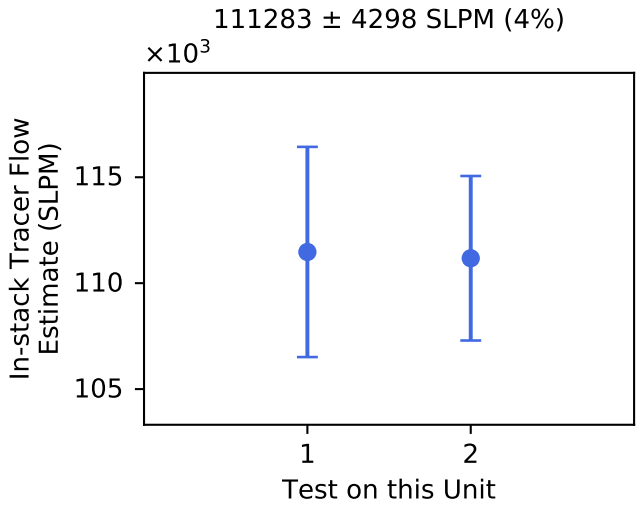
Facility 2494
Unit 2
Make Caterpillar
Model G3606 A4
Type 4SLB
Rating (hp) 1875
Load 0.81

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	Yes	6T	Multi	3clock	12	0.335±0.011	3.0±0.1	1187±36	111473±4961	5.2±0.3
2	3W	None	Yes	6T	Multi	3clock	12	0.672±0.012	6.0±0.2	1185±36	111176±3883	5.2±0.2



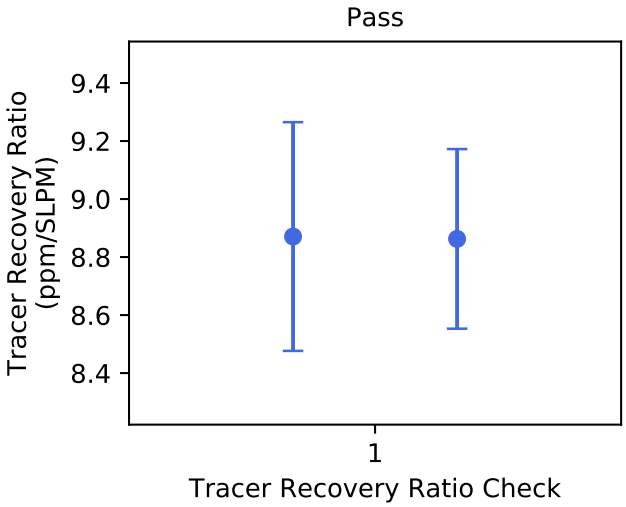


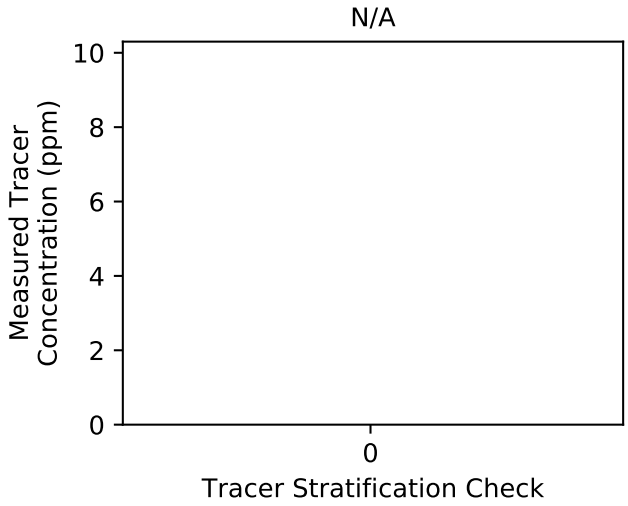


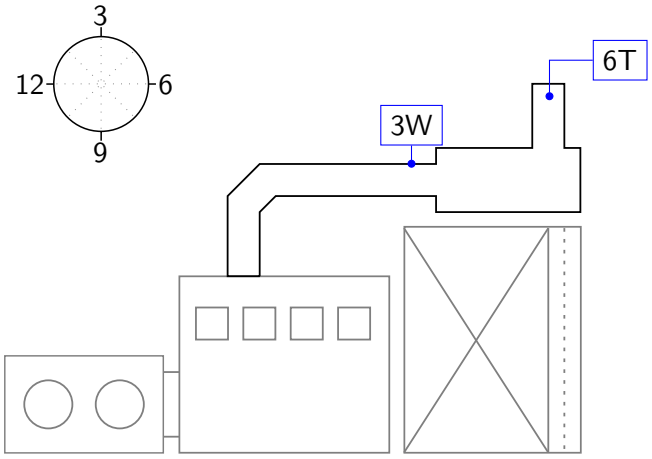


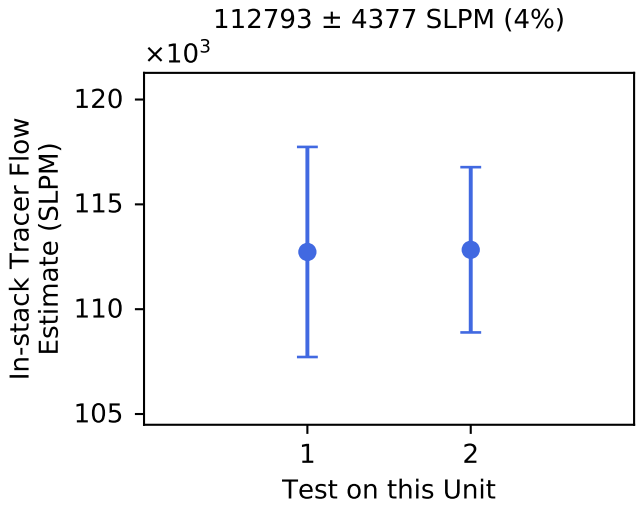
Facility 2494
Unit 3
Make Caterpillar
Model G3606 A4
Type 4SLB
Rating (hp) 1875
Load 0.81

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	Yes	6T	Multi	3clock	12	0.336±0.011	3.0±0.1	1209±36	112729±5010	5.4±0.3
2	3W	None	Yes	6T	Multi	3clock	12	0.671±0.012	5.9±0.2	1200±36	112833±3942	5.3±0.2



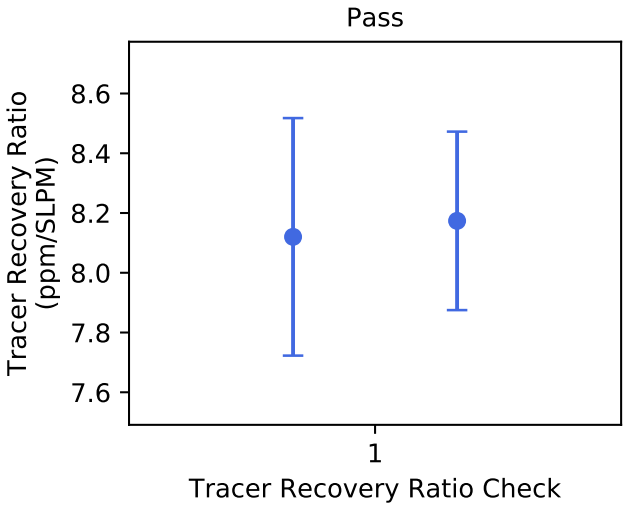


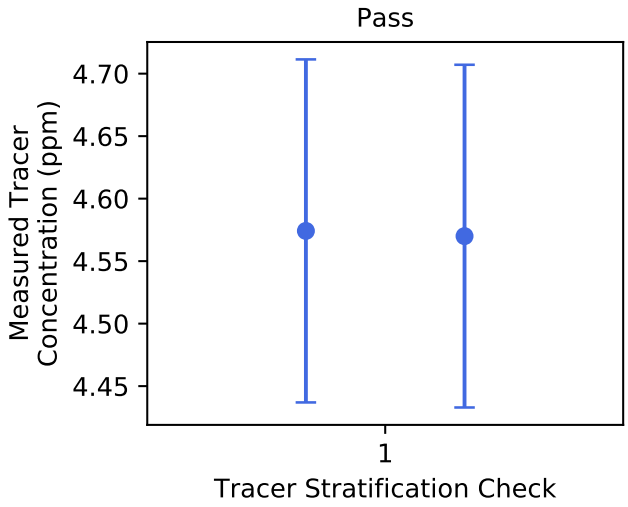


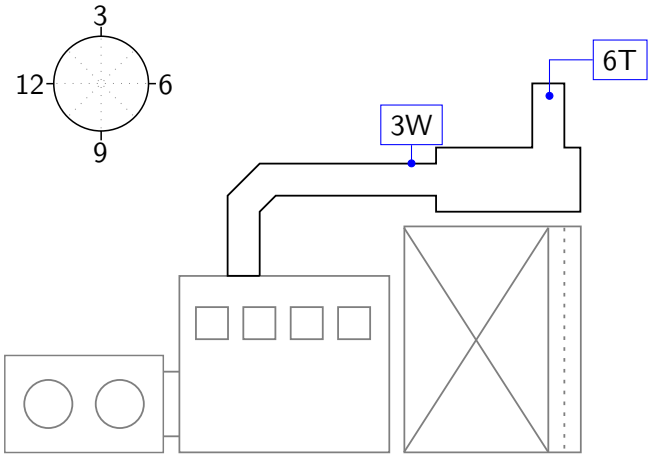


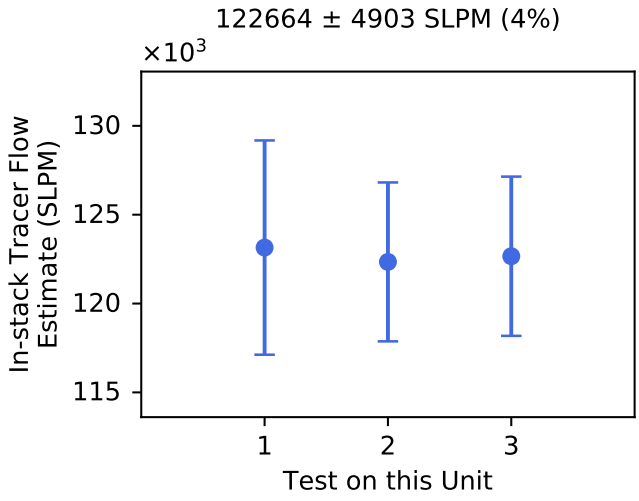
Facility 2494
Unit 4
Make Caterpillar
Model G3606 A4
Type 4SLB
Rating (hp) 1875
Load 0.90

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	Yes	6T	Multi	430clock	12	0.280±0.011	2.3±0.1	1270±38	123150±6029	6.2±0.4
2	3W	None	Yes	6T	Multi	430clock	12	0.560±0.012	4.6±0.1	1233±37	122343±4471	5.9±0.3
3	3W	None	Yes	6T	Multi	130clock	12	0.561±0.012	4.6±0.1	1253±38	122663±4481	6.1±0.3



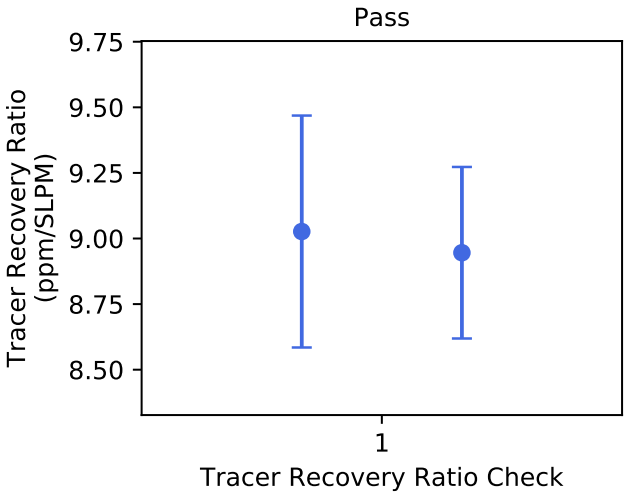


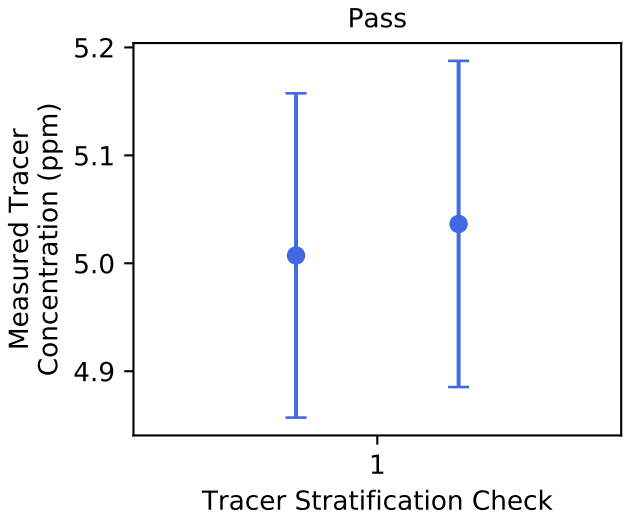


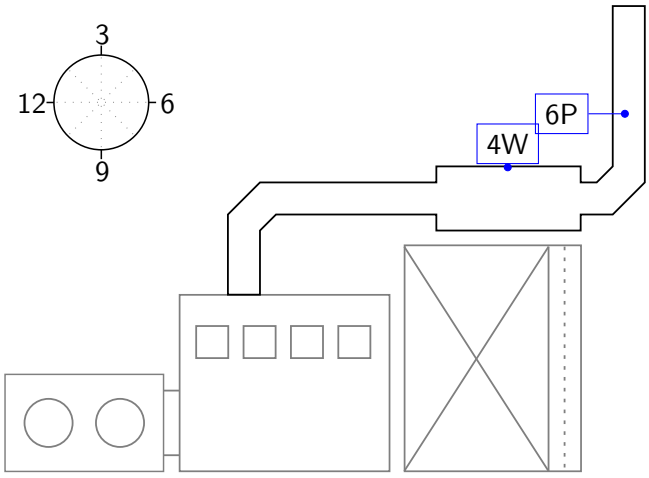


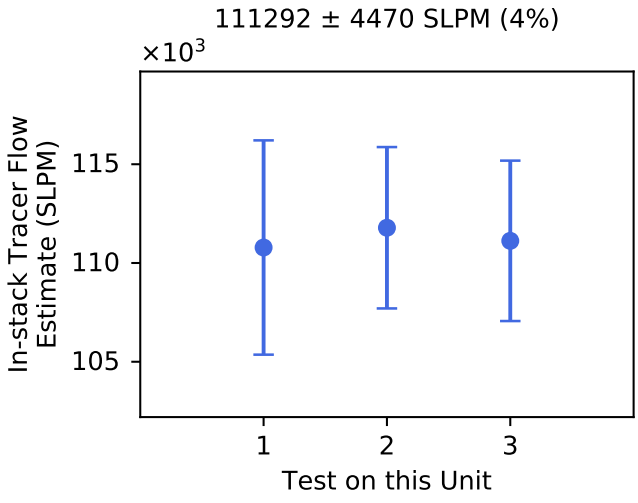
Facility 1785
Unit 1
Make Caterpillar
Model G3606
Type 4SLB
Rating (hp) 1775
Load 0.82

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4W	None	No	6P	Multi	12clock	12	0.280±0.011	2.5±0.1	1640±140	110784±5425	7.2±0.7
2	4W	None	No	6P	Multi	12clock	12	0.560±0.012	5.0±0.2	1631±138	111784±4085	7.2±0.7
3	4W	None	No	6P	Multi	9clock	12	0.560±0.012	5.0±0.2	1602±115	111121±4061	7.0±0.6



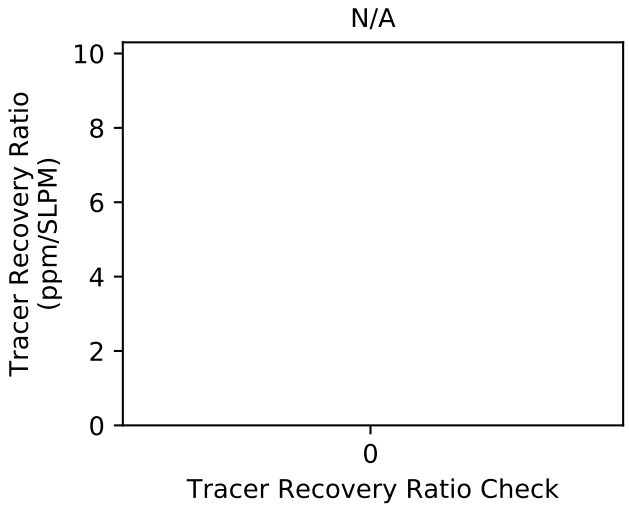


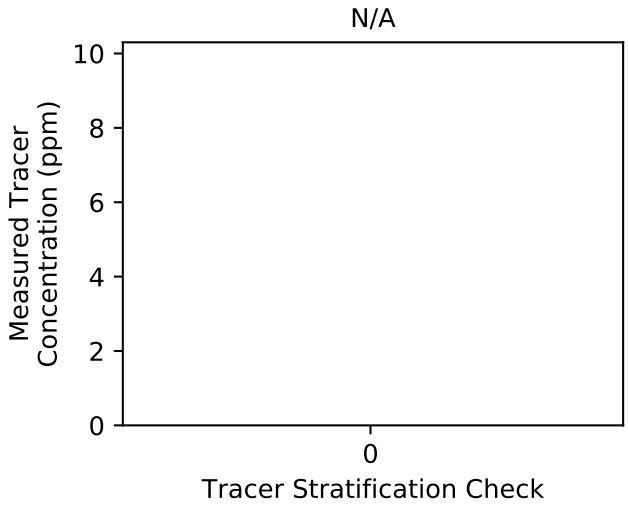


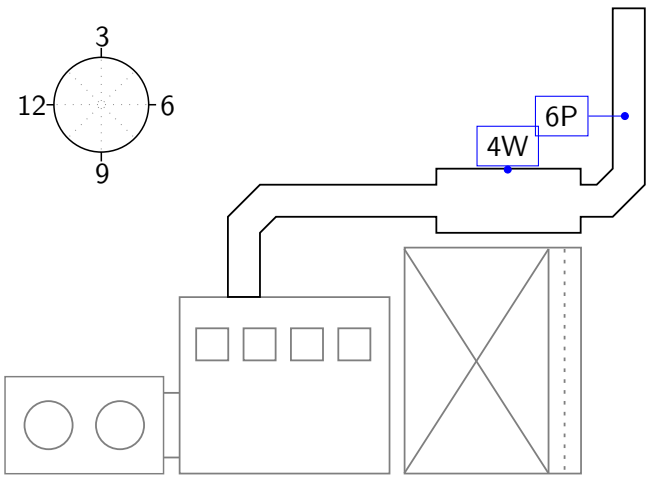


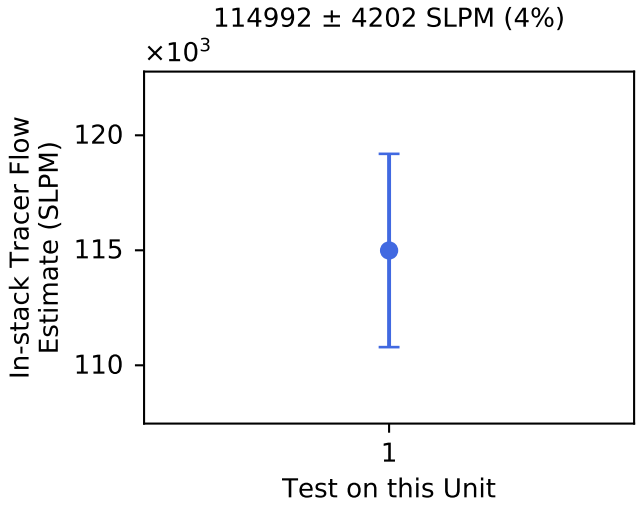
Facility	1785
Unit	2
Make	Caterpillar
Model	G3606
Type	4SLB
Rating (hp)	1775
Load	0.86

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4W	None	No	6P	Multi	9clock	12	0.560±0.012	4.9±0.1	1499±145	114992±4202	6.8±0.7



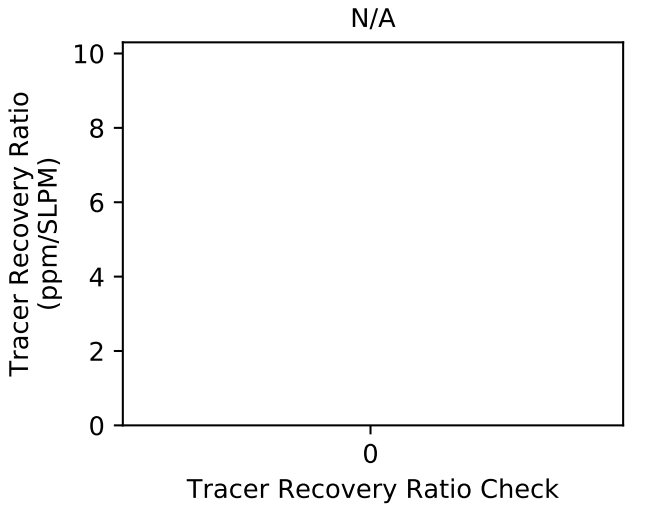


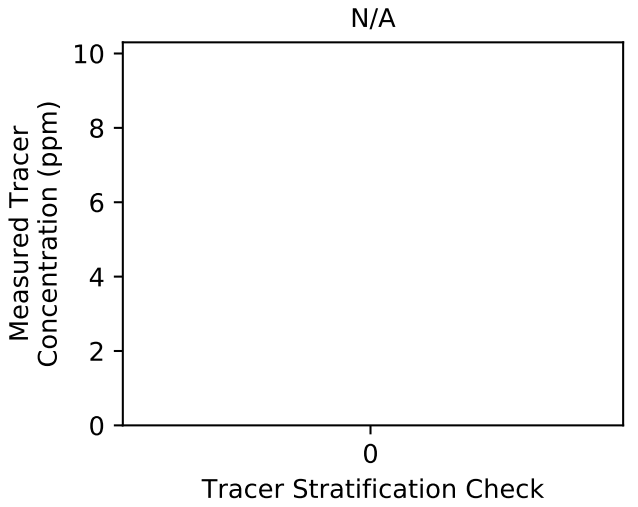


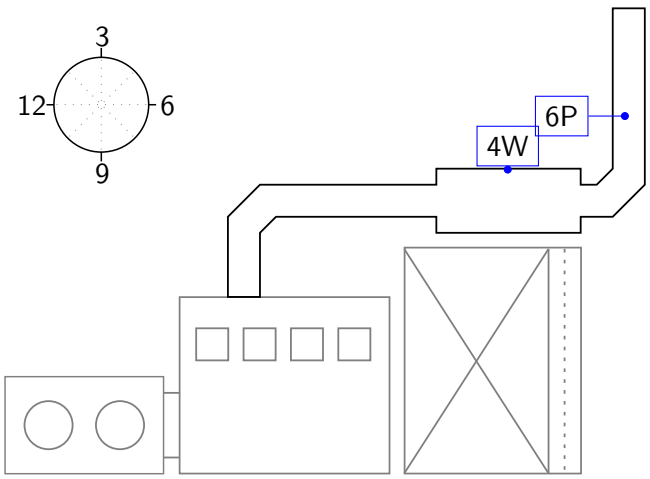


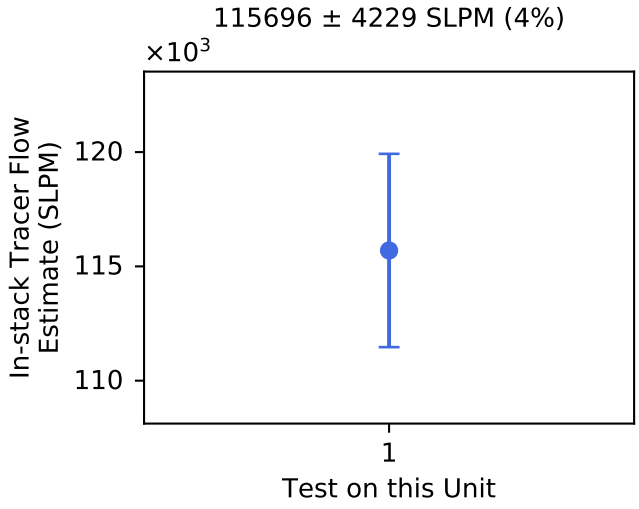
Facility 1785
Unit 3
Make Caterpillar
Model G3606
Type 4SLB
Rating (hp) 1775
Load 0.82

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4W	None	No	6P	Multi	9clock	12	0.559±0.012	4.8±0.1	1817±212	115696±4229	8.3±1.0



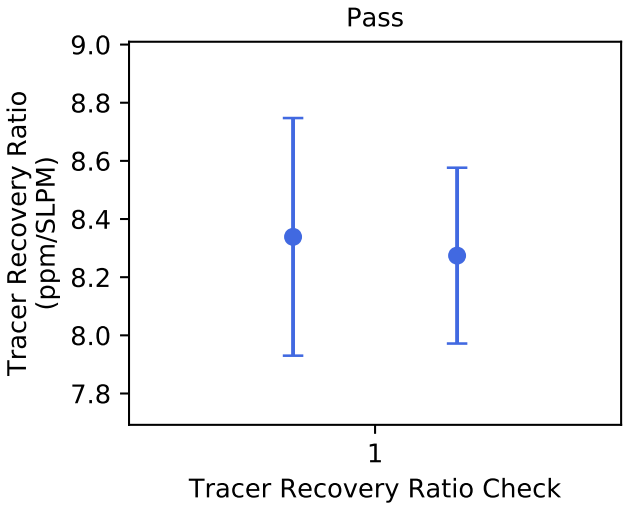


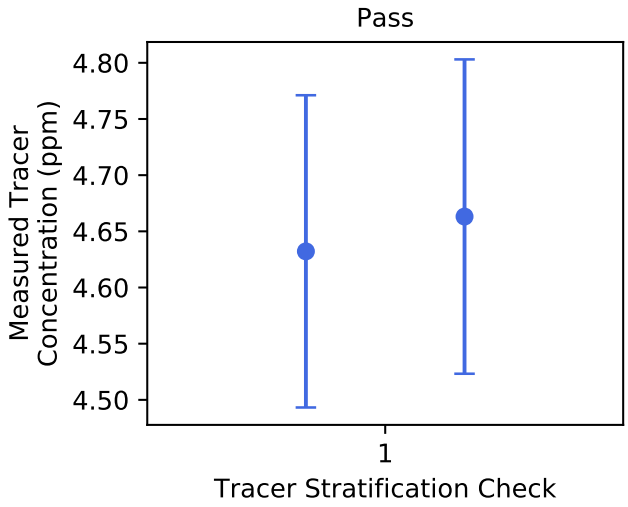


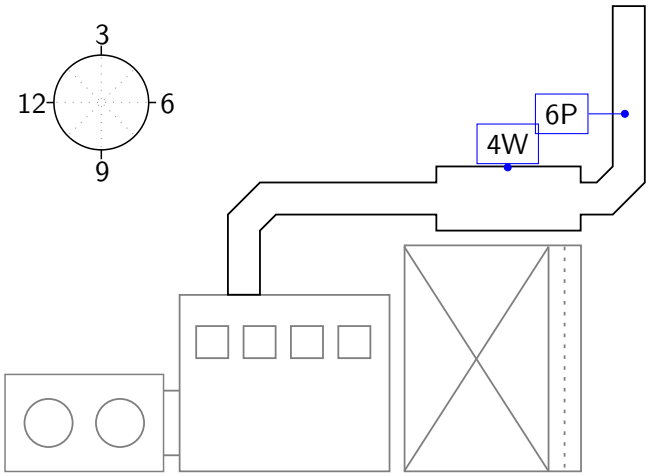


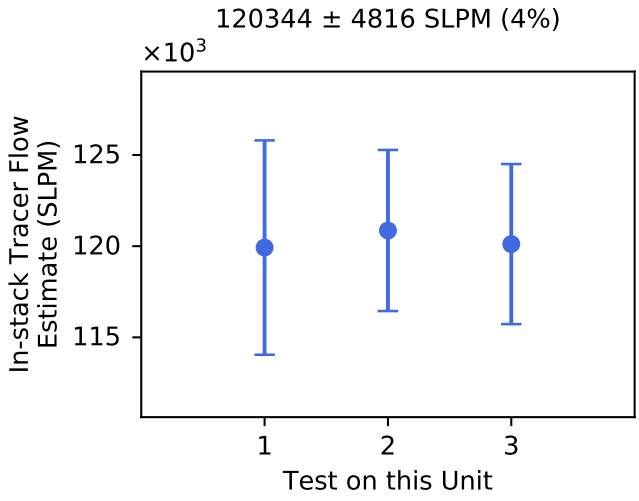
Facility	1785
Unit	4
Make	Caterpillar
Model	G3606
Type	4SLB
Rating (hp)	1775
Load	0.84

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4W	None	No	6P	Multi	9clock	12	0.280±0.011	2.3±0.1	1571±152	119923±5876	7.4±0.8
2	4W	None	No	6P	Multi	9clock	12	0.560±0.012	4.6±0.1	1534±145	120858±4416	7.3±0.7
3	4W	None	No	6P	Multi	12clock	12	0.560±0.012	4.7±0.1	1556±153	120114±4388	7.4±0.8



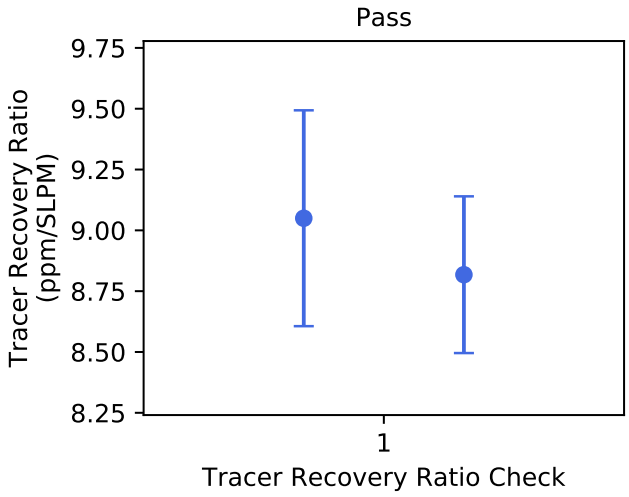


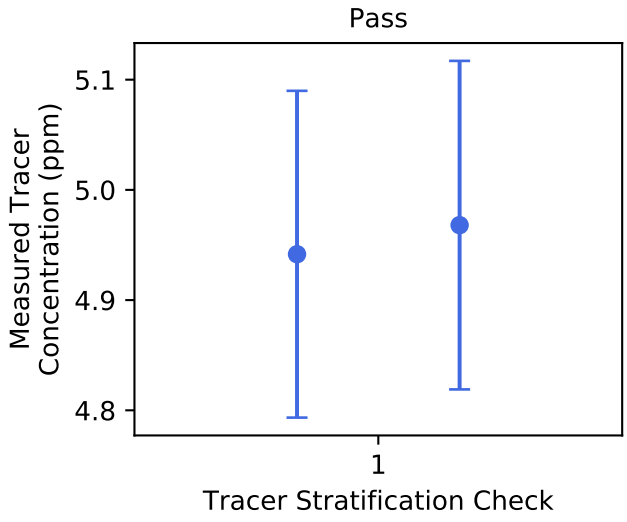


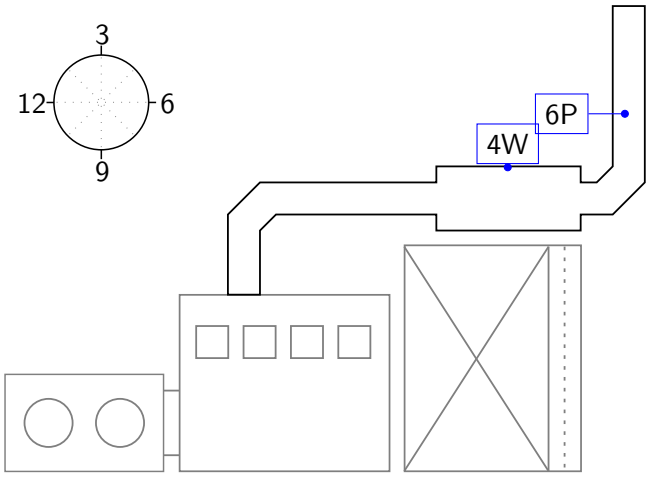


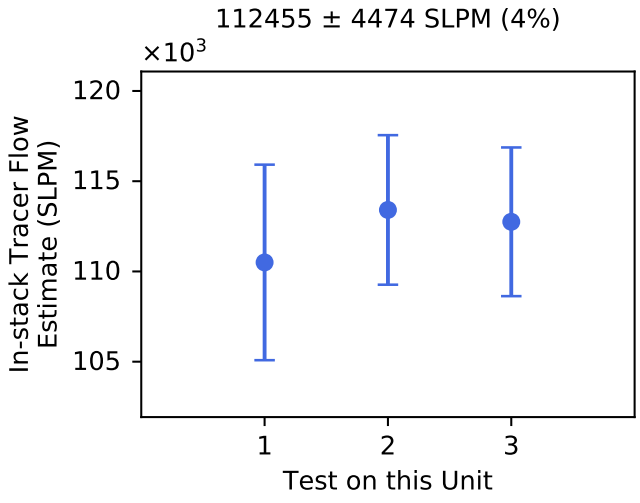
Facility	1785
Unit	5
Make	Caterpillar
Model	G3606
Type	4SLB
Rating (hp)	1775
Load	0.82

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4W	None	No	6P	Multi	9clock	12	0.280±0.011	2.5±0.1	1555±88	110500±5417	6.8±0.5
2	4W	None	No	6P	Multi	9clock	12	0.560±0.012	4.9±0.1	1571±143	113408±4143	7.0±0.7
3	4W	None	No	6P	Multi	12clock	12	0.560±0.012	5.0±0.1	1513±103	112751±4119	6.7±0.5



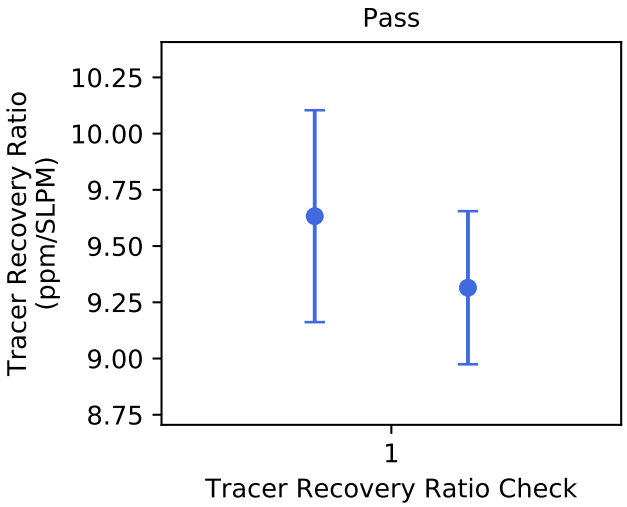


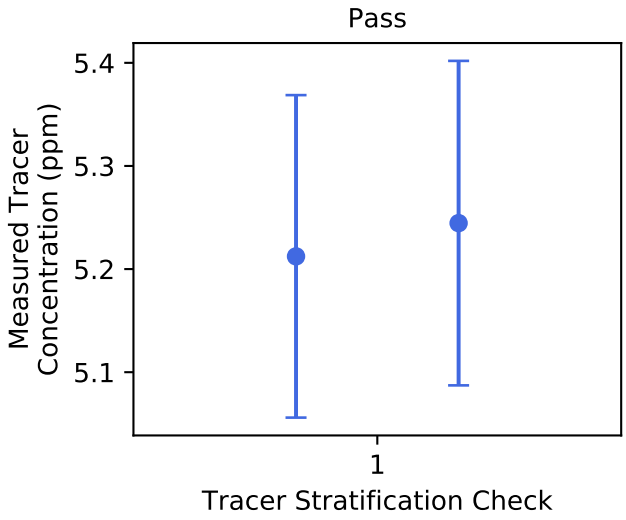


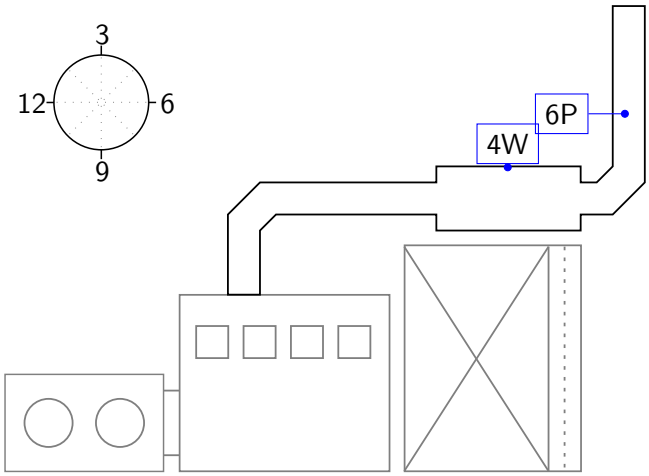


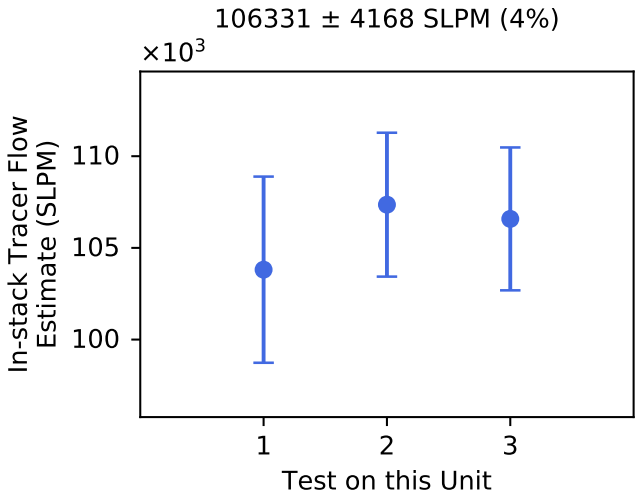
Facility 1785
Unit 6
Make Caterpillar
Model G3606
Type 4SLB
Rating (hp) 1775
Load 0.82

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4W	None	No	6P	Multi	9clock	12	0.281±0.011	2.7±0.1	1440±79	103811±5077	5.9±0.4
2	4W	None	No	6P	Multi	9clock	12	0.560±0.012	5.2±0.2	1421±85	107357±3923	6.0±0.4
3	4W	None	No	6P	Multi	12clock	12	0.559±0.012	5.2±0.2	1433±86	106581±3896	6.0±0.4



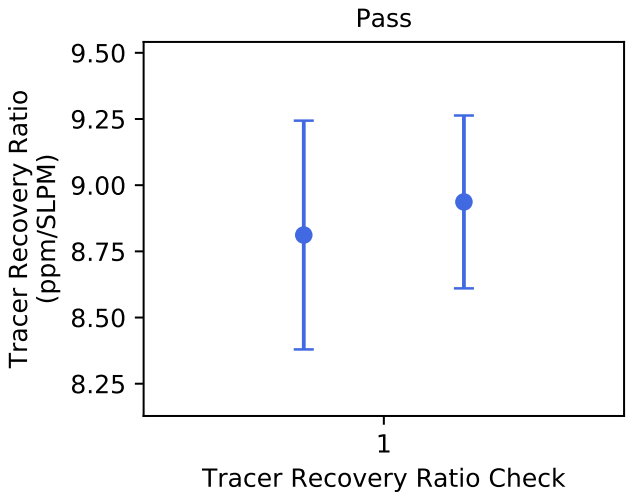


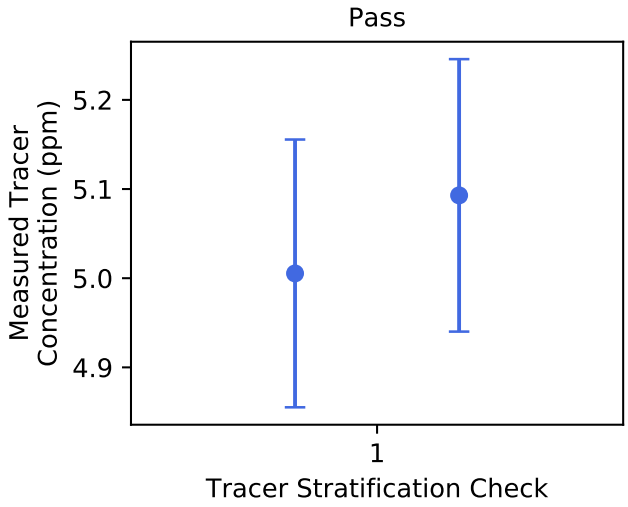


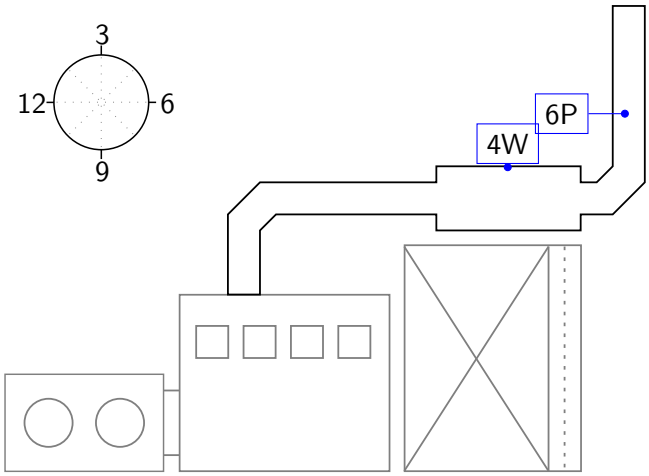


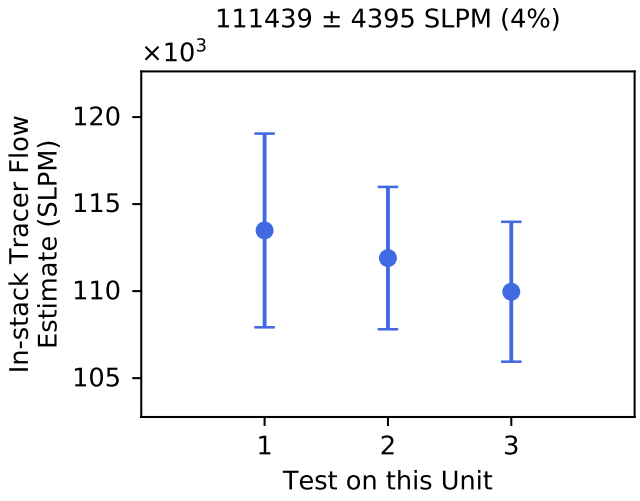
Facility	1785
Unit	7
Make	Caterpillar
Model	G3606
Type	4SLB
Rating (hp)	1775
Load	0.87

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4W	None	No	6P	Multi	9clock	12	0.279±0.011	2.5±0.1	1266±42	113486±5565	5.7±0.3
2	4W	None	No	6P	Multi	9clock	12	0.560±0.012	5.0±0.2	1292±39	111898±4088	5.7±0.3
3	4W	None	No	6P	Multi	12clock	12	0.560±0.012	5.1±0.2	1299±40	109964±4018	5.6±0.3



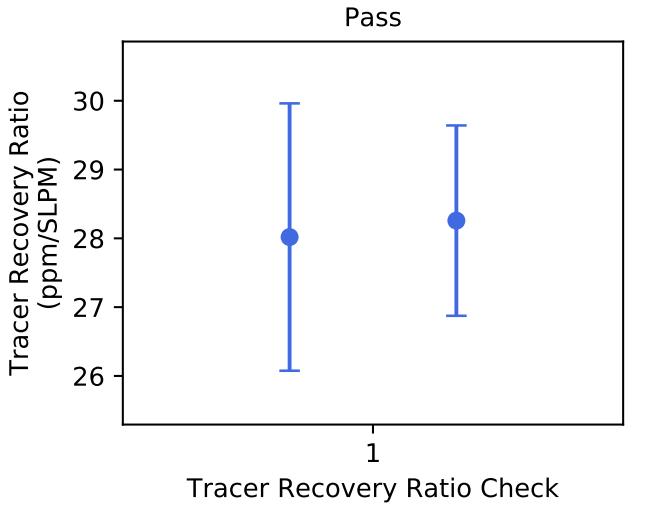


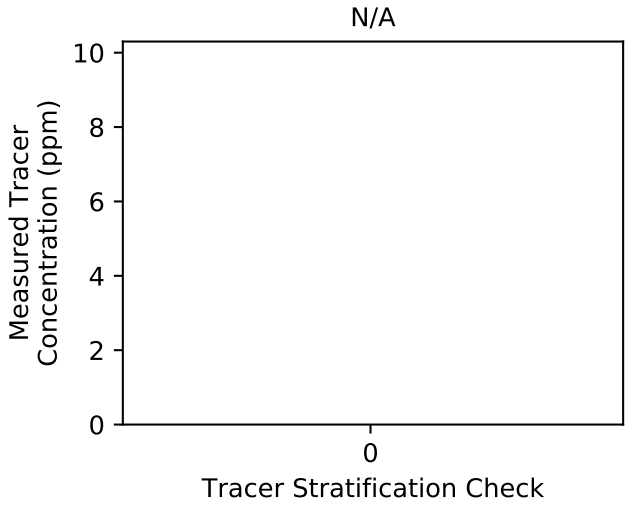


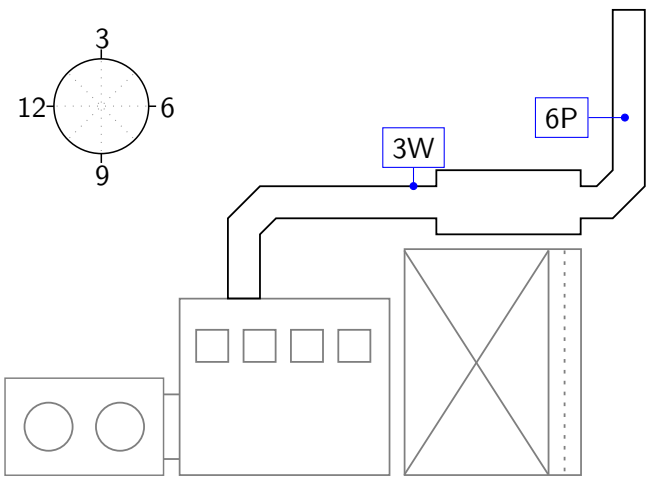


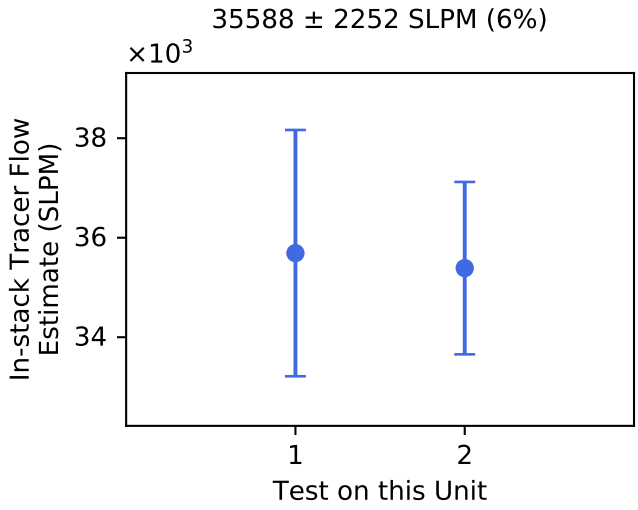
Facility	765
Unit	1
Make	Waukesha
Model	L7042GSI
Type	4SRB
Rating (hp)	1478
Load	-

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	Yes	6P	MultiTee	12clock	15	0.168±0.011	4.7±0.1	585±56	35690±2475	0.8±0.1
2	3W	None	Yes	6P	MultiTee	12clock	15	0.280±0.011	7.9±0.2	572±51	35389±1733	0.8±0.1



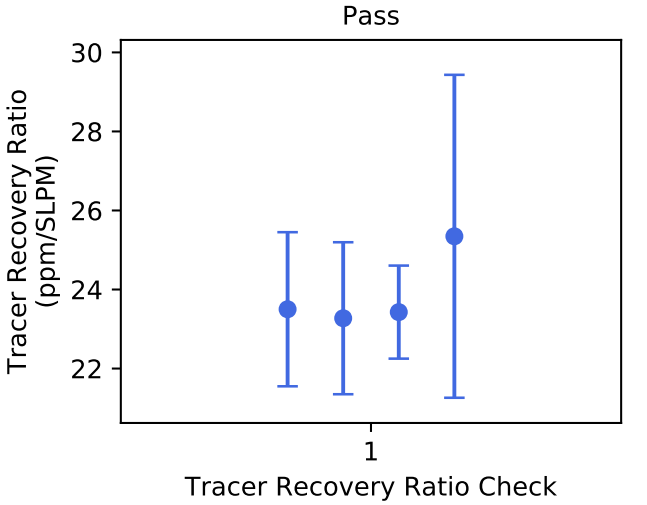


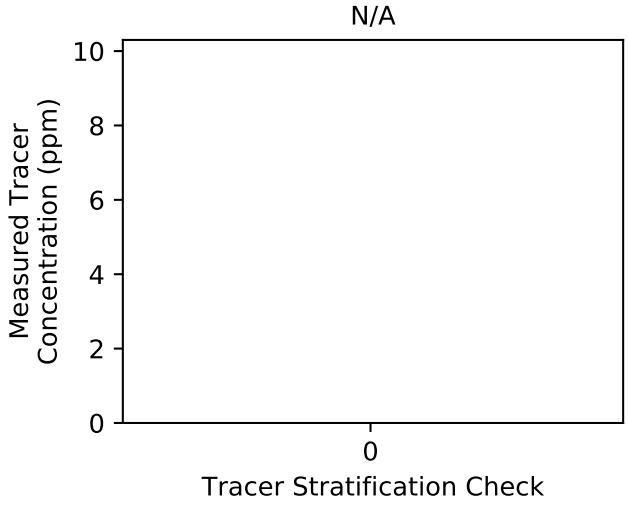


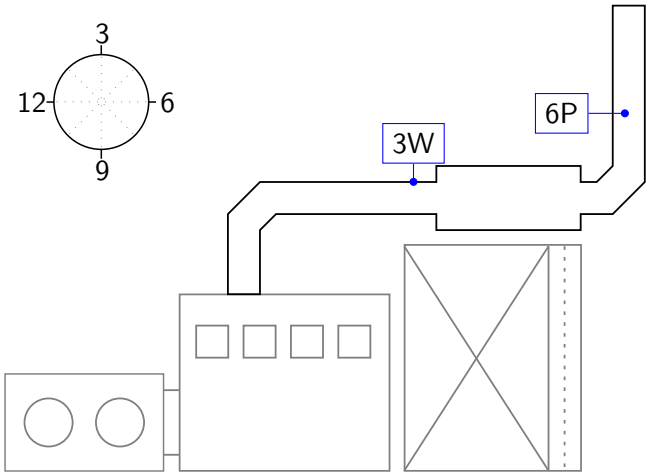


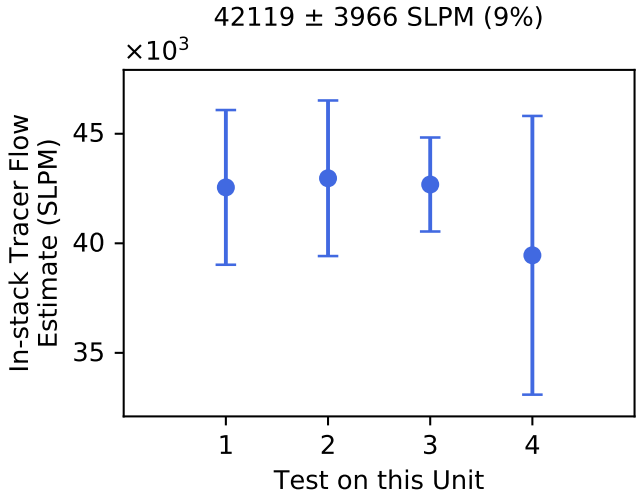
Facility 765
Unit 2
Make Waukesha
Model L7042GSI
Type 4SRB
Rating (hp) 1478
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	Yes	6P	MultiTee	12clock	15	0.134±0.010	3.2±0.1	442±66	42552±3531	0.7±0.1
2	3W	None	Yes	6P	MultiTee	12clock	15	0.135±0.010	3.1±0.1	450±59	42968±3551	0.8±0.1
3	3W	None	Yes	6P	MultiTee	12clock	15	0.268±0.011	6.3±0.2	441±54	42684±2145	0.7±0.1
4	3W	None	Yes	6P	MultiTee	12clock	15	0.066±0.010	1.7±0.1	432±49	39453±6360	0.7±0.1



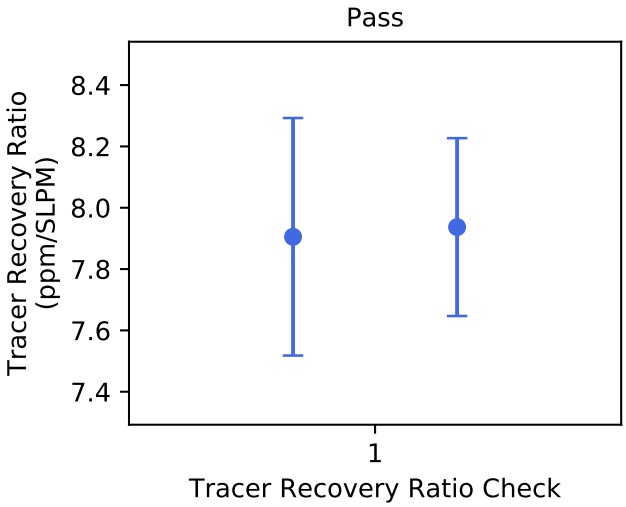


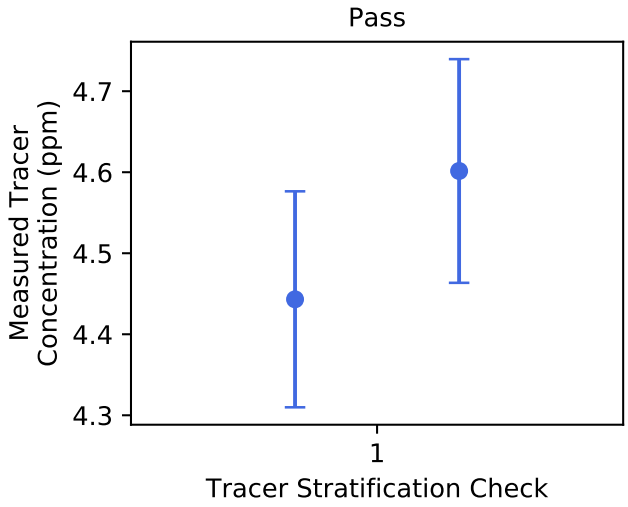


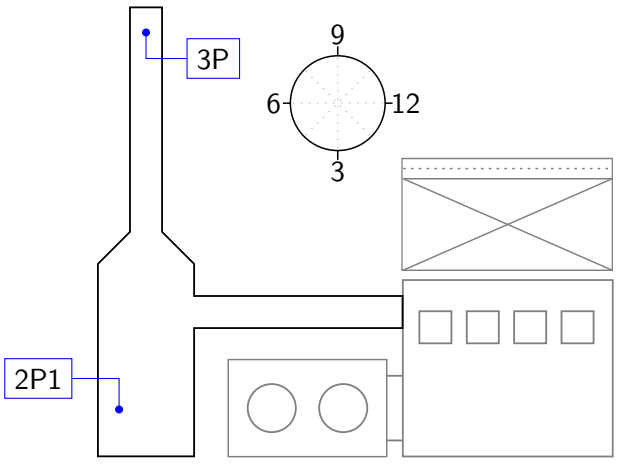


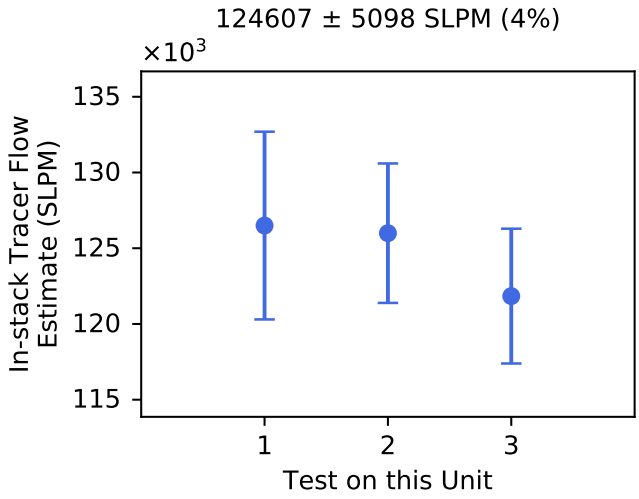
Facility 2557
Unit 1
Make Caterpillar
Model G3606 TALE
Type 4SLB
Rating (hp) 1775
Load 0.96

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P1	Multi	No	3P	Multi	6clock	20	0.280±0.011	2.2±0.1	1734±52	126498±6198	8.6±0.5
2	2P1	Multi	No	3P	Multi	6clock	20	0.560±0.012	4.4±0.1	1726±52	125994±4604	8.6±0.4
3	2P1	Multi	No	3P	Multi	9clock	20	0.561±0.012	4.6±0.1	1737±52	121840±4450	8.3±0.4



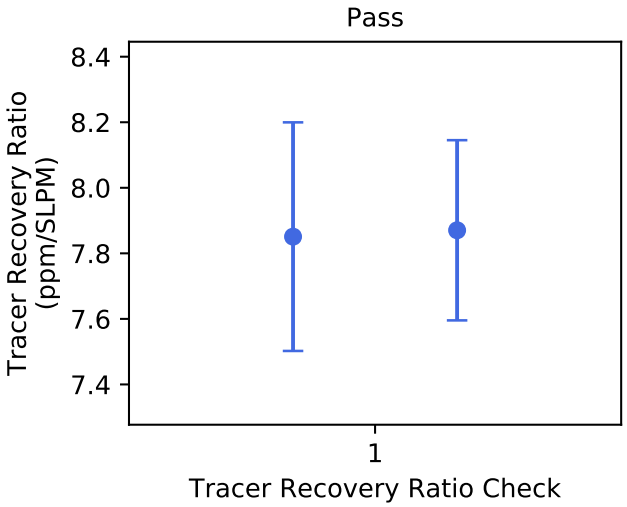


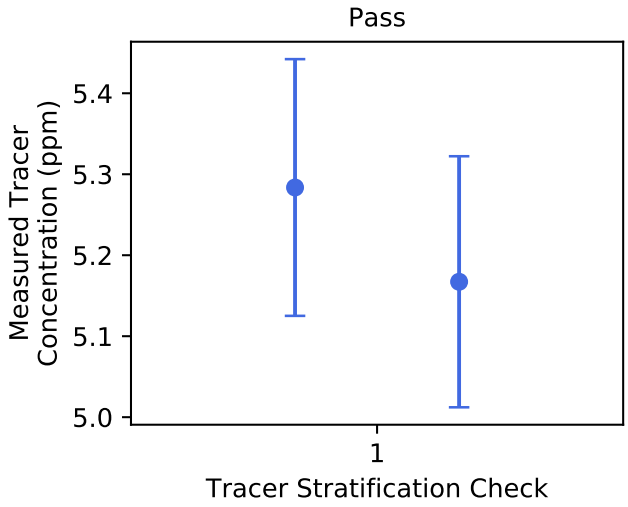


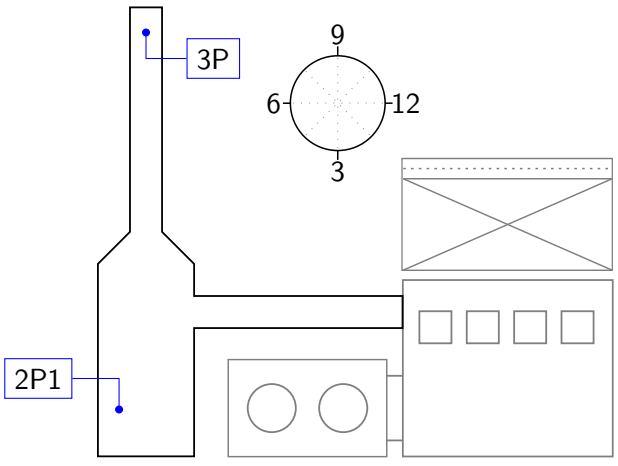


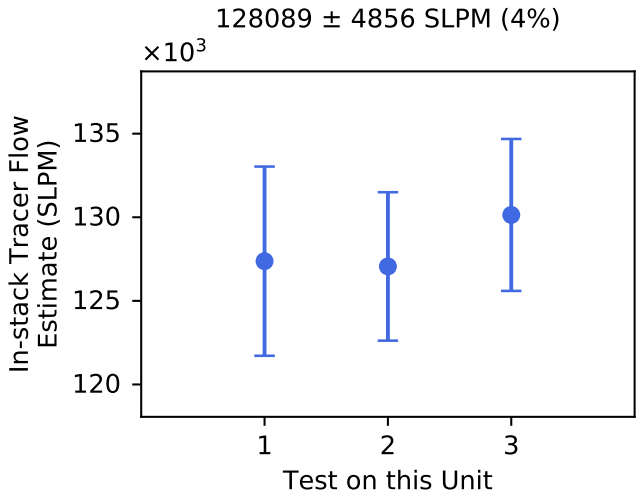
Facility 2557
Unit 2
Make Caterpillar
Model G3606 TALE
Type 4SLB
Rating (hp) 1775
Load 0.98

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P1	Multi	No	3P	Multi	9clock	20	0.336±0.011	2.6±0.1	1949±71	127374±5658	9.8±0.6
2	2P1	Multi	No	3P	Multi	9clock	20	0.671±0.012	5.3±0.2	1933±63	127059±4438	9.7±0.5
3	2P1	Multi	No	3P	Multi	6clock	20	0.672±0.012	5.2±0.2	1939±58	130139±4544	10.0±0.5



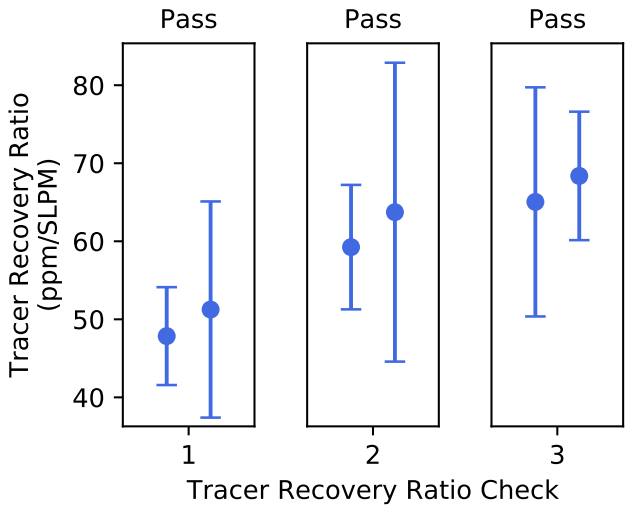


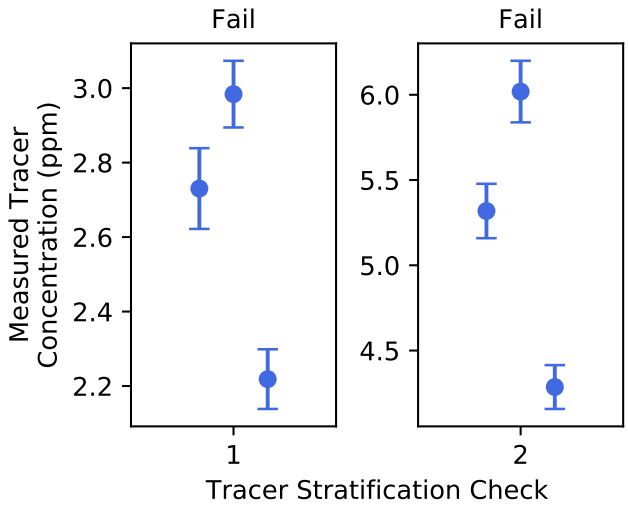


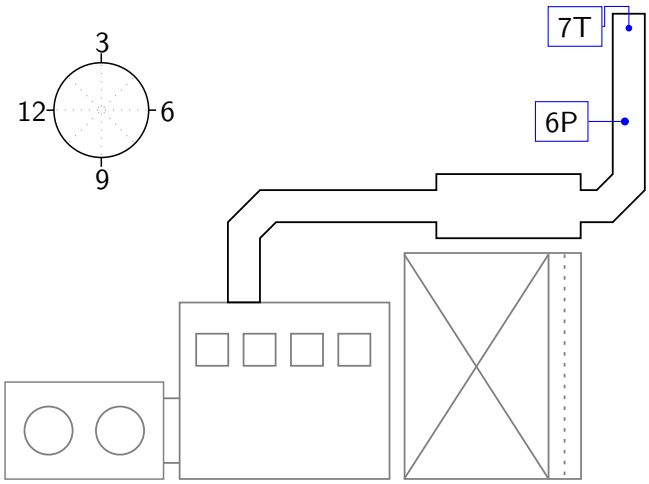


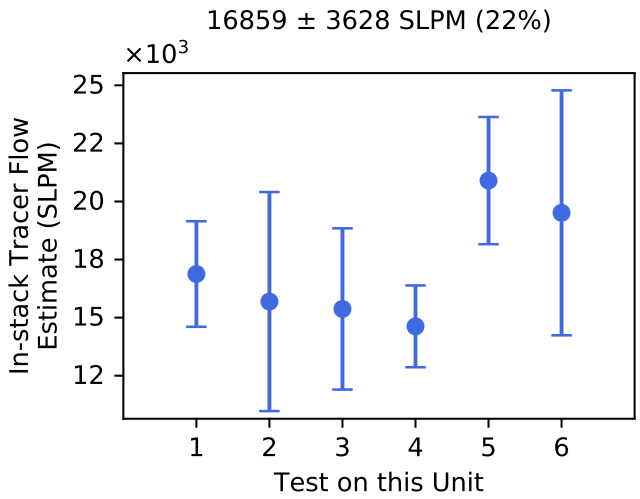
Facility 1167
Unit 1
Make Waukesha
Model L7042
Type 4SRB
Rating (hp) 500
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	6P	Single	No	7T	Single	6clock	4	0.090±0.012	5.3±0.2	1250±37	16877±2272	0.8±0.1
2	6P	Single	No	7T	Single	6clock	4	0.043±0.013	2.7±0.1	1234±37	15691±4715	0.8±0.2
3	6P	Single	No	7T	Single	9clock	4	0.046±0.010	3.0±0.1	1233±37	15373±3470	0.7±0.2
4	6P	Single	No	7T	Single	9clock	4	0.088±0.010	6.0±0.2	1229±37	14625±1761	0.7±0.1
5	6P	Single	No	7T	Single	3clock	4	0.090±0.011	4.3±0.1	1222±37	20900±2739	1.0±0.1
6	6P	Single	No	7T	Single	3clock	4	0.043±0.012	2.2±0.1	1218±37	19511±5272	0.9±0.3



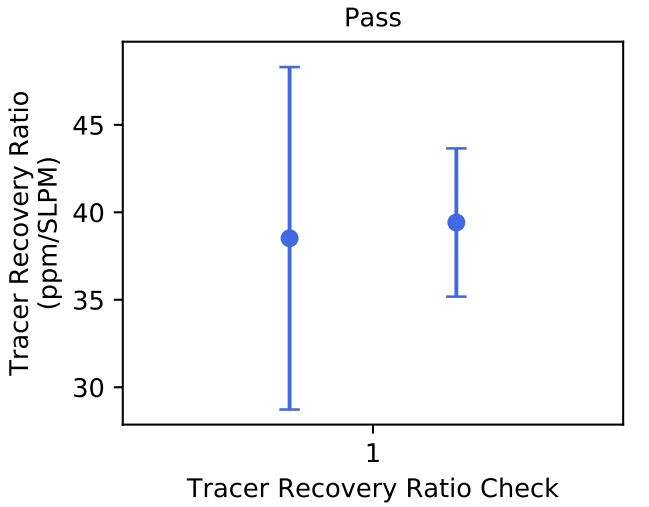


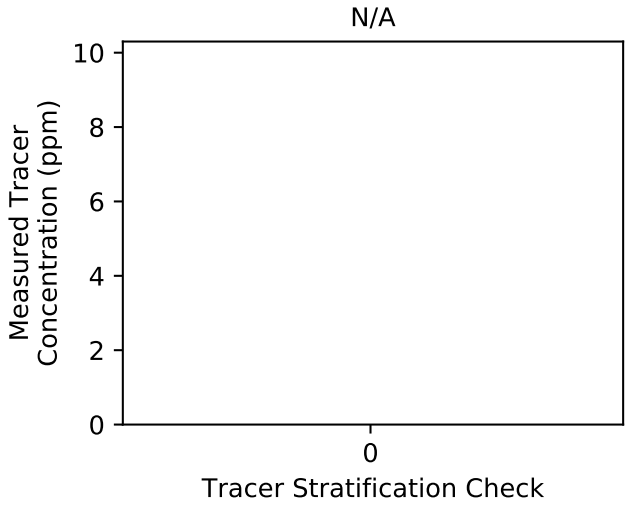


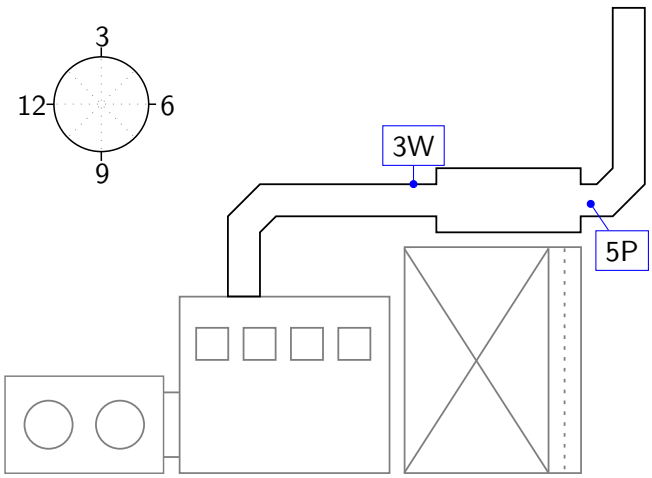


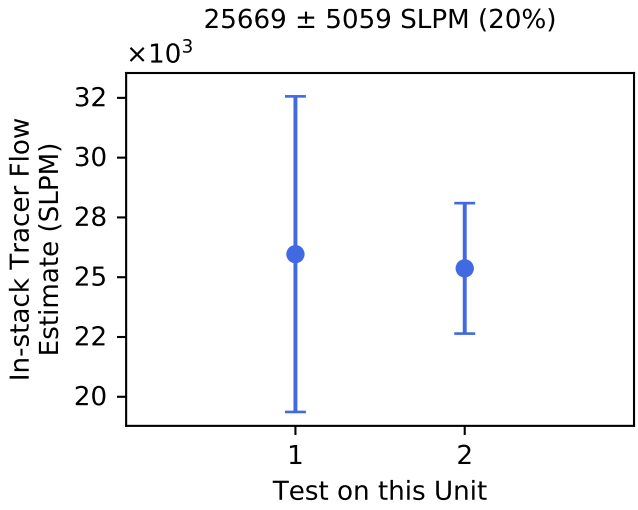
Facility	200
Unit	1
Make	Superior
Model	8G825
Type	4SRB
Rating (hp)	800
Load	-

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	Yes	5P	Multi	Long5Run	15	0.067±0.017	2.6±0.1	377±12	25964±6599	0.4±0.1
2	3W	None	Yes	5P	Multi	Long5Run	15	0.133±0.014	5.2±0.2	380±11	25370±2727	0.4±0.0



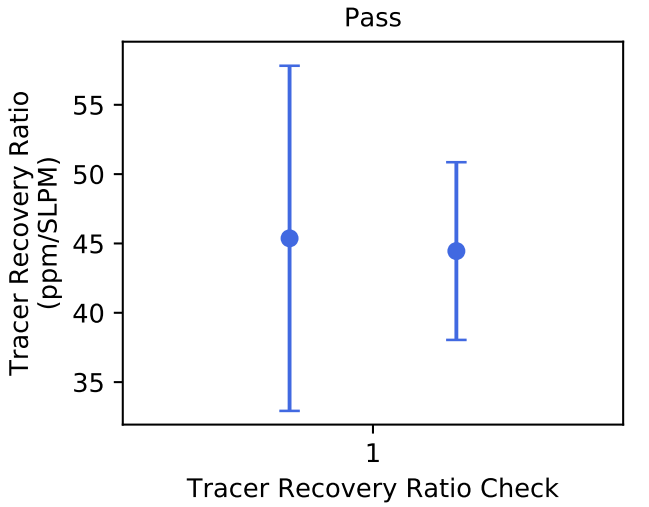


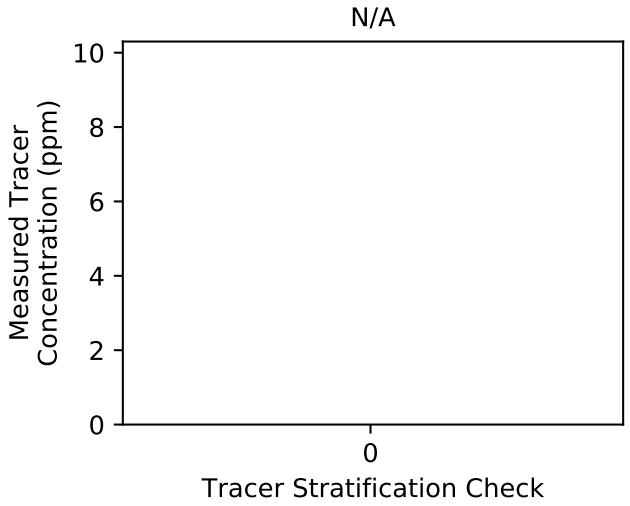


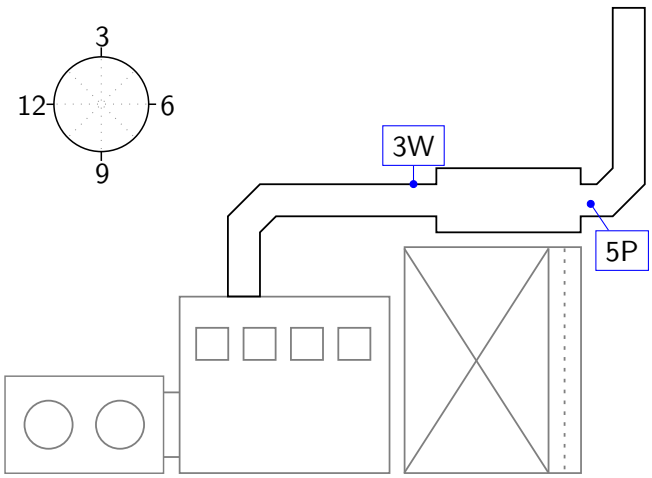


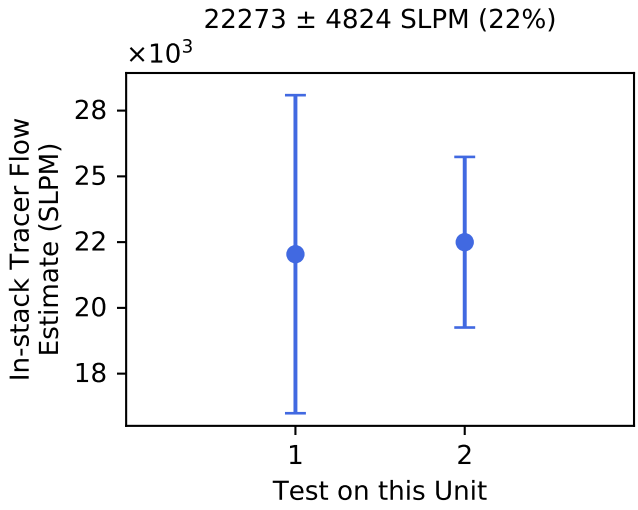
Facility	200
Unit	2
Make	Superior
Model	8G825
Type	4SRB
Rating (hp)	800
Load	-

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	Yes	5P	Multi	Long5Run	10	0.055±0.015	2.5±0.1	443±54	22041±6046	0.4±0.1
2	3W	None	Yes	5P	Multi	Long5Run	10	0.113±0.016	5.0±0.2	443±52	22497±3243	0.4±0.1



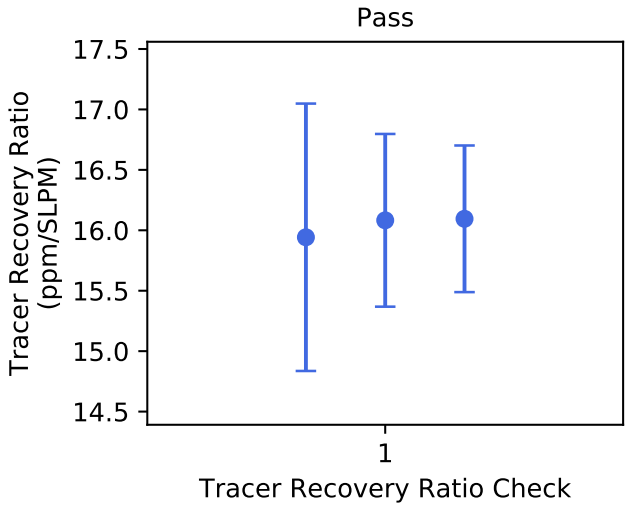


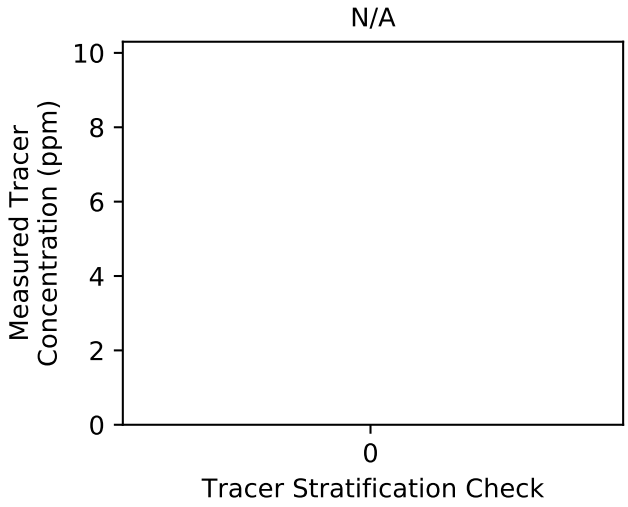


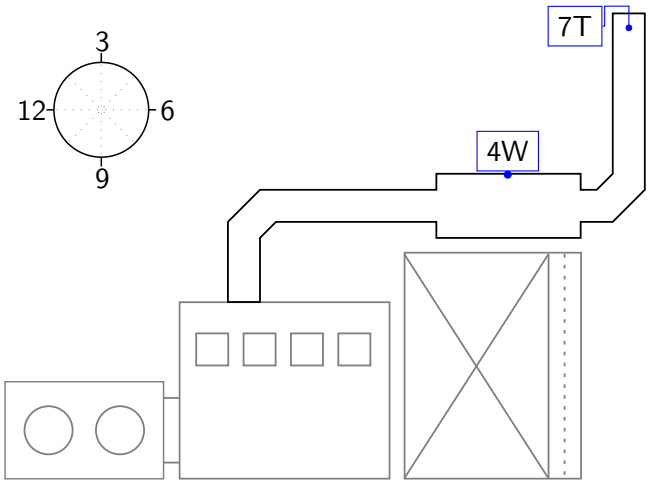


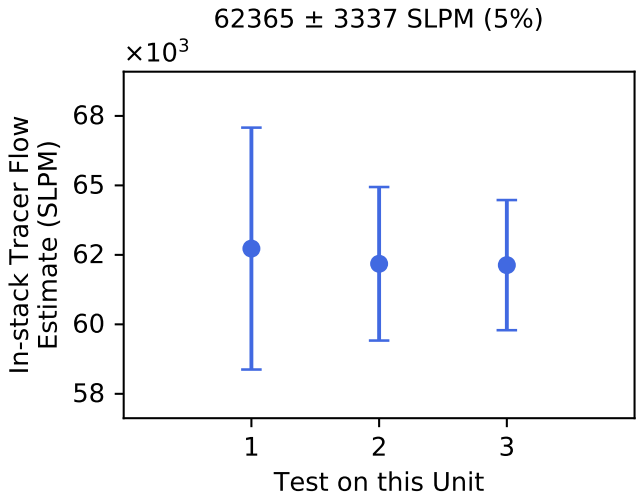
Facility 2785
Unit 1
Make Waukesha
Model L7042GSI
Type 4SRB
Rating (hp) 1400
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4W	None	No	7T	Single	6clock	10	0.168±0.011	2.7±0.1	246±25	62727±4352	0.6±0.1
2	4W	None	No	7T	Single	6clock	10	0.336±0.011	5.4±0.2	233±28	62179±2763	0.6±0.1
3	4W	None	No	7T	Single	6clock	10	0.505±0.012	8.1±0.2	227±30	62131±2342	0.6±0.1



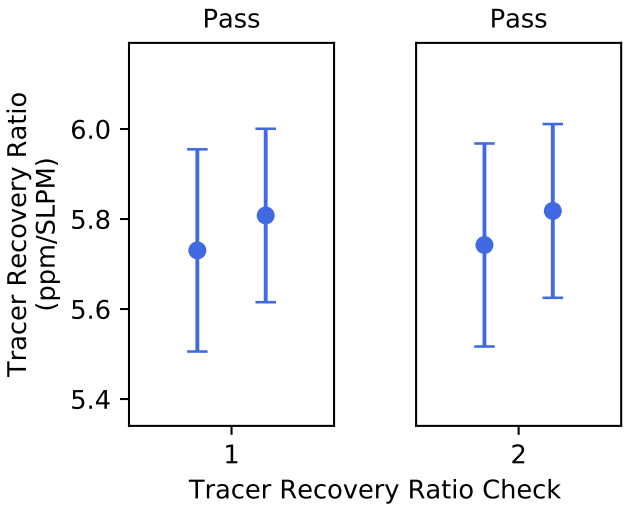


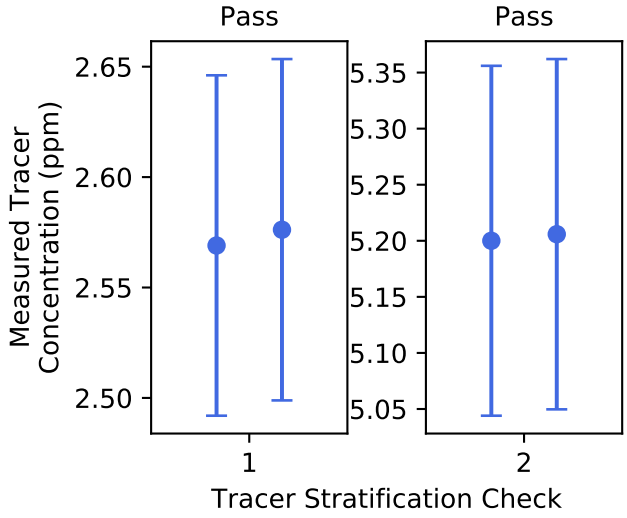


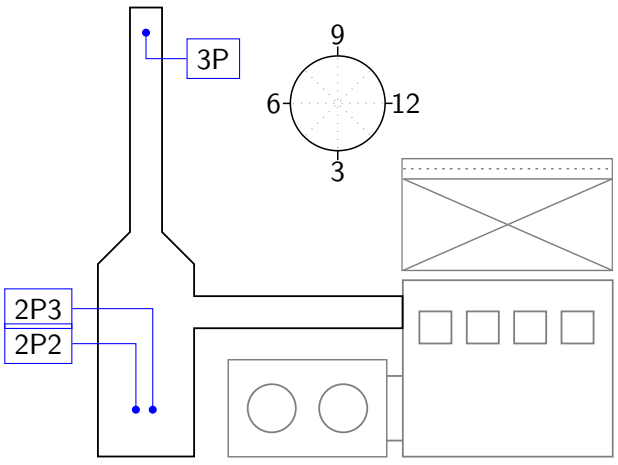


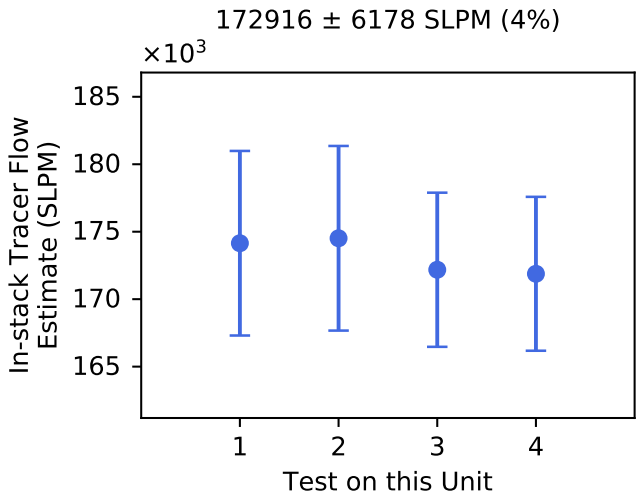
Facility	235
Unit	1
Make	Caterpillar
Model	G3608
Type	4SLB
Rating (hp)	2445
Load	0.97

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P3	Single	No	3P	Multi	6clock	25	0.447±0.011	2.6±0.1	858±26	174146±6840	5.9±0.3
2	2P2	Single	No	3P	Multi	6clock	25	0.450±0.011	2.6±0.1	860±26	174513±6842	5.9±0.3
3	2P2	Single	No	3P	Multi	6clock	25	0.895±0.013	5.2±0.2	860±26	172180±5713	5.8±0.3
4	2P3	Single	No	3P	Multi	6clock	25	0.895±0.013	5.2±0.2	859±26	171881±5703	5.8±0.3



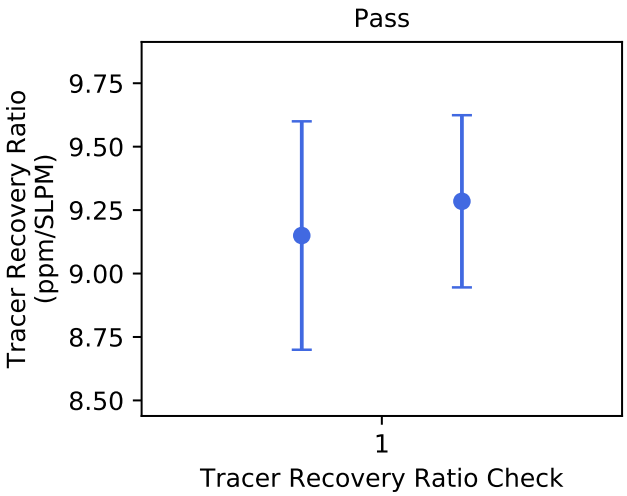


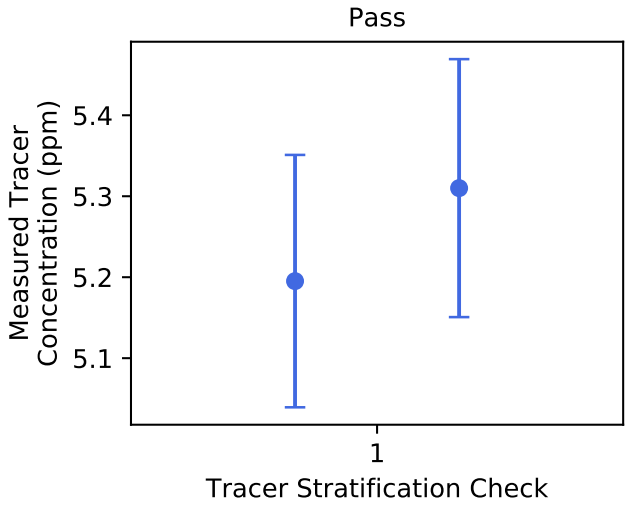


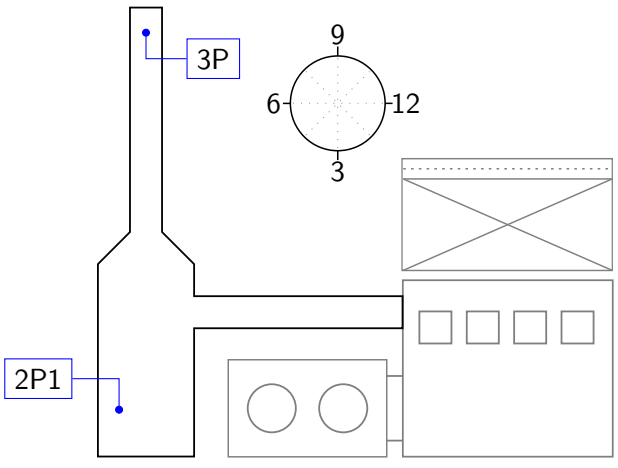


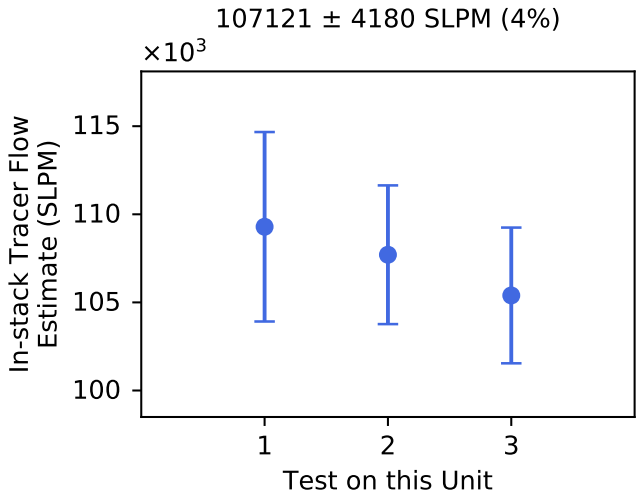
Facility 2575
Unit 1
Make Caterpillar
Model G3606 TALE
Type 4SLB
Rating (hp) 1775
Load 0.93

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P1	Multi	No	3P	Multi	9clock	20	0.278±0.011	2.5±0.1	1867±57	109292±5376	8.0±0.5
2	2P1	Multi	No	3P	Multi	9clock	20	0.560±0.012	5.2±0.2	1884±57	107704±3936	8.0±0.4
3	2P1	Multi	No	3P	Multi	6clock	20	0.560±0.012	5.3±0.2	1894±57	105395±3852	7.9±0.4



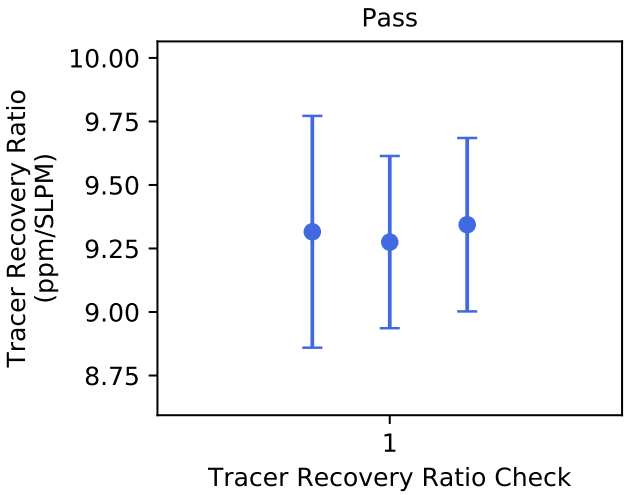


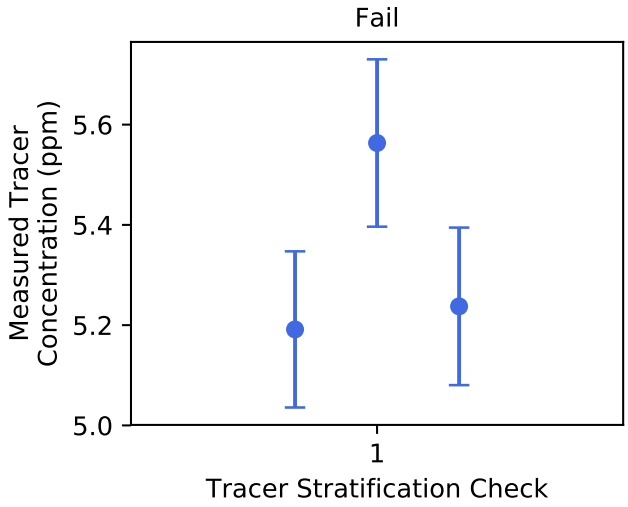


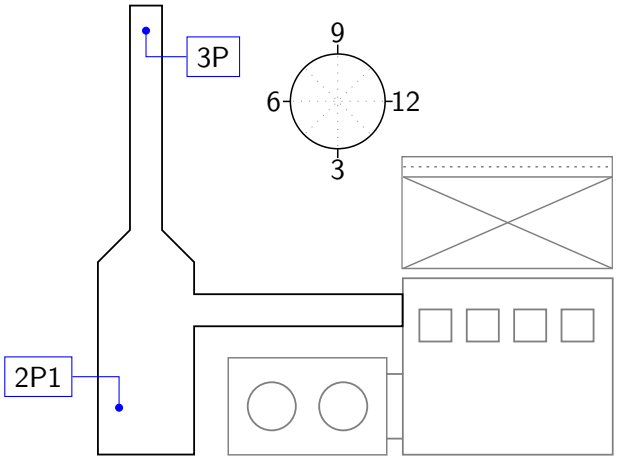


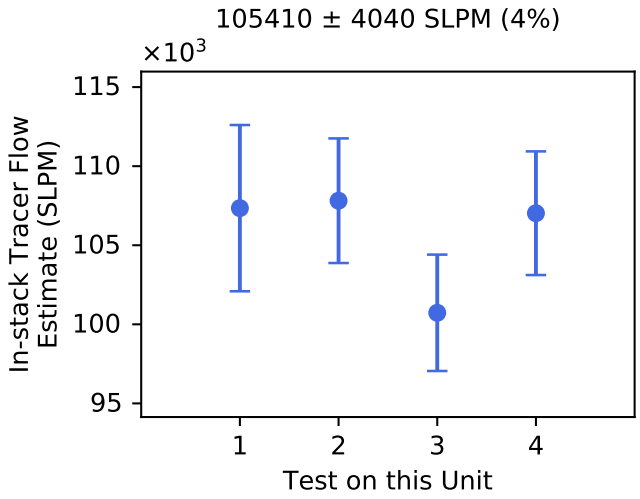
Facility	2575
Unit	2
Make	Caterpillar
Model	G3606 TALE
Type	4SLB
Rating (hp)	1775
Load	0.86

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P1	Multi	No	3P	Multi	9clock	20	0.280±0.011	2.6±0.1	1870±56	107346±5256	7.9±0.5
2	2P1	Multi	No	3P	Multi	9clock	20	0.560±0.012	5.2±0.2	1877±56	107815±3940	8.0±0.4
3	2P1	Multi	No	3P	Multi	6clock	20	0.560±0.012	5.6±0.2	1877±56	100728±3680	7.5±0.4
4	2P1	Multi	No	3P	Multi	9clock	20	0.561±0.012	5.2±0.2	1895±57	107026±3909	8.0±0.4



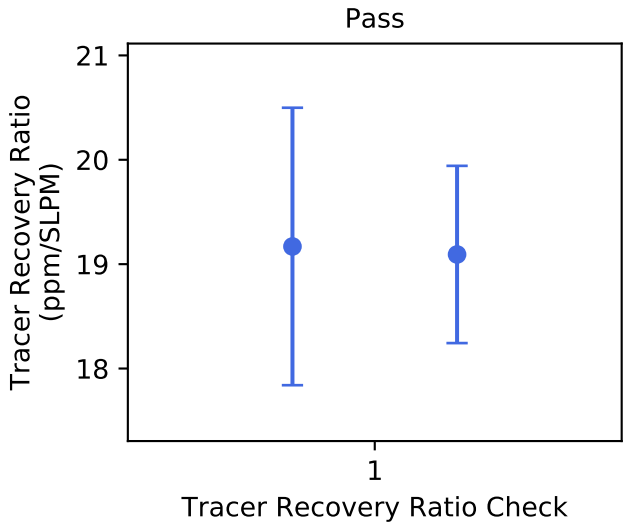


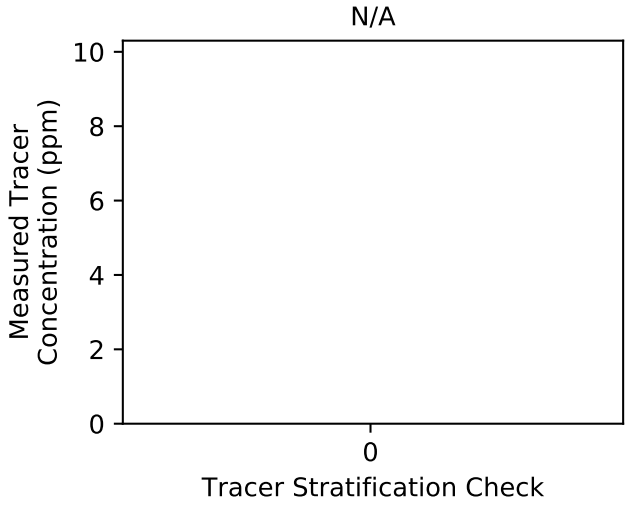


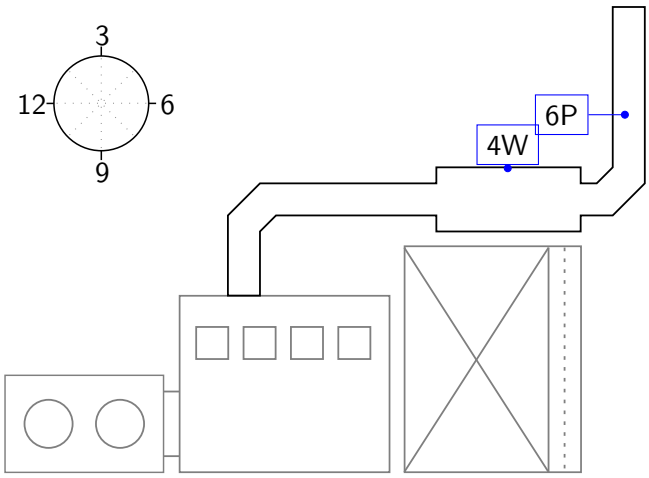


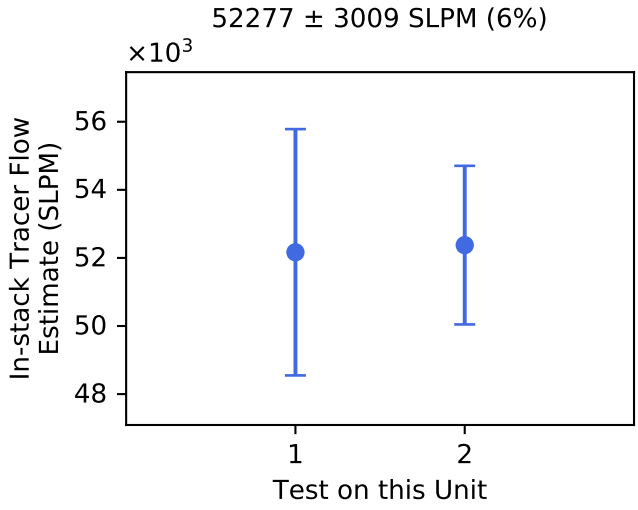
Facility	2736
Unit	1
Make	Waukesha
Model	L7042GSI
Type	4SRB
Rating (hp)	1220
Load	-

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4W	None	Yes	6P	Single	9clock	10	0.168±0.011	3.2±0.1	177±5	52166±3617	0.4±0.0
2	4W	None	Yes	6P	Single	9clock	10	0.335±0.011	6.4±0.2	177±5	52376±2329	0.4±0.0



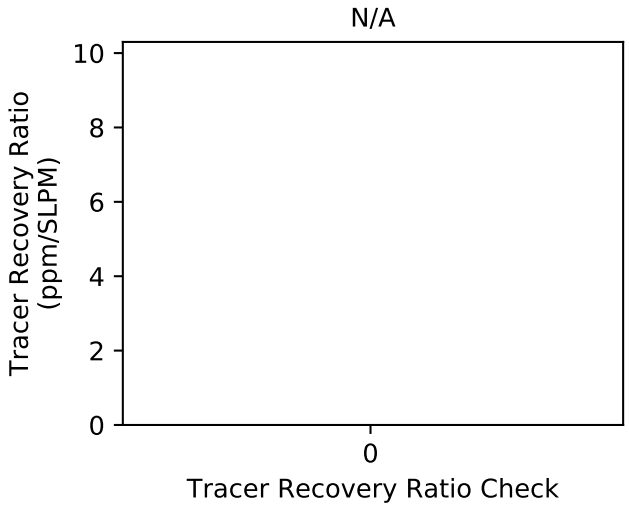


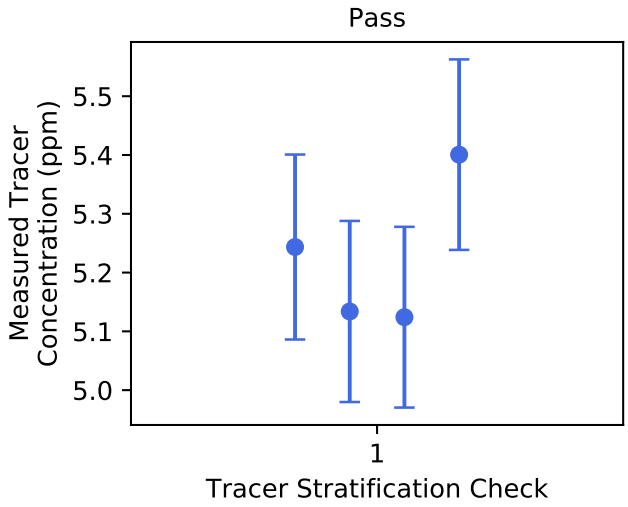


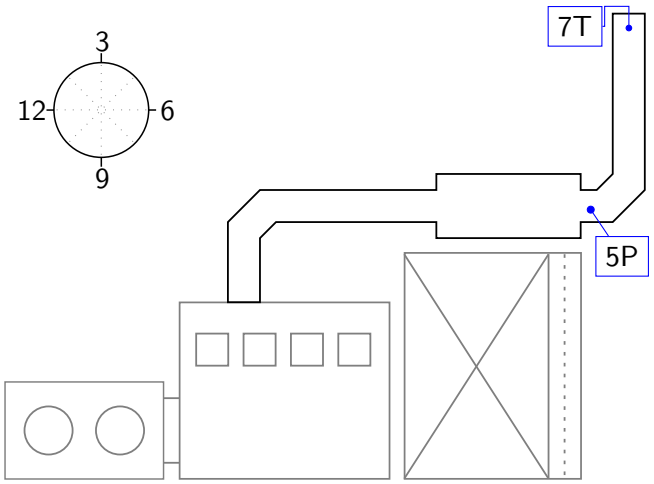


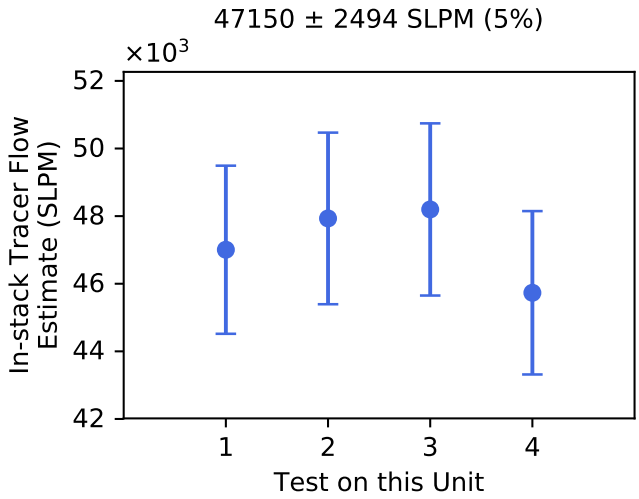
Facility	2773
Unit	1
Make	Waukesha
Model	L7042GSI
Type	4SRB
Rating (hp)	1480
Load	0.70

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	5P	Single	No	7T	Multi	730clock	10	0.246±0.011	5.2±0.2	184±6	47006±2487	0.3±0.0
2	5P	Single	No	7T	Multi	1030clock	10	0.246±0.011	5.1±0.2	188±6	47932±2538	0.4±0.0
3	5P	Single	No	7T	Multi	130clock	10	0.247±0.011	5.1±0.2	191±11	48197±2546	0.4±0.0
4	5P	Single	No	7T	Multi	430clock	10	0.247±0.011	5.4±0.2	202±6	45732±2416	0.4±0.0



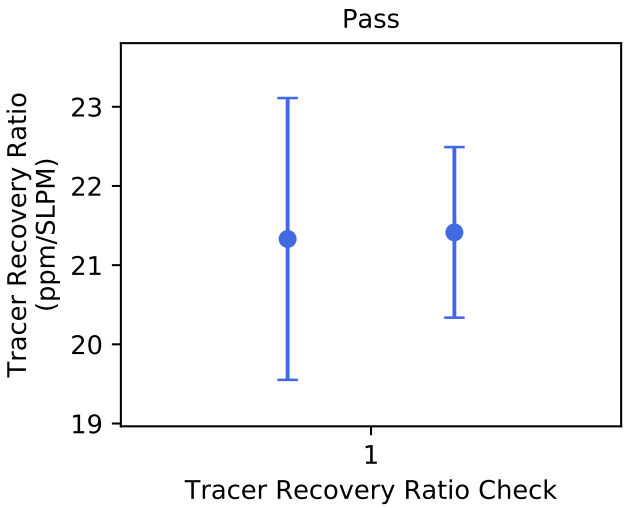


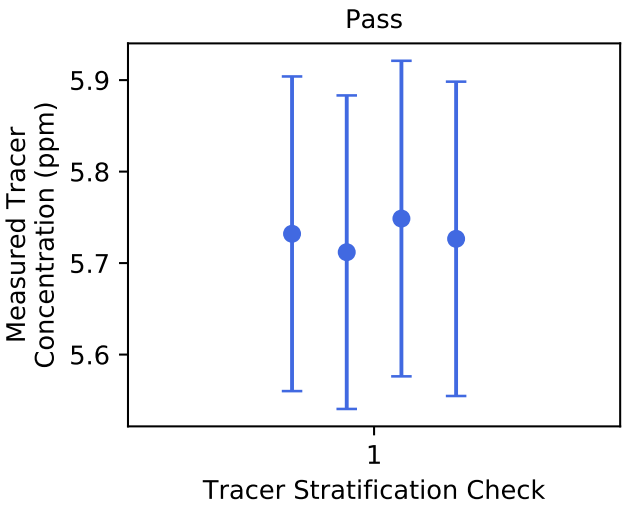


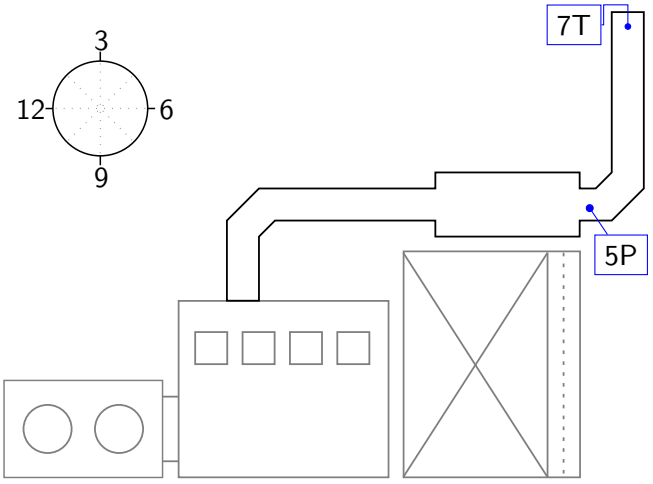


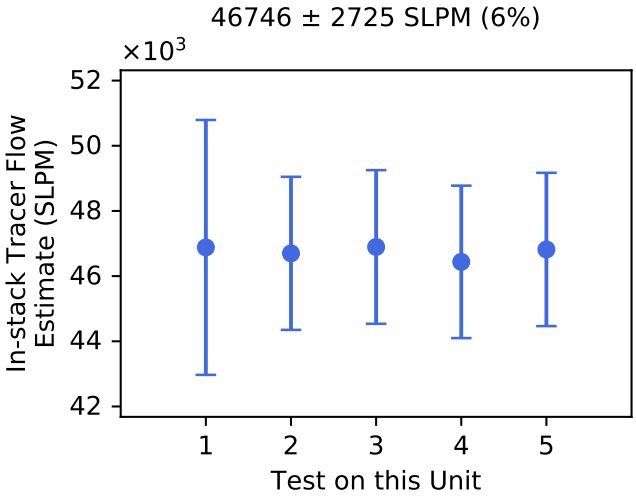
Facility 2773
Unit 2
Make Waukesha
Model L7042GSI
Type 4SRB
Rating (hp) 1480
Load 0.70

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	5P	Single	No	7T	Multi	6clock	10	0.134±0.010	2.9±0.1	207±11	46881±3911	0.4±0.0
2	5P	Single	No	7T	Multi	6clock	10	0.268±0.011	5.7±0.2	210±13	46699±2348	0.4±0.0
3	5P	Single	No	7T	Multi	3clock	10	0.268±0.011	5.7±0.2	207±12	46895±2357	0.4±0.0
4	5P	Single	No	7T	Multi	12clock	10	0.267±0.011	5.7±0.2	215±11	46437±2339	0.4±0.0
5	5P	Single	No	7T	Multi	9clock	10	0.268±0.011	5.7±0.2	218±12	46818±2352	0.4±0.0



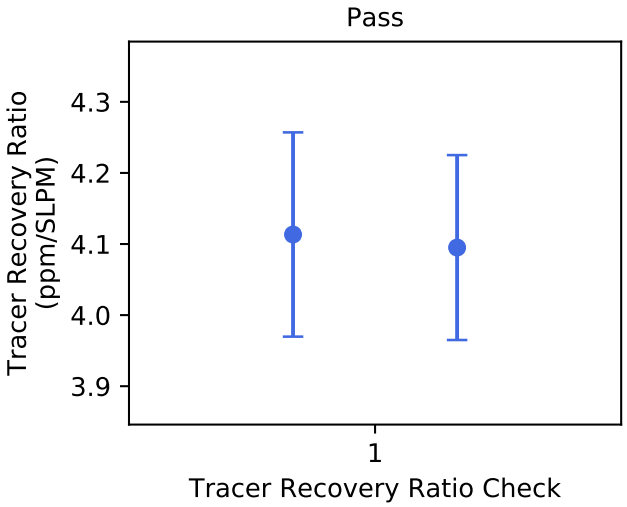


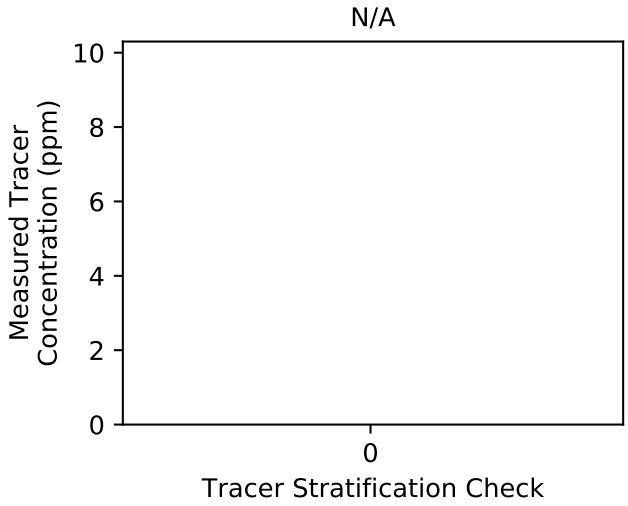


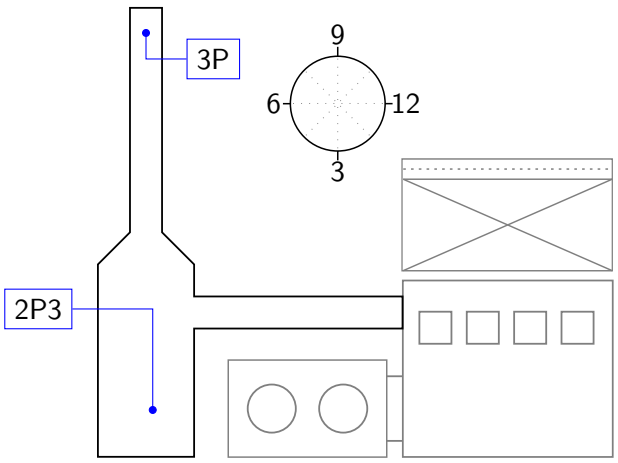


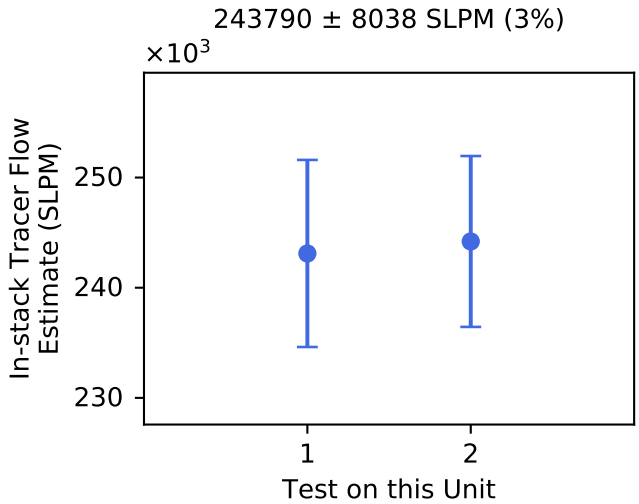
Facility	2551
Unit	1
Make	Caterpillar
Model	G3612
Type	4SLB
Rating (hp)	3665
Load	1.00

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P3	Single	No	3P	Multi	6clock	25	0.672±0.012	2.8±0.1	1312±39	243109±8491	12.6±0.6
2	2P3	Single	No	3P	Multi	6clock	25	1.346±0.014	5.5±0.2	1308±39	244199±7756	12.6±0.6



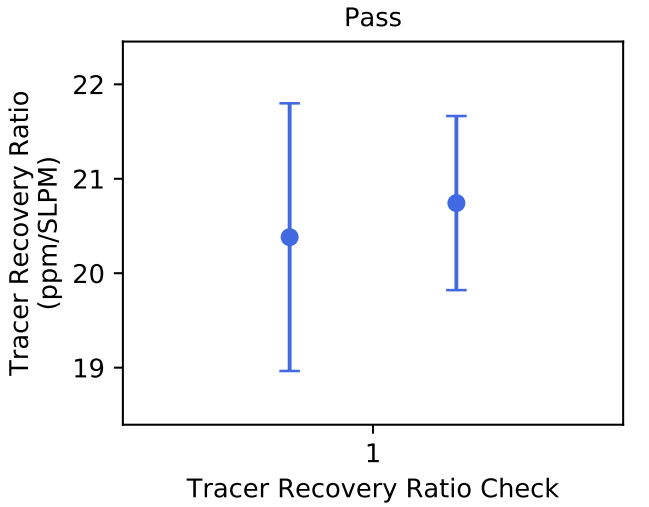


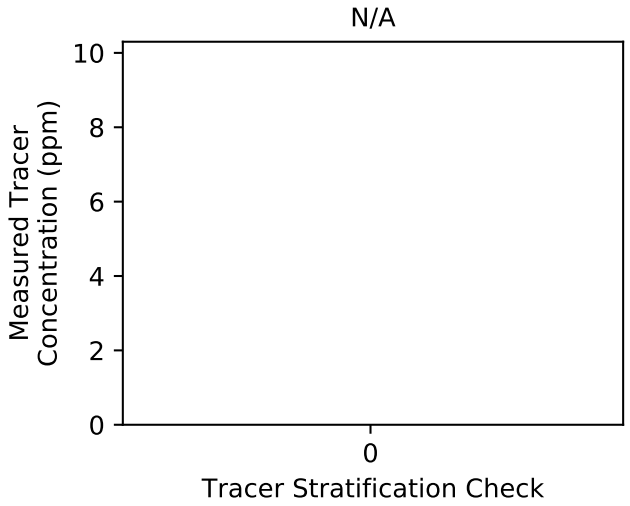


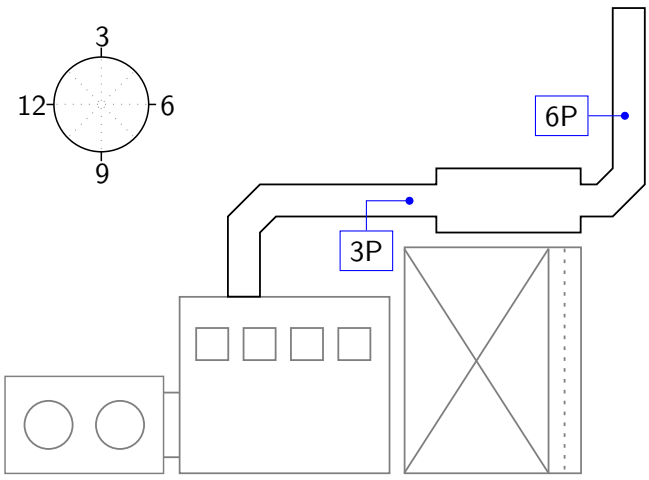


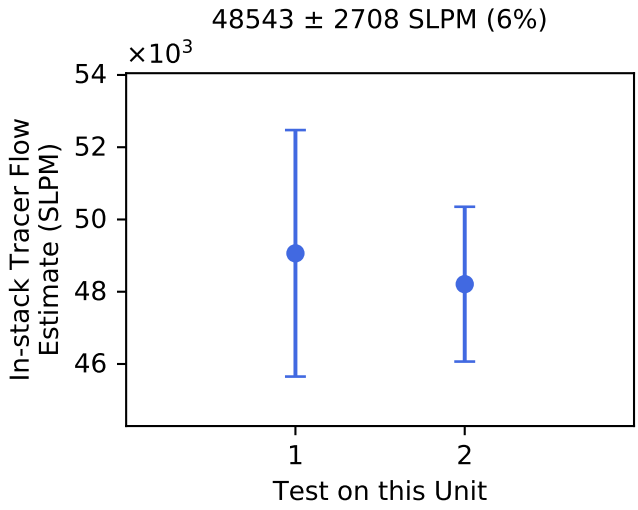
Facility 1315
Unit 1
Make Waukesha
Model L7042GSI
Type 4SRB
Rating (hp) 1480
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3P	Multi	No	6P	Multi	6clock	6	0.167±0.011	3.4±0.1	195±13	49063±3411	0.4±0.0
2	3P	Multi	No	6P	Multi	6clock	6	0.336±0.011	7.0±0.2	178±13	48210±2142	0.3±0.0



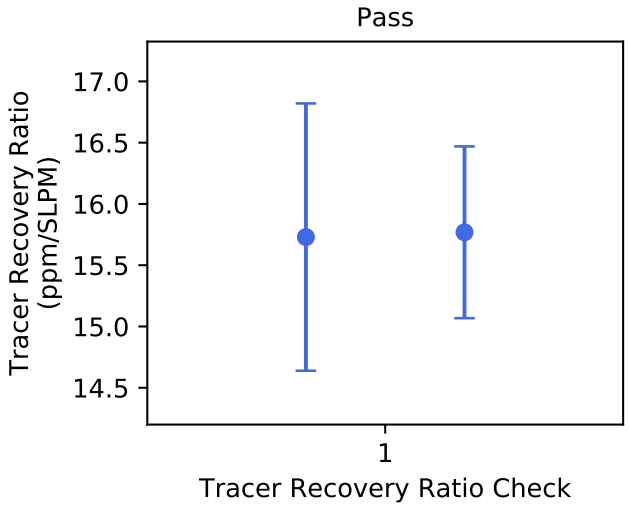


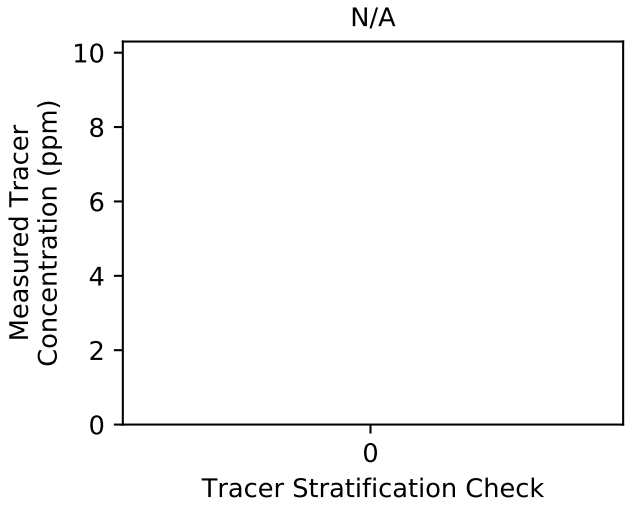


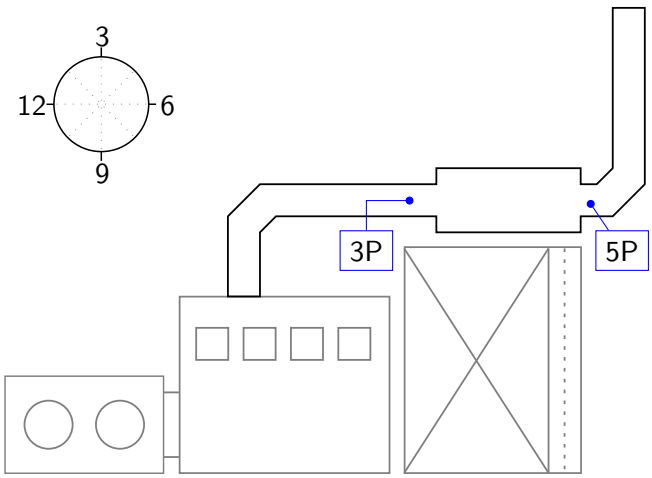


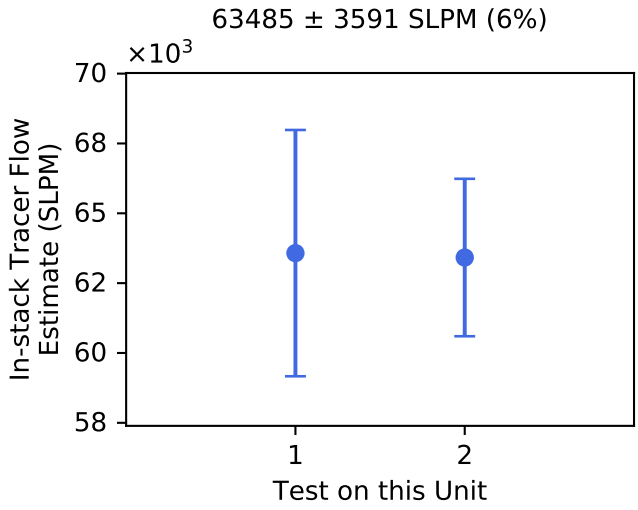
Facility 1315
Unit 2
Make Caterpillar
Model G3516
Type 4SLB
Rating (hp) 1340
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3P	Multi	No	5P	Multi	6clock	6	0.168±0.011	2.6±0.1	709±21	63574±4408	1.8±0.1
2	3P	Multi	No	5P	Multi	6clock	6	0.336±0.011	5.3±0.2	711±21	63417±2818	1.8±0.1



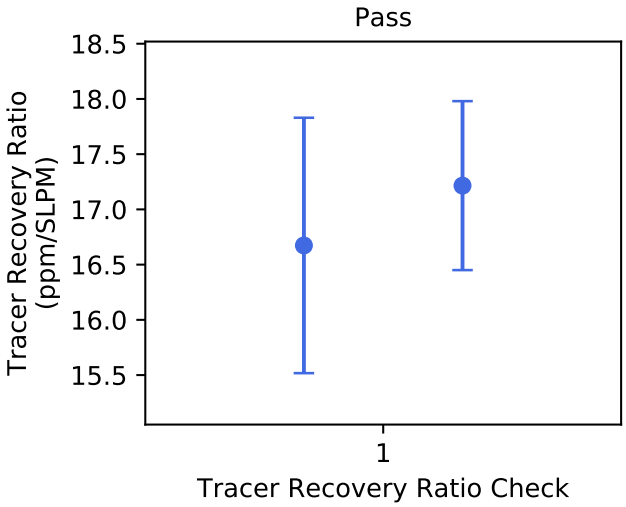


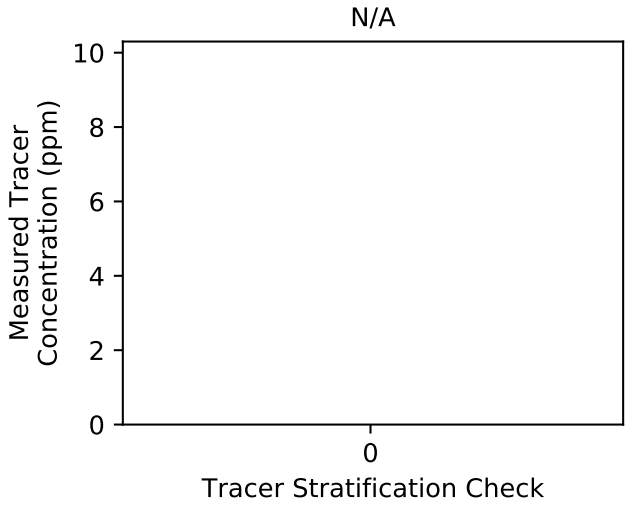


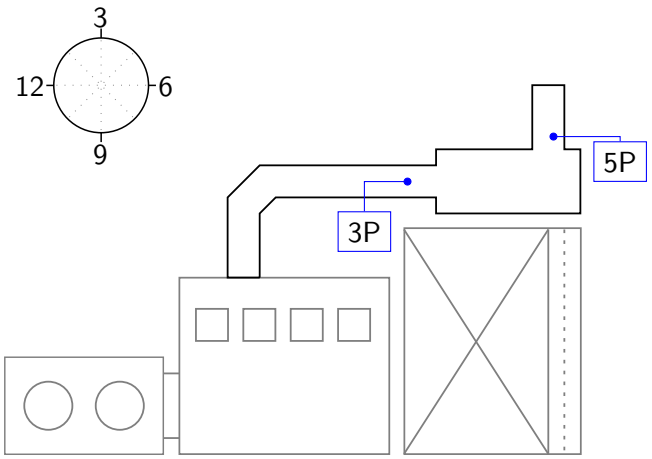


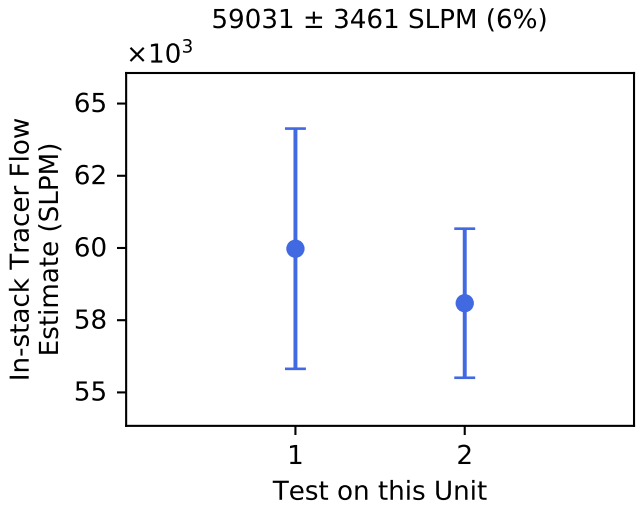
Facility 1315
Unit 3
Make Caterpillar
Model G3516
Type 4SLB
Rating (hp) 1340
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3P	Multi	No	5P	Multi	6clock	6	0.168±0.011	2.8±0.1	448±13	59975±4159	1.1±0.1
2	3P	Multi	No	5P	Multi	6clock	6	0.336±0.011	5.8±0.2	453±14	58088±2581	1.0±0.1



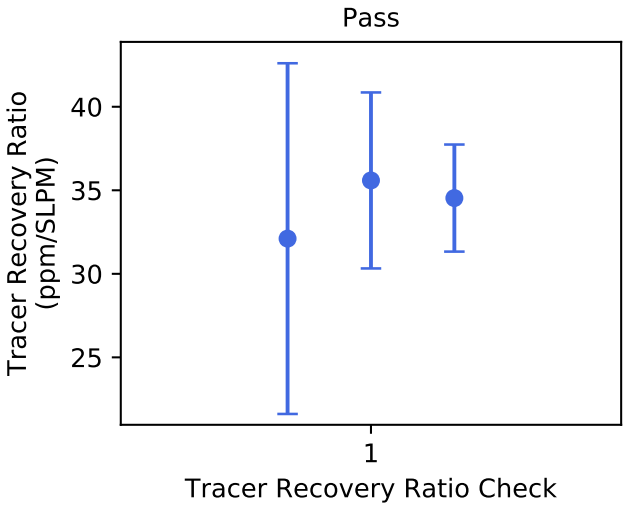


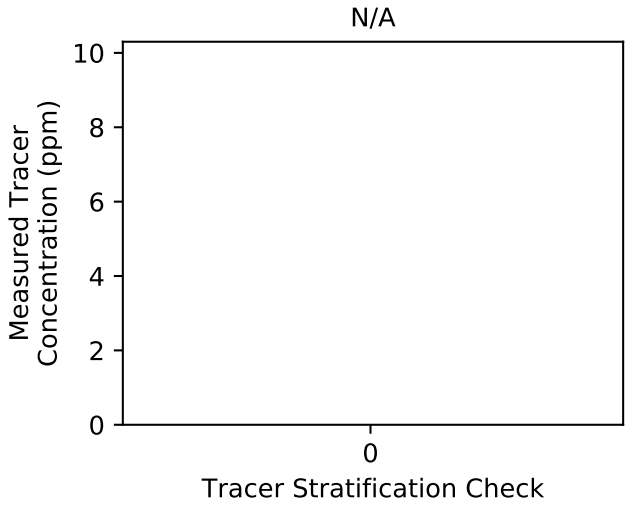


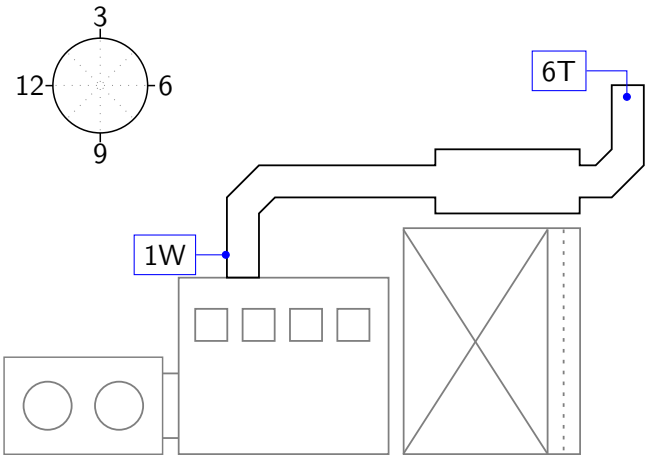


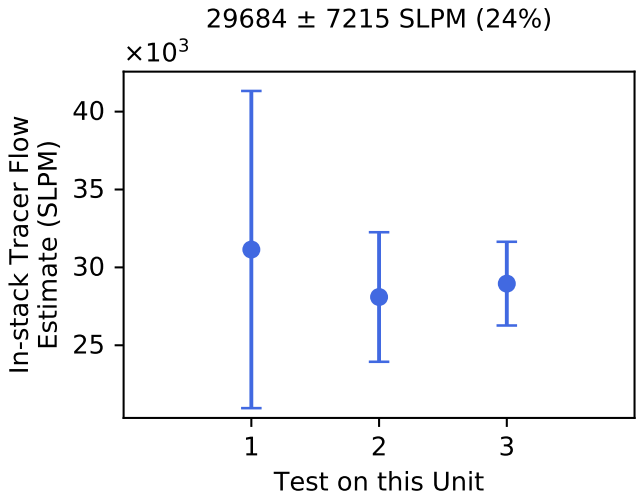
Facility 1875
Unit 1
Make Caterpillar
Model G3508 TA
Type 4SLB
Rating (hp) 630
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	1W	None	No	6T	MultiTee	3clock	20	0.056±0.018	1.8±0.1	967±51	31145±10181	1.2±0.4
2	1W	None	No	6T	MultiTee	3clock	20	0.111±0.015	3.9±0.2	811±82	28098±4158	0.9±0.2
3	1W	None	No	6T	MultiTee	3clock	20	0.202±0.014	7.0±0.4	865±65	28957±2687	1.0±0.1



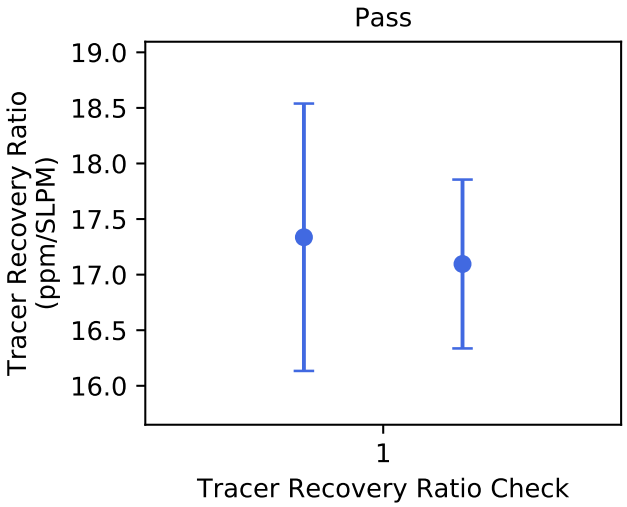


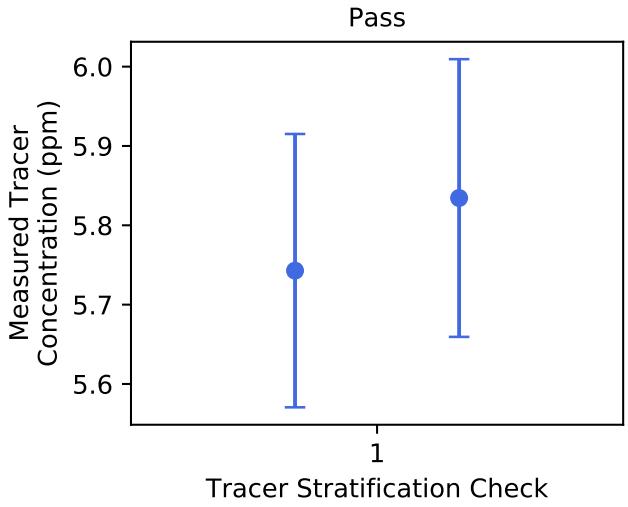


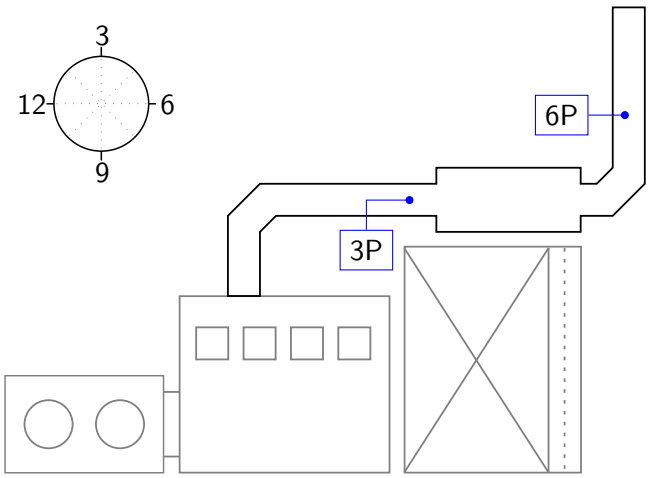


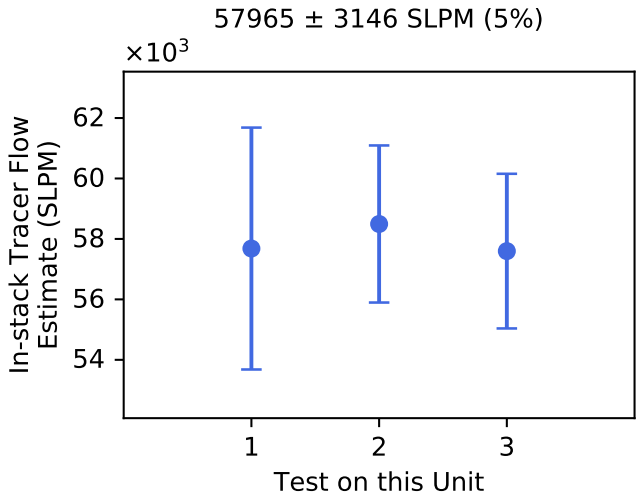
Facility	2973
Unit	1
Make	Waukesha
Model	L7042GSI
Type	4SRB
Rating (hp)	1473
Load	0.88

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3P	Single	No	6P	Multi	9clock	12	0.168±0.011	2.9±0.1	30±6	57682±4002	0.1±0.0
2	3P	Single	No	6P	Multi	9clock	12	0.336±0.011	5.7±0.2	32±6	58494±2599	0.1±0.0
3	3P	Single	No	6P	Multi	12clock	12	0.336±0.011	5.8±0.2	31±6	57597±2558	0.1±0.0



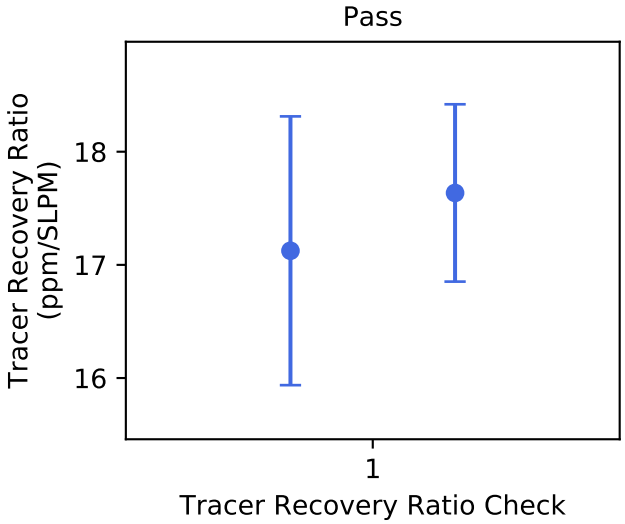


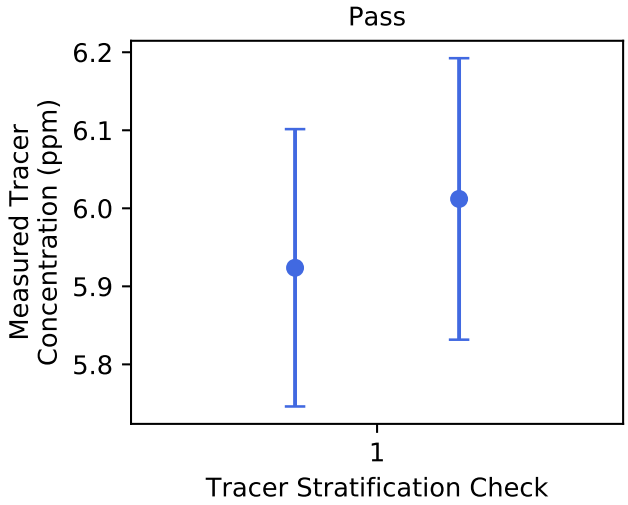


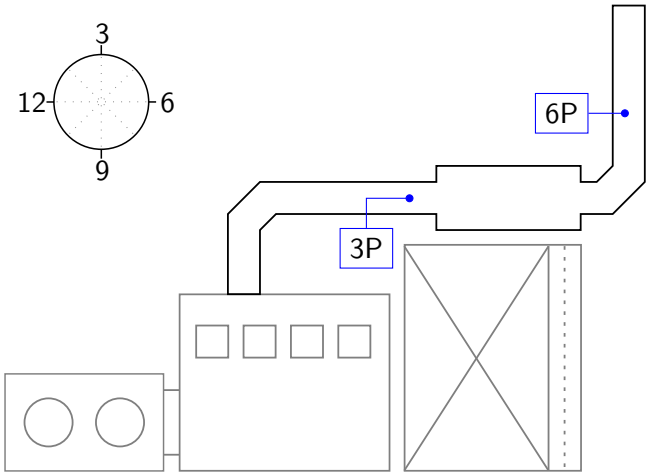


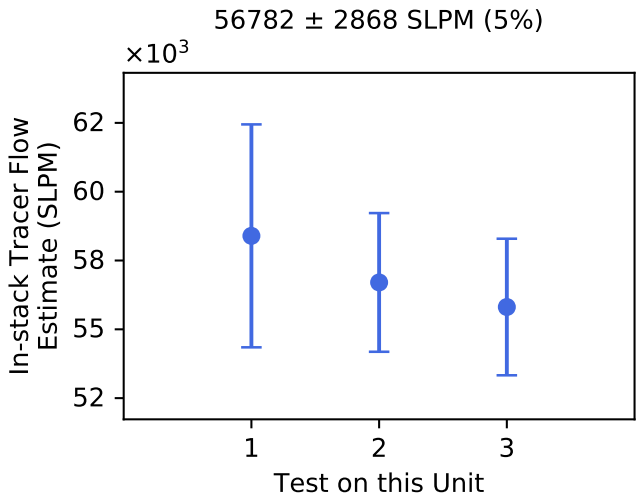
Facility	2973
Unit	2
Make	Waukesha
Model	L7042GSI
Type	4SRB
Rating (hp)	1473
Load	0.87

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3P	Single	No	6P	Multi	9clock	12	0.168±0.011	2.9±0.1	16±3	58395±4050	0.0±0.0
2	3P	Single	No	6P	Multi	9clock	12	0.336±0.011	5.9±0.2	18±4	56704±2519	0.0±0.0
3	3P	Single	No	6P	Multi	12clock	12	0.336±0.011	6.0±0.2	16±3	55811±2481	0.0±0.0



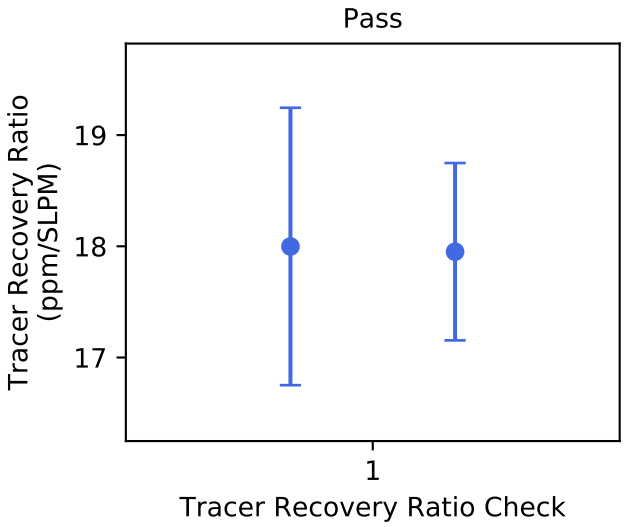


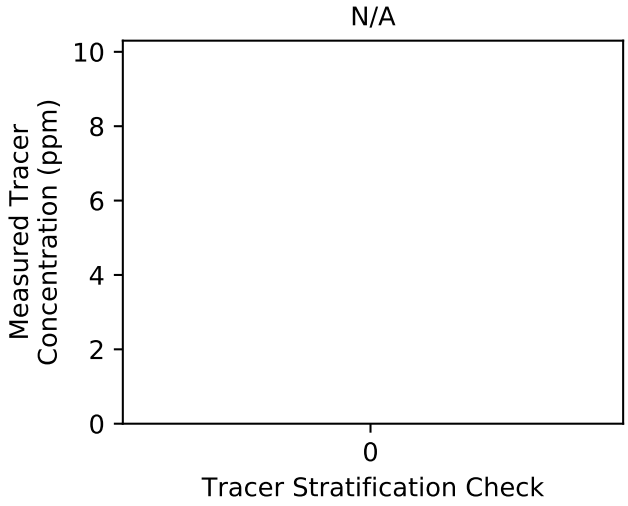


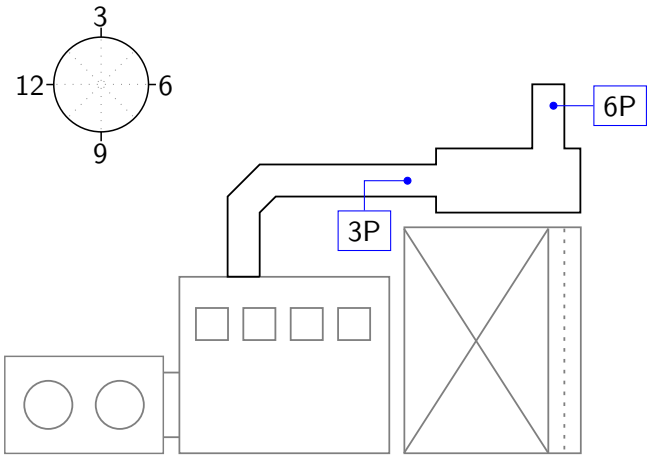


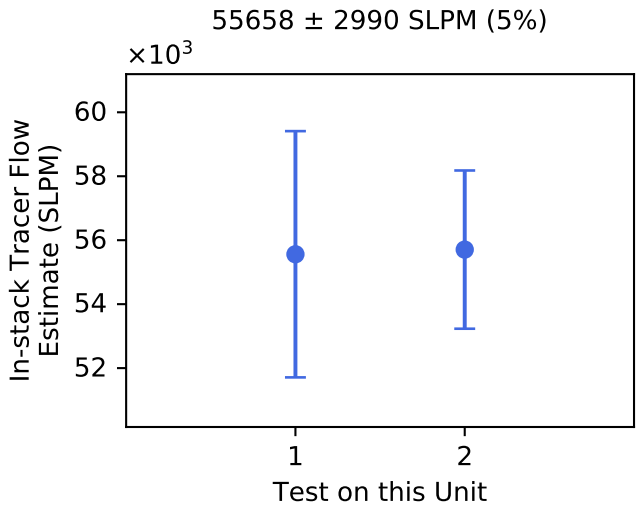
Facility	2973
Unit	3
Make	Waukesha
Model	L7042GSI
Type	4SRB
Rating (hp)	1473
Load	0.89

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3P	Single	No	6P	Multi	1030clock	8	0.168±0.011	3.0±0.1	18±5	55560±3850	0.0±0.0
2	3P	Single	No	6P	Multi	1030clock	8	0.336±0.011	6.0±0.2	21±6	55706±2474	0.0±0.0



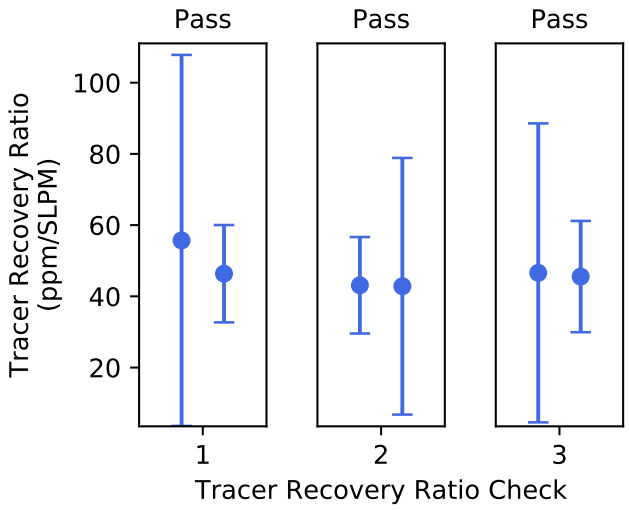


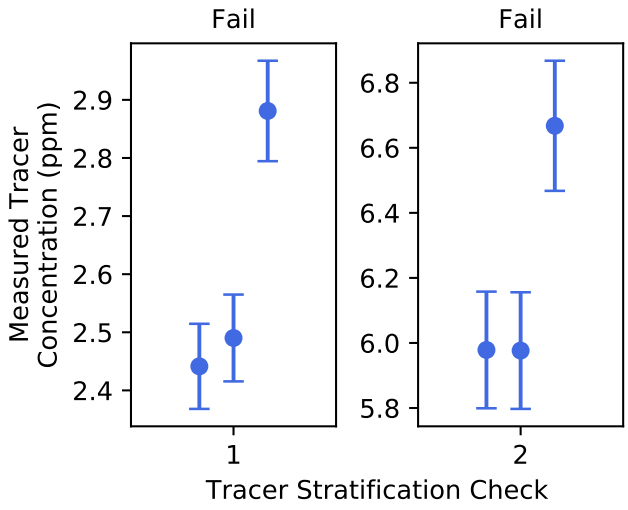


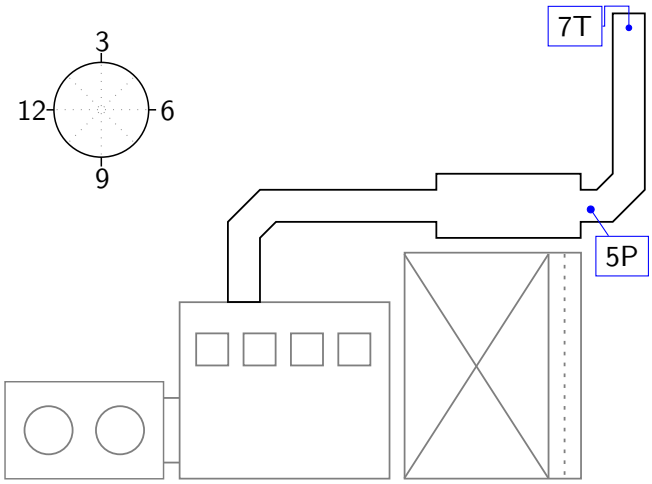


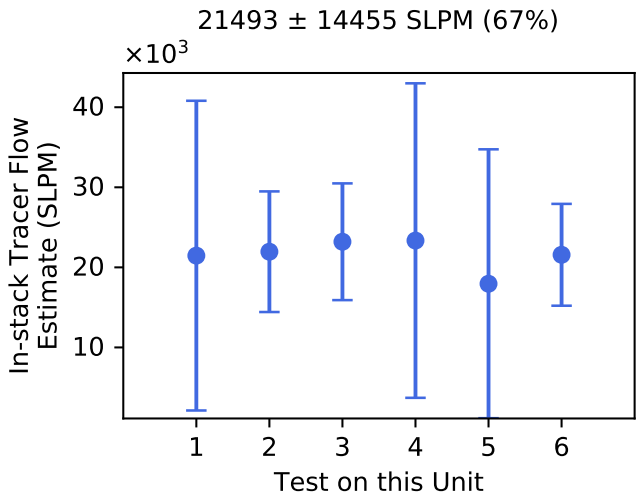
Facility	1834
Unit	1
Make	Superior
Model	8G825
Type	4SRB
Rating (hp)	800
Load	-

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	5P	Multi	No	7T	Single	730clock	6	0.052±0.047	2.4±0.1	113±10	21465±19341	0.1±0.1
2	5P	Multi	No	7T	Single	730clock	6	0.131±0.045	6.0±0.2	118±12	21954±7533	0.1±0.0
3	5P	Multi	No	7T	Single	430clock	6	0.139±0.043	6.0±0.2	116±9	23199±7290	0.1±0.0
4	5P	Multi	No	7T	Single	430clock	6	0.058±0.049	2.5±0.1	122±13	23346±19640	0.1±0.1
5	5P	Multi	No	7T	Single	12clock	6	0.052±0.048	2.9±0.1	174±34	17953±16791	0.1±0.1
6	5P	Multi	No	7T	Single	12clock	6	0.144±0.042	6.7±0.2	141±30	21570±6359	0.1±0.0



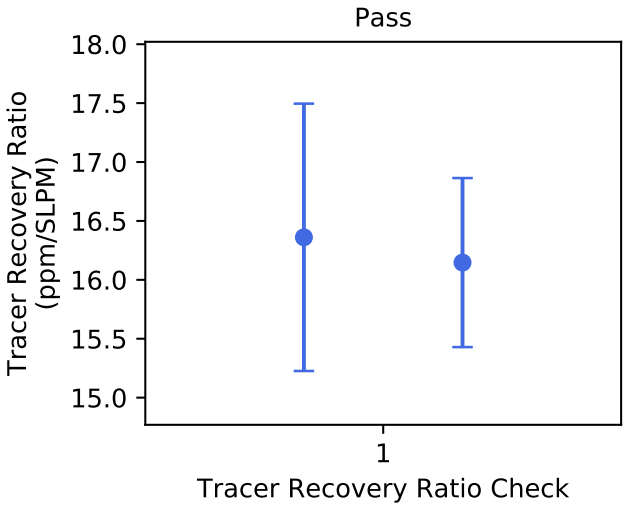


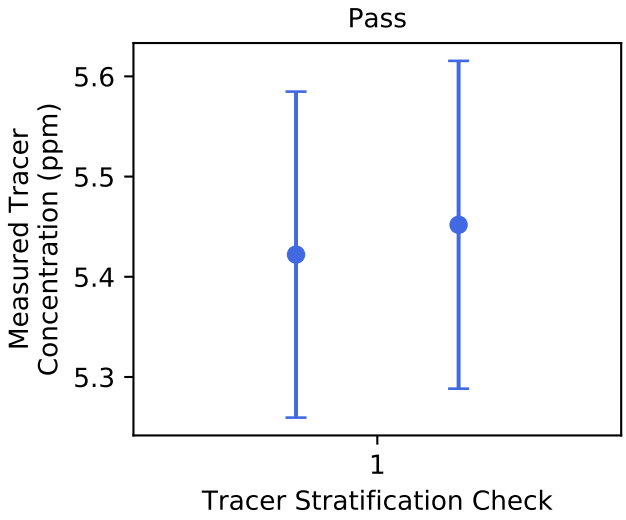


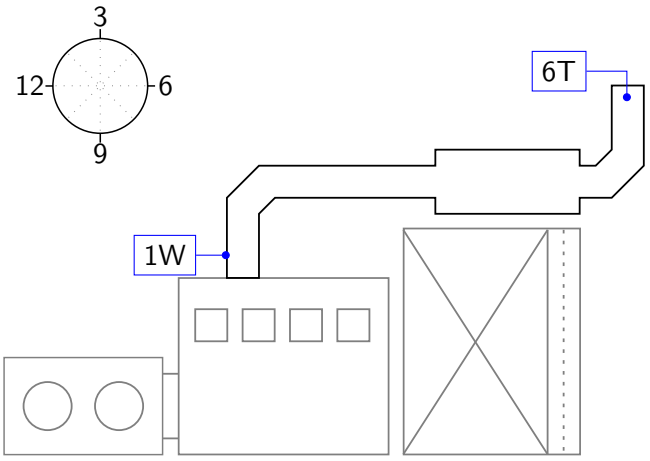


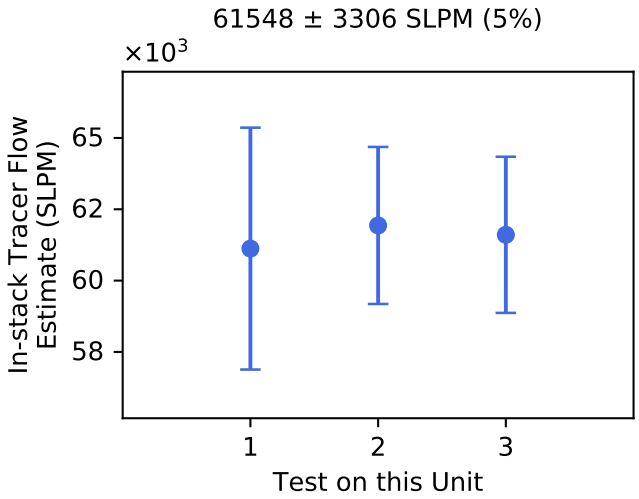
Facility 1610
Unit 1
Make Caterpillar
Model G3516 TALE
Type 4SLB
Rating (hp) 1340
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	1W	None	No	6T	Multi	6clock	18	0.168±0.011	2.7±0.1	311±10	61121±4239	0.7±0.1
2	1W	None	No	6T	Multi	6clock	18	0.336±0.011	5.4±0.2	326±10	61933±2752	0.8±0.0
3	1W	None	No	6T	Multi	3clock	18	0.336±0.011	5.5±0.2	314±9	61605±2737	0.8±0.0



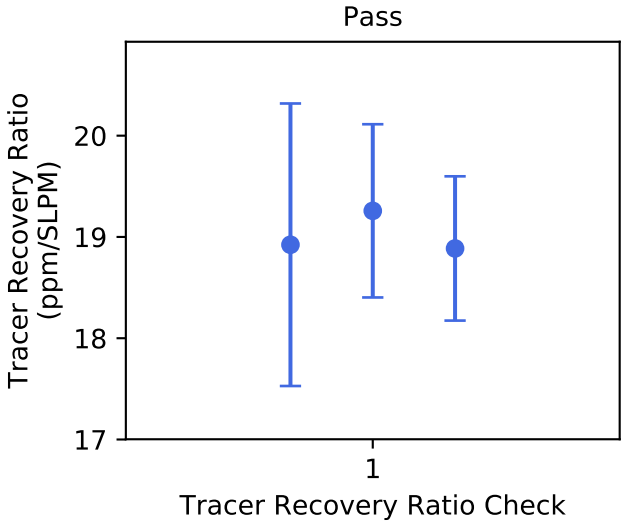


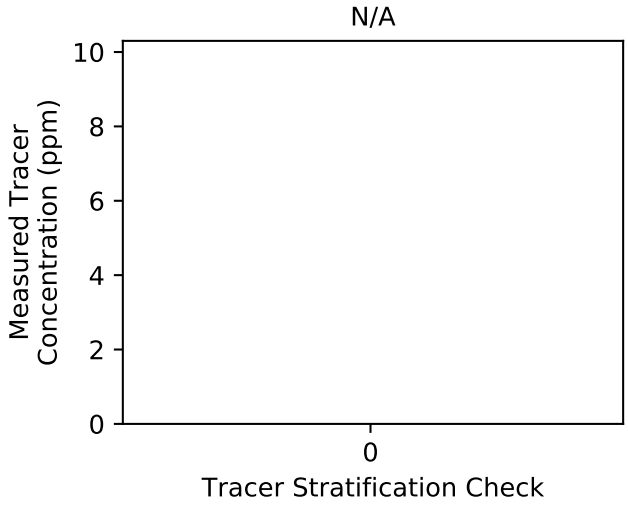


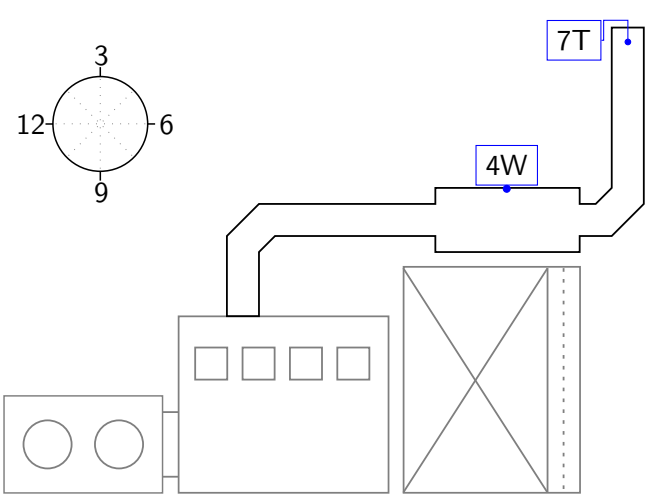


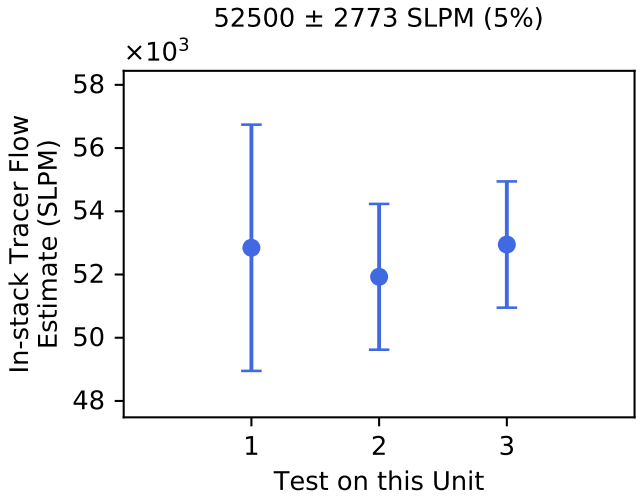
Facility 1660
Unit 1
Make Waukesha
Model L7042GL
Type 4SLB
Rating (hp) 1480
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	4W	None	No	7T	Single	730clock	12	0.167±0.011	3.2±0.1	151±21	52846±3895	0.3±0.0
2	4W	None	No	7T	Single	730clock	12	0.336±0.011	6.5±0.2	166±25	51927±2306	0.3±0.1
3	4W	None	No	7T	Single	730clock	12	0.504±0.012	9.5±0.3	145±17	52948±1997	0.3±0.0



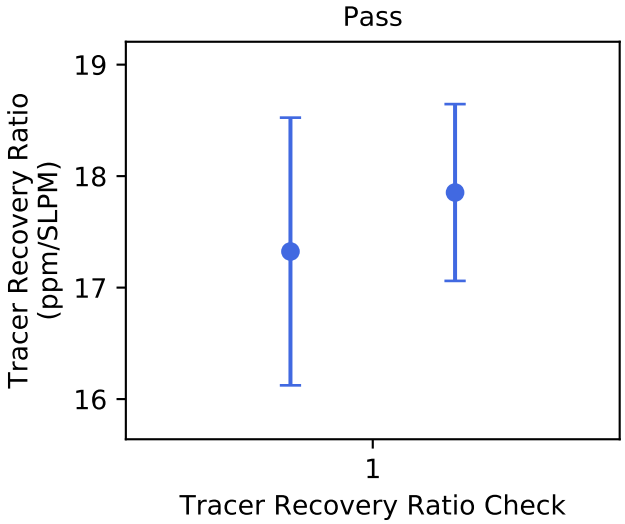


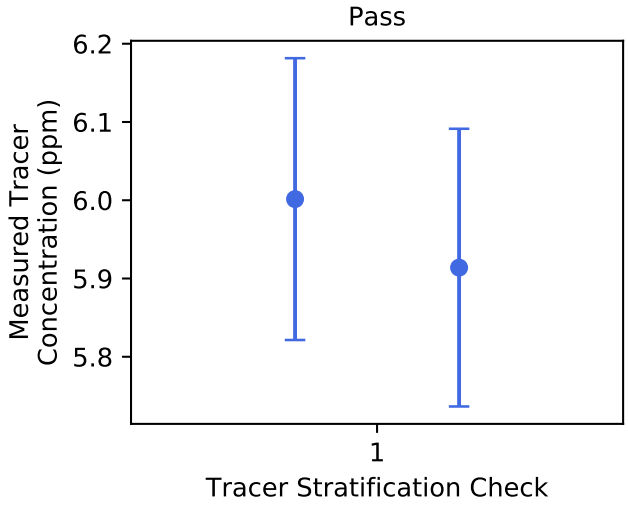


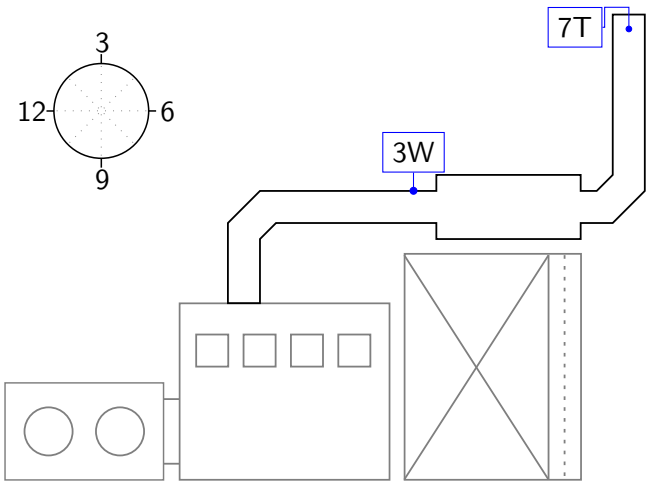


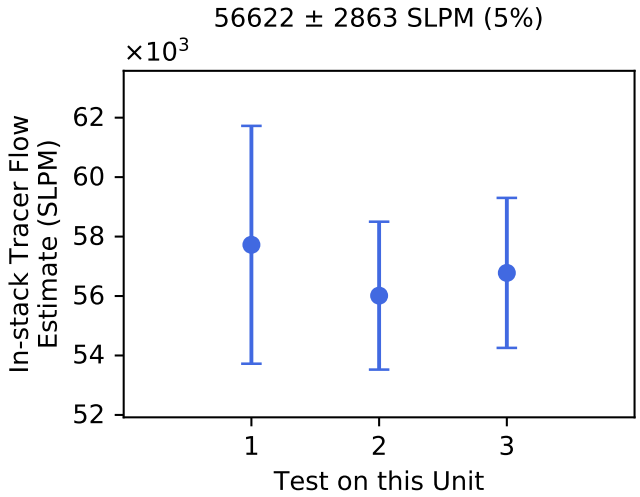
Facility 691
Unit 1
Make Waukesha
Model L7044GSI ESM
Type 4SRB
Rating (hp) 1680
Load 0.83

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	Yes	7T	Multi	9clock	10	0.168±0.011	2.9±0.1	140±14	57723±4000	0.3±0.0
2	3W	None	Yes	7T	Multi	9clock	10	0.336±0.011	6.0±0.2	156±15	56013±2488	0.3±0.0
3	3W	None	Yes	7T	Multi	6clock	10	0.336±0.011	5.9±0.2	164±27	56778±2523	0.4±0.1



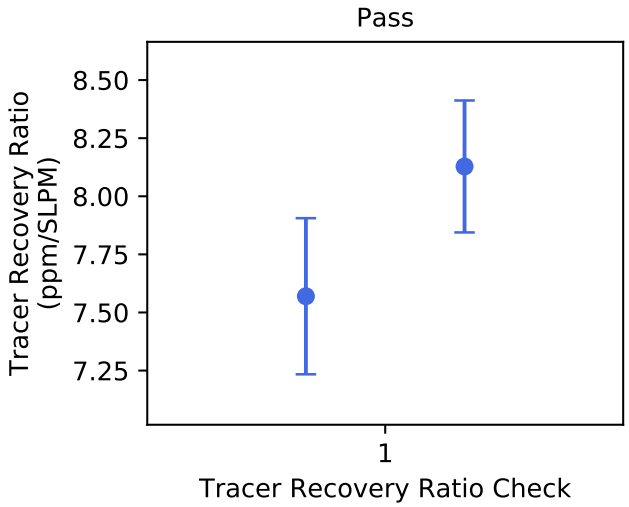


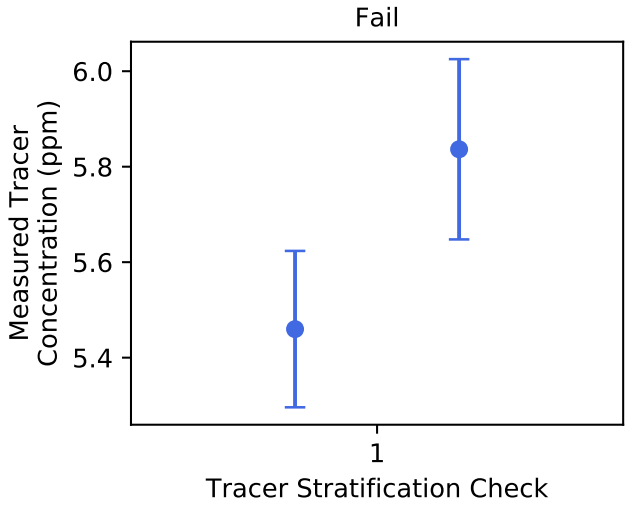


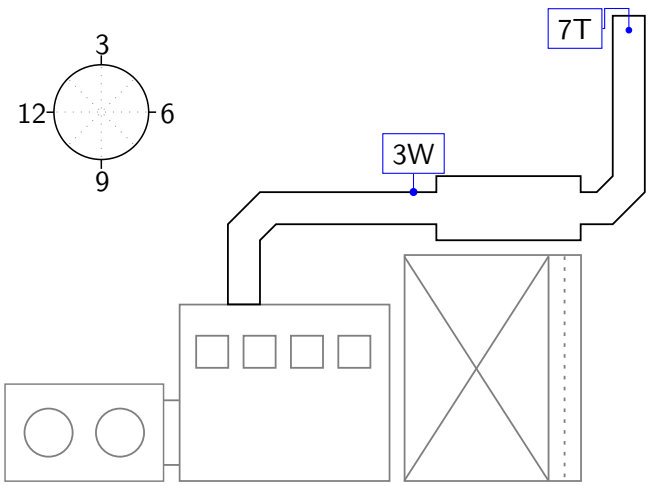


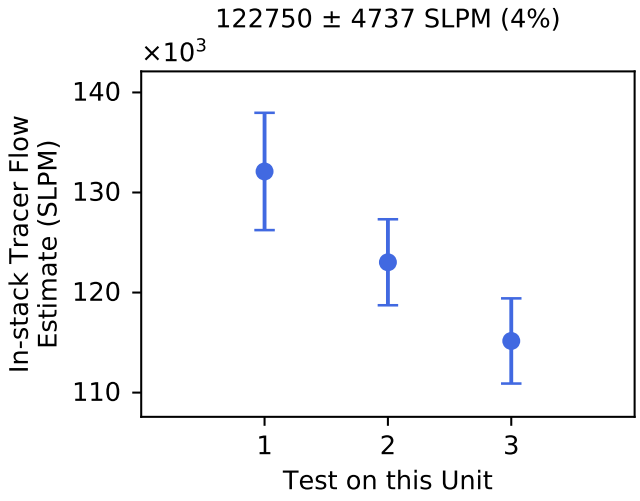
Facility	691
Unit	2
Make	Caterpillar
Model	G3606 A4
Type	4SLB
Rating (hp)	1875
Load	0.85

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	3W	None	Yes	7T	Multi	6clock	10	0.337±0.011	2.5±0.1	870±26	132103±5862	4.5±0.2
2	3W	None	Yes	7T	Multi	6clock	10	0.672±0.012	5.5±0.2	872±26	123027±4297	4.2±0.2
3	3W	None	Yes	7T	Multi	9clock	10	0.672±0.012	5.8±0.2	882±26	115162±4257	4.0±0.2



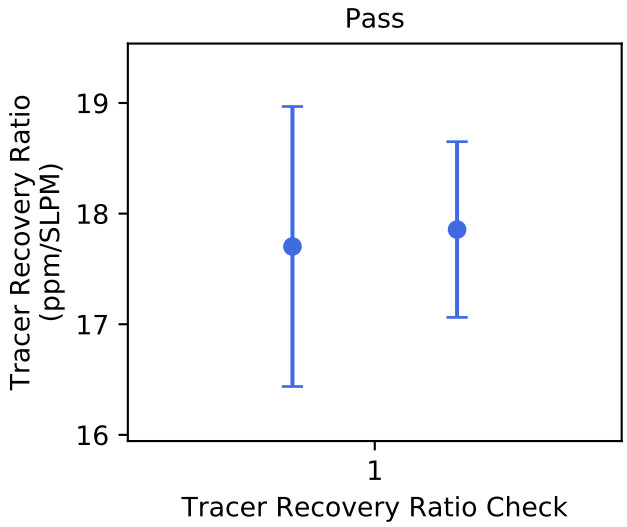


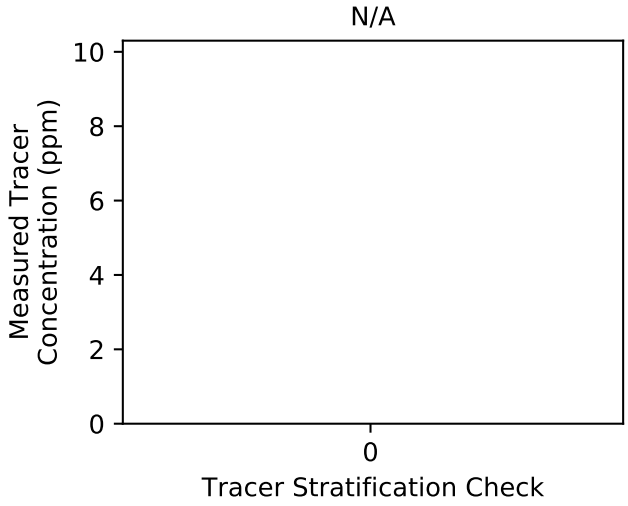


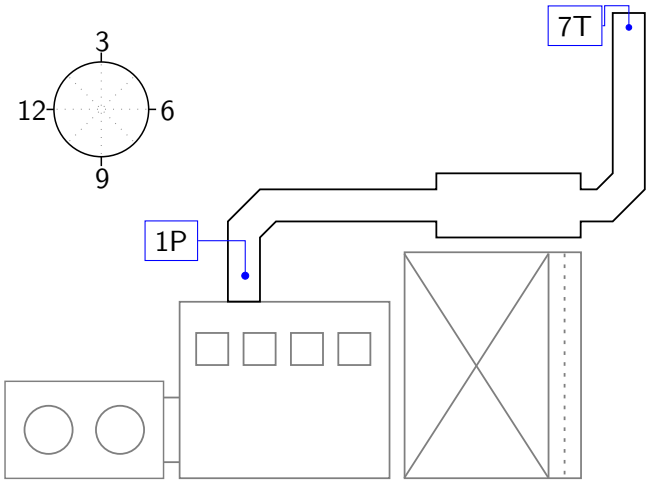


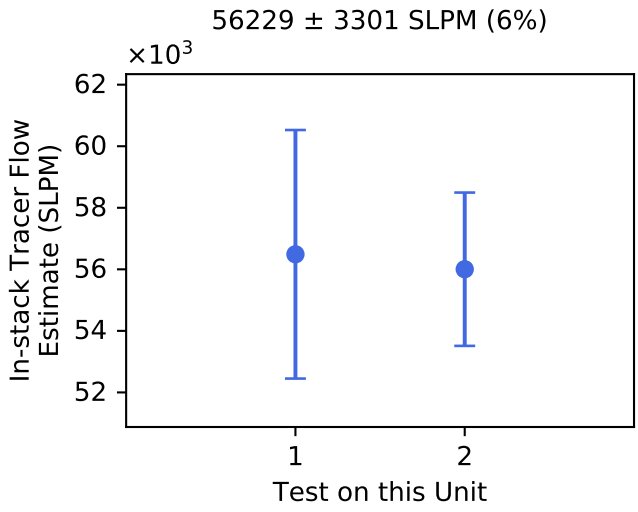
Facility 691
Unit 3
Make Waukesha
Model L7044GSI ESM
Type 4SRB
Rating (hp) 1680
Load -

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	1P	Single	No	7T	Multi	3clock	22	0.166±0.010	2.9±0.1	2013±101	56488±4038	4.5±0.4
2	1P	Single	No	7T	Multi	3clock	22	0.335±0.011	6.0±0.2	2044±131	56003±2491	4.5±0.4



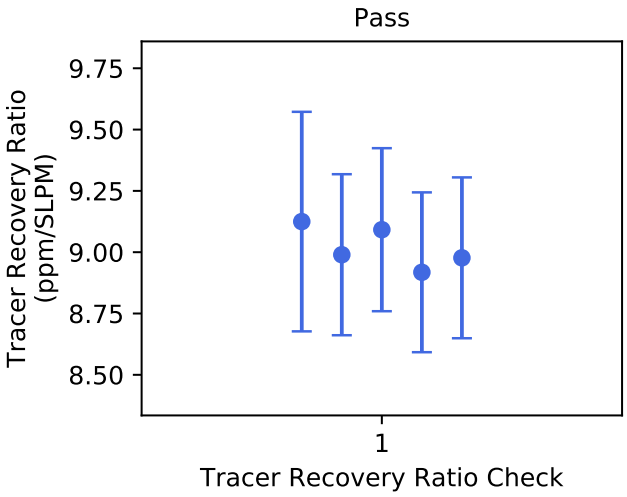


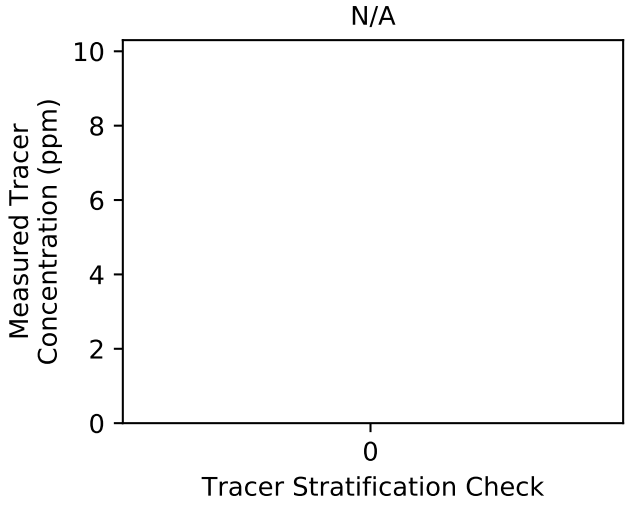


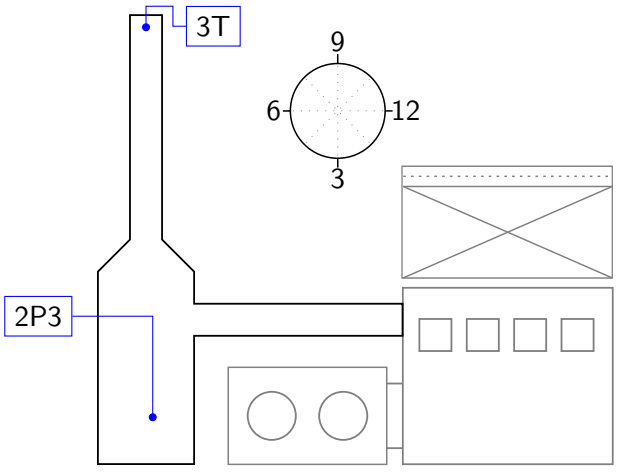


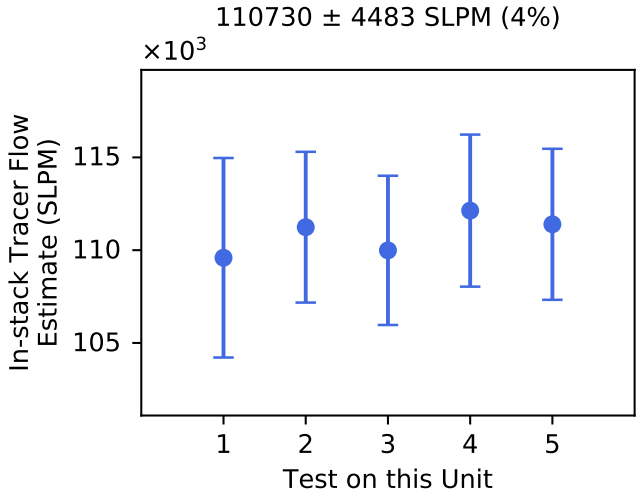
Facility 2186
Unit 1
Make Caterpillar
Model G3606 TALE
Type 4SLB
Rating (hp) 1775
Load 0.95

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P3	Single	No	3T	Multi	6clock	20	0.279±0.011	2.5±0.1	2046±61	109592±5376	8.8±0.5
2	2P3	Single	No	3T	Multi	6clock	20	0.561±0.012	5.0±0.2	2018±61	111238±4062	8.8±0.4
3	2P3	Single	No	3T	Multi	6clock	20	0.559±0.012	5.1±0.2	2035±61	109990±4021	8.8±0.4
4	2P3	Single	No	3T	Multi	6clock	20	0.560±0.012	5.0±0.1	2018±61	112132±4097	8.9±0.4
5	2P3	Single	No	3T	Multi	6clock	20	0.560±0.012	5.0±0.2	2016±60	111395±4069	8.9±0.4



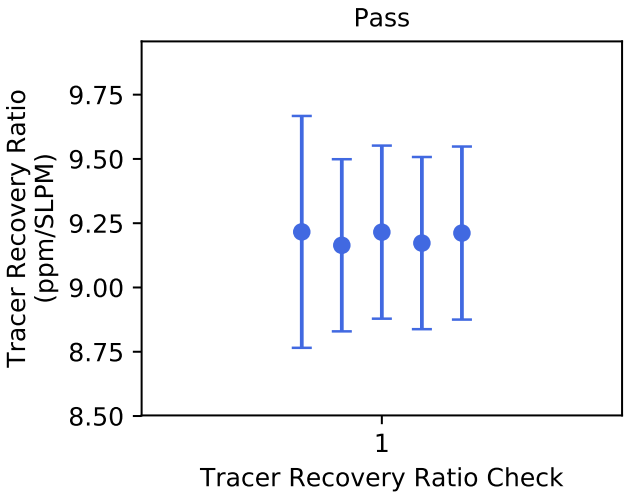


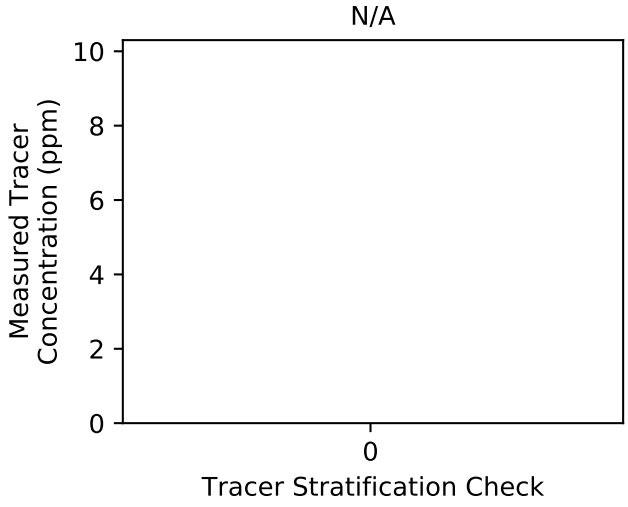


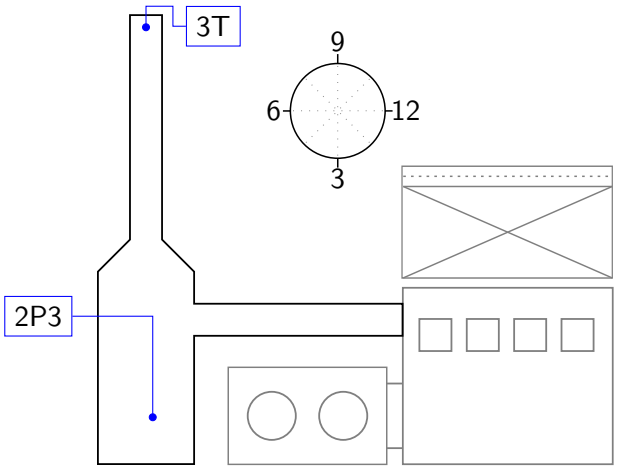


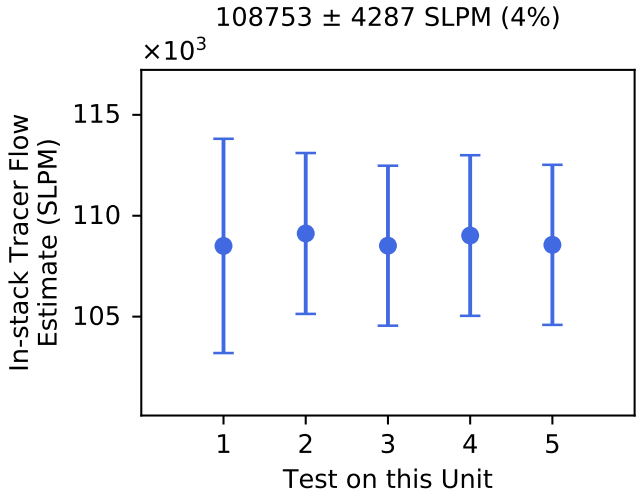
Facility	2186
Unit	2
Make	Caterpillar
Model	G3606 TALE
Type	4SLB
Rating (hp)	1775
Load	0.94

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P3	Single	No	3T	Multi	6clock	20	0.280±0.011	2.6±0.1	1831±55	108504±5309	7.8±0.4
2	2P3	Single	No	3T	Multi	6clock	20	0.560±0.012	5.1±0.2	1830±55	109121±3986	7.9±0.4
3	2P3	Single	No	3T	Multi	6clock	20	0.561±0.012	5.2±0.2	1830±55	108515±3964	7.8±0.4
4	2P3	Single	No	3T	Multi	6clock	20	0.562±0.012	5.2±0.2	1825±55	109020±3980	7.8±0.4
5	2P3	Single	No	3T	Multi	6clock	20	0.560±0.012	5.2±0.2	1822±55	108558±3966	7.8±0.4



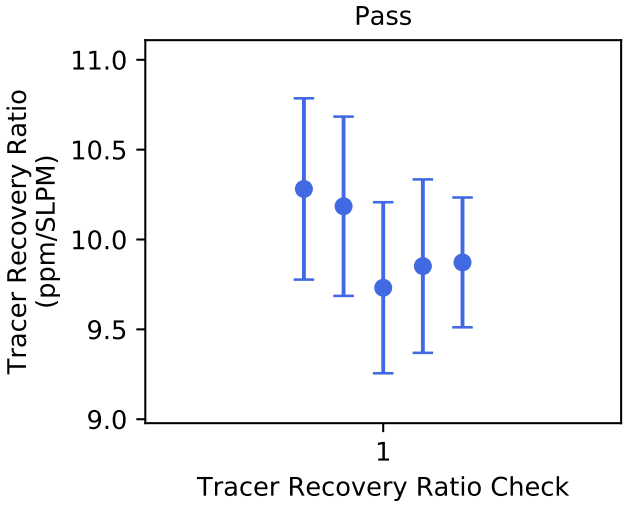


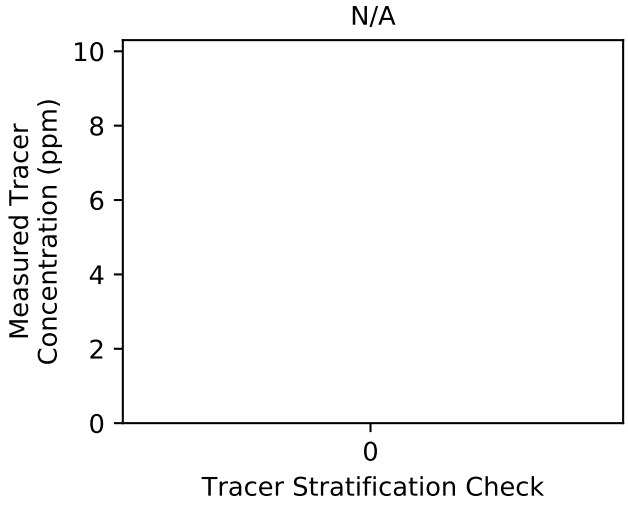


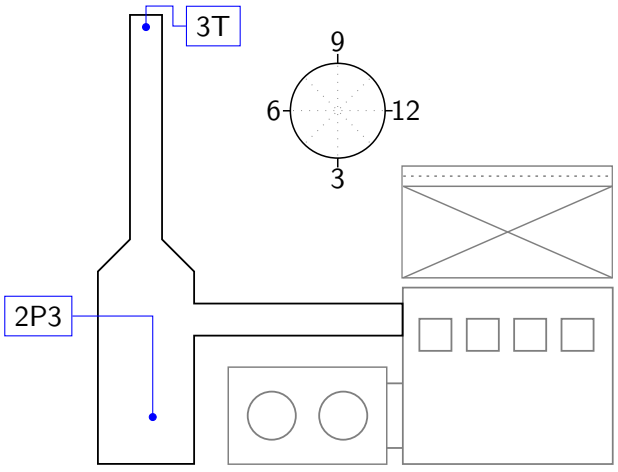


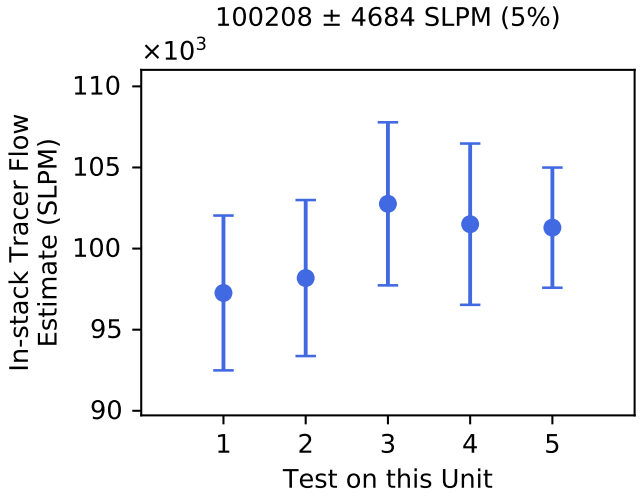
Facility	2186
Unit	3
Make	Caterpillar
Model	G3606 TALE
Type	4SLB
Rating (hp)	1775
Load	0.83

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P3	Single	No	3T	Multi	6clock	20	0.279±0.011	2.9±0.1	1747±52	97264±4772	6.7±0.4
2	2P3	Single	No	3T	Multi	6clock	20	0.280±0.011	2.9±0.1	1729±52	98183±4808	6.7±0.4
3	2P3	Single	No	3T	Multi	6clock	20	0.281±0.011	2.7±0.1	1734±53	102758±5026	7.0±0.4
4	2P3	Single	No	3T	Multi	6clock	20	0.280±0.011	2.8±0.1	1733±52	101504±4972	6.9±0.4
5	2P3	Single	No	3T	Multi	6clock	20	0.558±0.012	5.5±0.2	1745±52	101291±3705	7.0±0.3



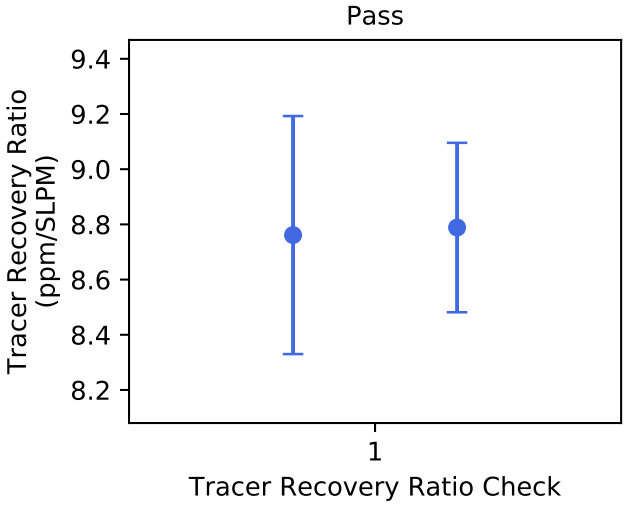


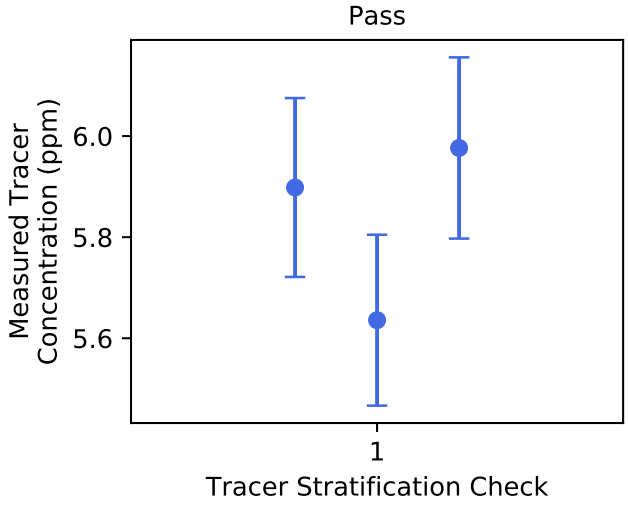


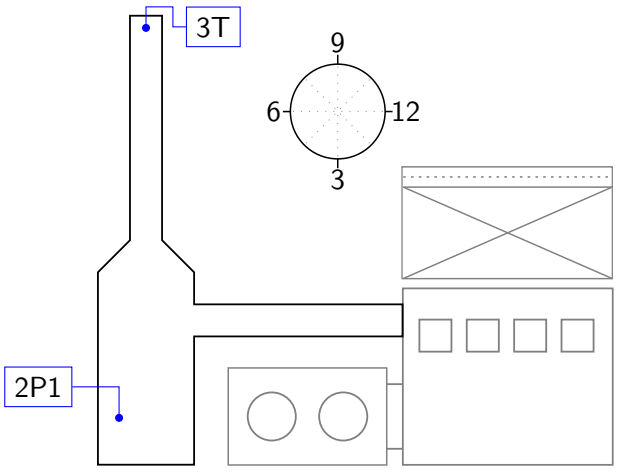


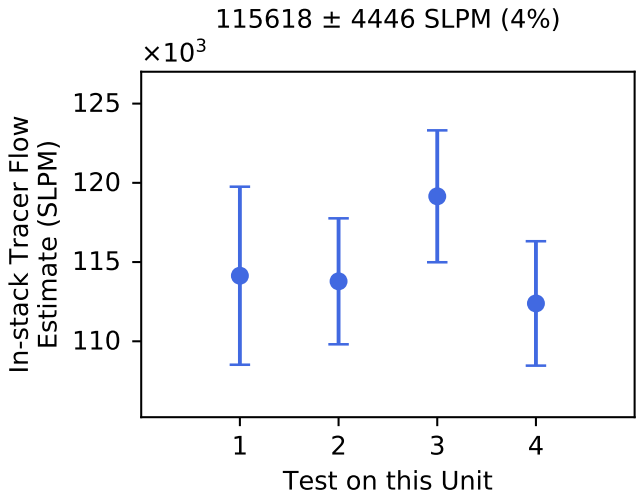
Facility 1505
Unit 1
Make Caterpillar
Model G3606 TALE
Type 4SLB
Rating (hp) 1775
Load 0.85

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P1	Multi	No	3T	Multi	6clock	20	0.278±0.011	2.4±0.1	1601±48	114138±5618	7.2±0.4
2	2P1	Multi	No	3T	Multi	6clock	20	0.671±0.012	5.9±0.2	1617±49	113785±3975	7.3±0.3
3	2P1	Multi	No	3T	Multi	3clock	20	0.671±0.012	5.6±0.2	1624±49	119150±4162	7.6±0.4
4	2P1	Multi	No	3T	Multi	430clock	20	0.672±0.012	6.0±0.2	1609±48	112389±3926	7.1±0.3



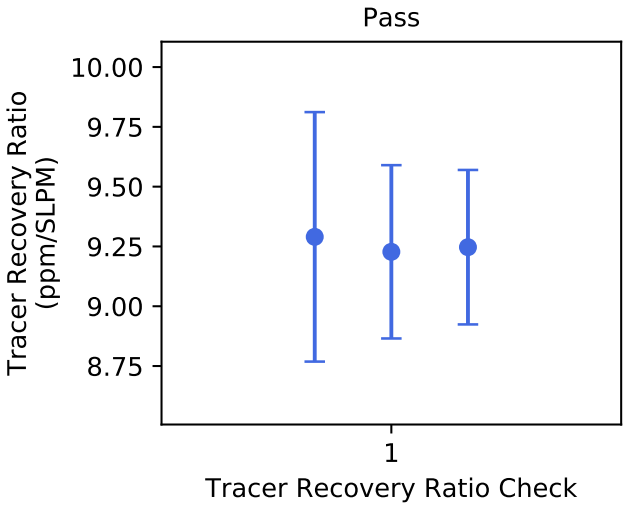


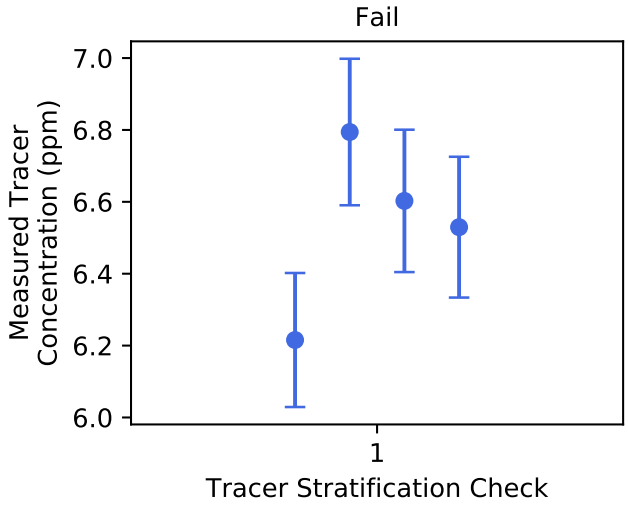


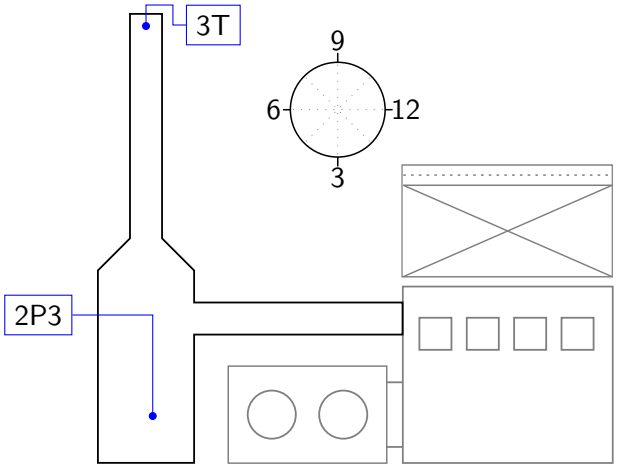


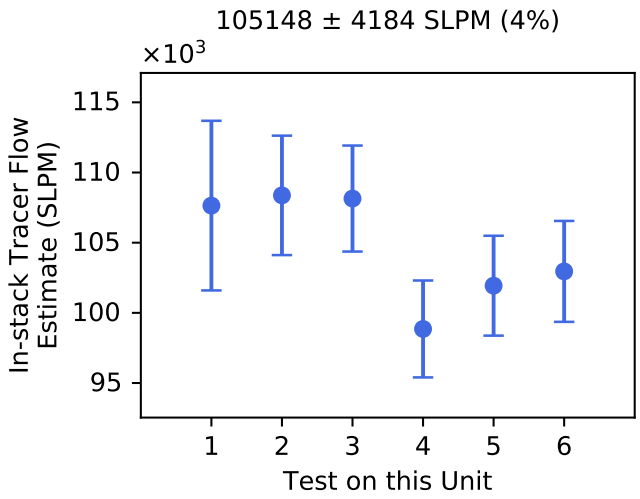
Facility	1505
Unit	2
Make	Caterpillar
Model	G3606 TALE
Type	4SLB
Rating (hp)	1775
Load	0.86

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P3	Single	No	3T	Multi	6clock	20	0.225±0.011	2.1±0.1	1682±50	107641±6043	7.1±0.5
2	2P3	Single	No	3T	Multi	6clock	20	0.448±0.011	4.1±0.1	1688±51	108371±4255	7.2±0.4
3	2P3	Single	No	3T	Multi	6clock	20	0.672±0.012	6.2±0.2	1702±51	108144±3777	7.3±0.3
4	2P3	Single	No	3T	Multi	3clock	20	0.672±0.012	6.8±0.2	1738±52	98852±3453	6.8±0.3
5	2P3	Single	No	3T	Multi	12clock	20	0.673±0.012	6.6±0.2	1728±52	101935±3559	6.9±0.3
6	2P3	Single	No	3T	Multi	9clock	20	0.672±0.012	6.5±0.2	1733±52	102954±3595	7.0±0.3



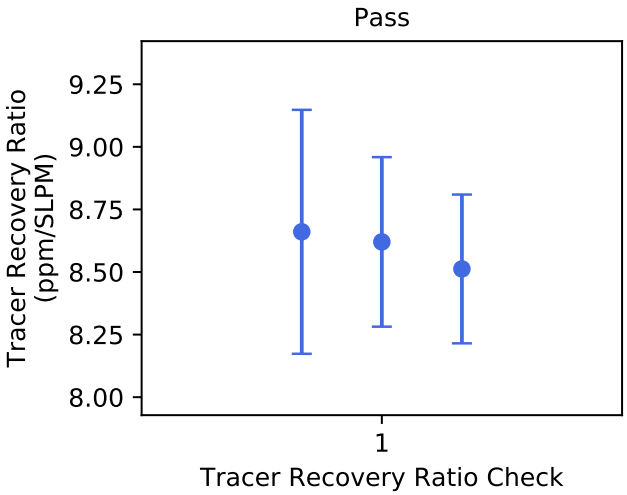


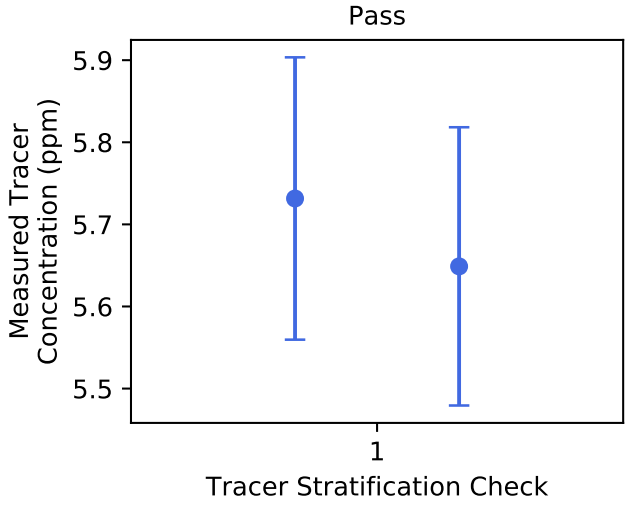


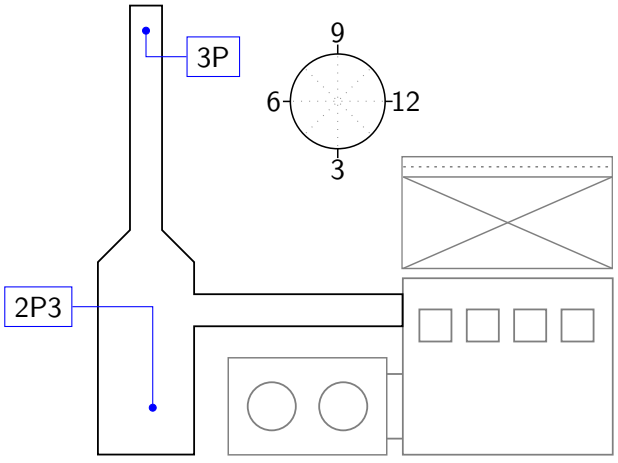


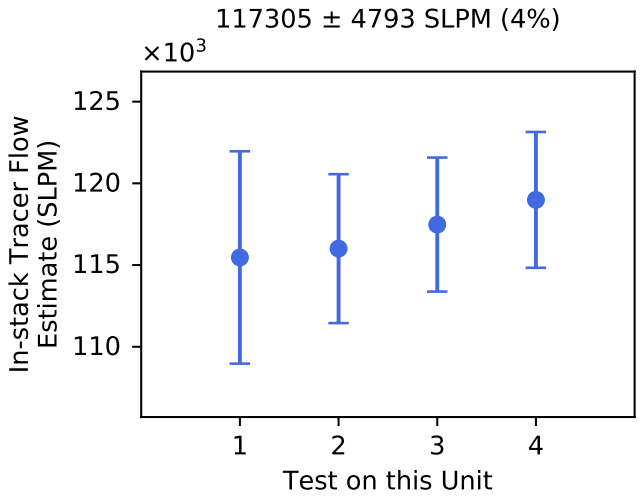
Facility 1505
Unit 3
Make Caterpillar
Model G3606 TALE
Type 4SLB
Rating (hp) 1775
Load 0.87

Test	Tracer Position	Tracer Probe	Drop Tube Used	Sample Position	Sample Probe	Sample Probe Position	Distance Estimate (ft)	CF_4 Delivered (SLPM)	CF_4 Measured (ppm)	CH_4 Measured (ppm)	Stack Flow (SLPM)	CH_4 Rate (kg/h)
1	2P3	Single	No	3P	Multi	6clock	20	0.224±0.011	1.9±0.1	1683±50	115466±6496	7.7±0.5
2	2P3	Single	No	3P	Multi	6clock	20	0.447±0.011	3.9±0.1	1688±51	116005±4557	7.7±0.4
3	2P3	Single	No	3P	Multi	6clock	20	0.673±0.012	5.7±0.2	1669±50	117478±4101	7.7±0.4
4	2P3	Single	No	3P	Multi	3clock	20	0.672±0.012	5.6±0.2	1683±50	118990±4155	7.9±0.4



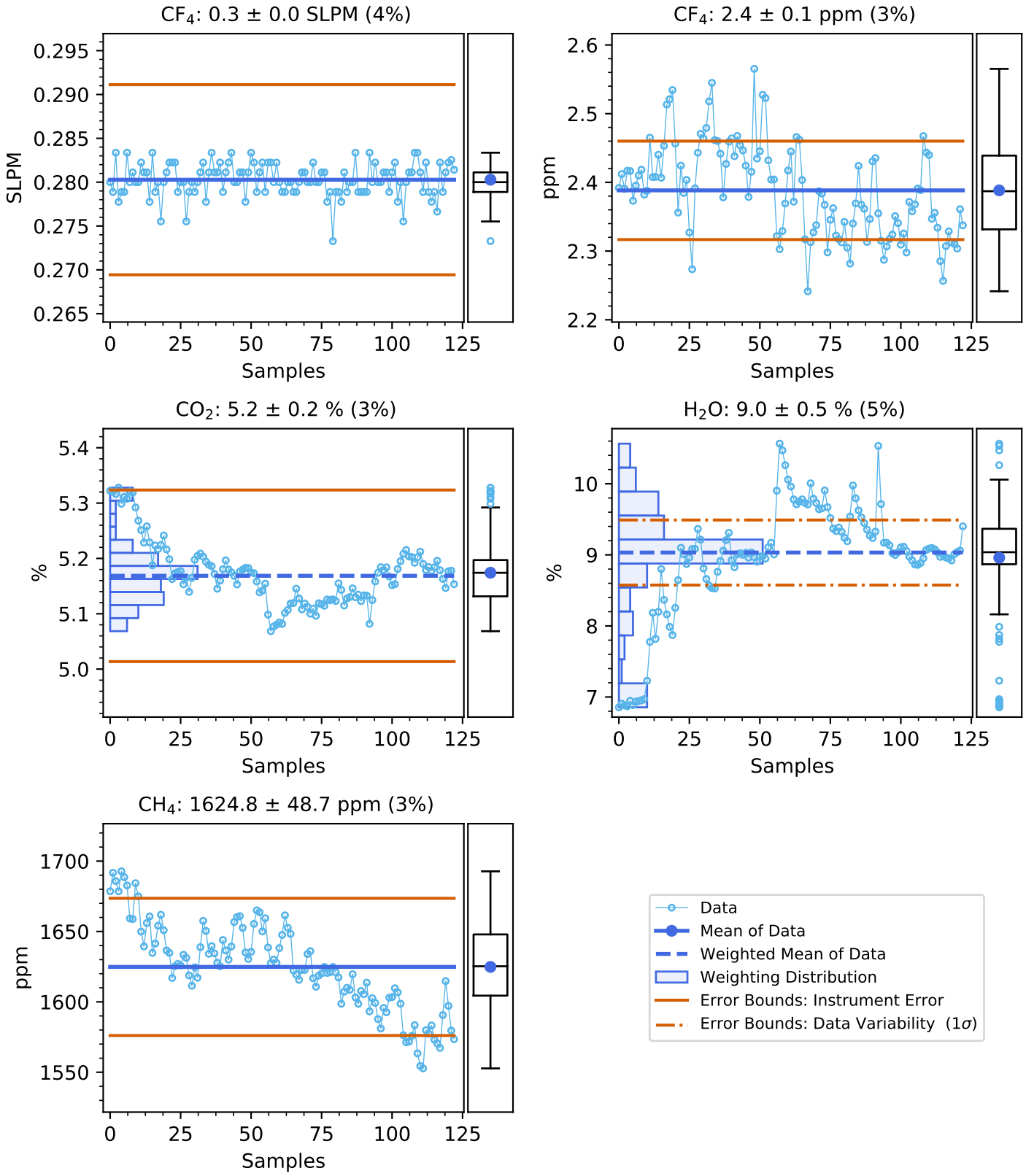




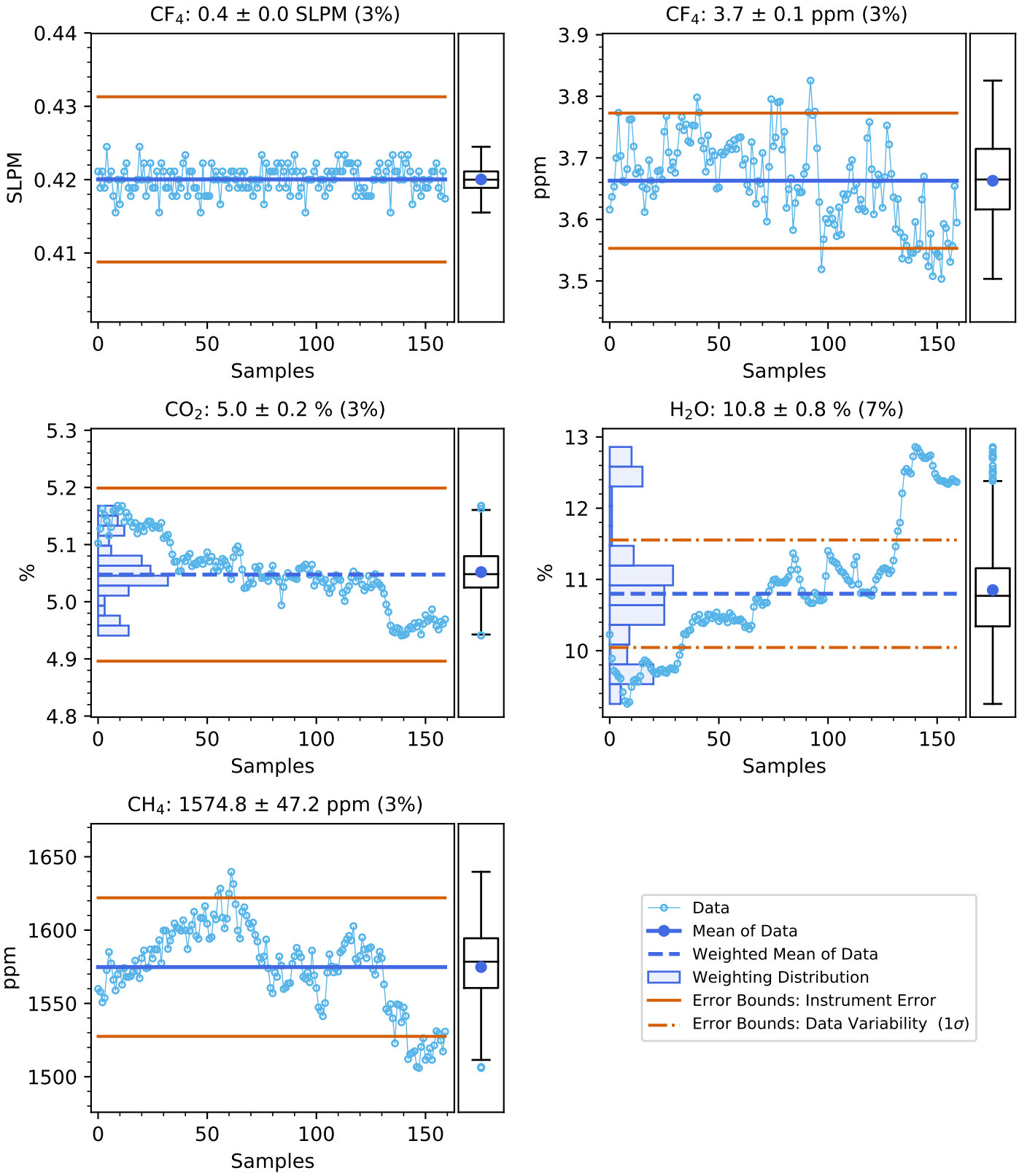


A2 Unit Level Test Data

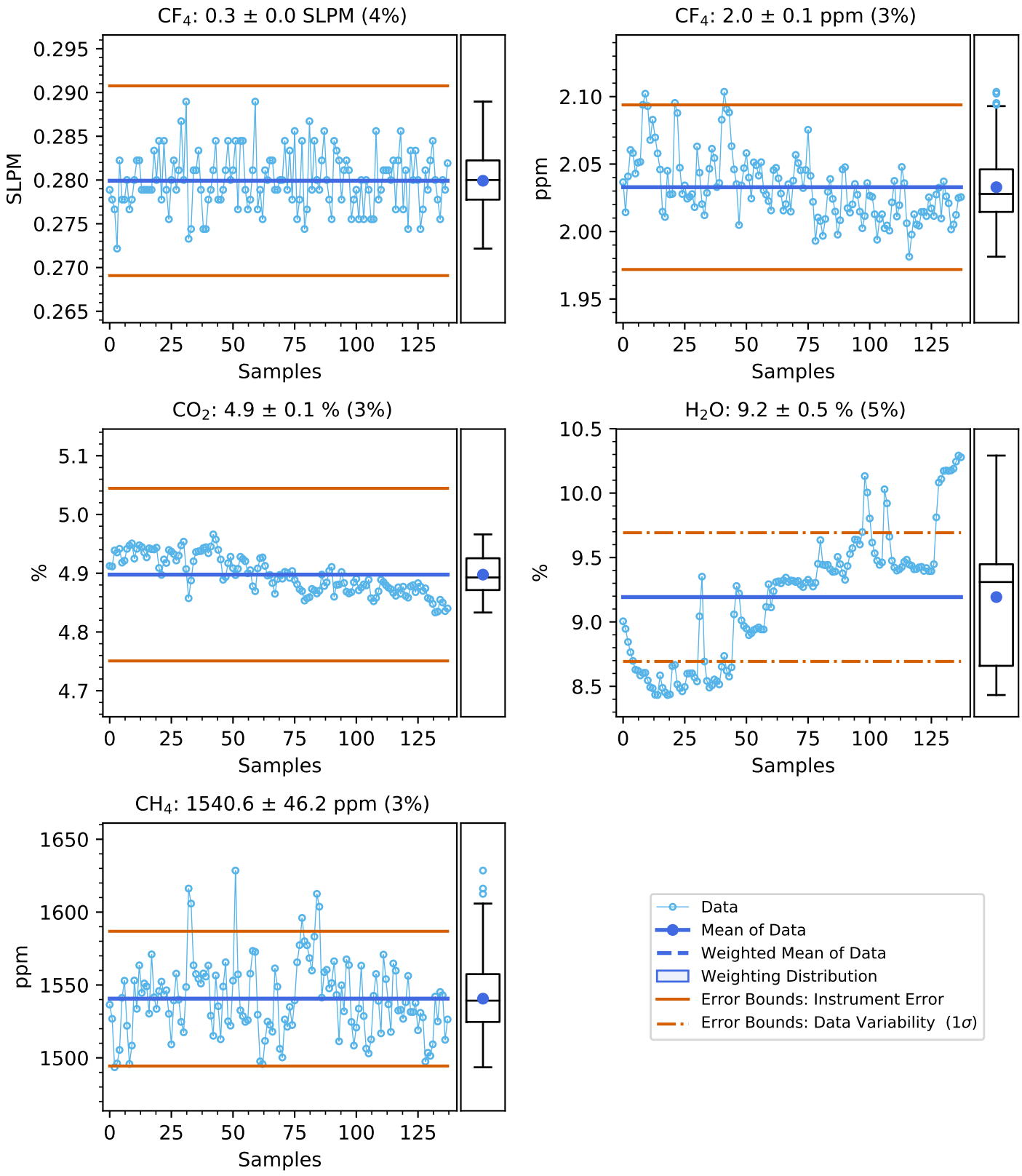
Facility: 2686 Unit: 1 Test: 1



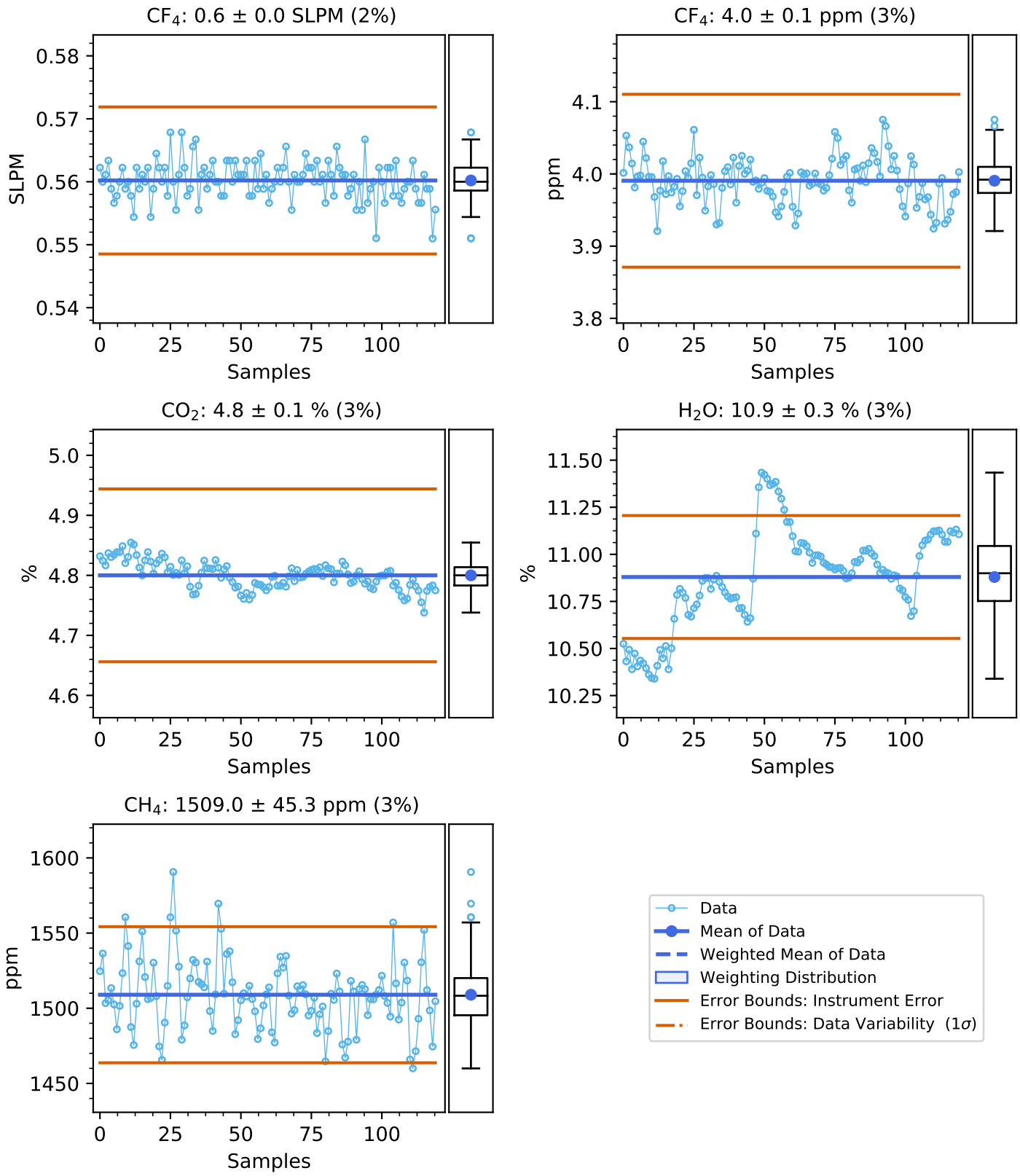
Facility: 2686 Unit: 1 Test: 2



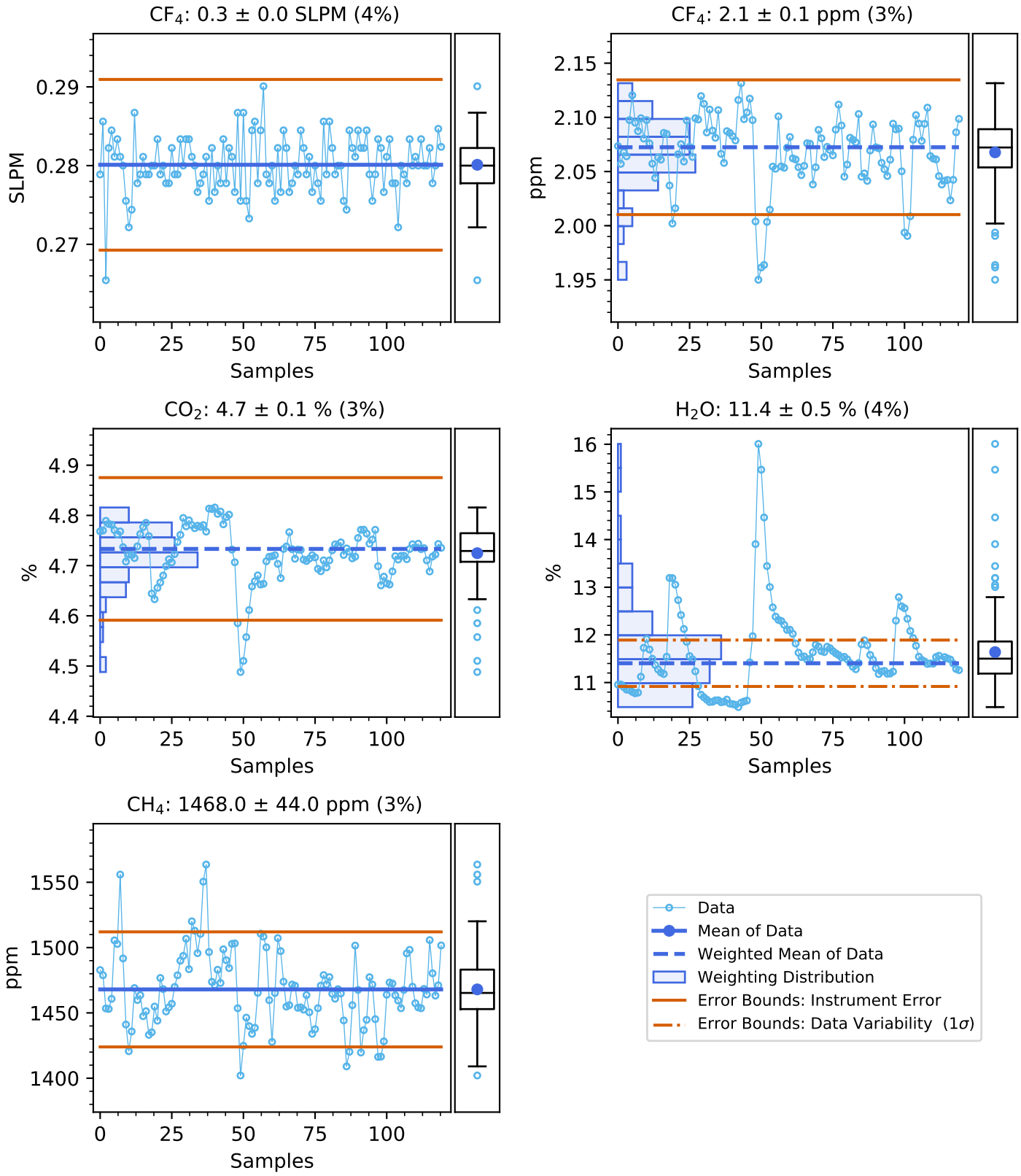
Facility: 2686 Unit: 2 Test: 1



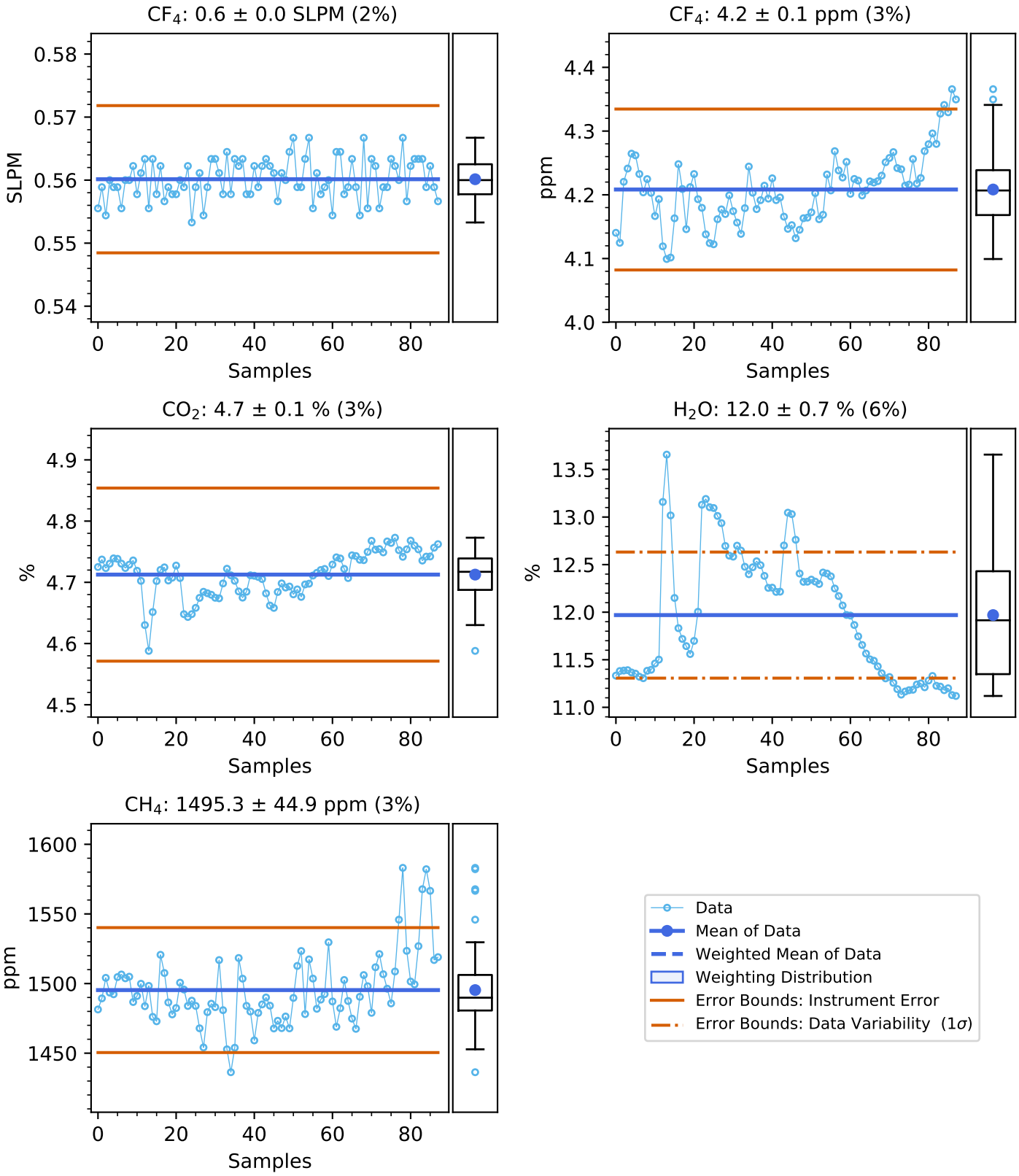
Facility: 2686 Unit: 2 Test: 2



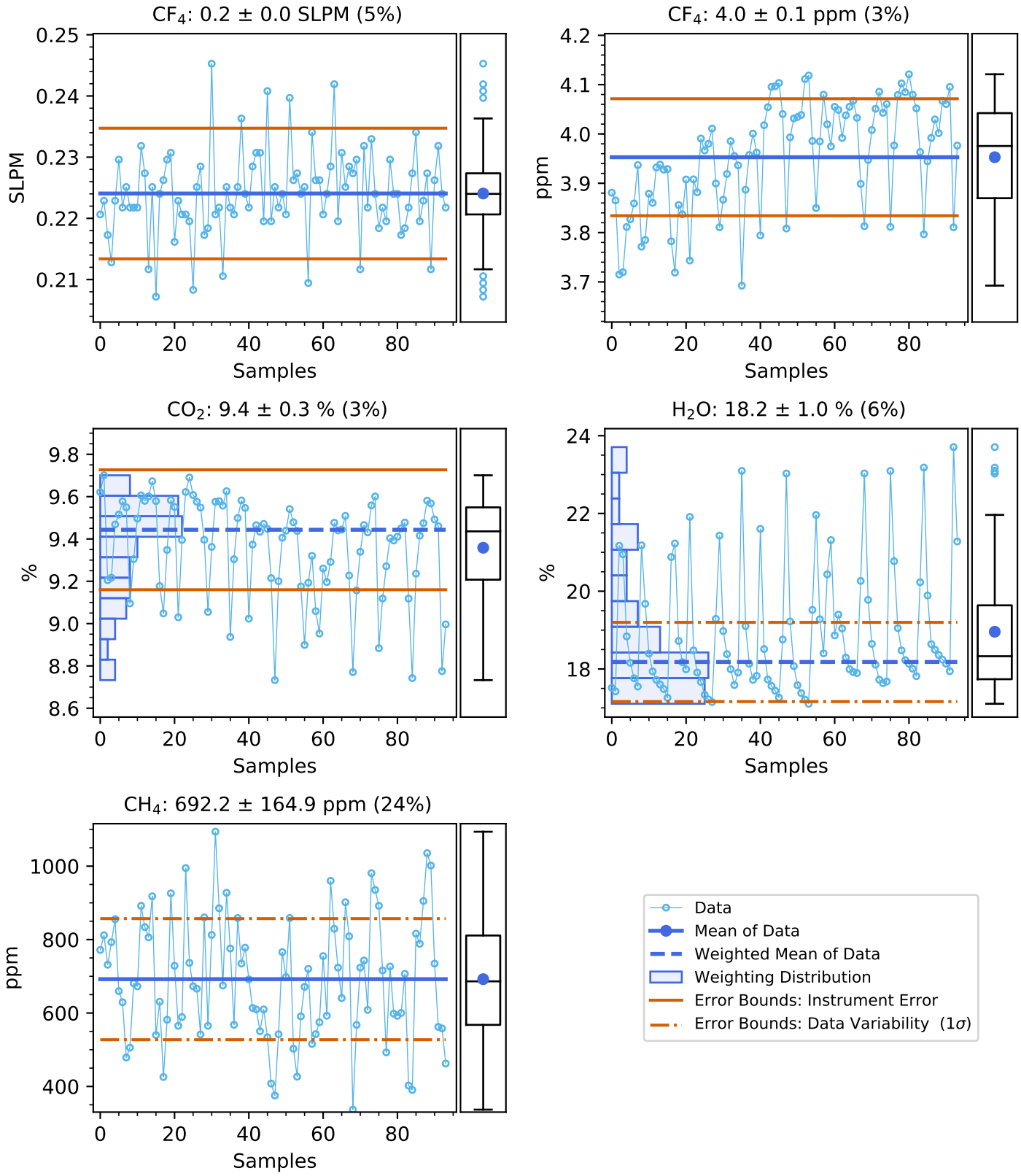
Facility: 2686 Unit: 3 Test: 1



Facility: 2686 Unit: 3 Test: 2



Facility: 1418 Unit: 1 Test: 1



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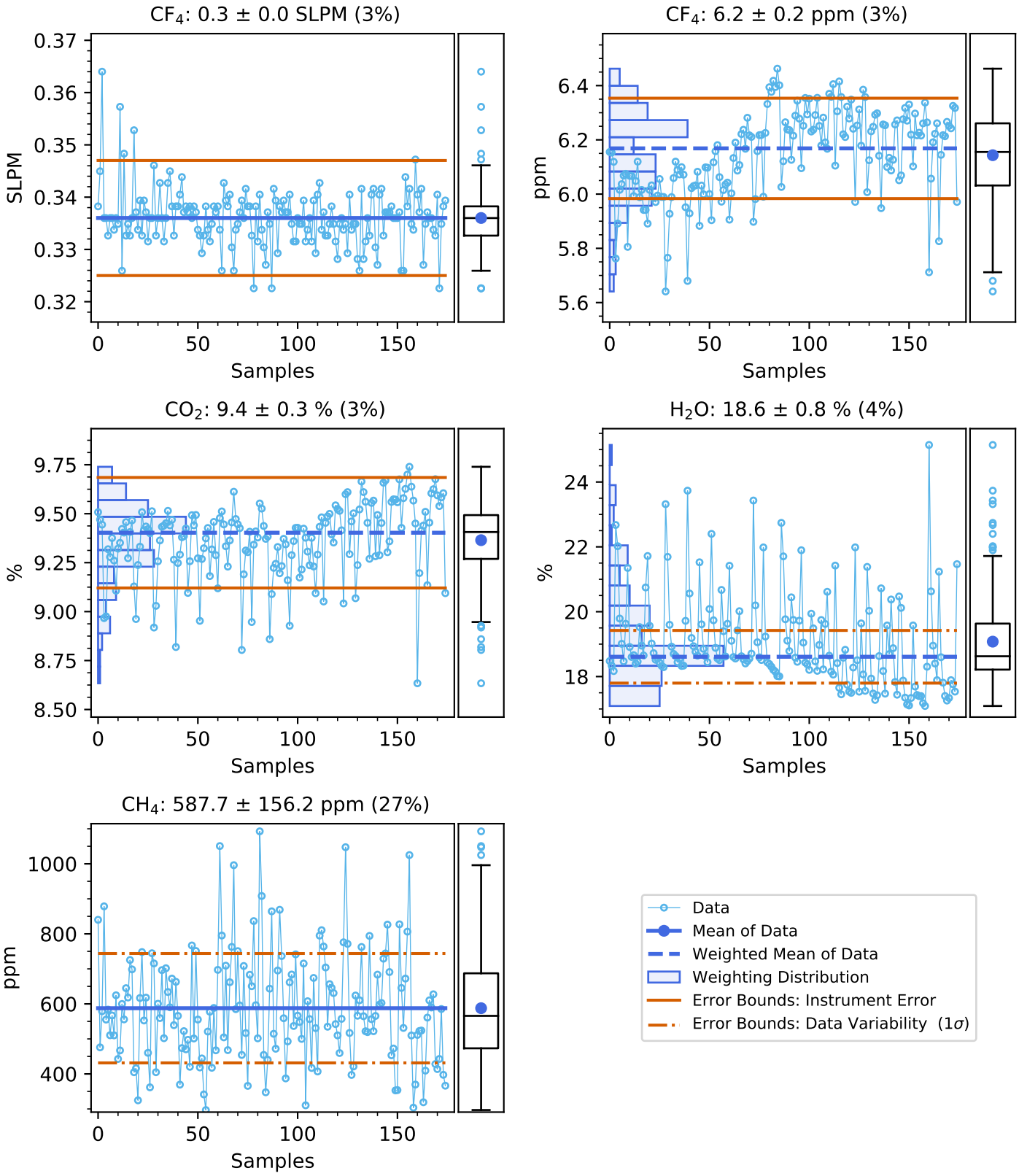
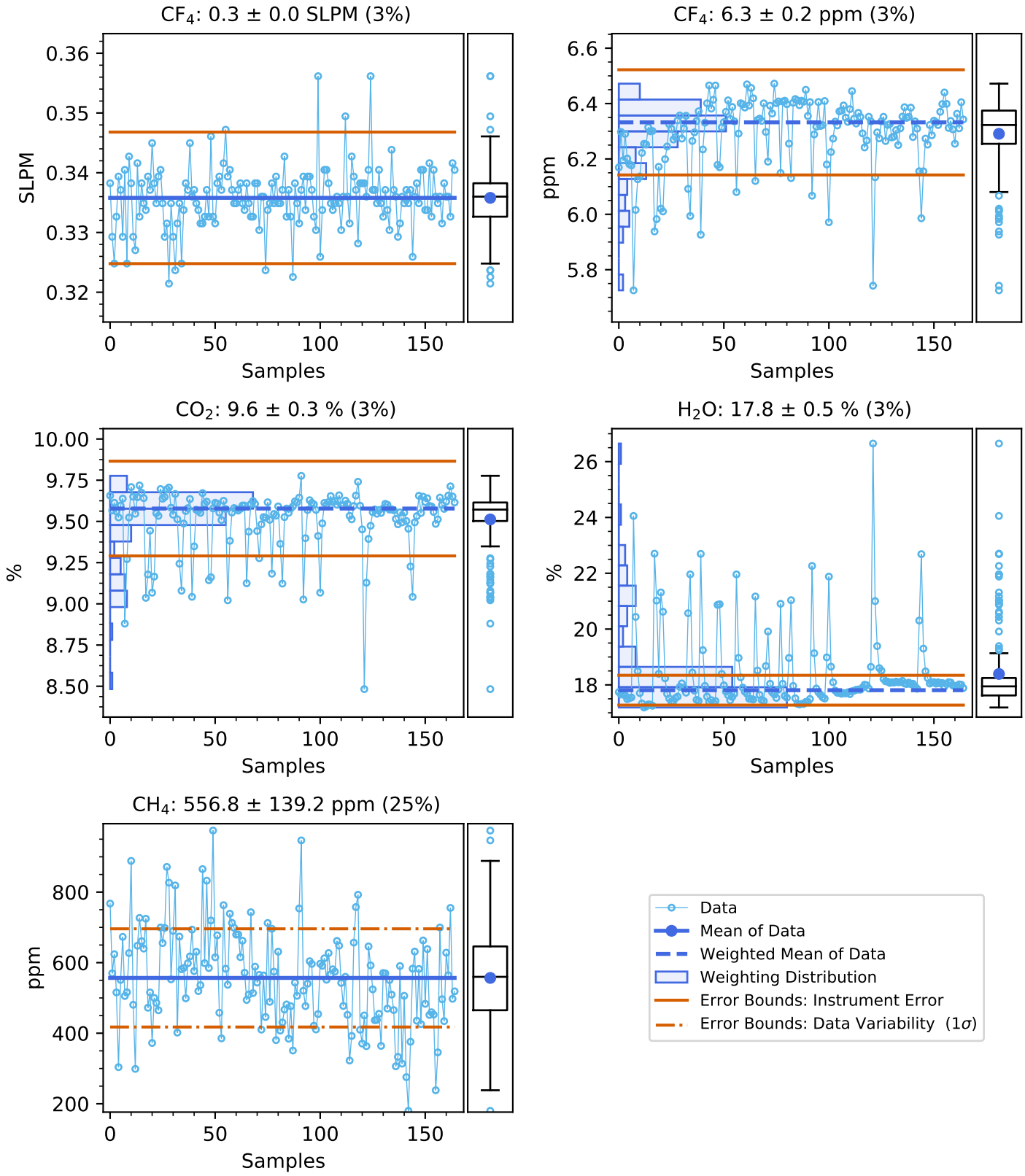
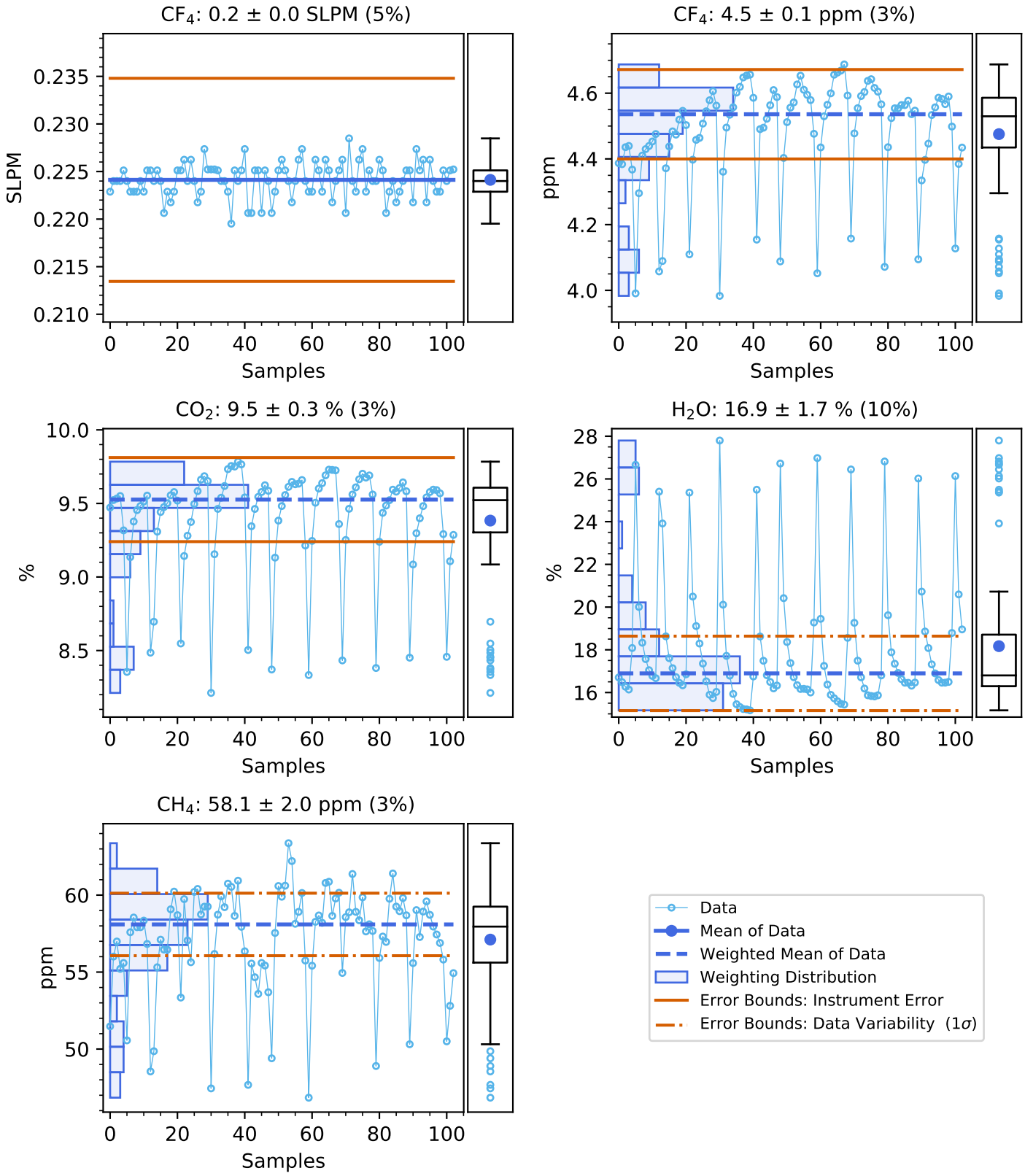


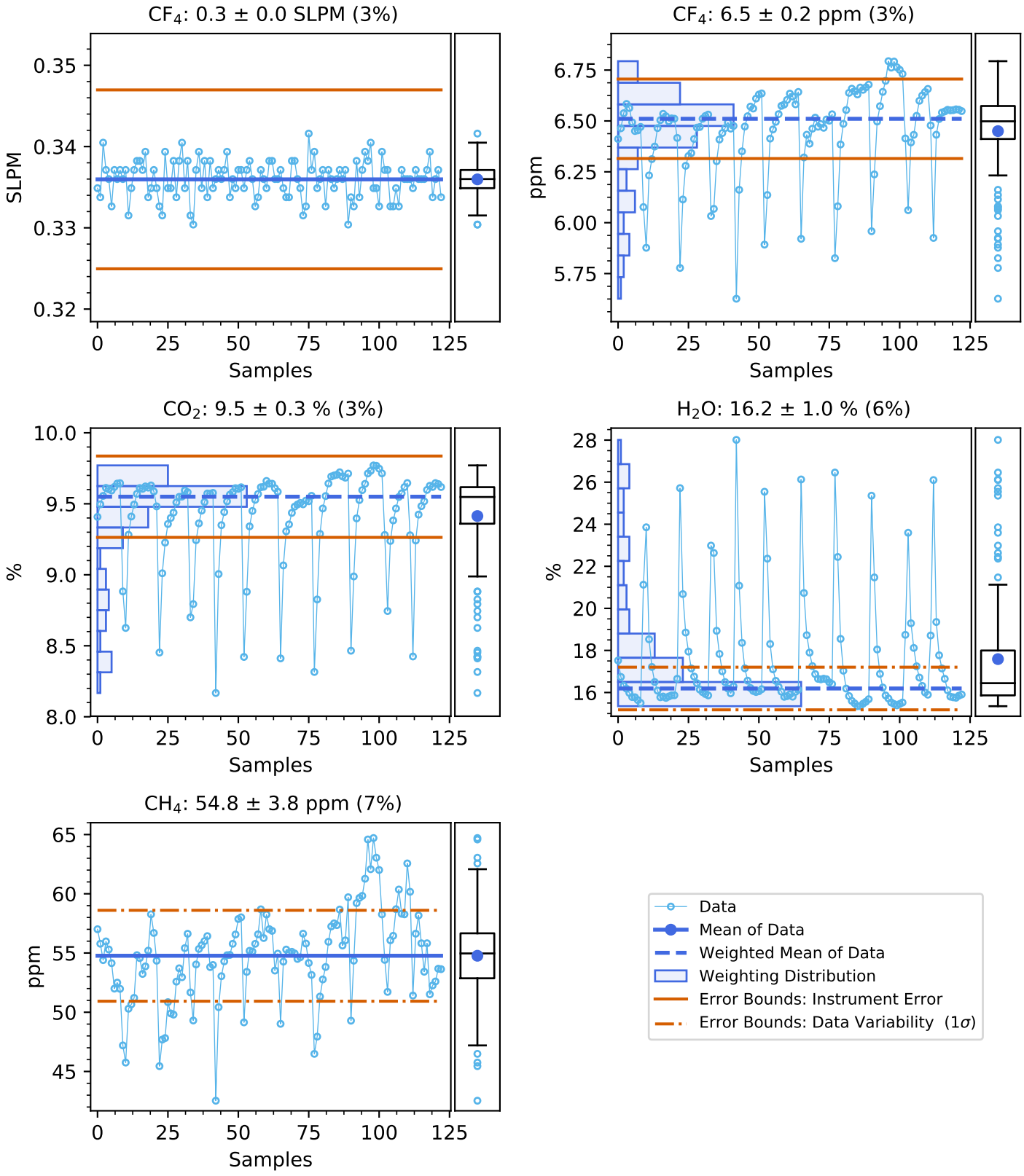
Facility: 1418 Unit: 1 Test: 3



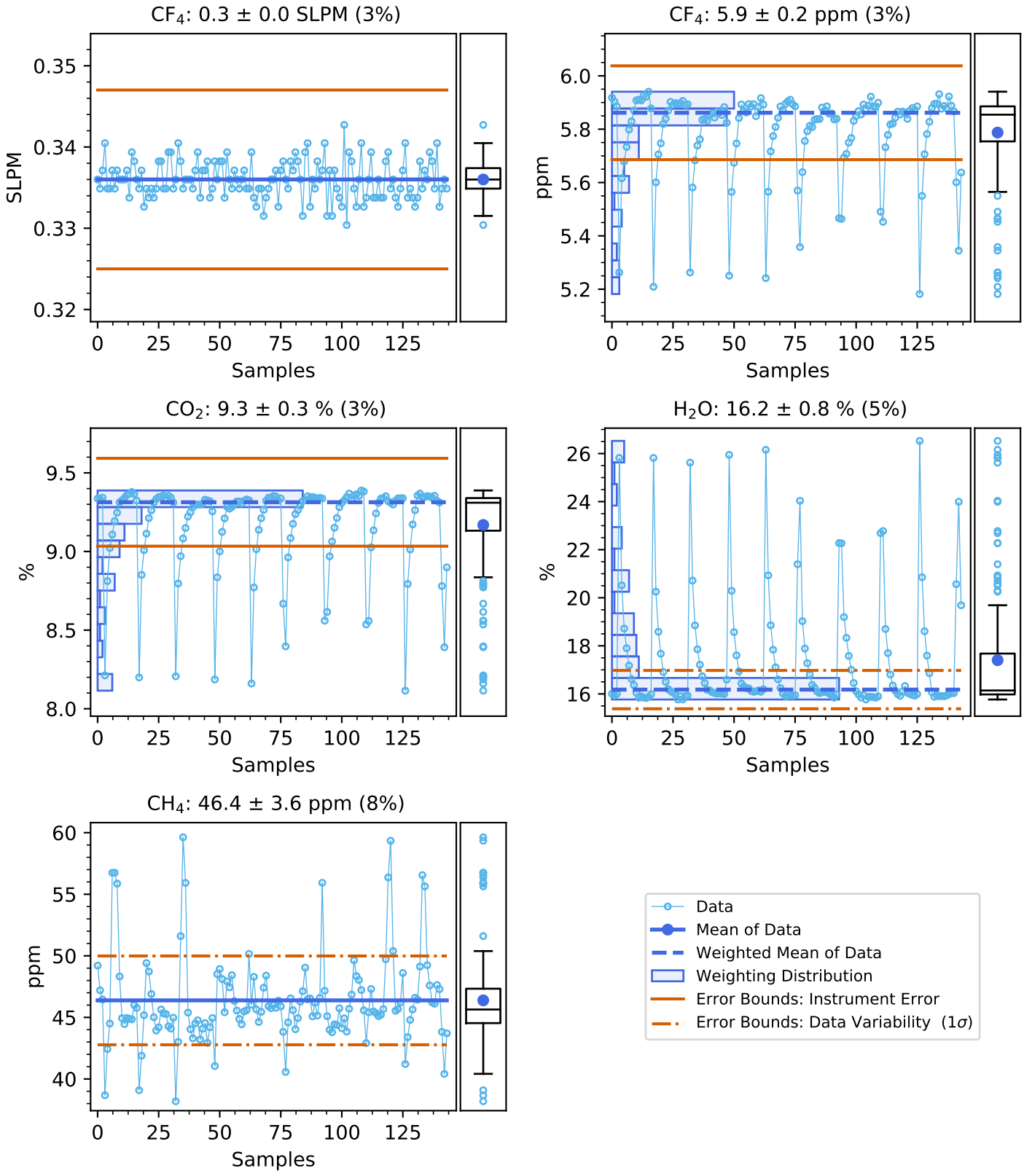
Facility: 1418 Unit: 2 Test: 1



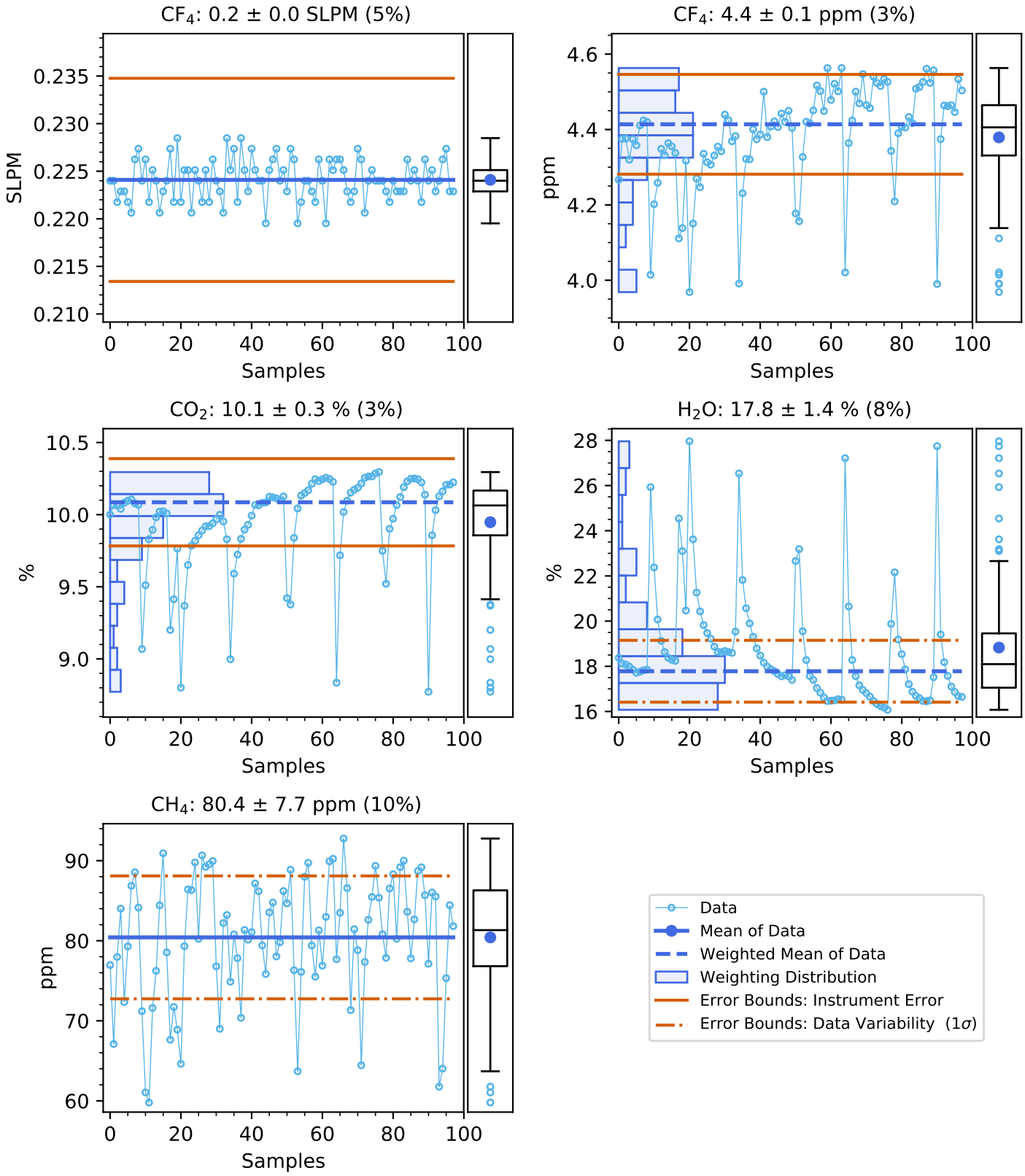
Facility: 1418 Unit: 2 Test: 2



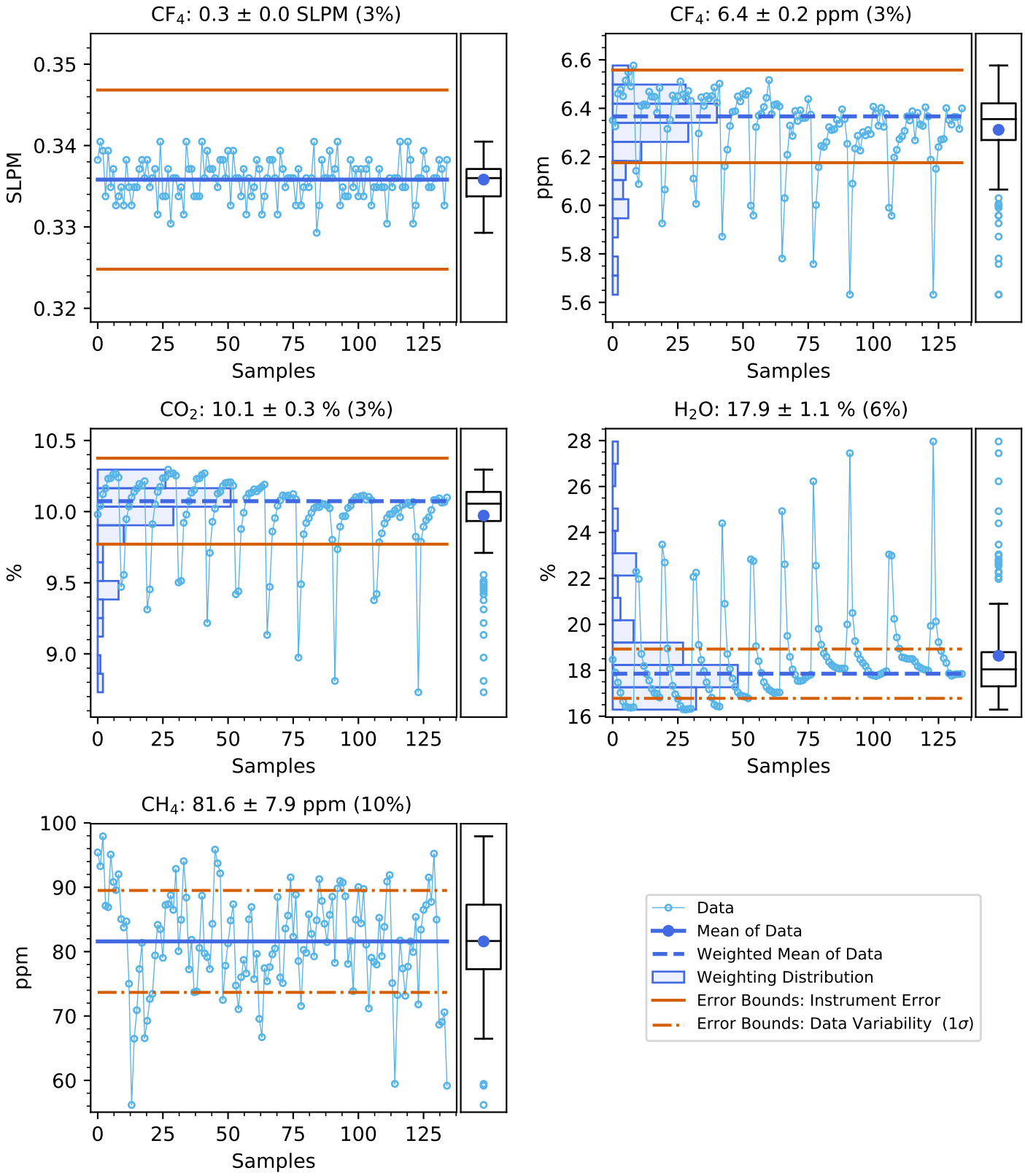
Facility: 1418 Unit: 2 Test: 3



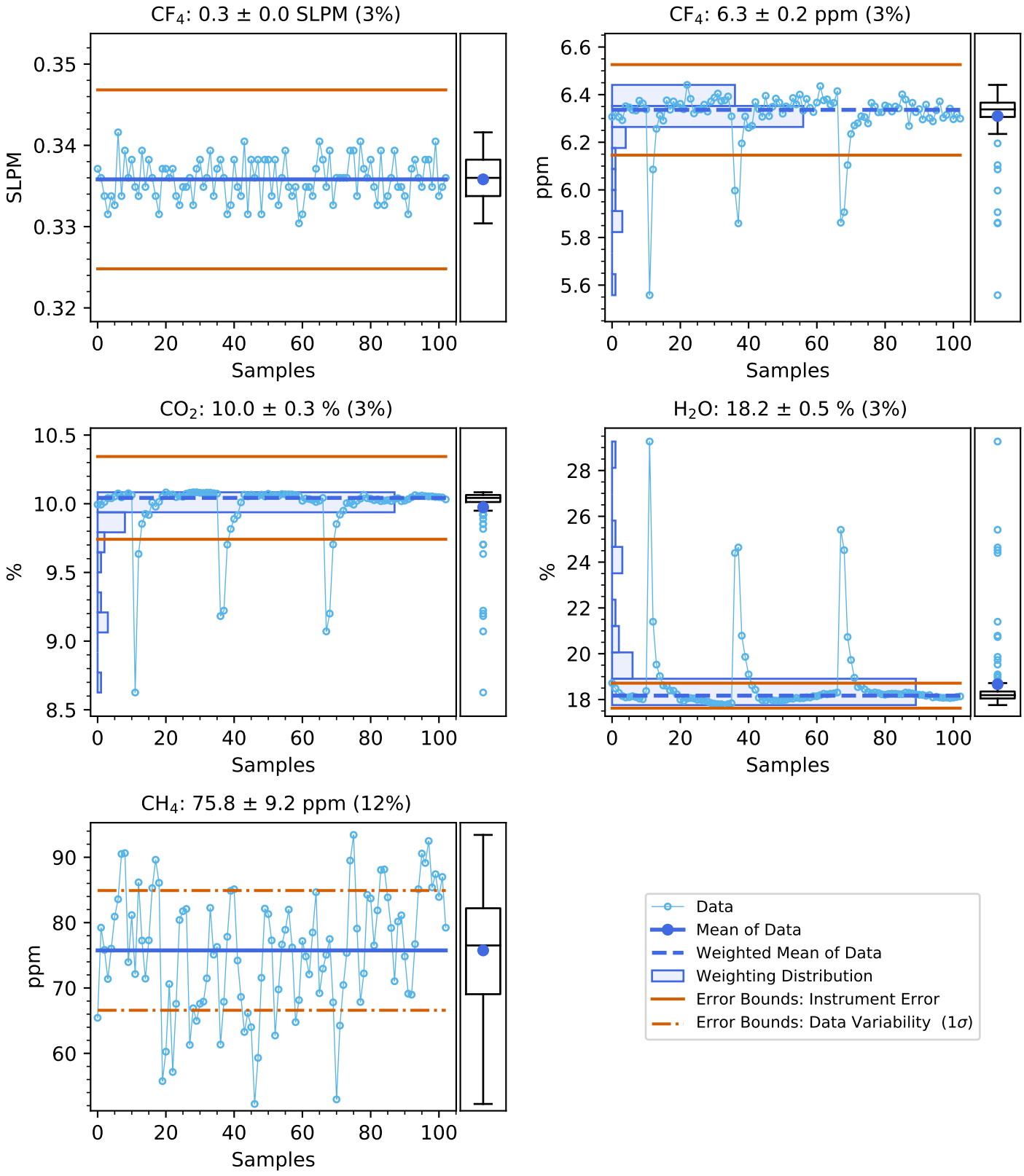
Facility: 1418 Unit: 3 Test: 1



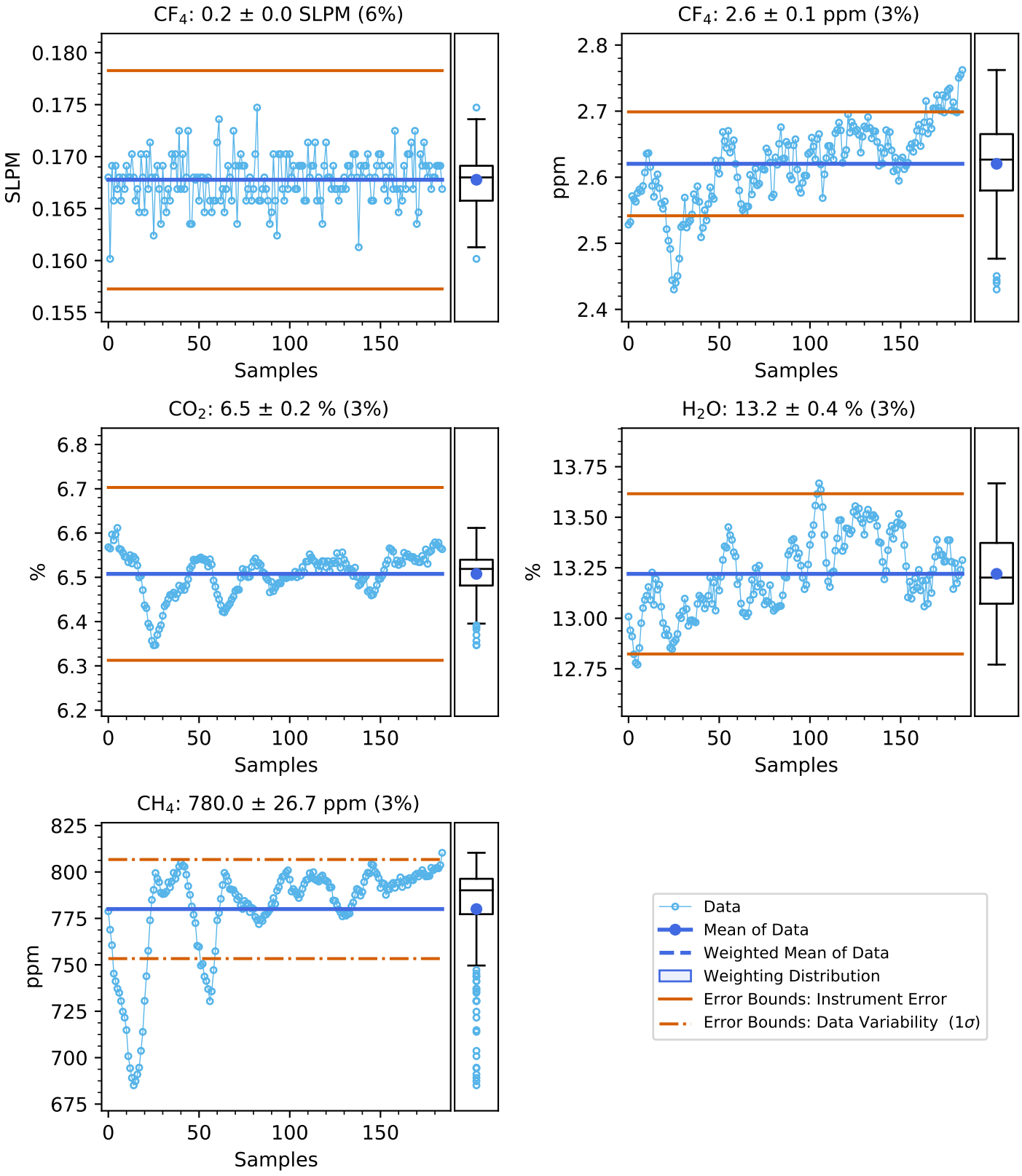
Facility: 1418 Unit: 3 Test: 2



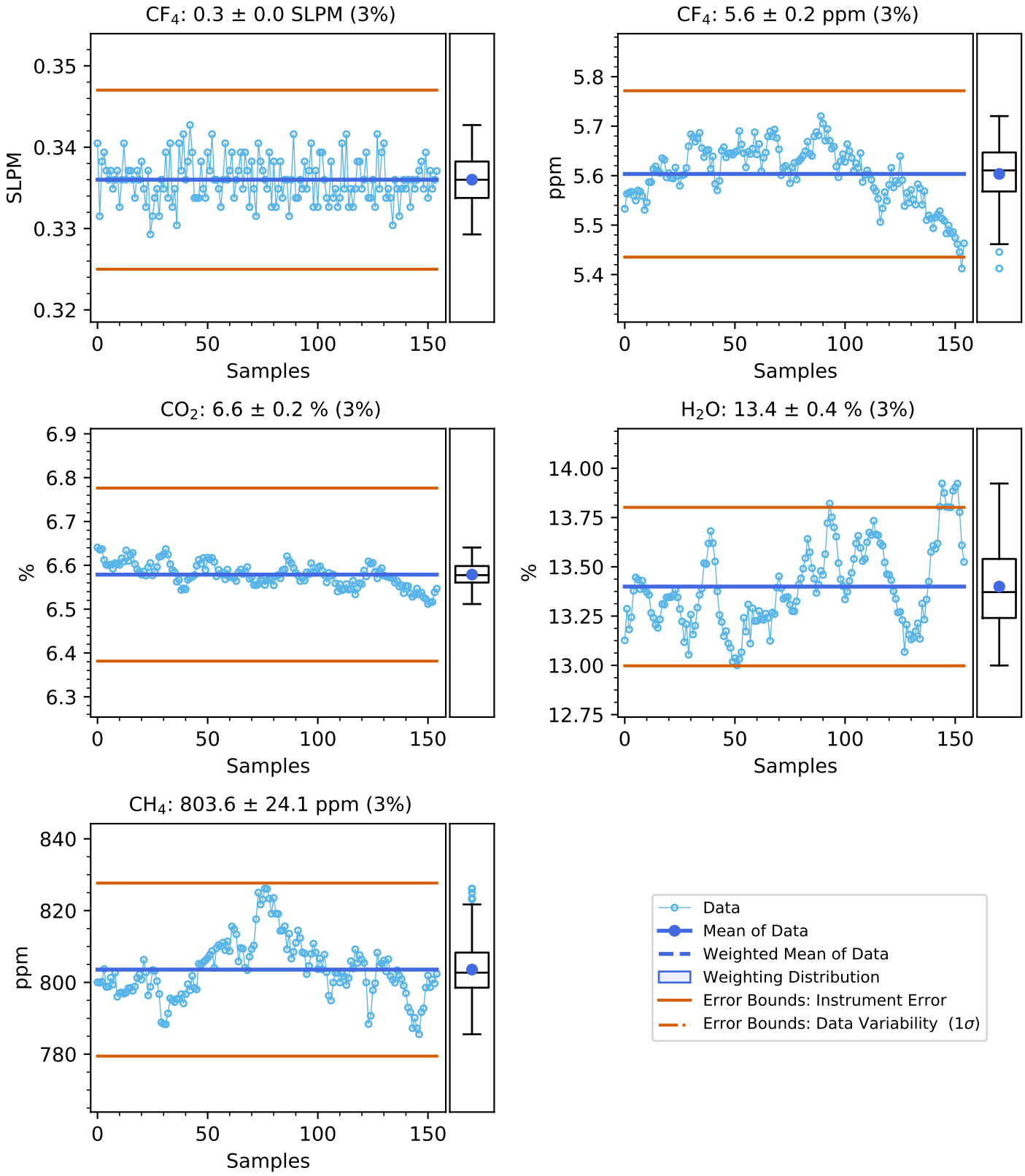
Facility: 1418 Unit: 3 Test: 3



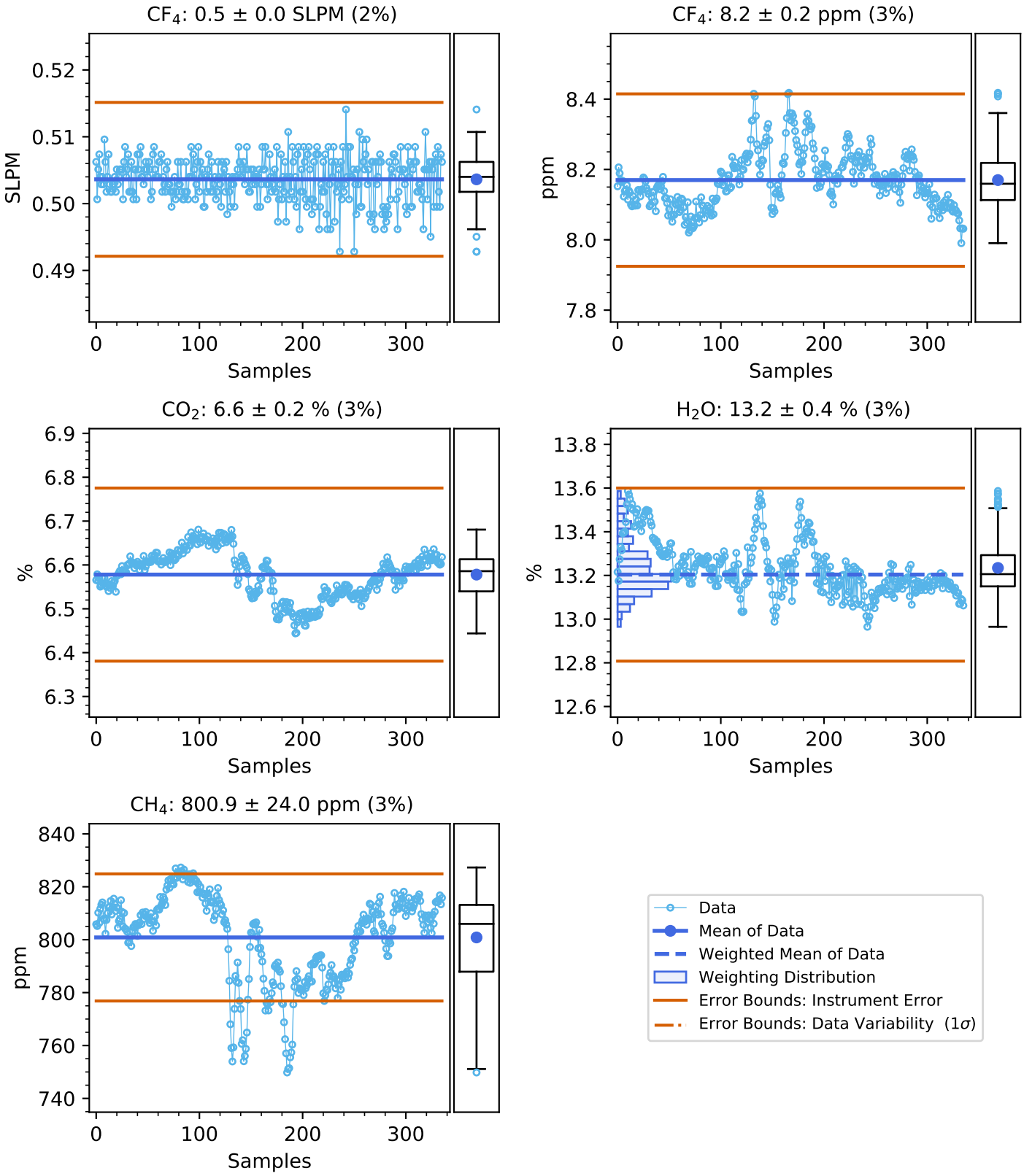
Facility: 791 Unit: 1 Test: 1



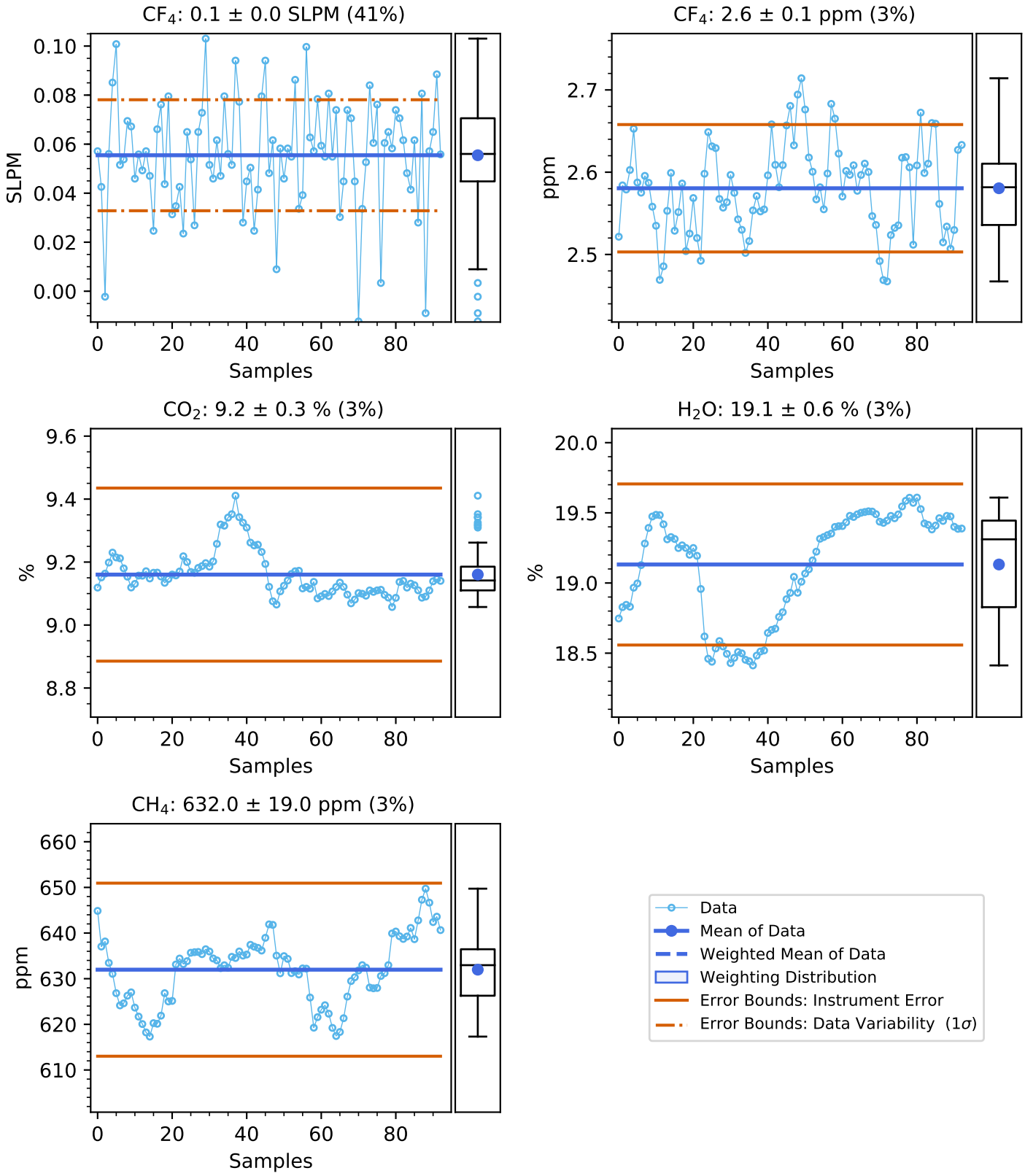
Facility: 791 Unit: 1 Test: 2



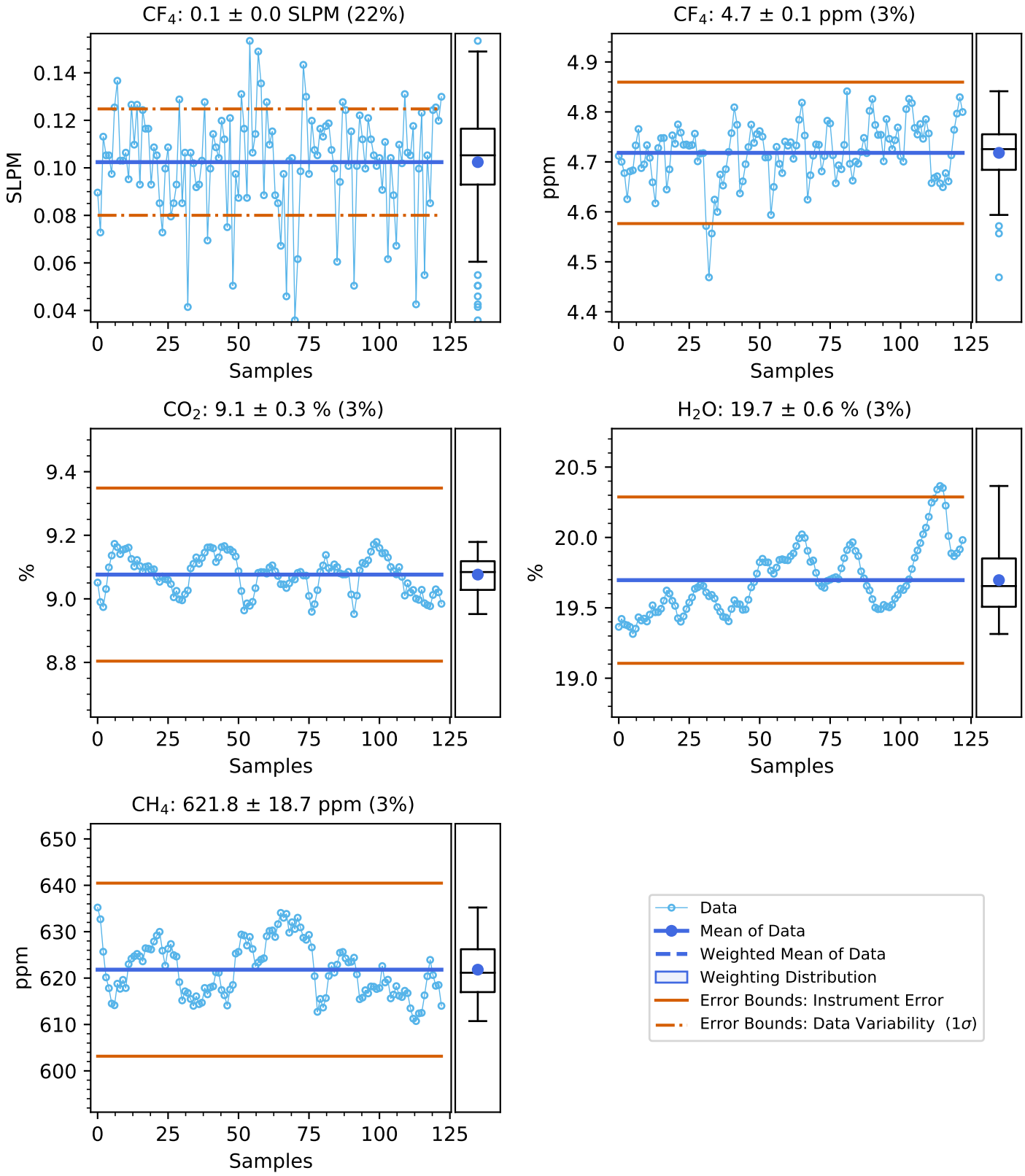
Facility: 791 Unit: 1 Test: 3



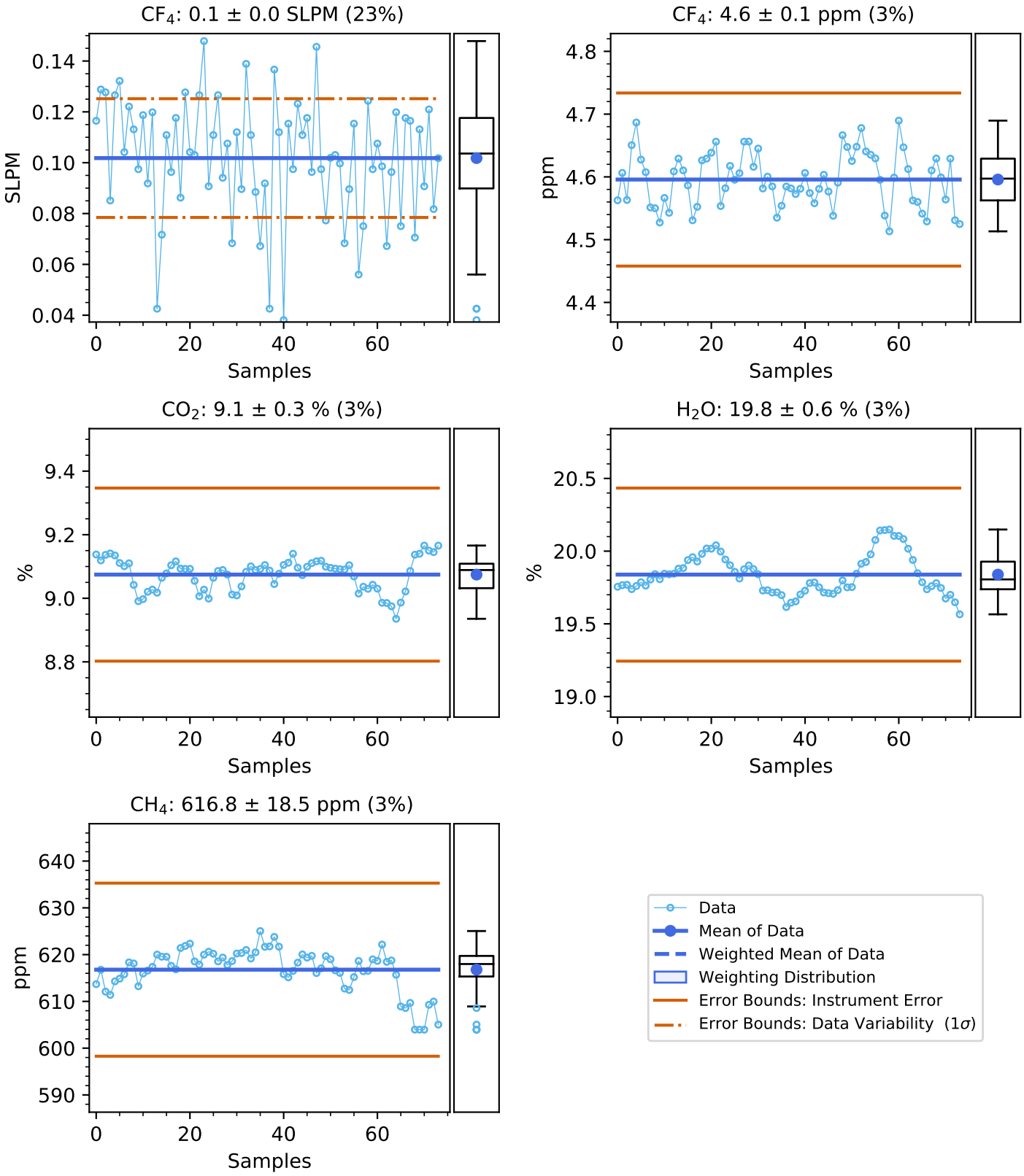
Facility: 2228 Unit: 1 Test: 1



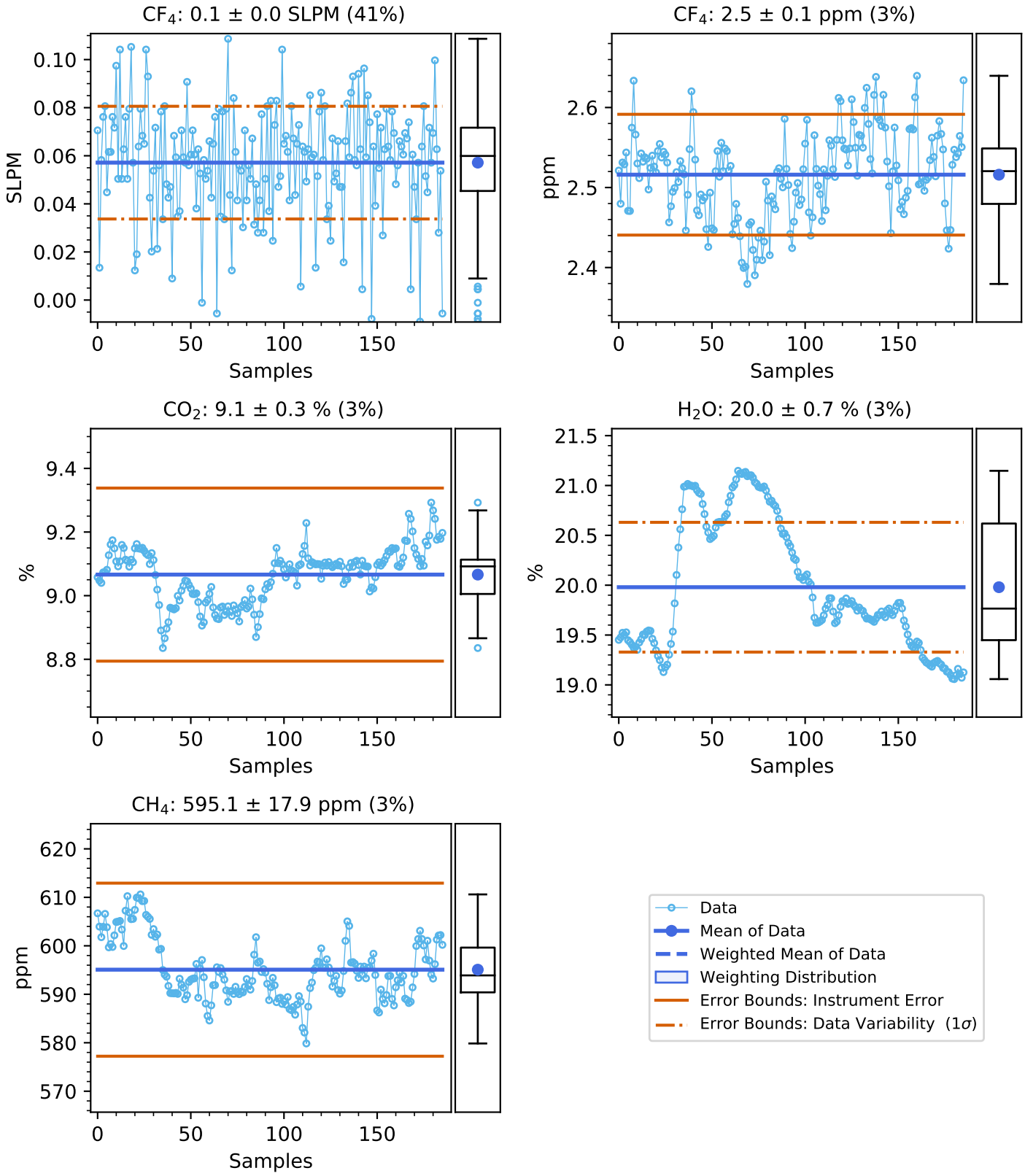
Facility: 2228 Unit: 1 Test: 2



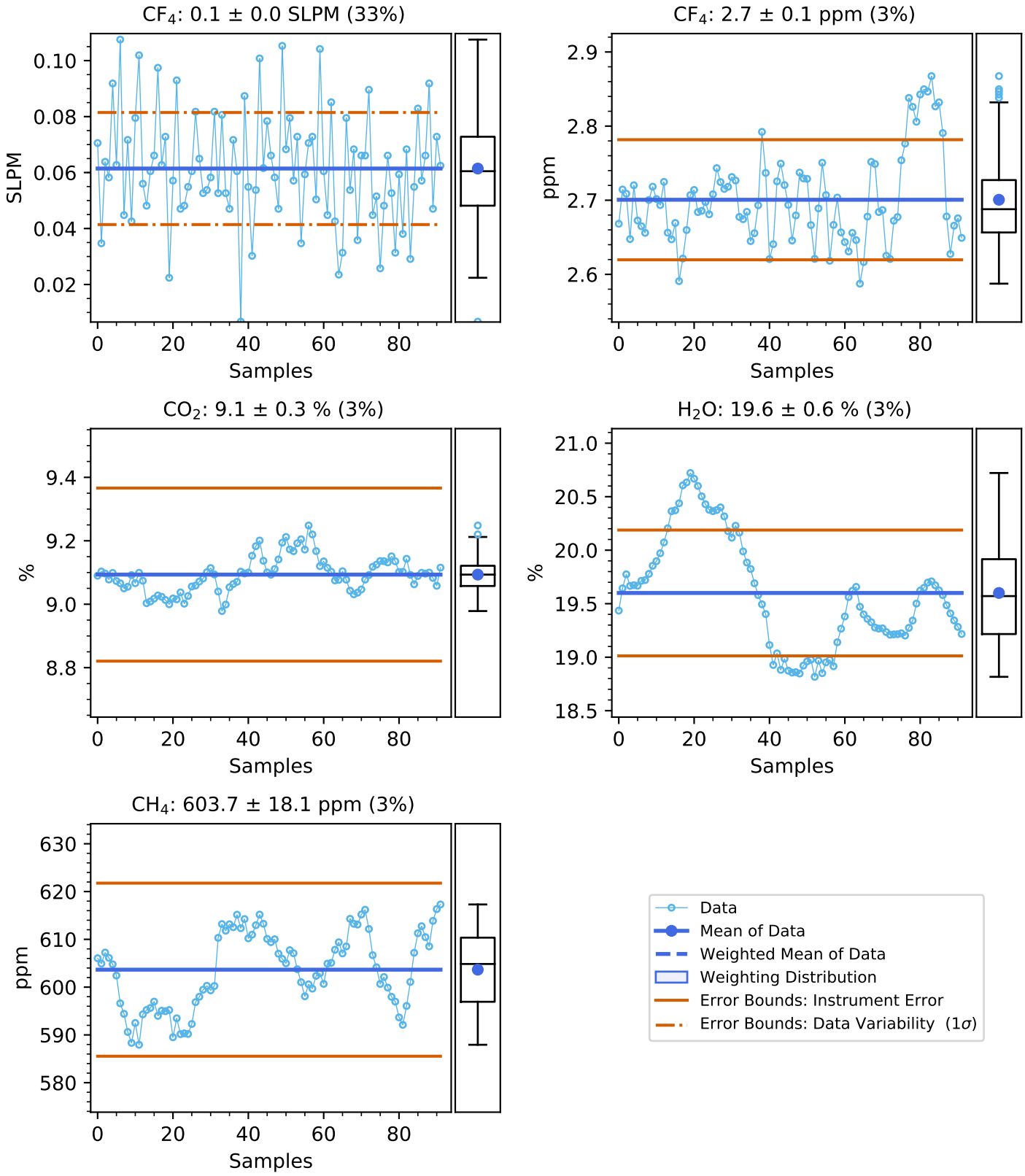
Facility: 2228 Unit: 1 Test: 3



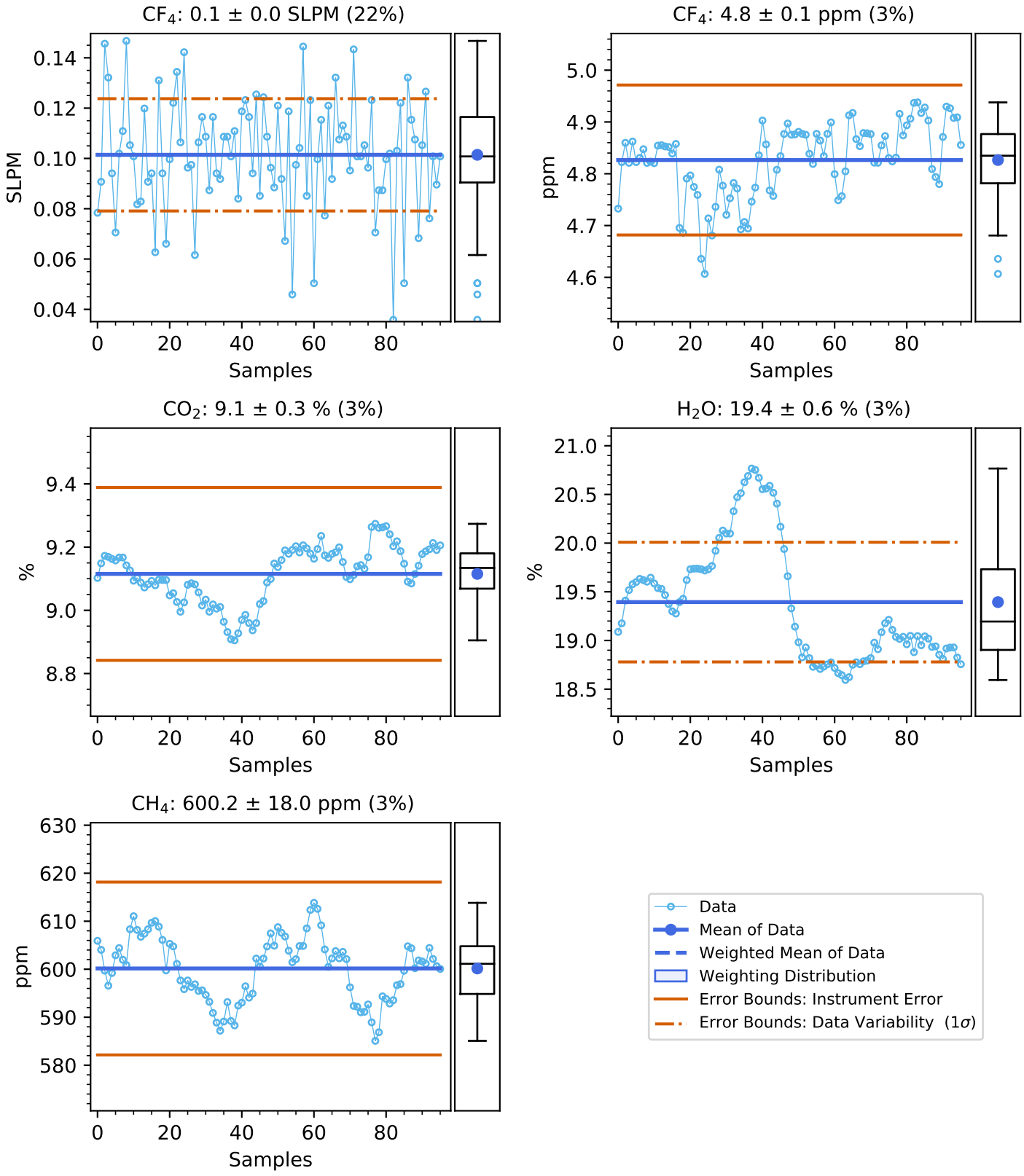
Facility: 2228 Unit: 1 Test: 4



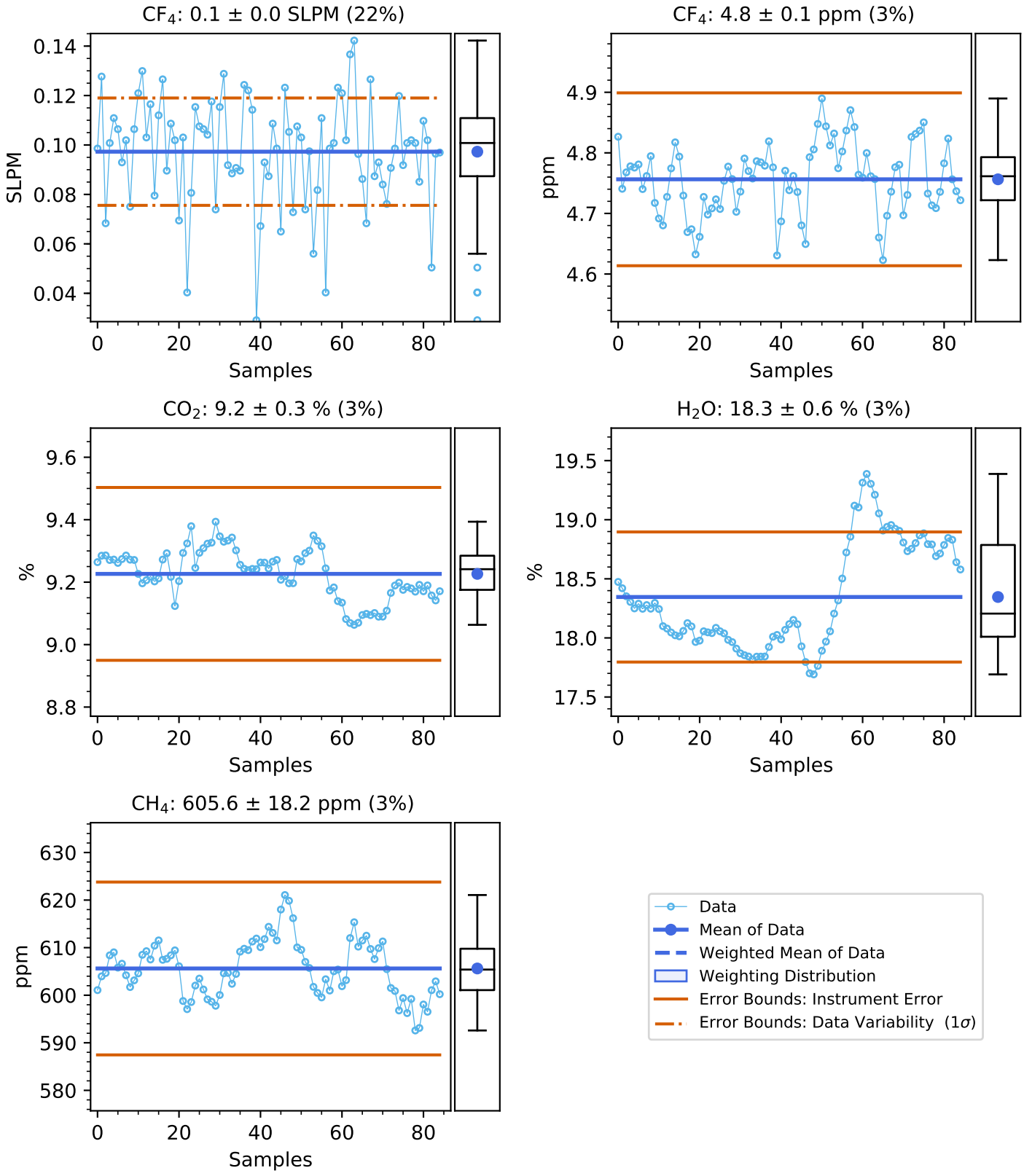
Facility: 2228 Unit: 1 Test: 5



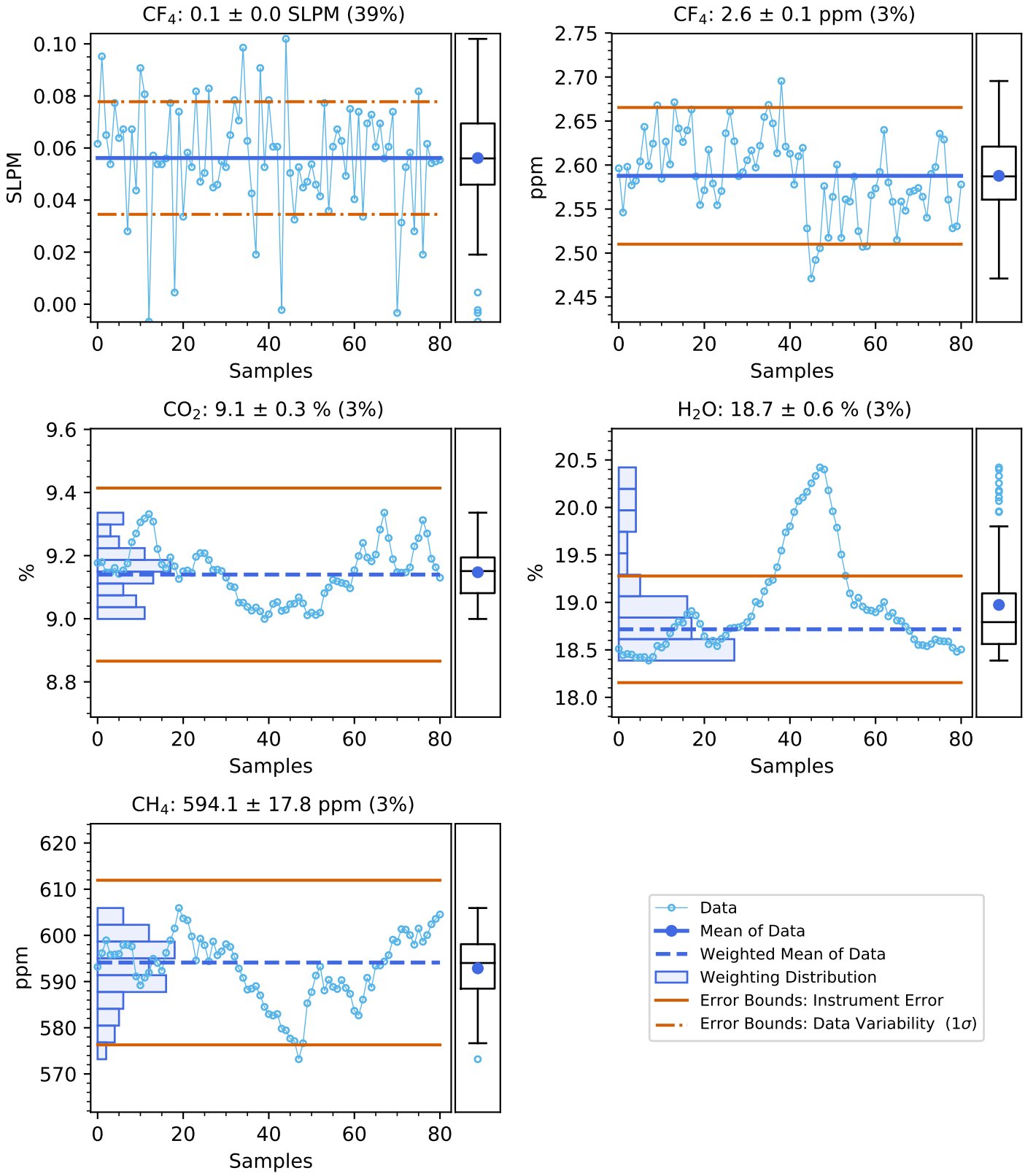
Facility: 2228 Unit: 1 Test: 6



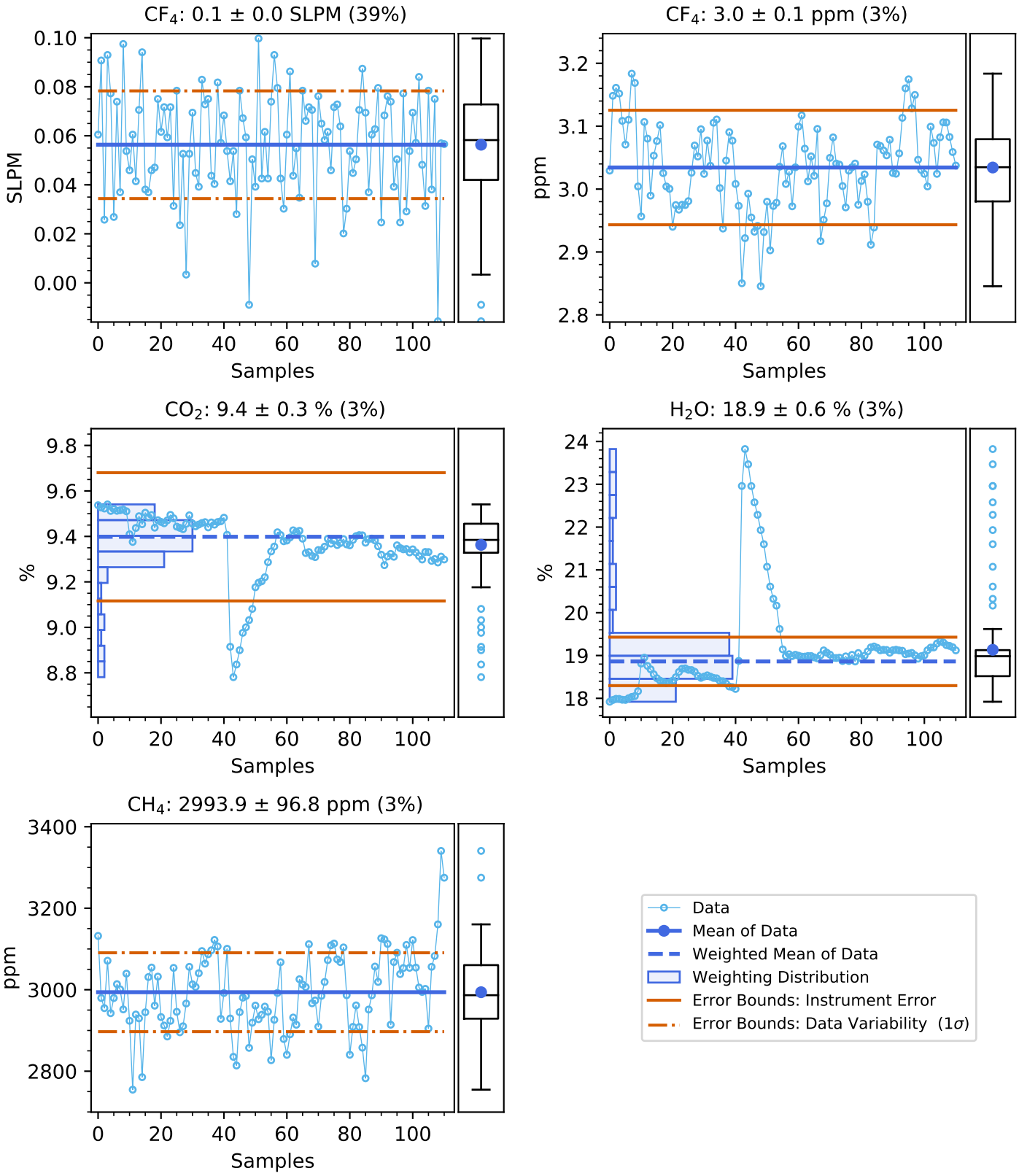
Facility: 2228 Unit: 1 Test: 7



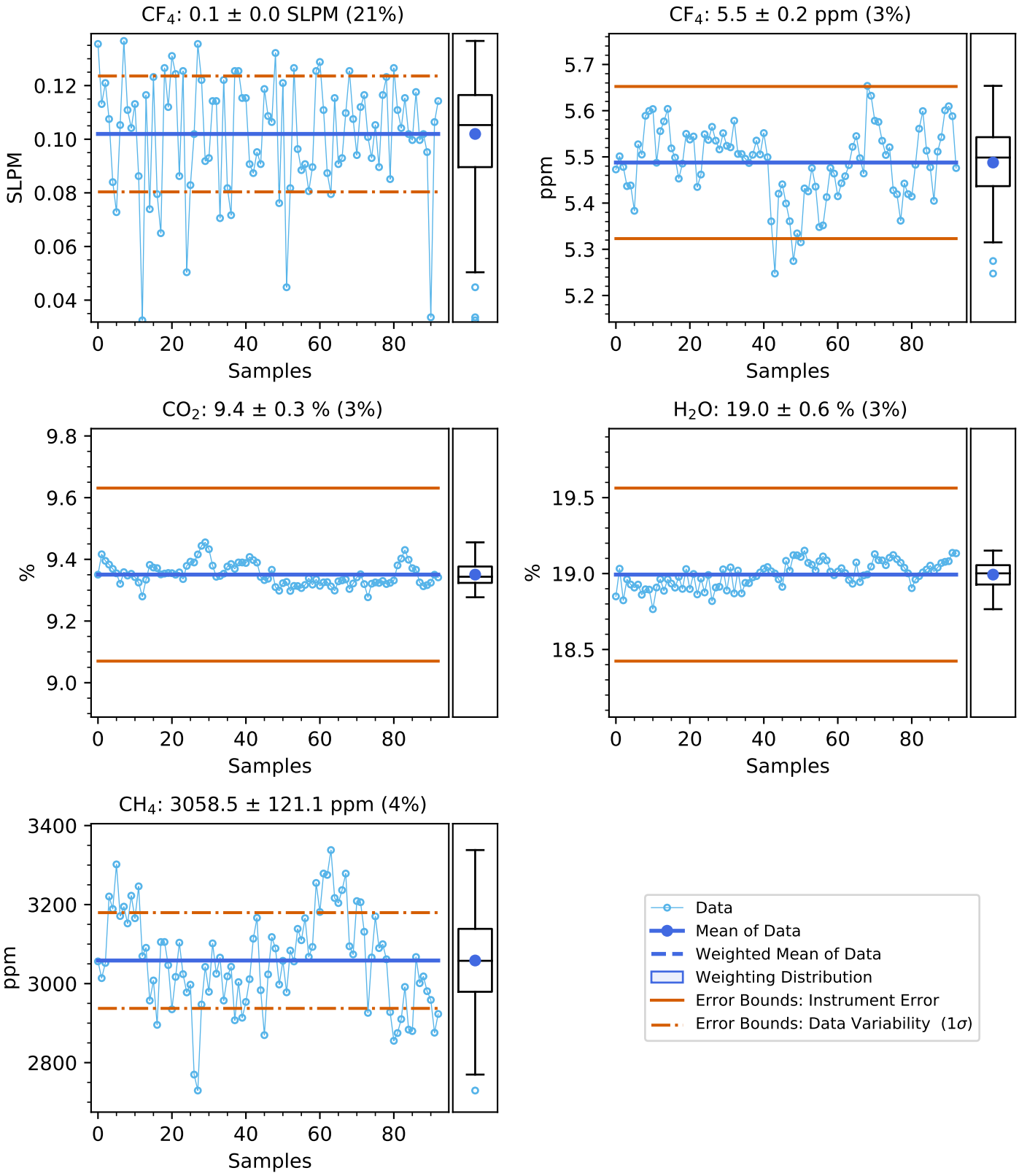
Facility: 2228 Unit: 1 Test: 8



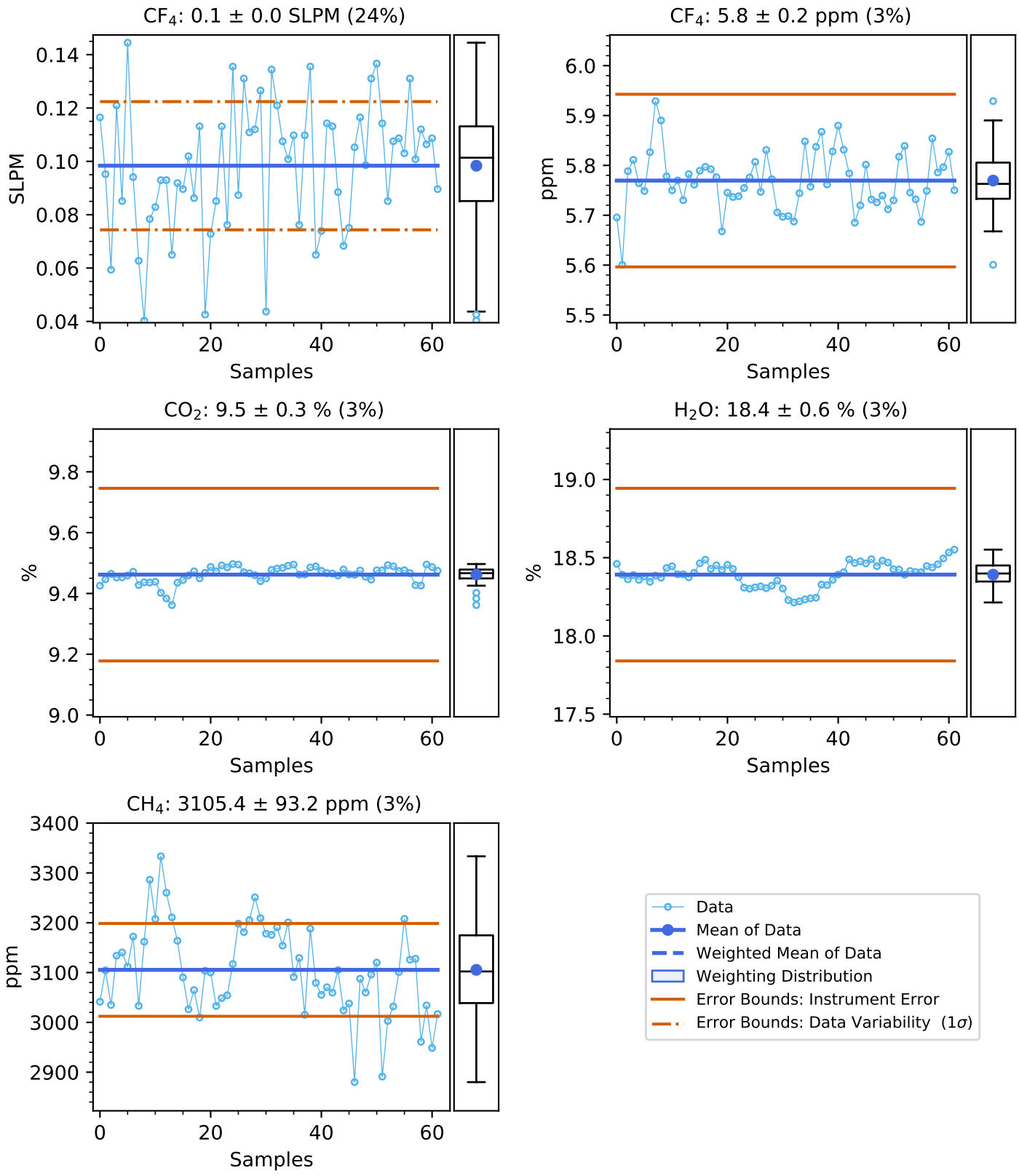
Facility: 1011 Unit: 1 Test: 1



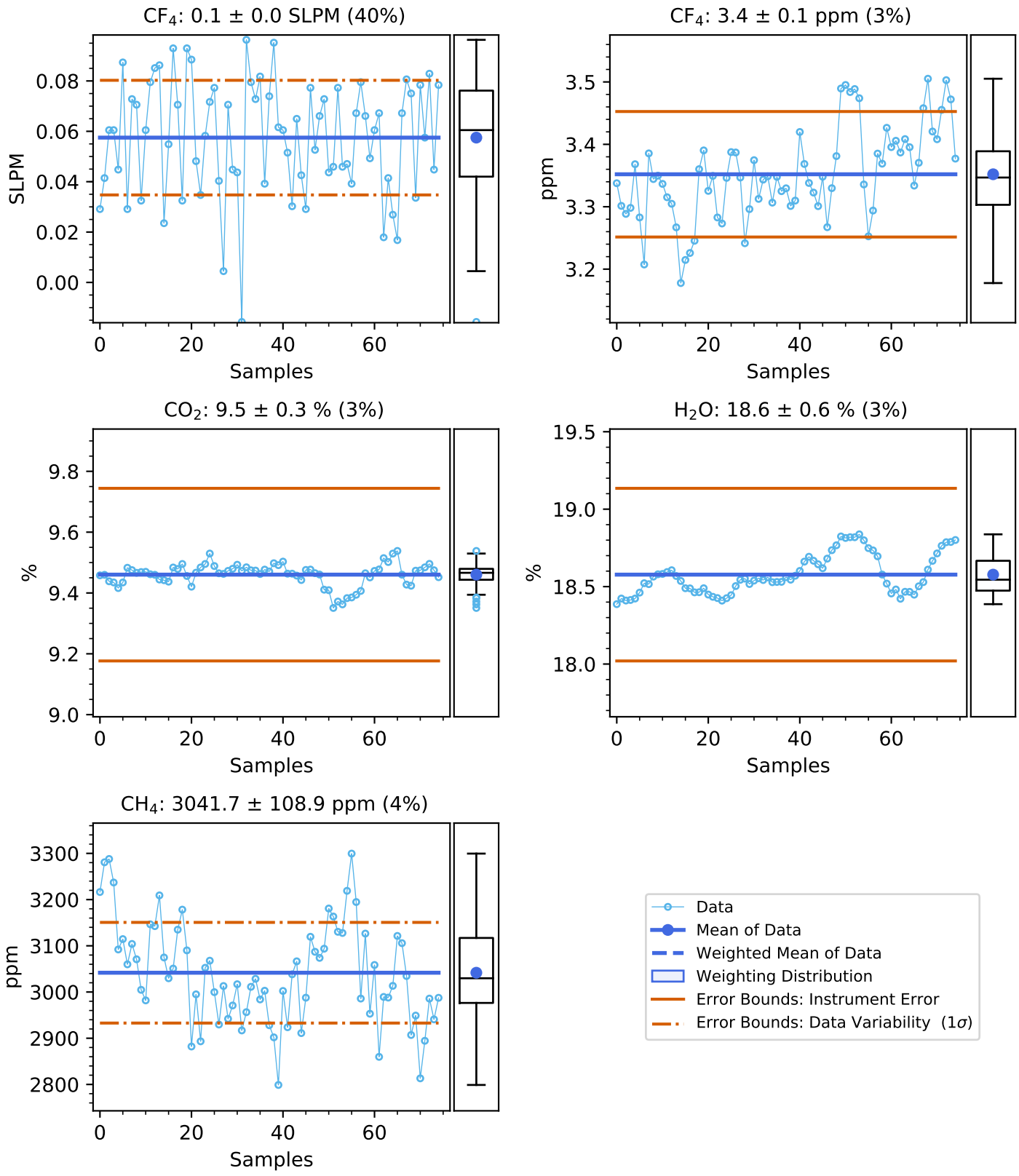
Facility: 1011 Unit: 1 Test: 2



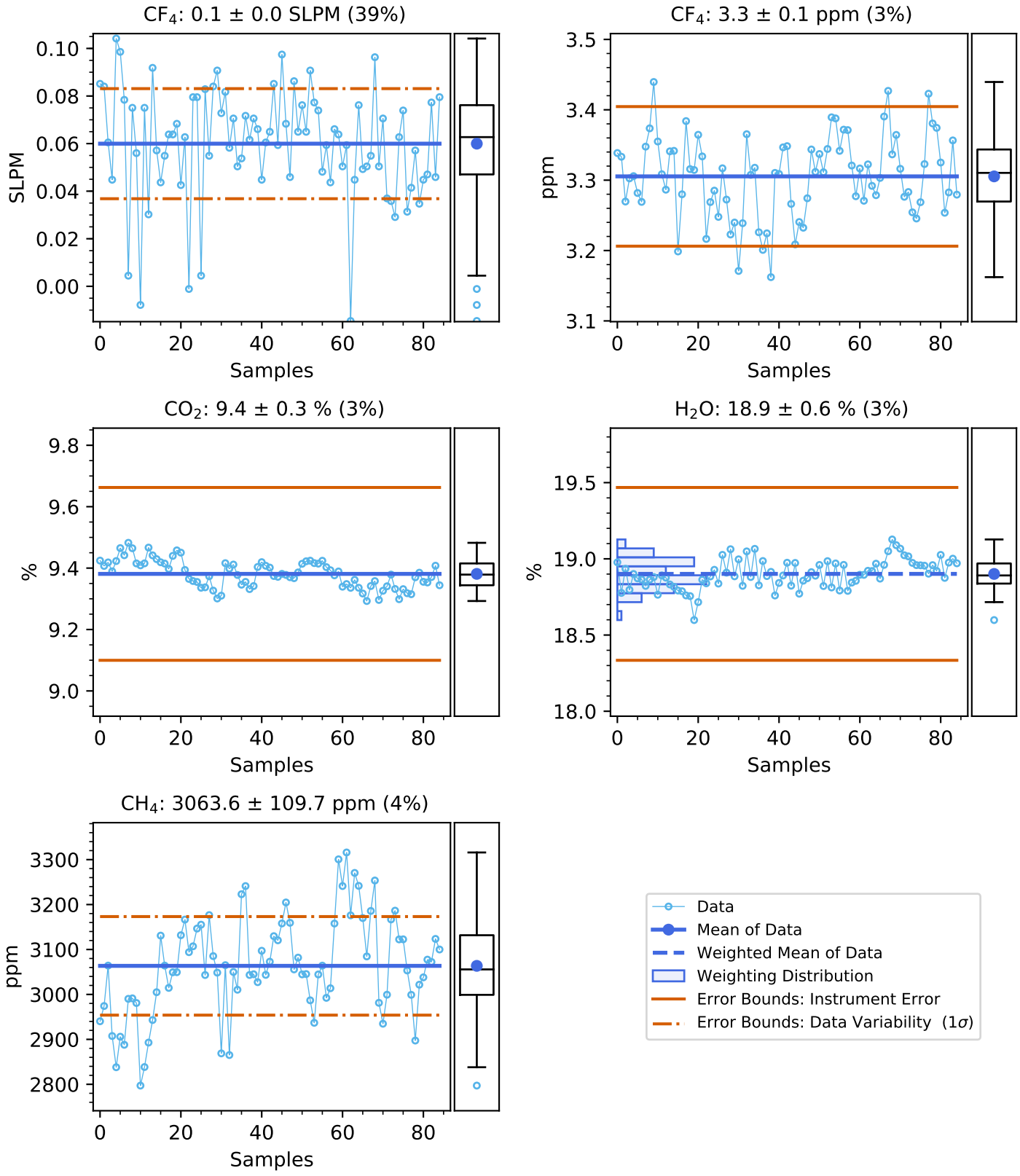
Facility: 1011 Unit: 1 Test: 3



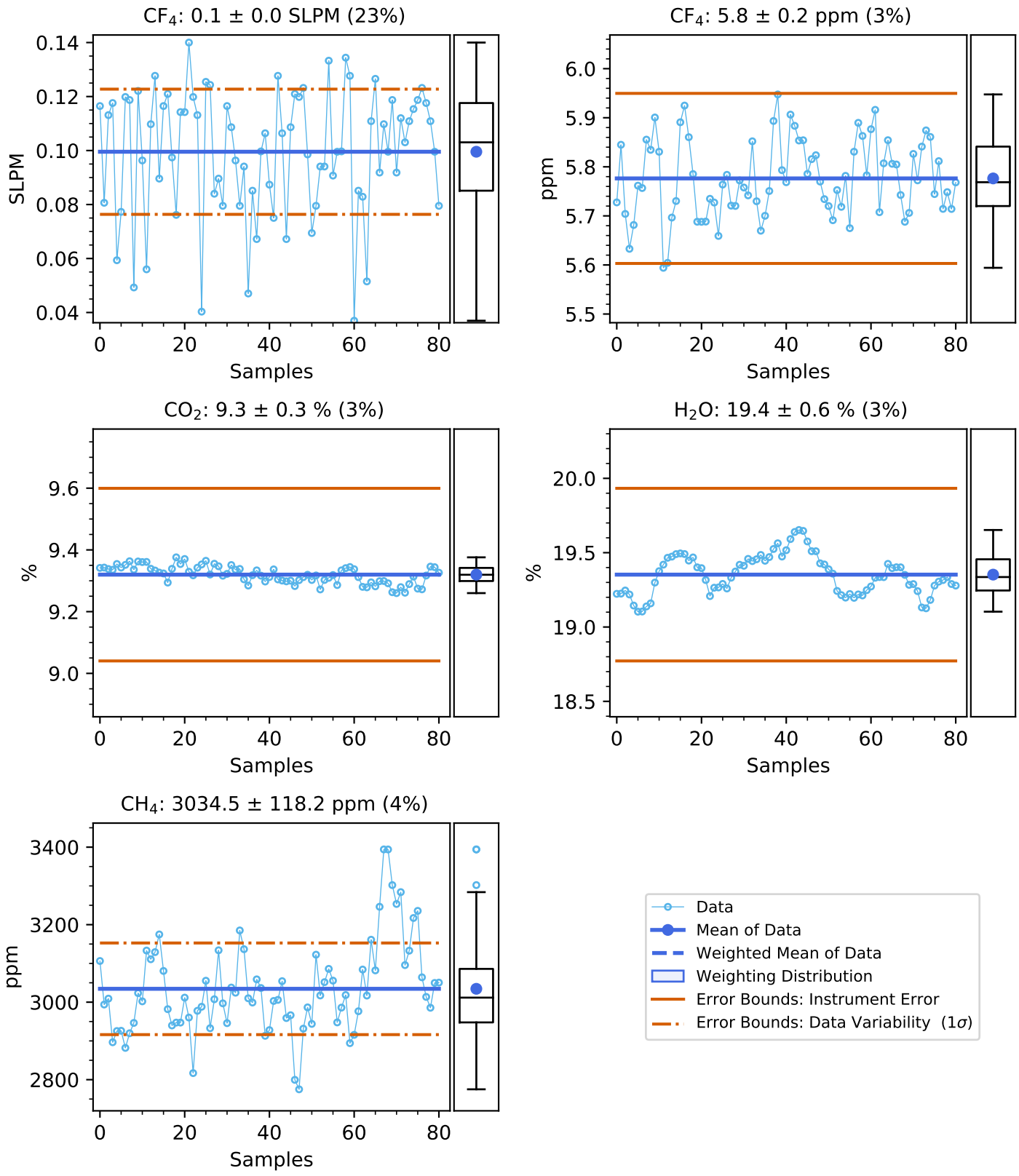
Facility: 1011 Unit: 1 Test: 4



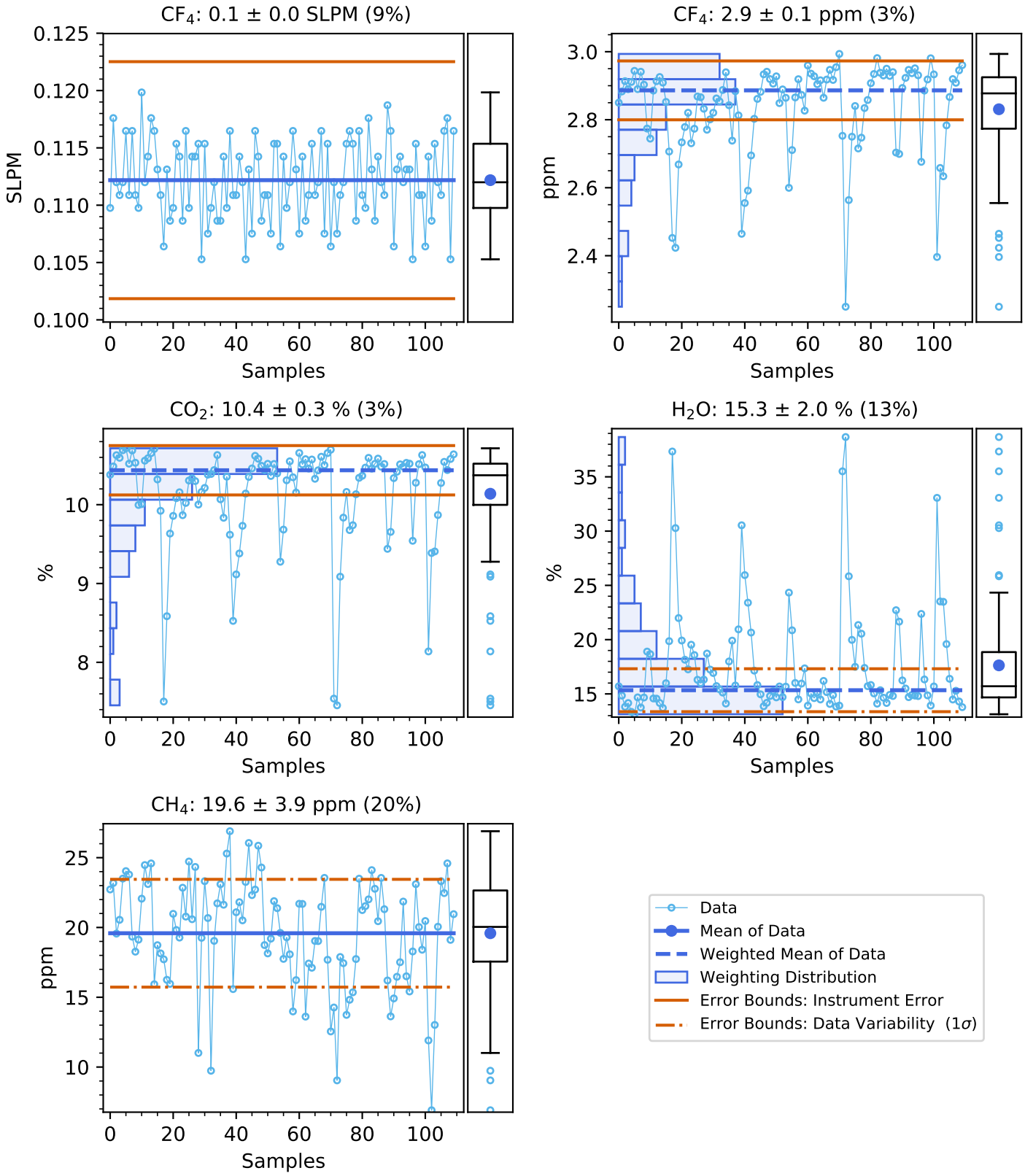
Facility: 1011 Unit: 1 Test: 5



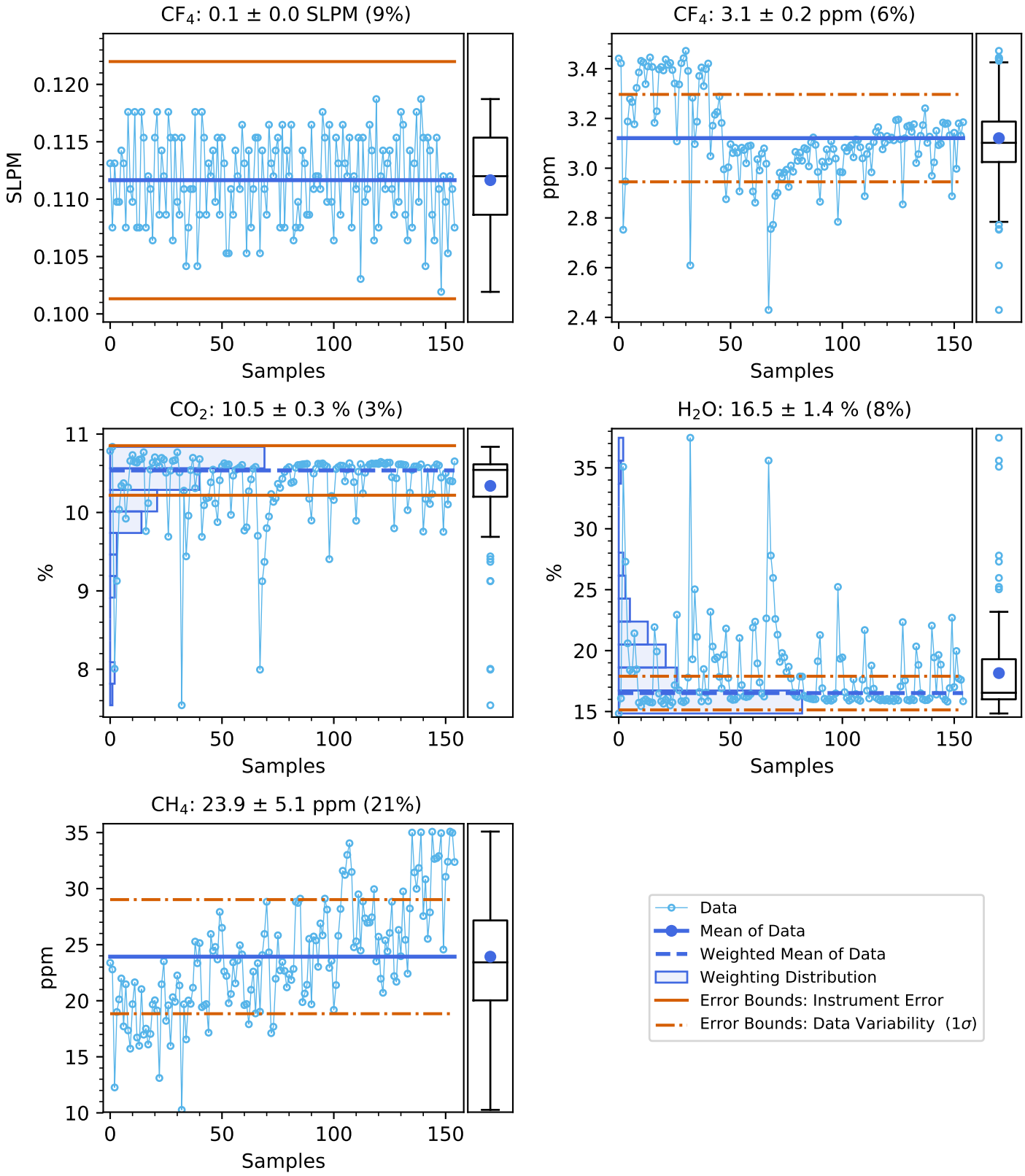
Facility: 1011 Unit: 1 Test: 6



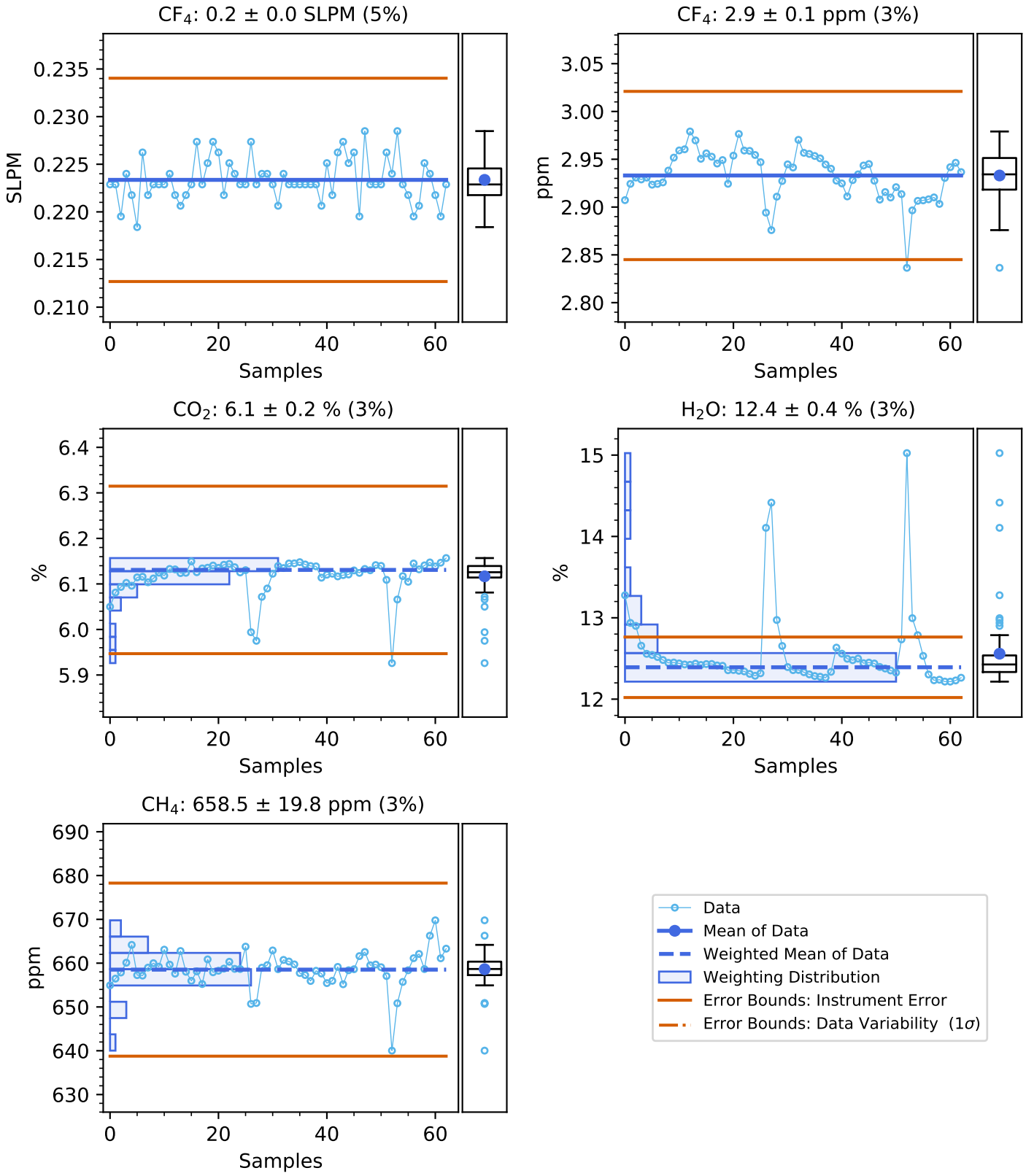
Facility: 1488 Unit: 1 Test: 1



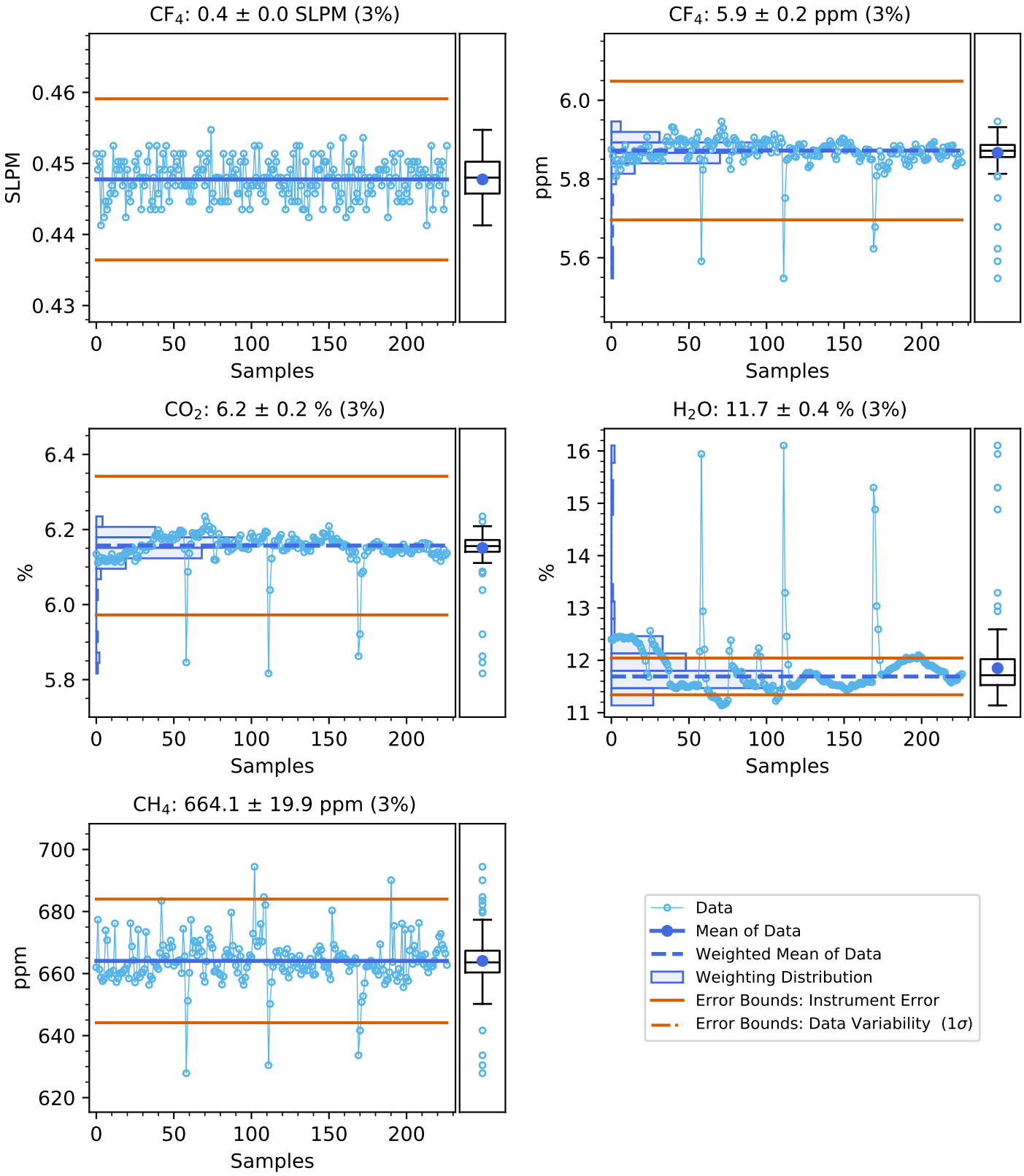
Facility: 1488 Unit: 1 Test: 2



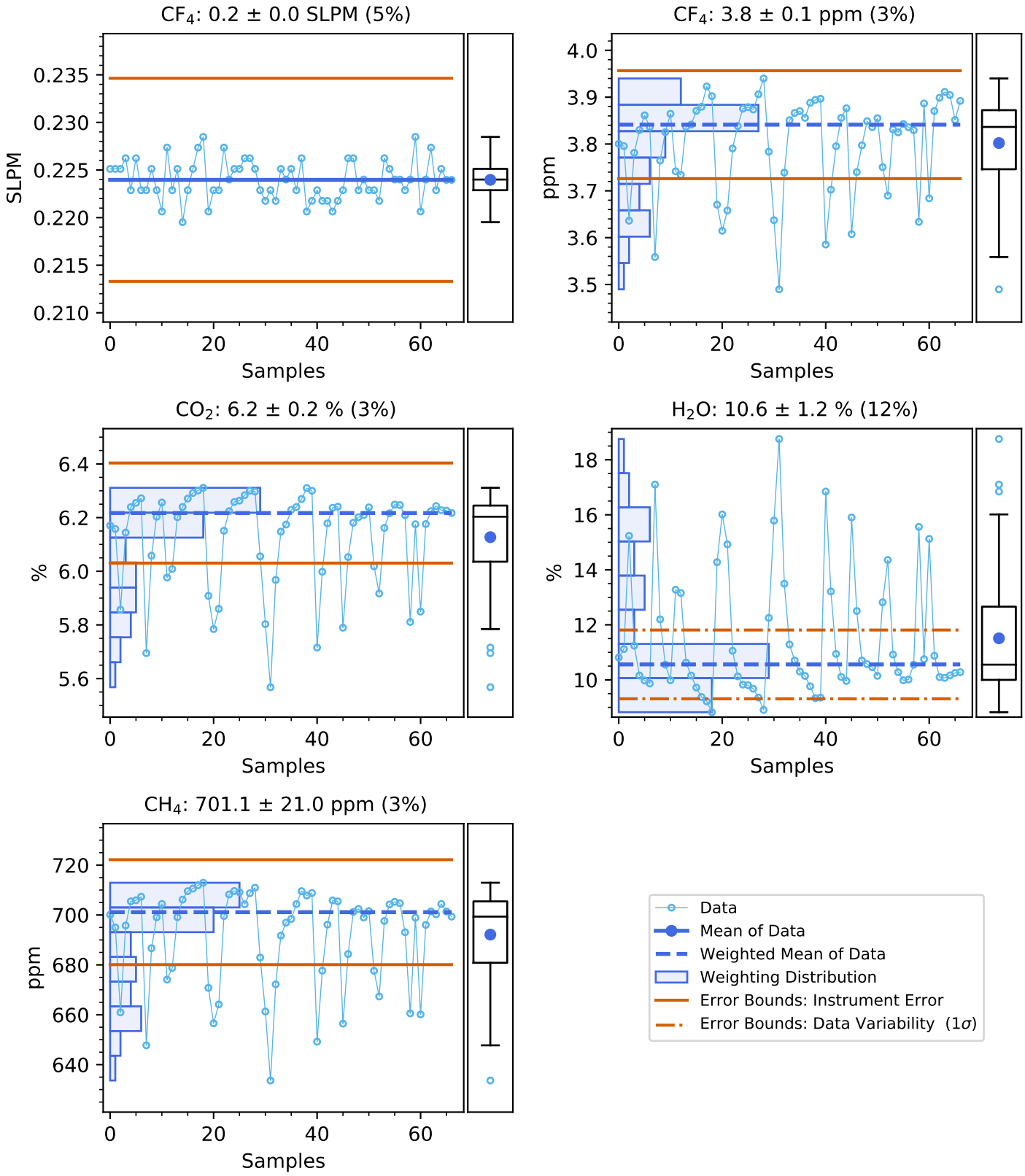
Facility: 1895 Unit: 1 Test: 1



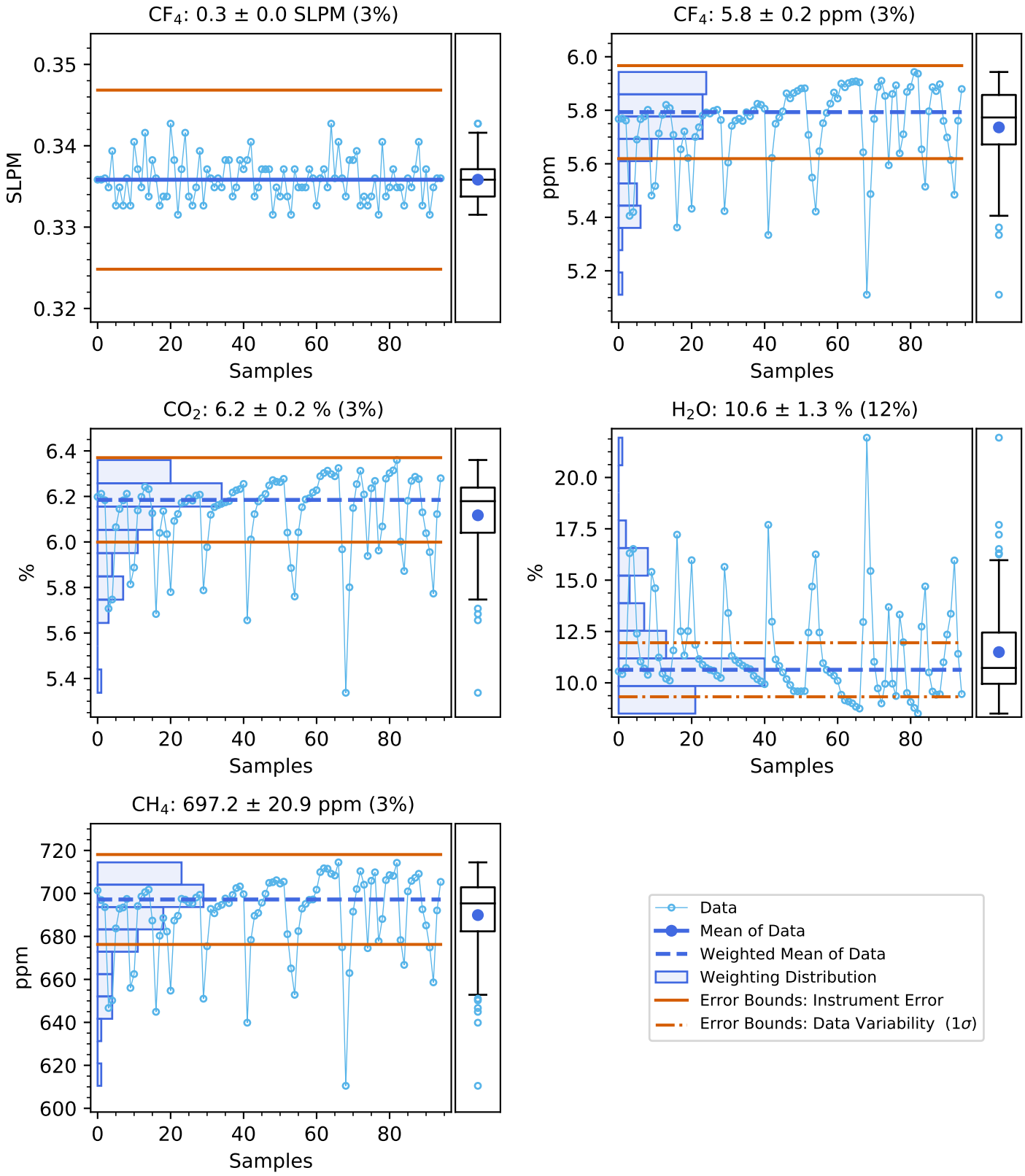
Facility: 1895 Unit: 1 Test: 2



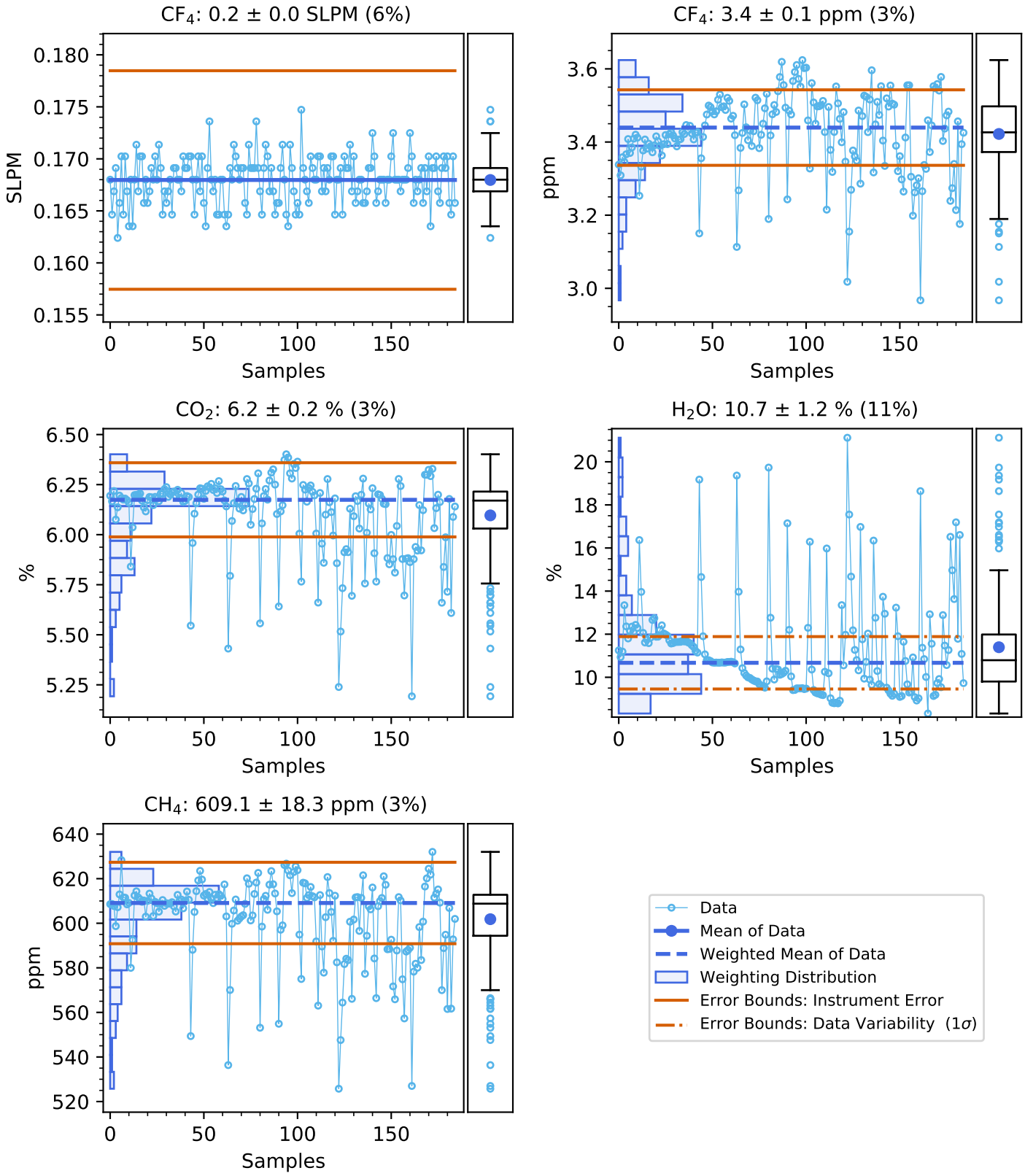
Facility: 1895 Unit: 2 Test: 1



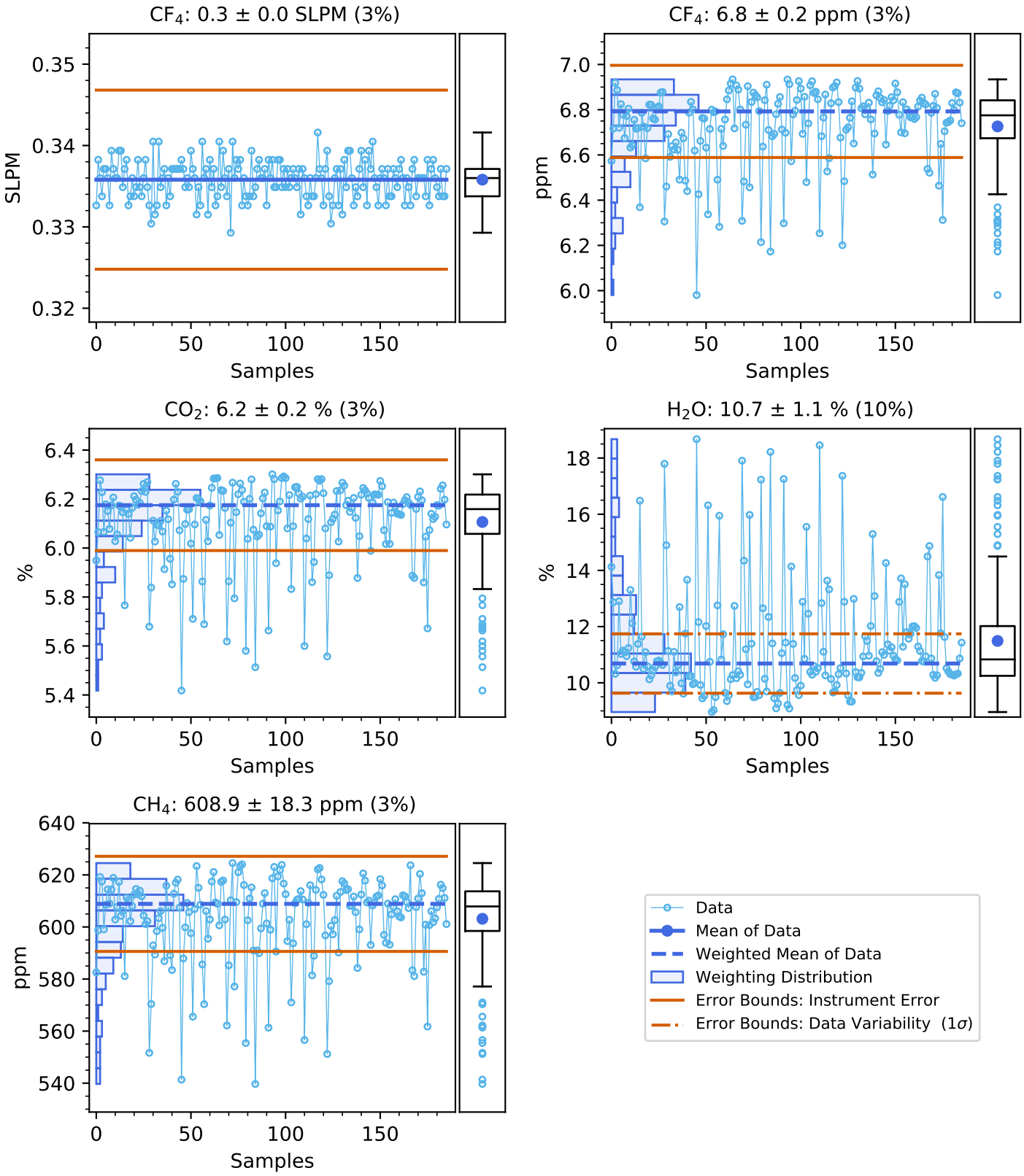
Facility: 1895 Unit: 2 Test: 2



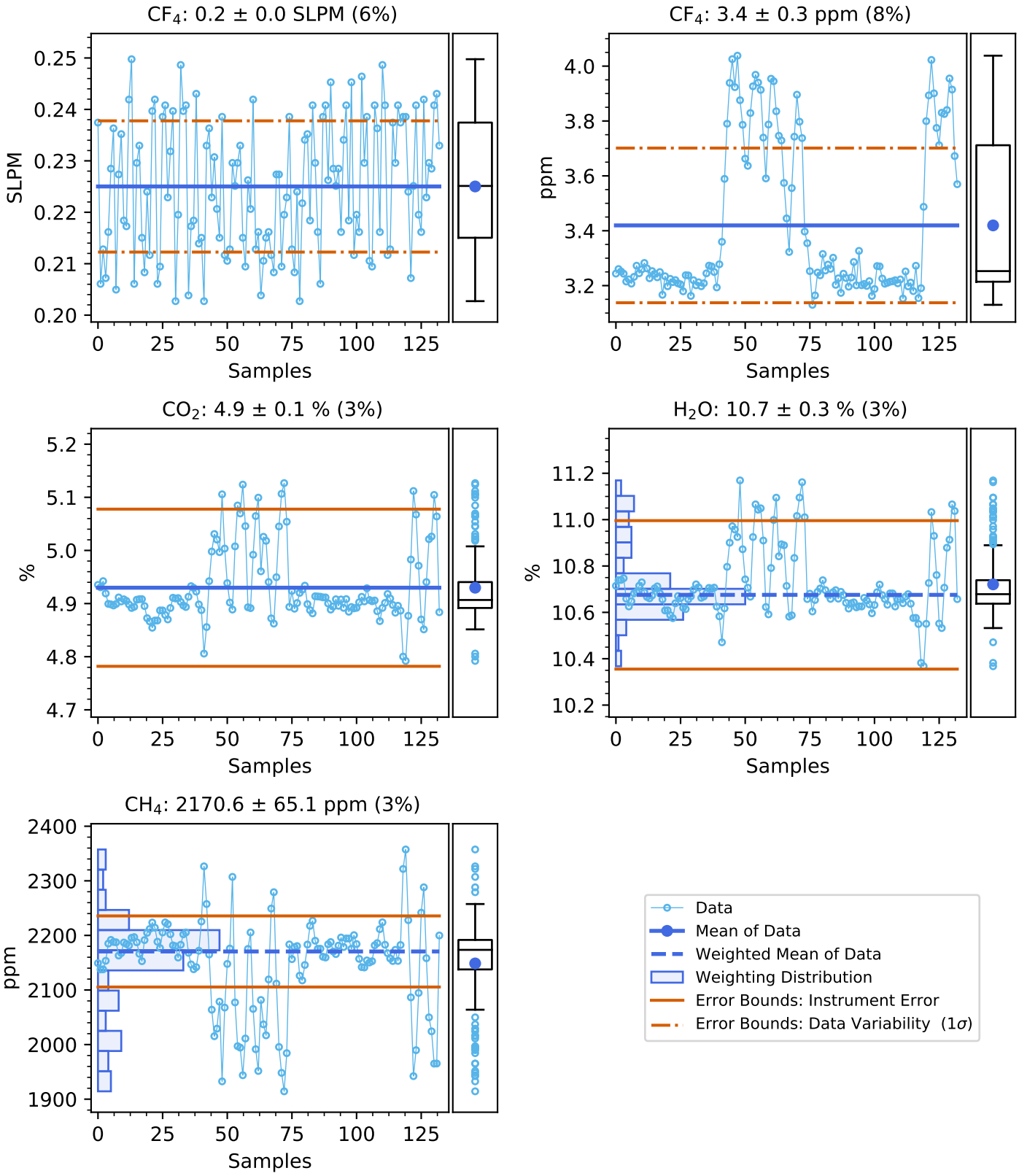
Facility: 1895 Unit: 3 Test: 1



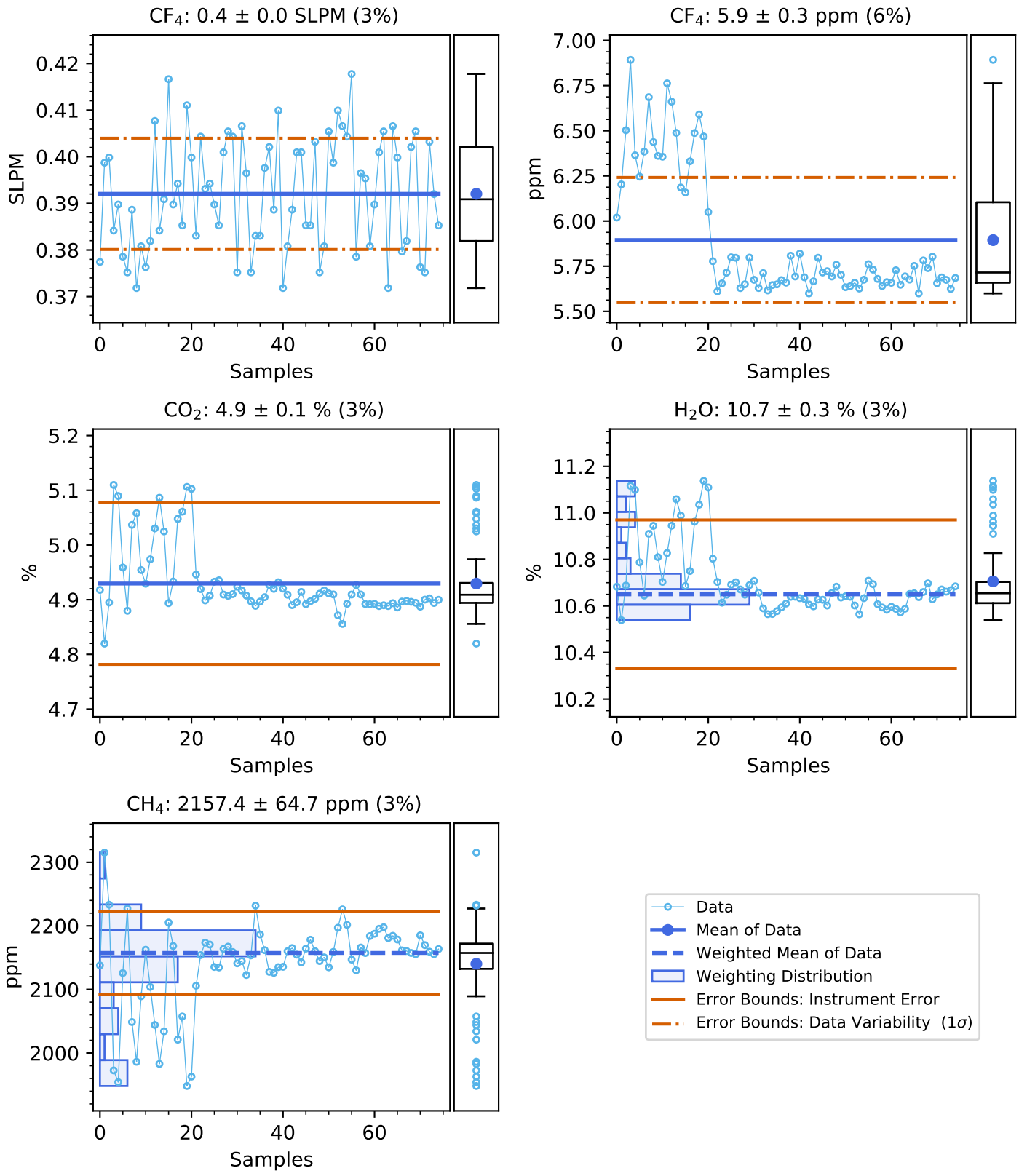
Facility: 1895 Unit: 3 Test: 2



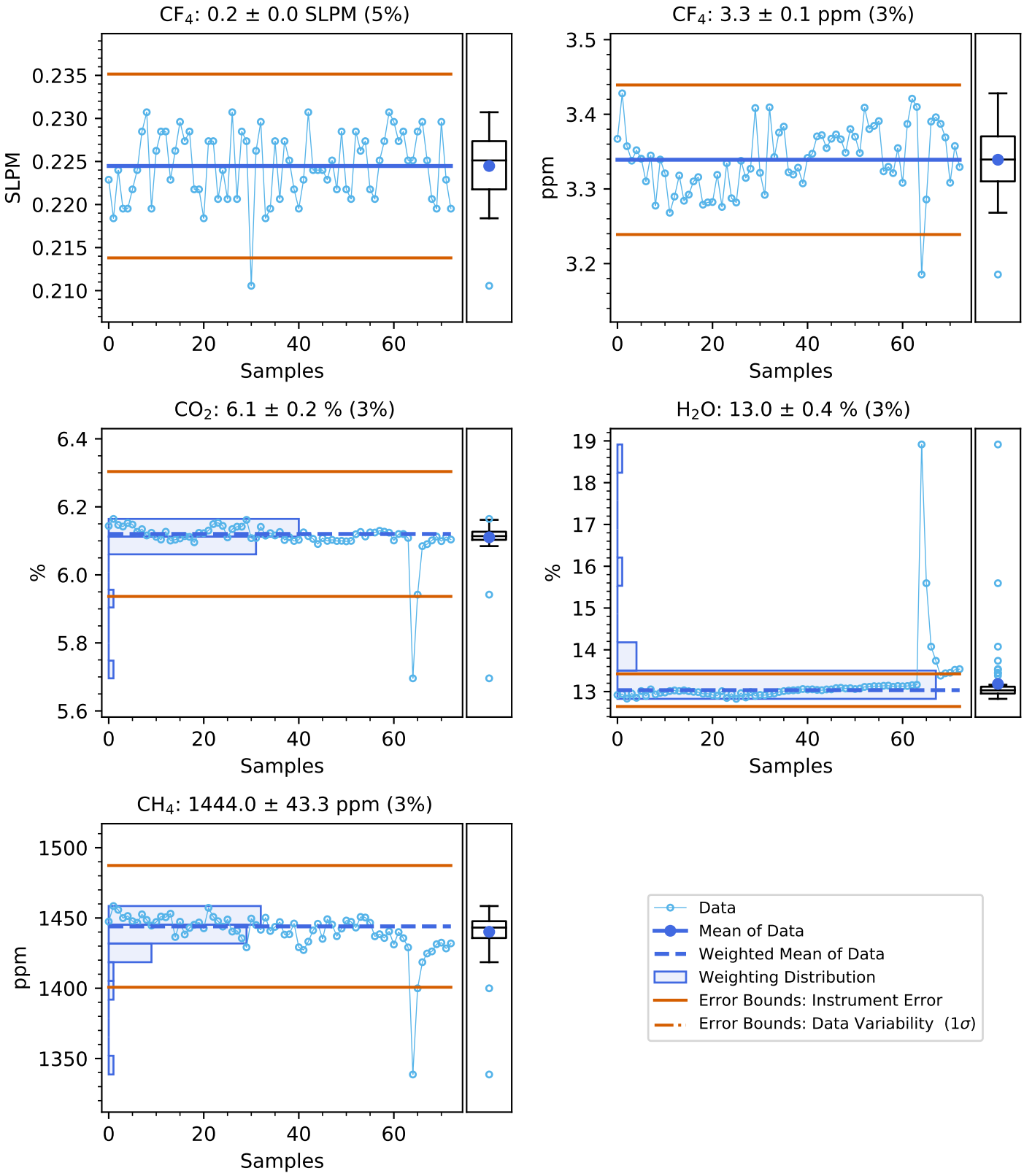
Facility: 705 Unit: 1 Test: 1



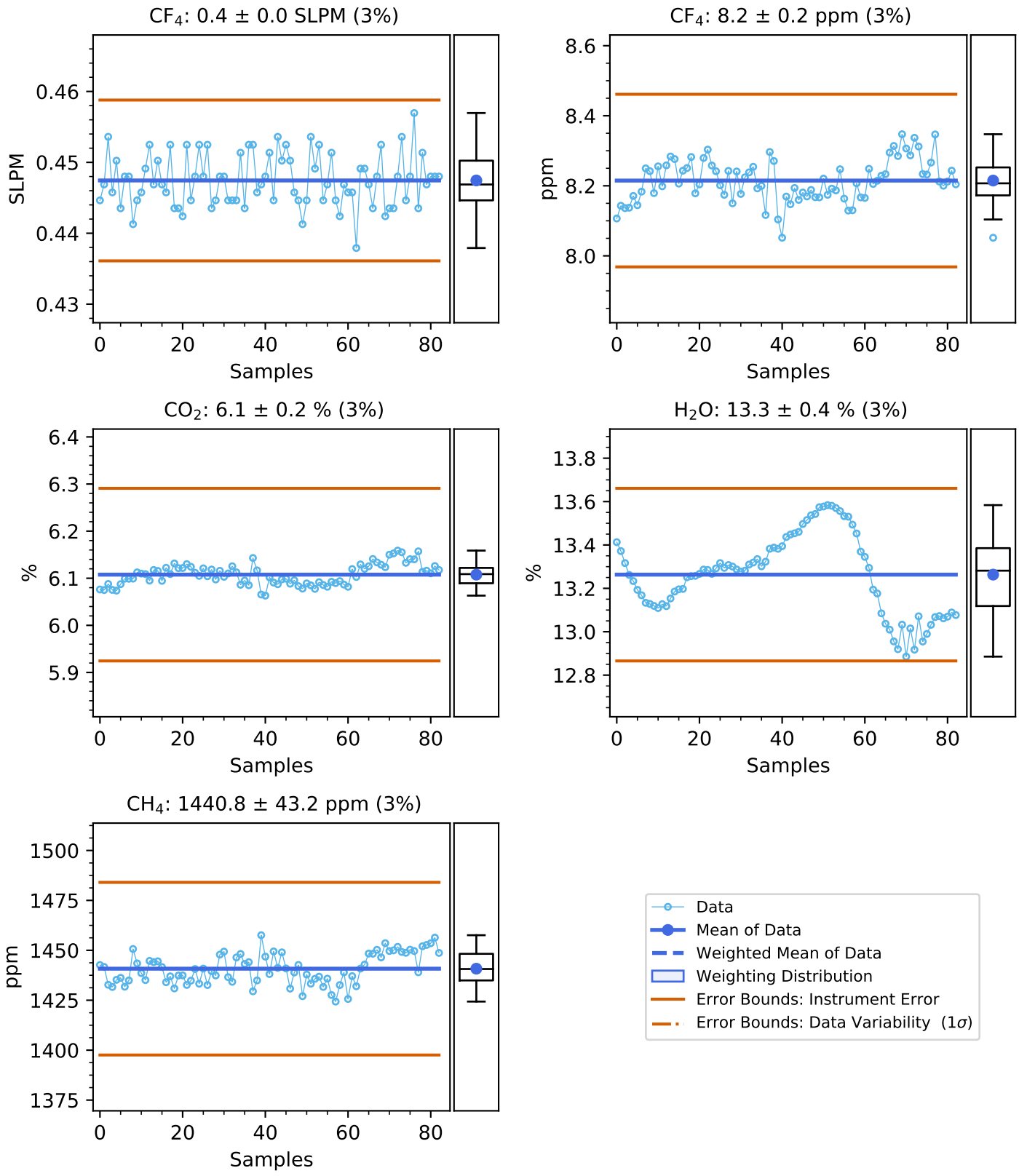
Facility: 705 Unit: 1 Test: 2



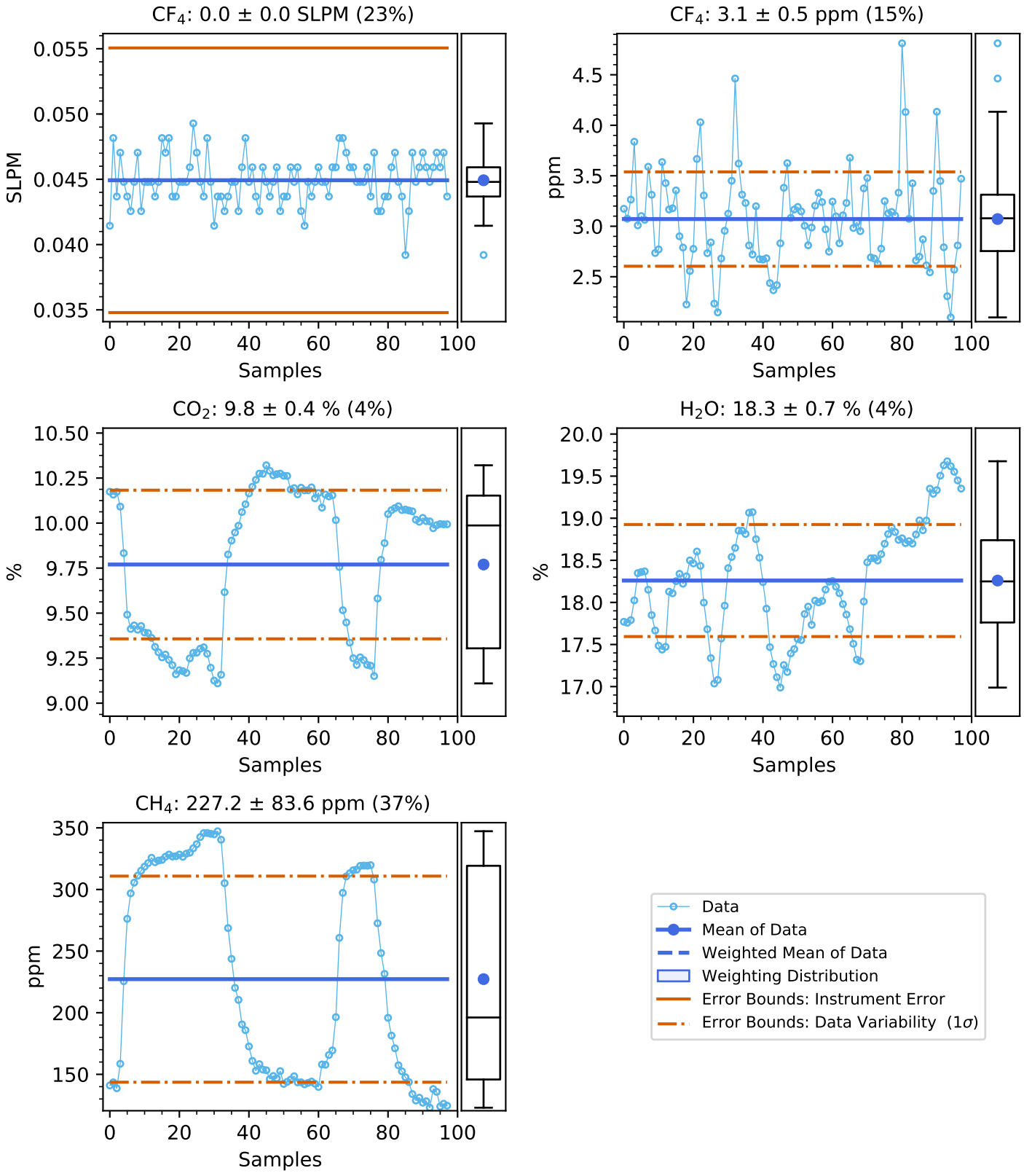
Facility: 705 Unit: 3 Test: 1



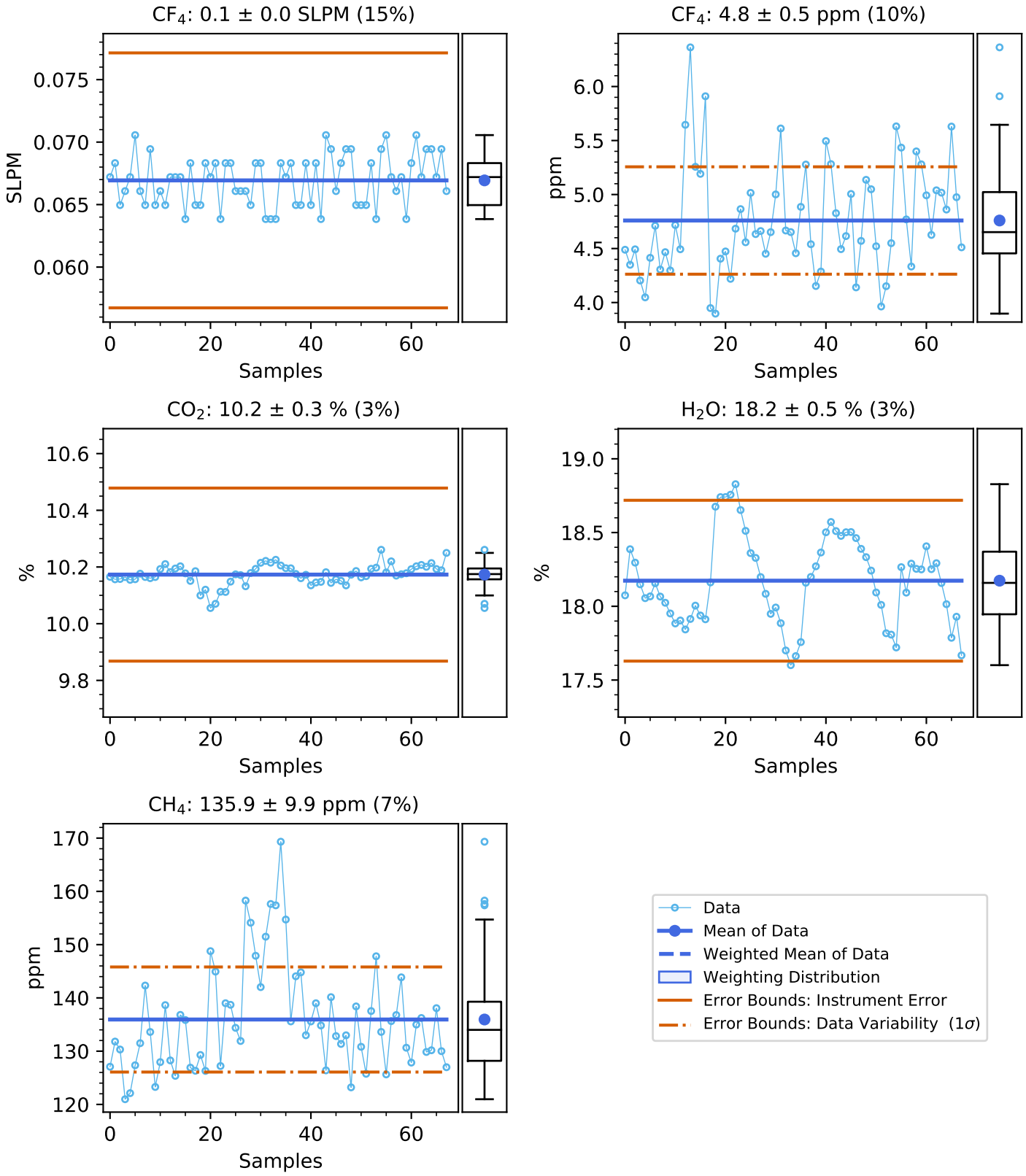
Facility: 705 Unit: 3 Test: 2



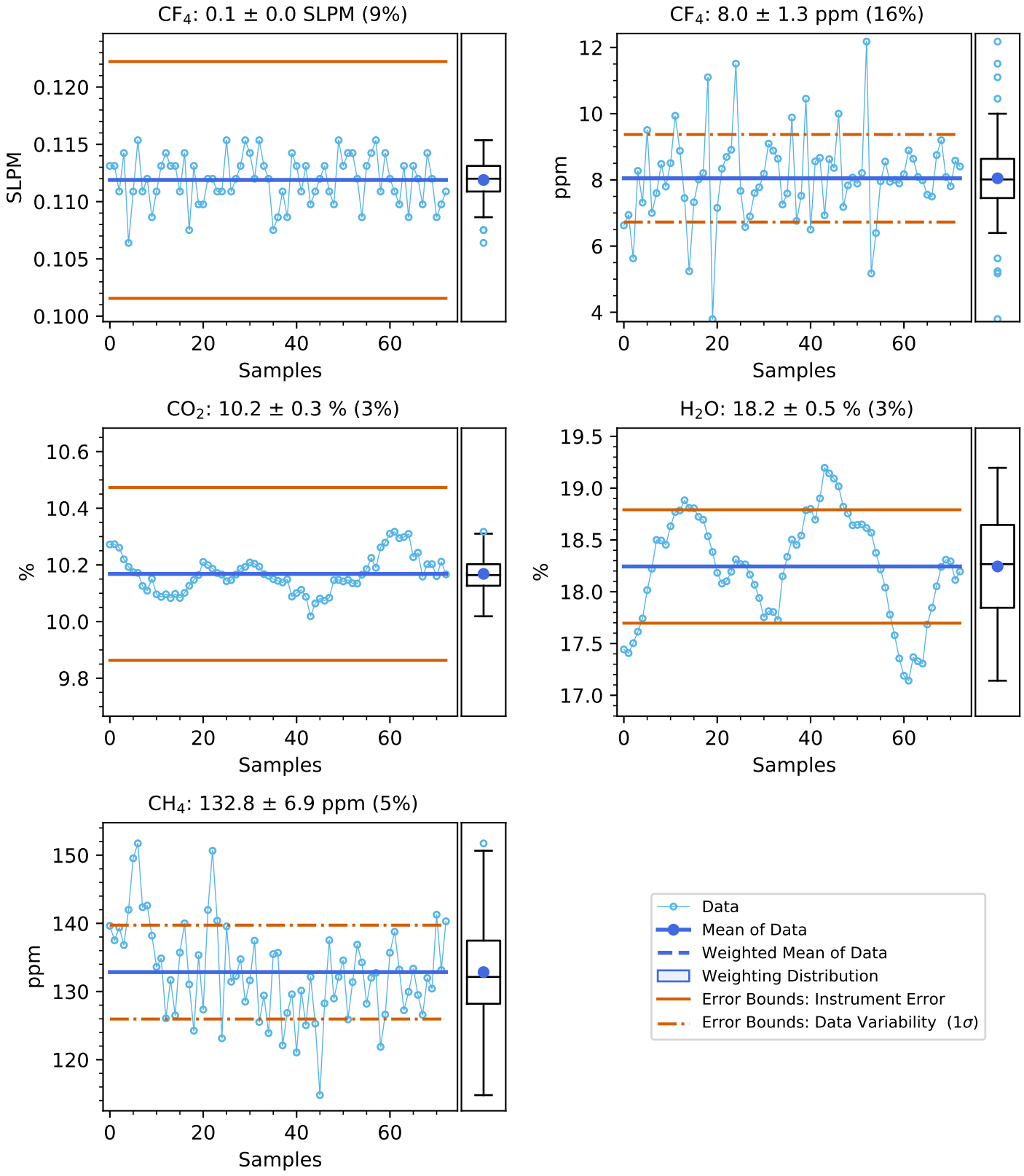
Facility: 2316 Unit: 1 Test: 1



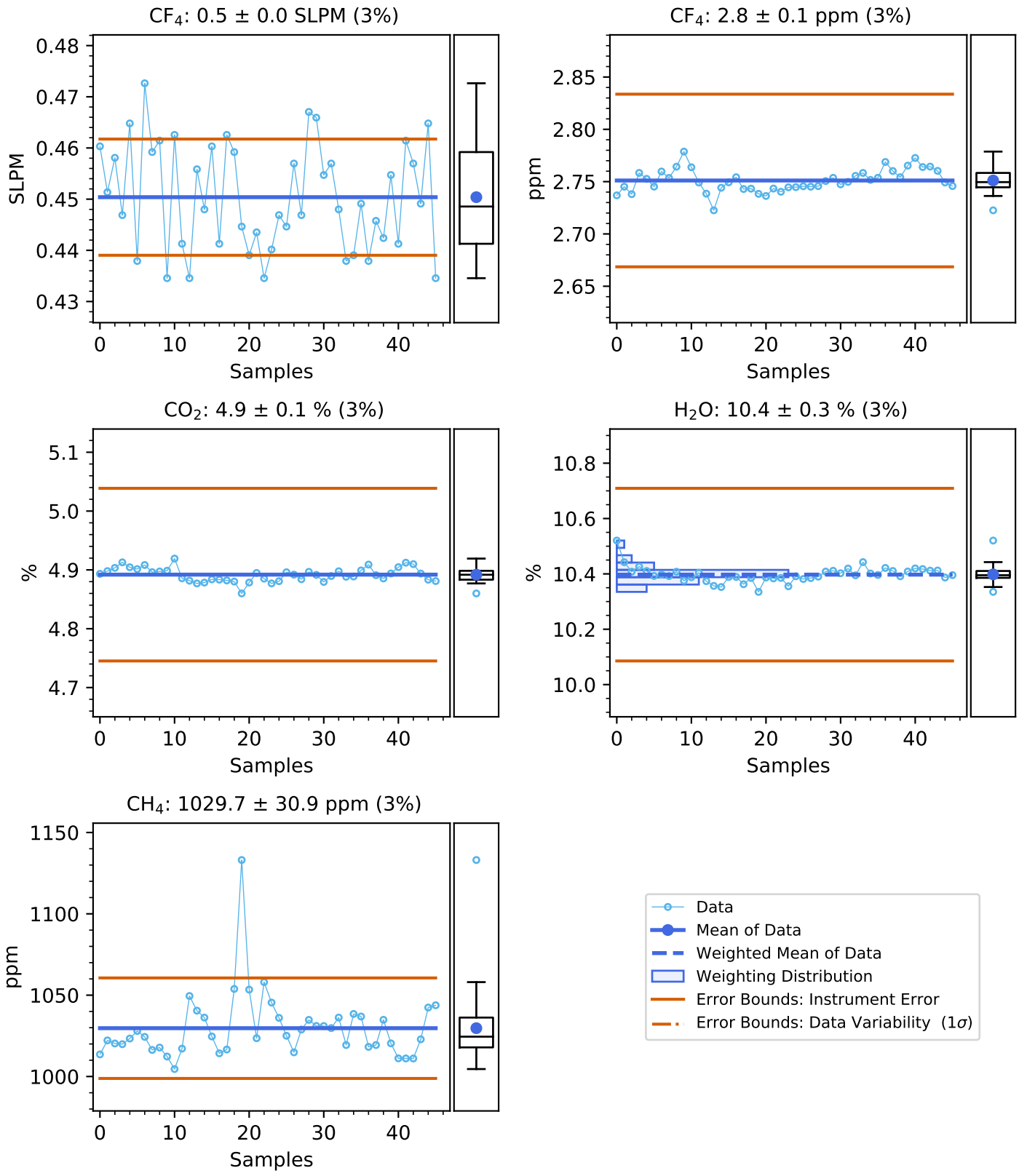
Facility: 2316 Unit: 1 Test: 2



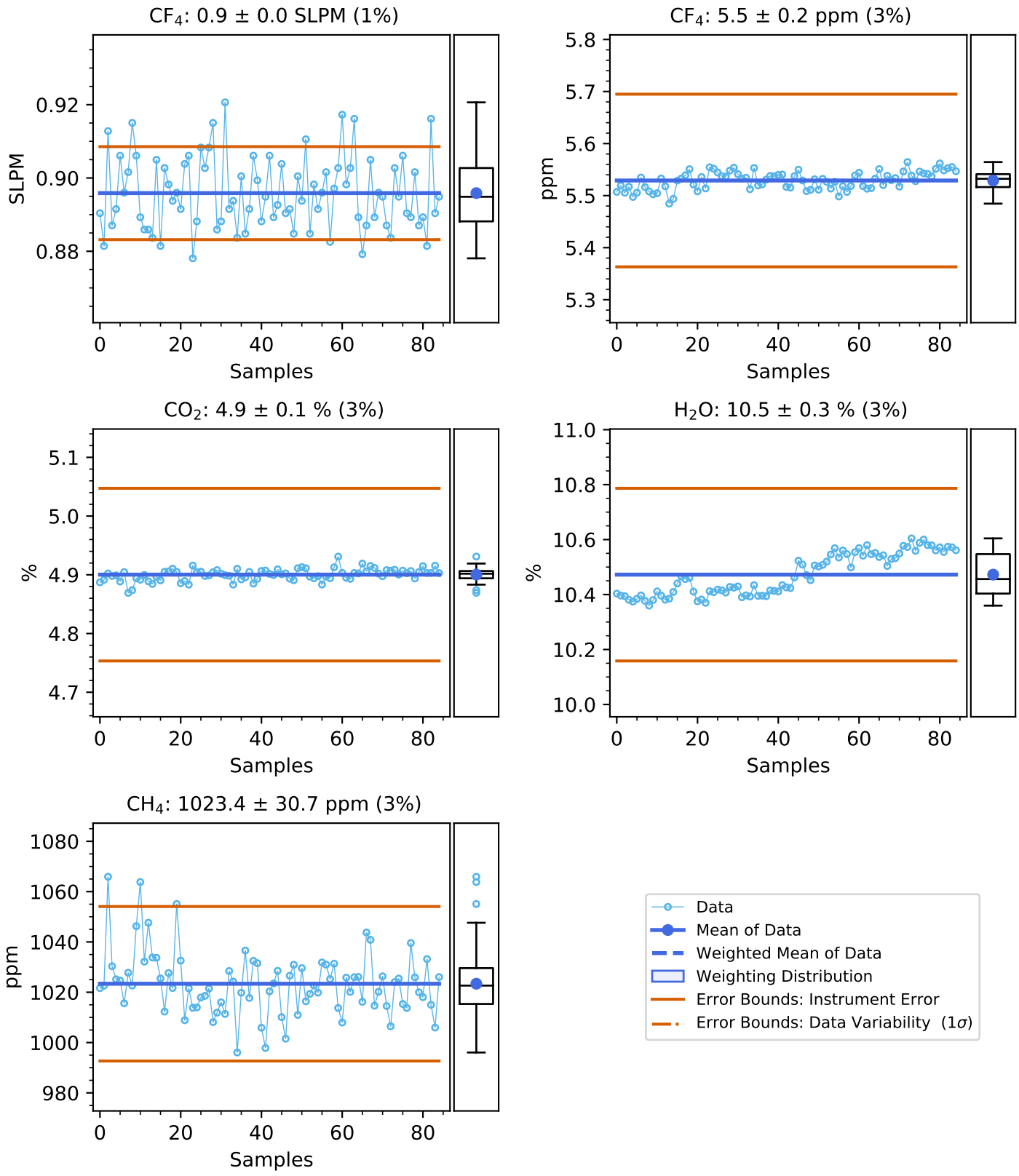
Facility: 2316 Unit: 1 Test: 3



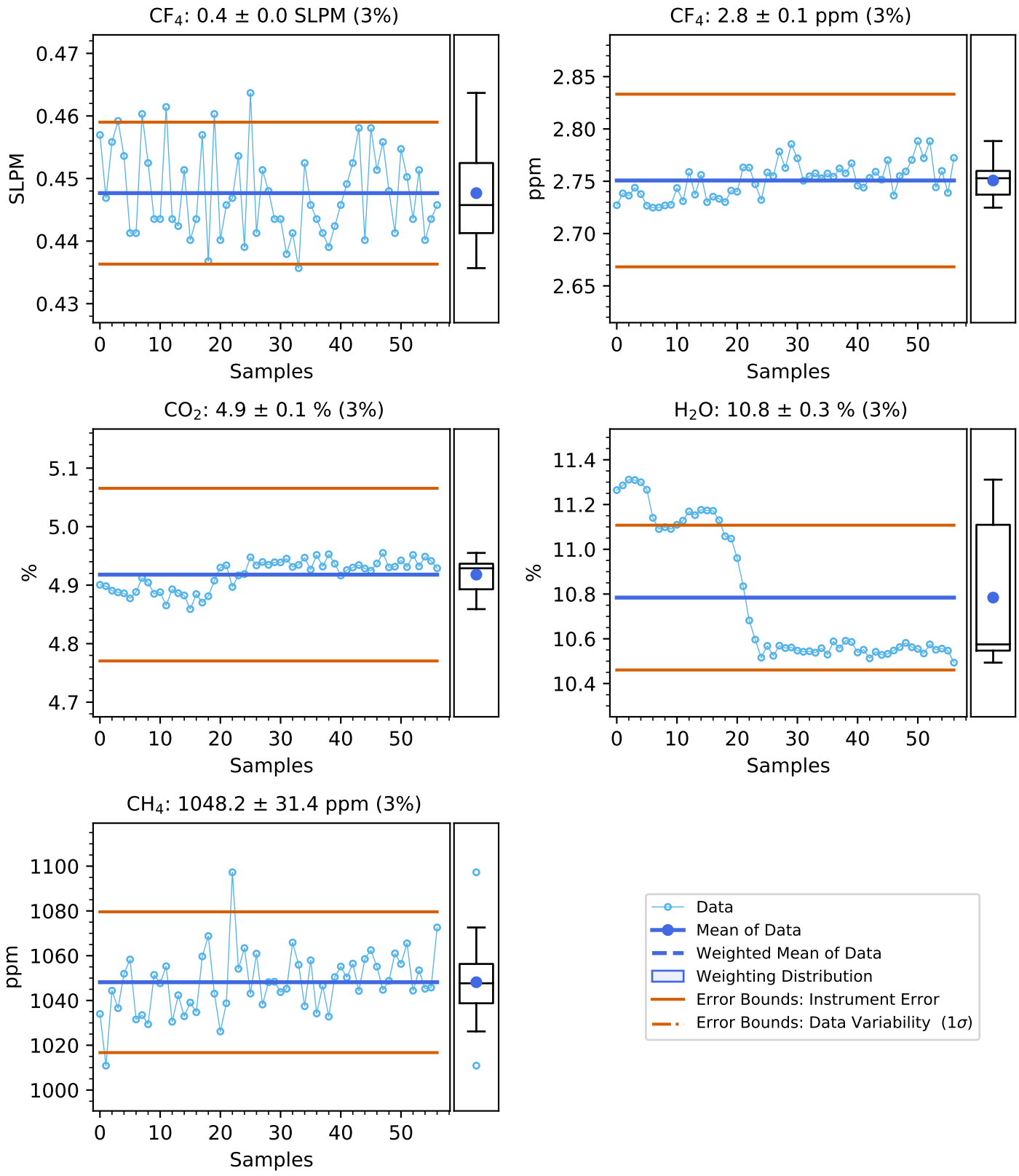
Facility: 441 Unit: 1 Test: 1



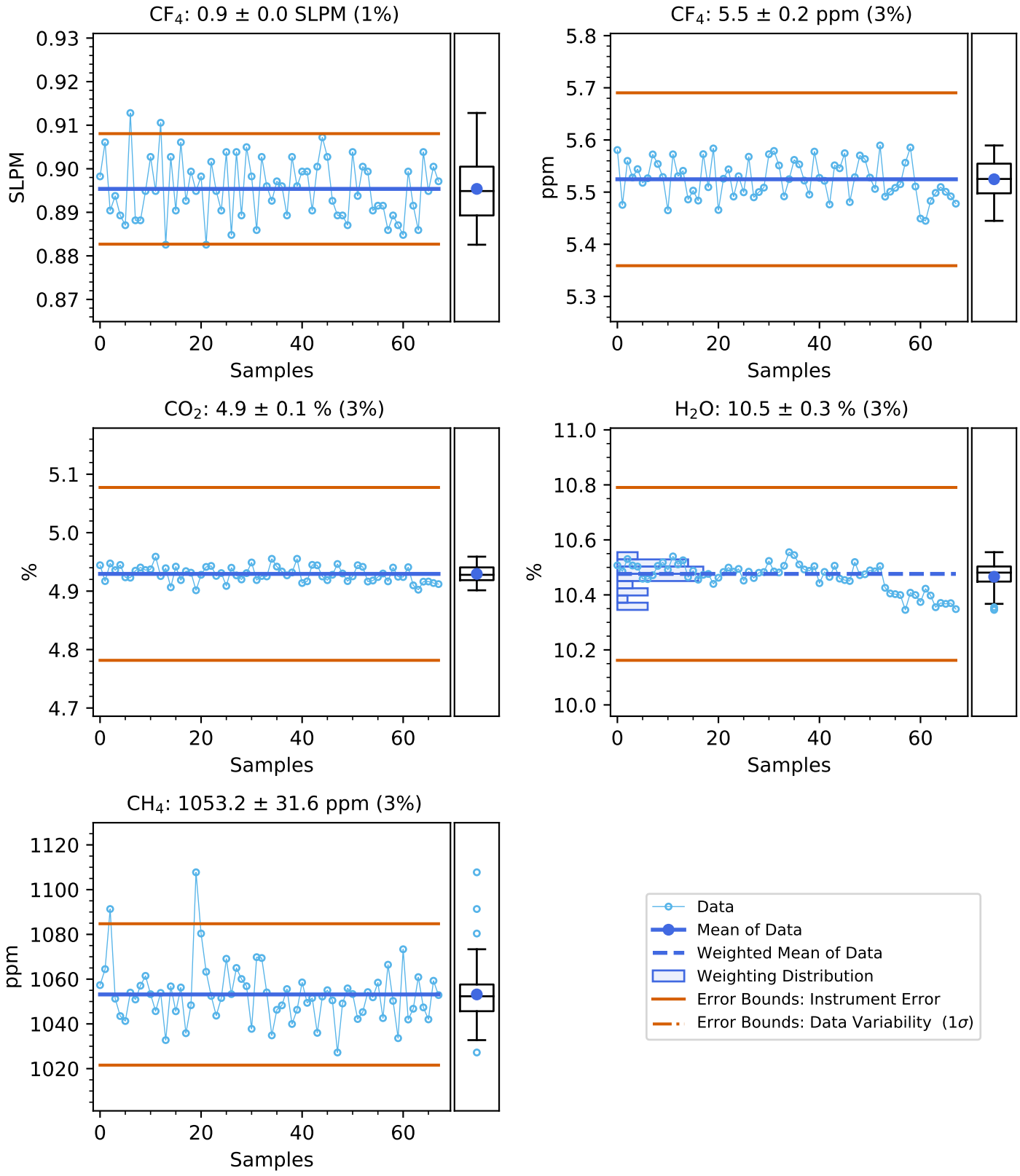
Facility: 441 Unit: 1 Test: 2



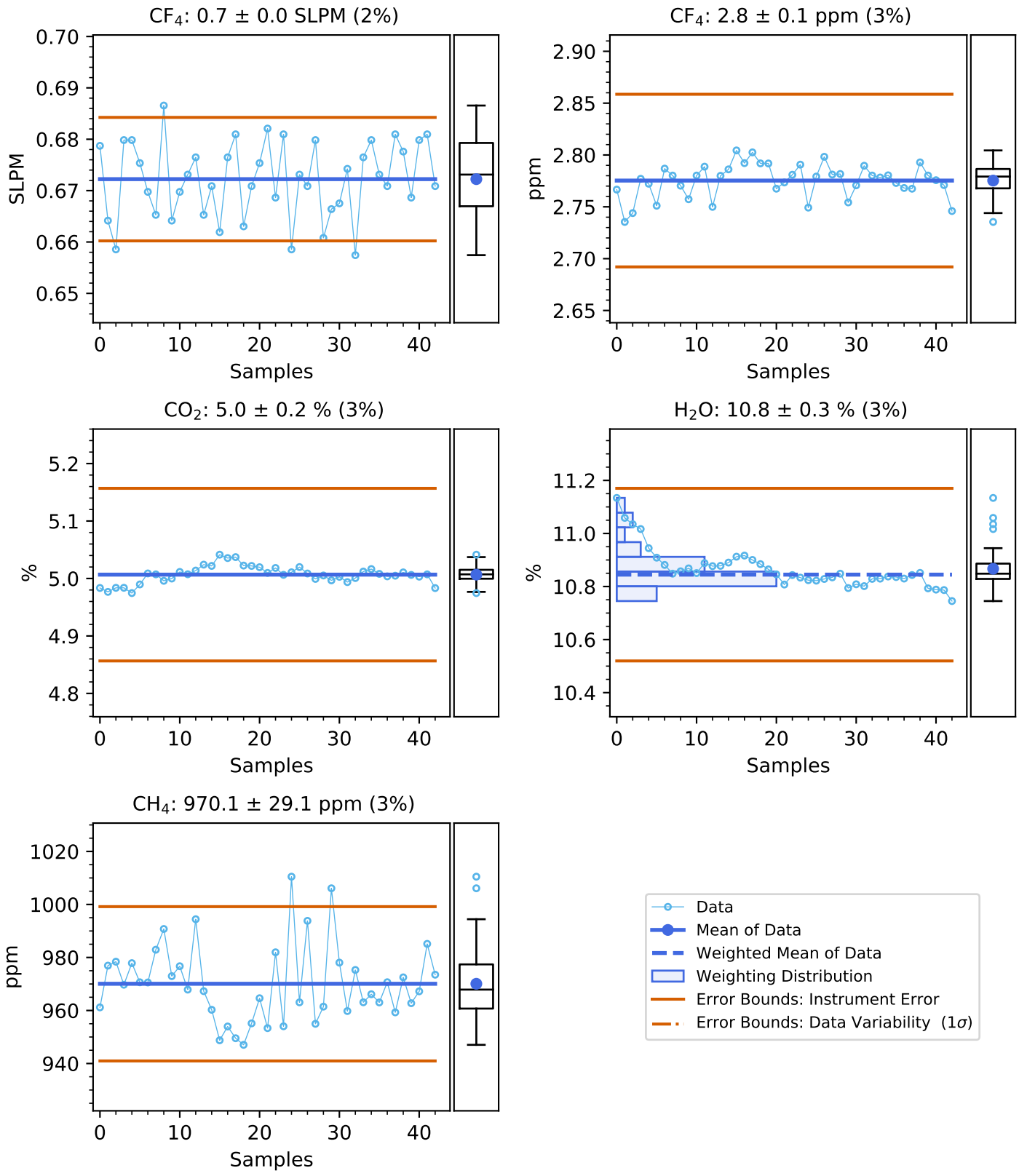
Facility: 441 Unit: 2 Test: 1



Facility: 441 Unit: 2 Test: 2



Facility: 441 Unit: 3 Test: 1



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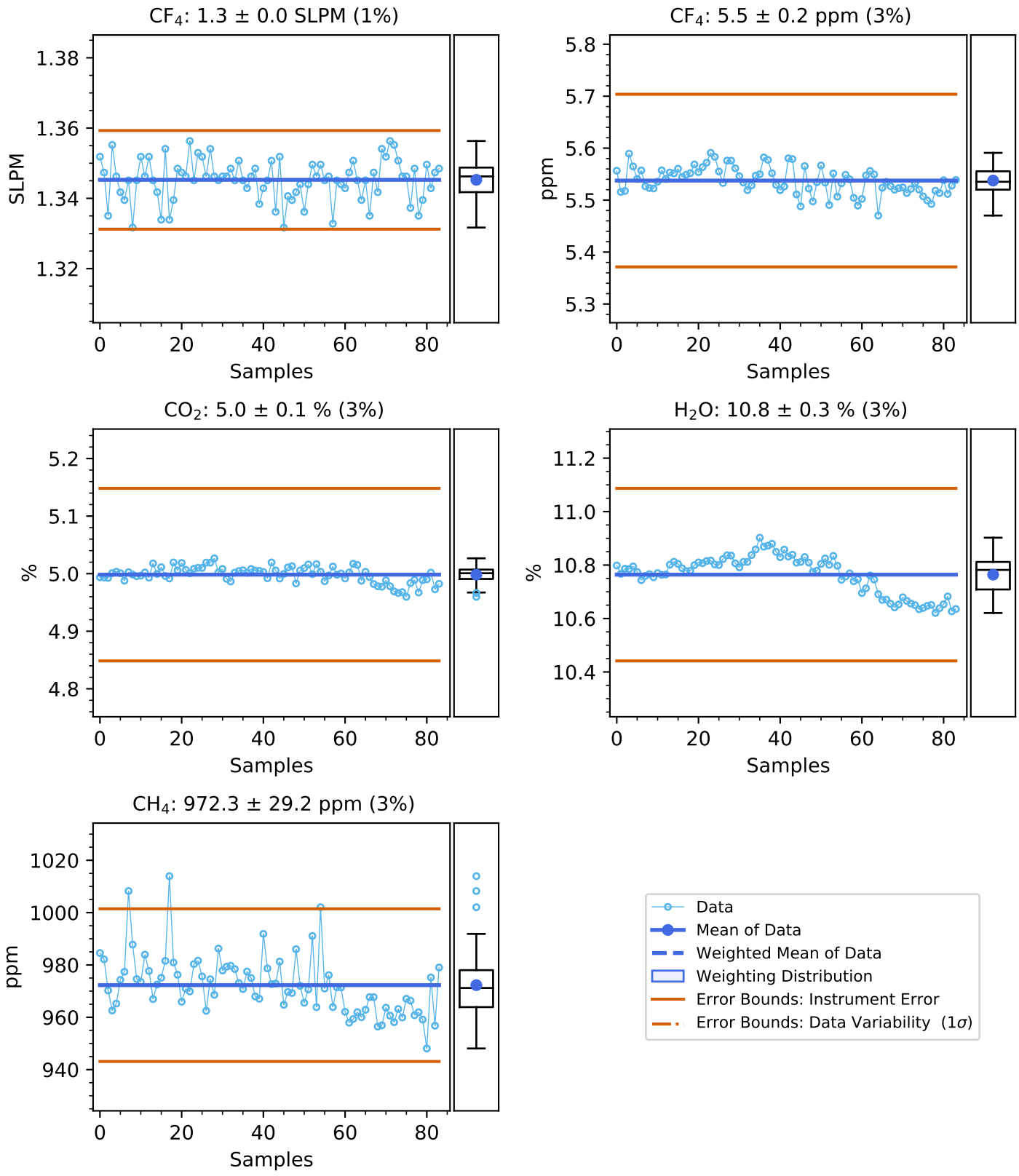
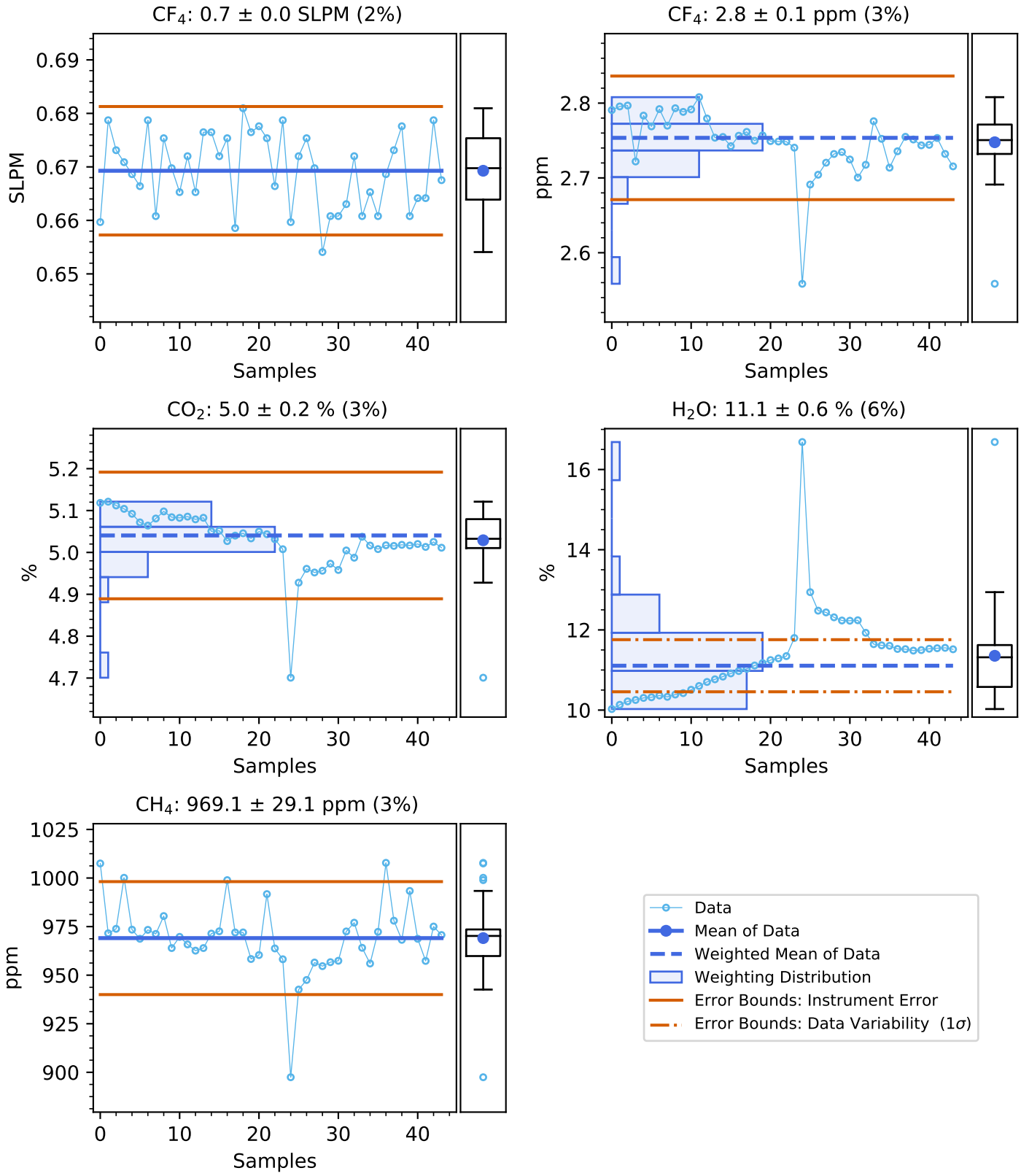
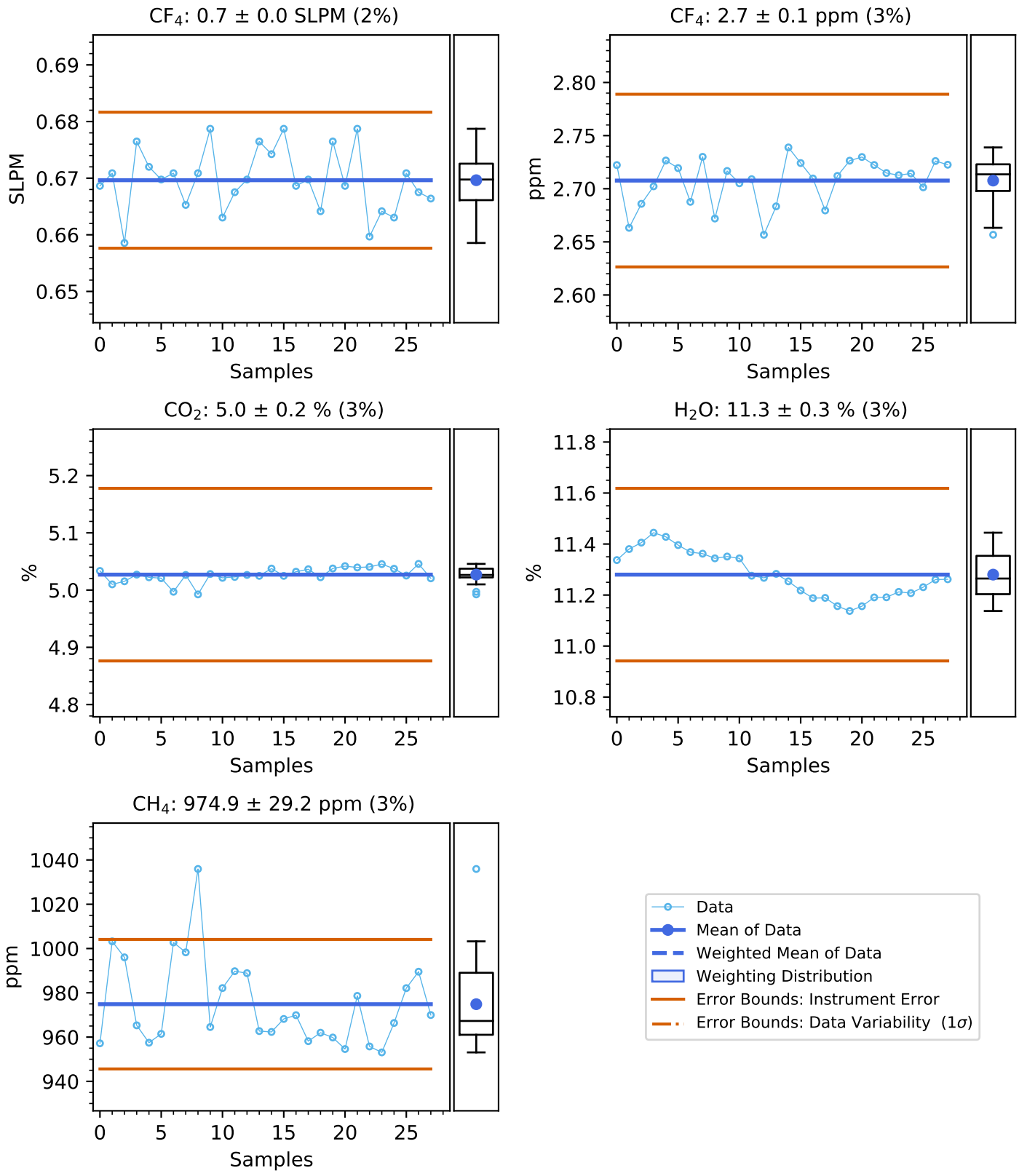


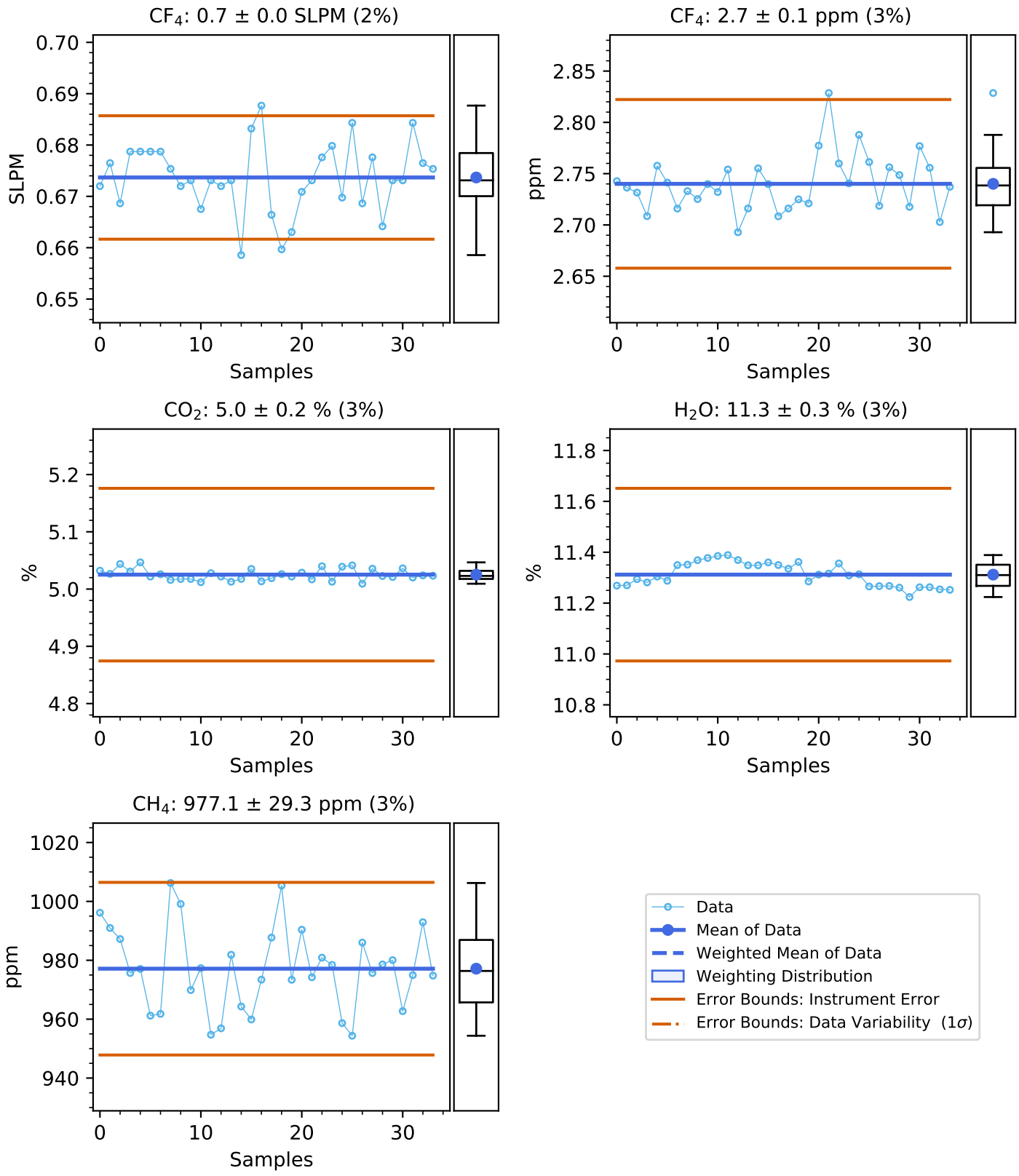
Facility: 441 Unit: 4 Test: 1



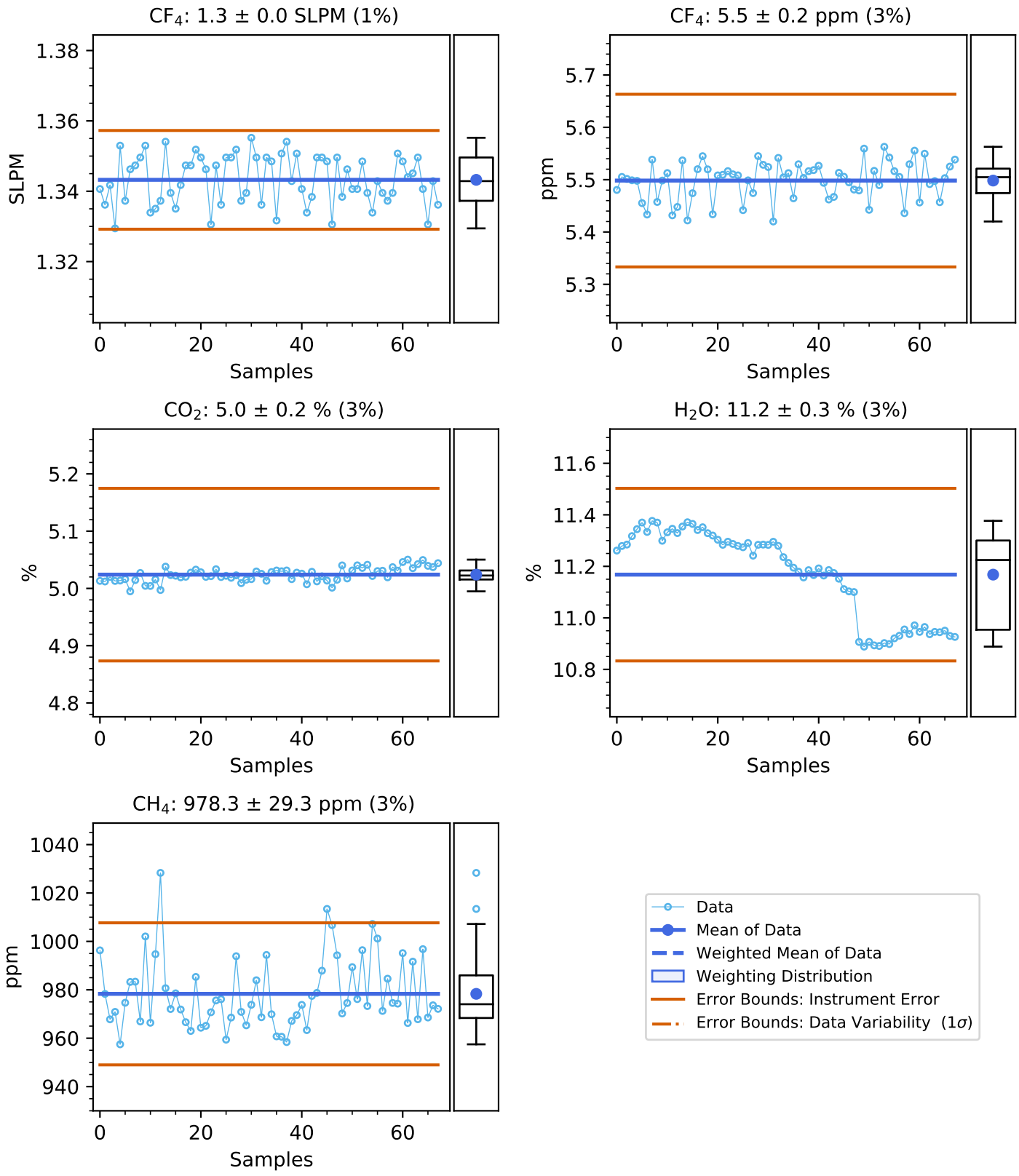
Facility: 441 Unit: 4 Test: 2



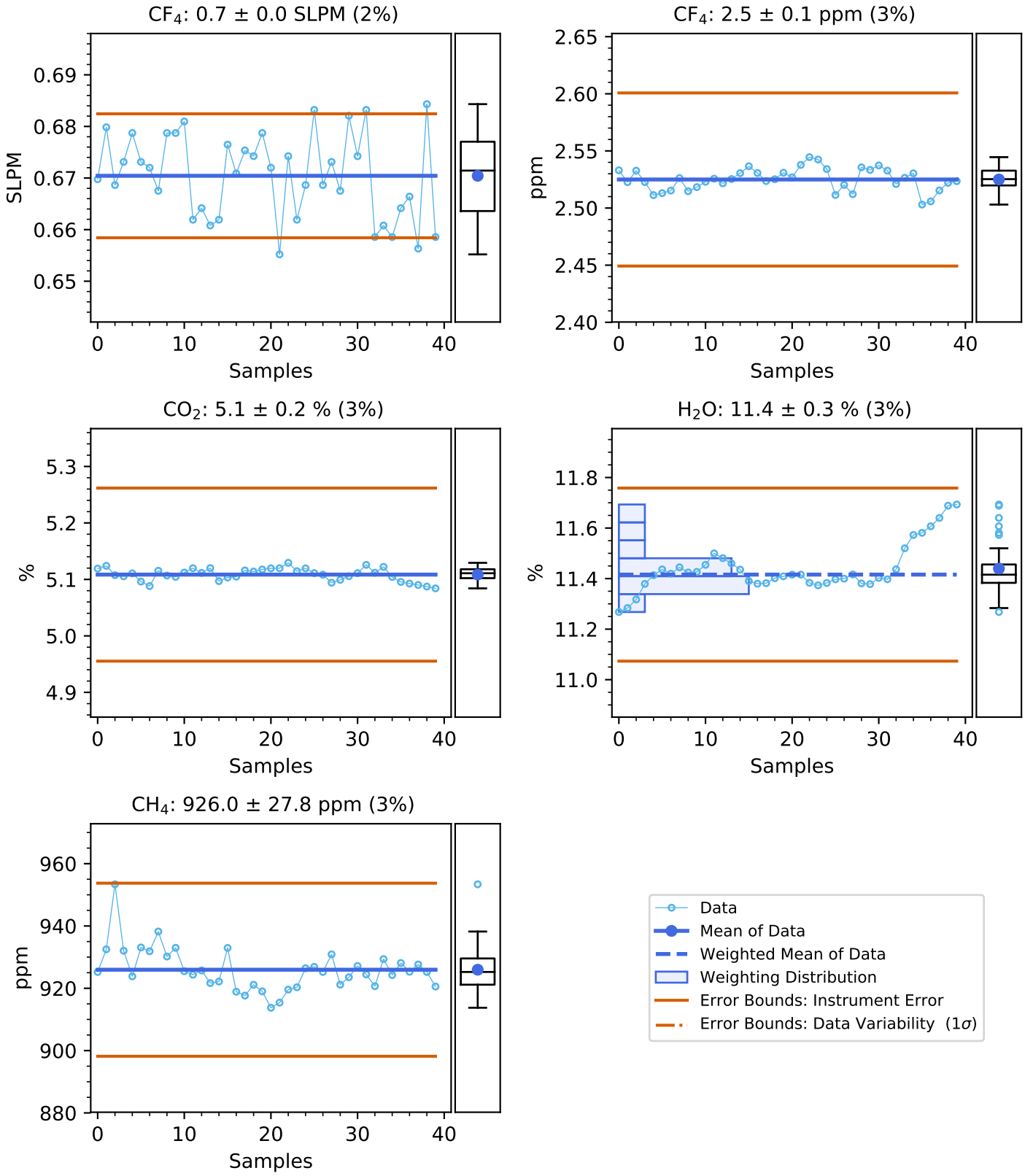
Facility: 441 Unit: 4 Test: 3



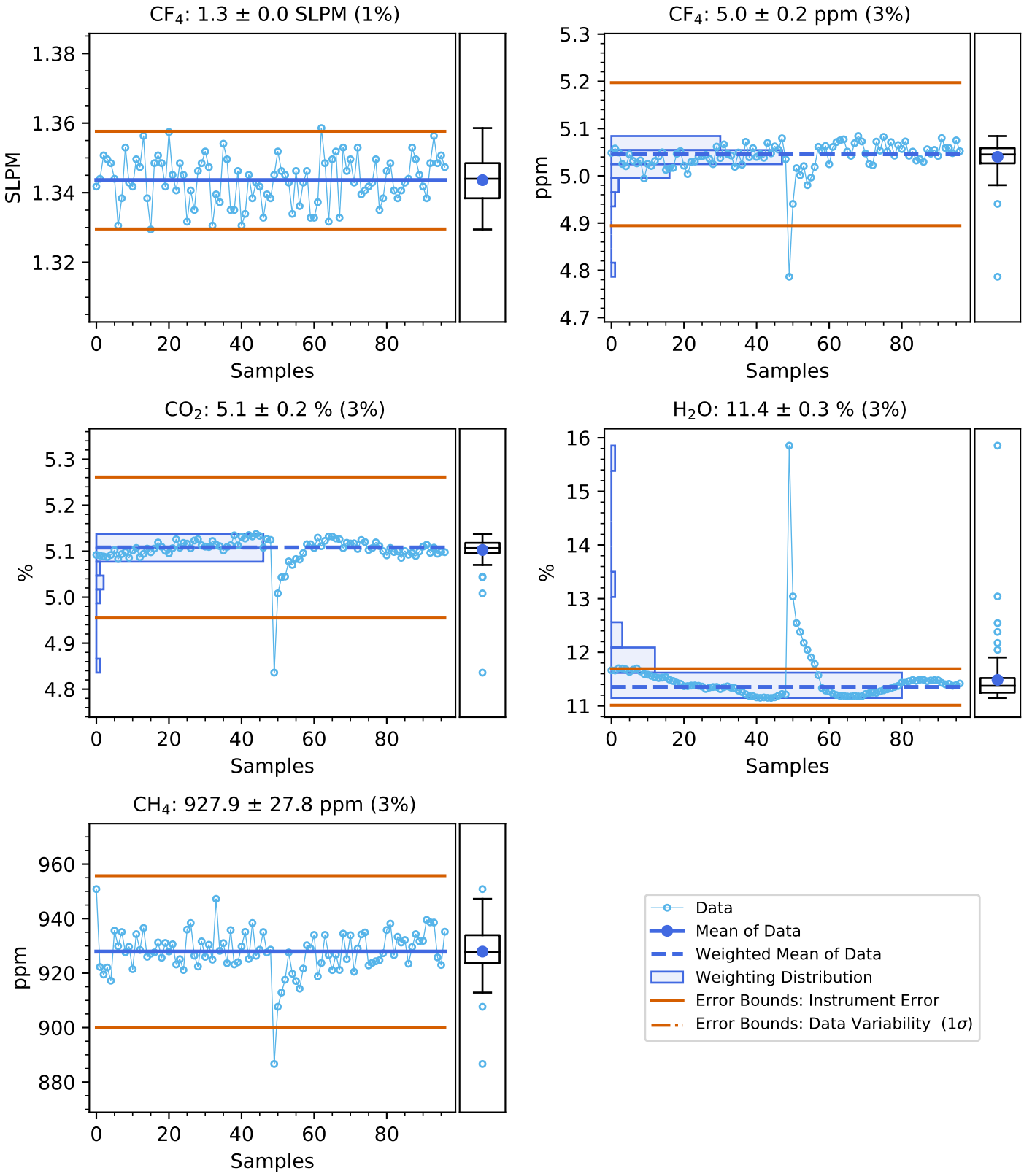
Facility: 441 Unit: 4 Test: 4



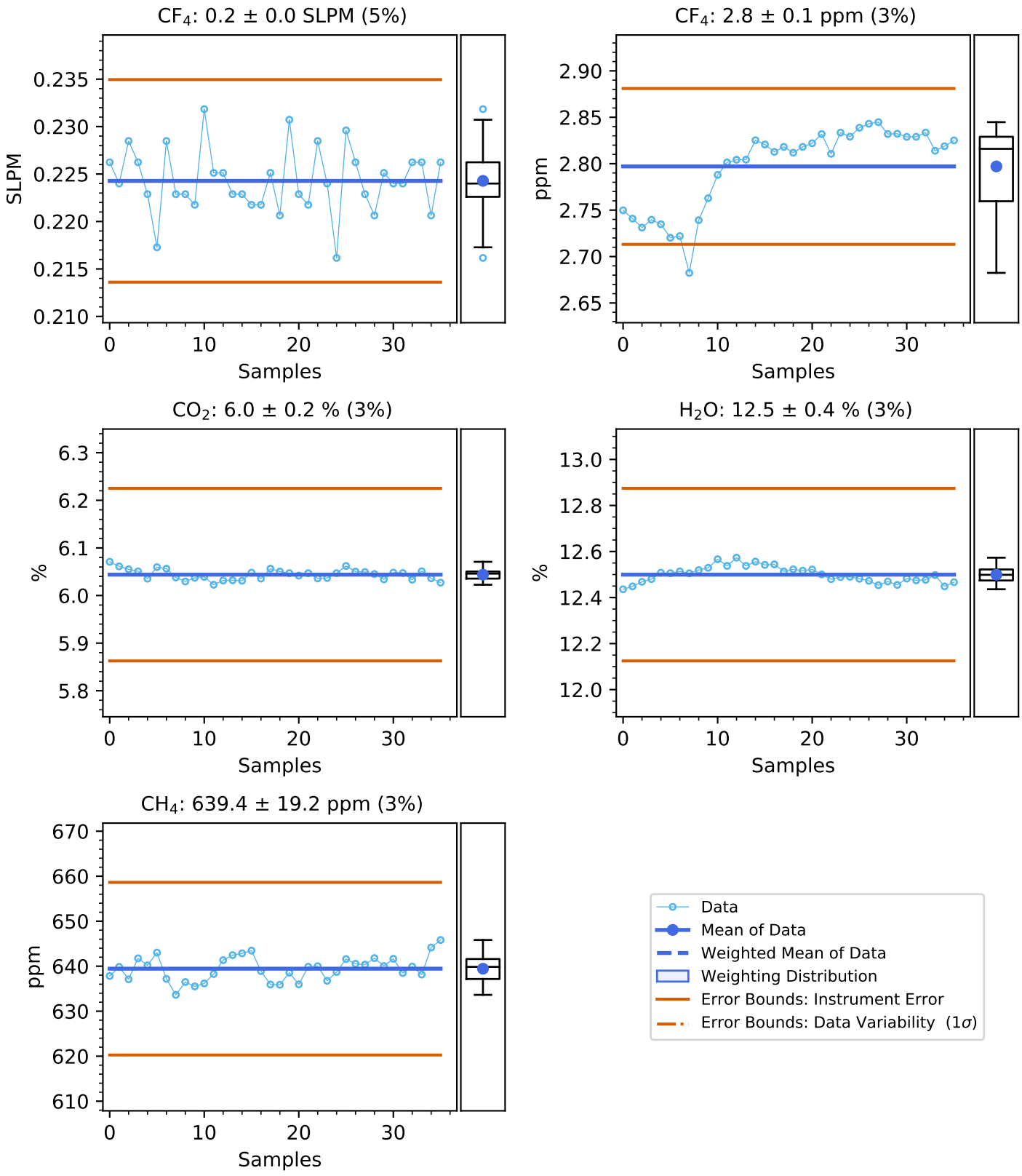
Facility: 441 Unit: 5 Test: 1



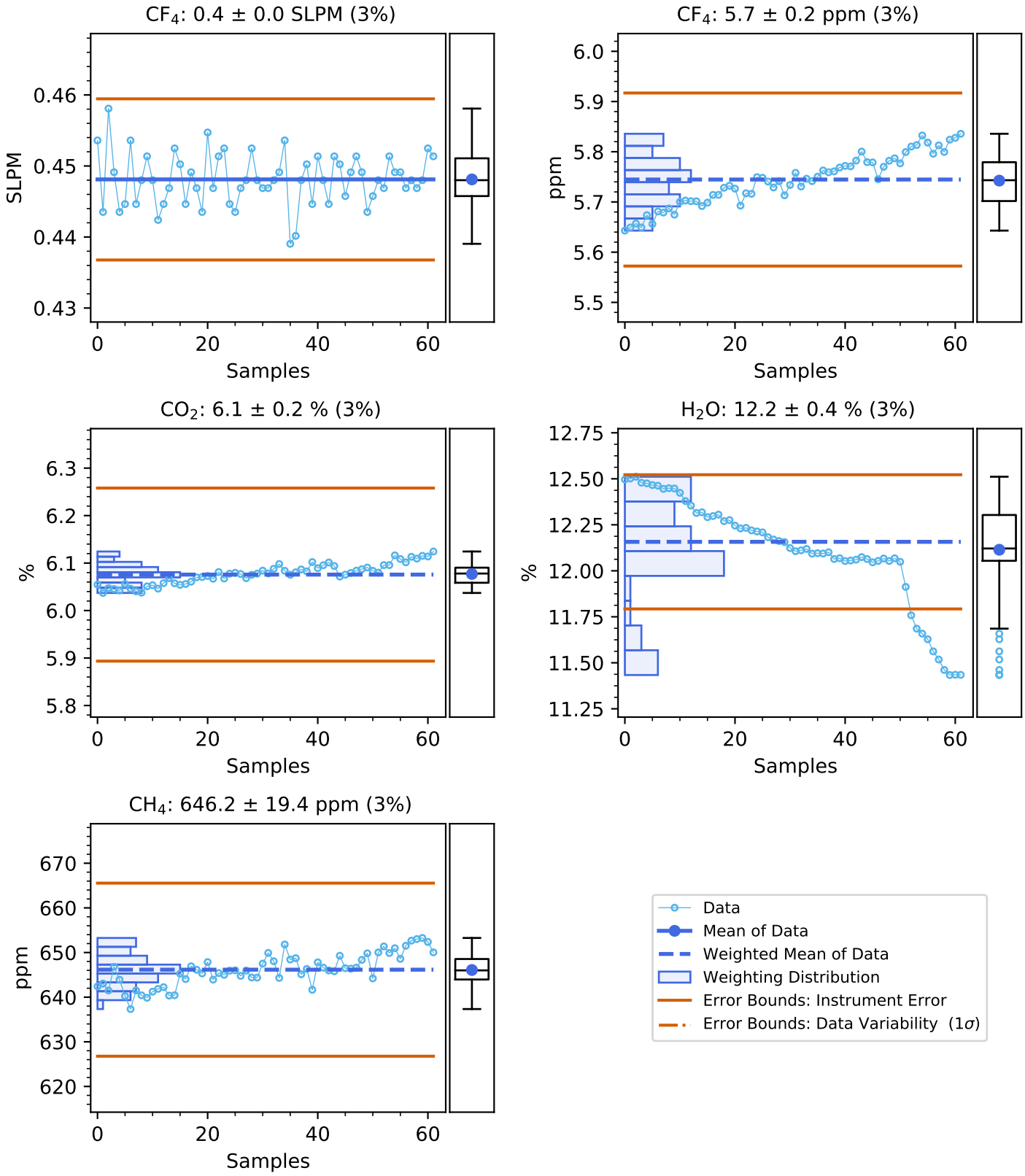
Facility: 441 Unit: 5 Test: 2



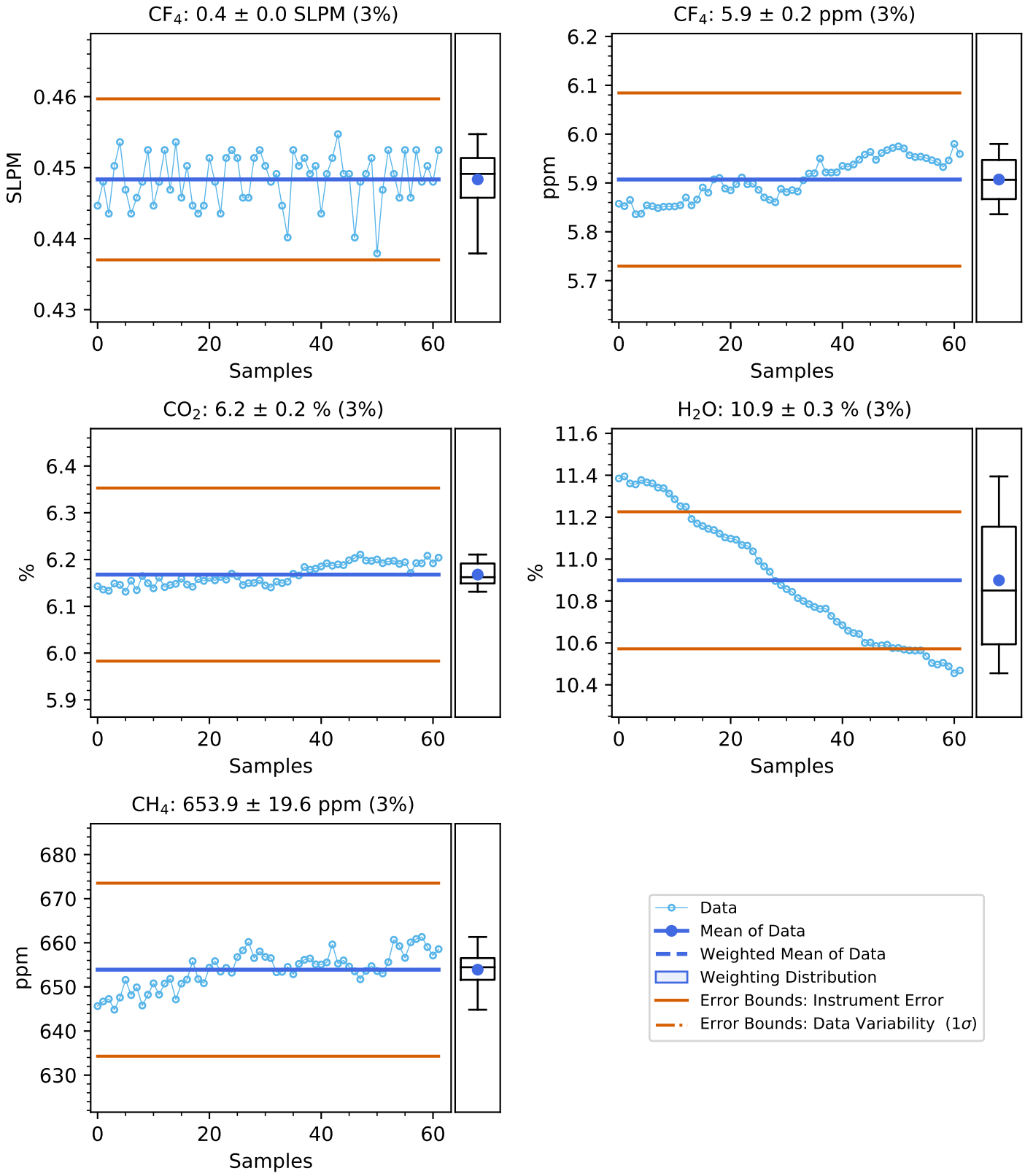
Facility: 19 Unit: 1 Test: 1



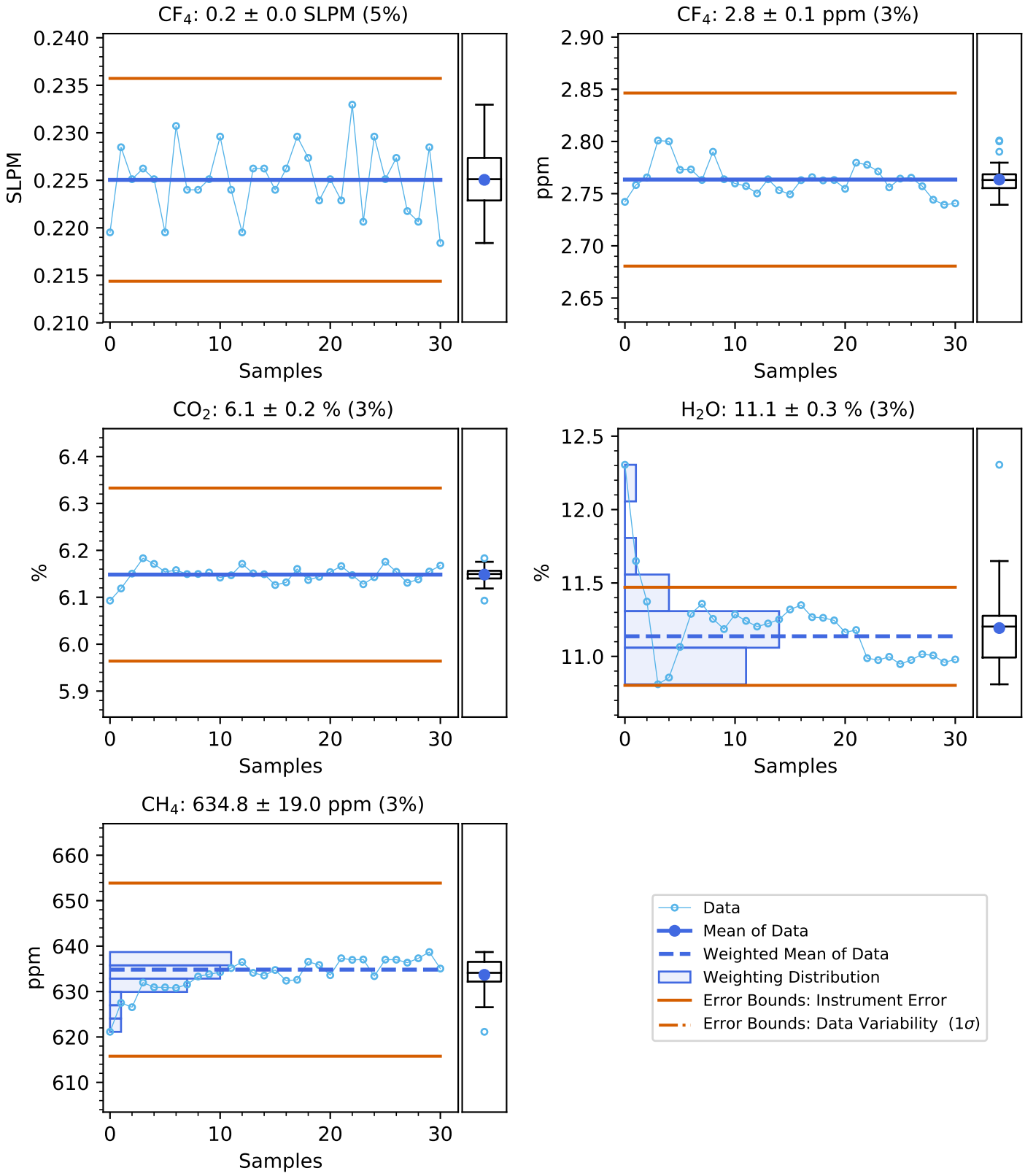
Facility: 19 Unit: 1 Test: 2



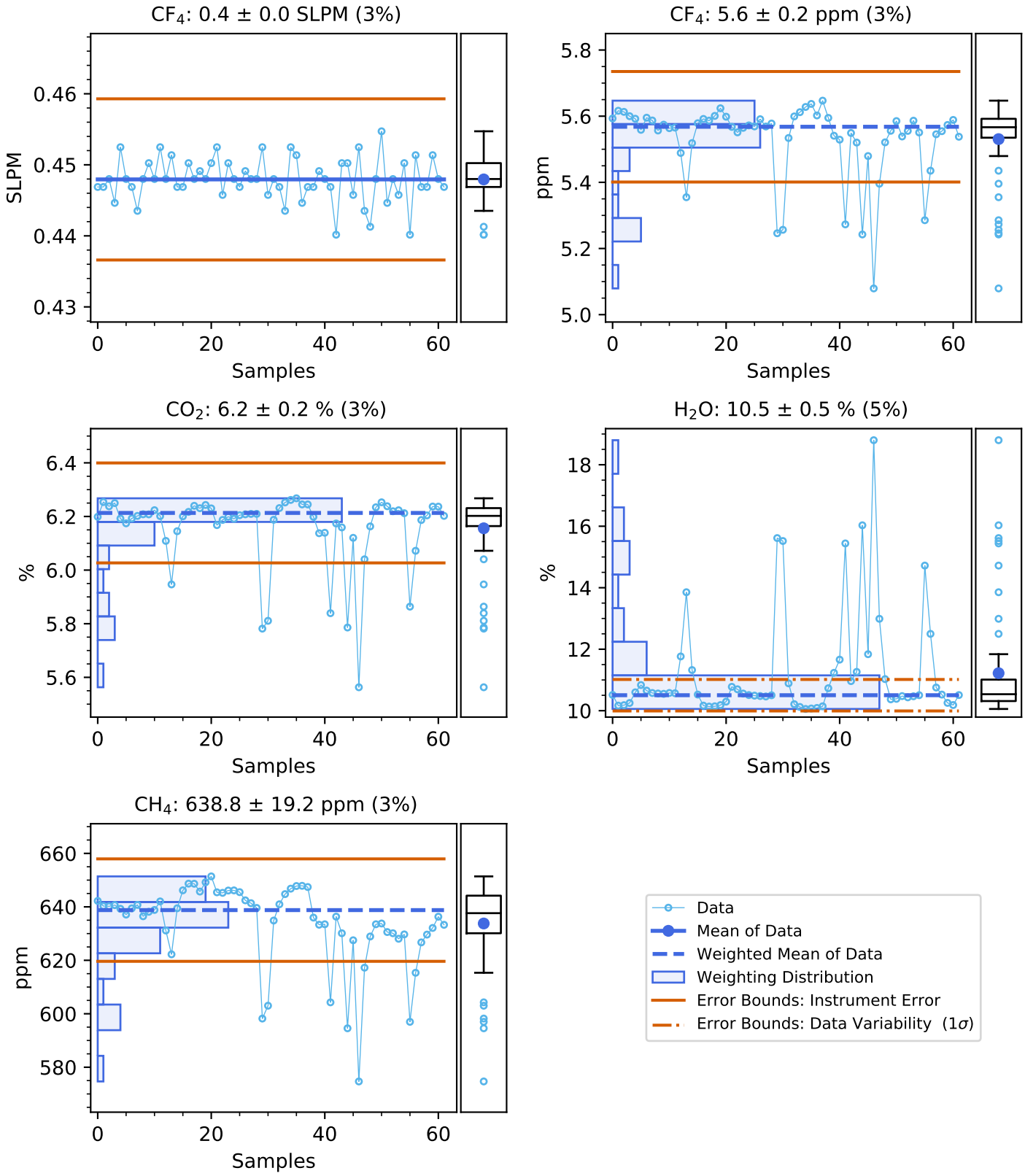
Facility: 19 Unit: 1 Test: 3



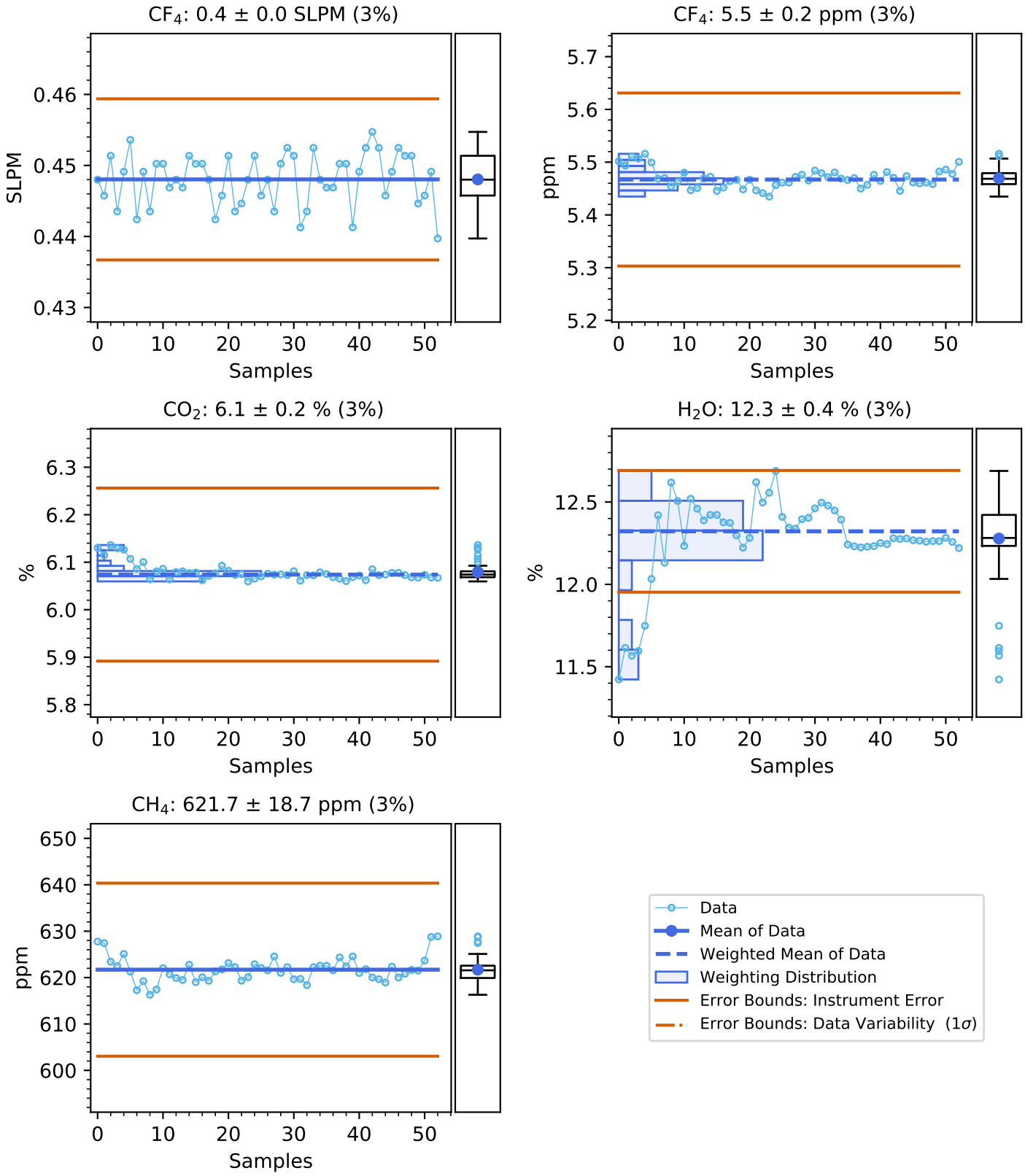
Facility: 19 Unit: 2 Test: 1



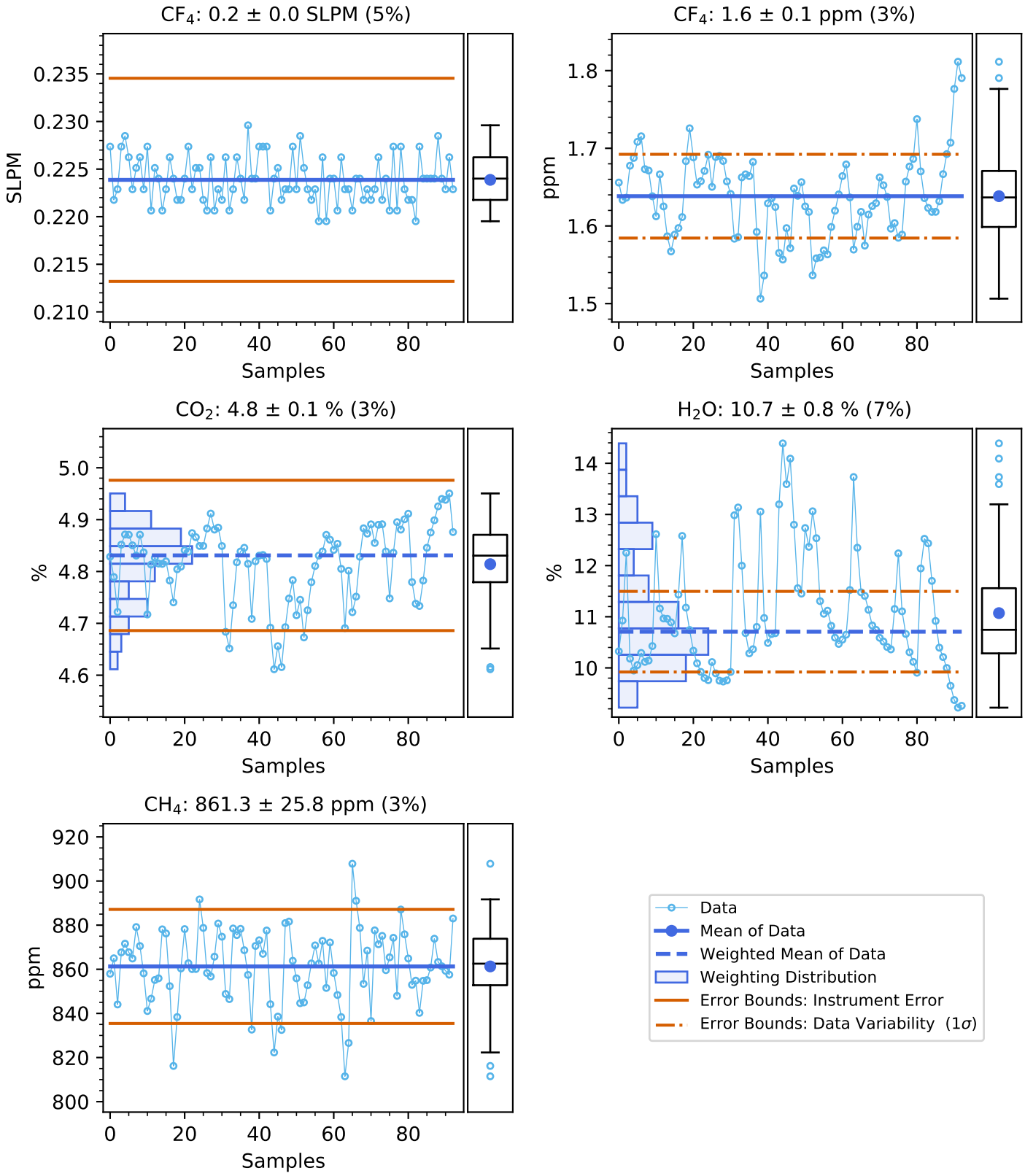
Facility: 19 Unit: 2 Test: 2



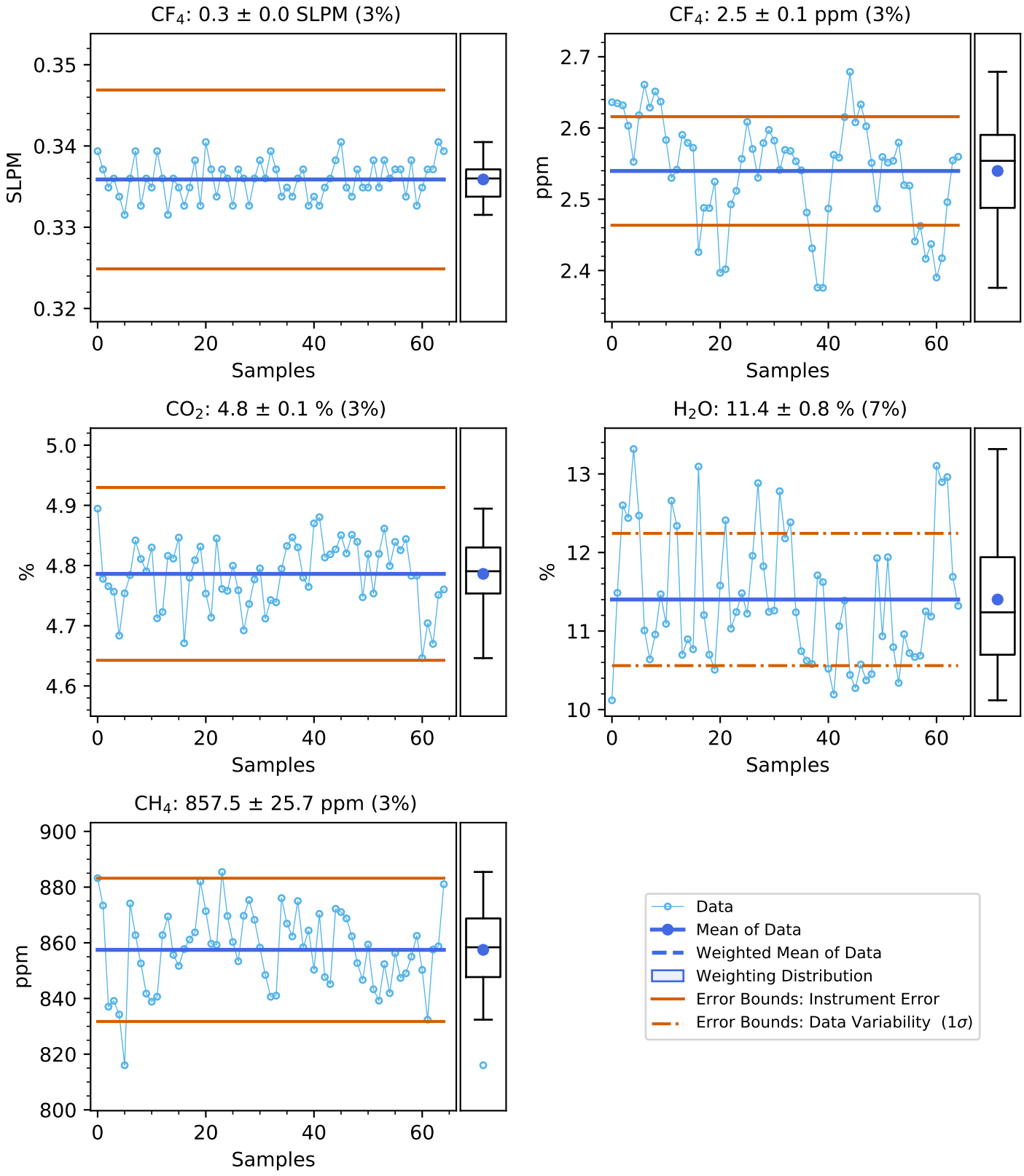
Facility: 19 Unit: 2 Test: 3



Facility: 1451 Unit: 1 Test: 1



Facility: 1451 Unit: 1 Test: 2



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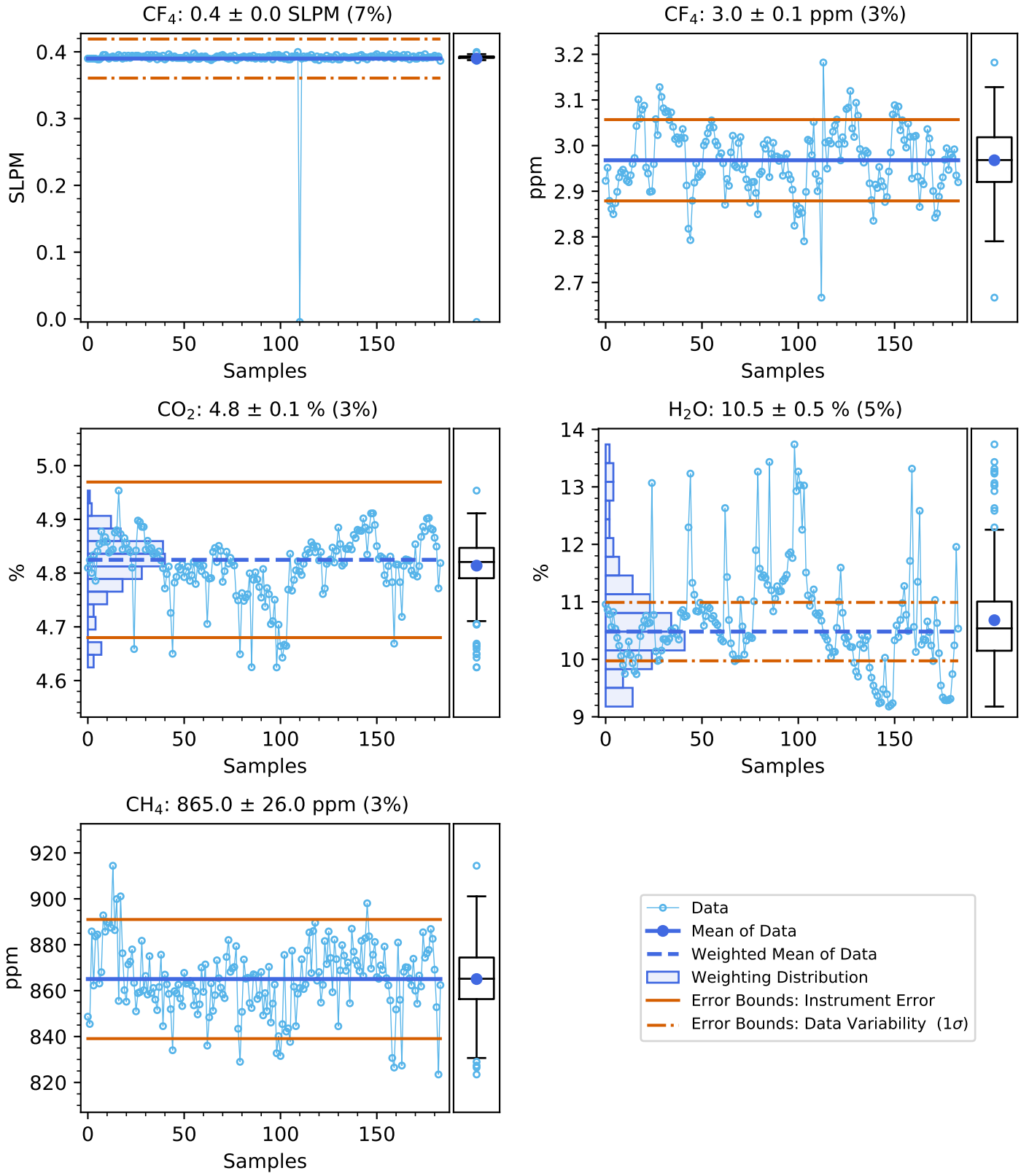
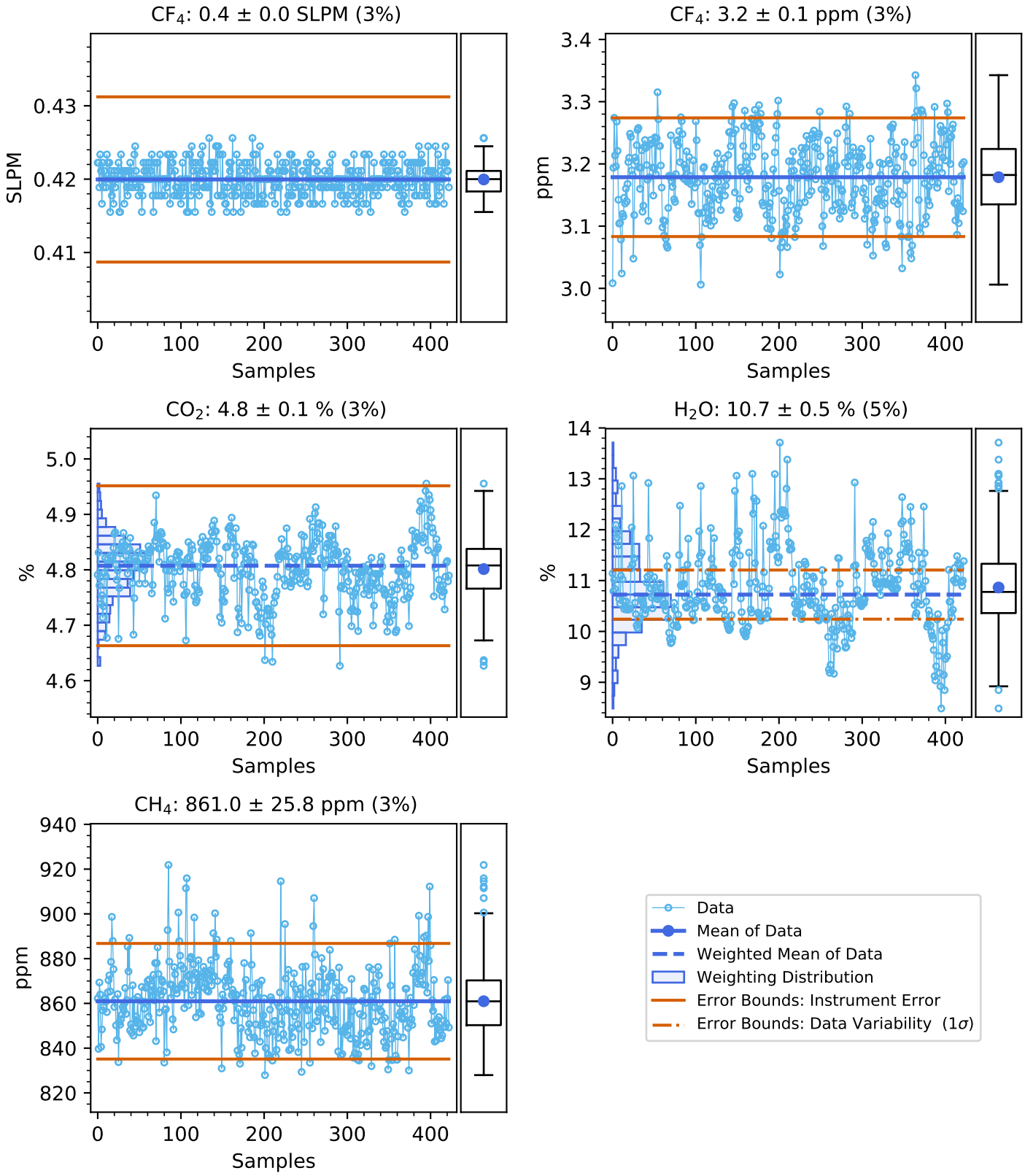
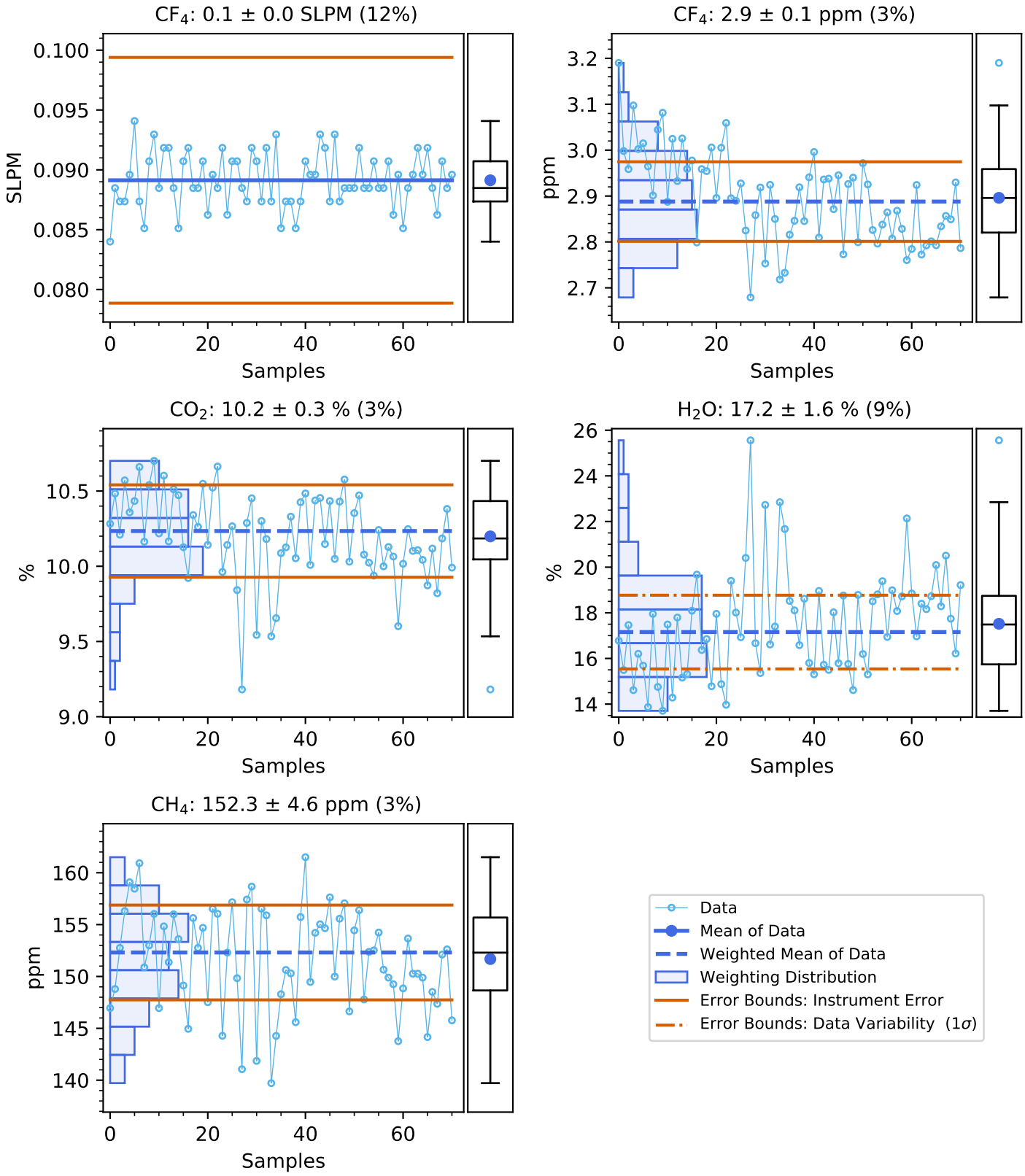


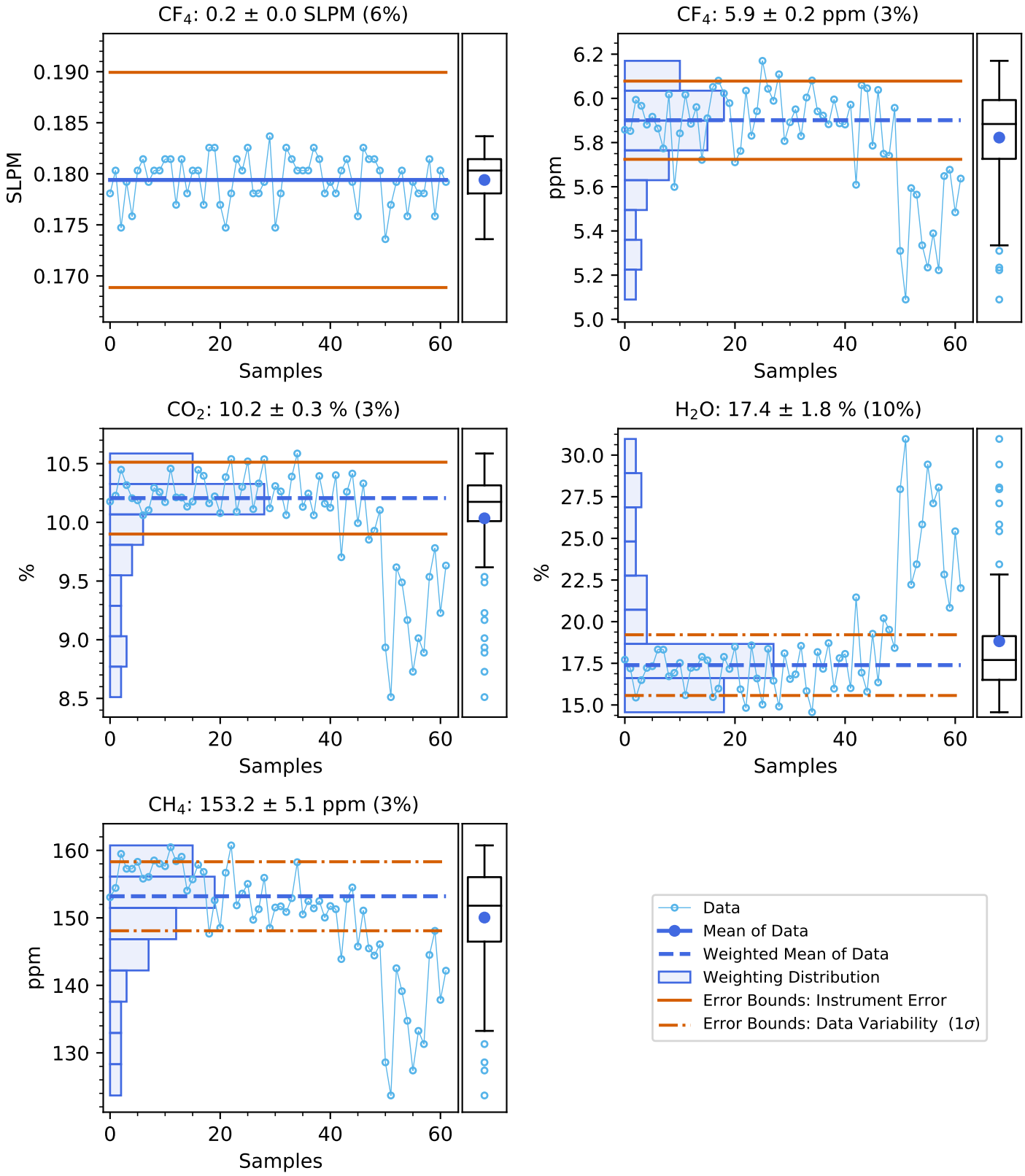
Facility: 1451 Unit: 1 Test: 4



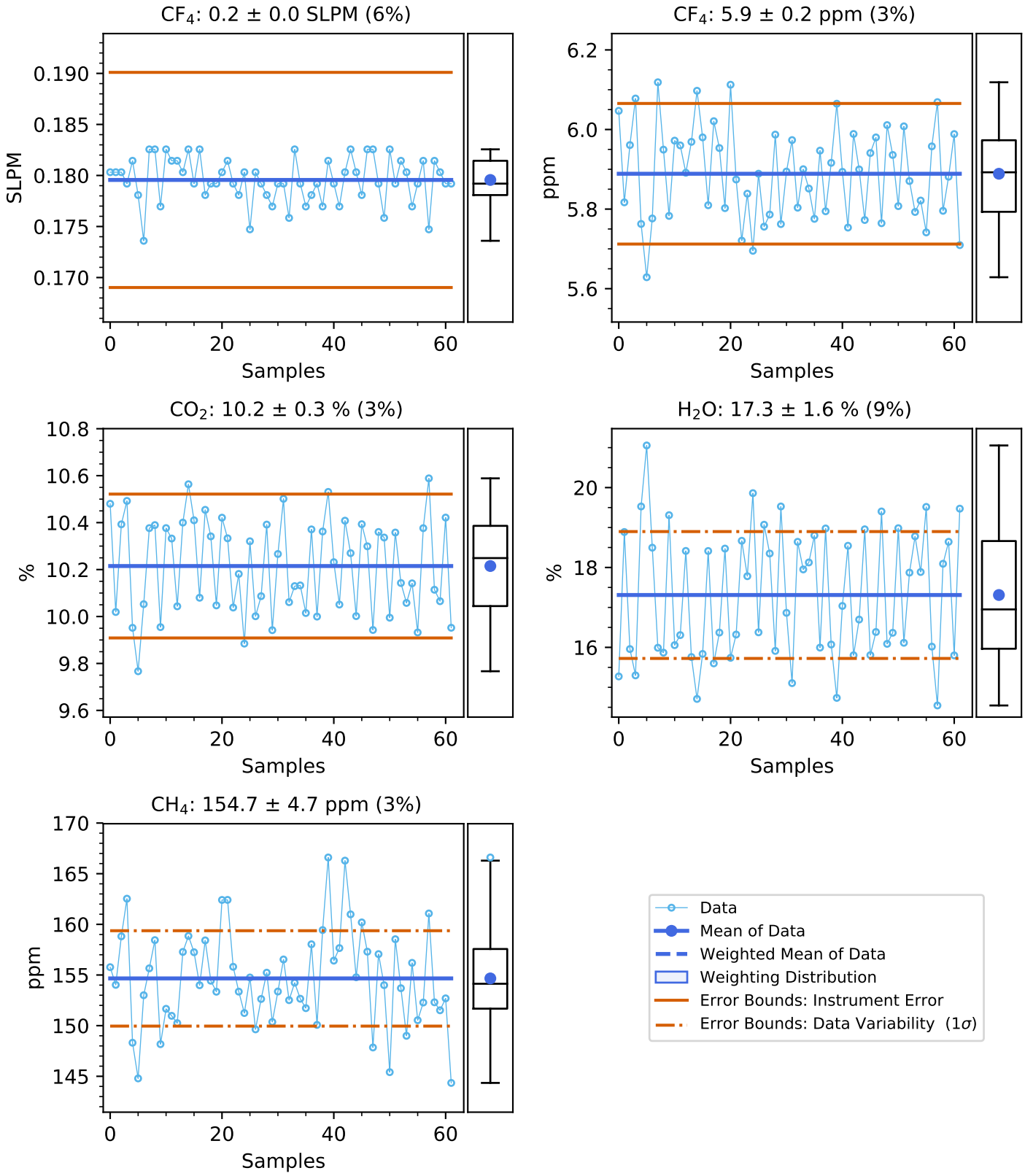
Facility: 1644 Unit: 1 Test: 1



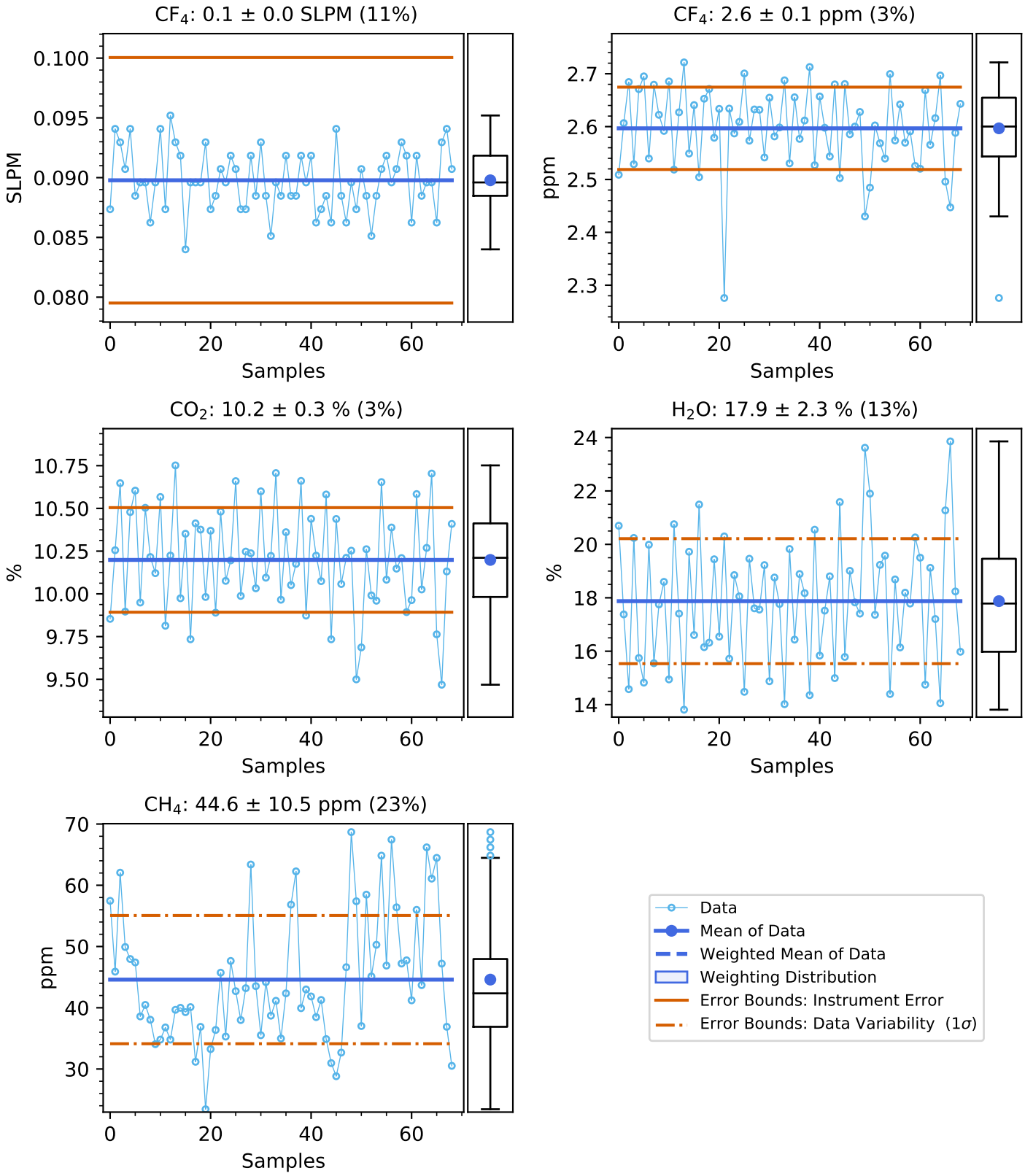
Facility: 1644 Unit: 1 Test: 2



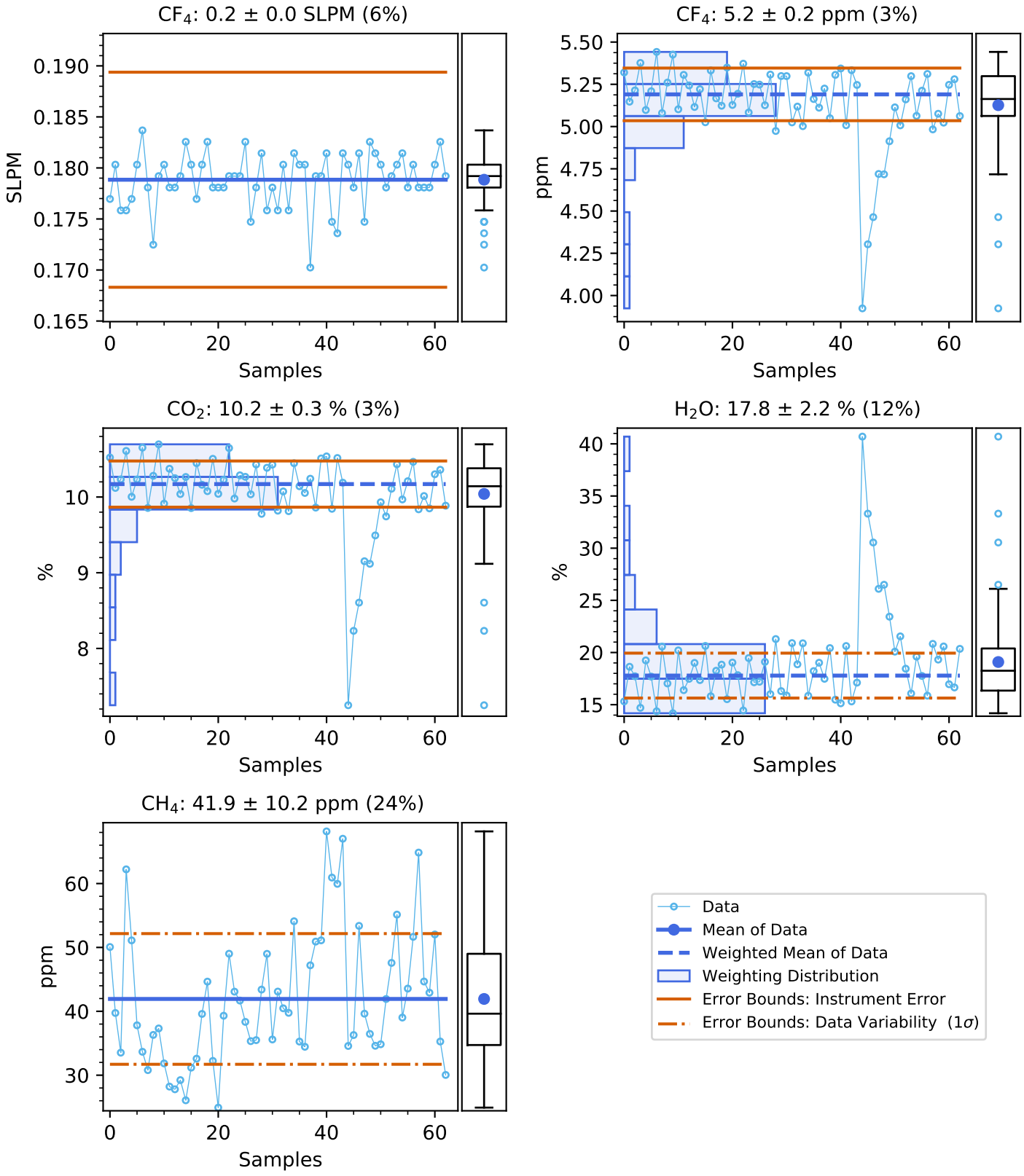
Facility: 1644 Unit: 1 Test: 3



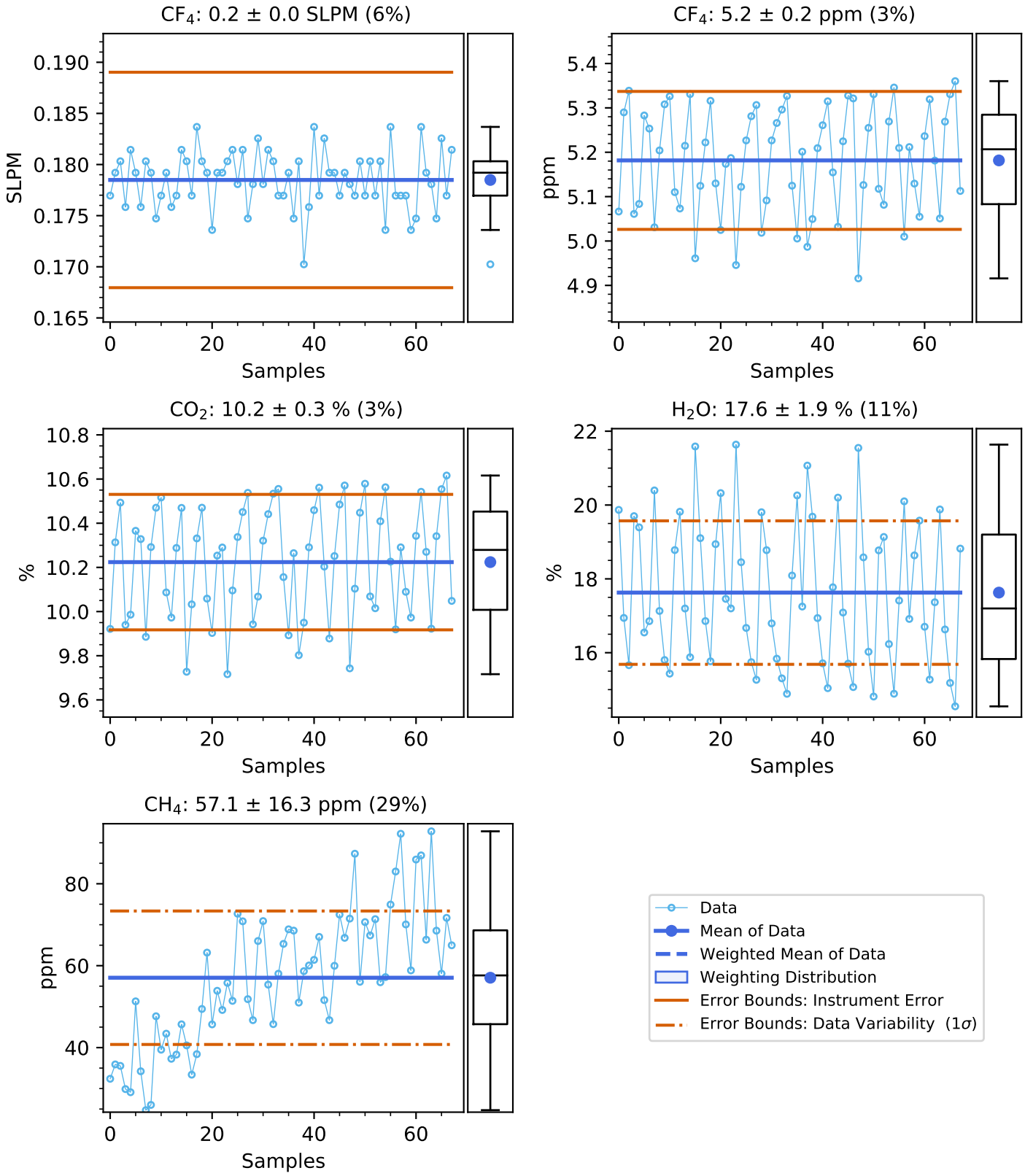
Facility: 1644 Unit: 2 Test: 1



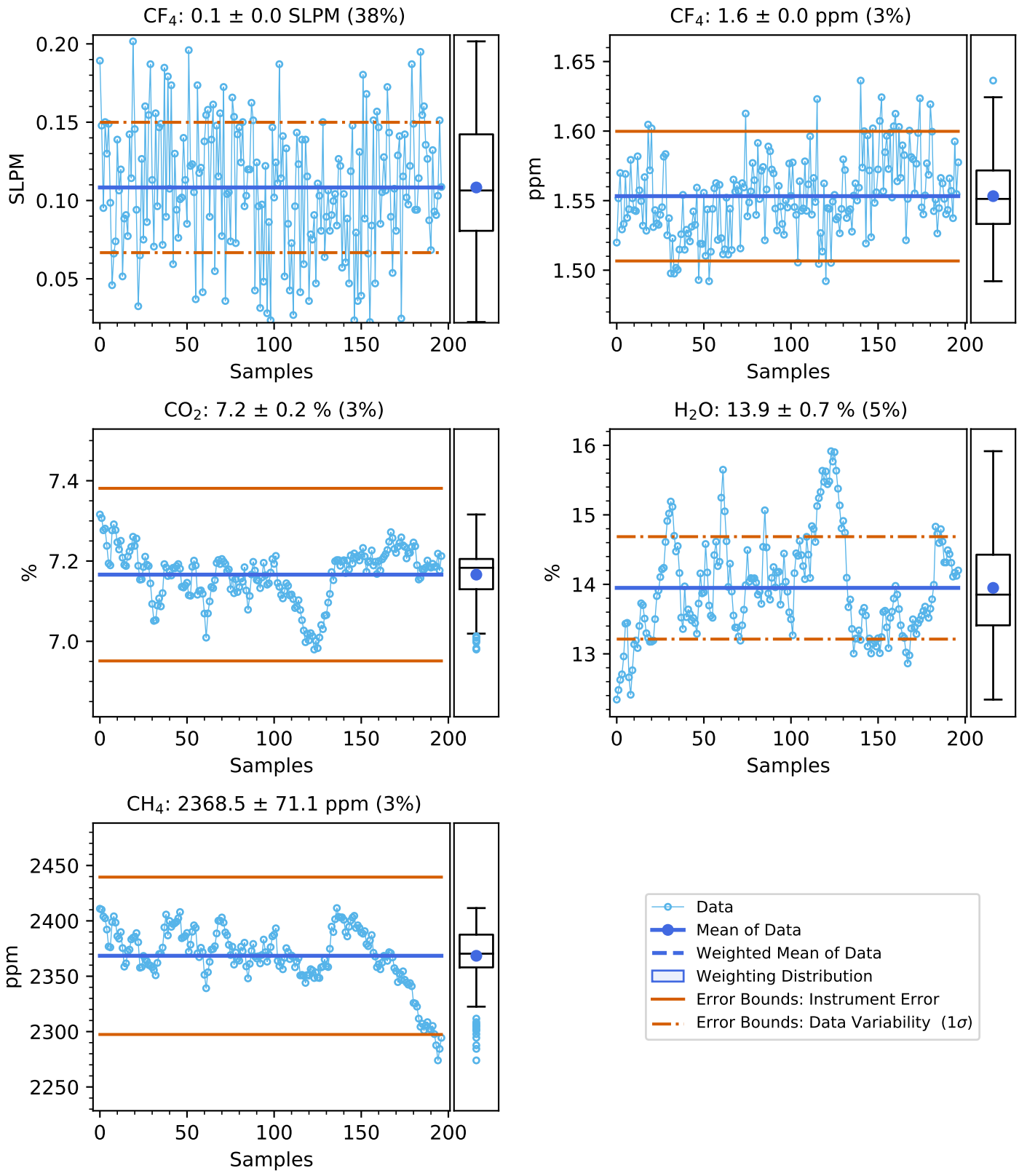
Facility: 1644 Unit: 2 Test: 2



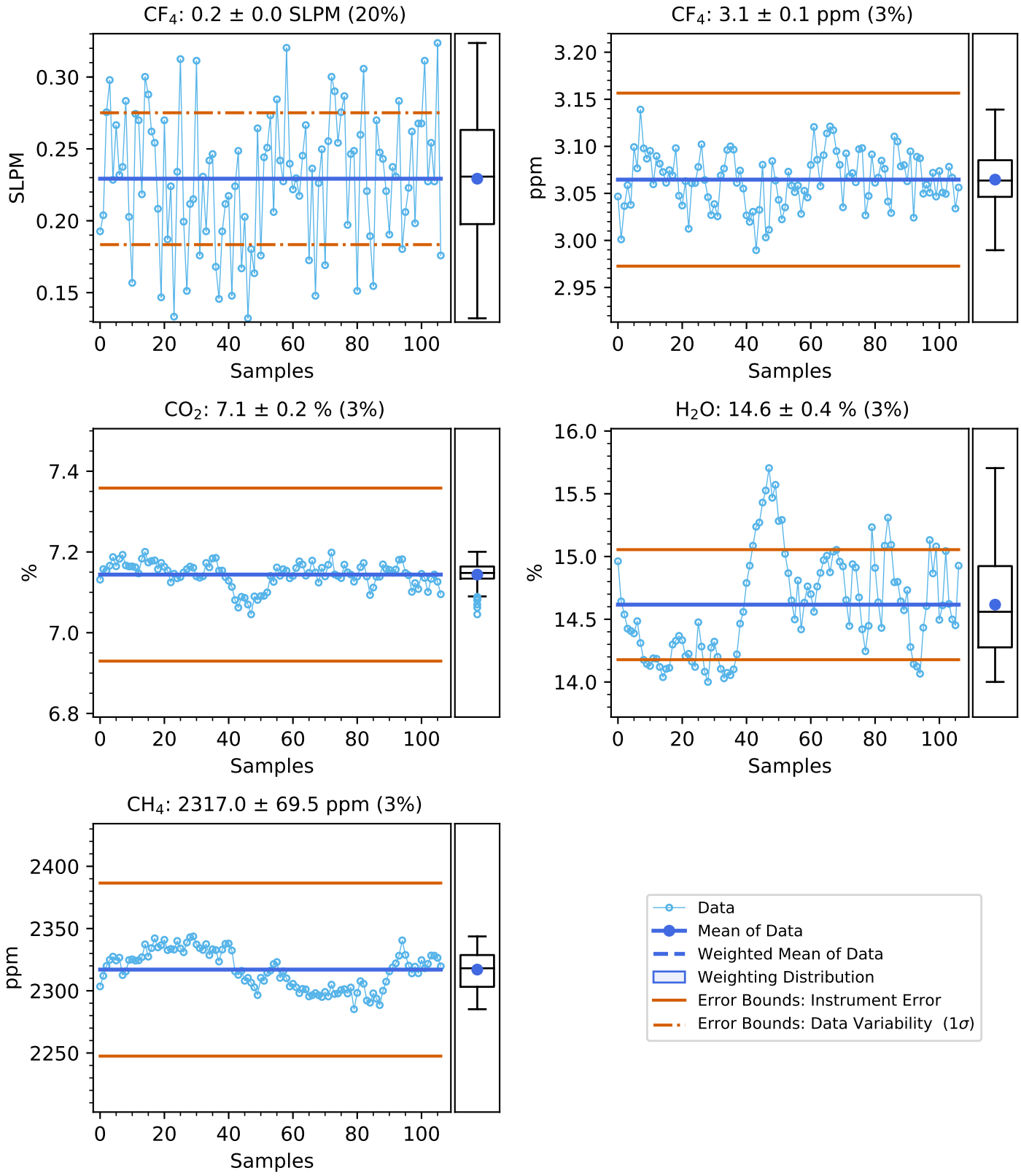
Facility: 1644 Unit: 2 Test: 3



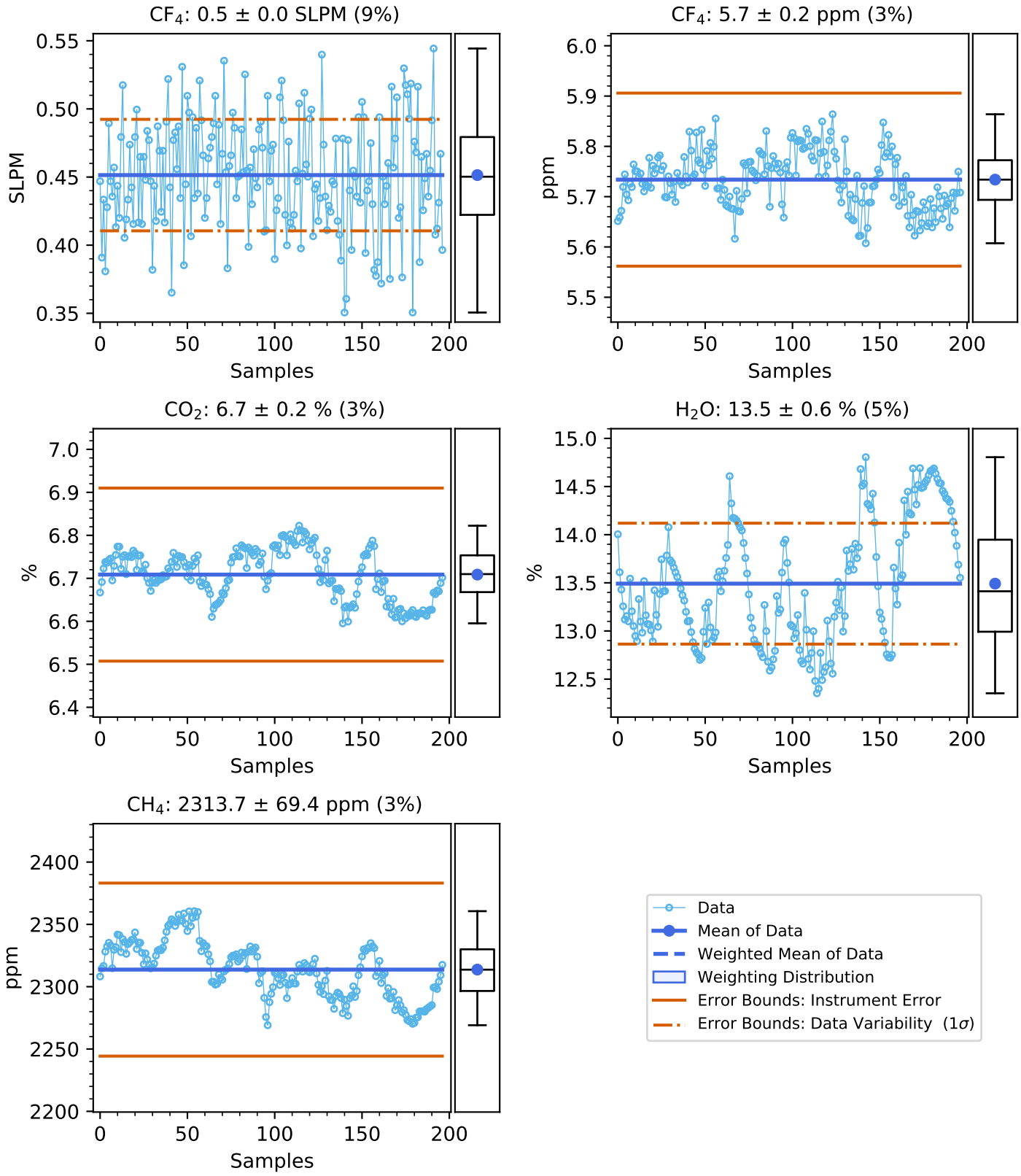
Facility: 430 Unit: 2 Test: 1



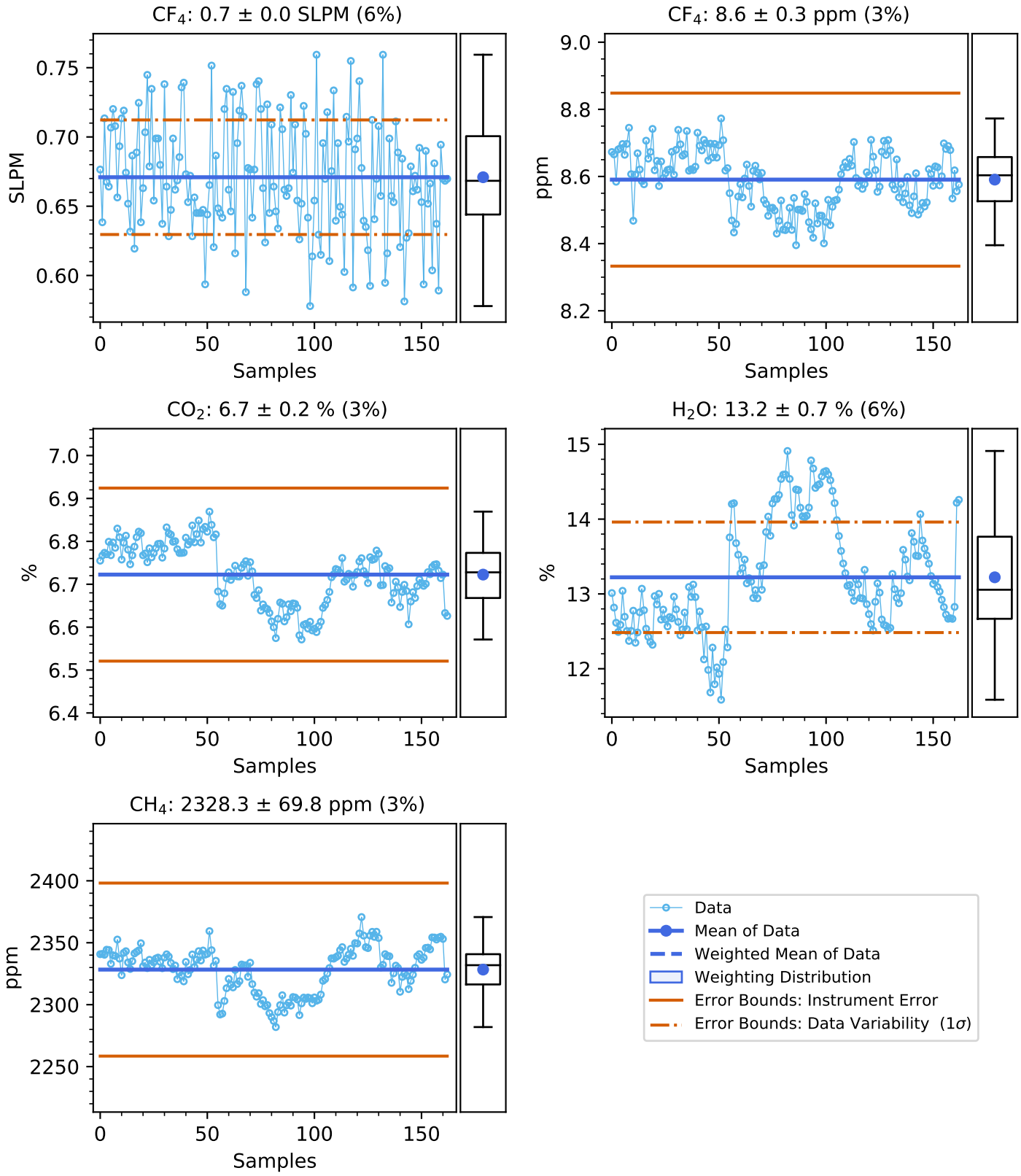
Facility: 430 Unit: 2 Test: 2



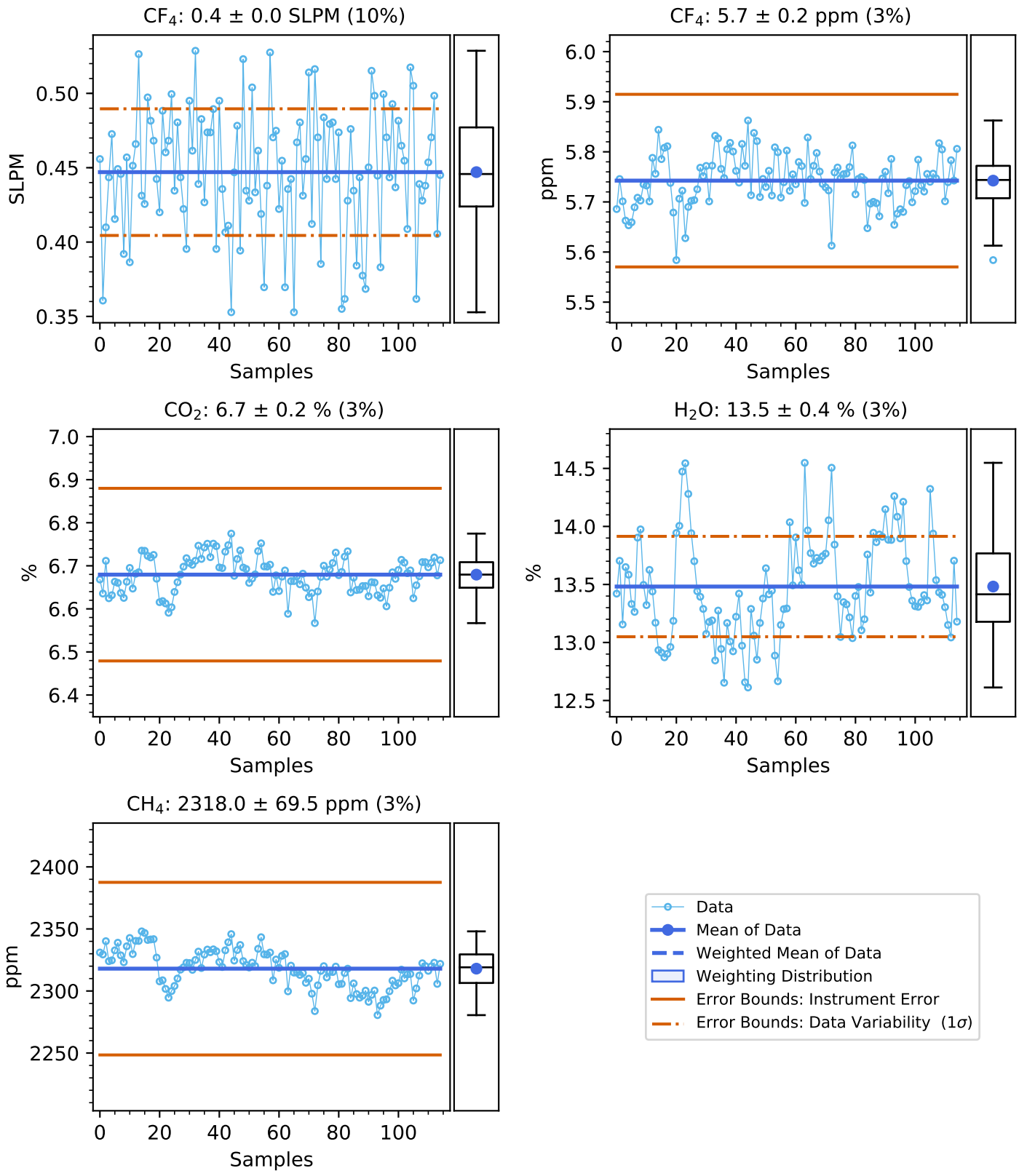
Facility: 430 Unit: 2 Test: 3



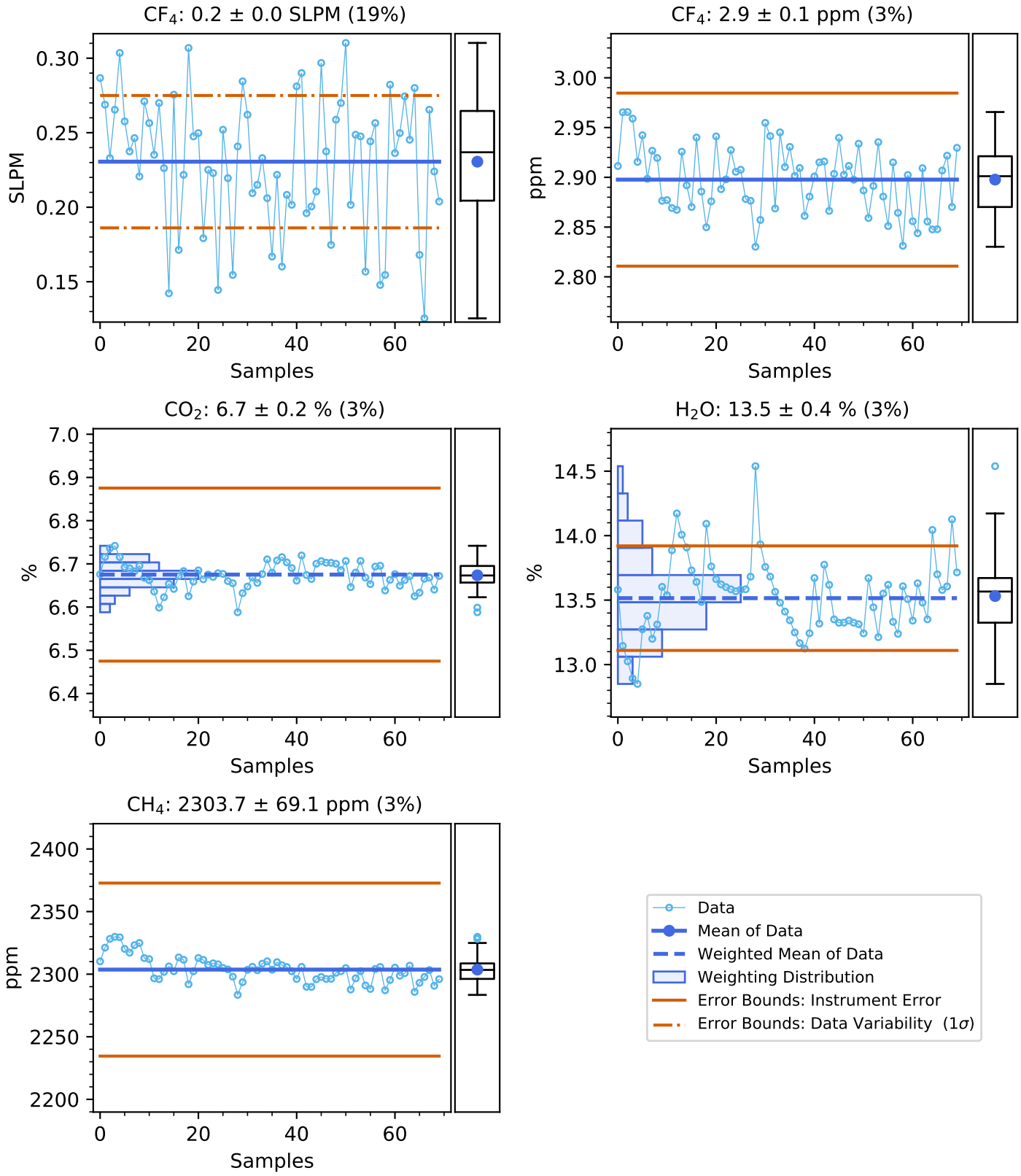
Facility: 430 Unit: 2 Test: 4



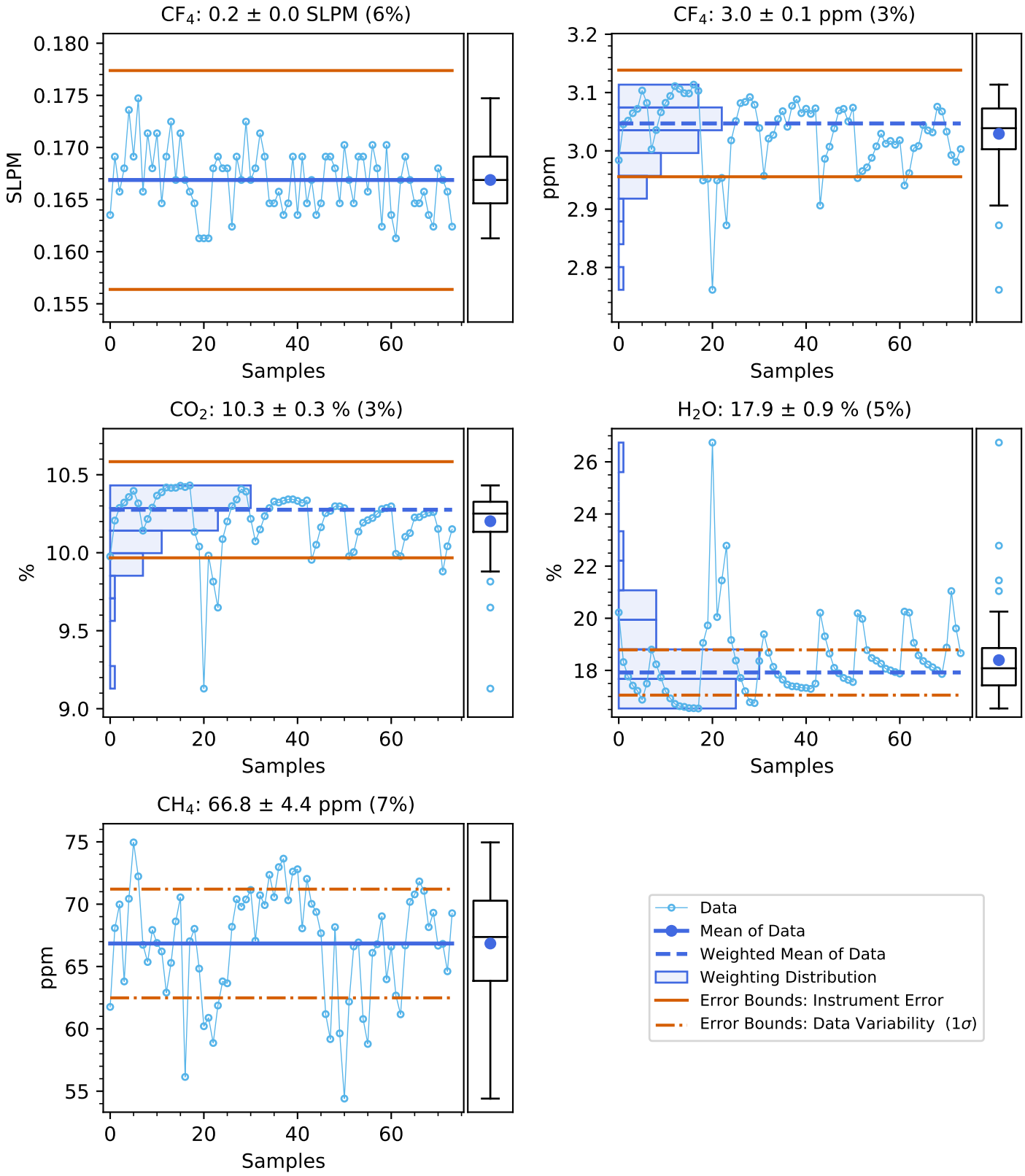
Facility: 430 Unit: 2 Test: 5



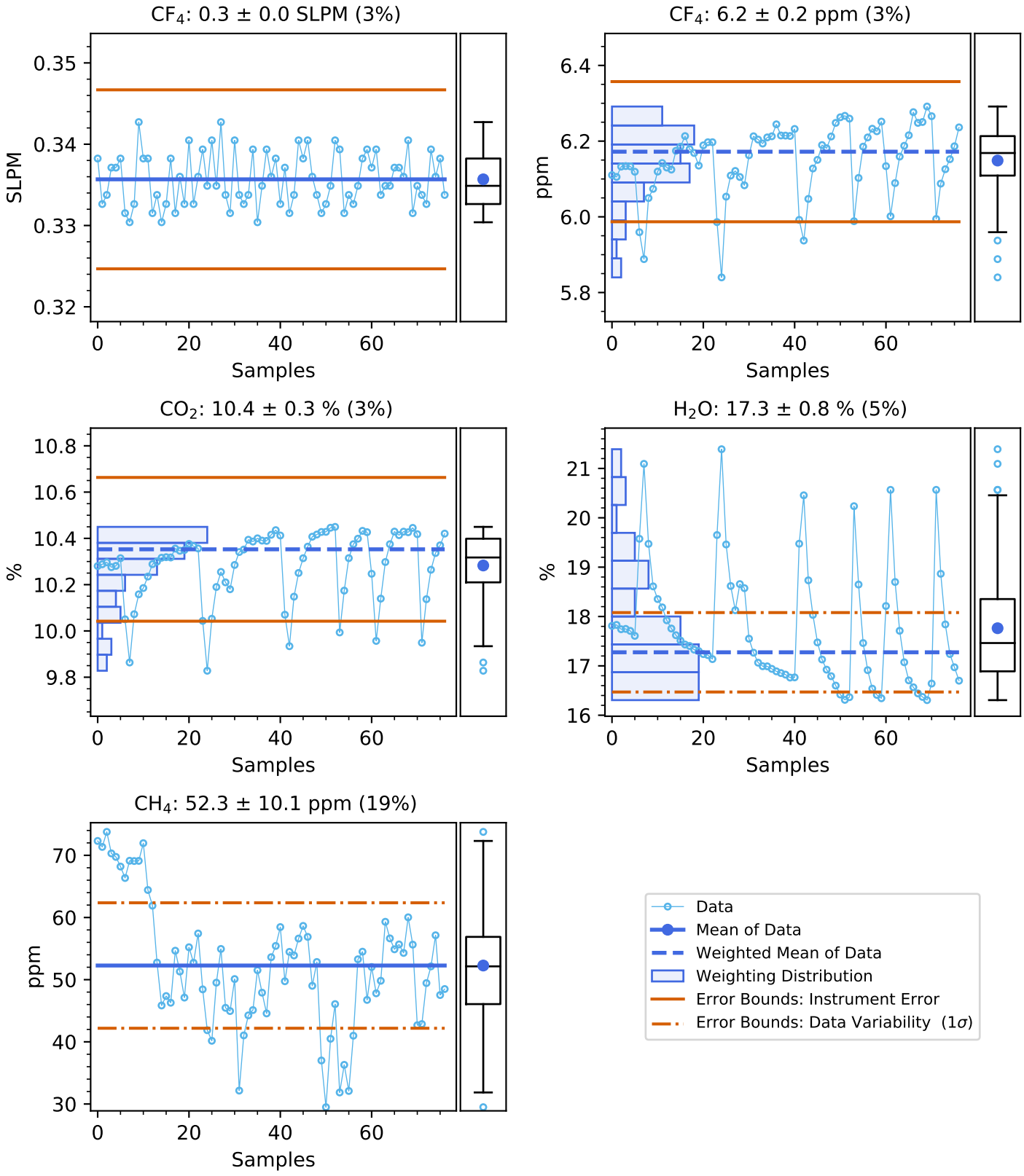
Facility: 430 Unit: 2 Test: 6



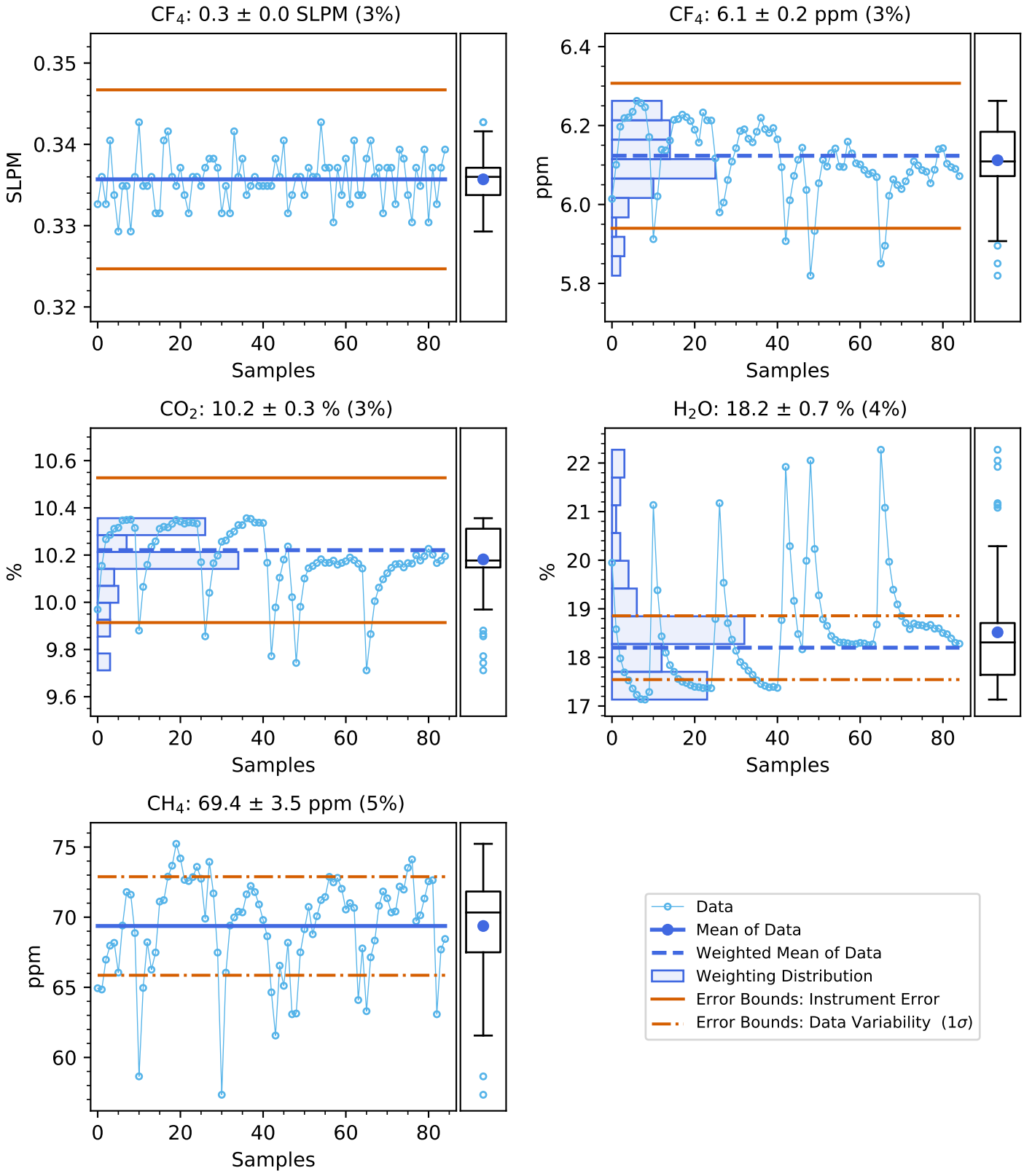
Facility: 2927 Unit: 1 Test: 1



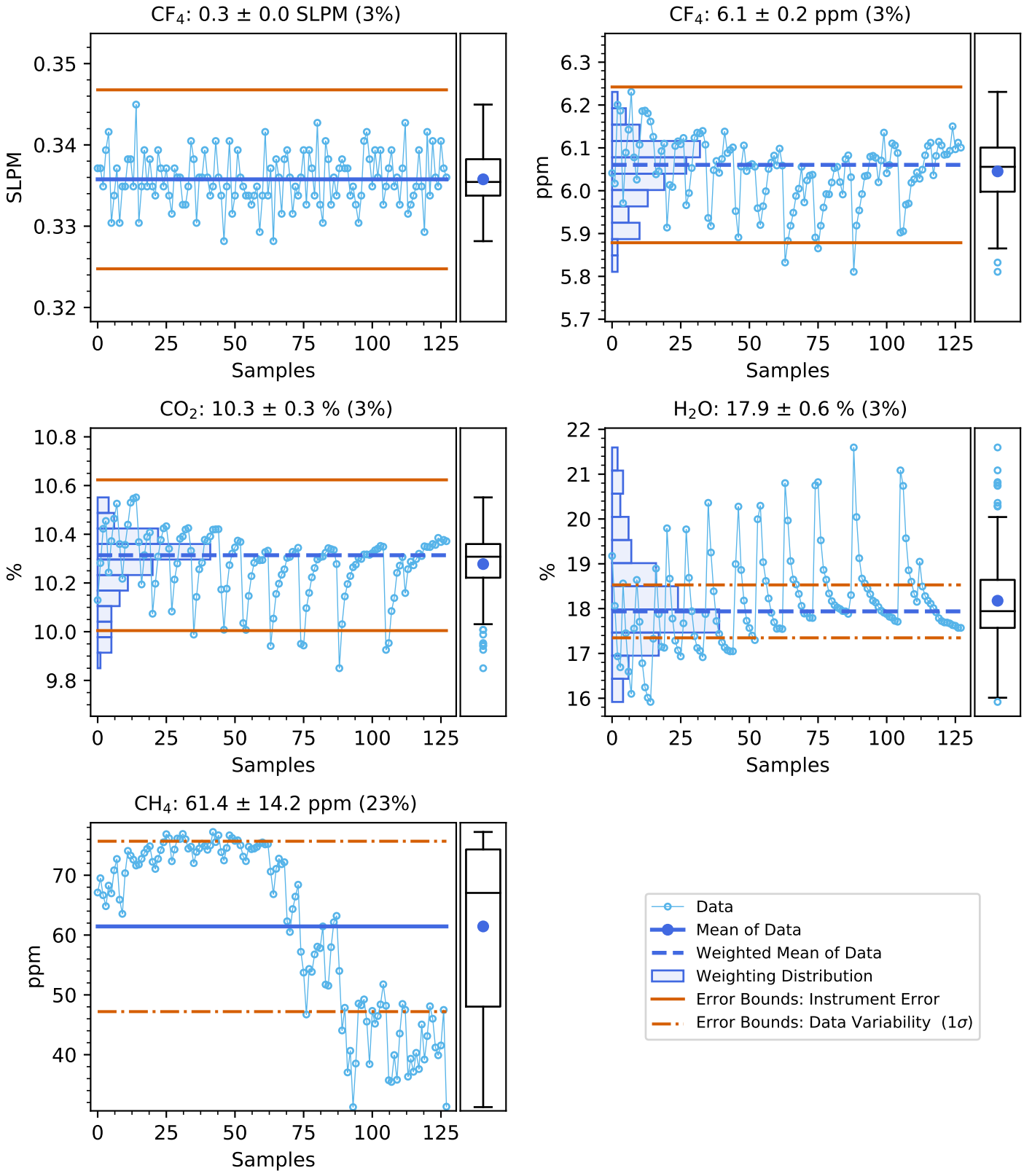
Facility: 2927 Unit: 1 Test: 2



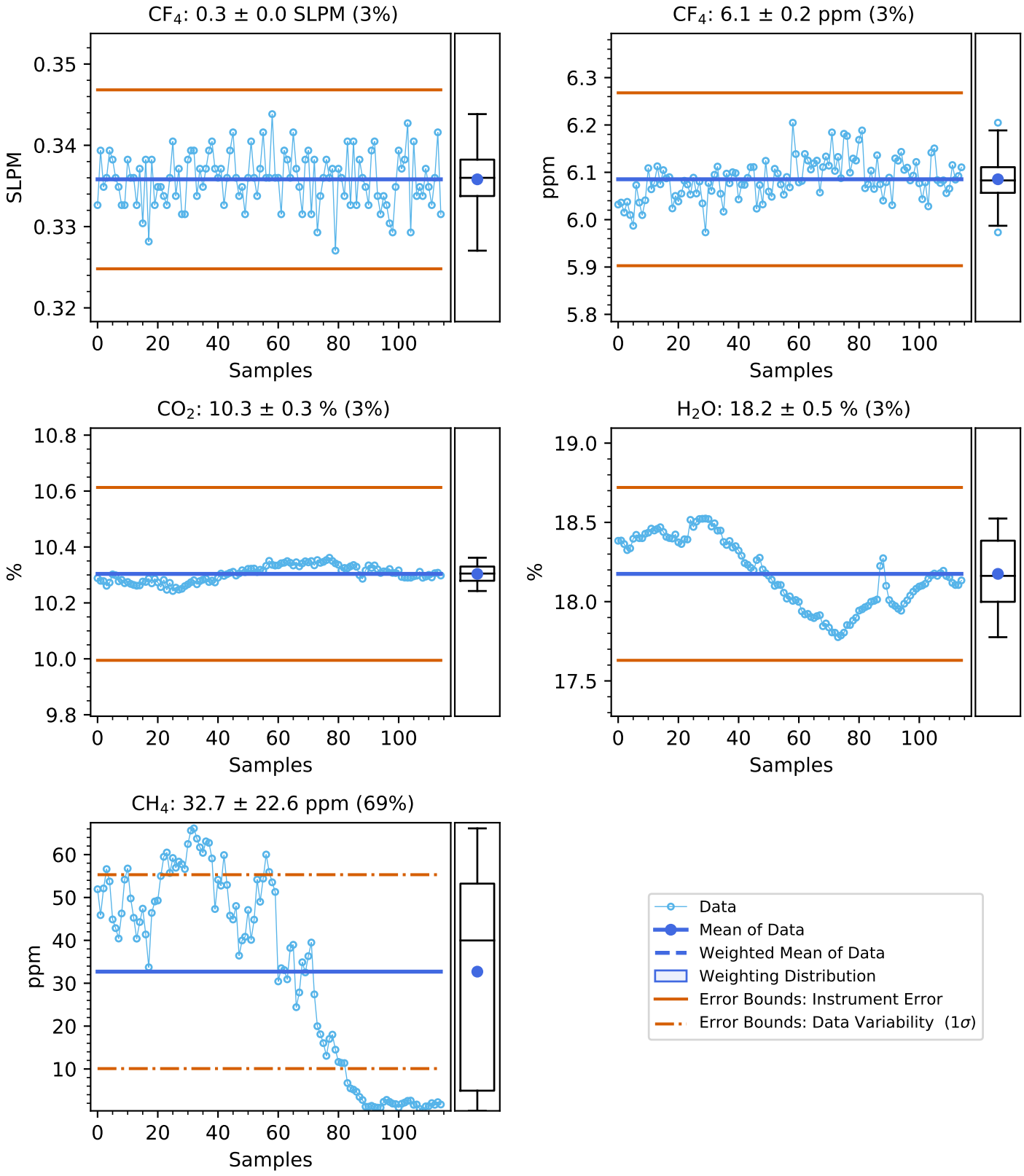
Facility: 2927 Unit: 1 Test: 3



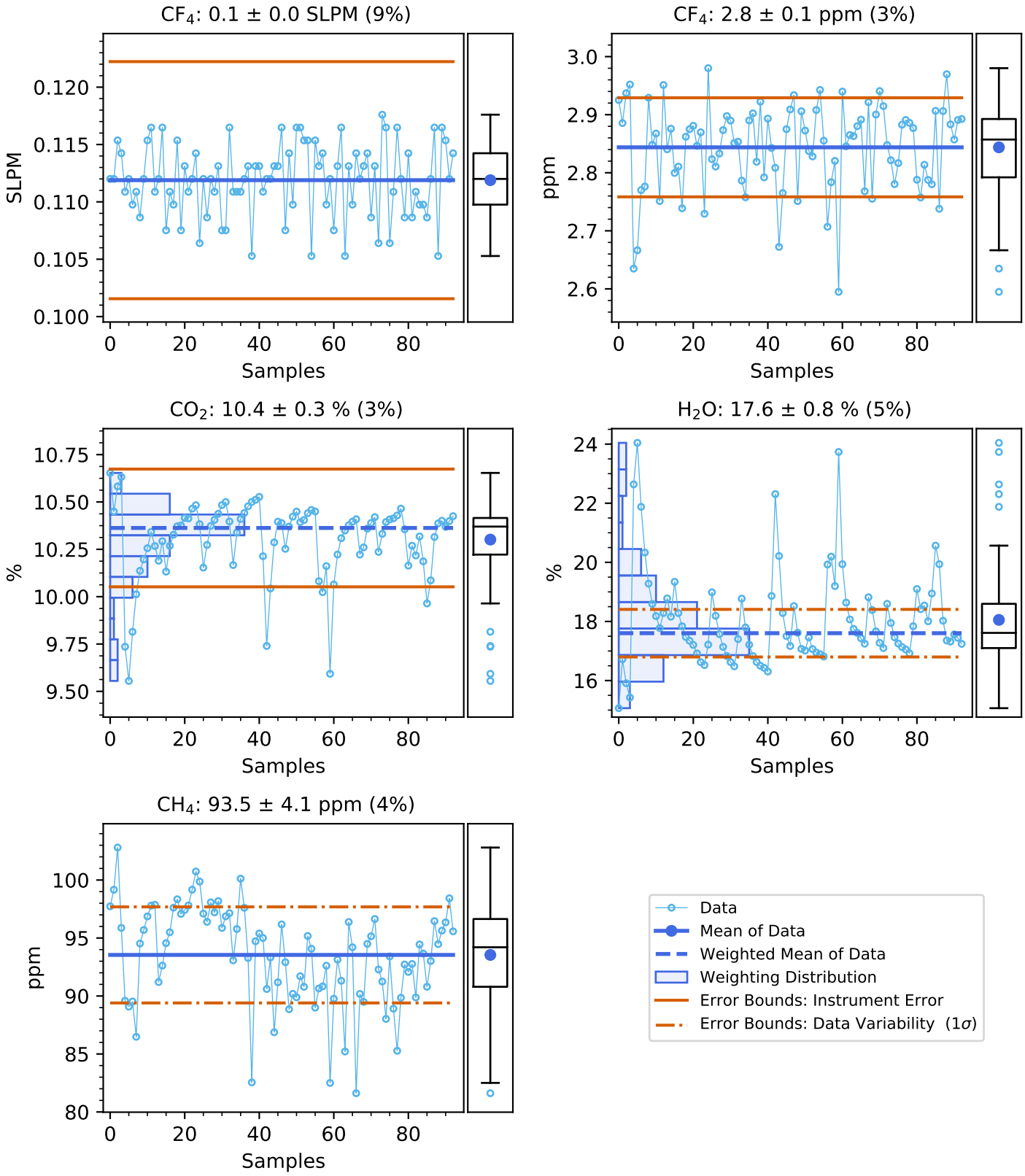
Facility: 2927 Unit: 1 Test: 4



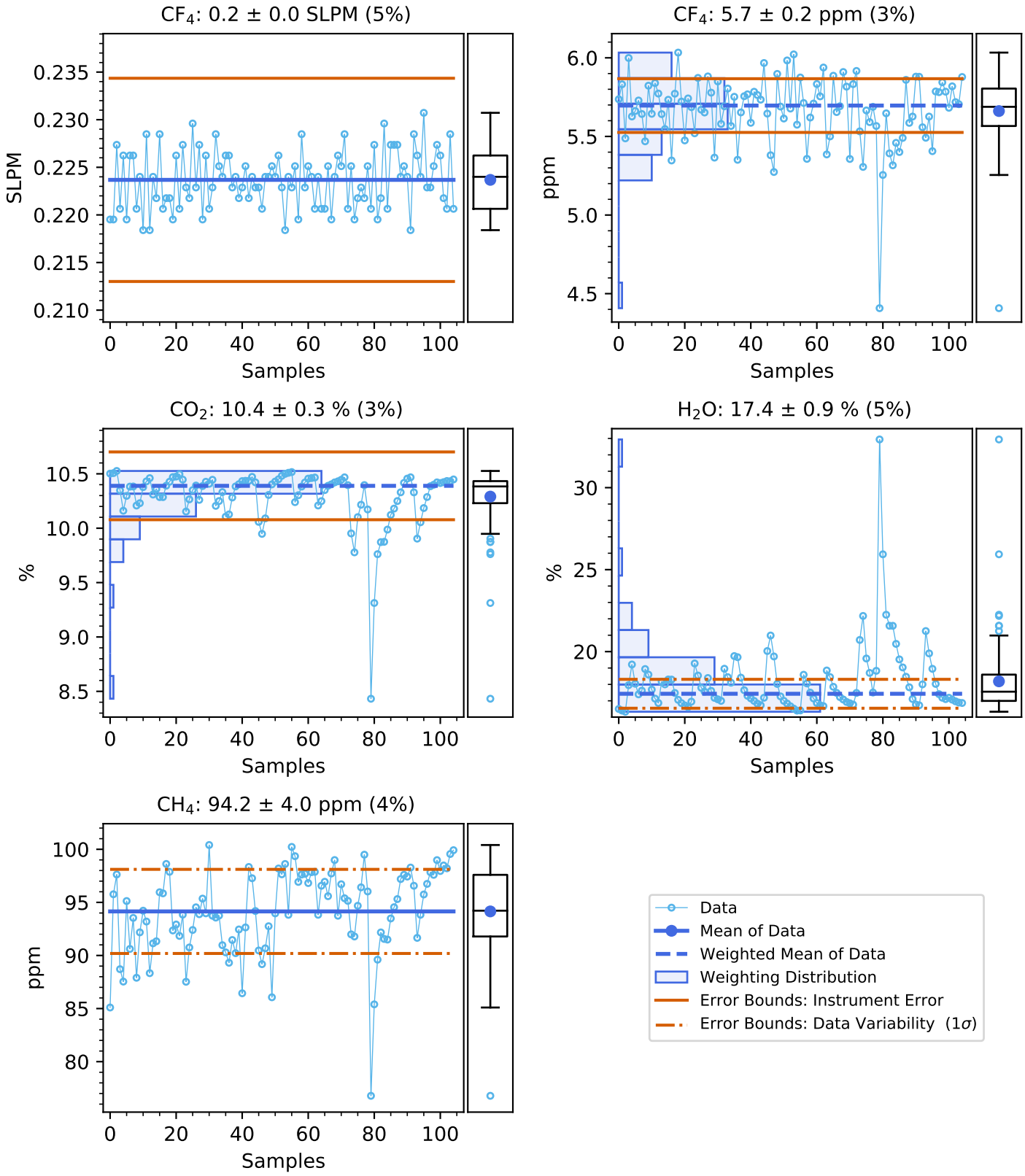
Facility: 2927 Unit: 1 Test: 5



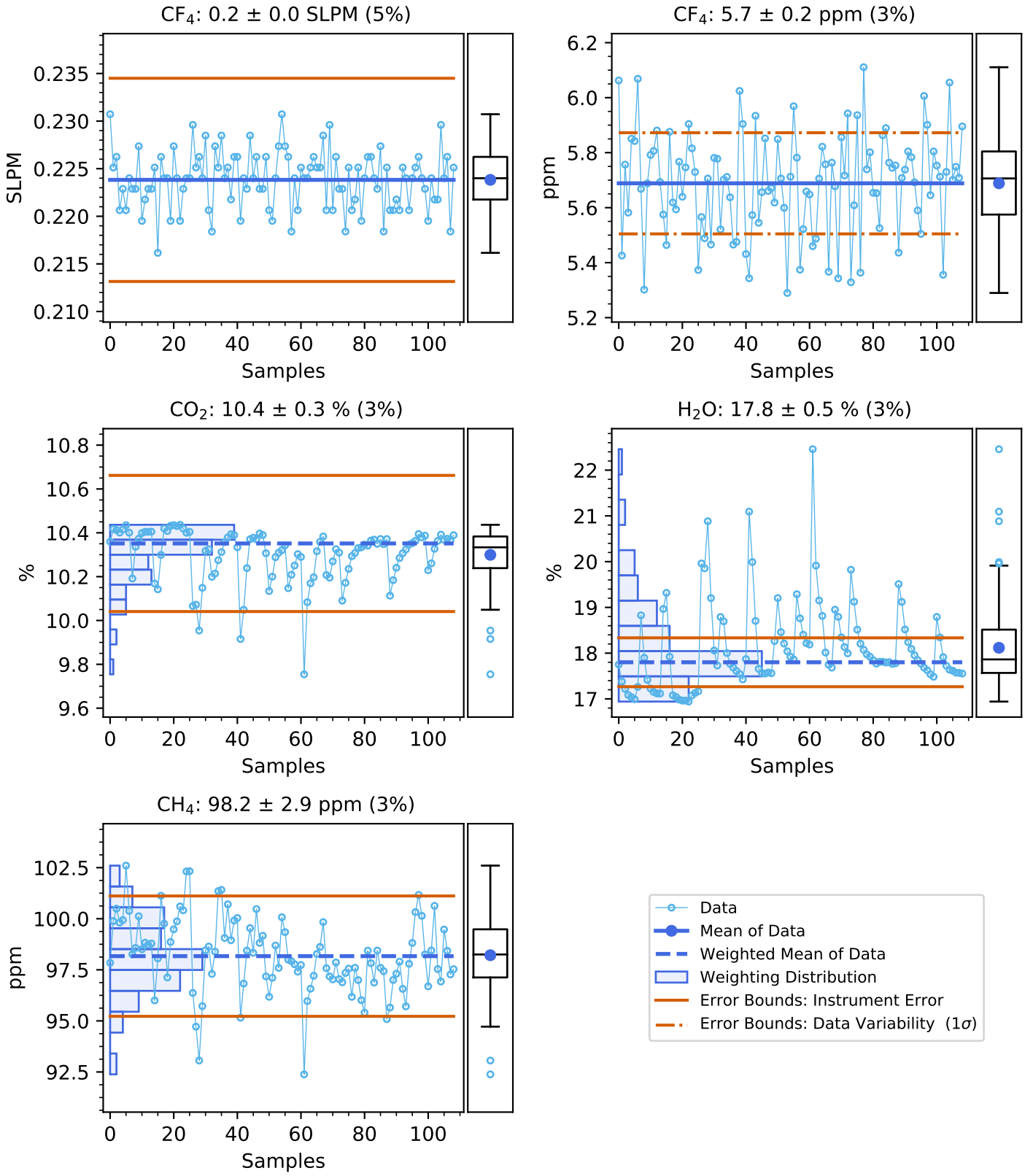
Facility: 2927 Unit: 2 Test: 1



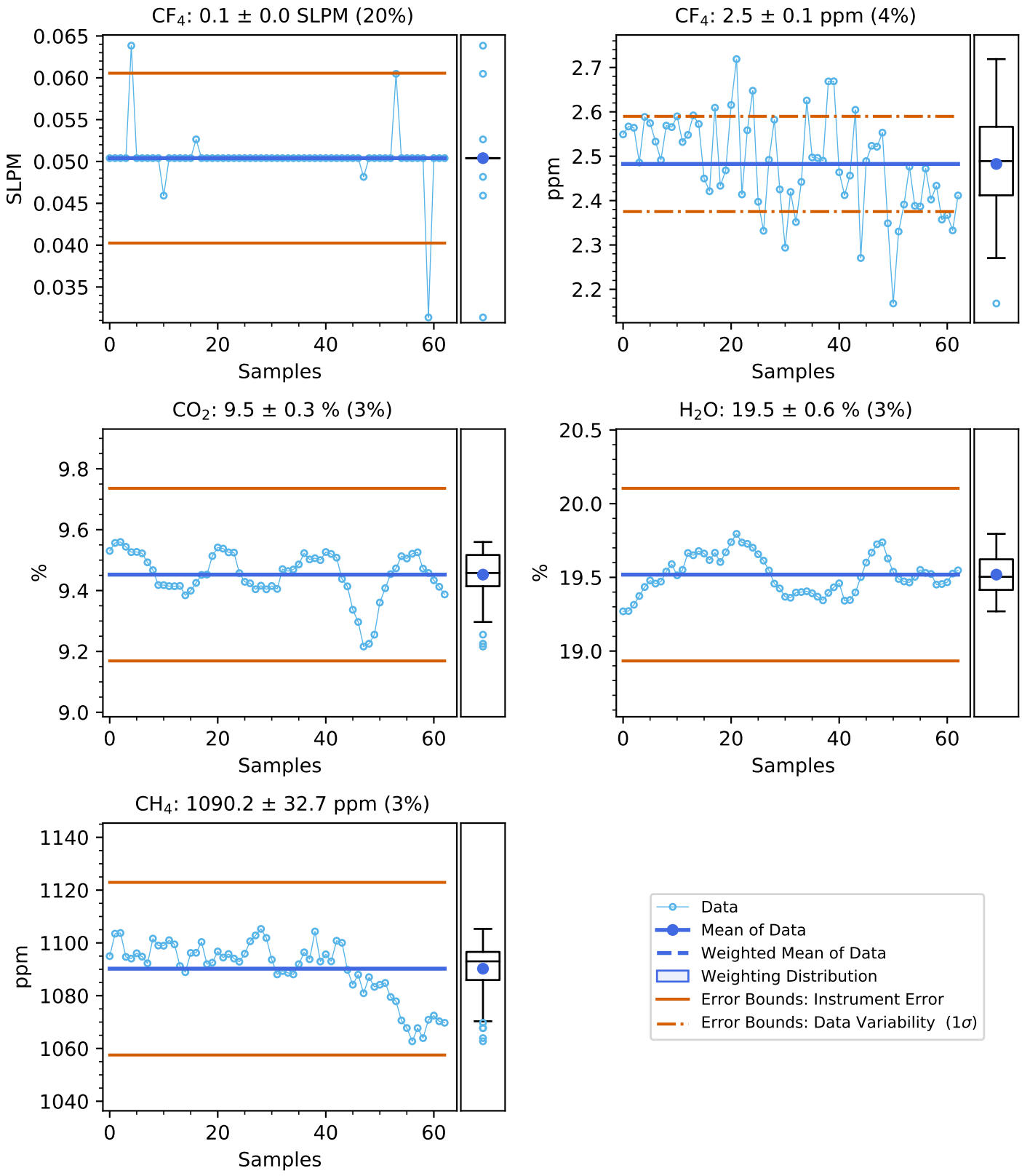
Facility: 2927 Unit: 2 Test: 2



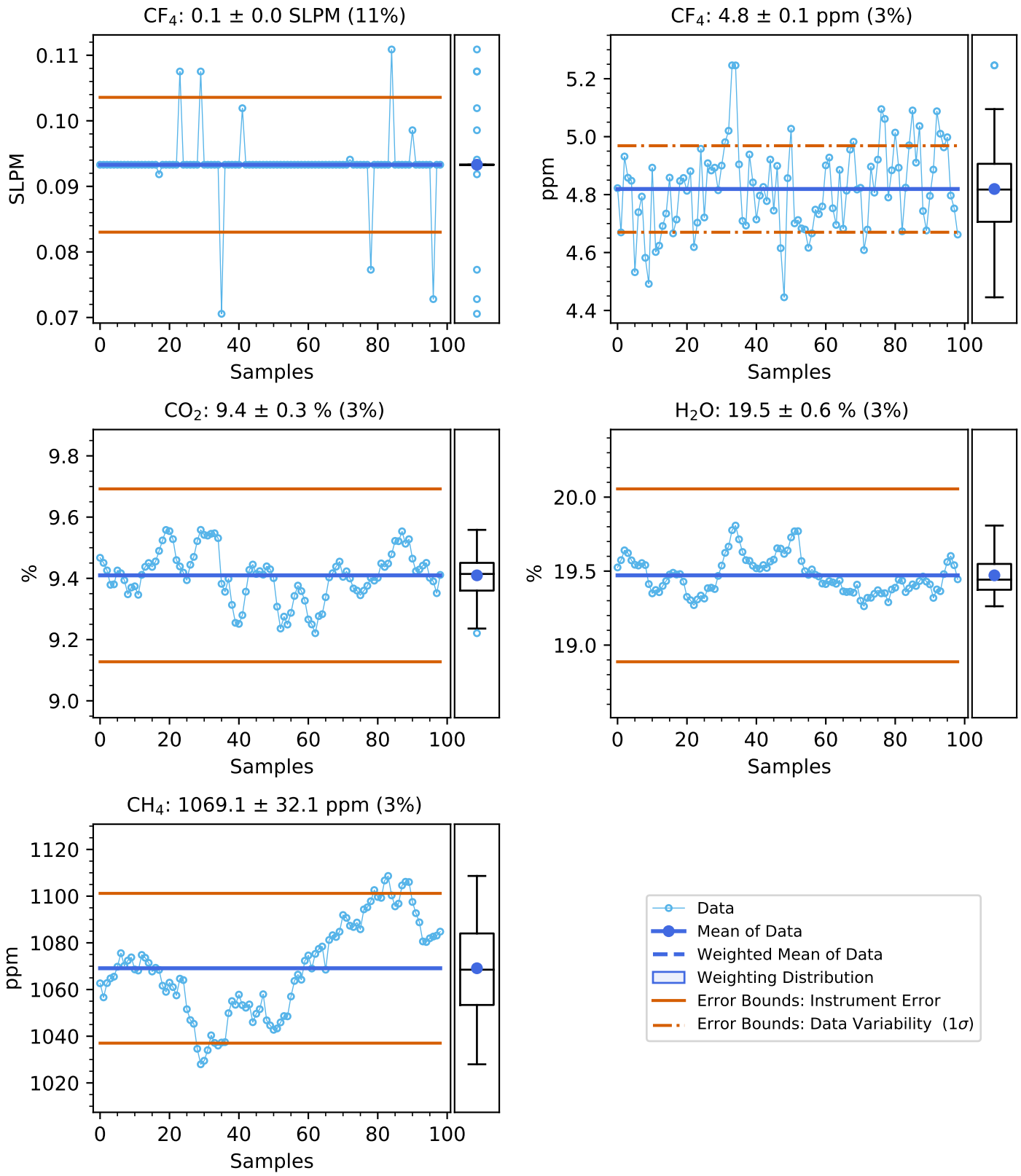
Facility: 2927 Unit: 2 Test: 3



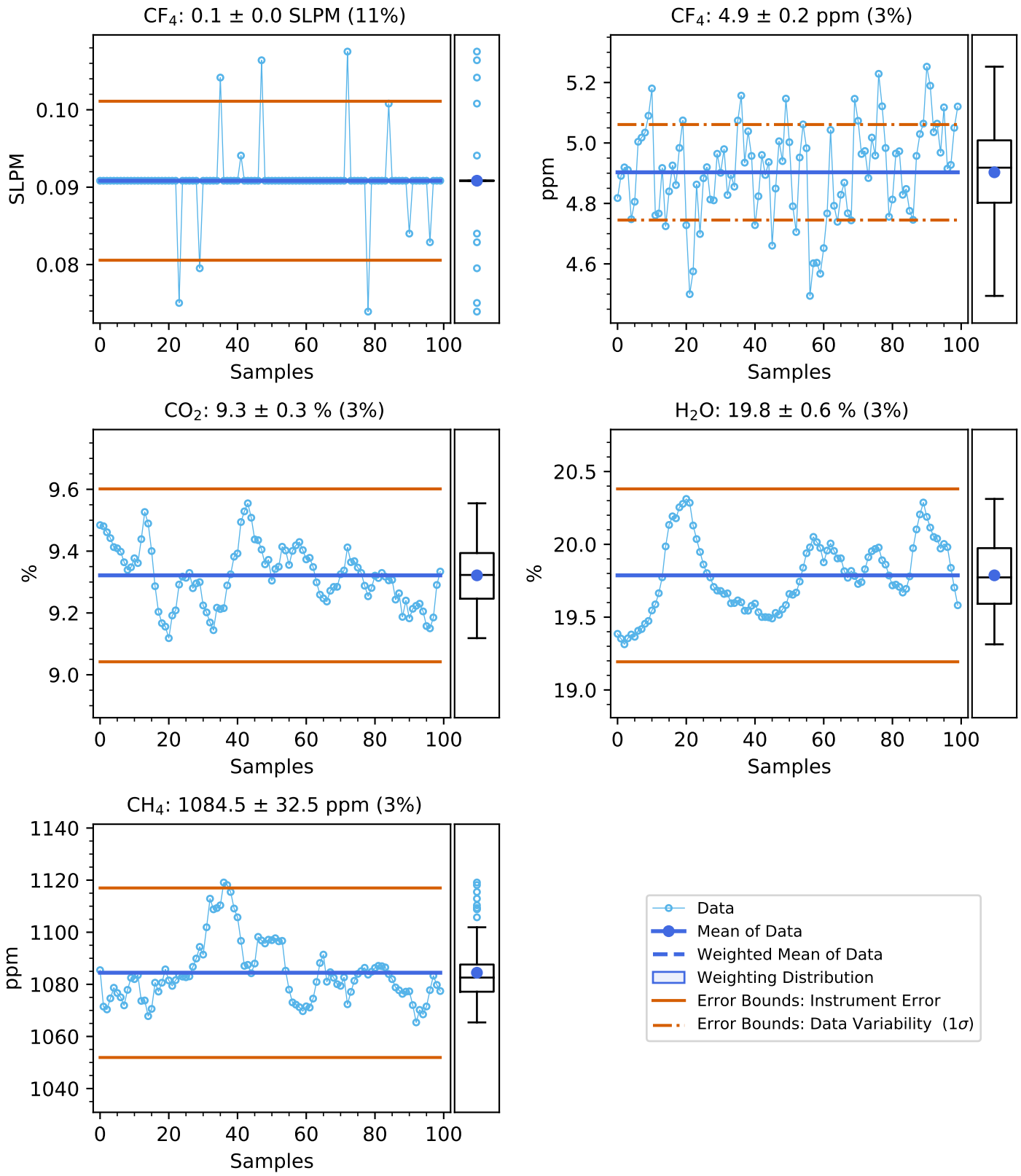
Facility: 136 Unit: 1 Test: 1



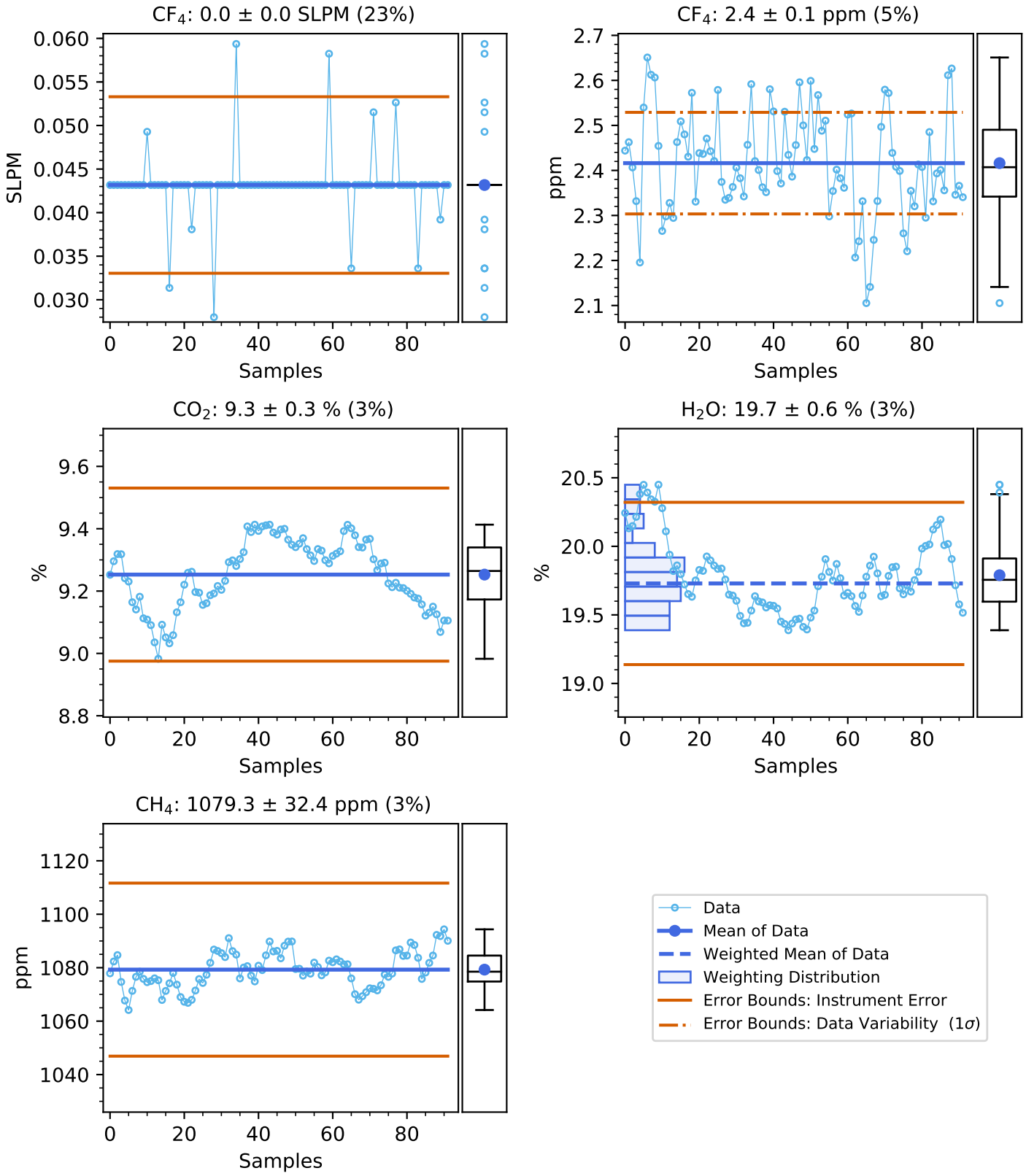
Facility: 136 Unit: 1 Test: 2



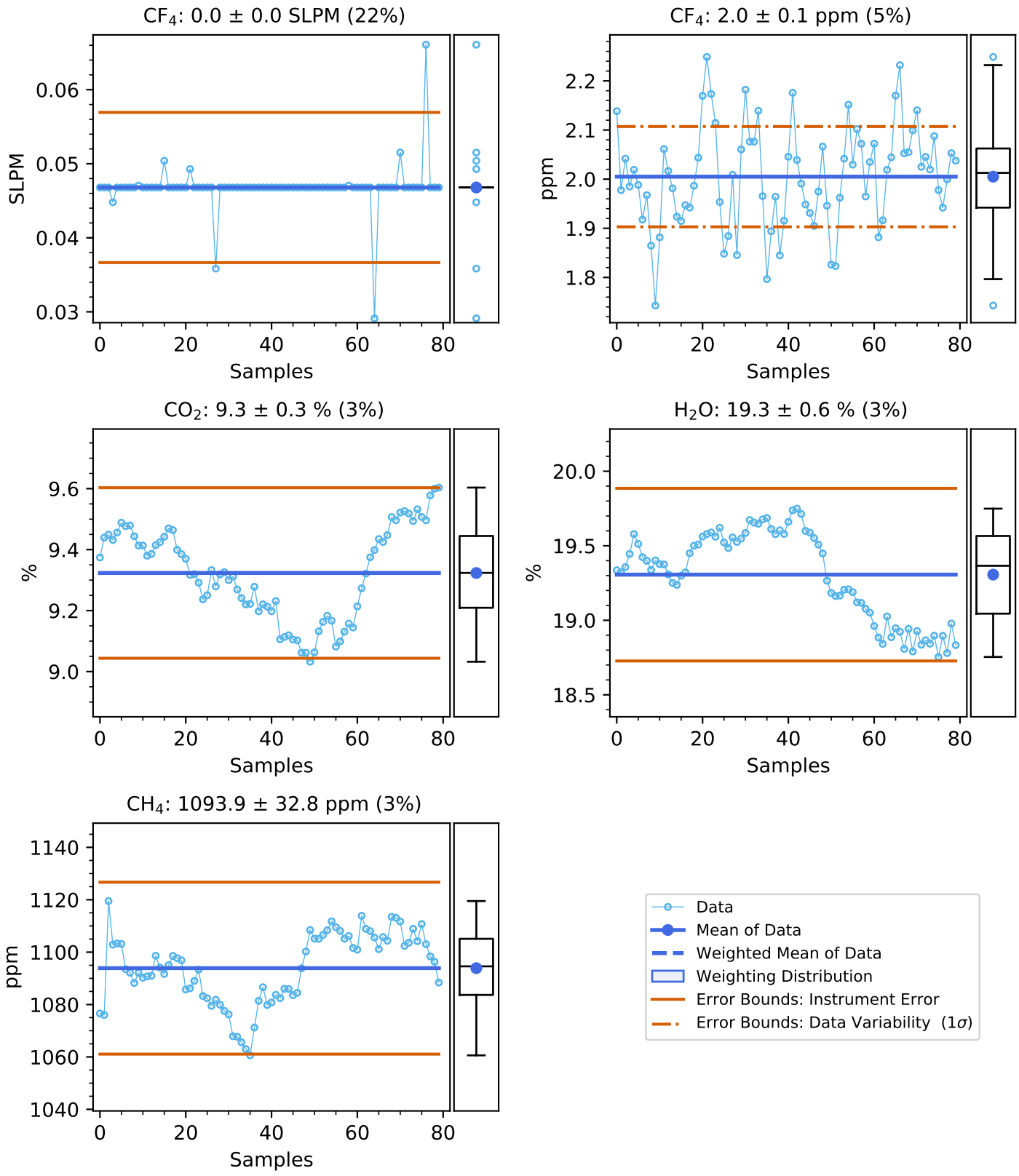
Facility: 136 Unit: 1 Test: 3



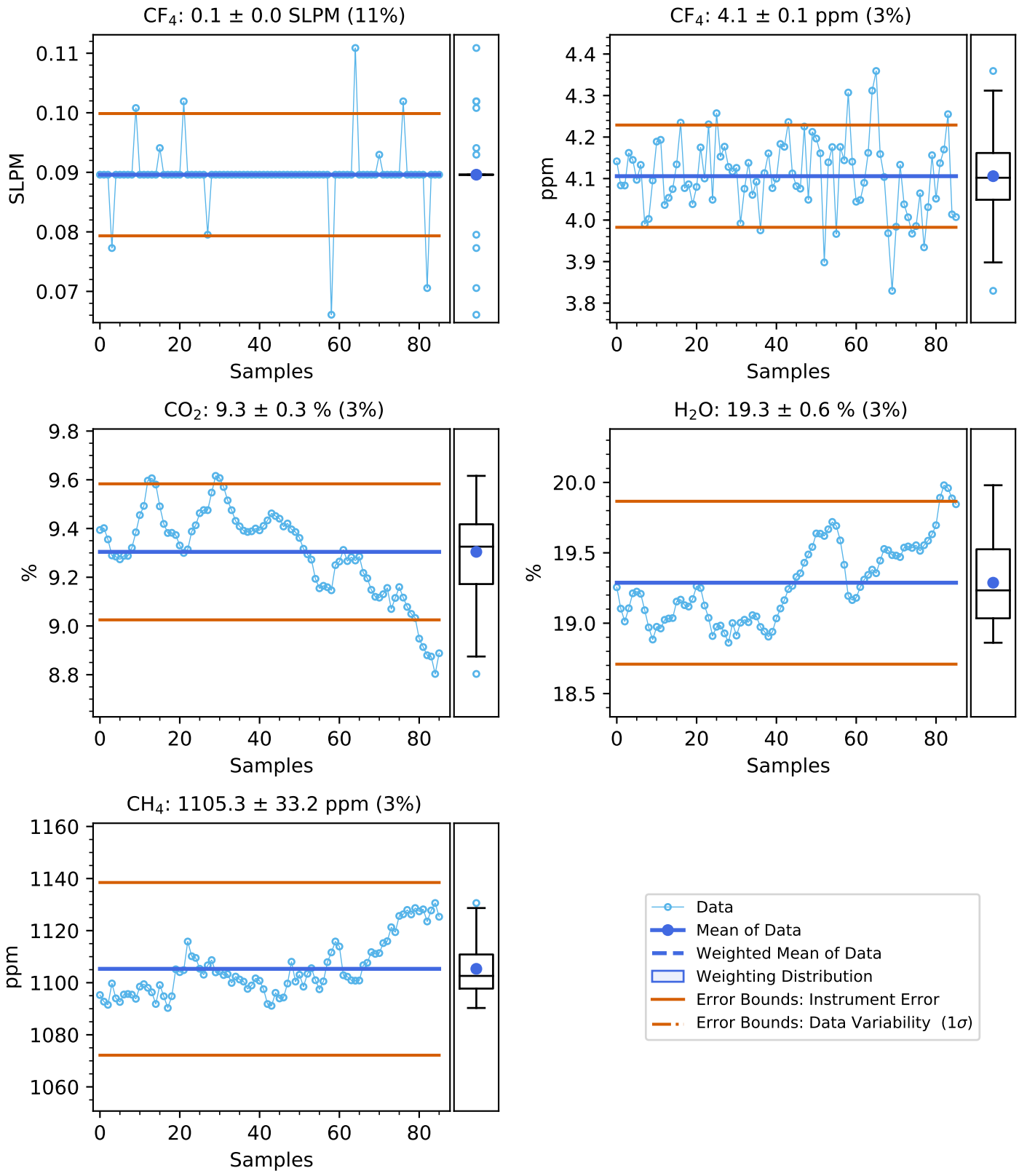
Facility: 136 Unit: 1 Test: 4



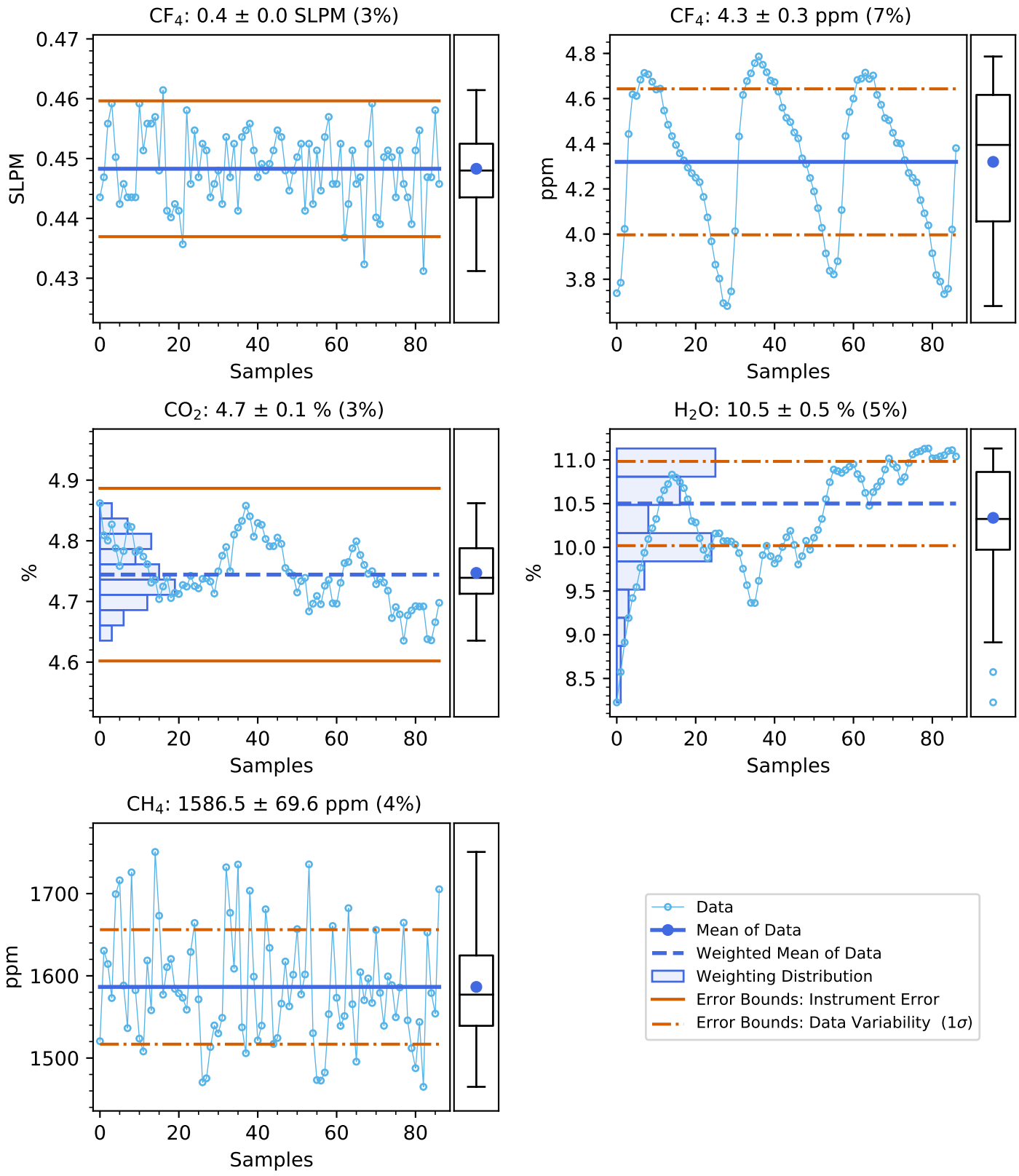
Facility: 136 Unit: 1 Test: 5



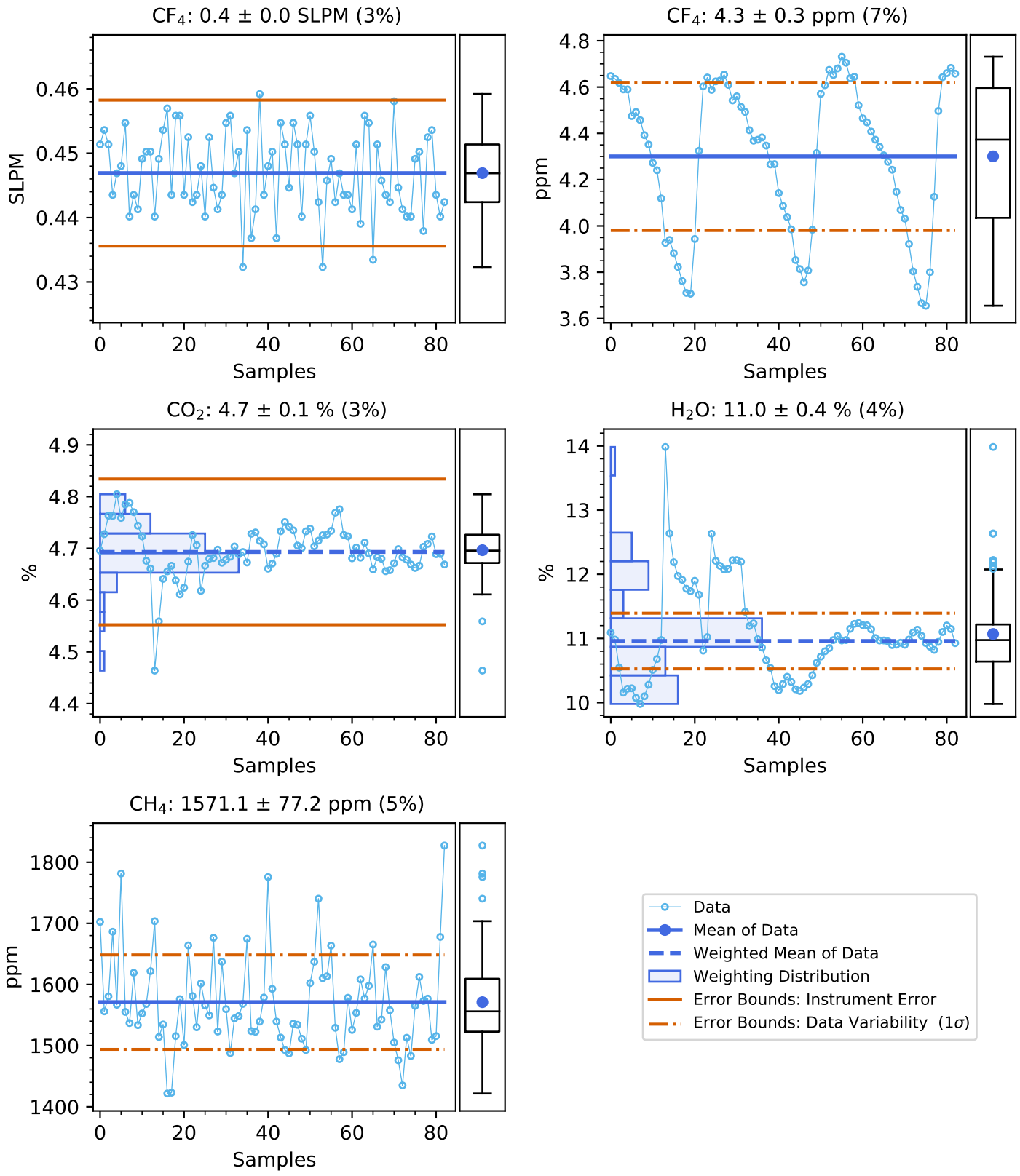
Facility: 136 Unit: 1 Test: 6



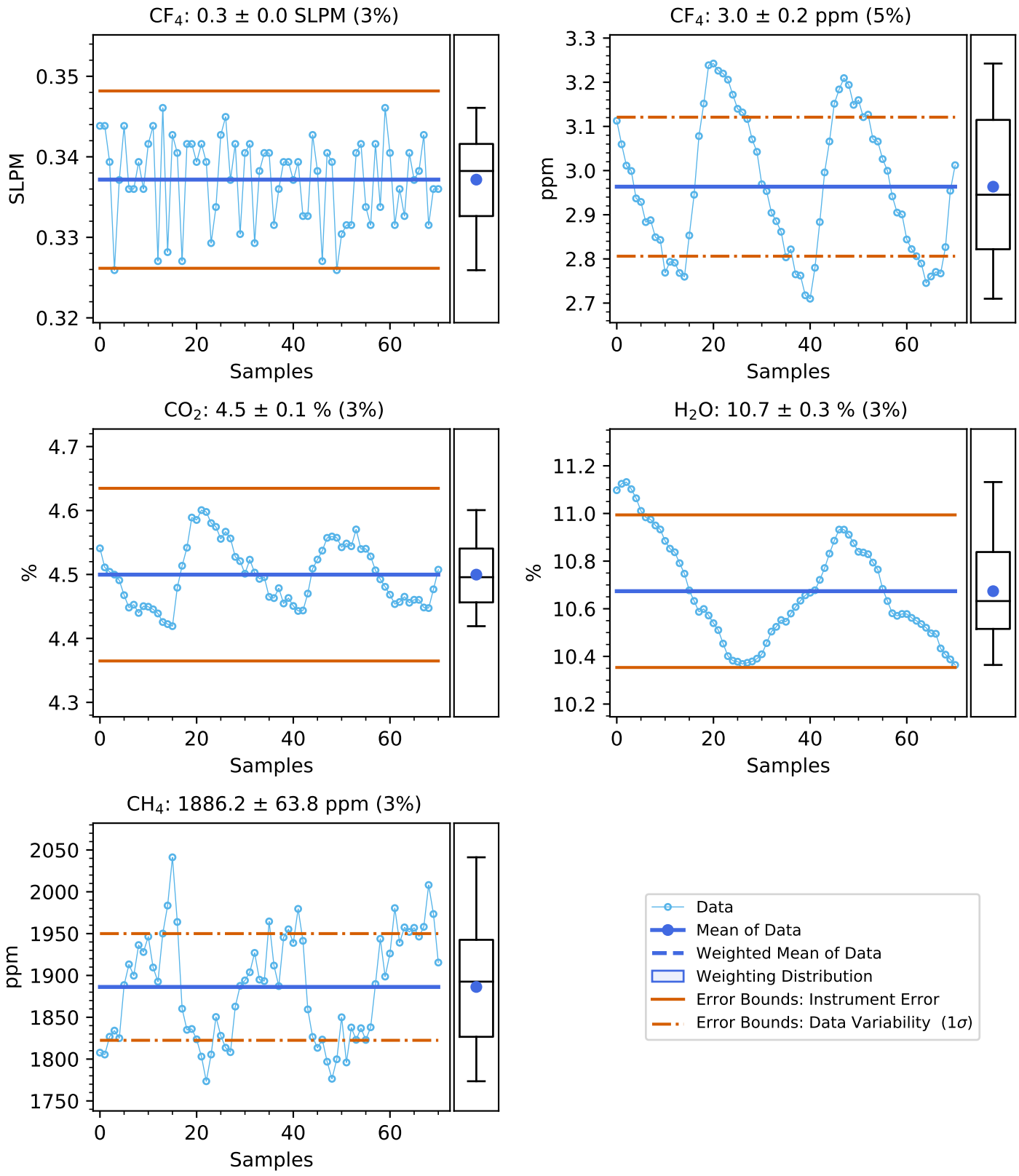
Facility: 790 Unit: 1 Test: 1



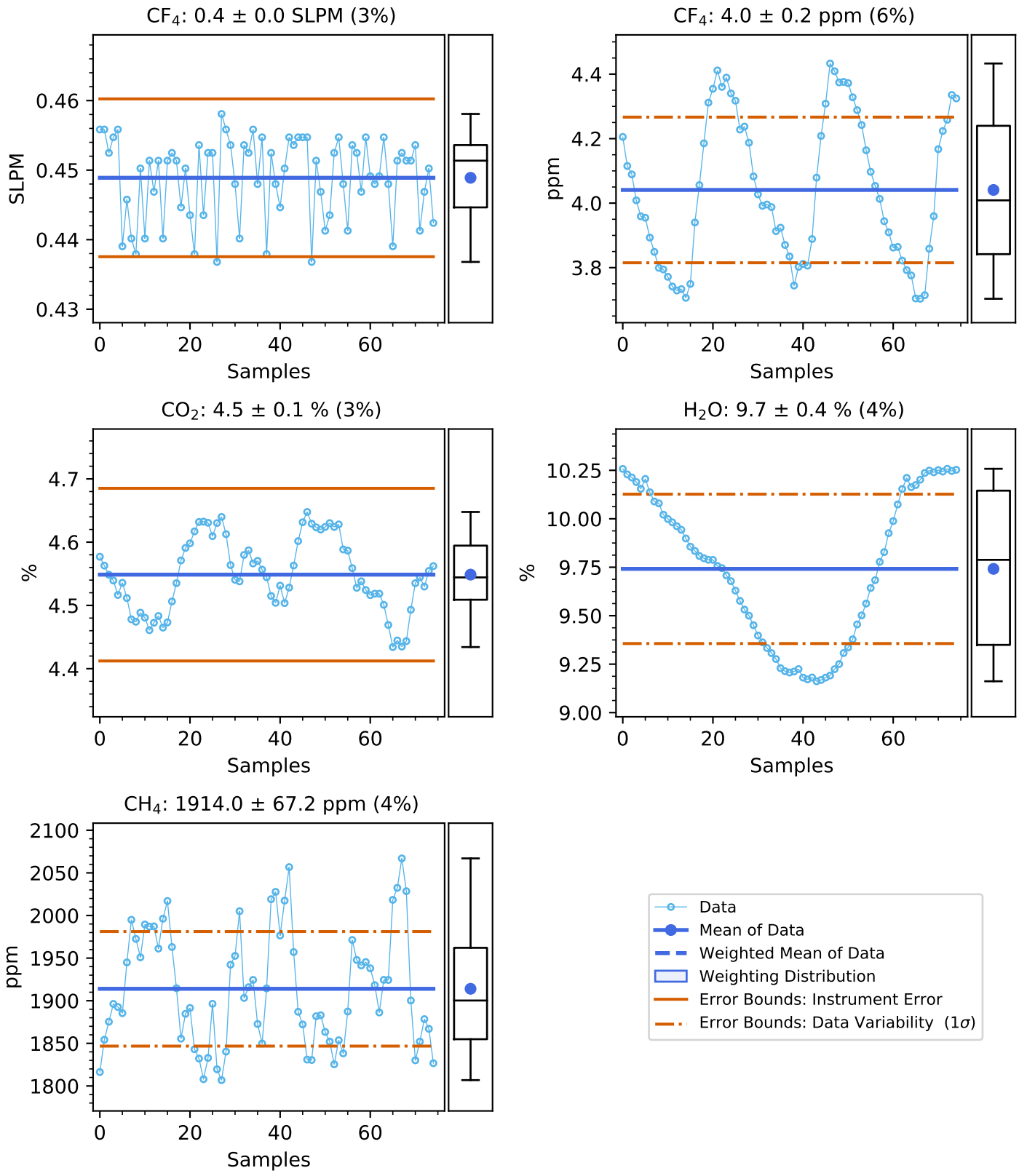
Facility: 790 Unit: 1 Test: 2



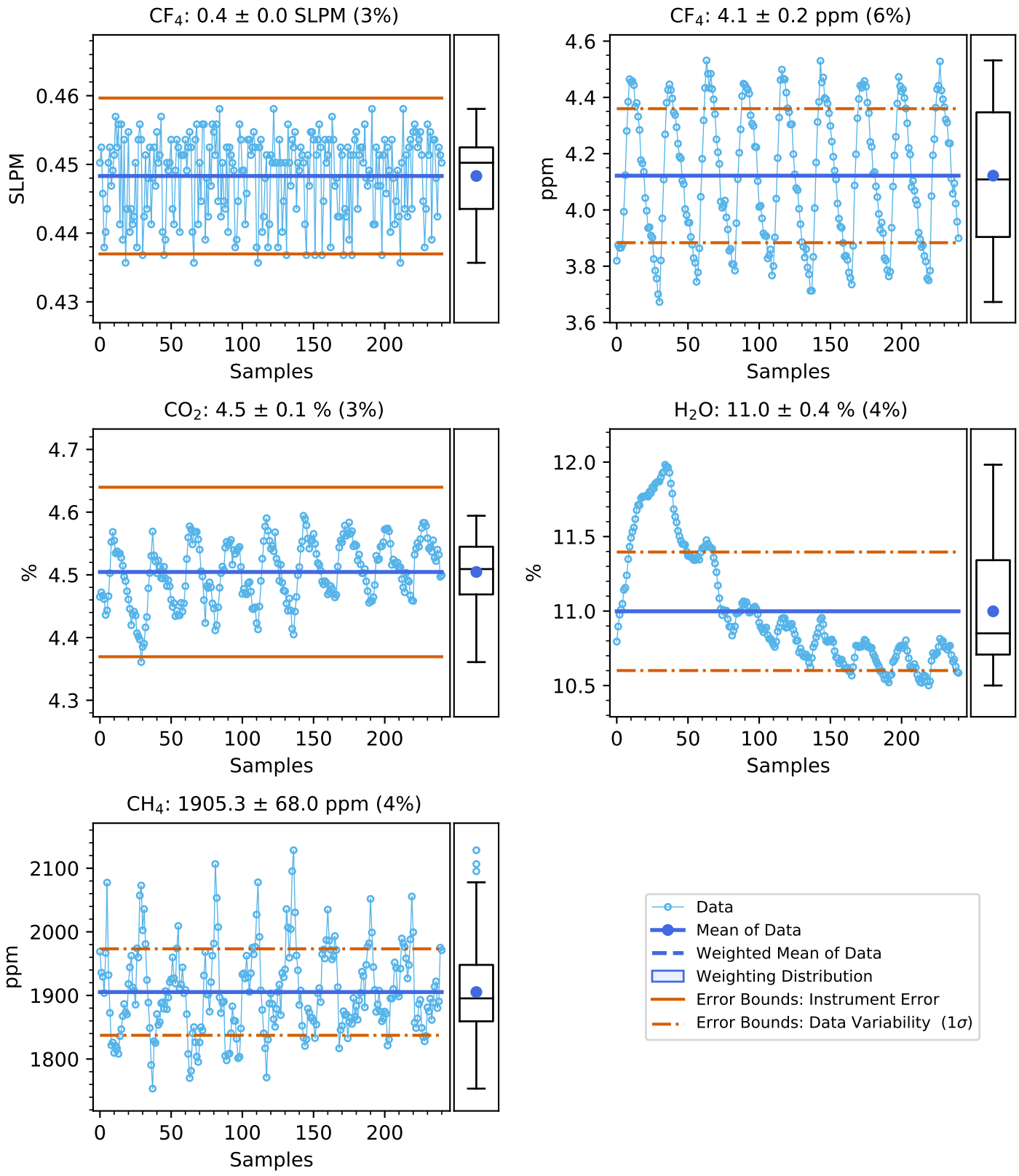
Facility: 790 Unit: 2 Test: 1



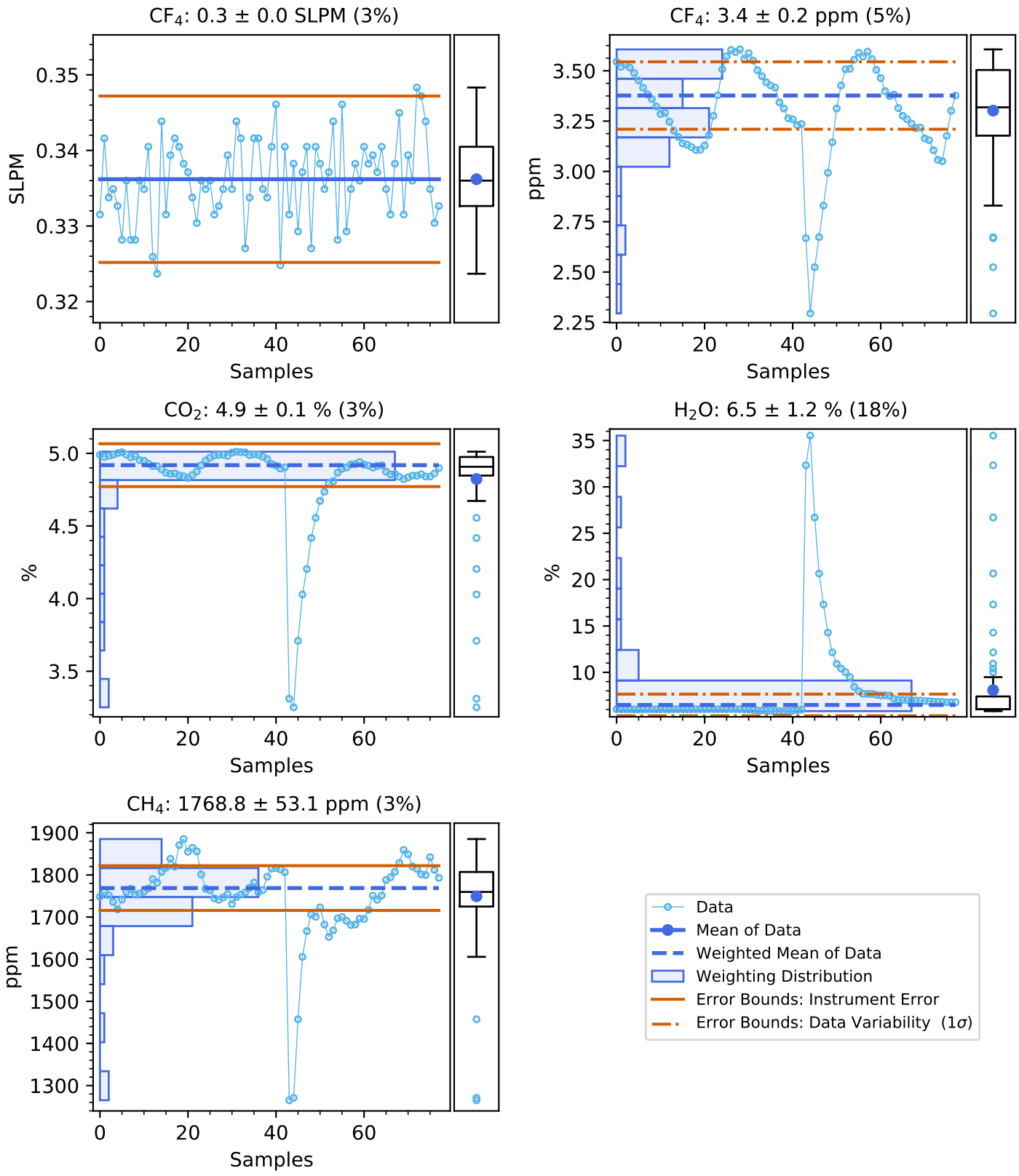
Facility: 790 Unit: 2 Test: 2



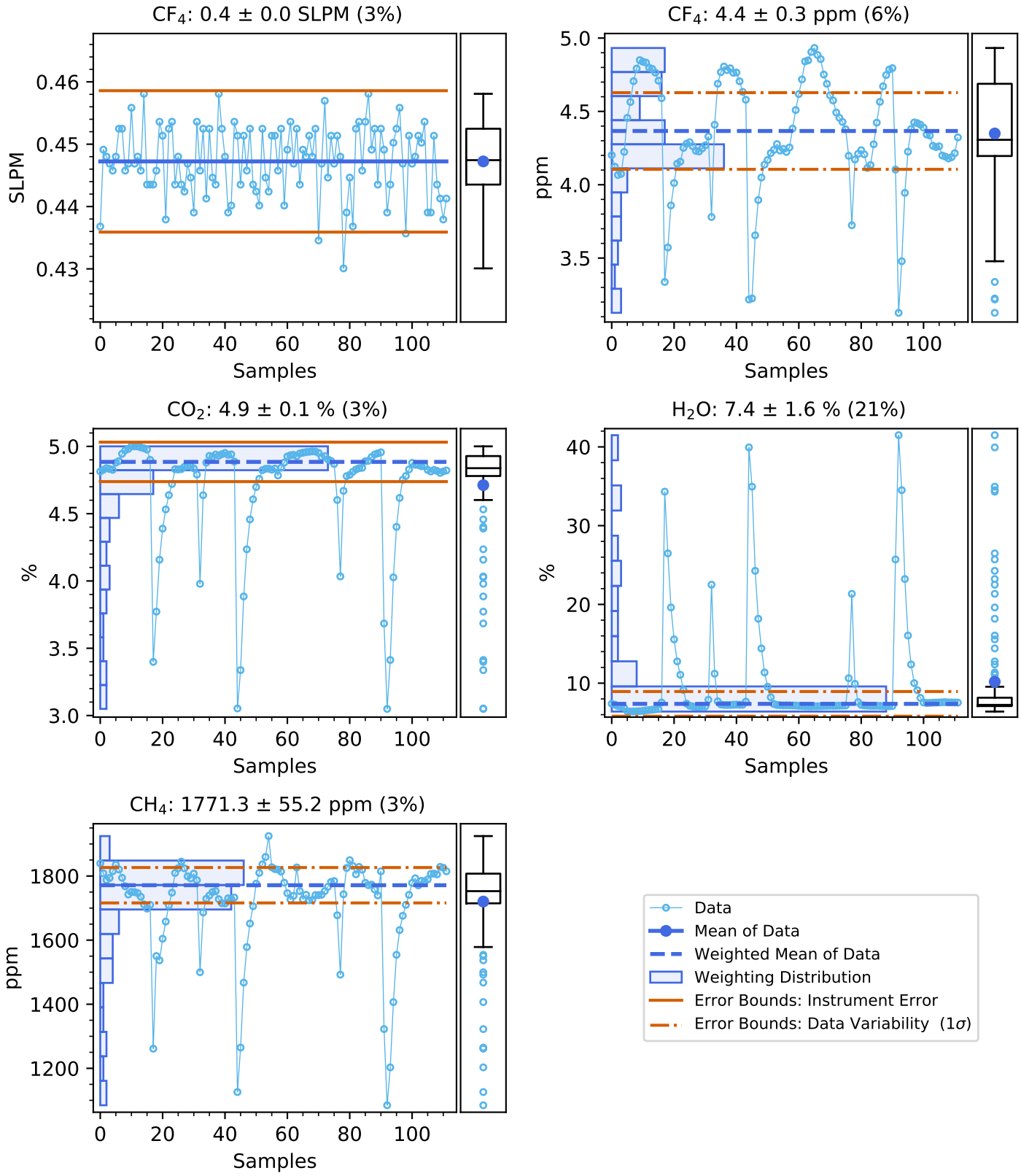
Facility: 790 Unit: 2 Test: 3



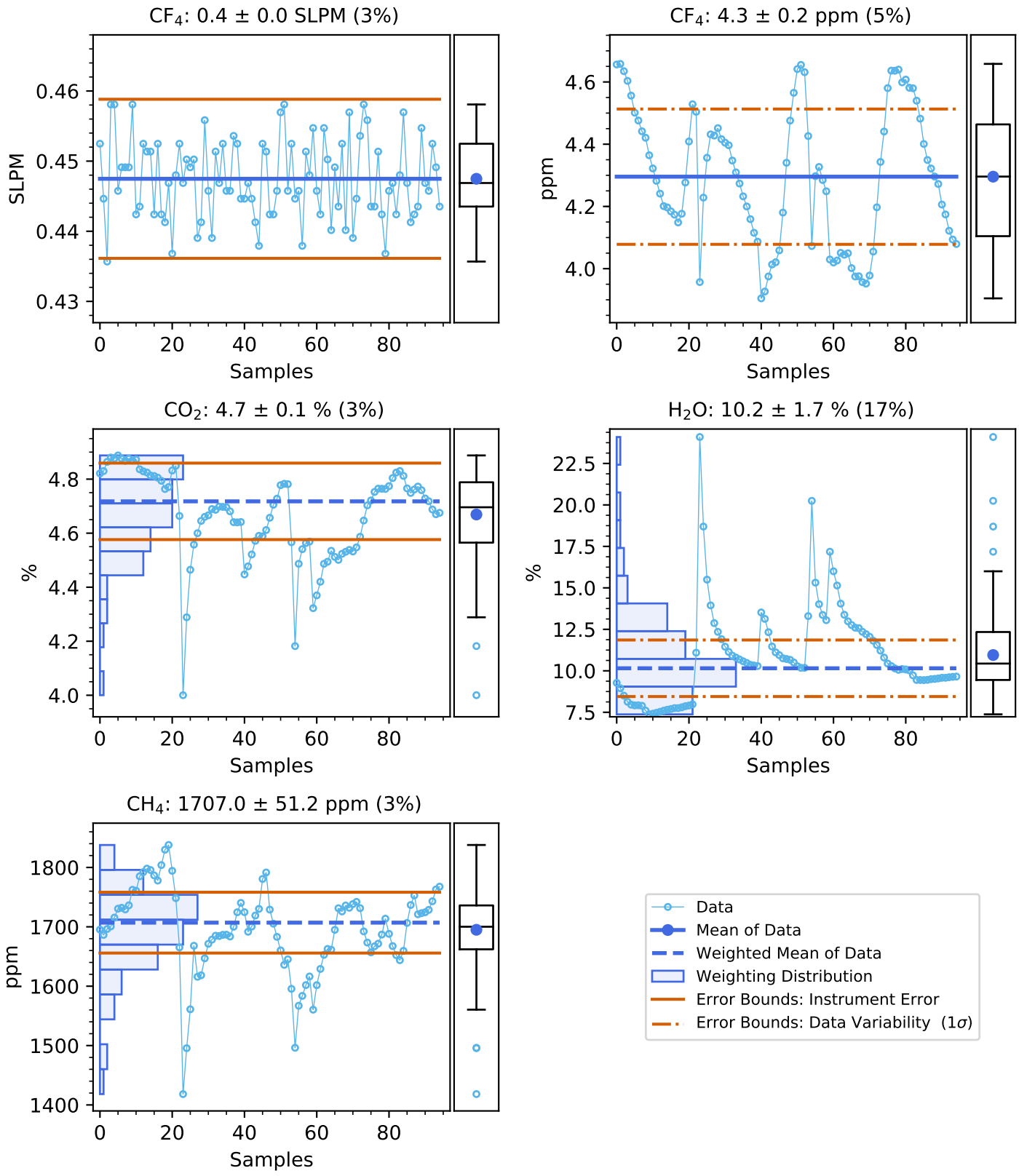
Facility: 790 Unit: 3 Test: 1



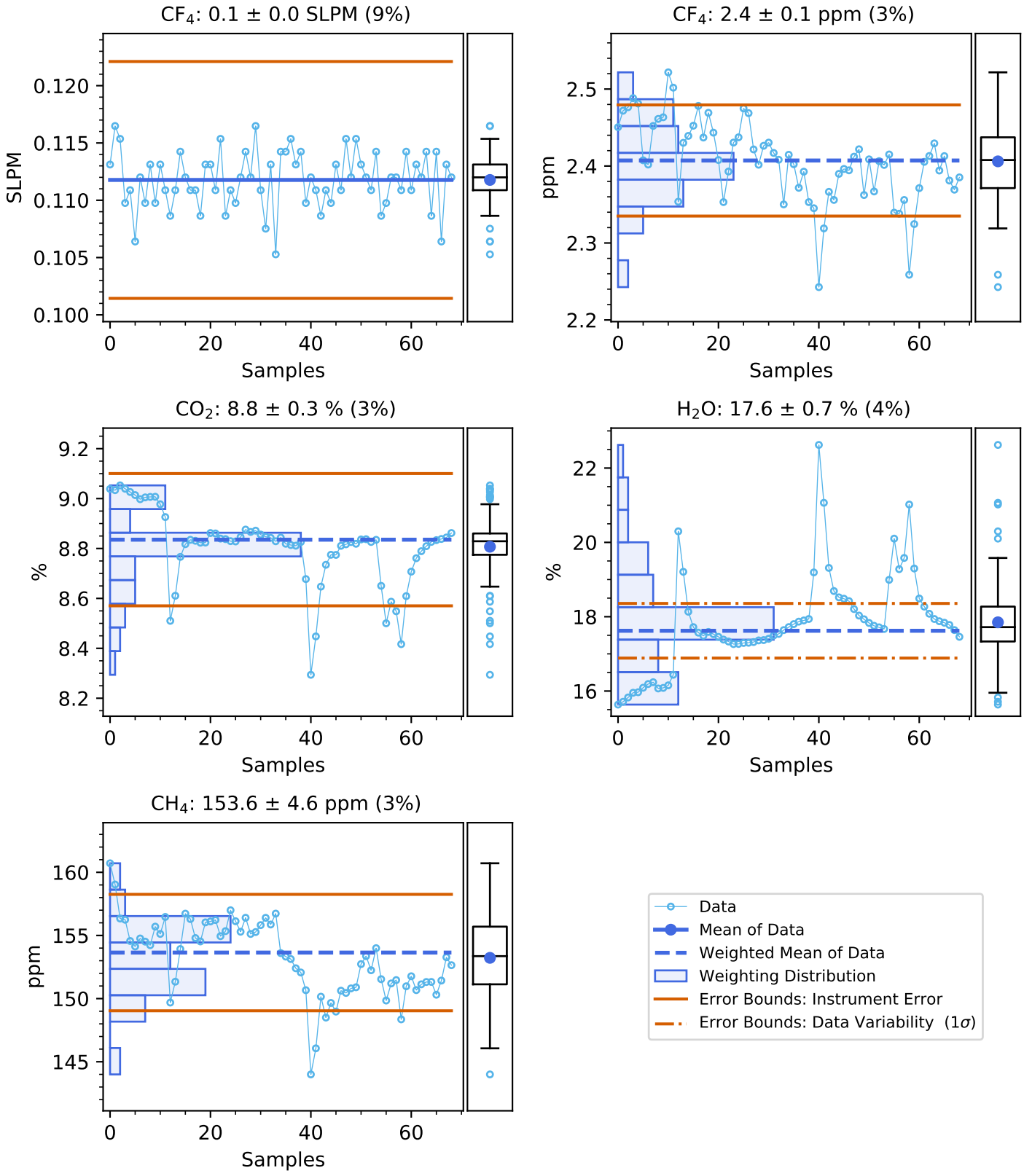
Facility: 790 Unit: 3 Test: 2



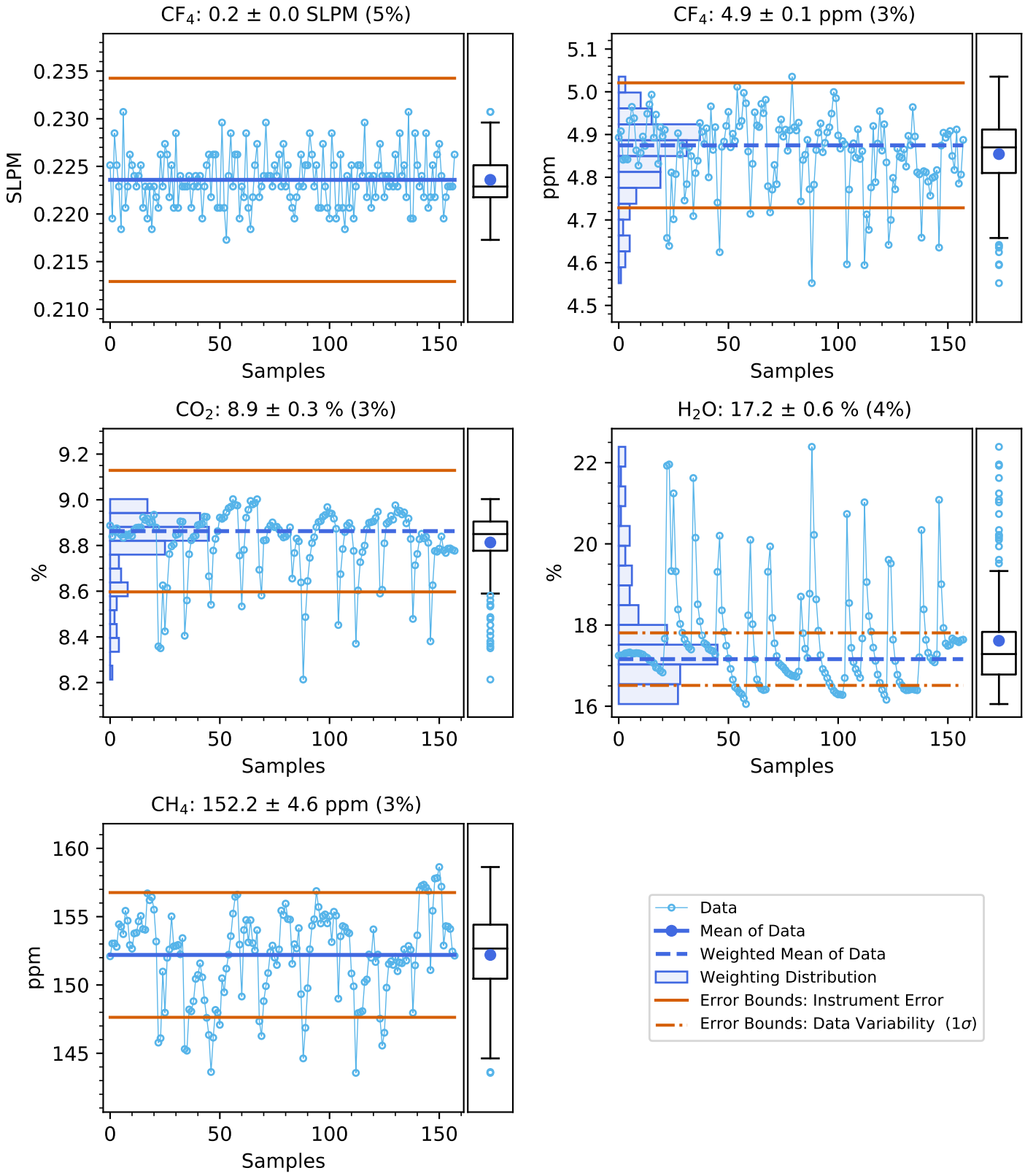
Facility: 790 Unit: 3 Test: 3



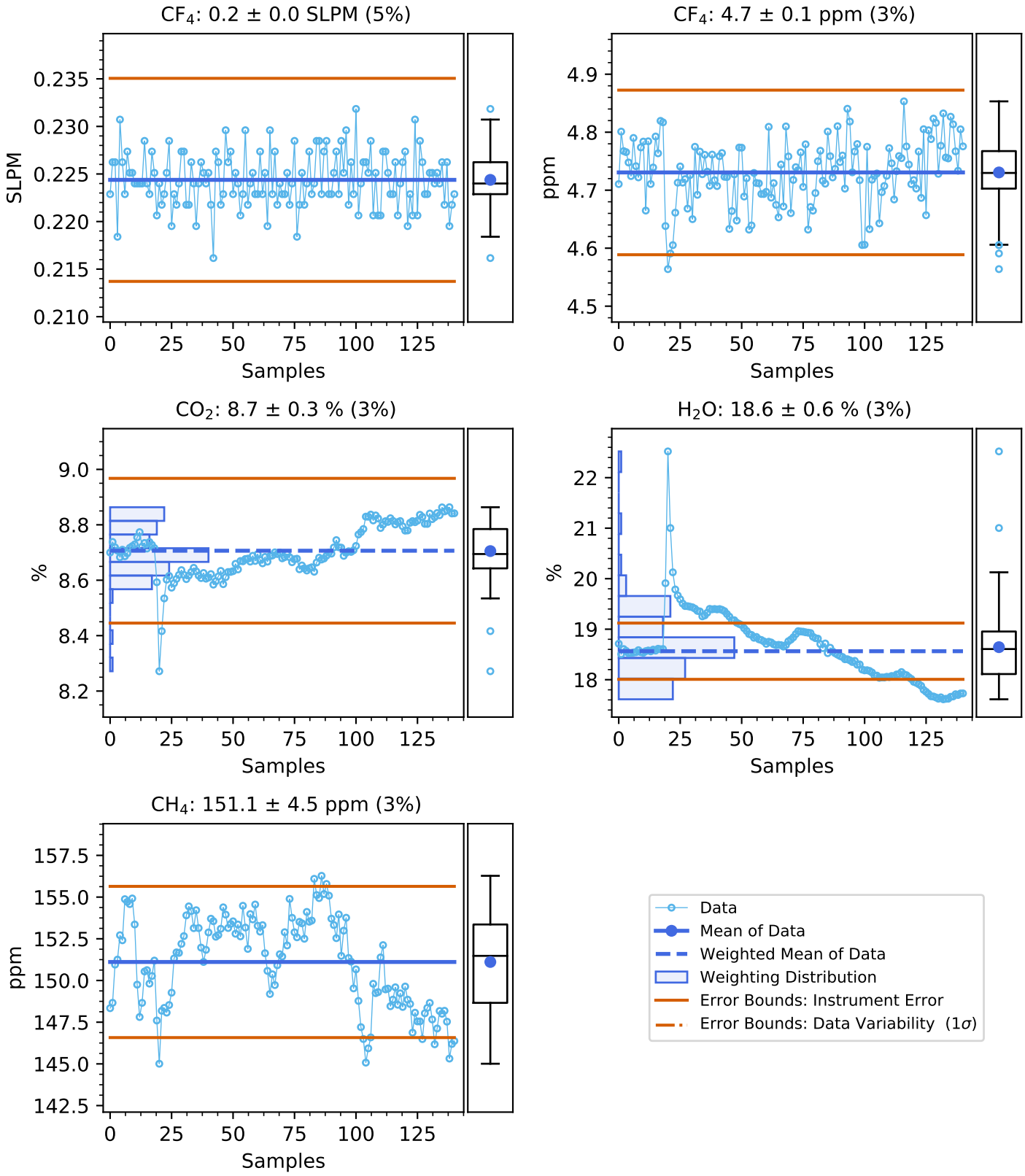
Facility: 1080 Unit: 1 Test: 1



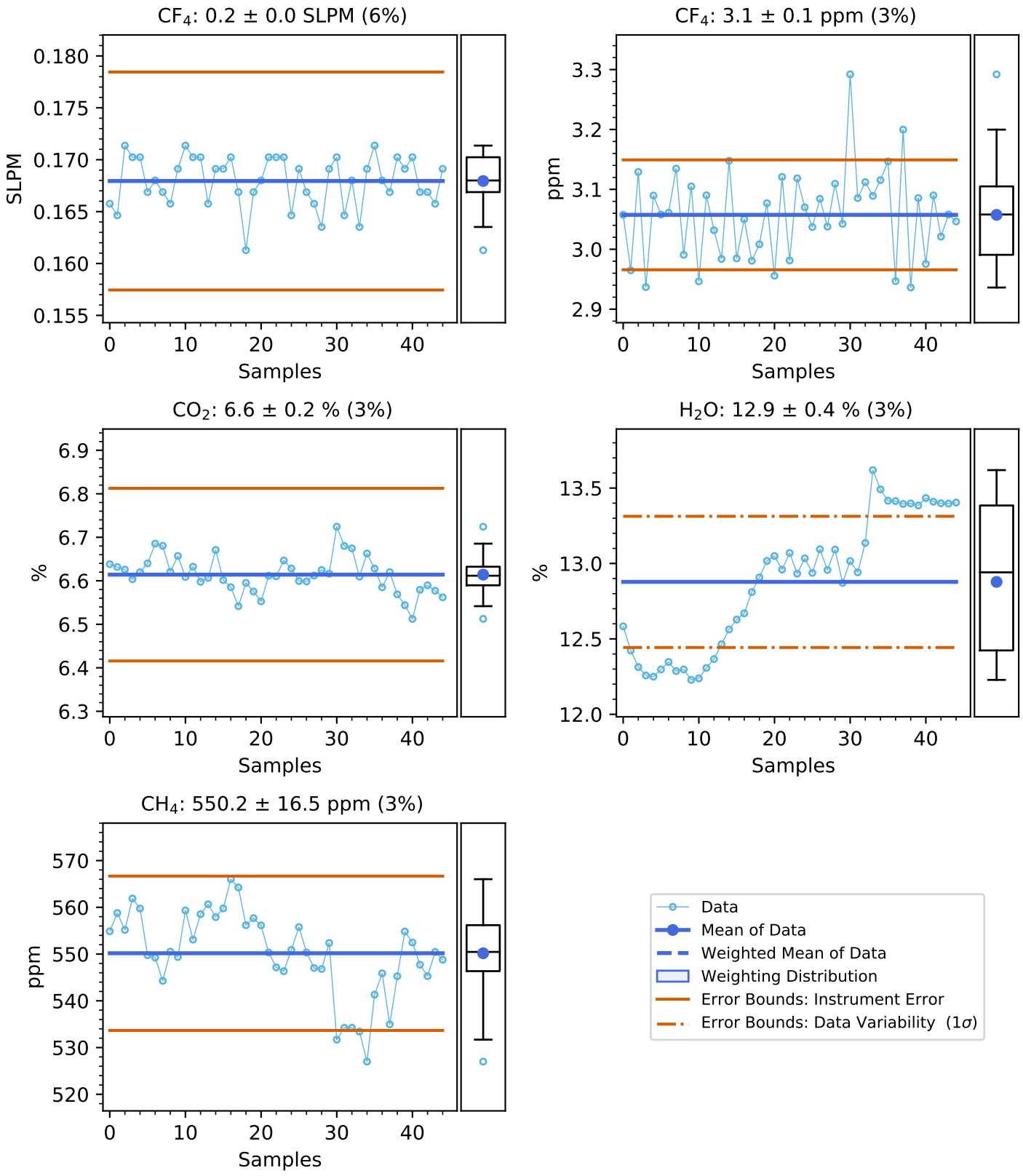
Facility: 1080 Unit: 1 Test: 2



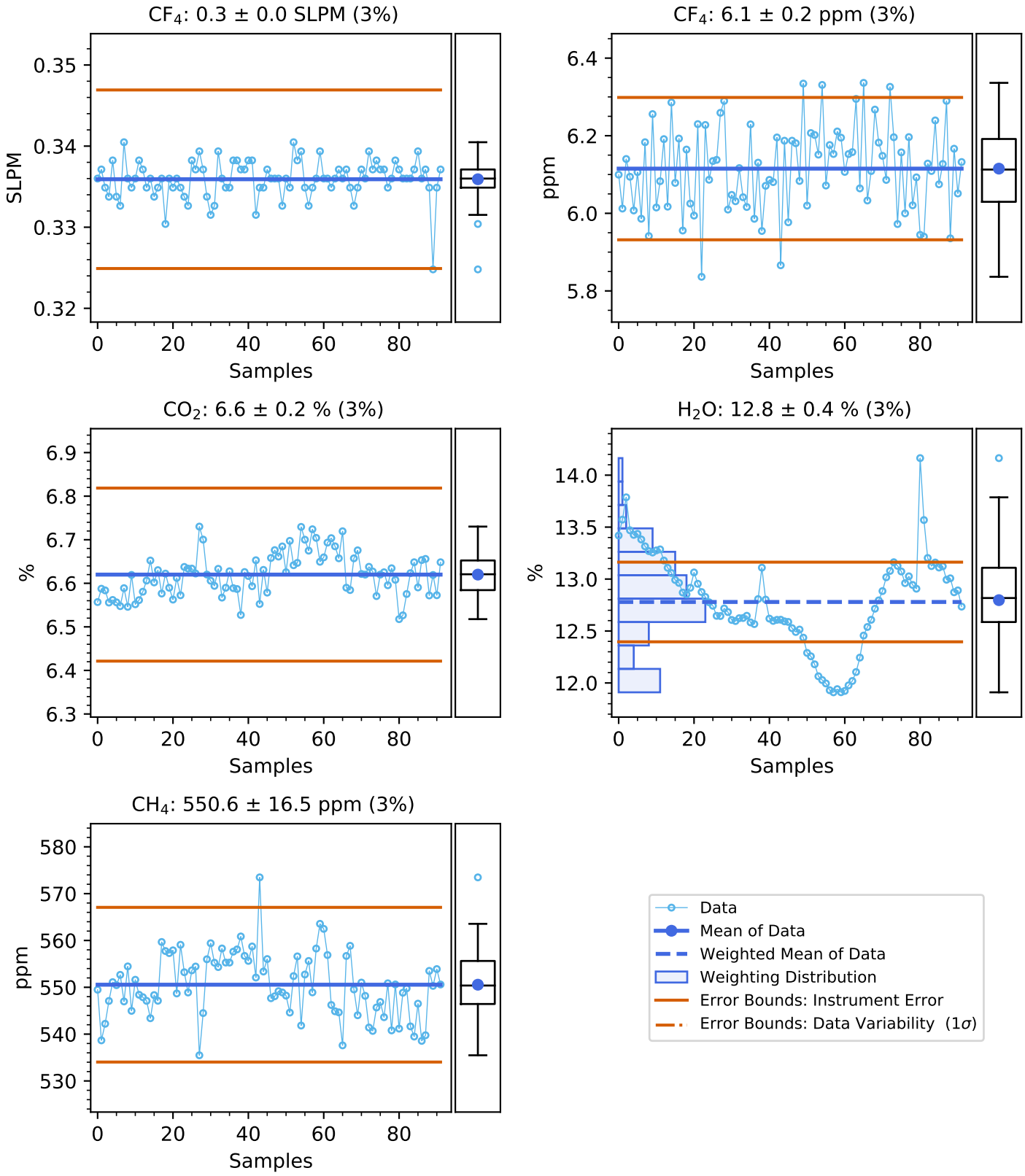
Facility: 1080 Unit: 1 Test: 3



Facility: 2552 Unit: 2 Test: 1



Facility: 2552 Unit: 2 Test: 2



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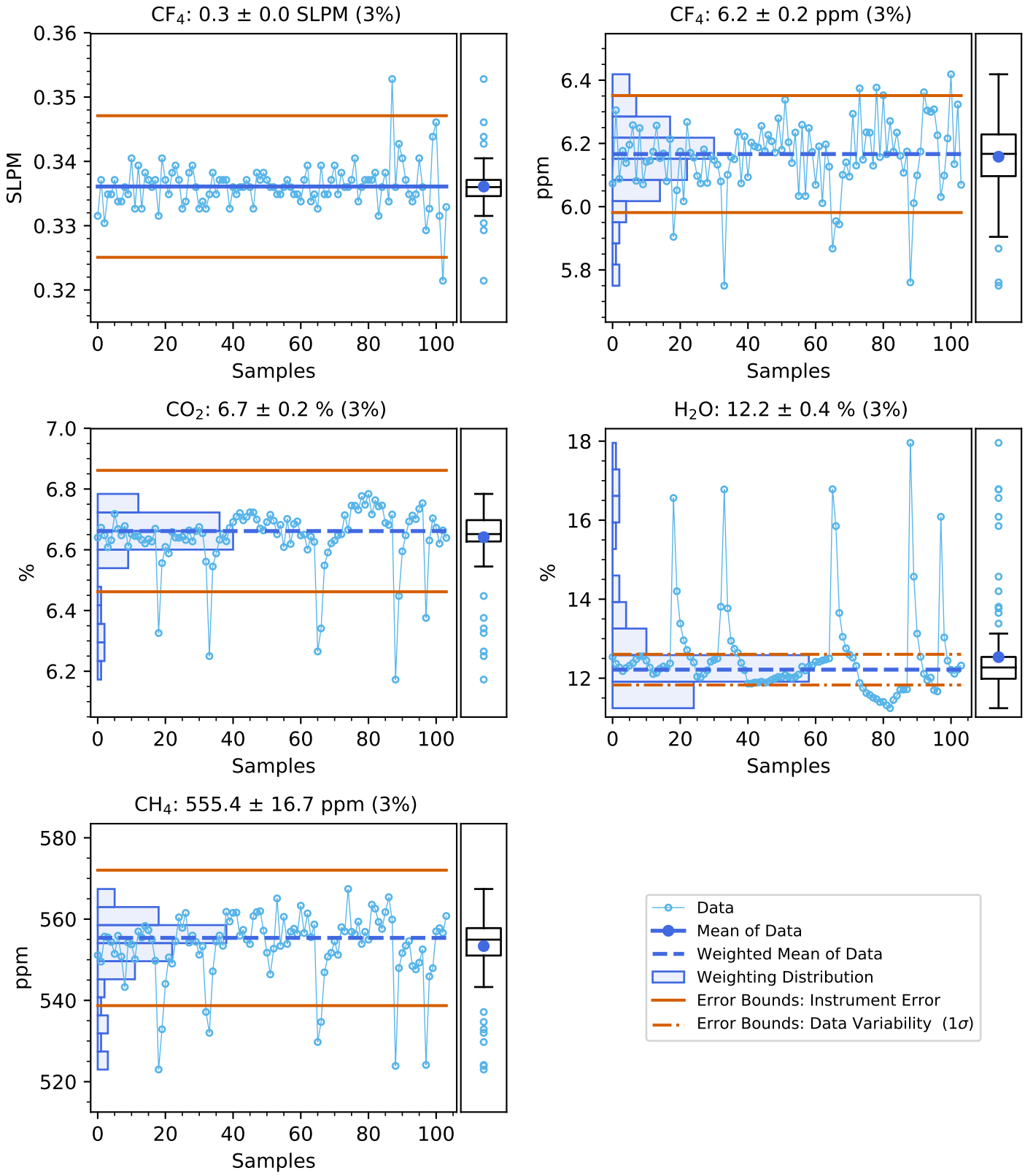
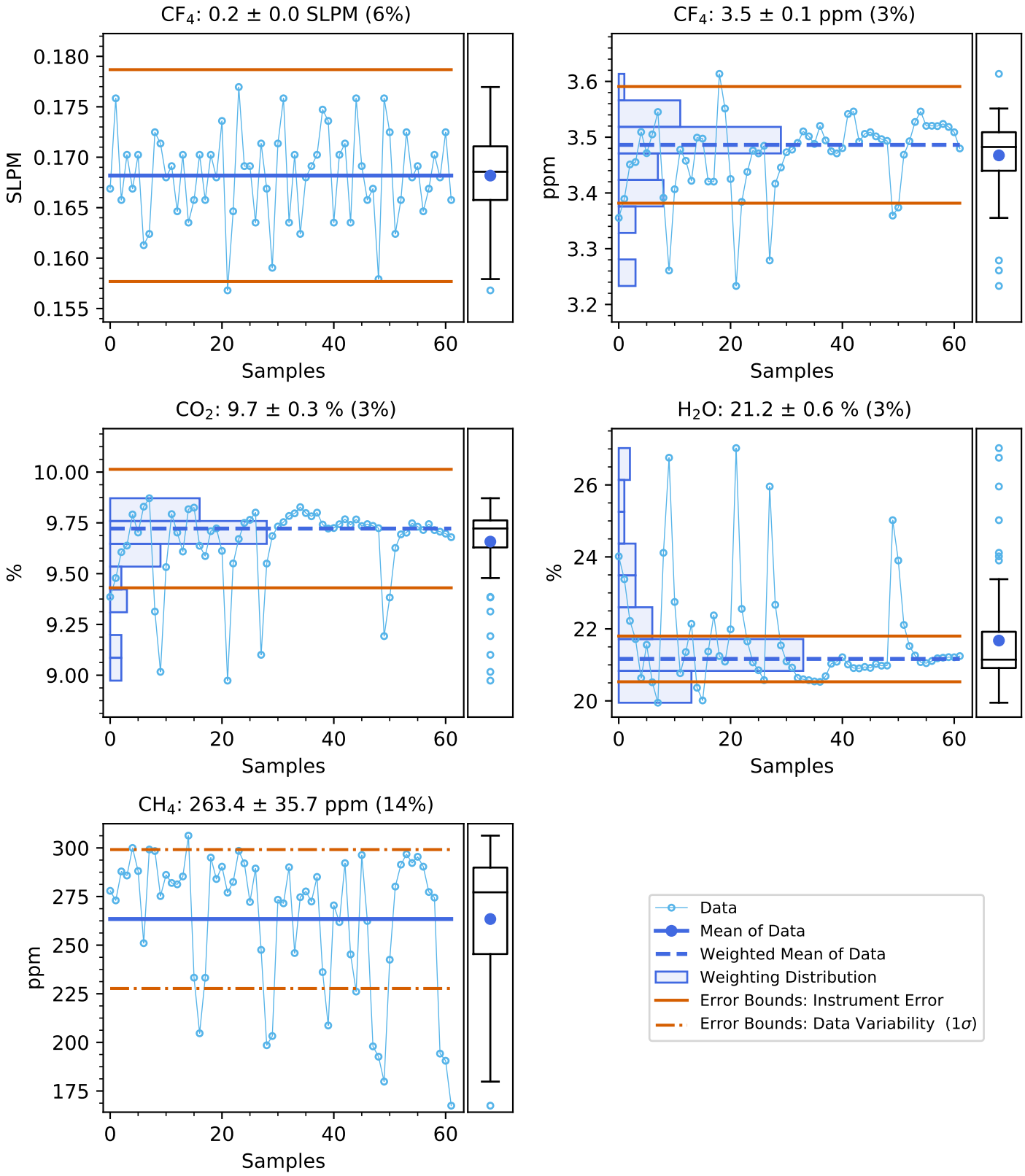
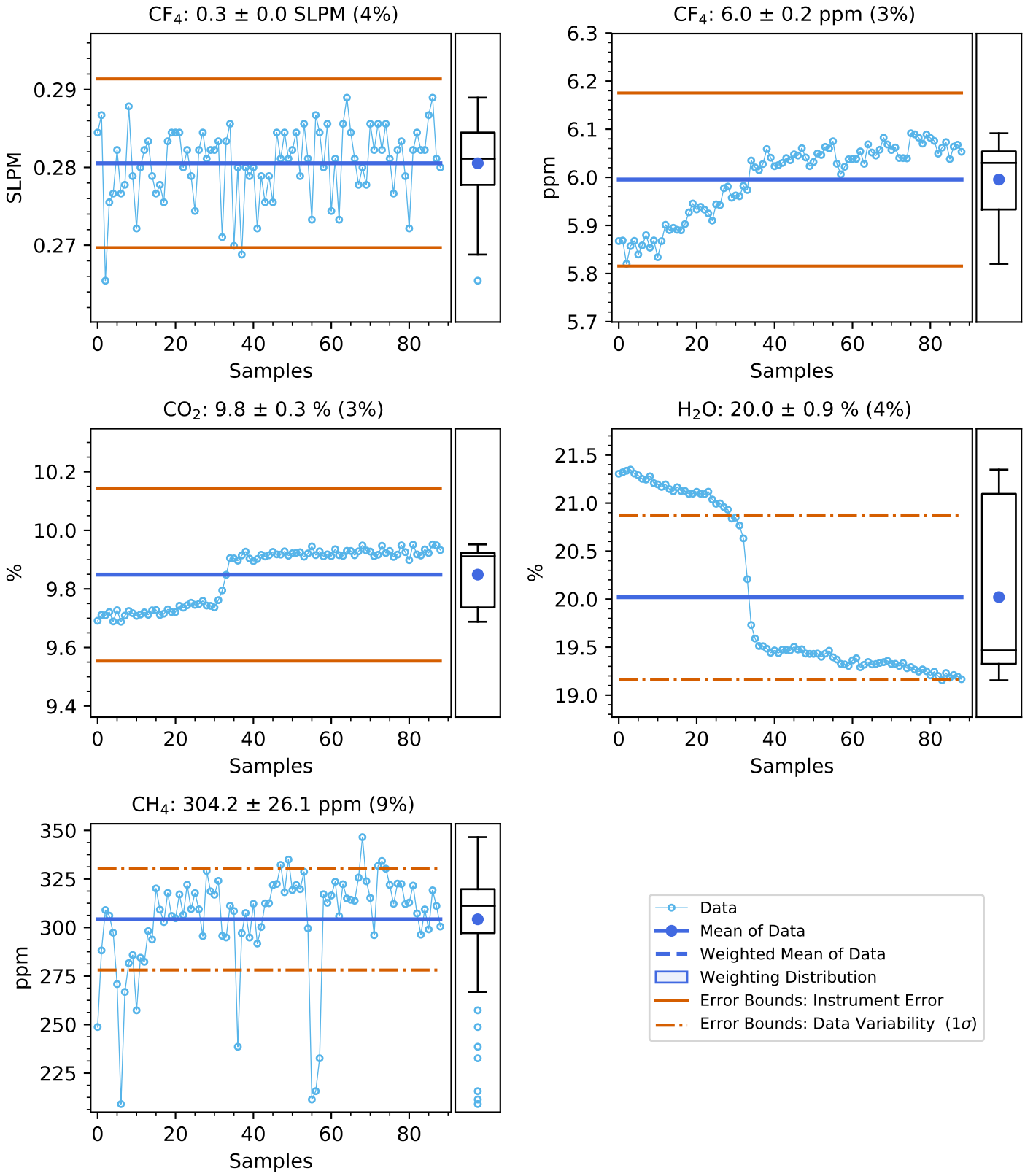


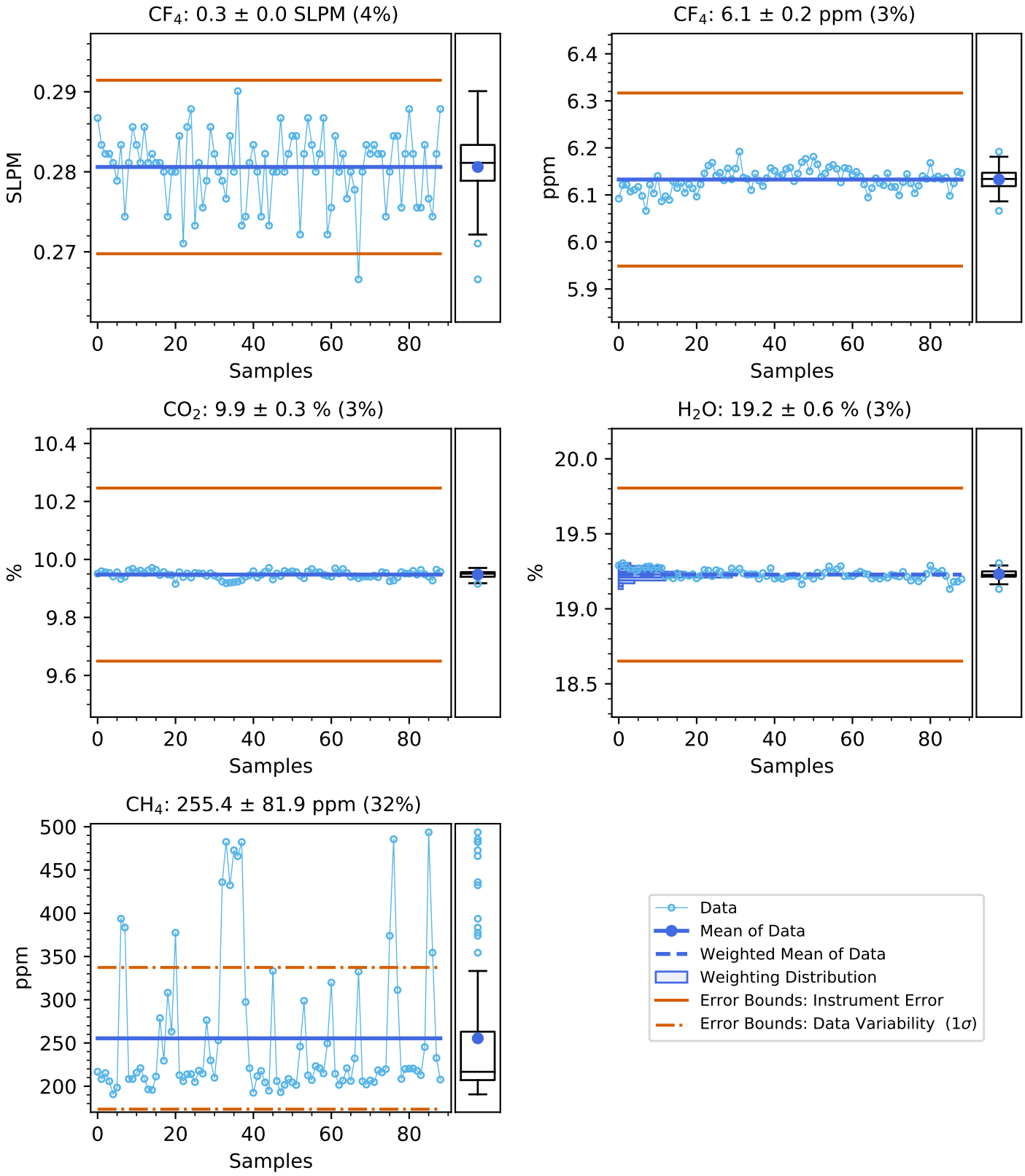
Facility: 206 Unit: 1 Test: 1



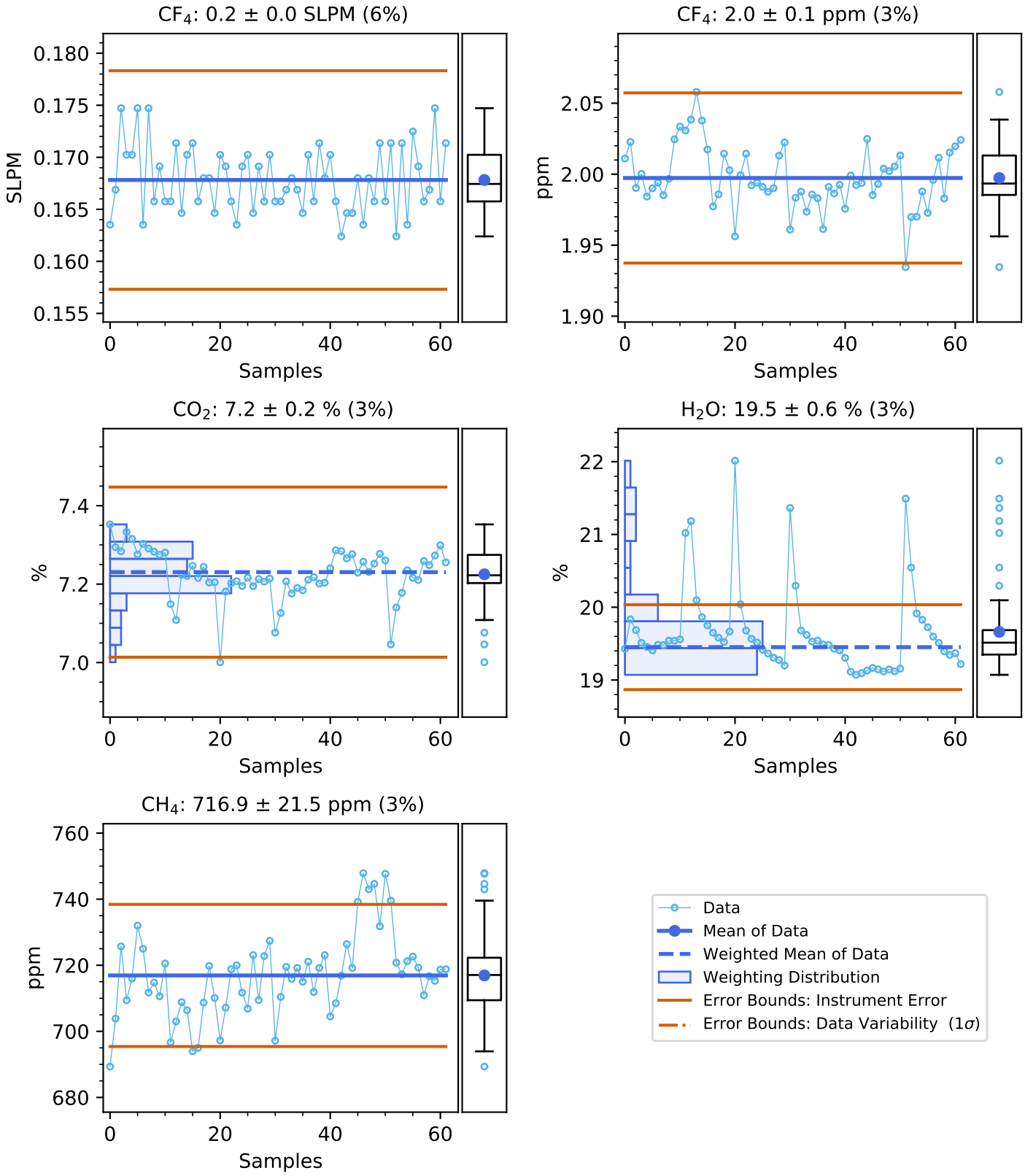
Facility: 206 Unit: 1 Test: 2



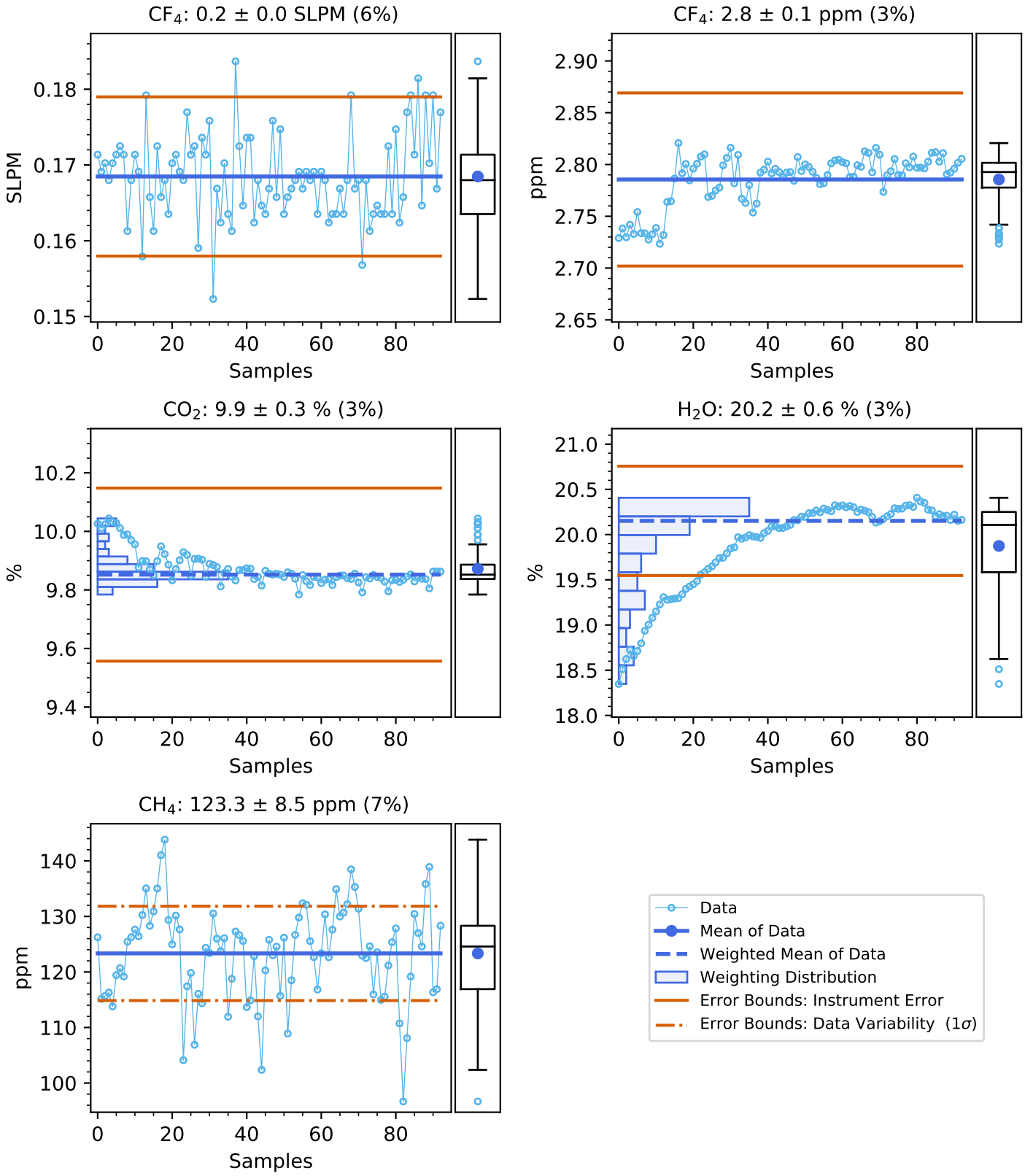
Facility: 206 Unit: 1 Test: 3



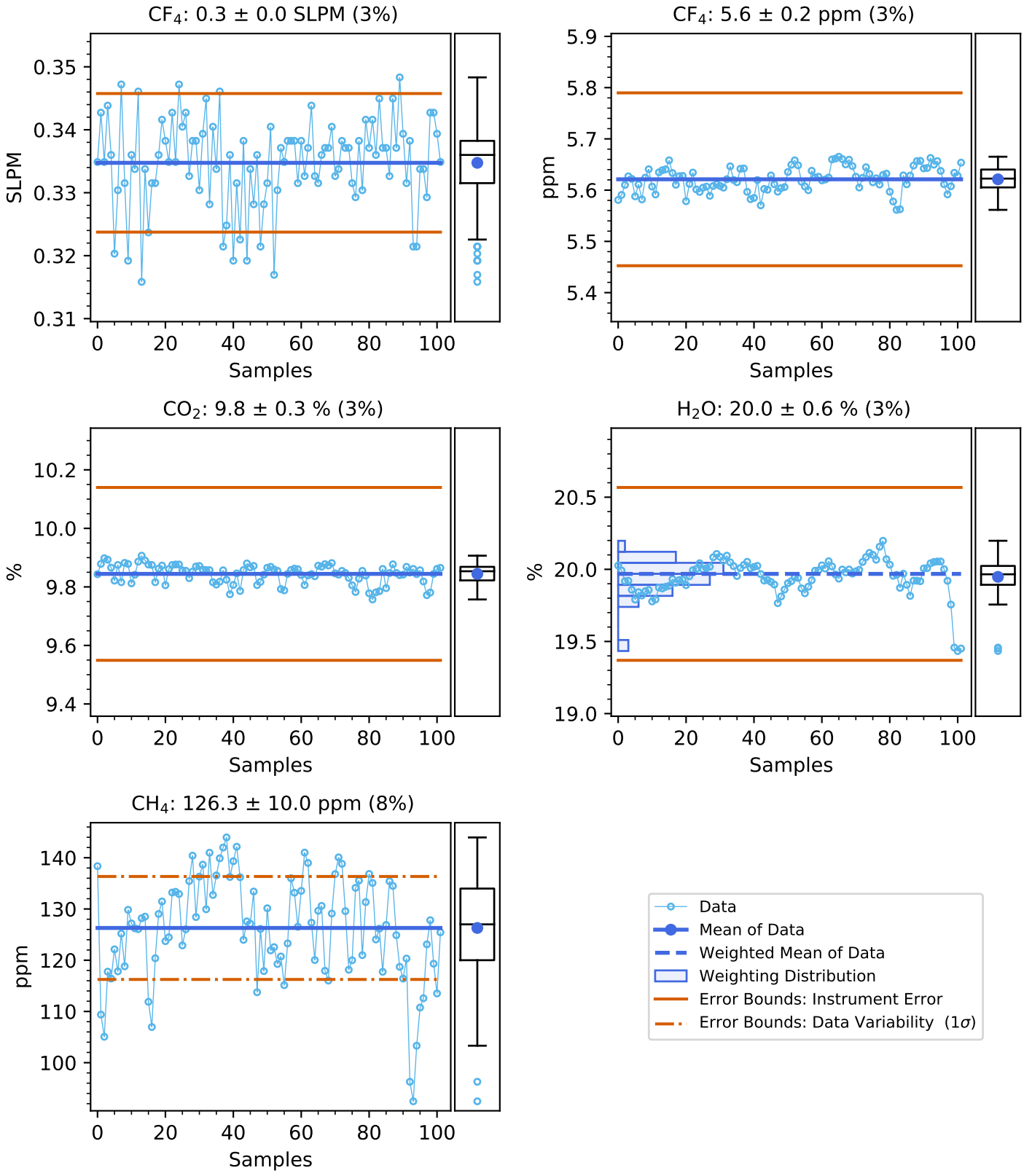
Facility: 206 Unit: 2 Test: 1



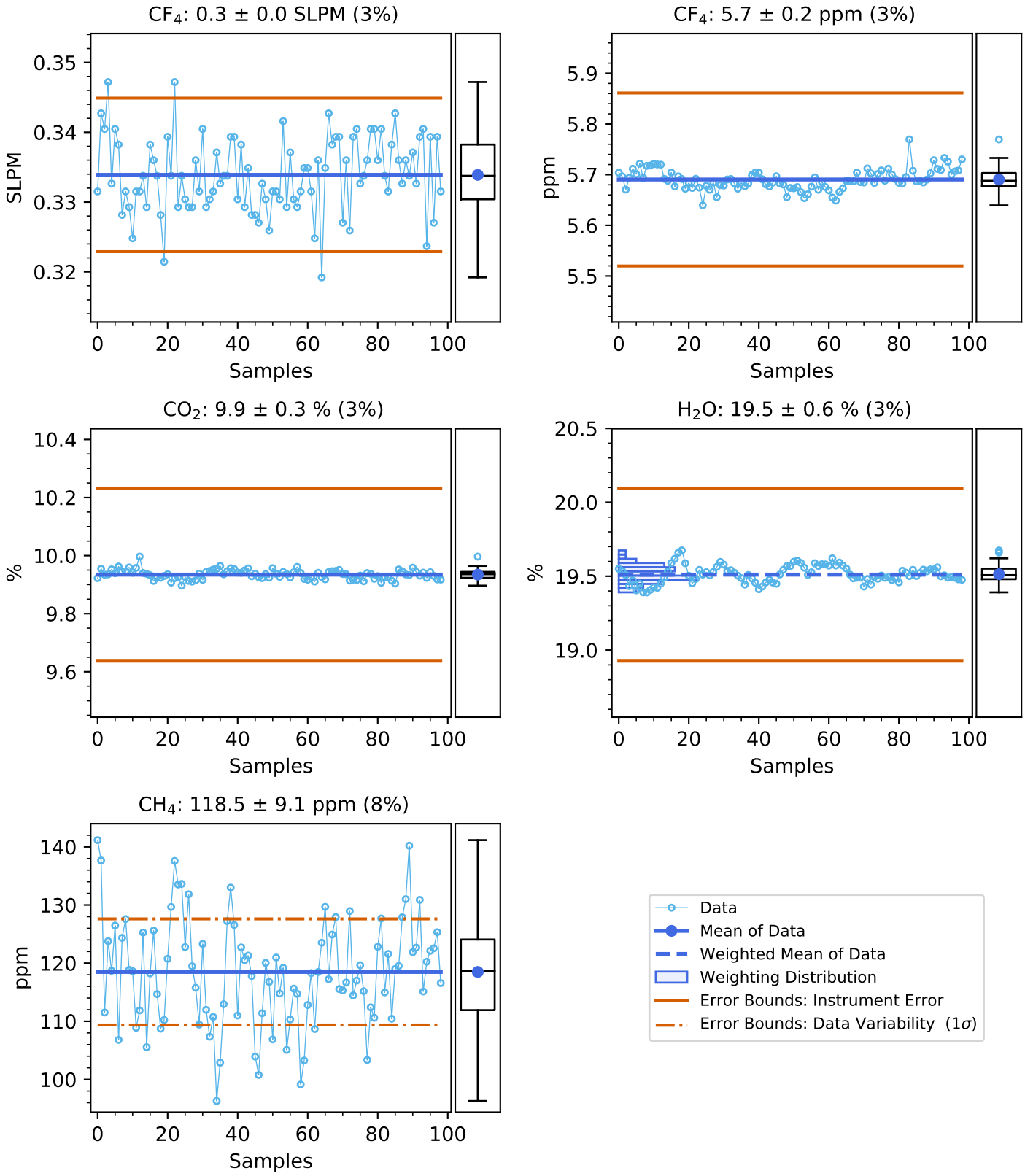
Facility: 206 Unit: 3 Test: 1



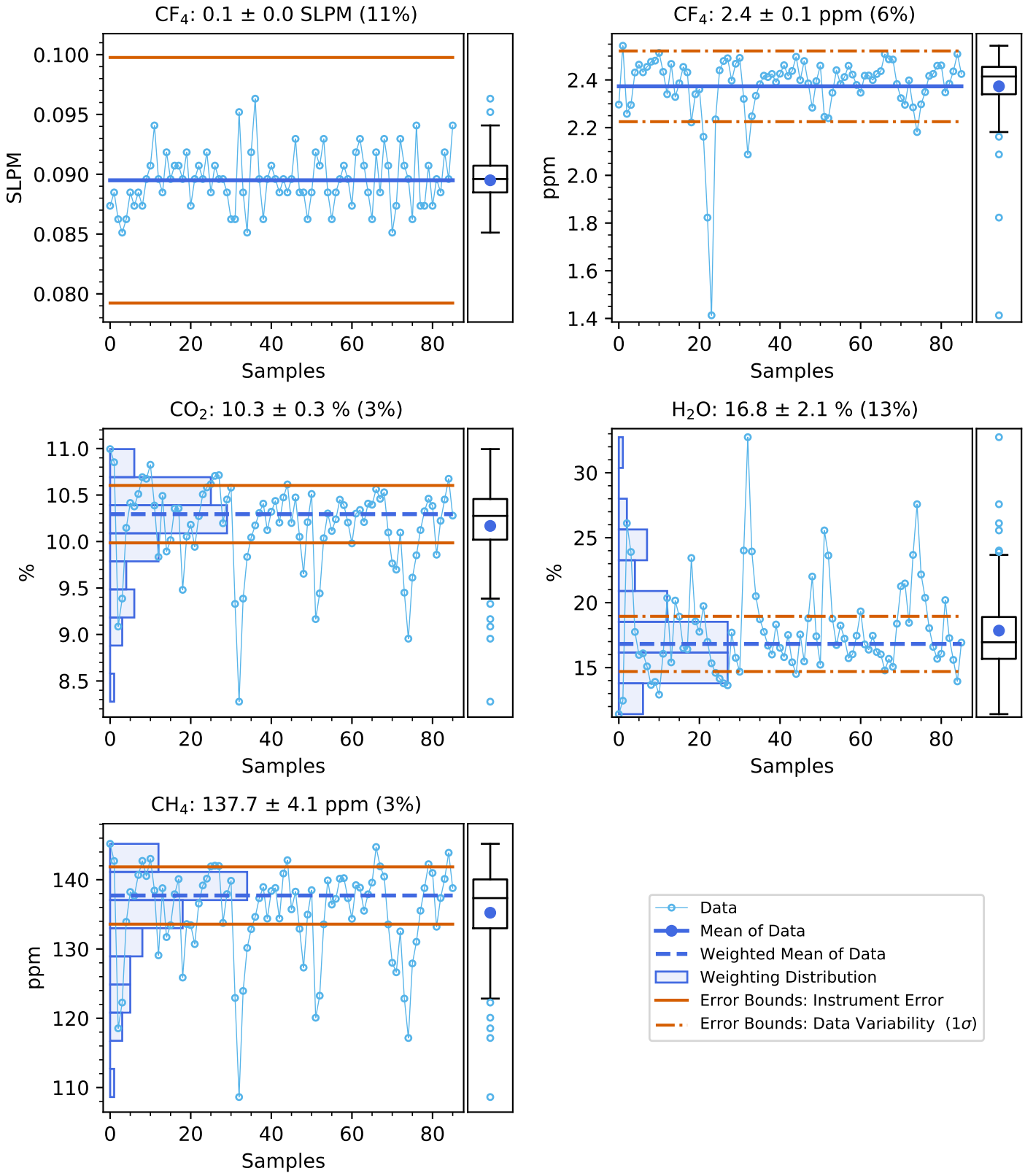
Facility: 206 Unit: 3 Test: 2



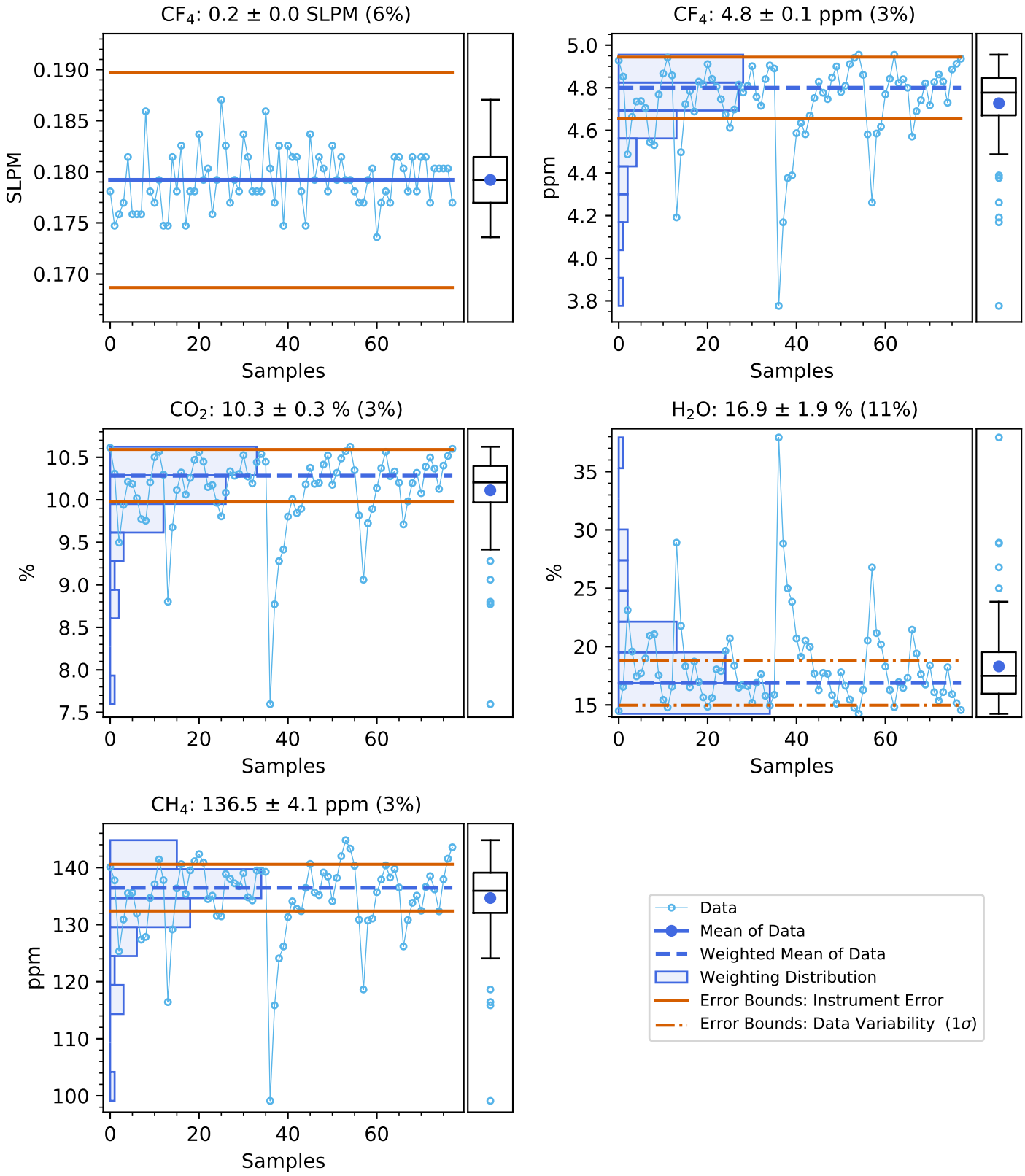
Facility: 206 Unit: 3 Test: 3



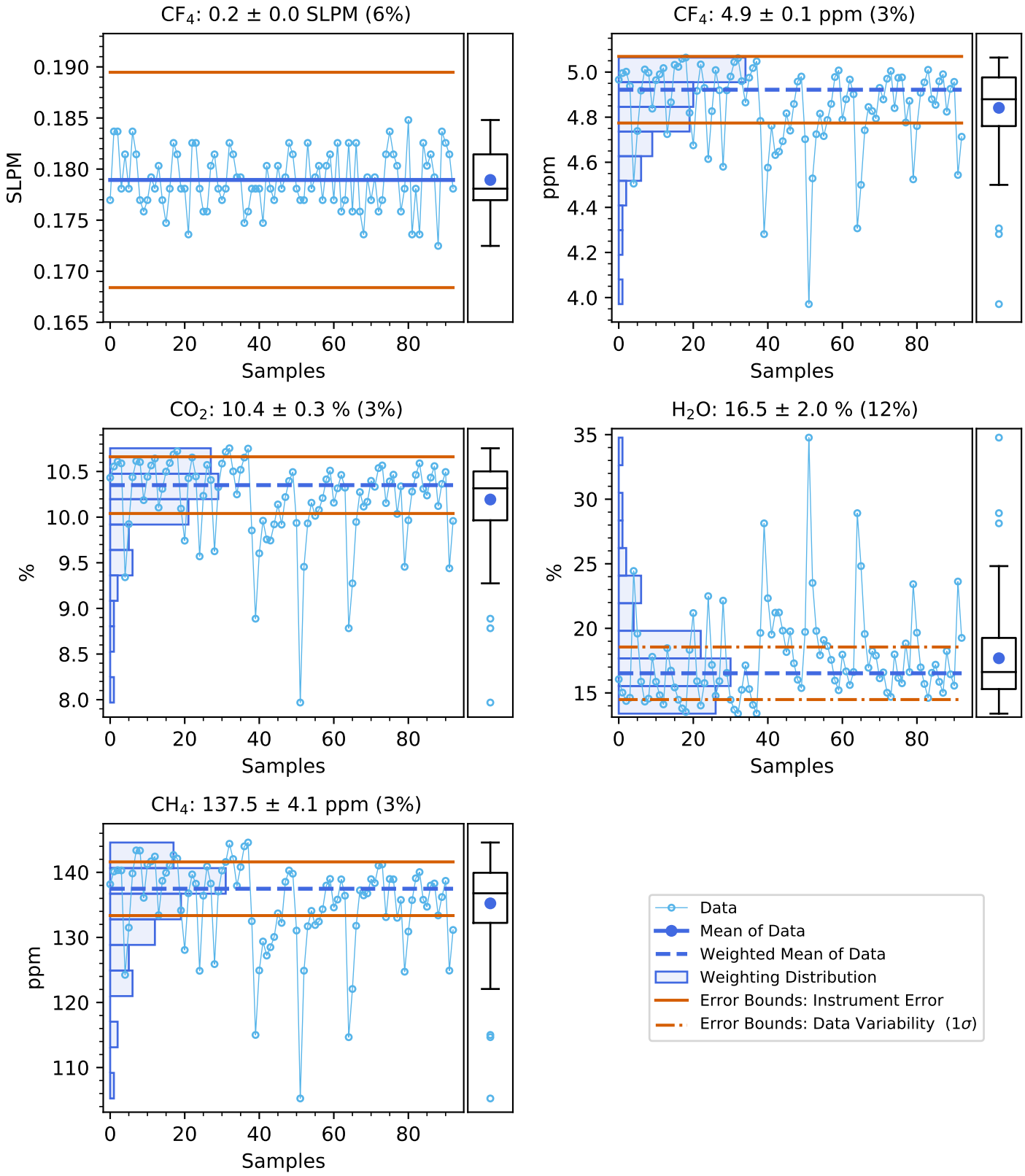
Facility: 1633 Unit: 1 Test: 1



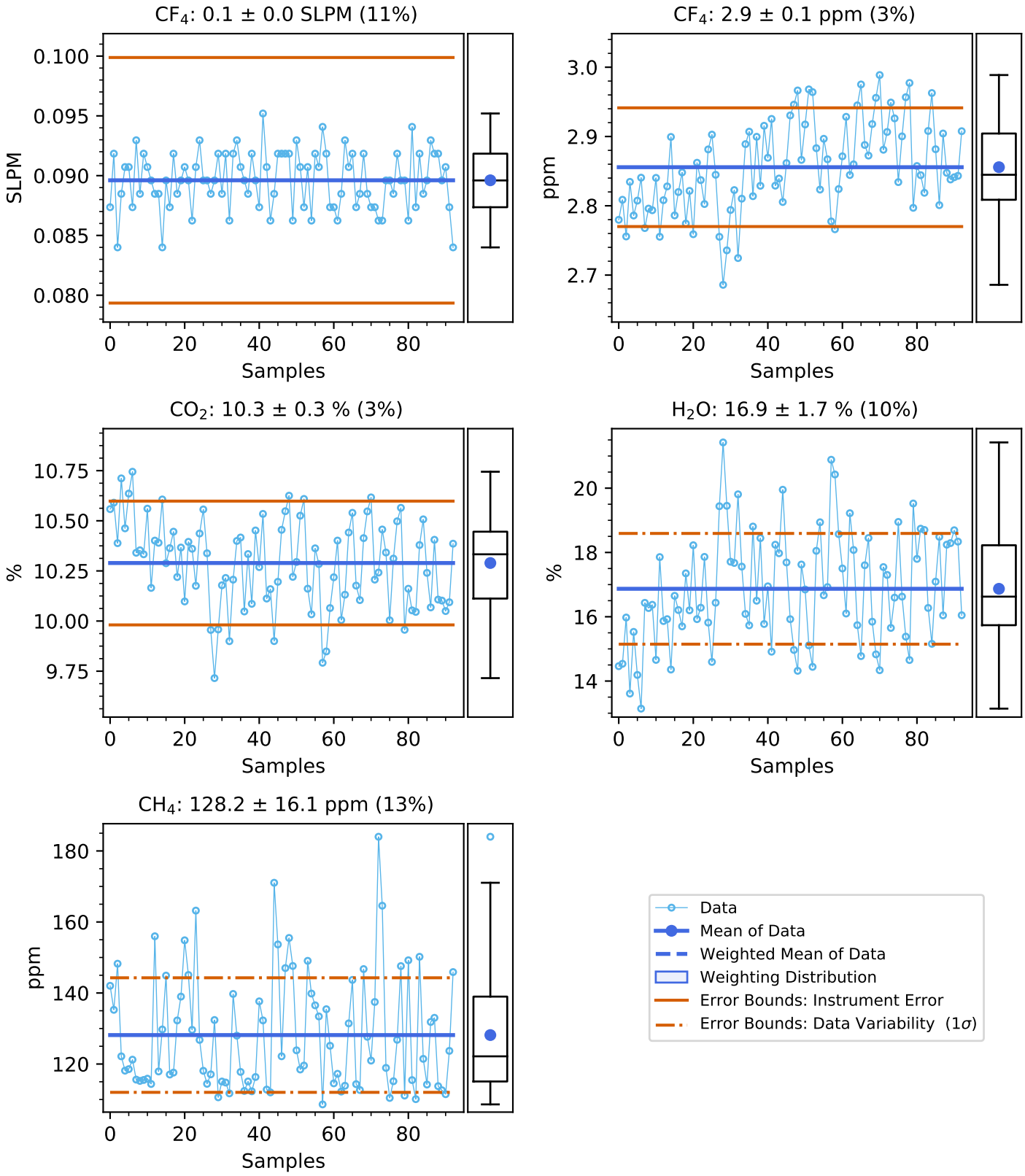
Facility: 1633 Unit: 1 Test: 2



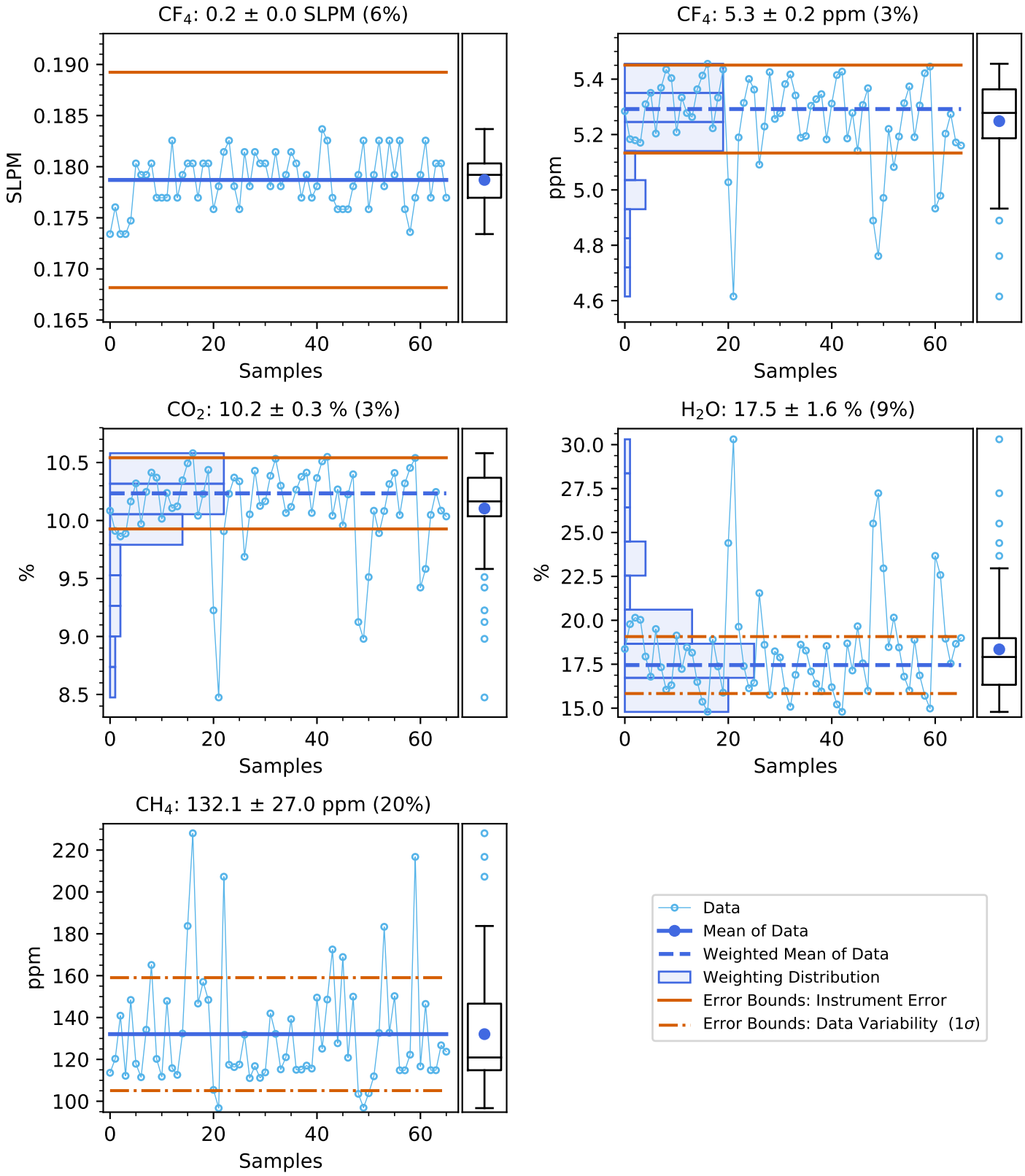
Facility: 1633 Unit: 1 Test: 3



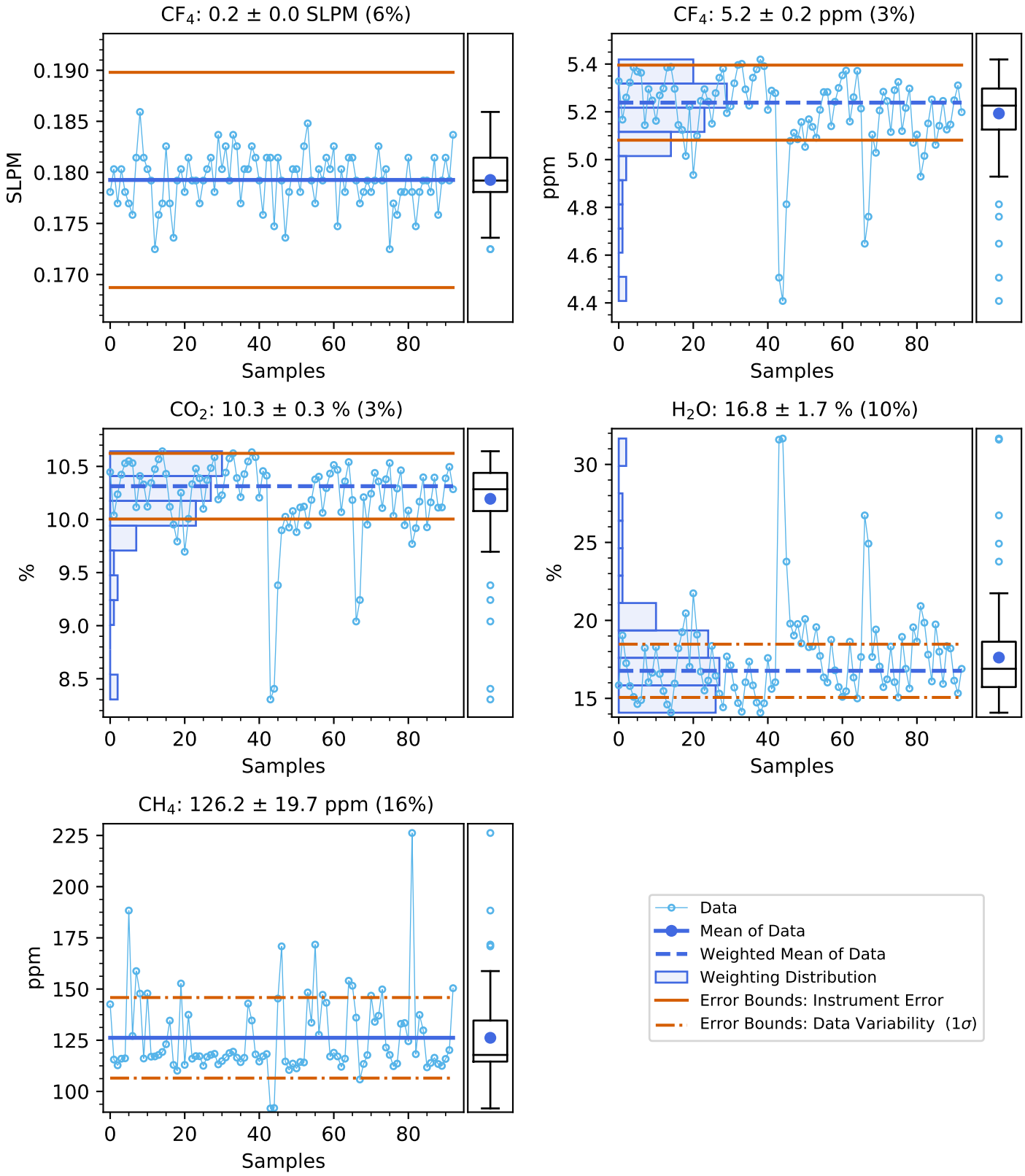
Facility: 1633 Unit: 2 Test: 1



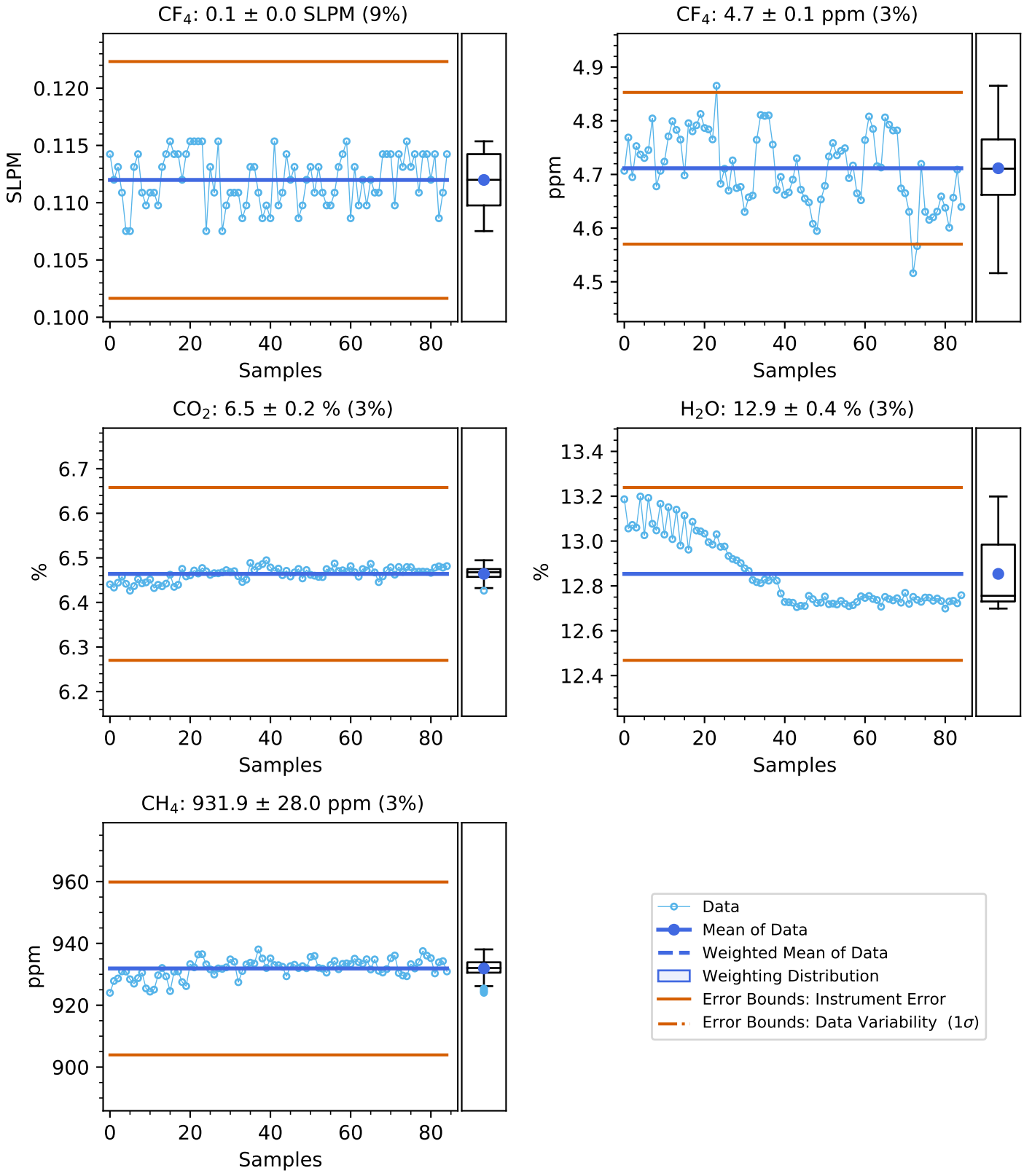
Facility: 1633 Unit: 2 Test: 2



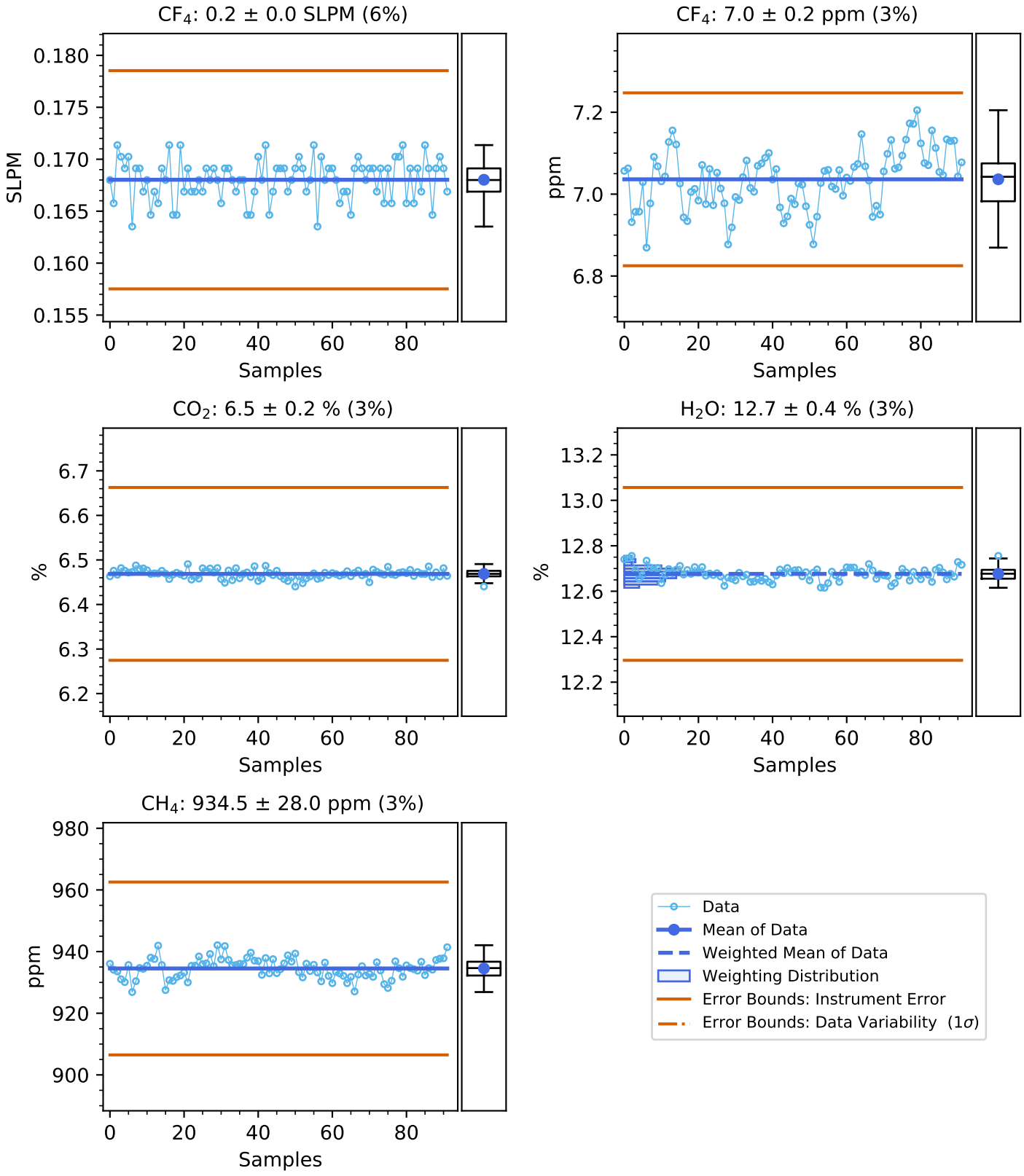
Facility: 1633 Unit: 2 Test: 3



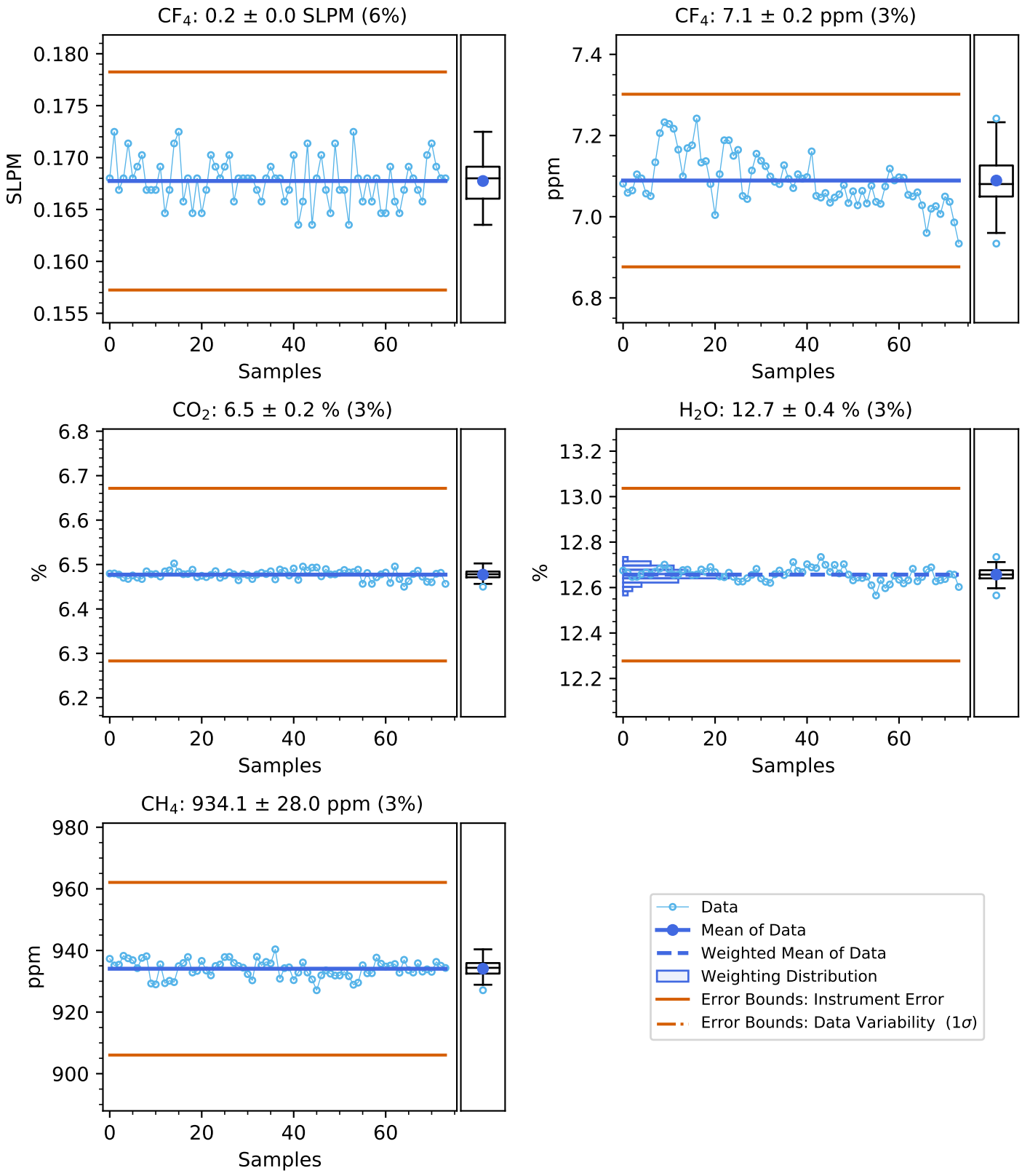
Facility: 360 Unit: 1 Test: 1



Facility: 360 Unit: 1 Test: 2



Facility: 360 Unit: 1 Test: 3



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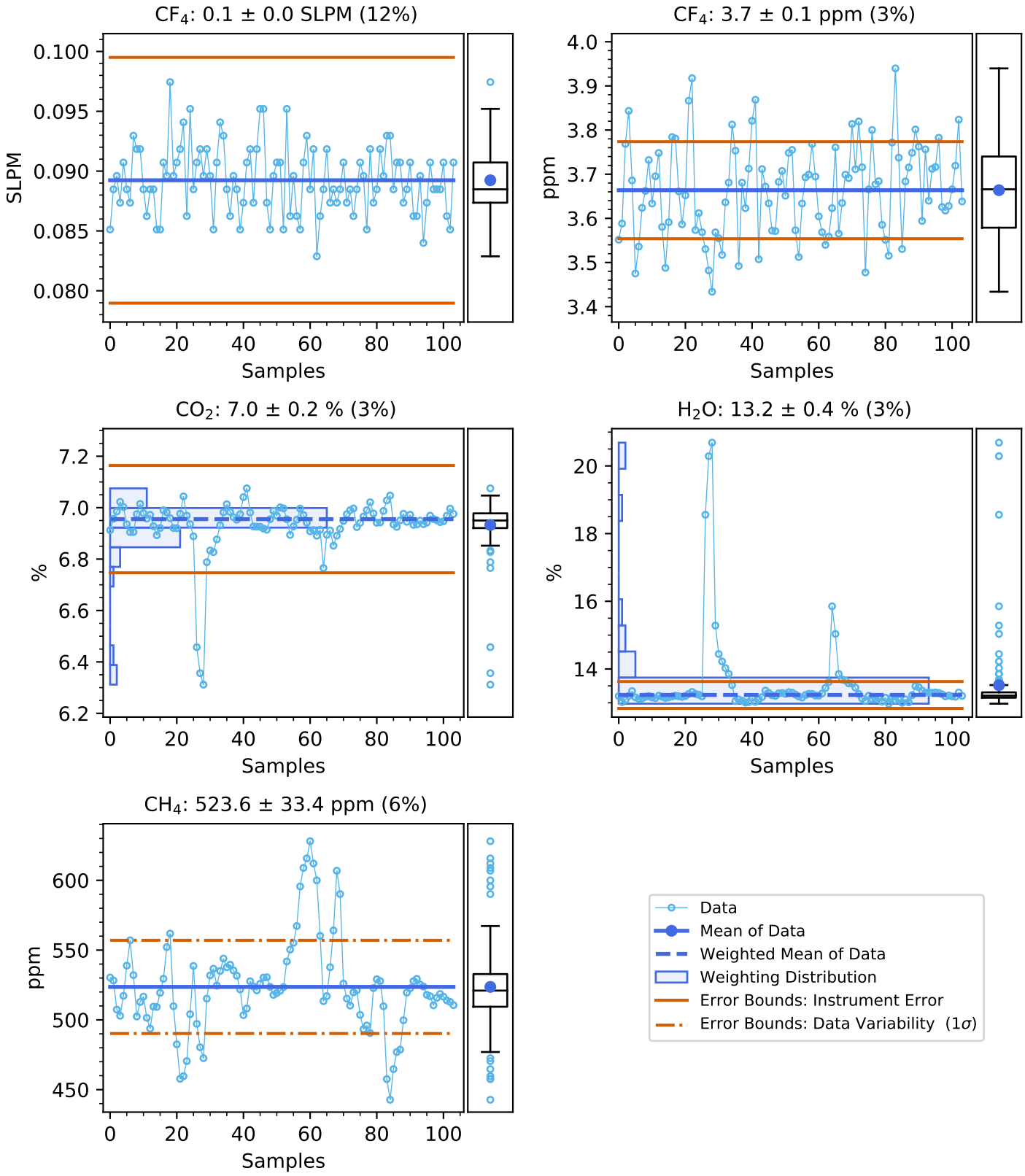

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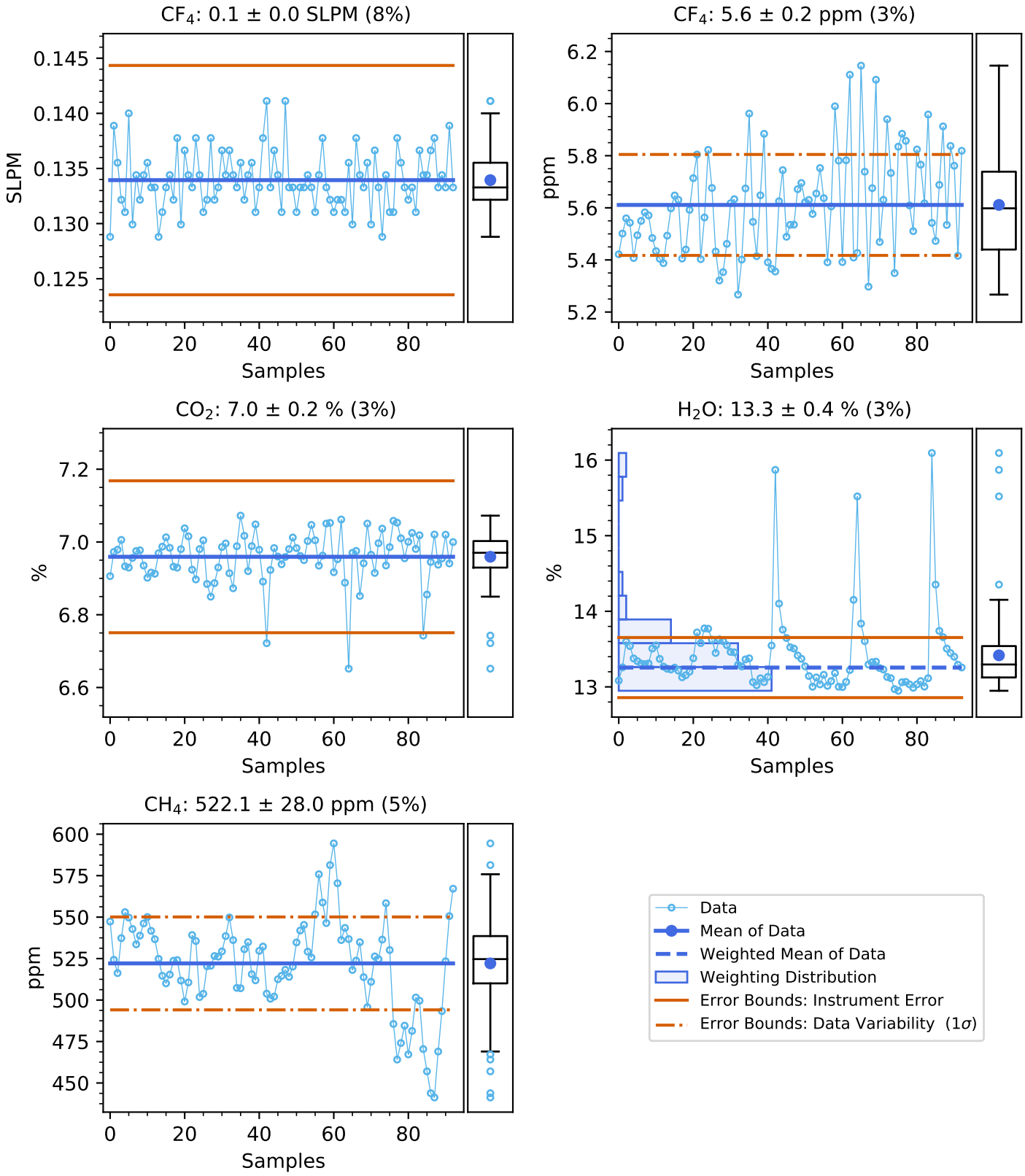
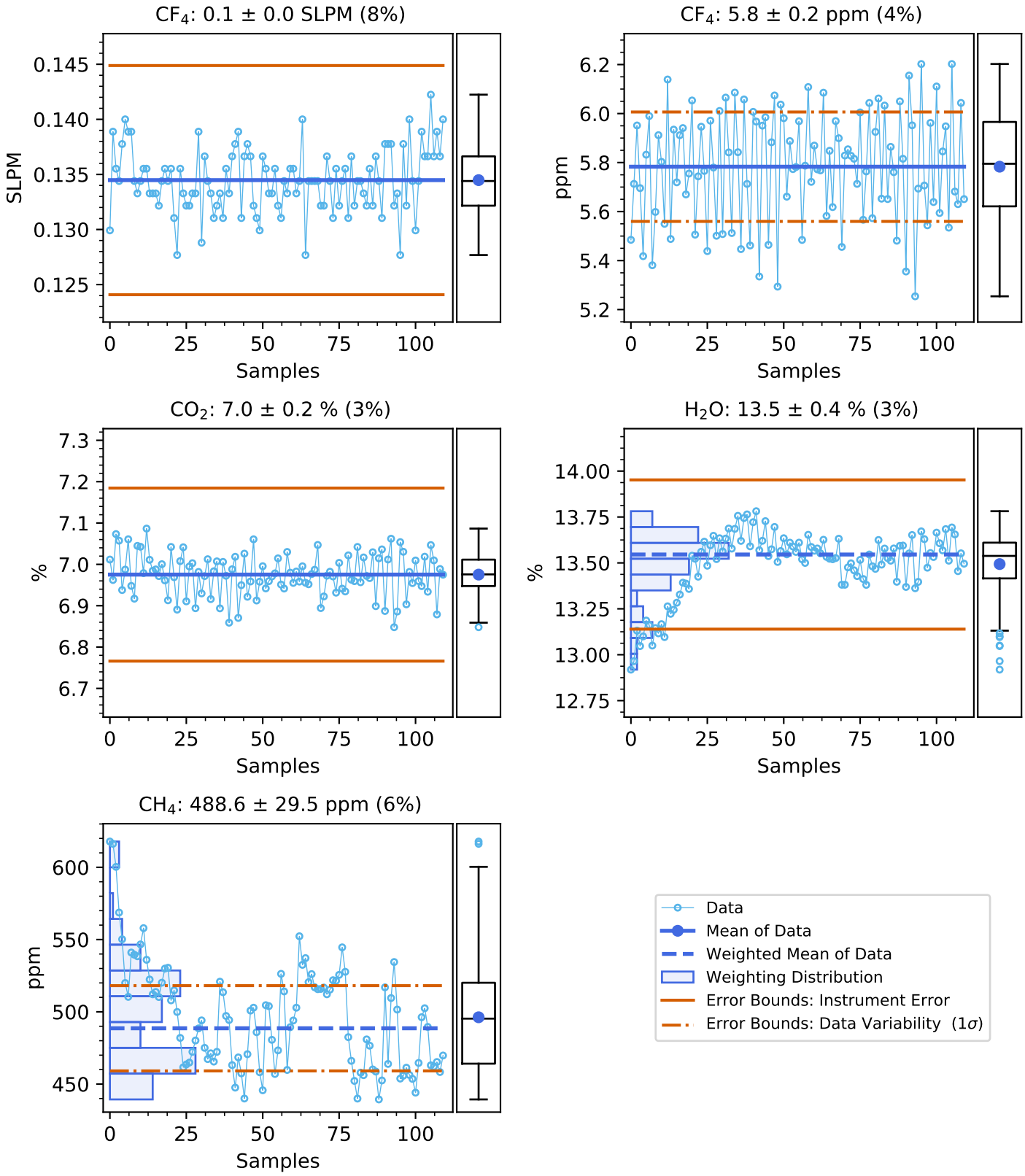
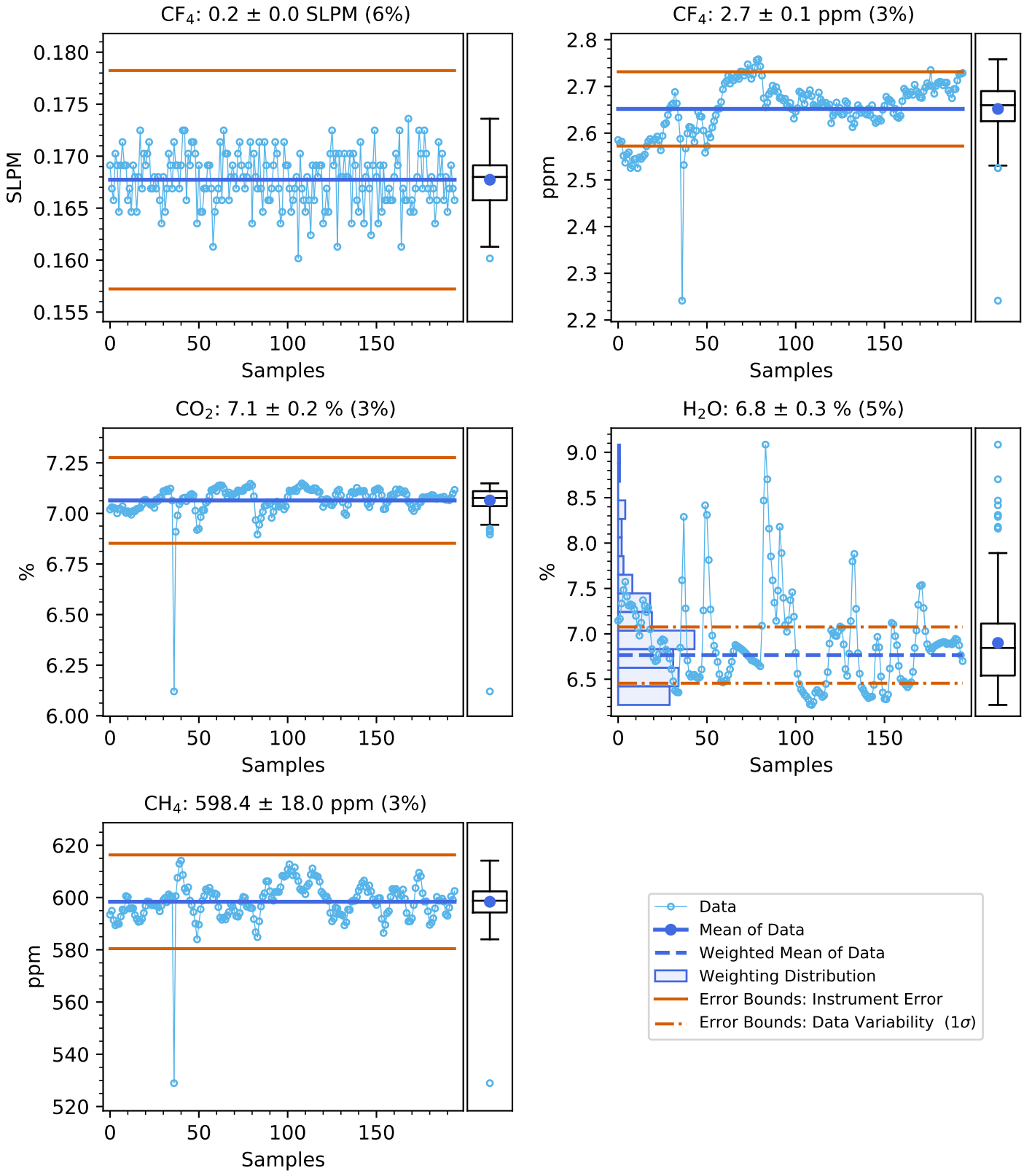


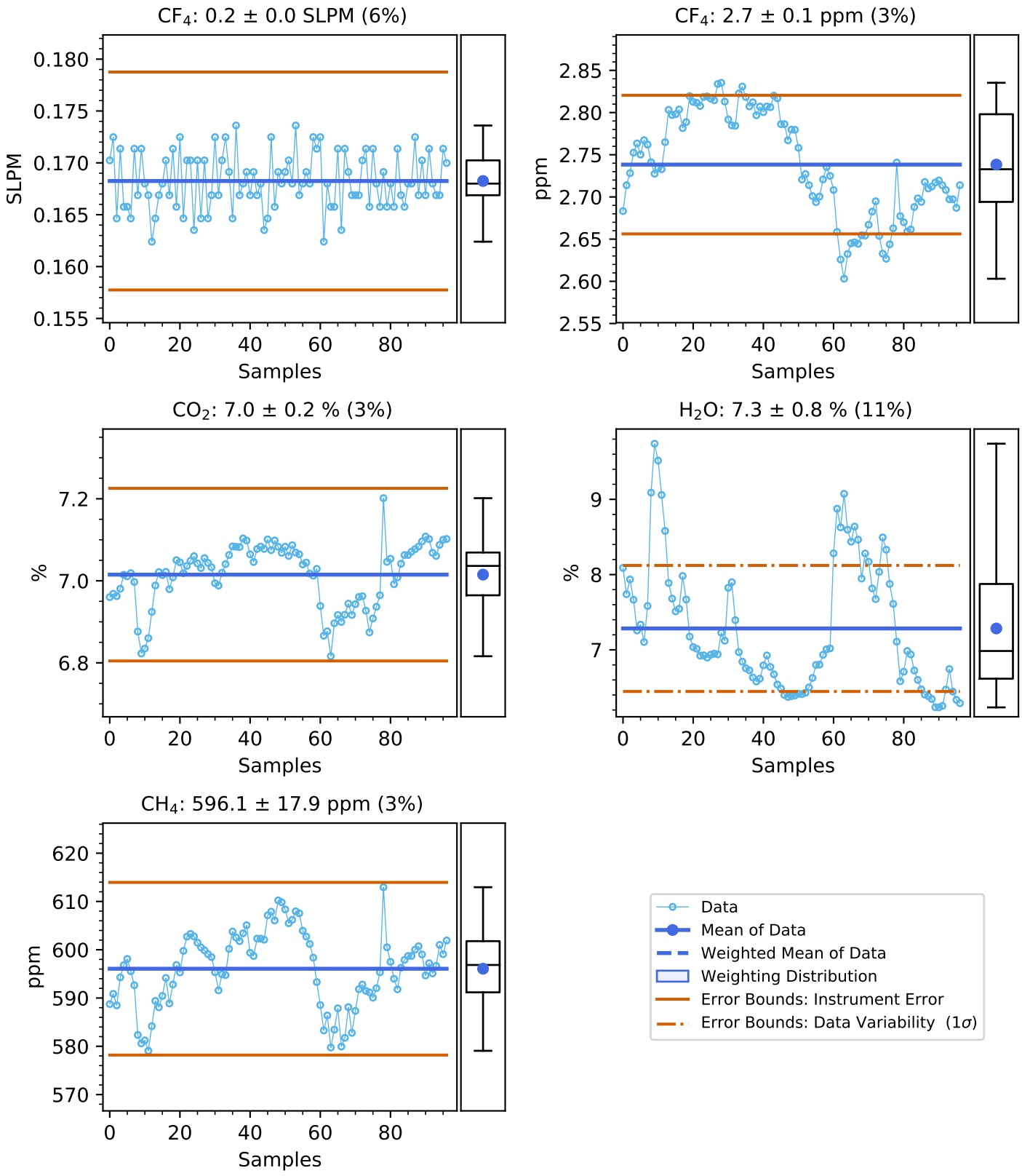
Facility: 360 Unit: 2 Test: 3



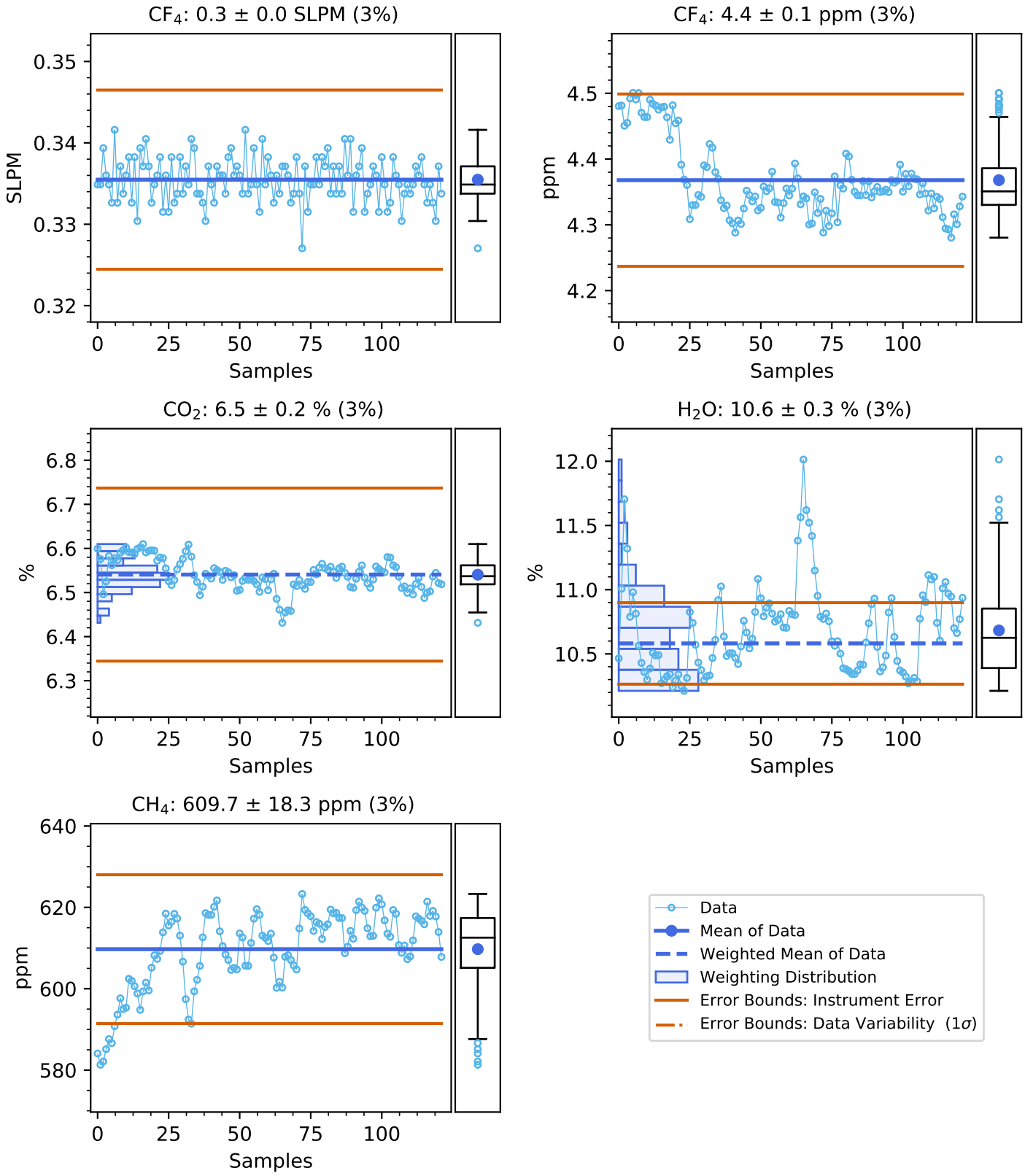
Facility: 509 Unit: 1 Test: 1



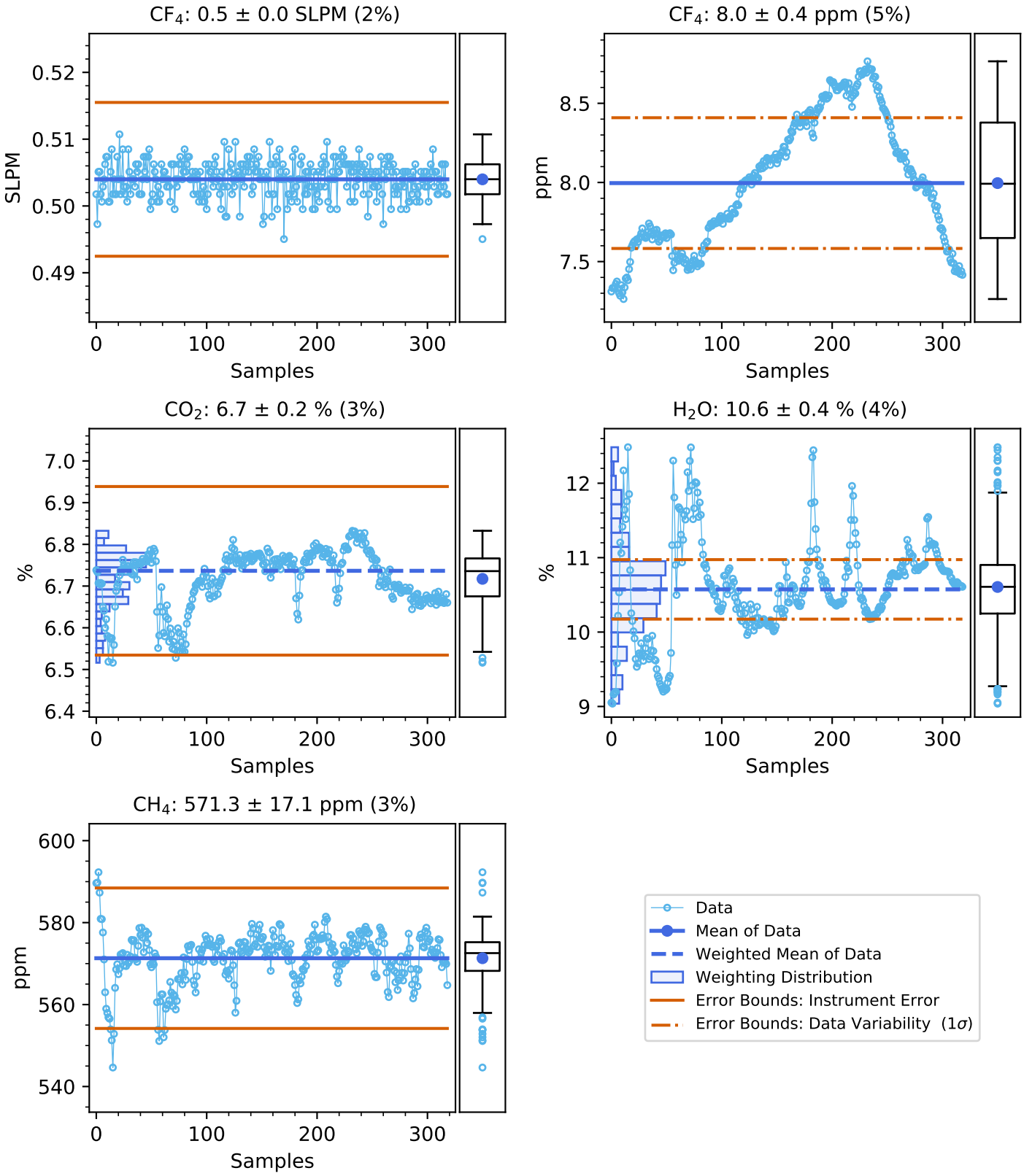
Facility: 509 Unit: 1 Test: 2



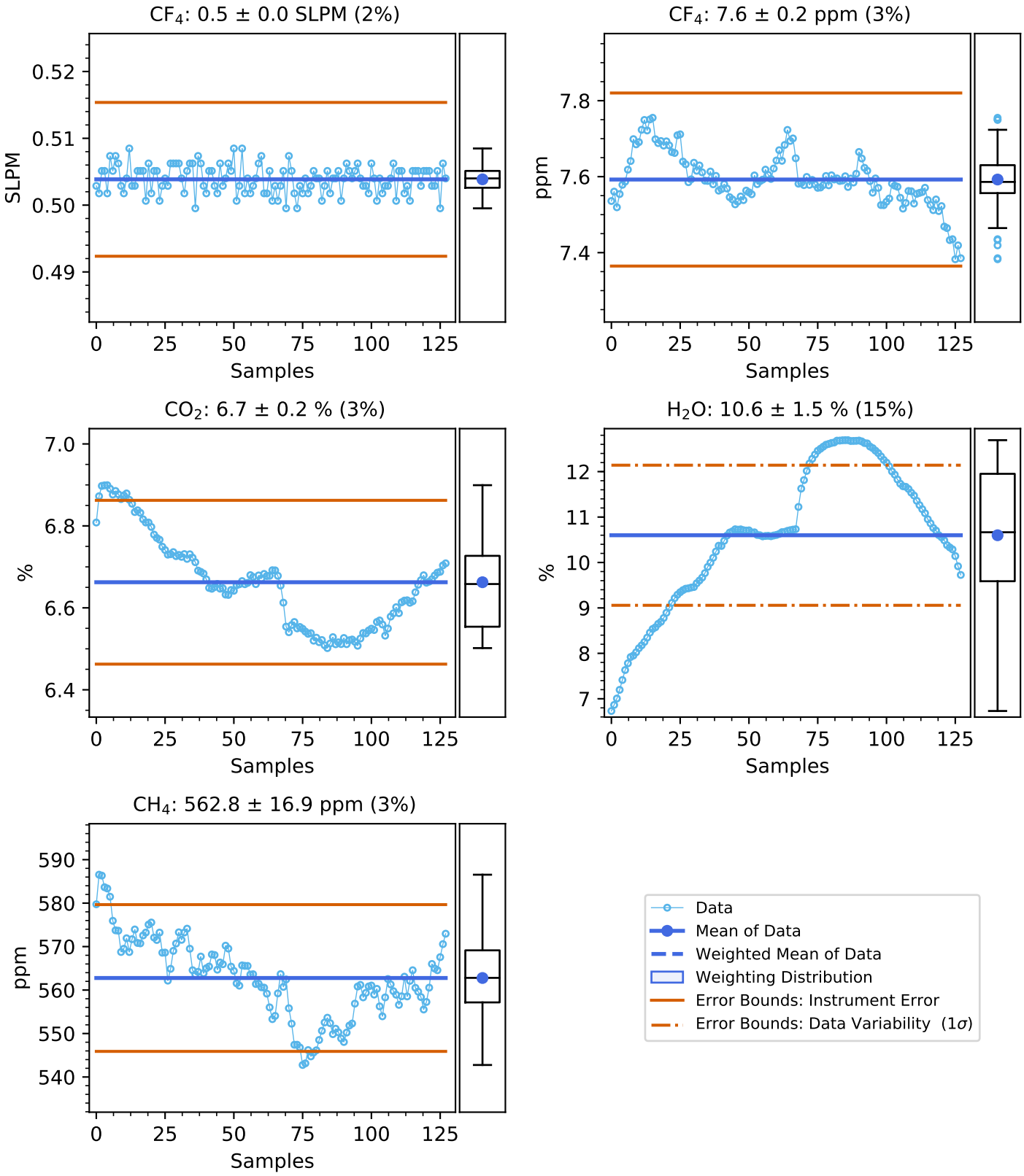
Facility: 509 Unit: 1 Test: 3



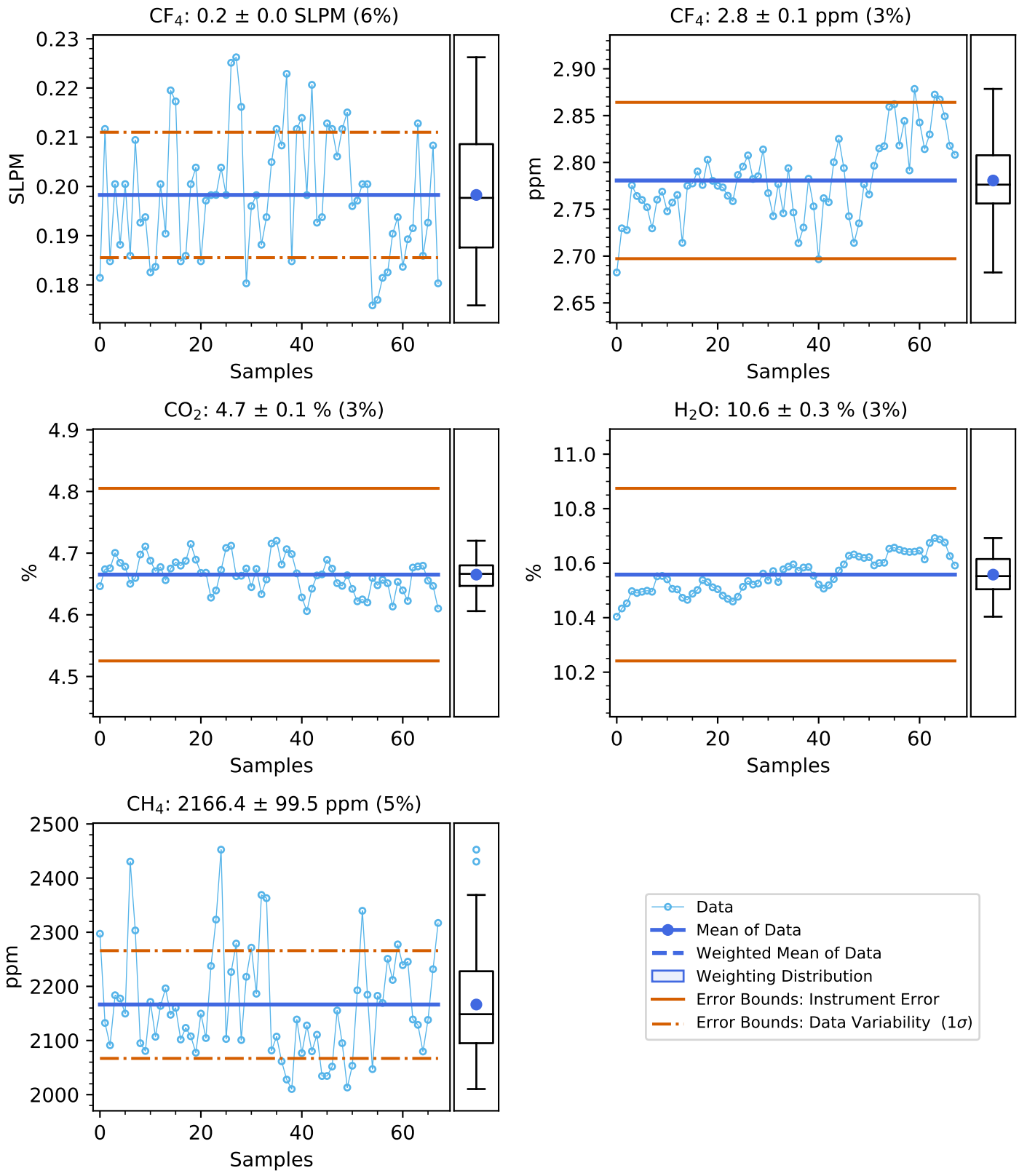
Facility: 509 Unit: 1 Test: 4



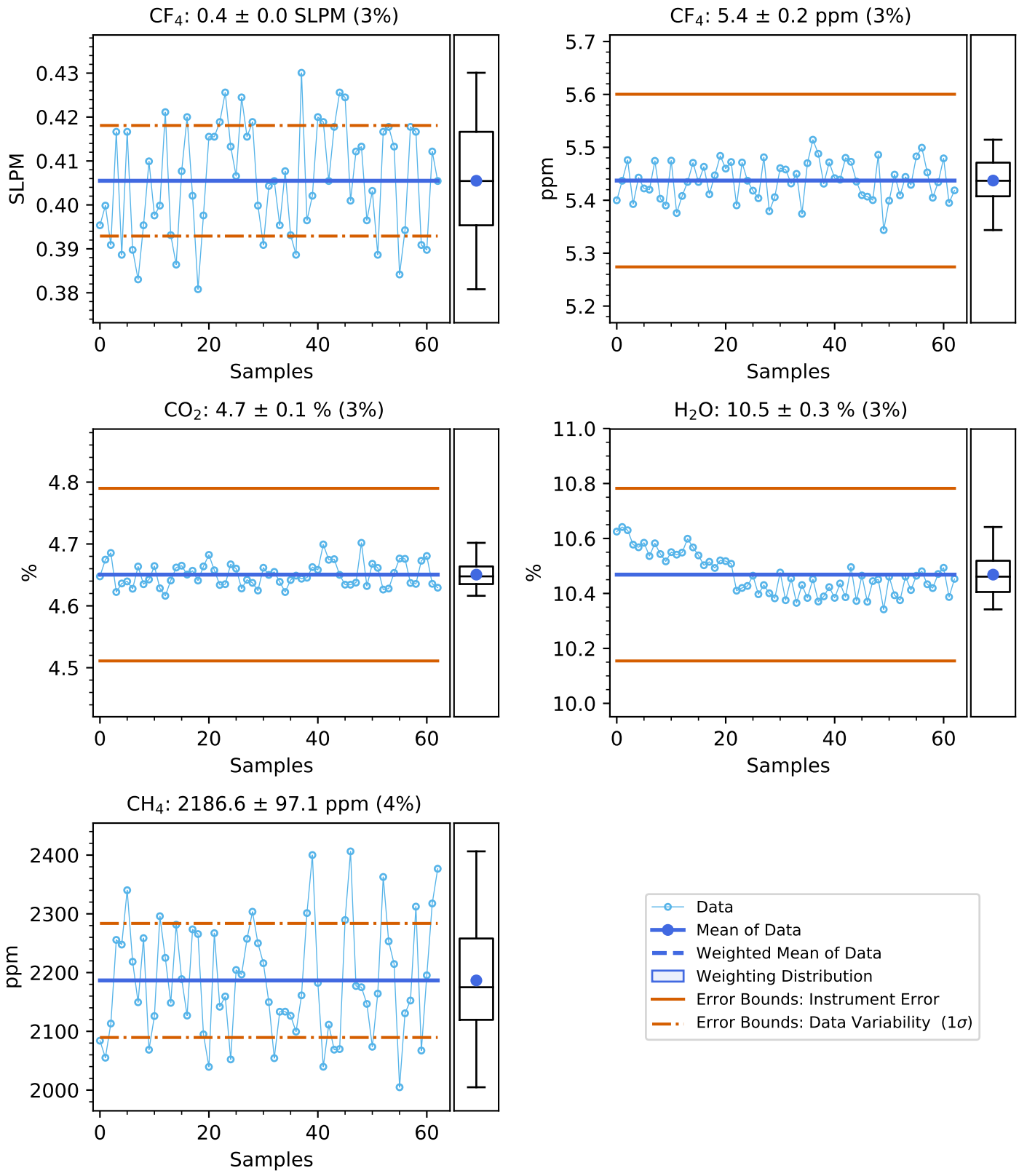
Facility: 509 Unit: 1 Test: 5



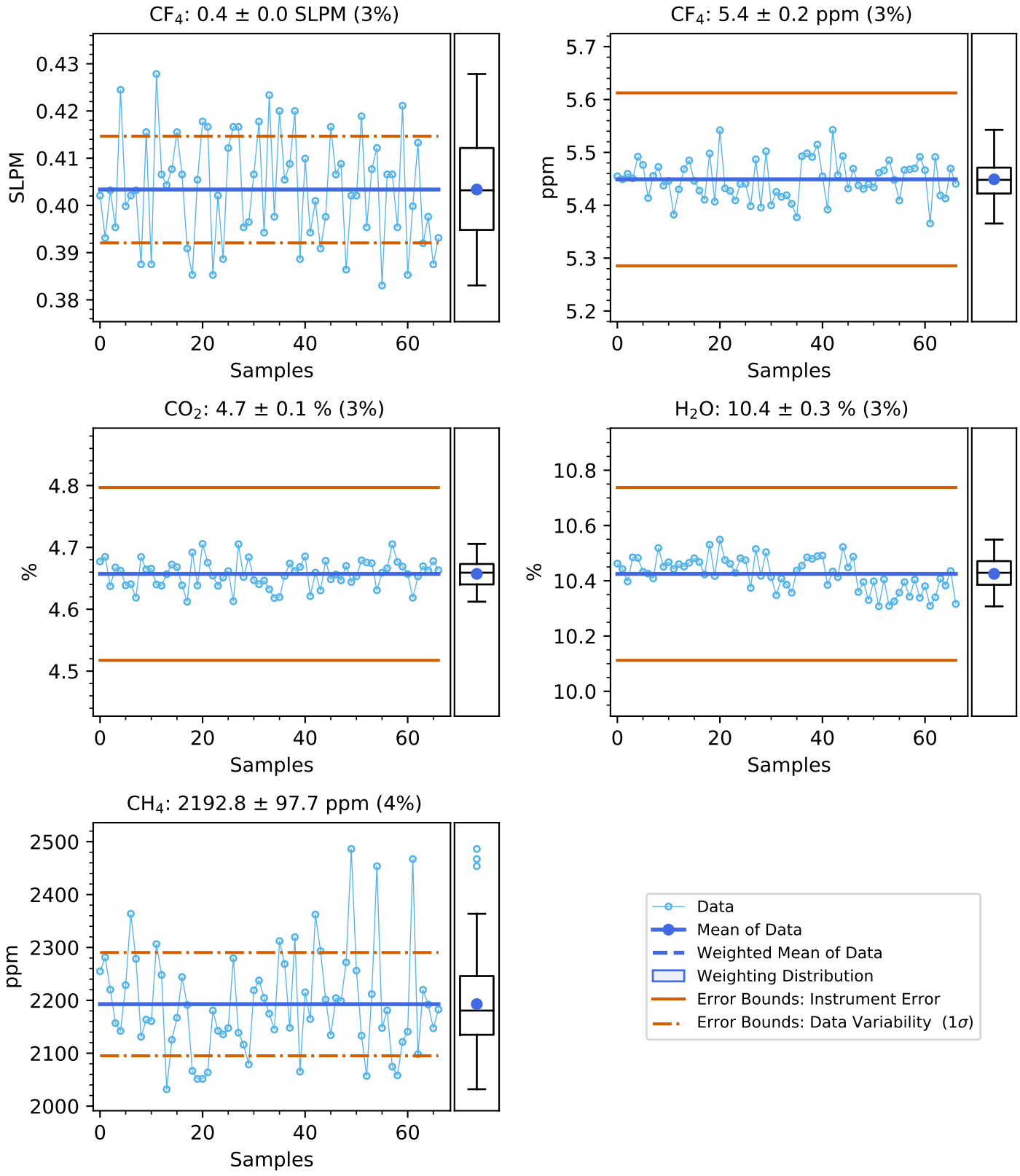
Facility: 1945 Unit: 1 Test: 1



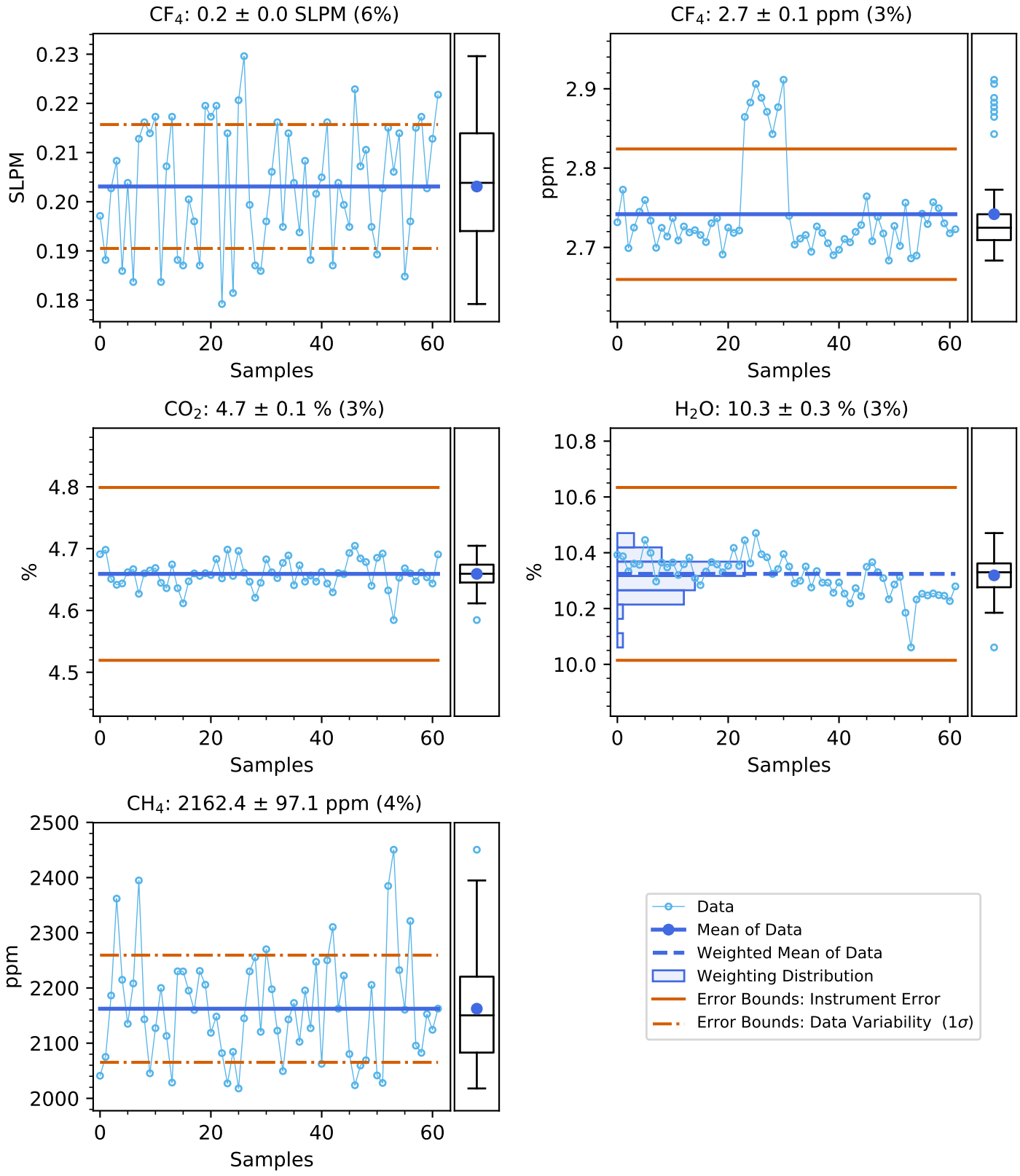
Facility: 1945 Unit: 1 Test: 2



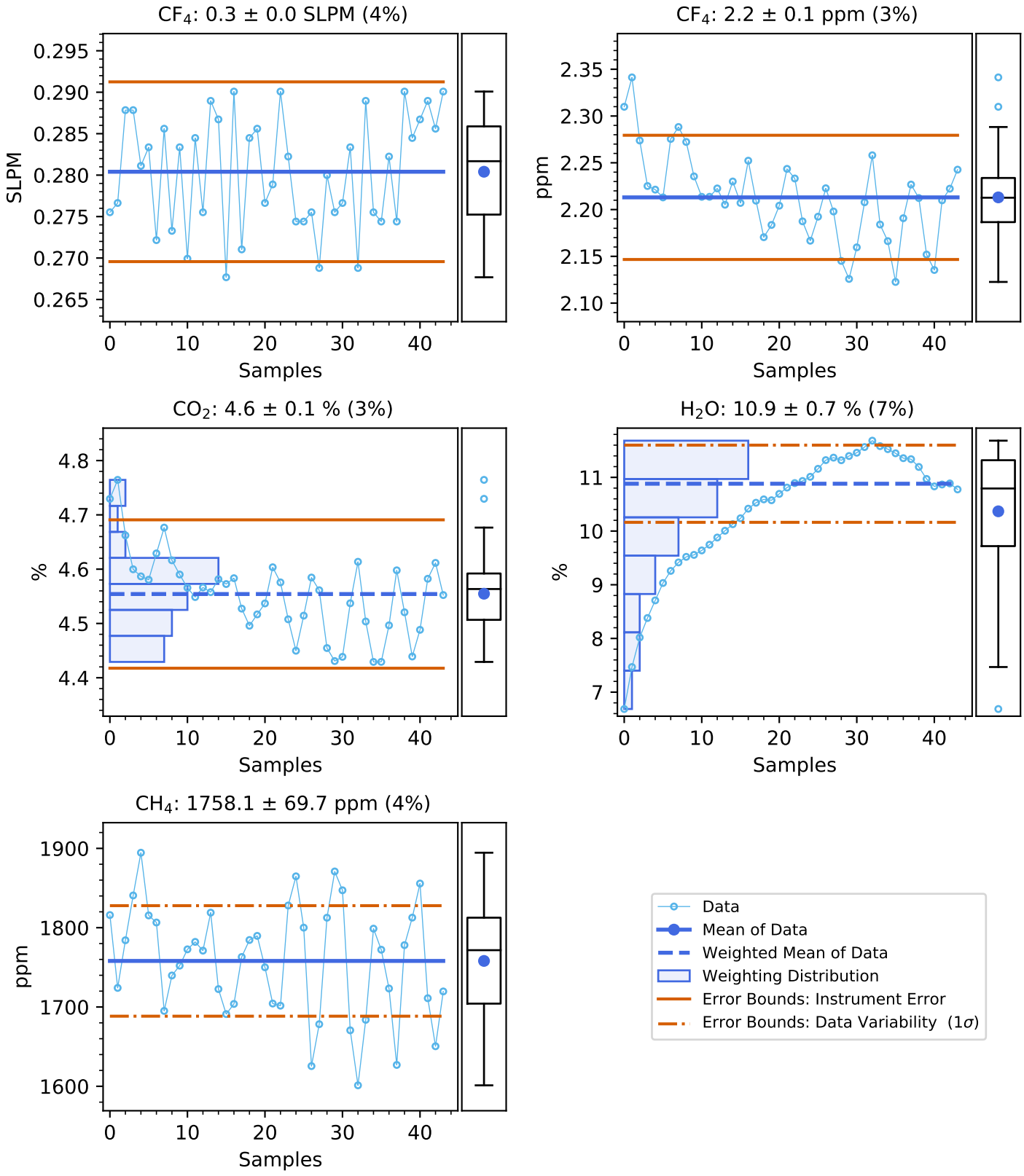
Facility: 1945 Unit: 1 Test: 3



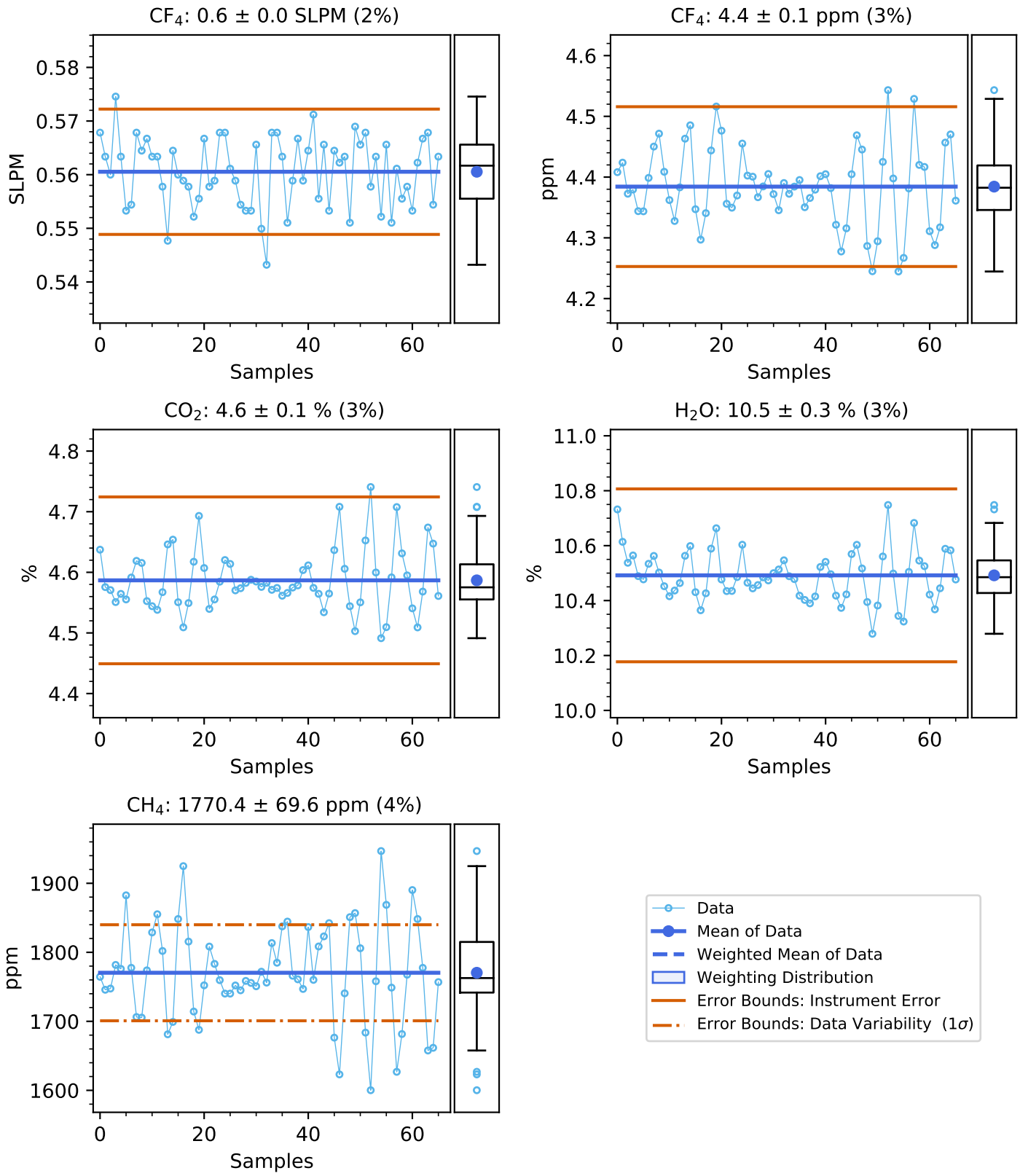
Facility: 1945 Unit: 1 Test: 4



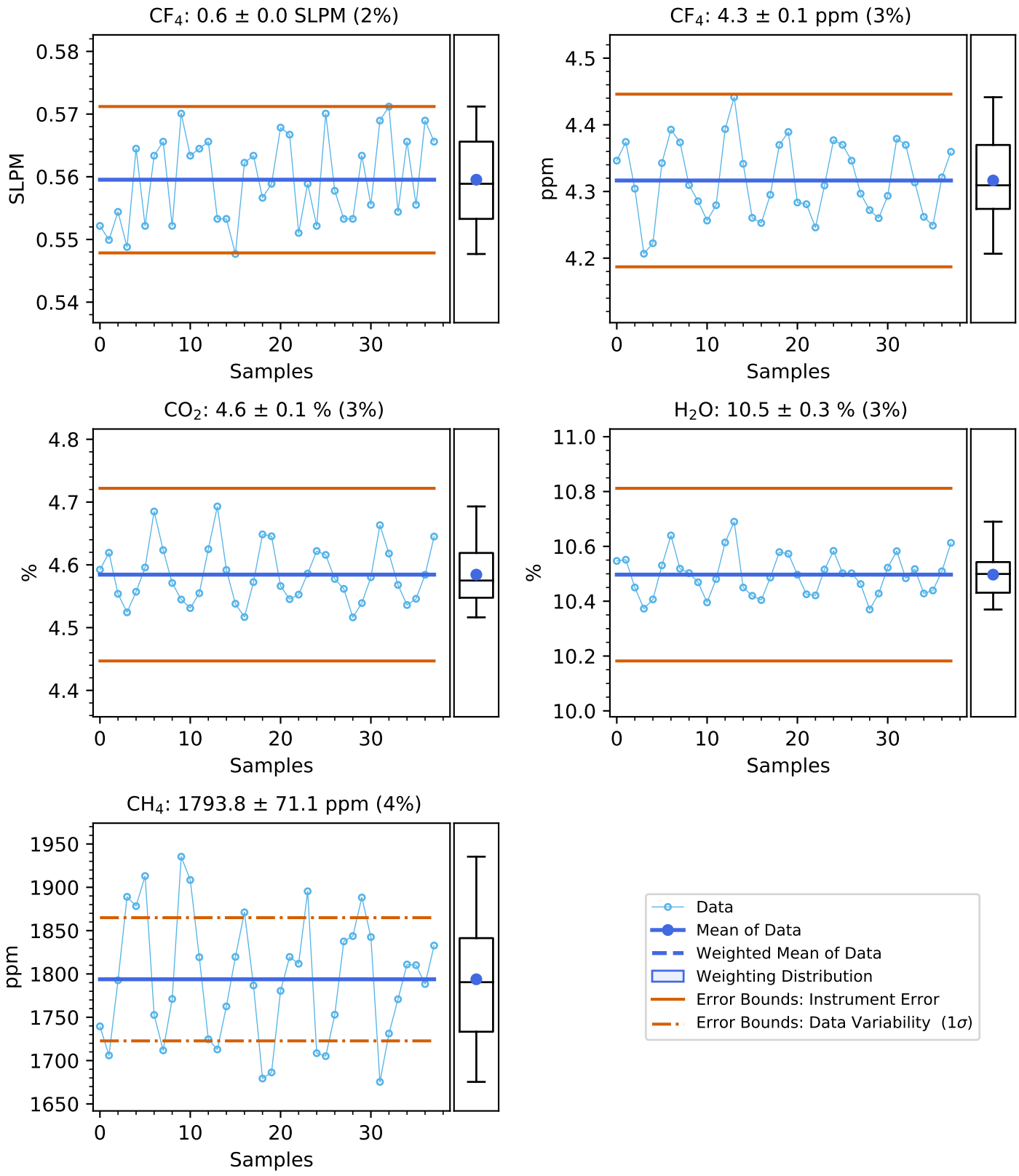
Facility: 1496 Unit: 1 Test: 1



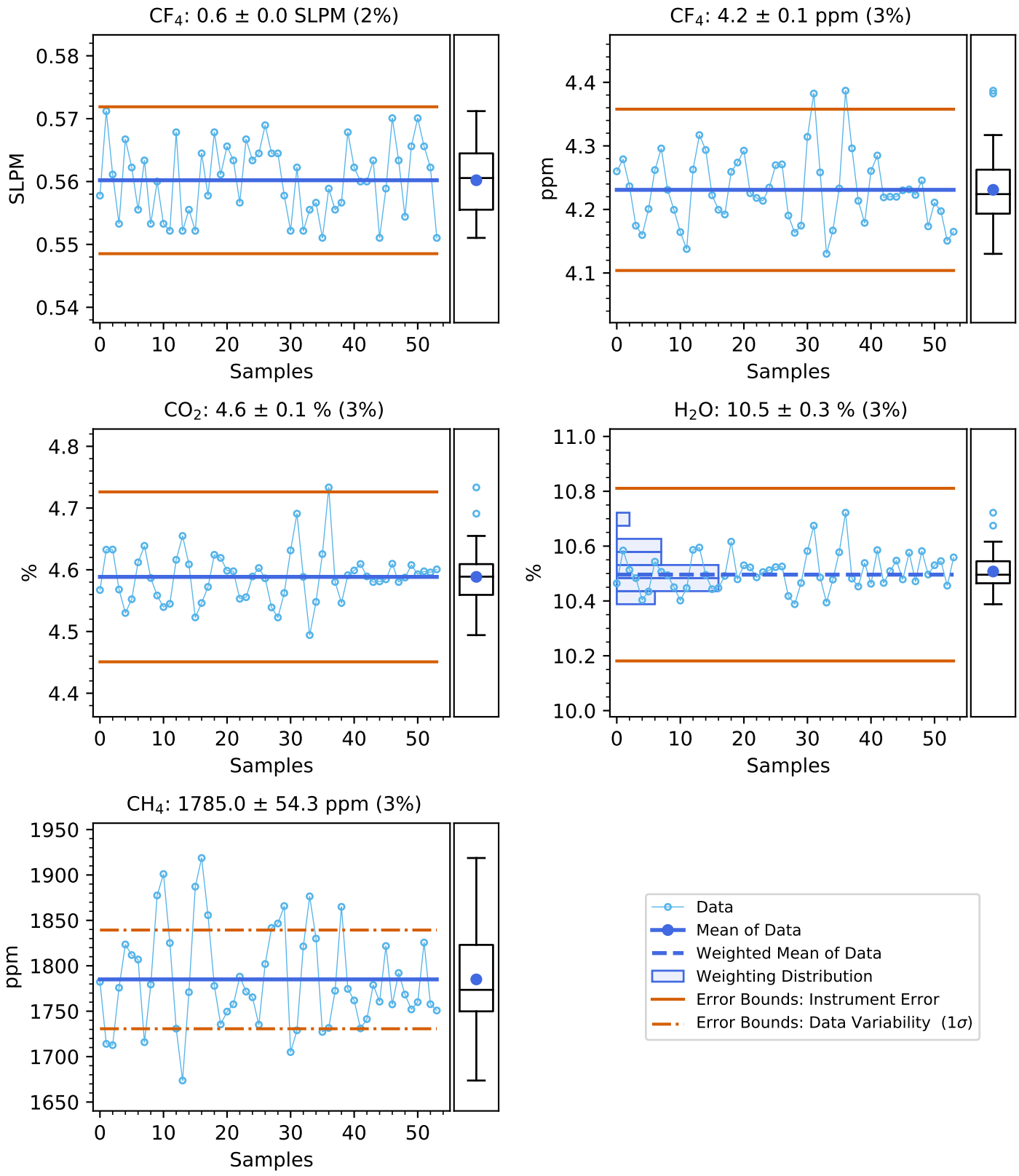
Facility: 1496 Unit: 1 Test: 2



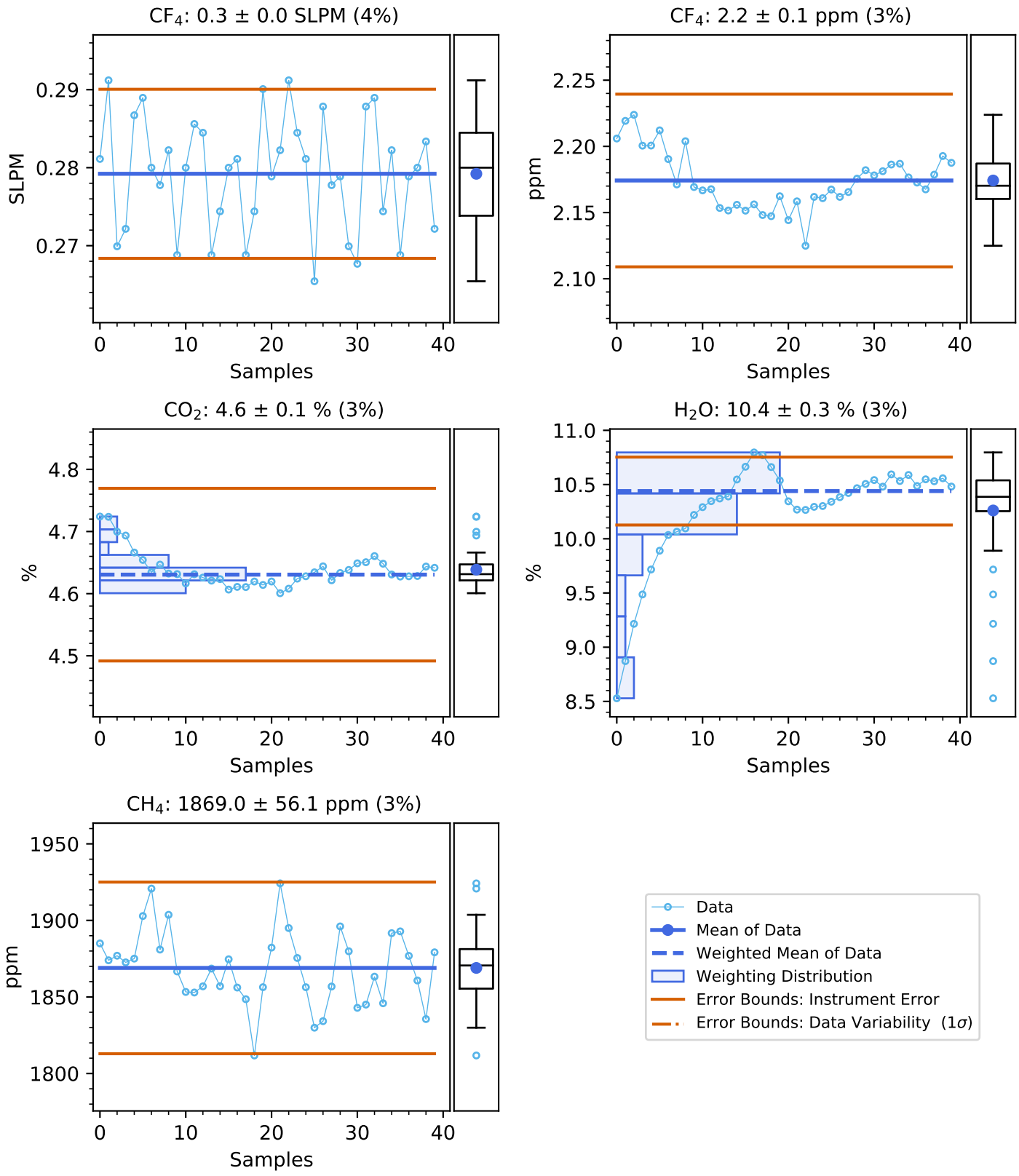
Facility: 1496 Unit: 1 Test: 3



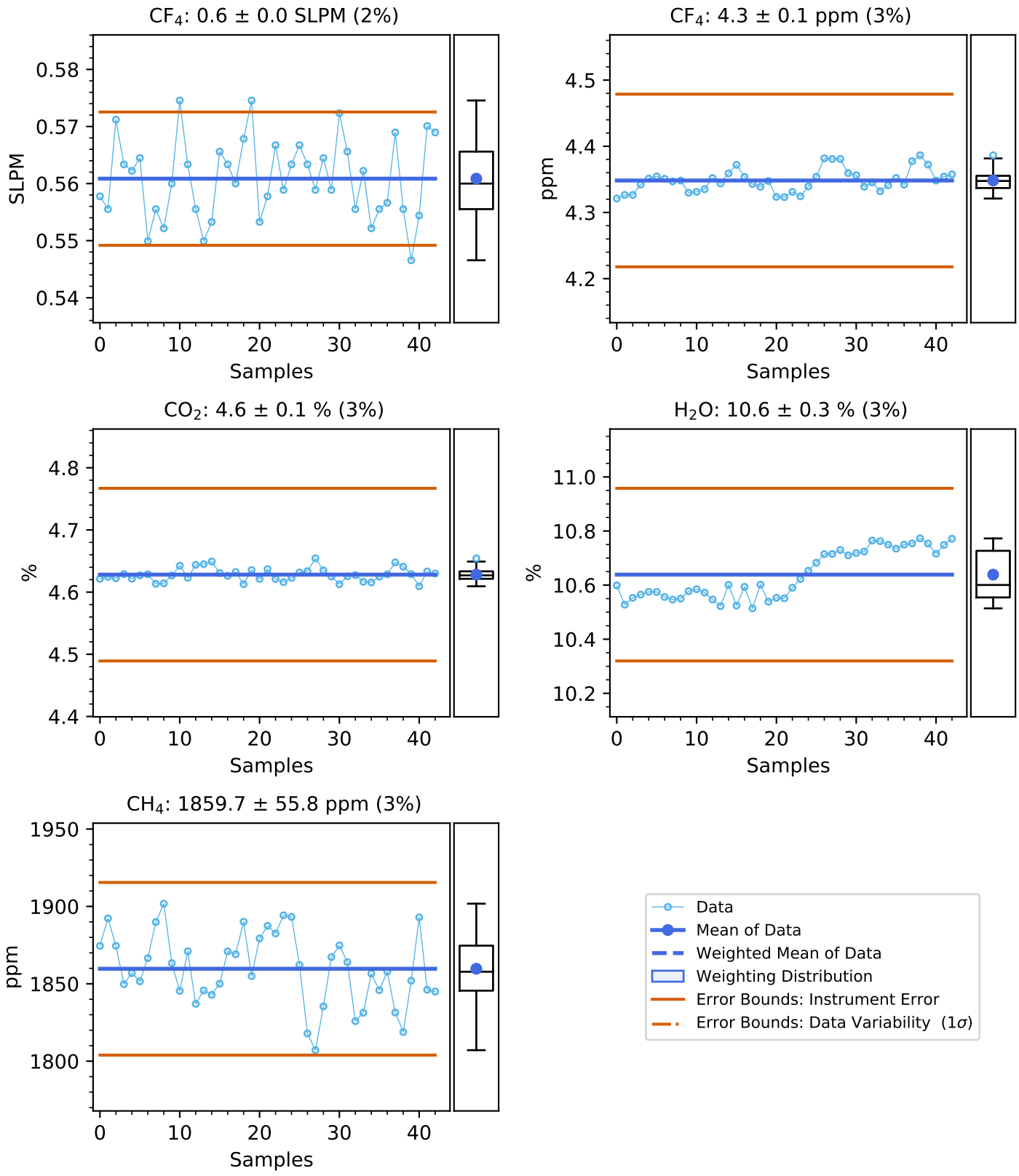
Facility: 1496 Unit: 1 Test: 4



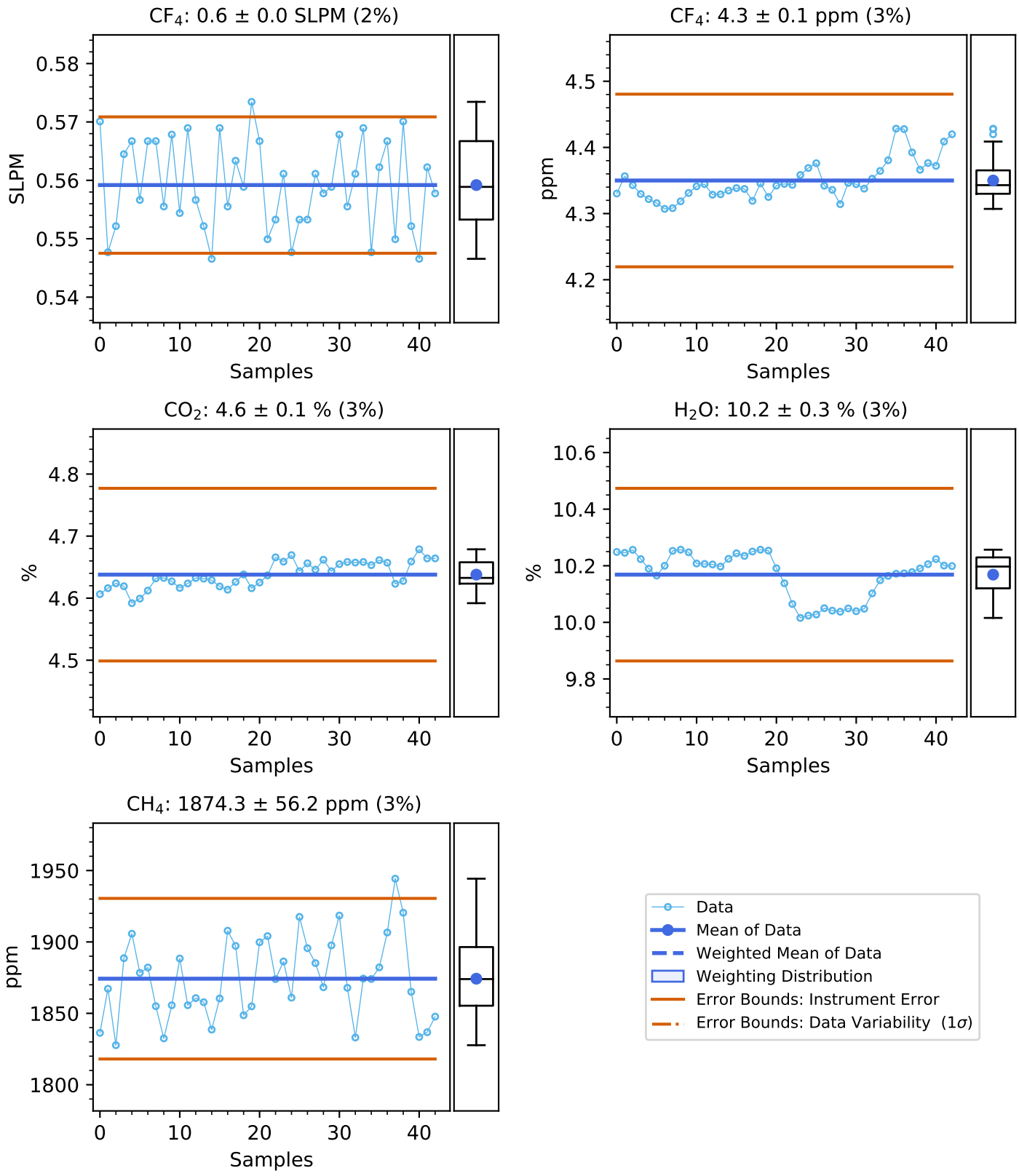
Facility: 1496 Unit: 2 Test: 1



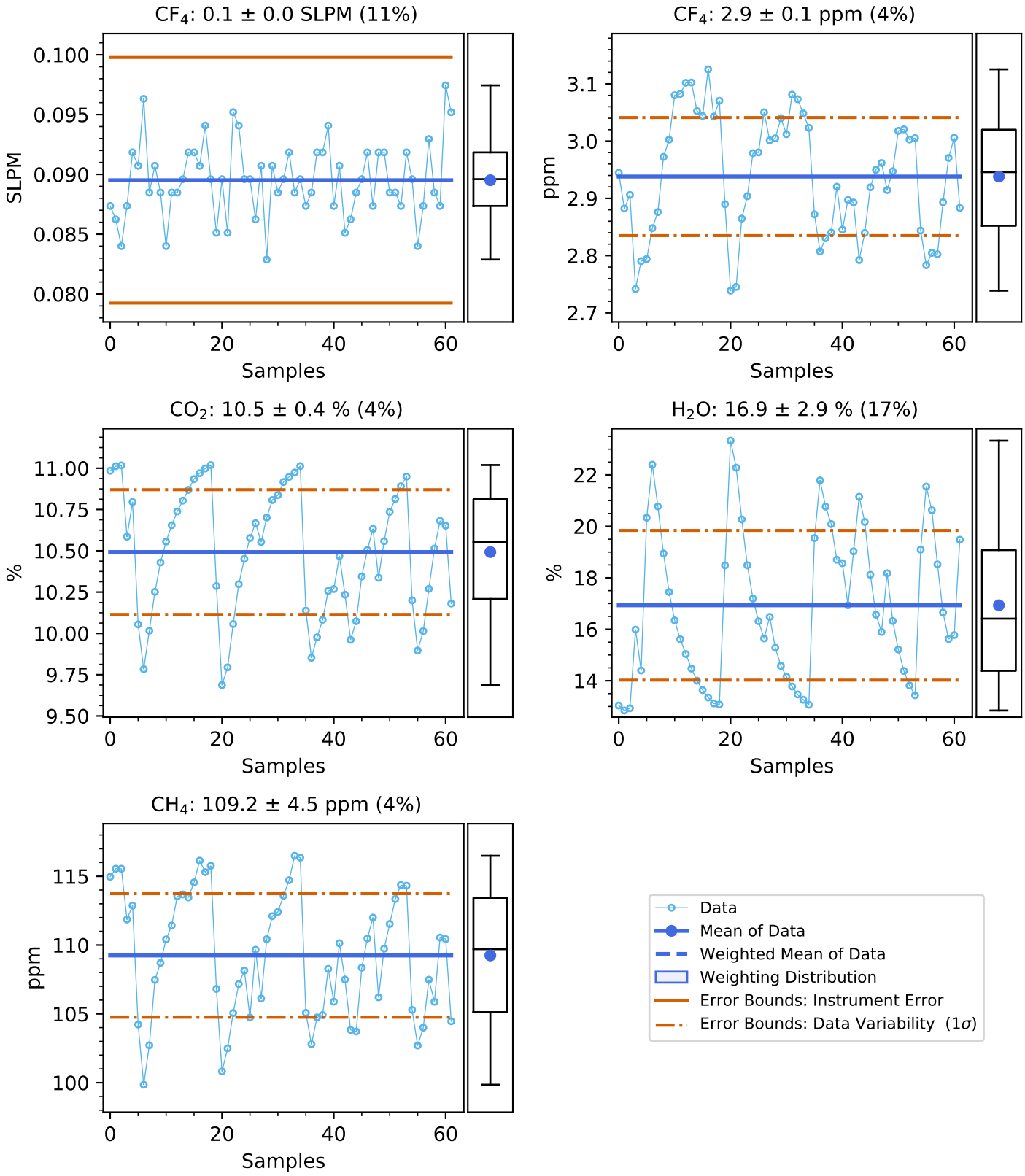
Facility: 1496 Unit: 2 Test: 2



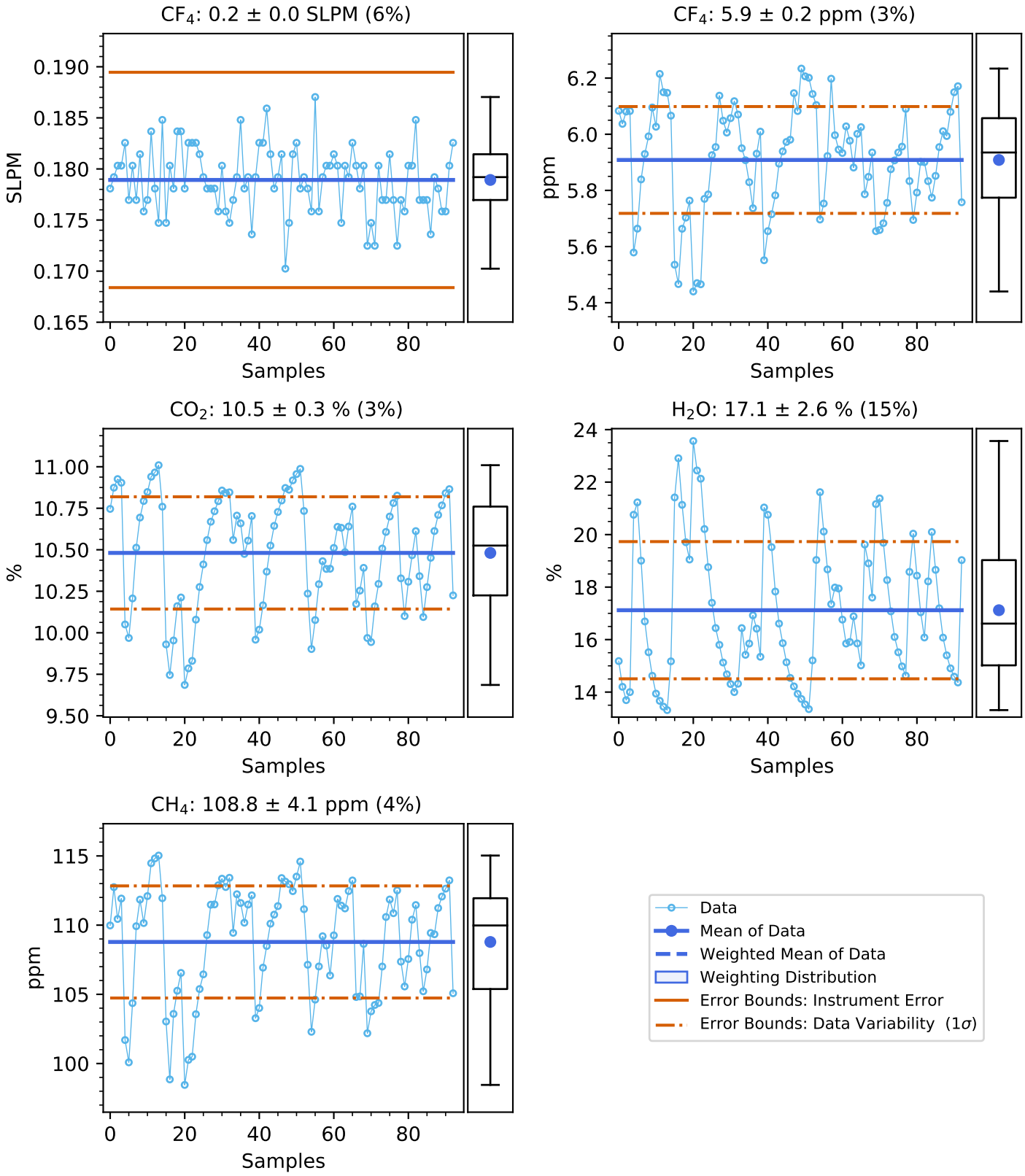
Facility: 1496 Unit: 2 Test: 3



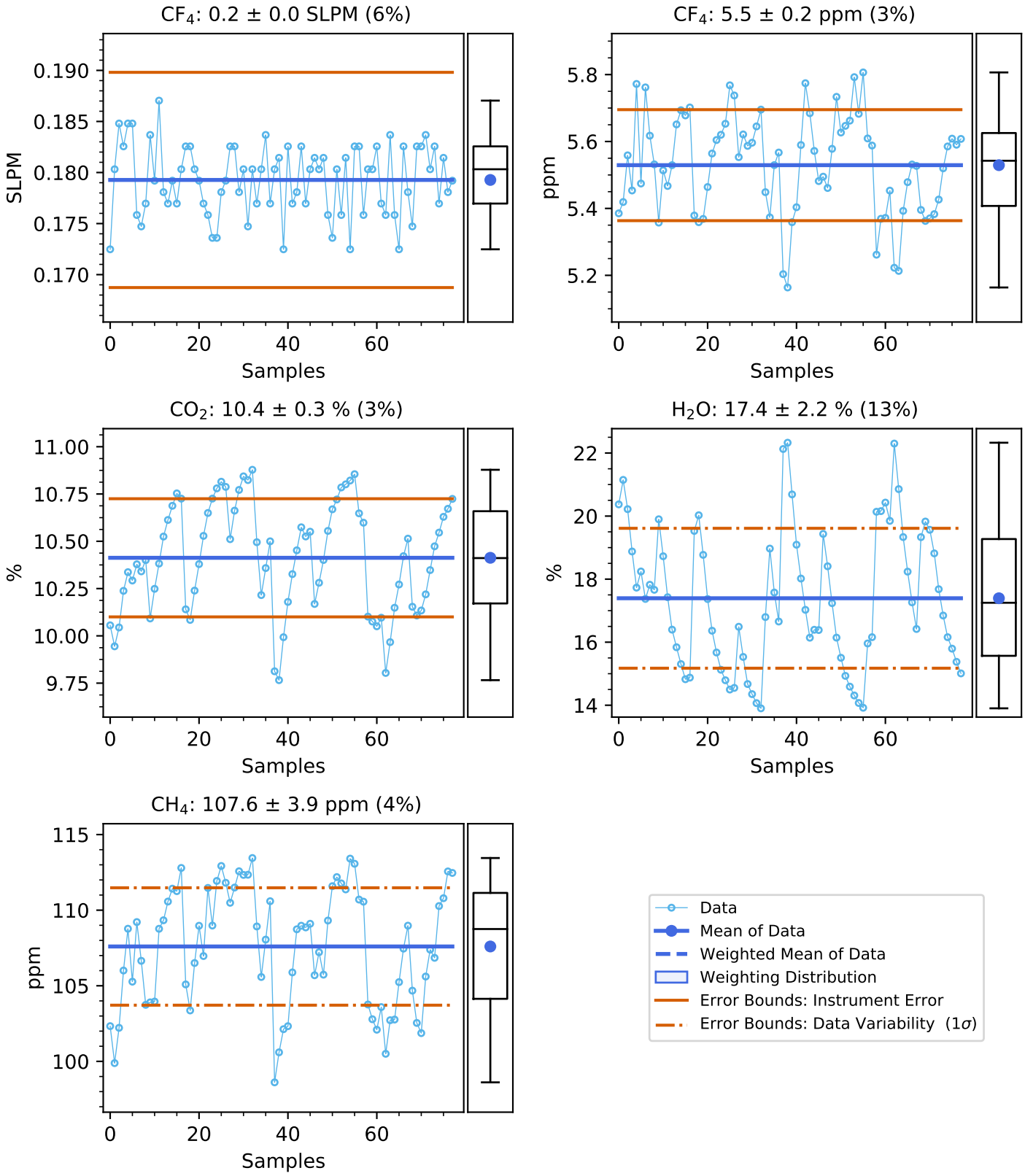
Facility: 1120 Unit: 1 Test: 1



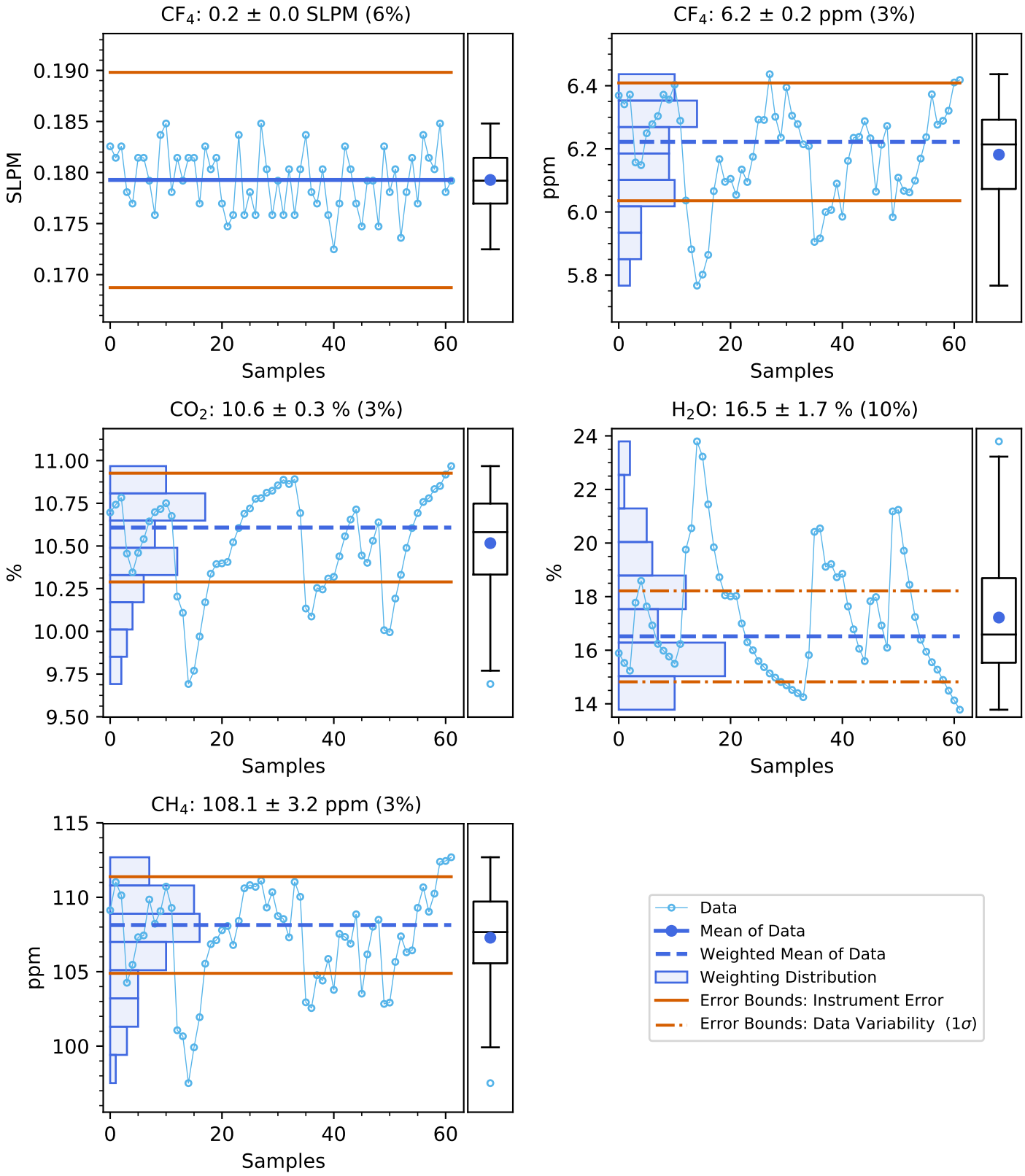
Facility: 1120 Unit: 1 Test: 2



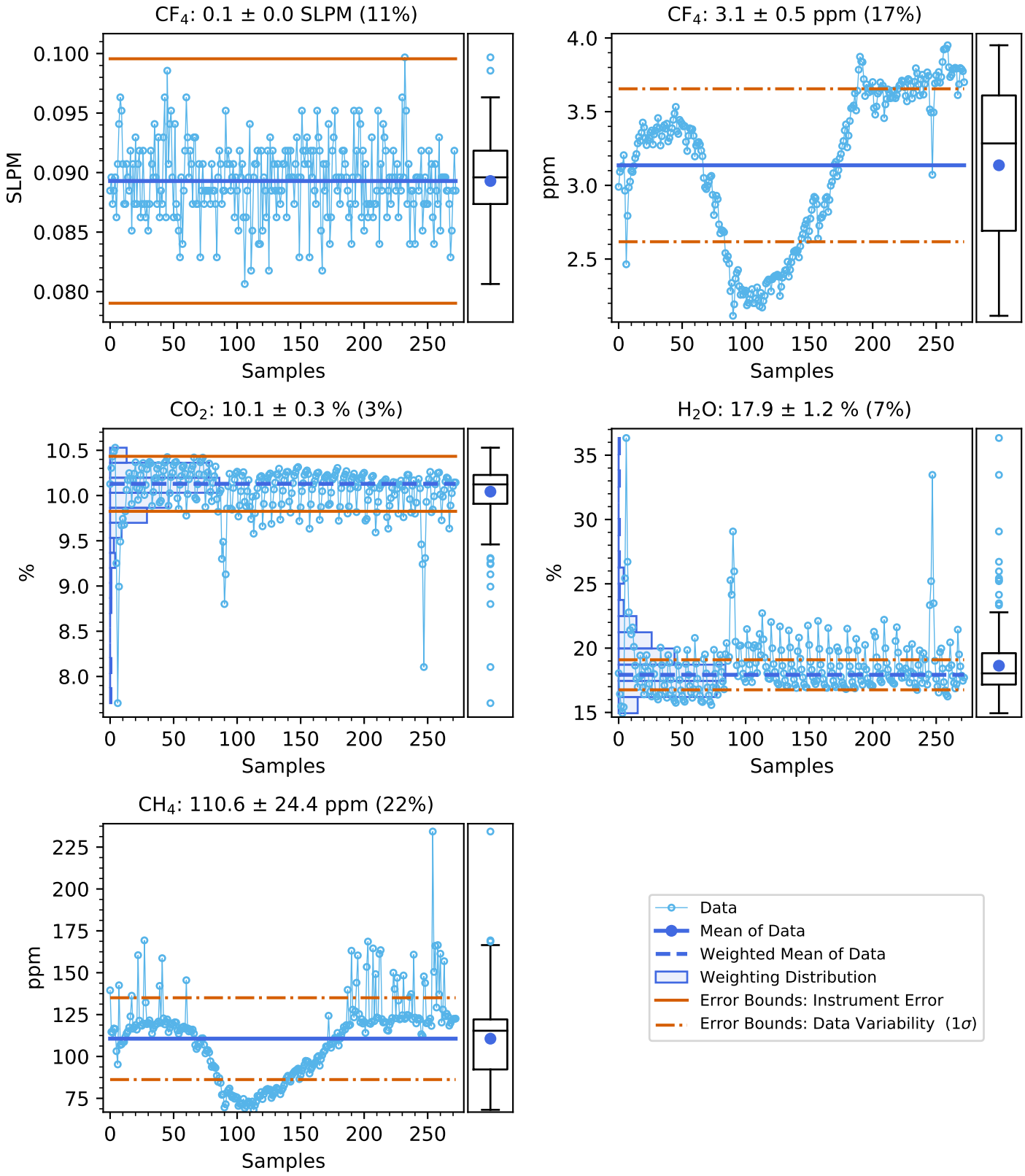
Facility: 1120 Unit: 1 Test: 3



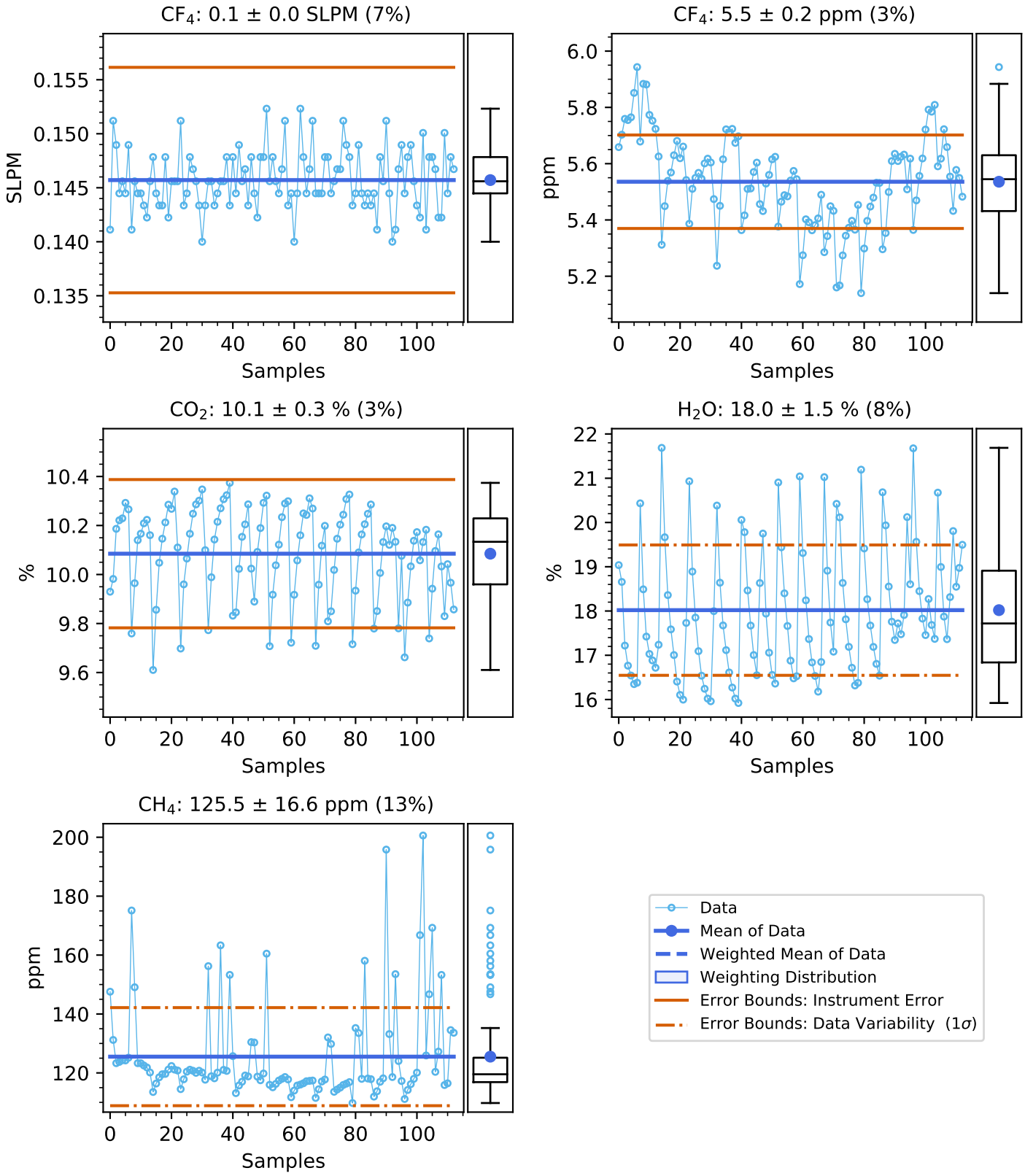
Facility: 1120 Unit: 1 Test: 4



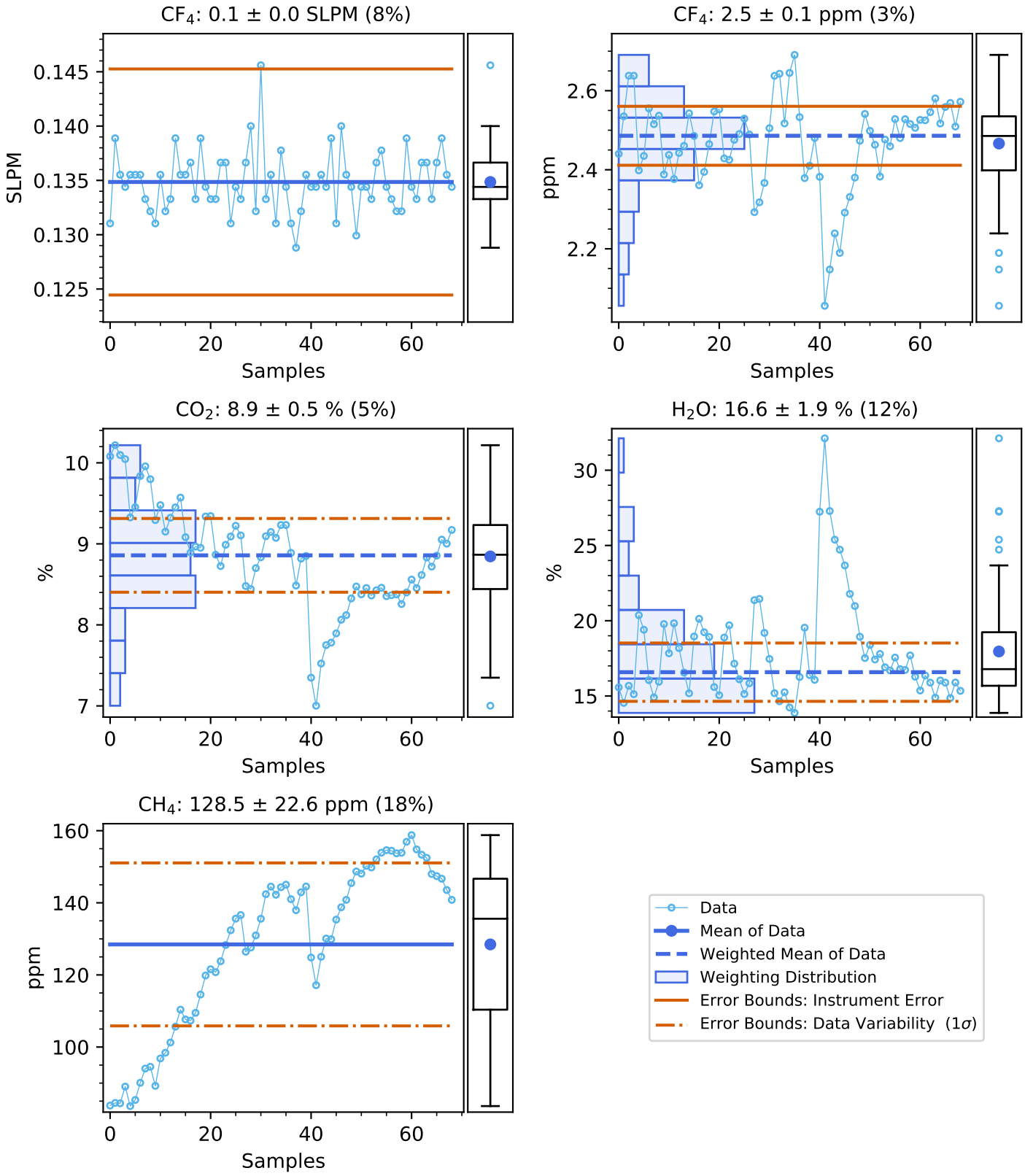
Facility: 704 Unit: 1 Test: 1



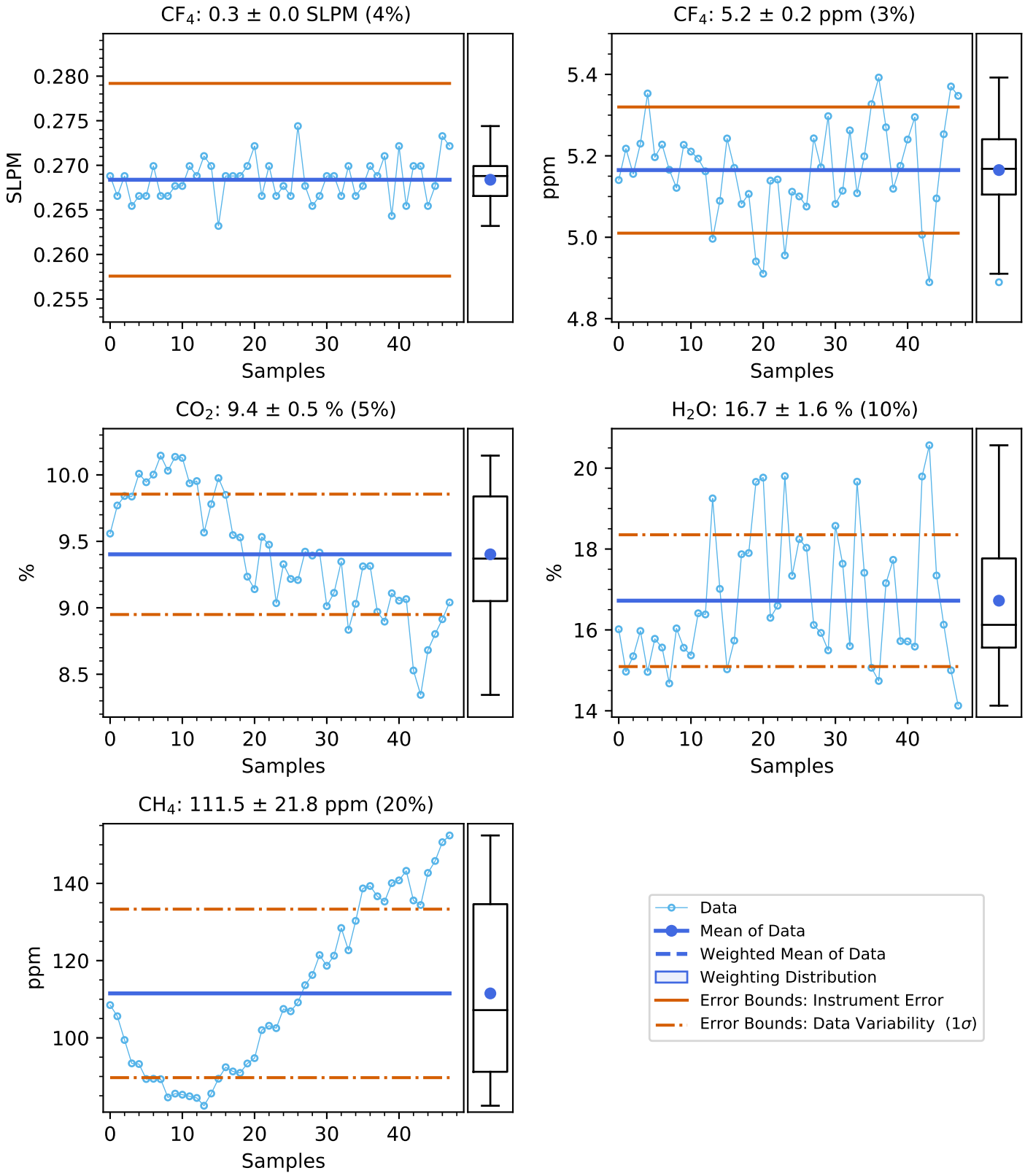
Facility: 704 Unit: 1 Test: 2



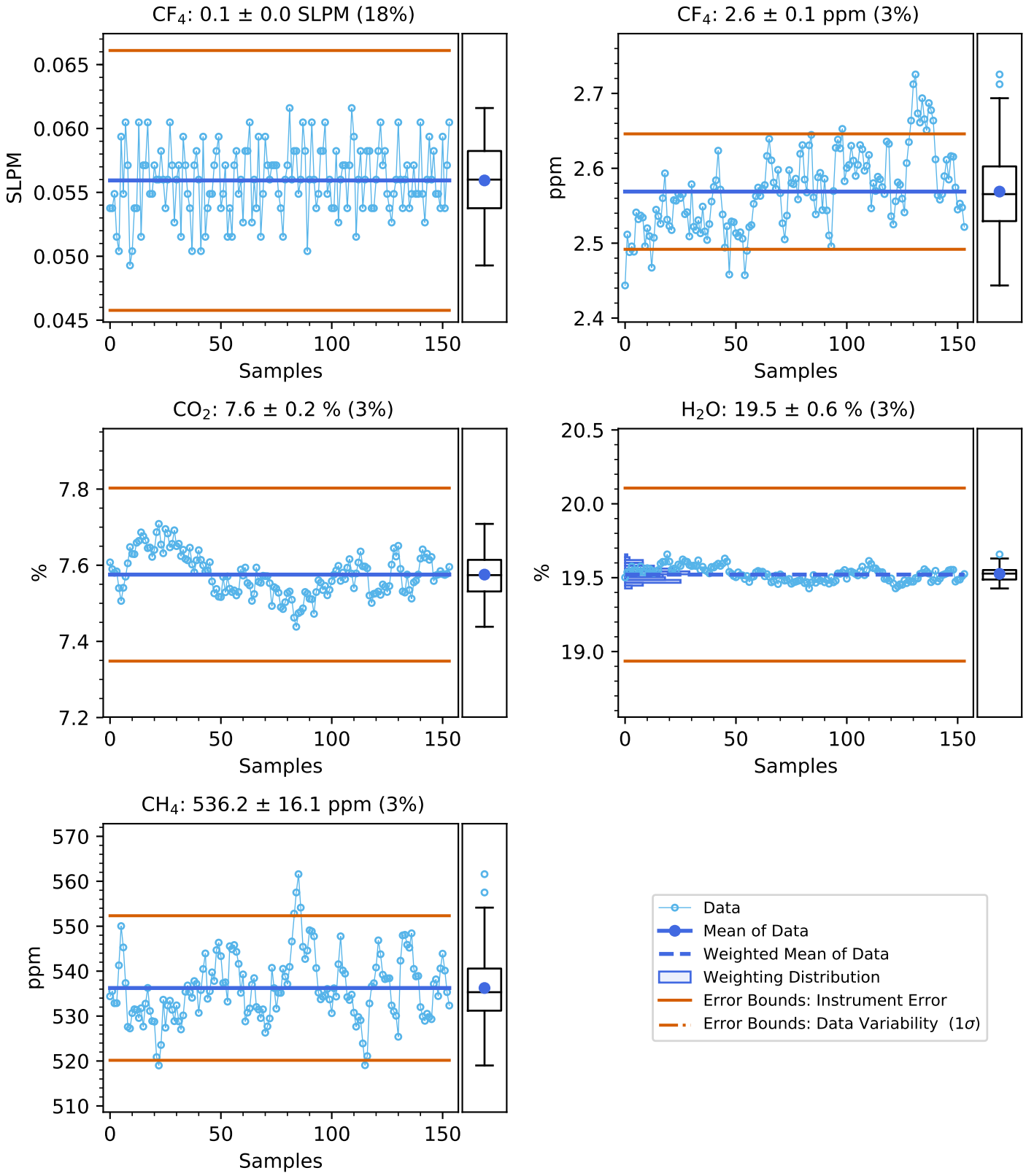
Facility: 788 Unit: 1 Test: 1



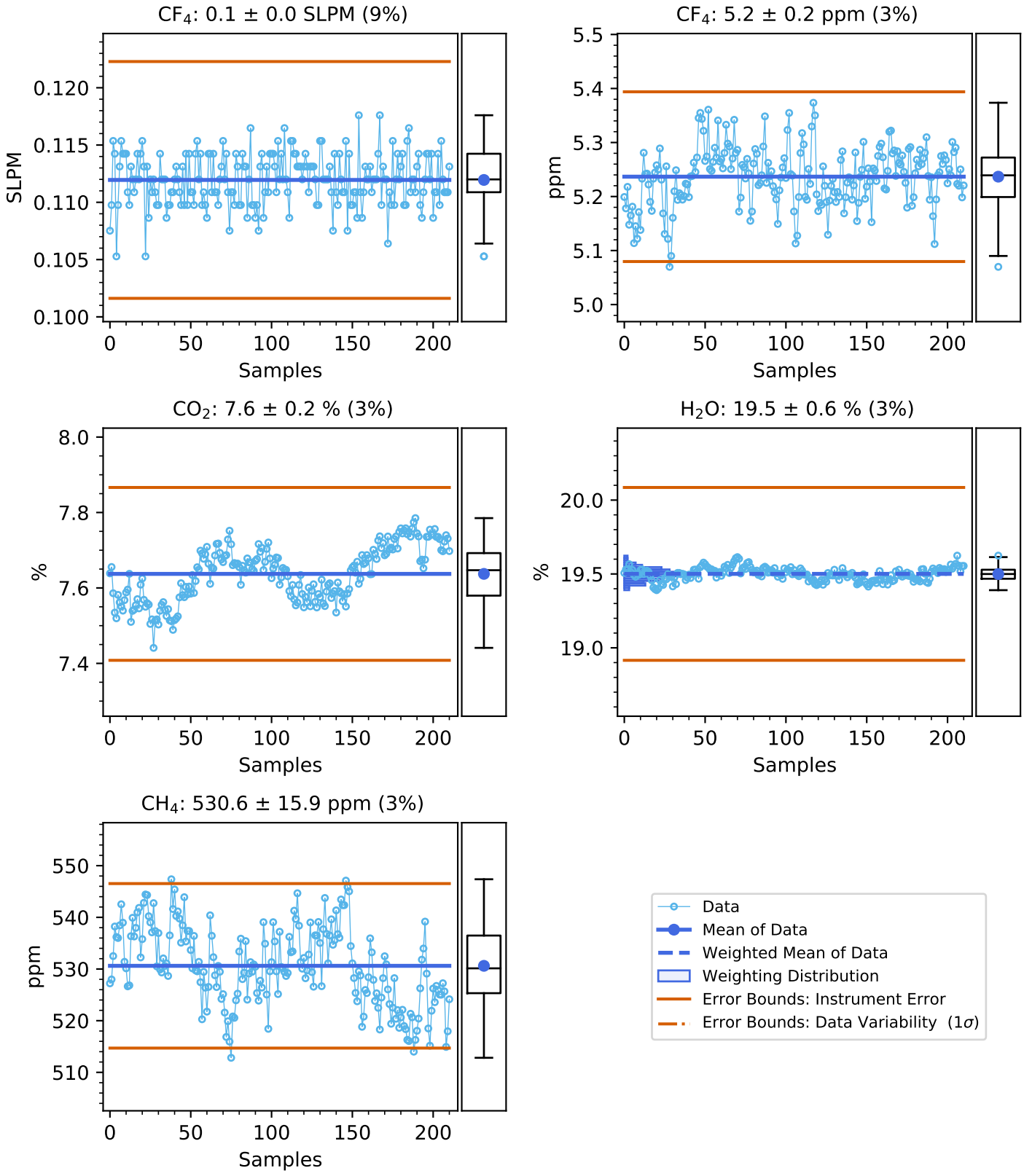
Facility: 788 Unit: 1 Test: 2



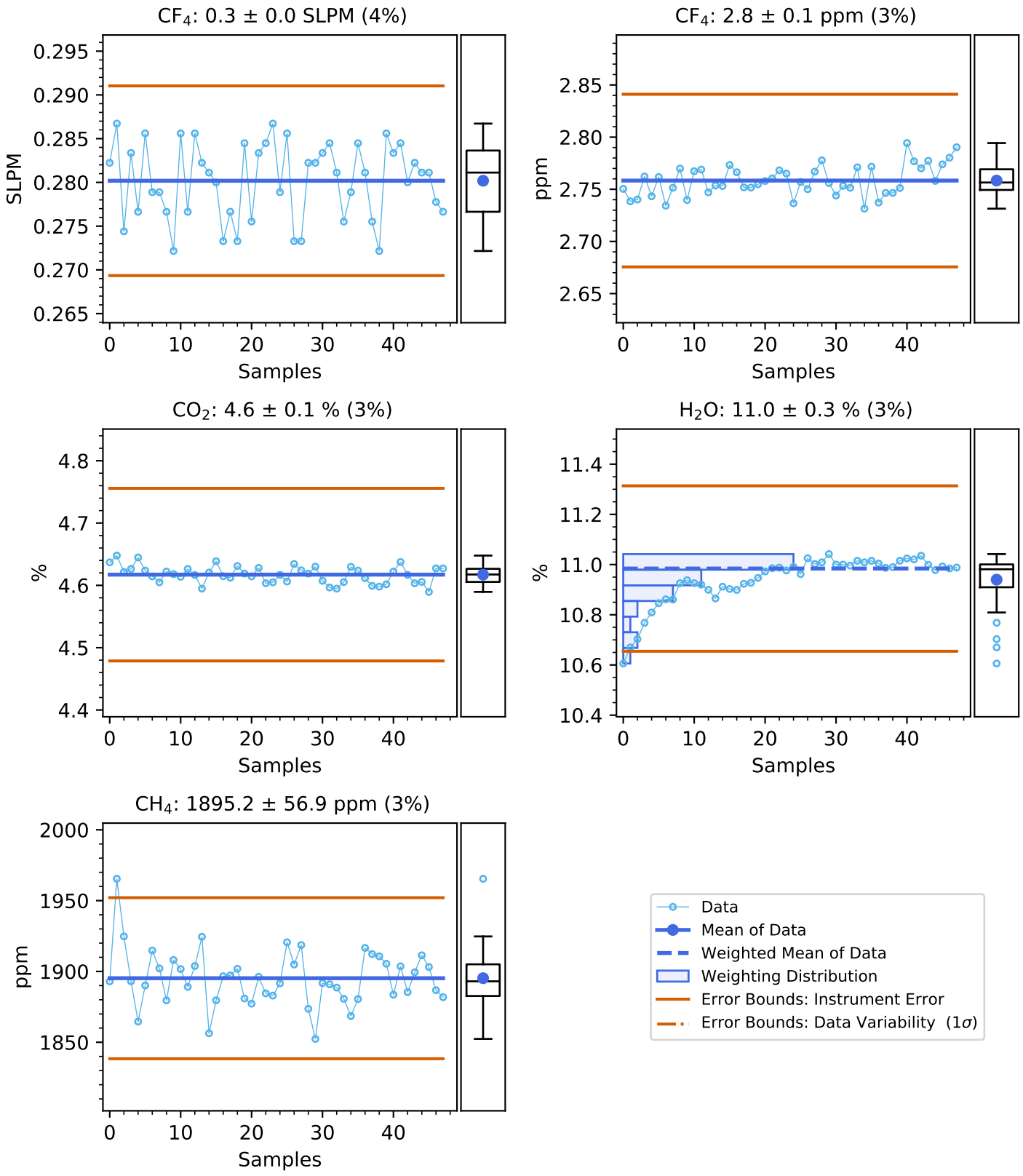
Facility: 2291 Unit: 1 Test: 1



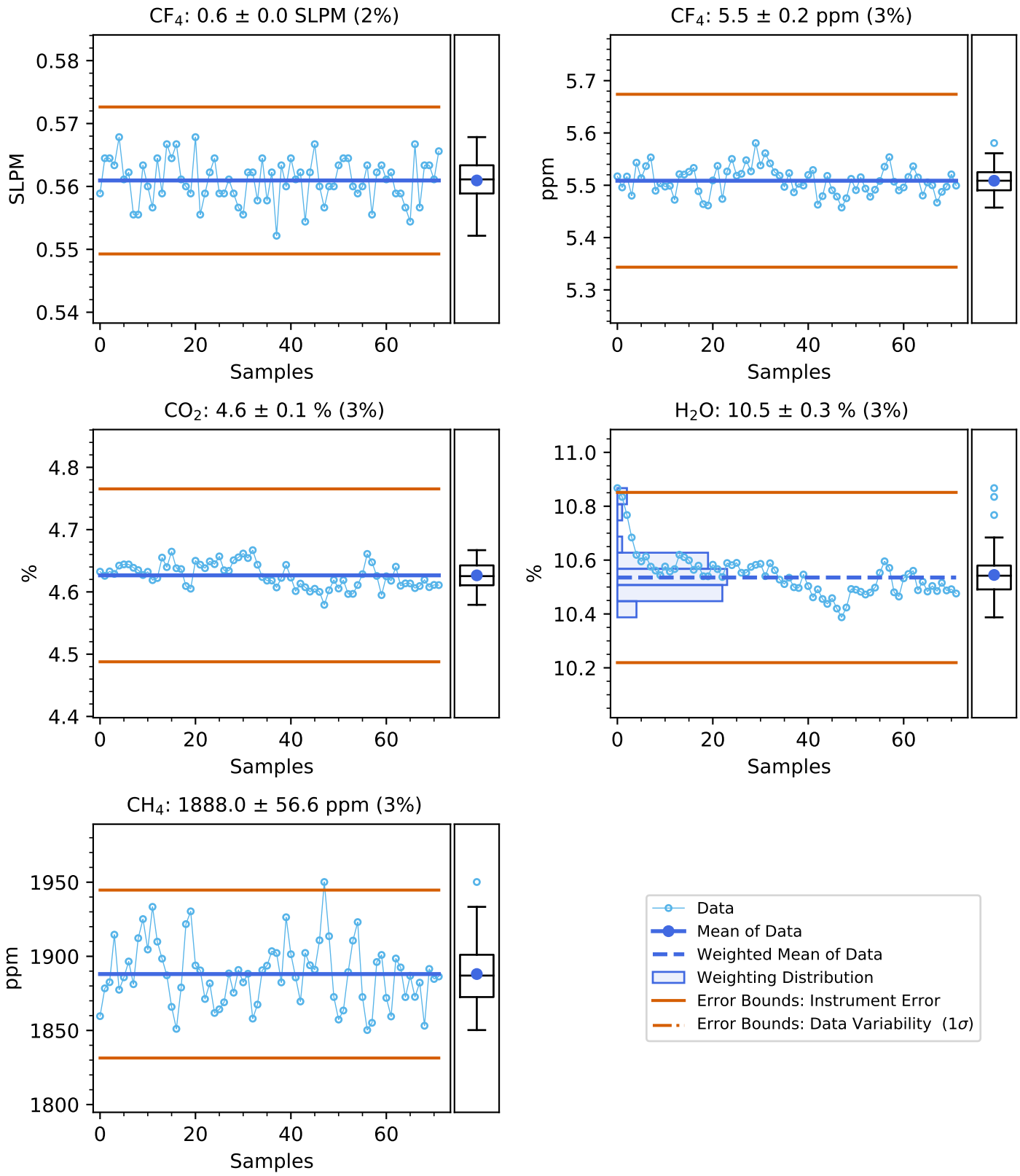
Facility: 2291 Unit: 1 Test: 2



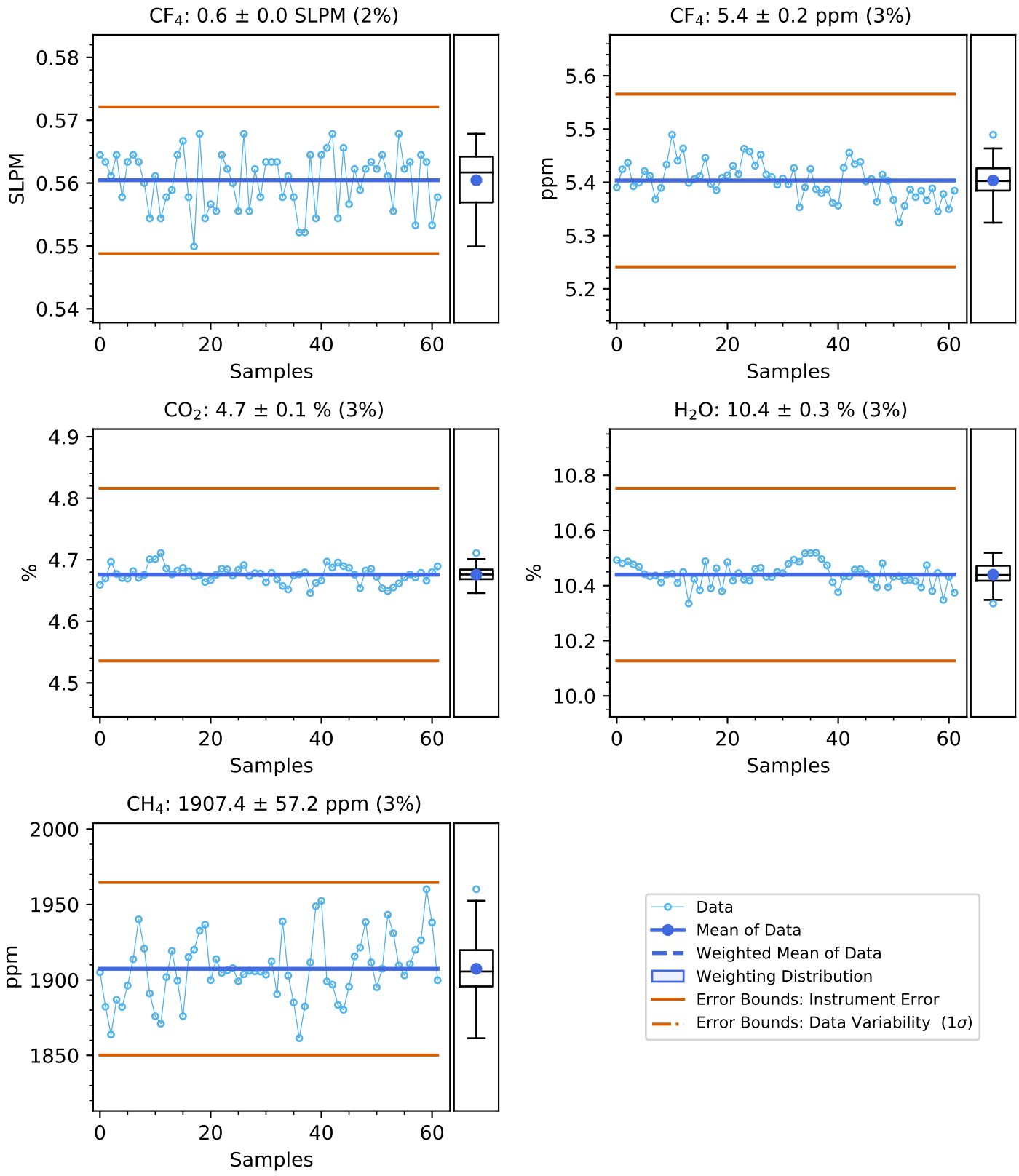
Facility: 2833 Unit: 1 Test: 1



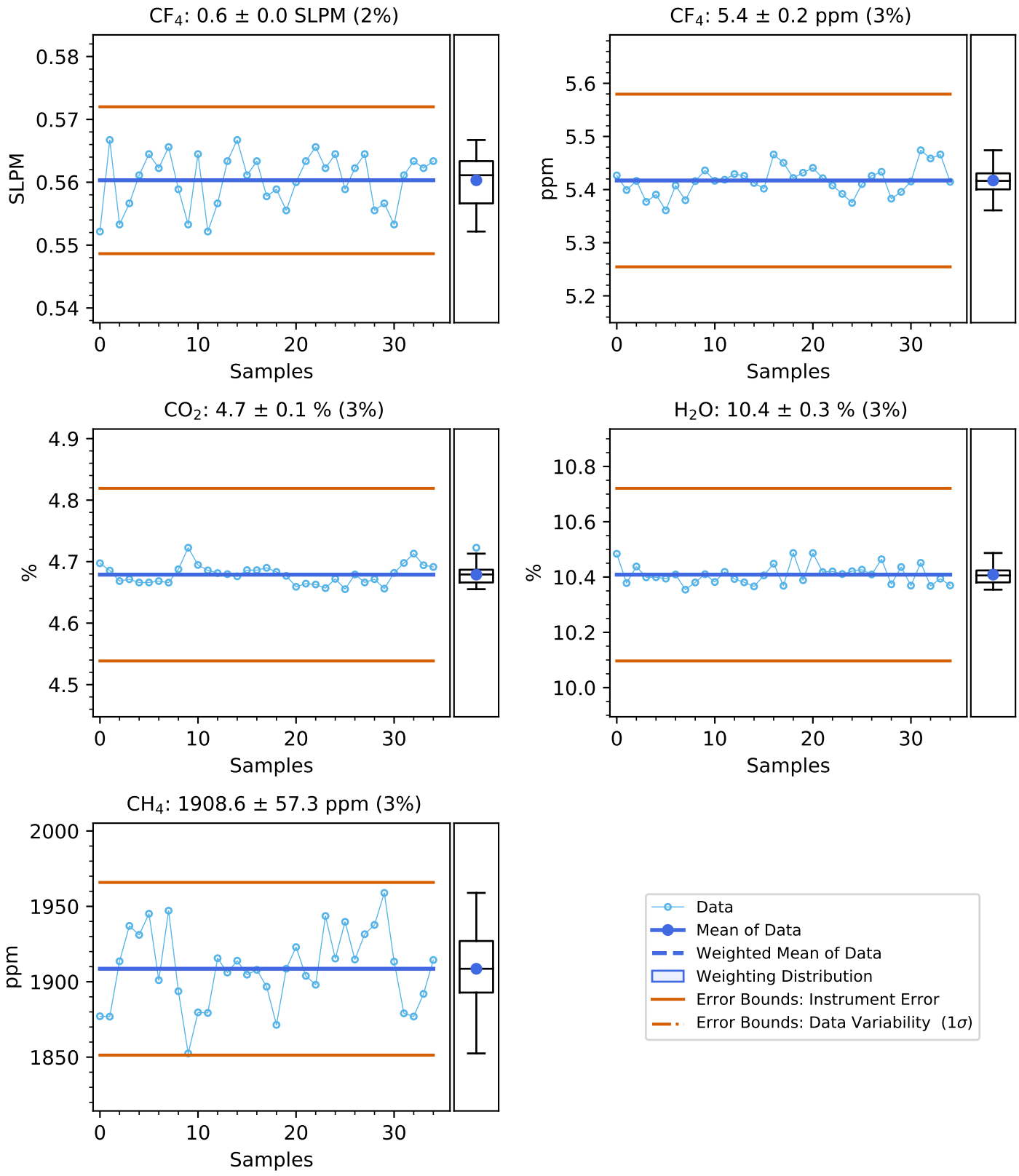
Facility: 2833 Unit: 1 Test: 2



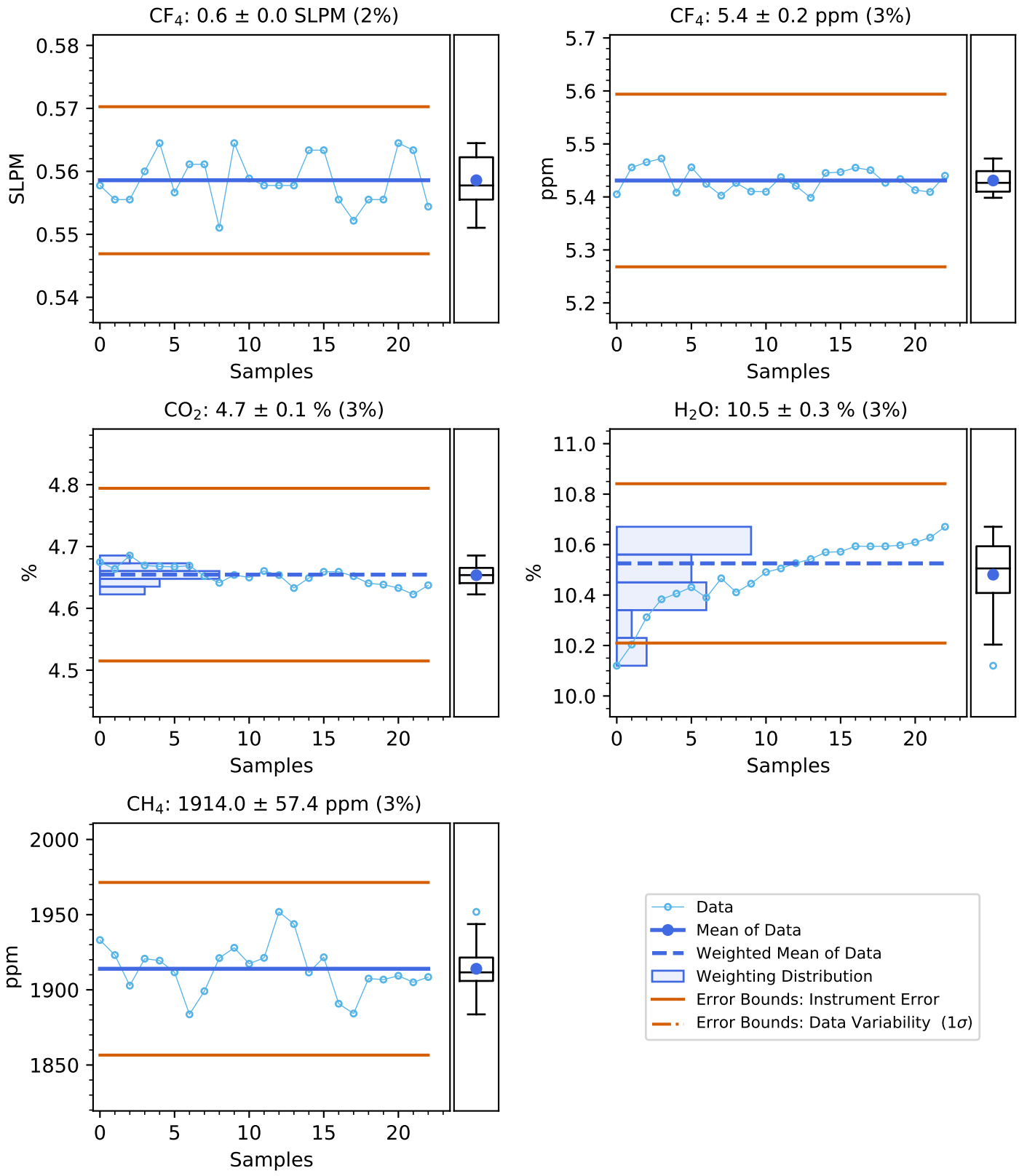
Facility: 2833 Unit: 1 Test: 3



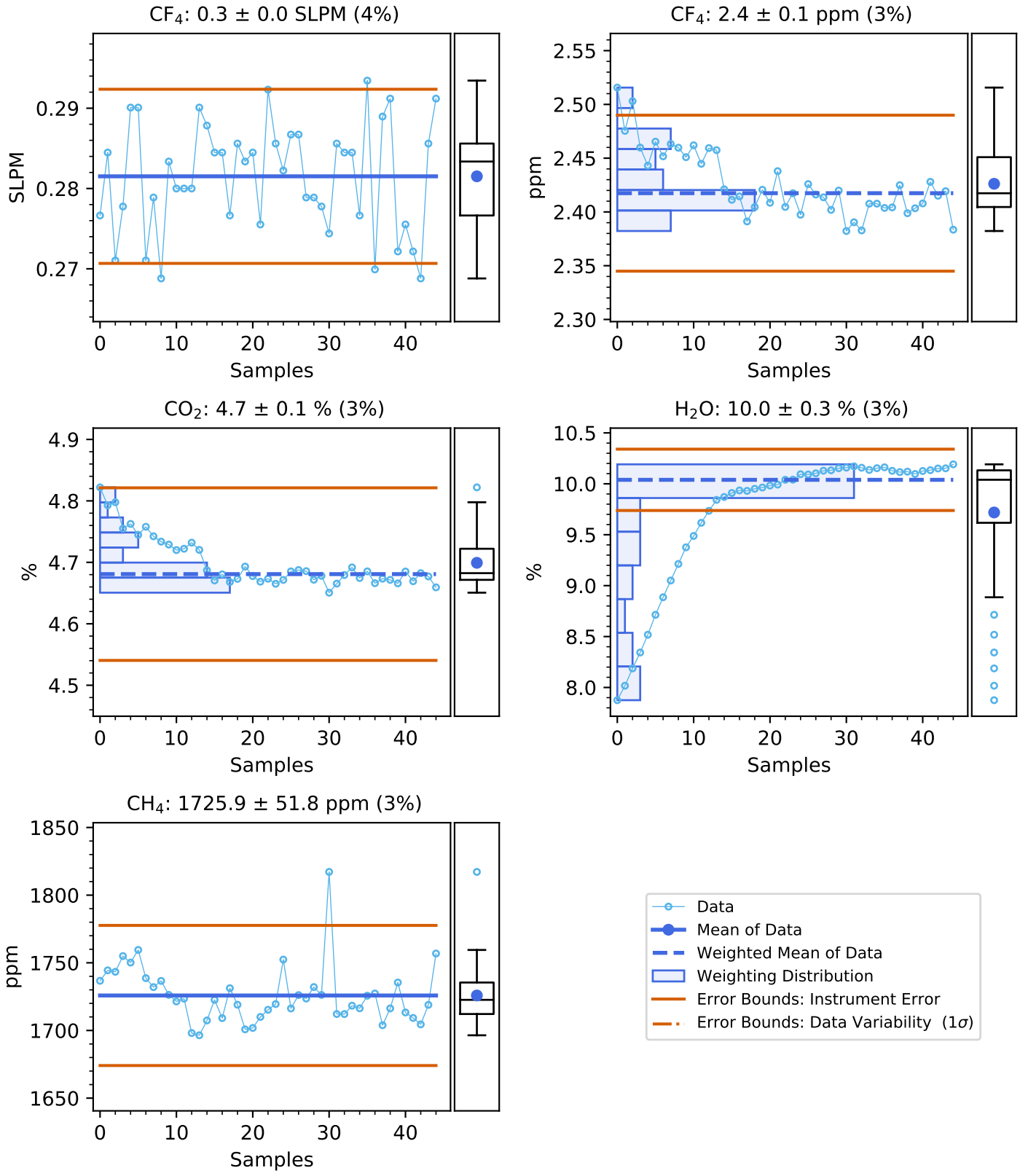
Facility: 2833 Unit: 1 Test: 4



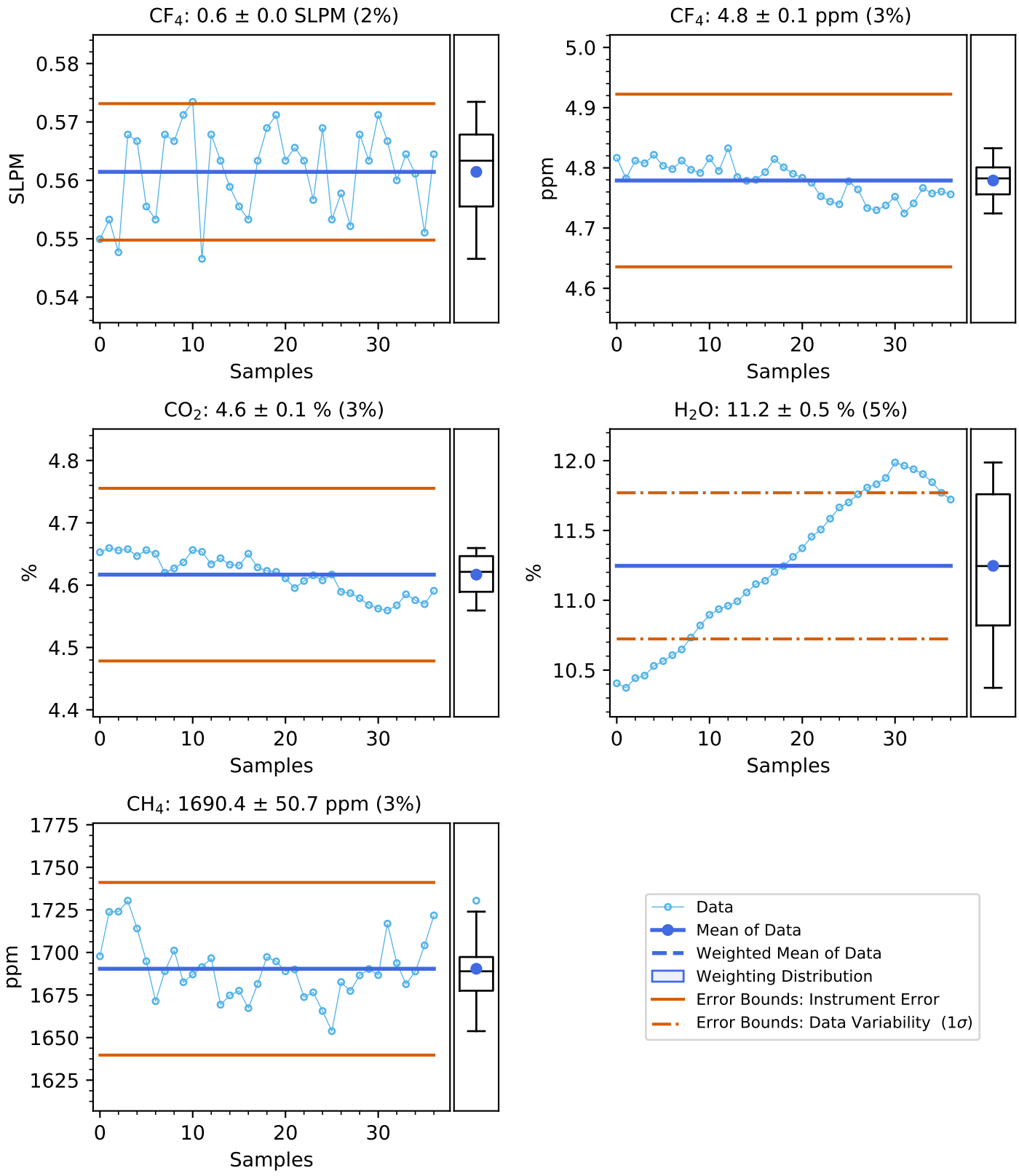
Facility: 2833 Unit: 1 Test: 5



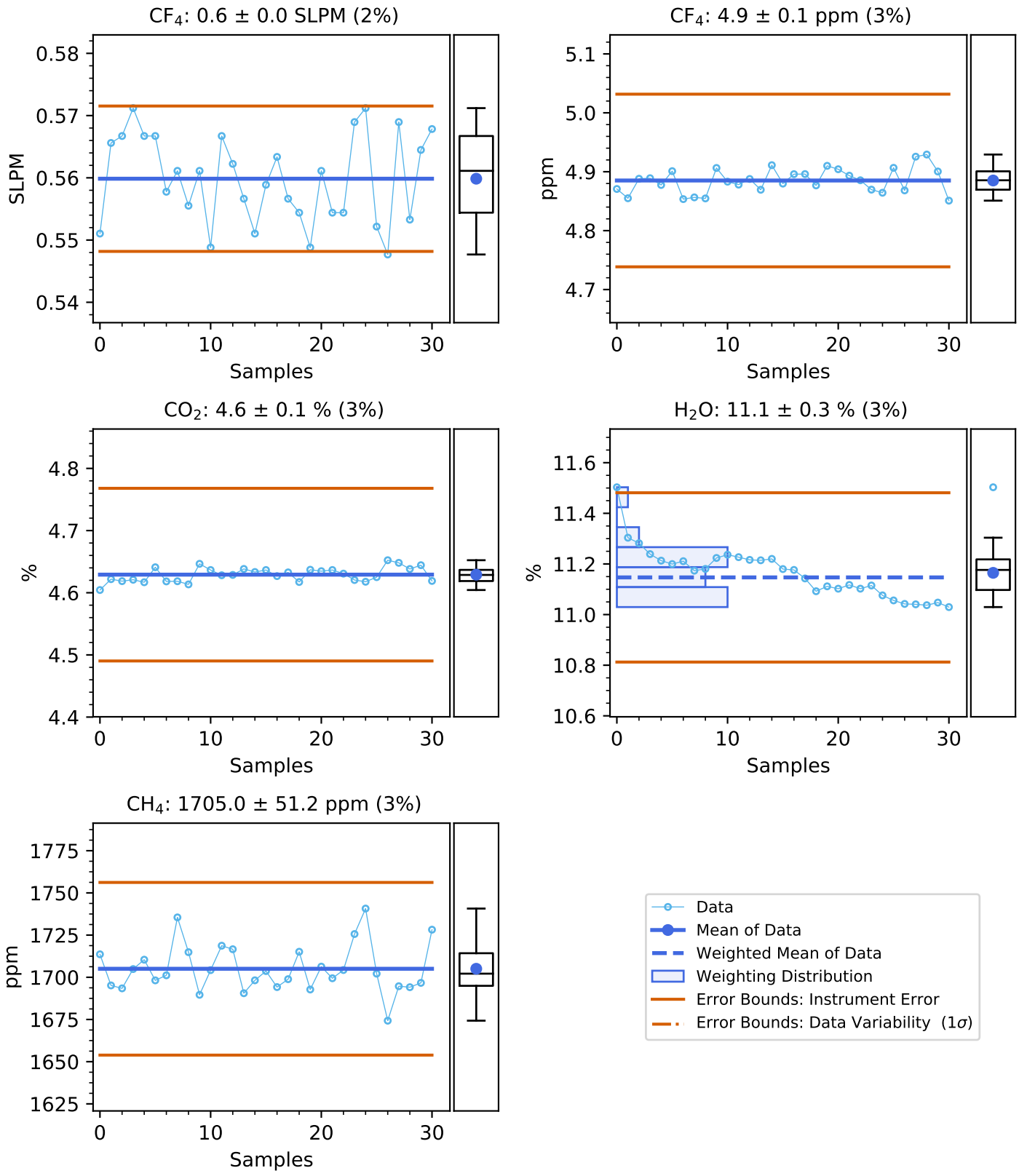
Facility: 2833 Unit: 2 Test: 1



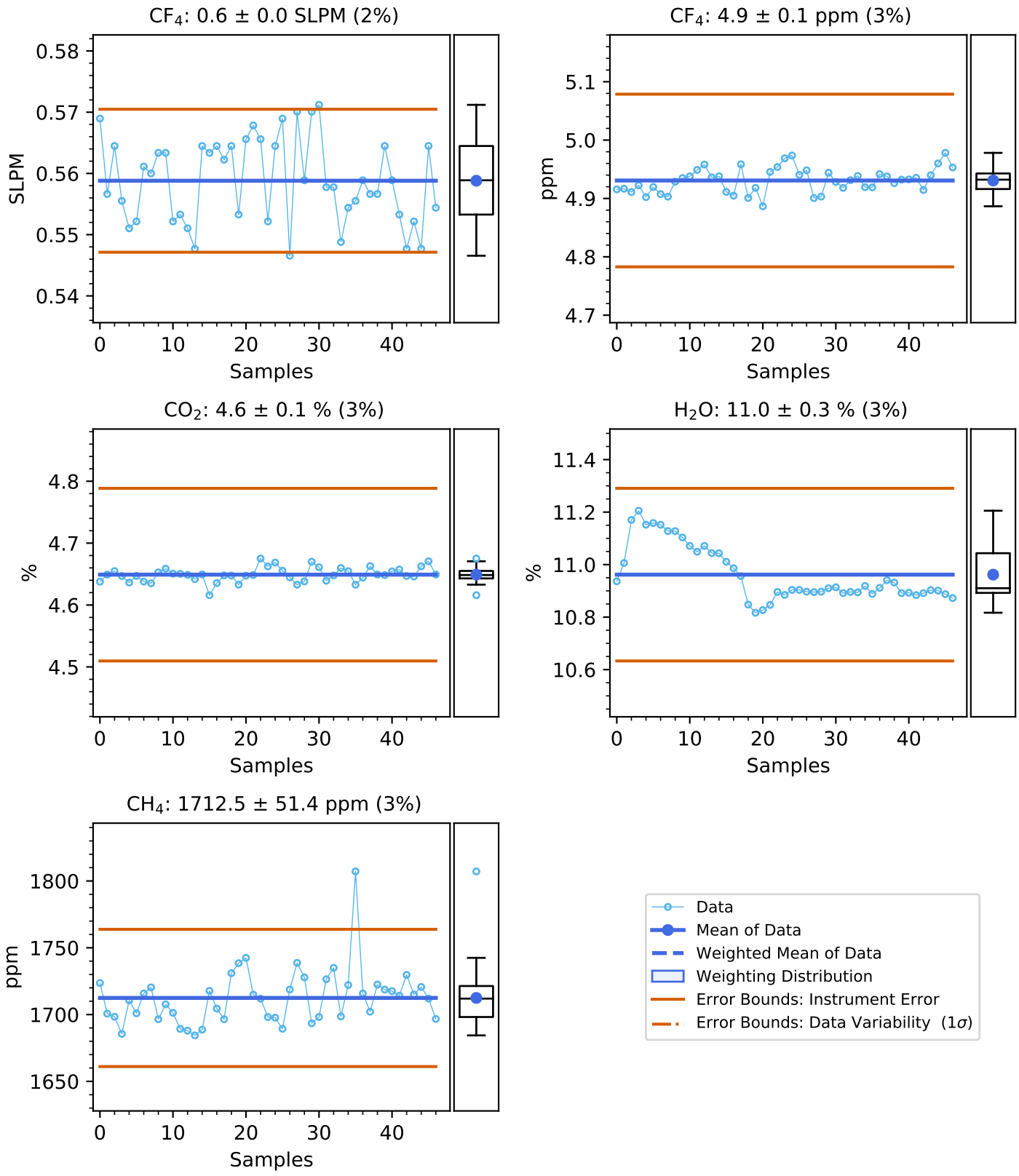
Facility: 2833 Unit: 2 Test: 2



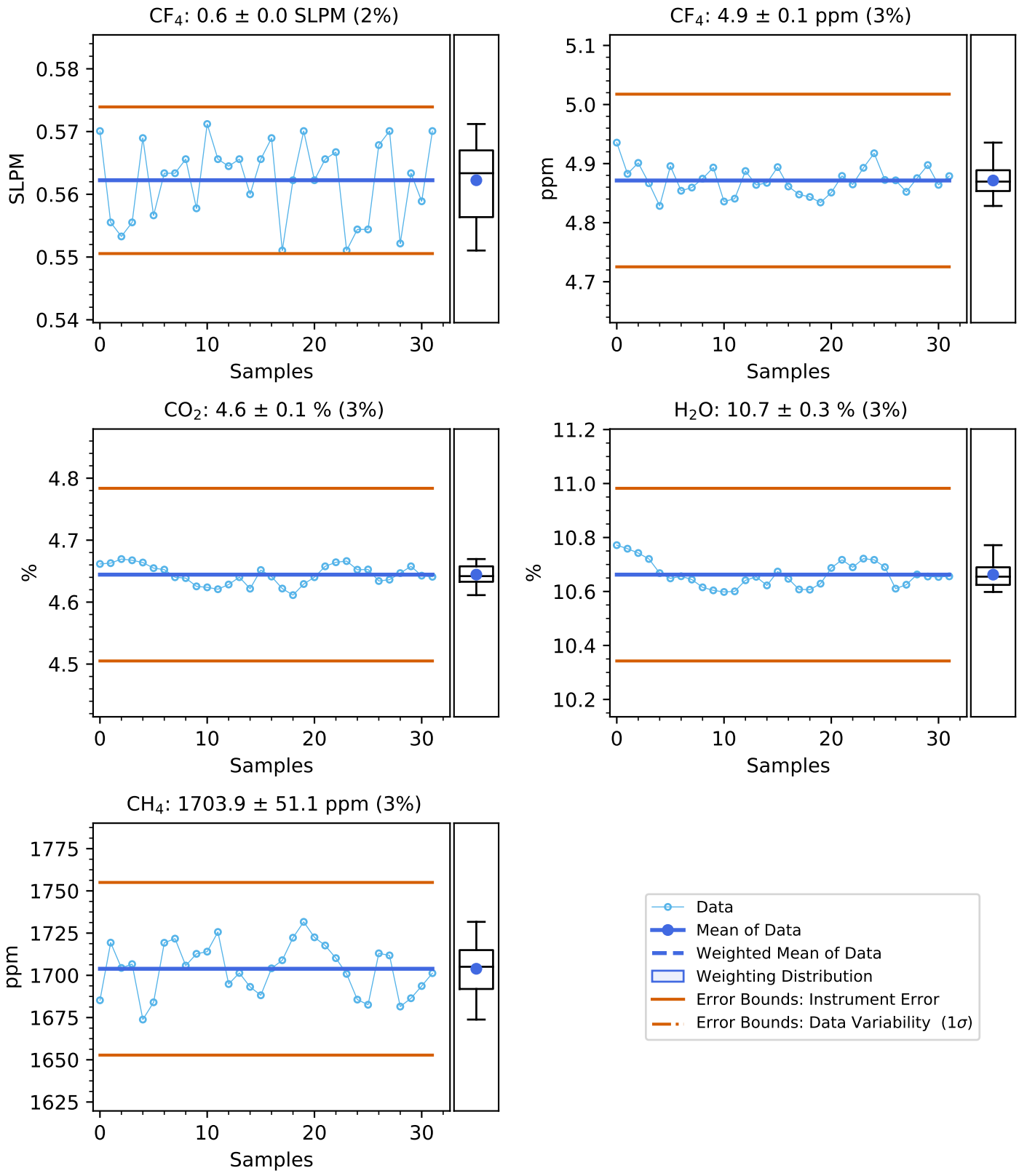
Facility: 2833 Unit: 2 Test: 3



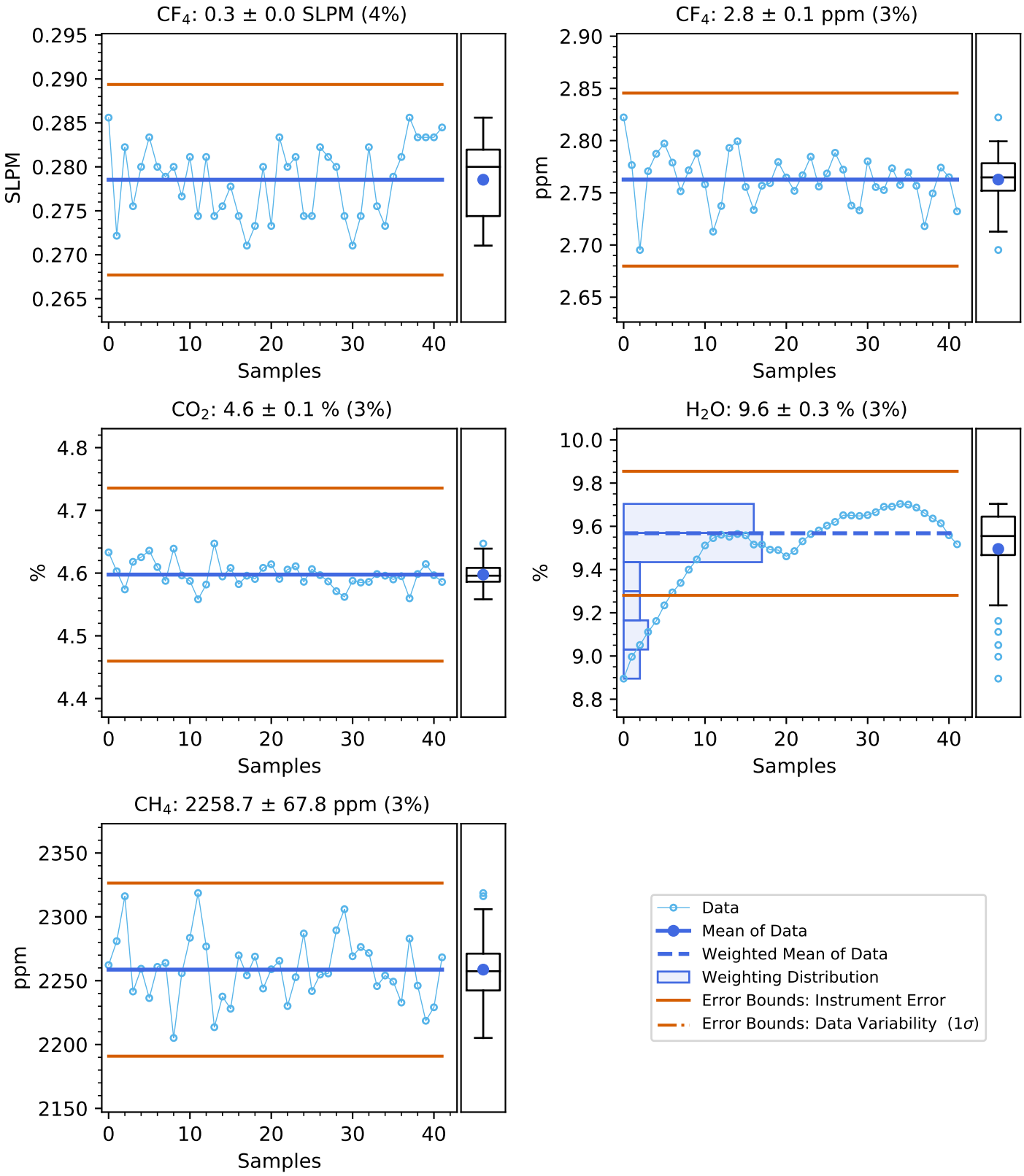
Facility: 2833 Unit: 2 Test: 4



Facility: 2833 Unit: 2 Test: 5



Facility: 2833 Unit: 3 Test: 1



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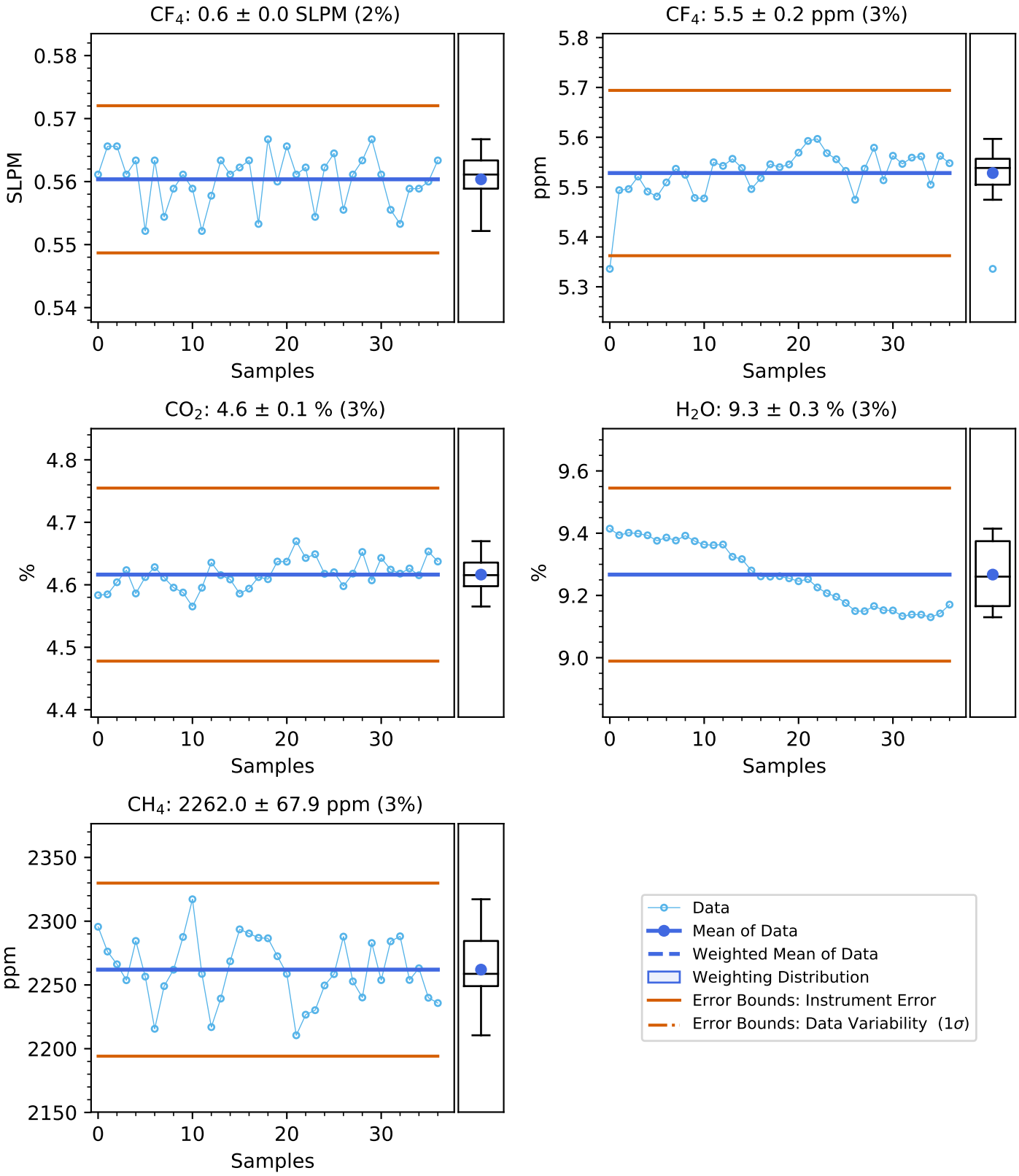
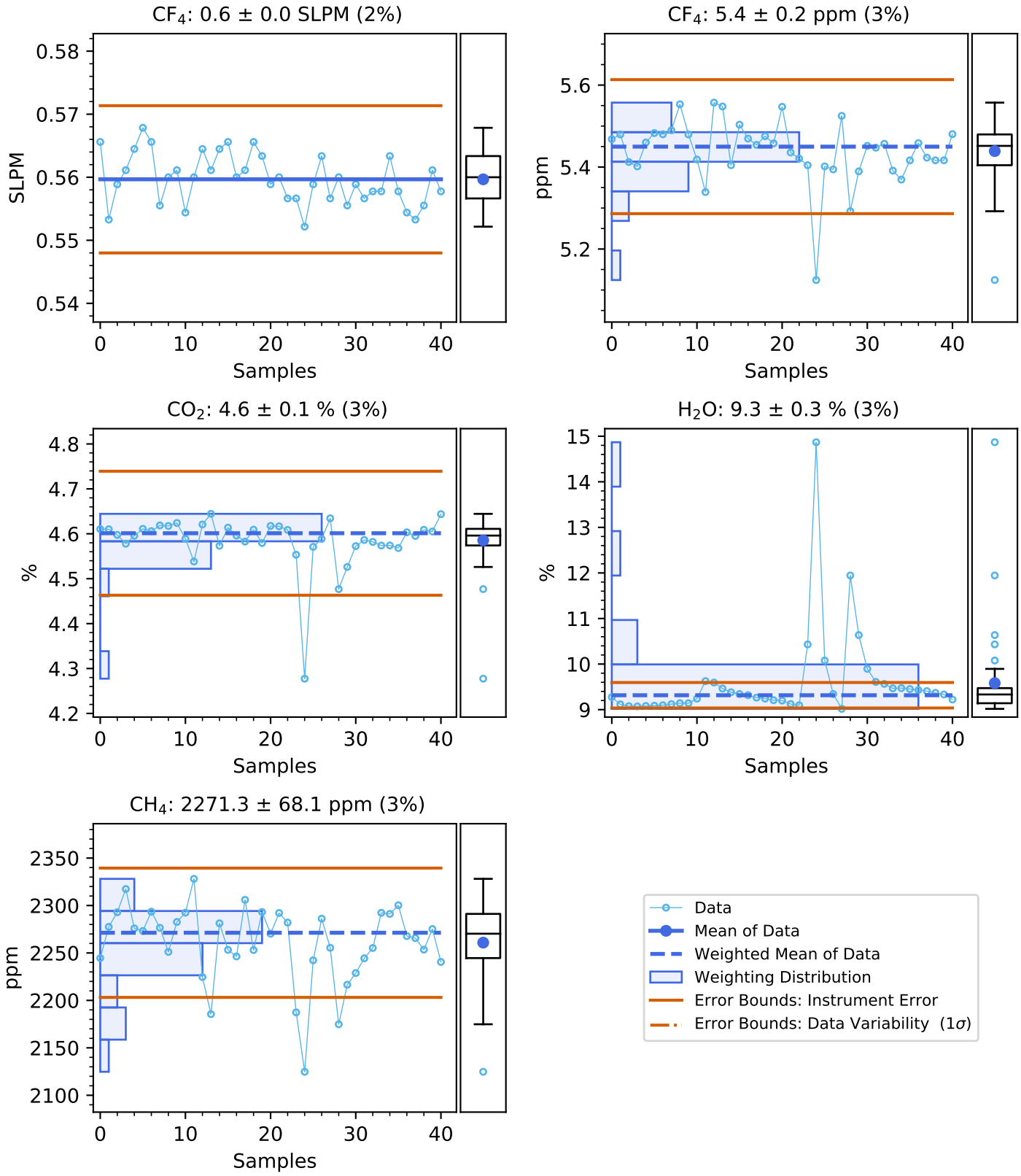
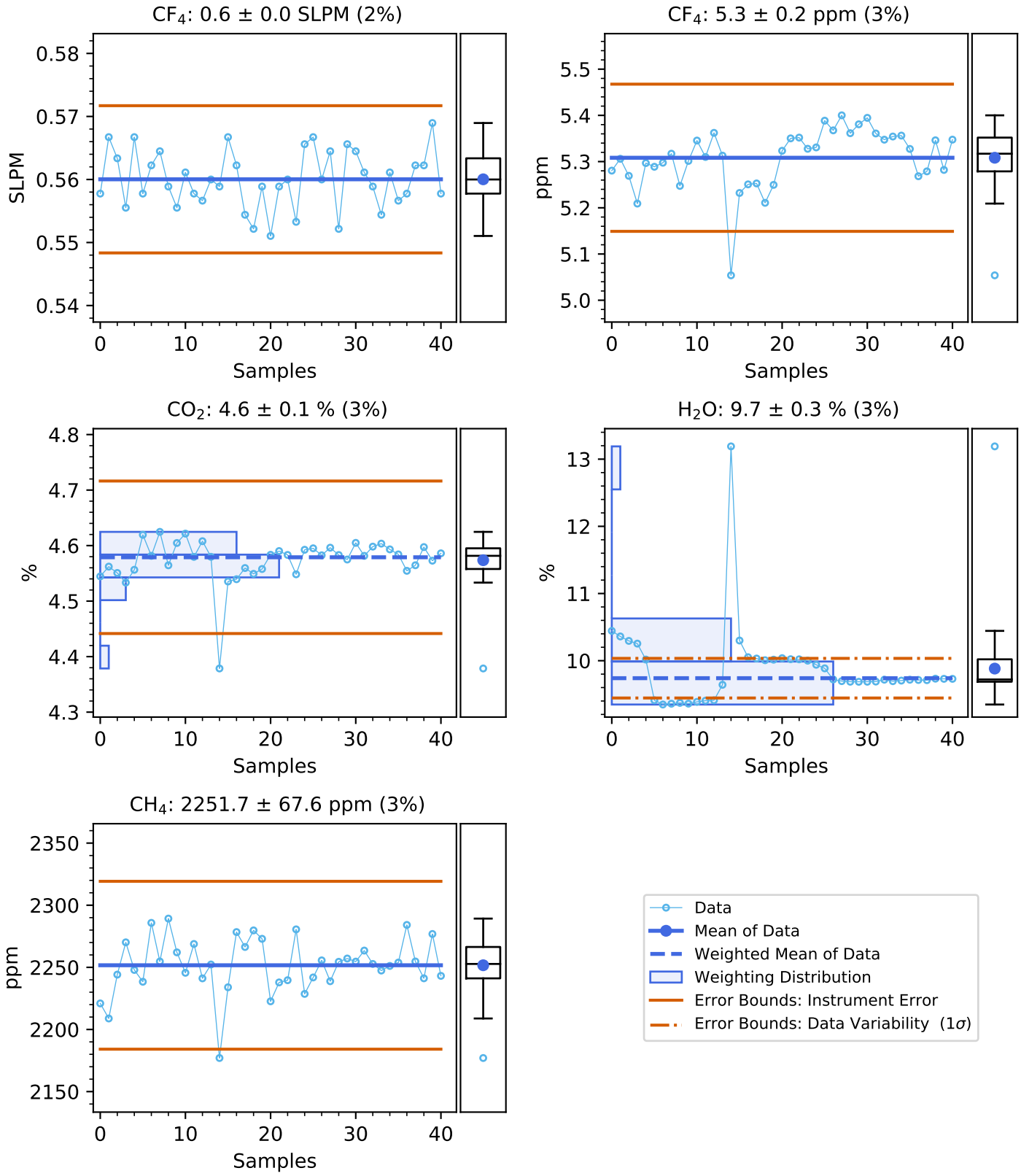


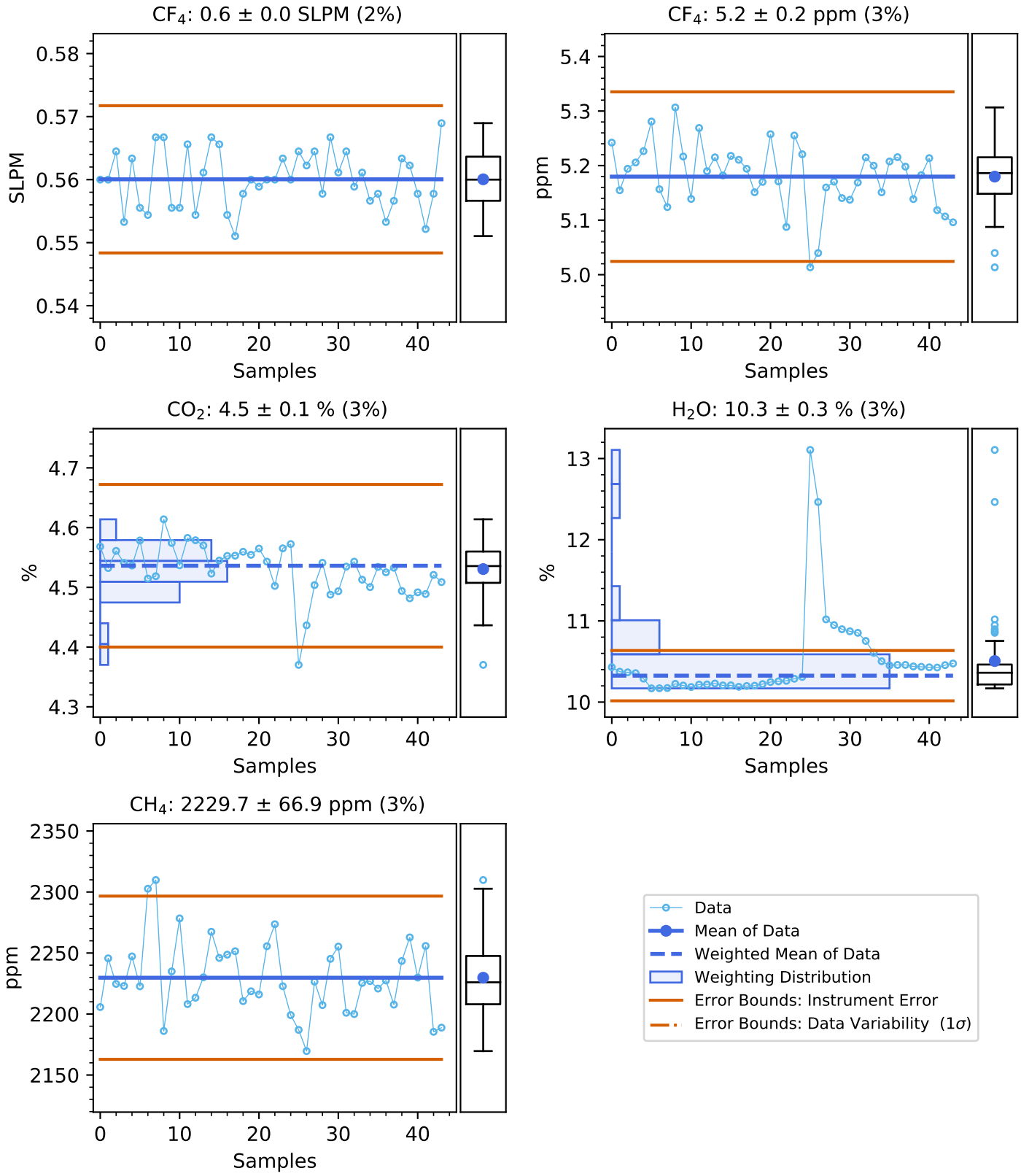
Facility: 2833 Unit: 3 Test: 3



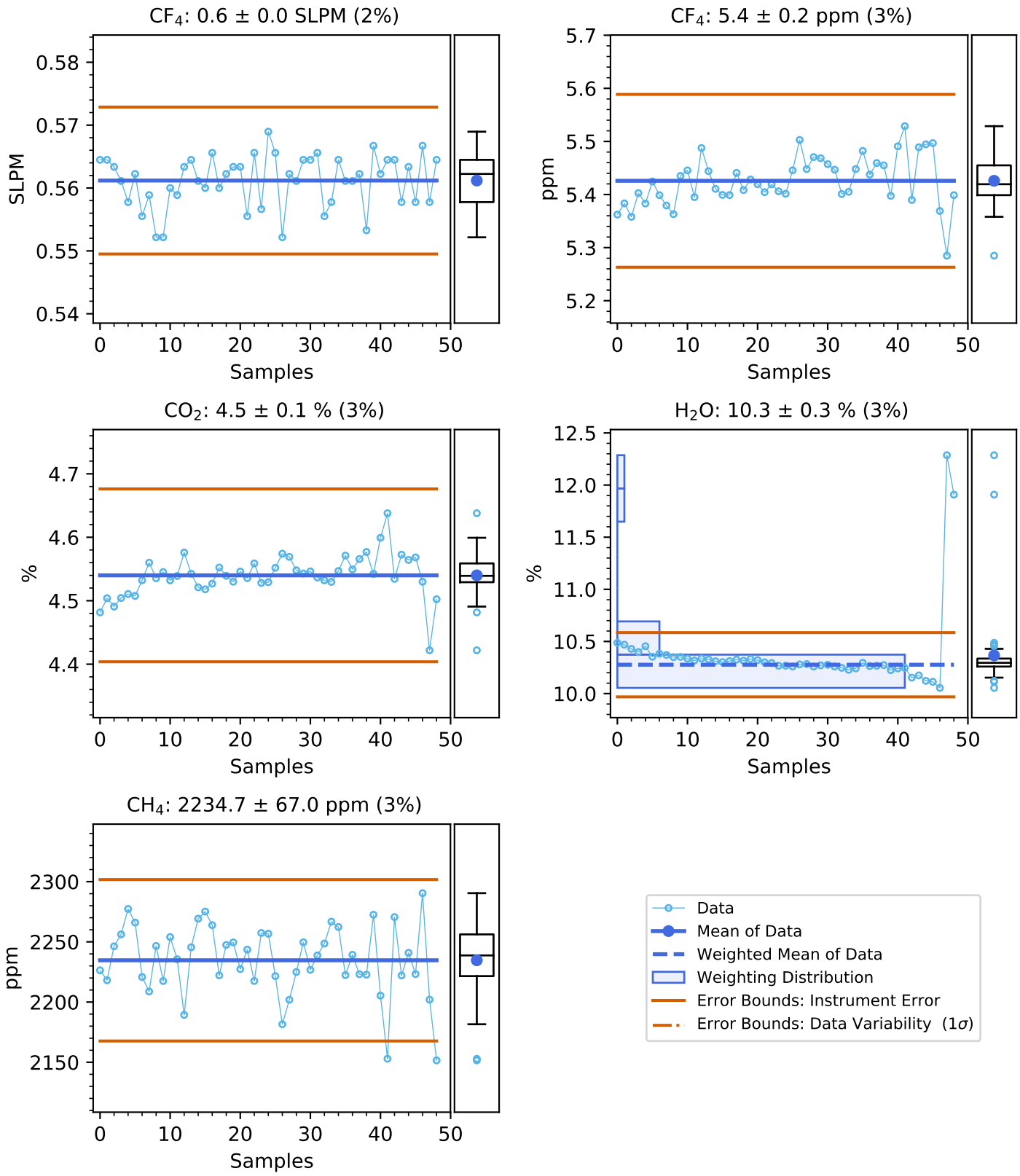
Facility: 2833 Unit: 3 Test: 4



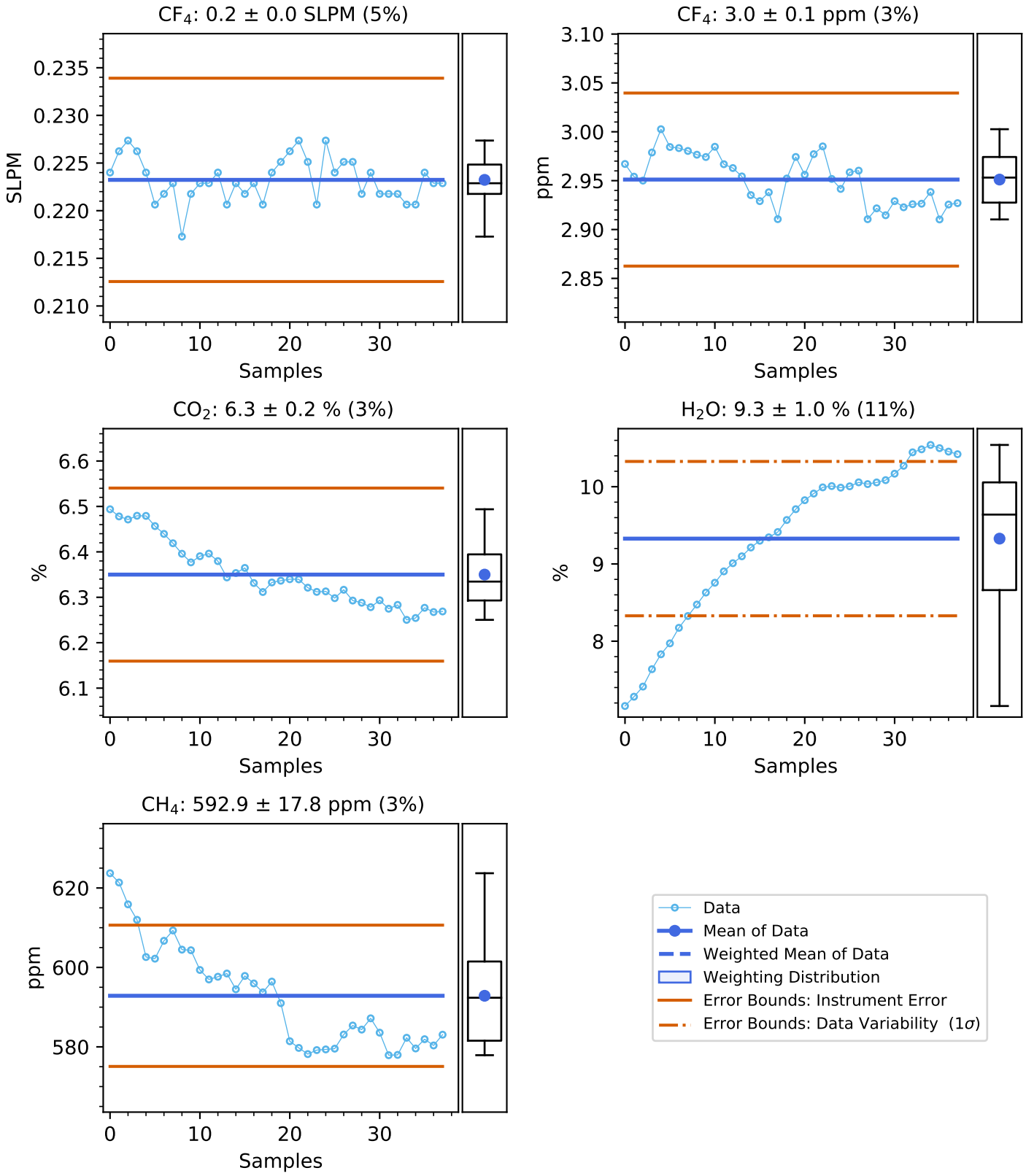
Facility: 2833 Unit: 3 Test: 5



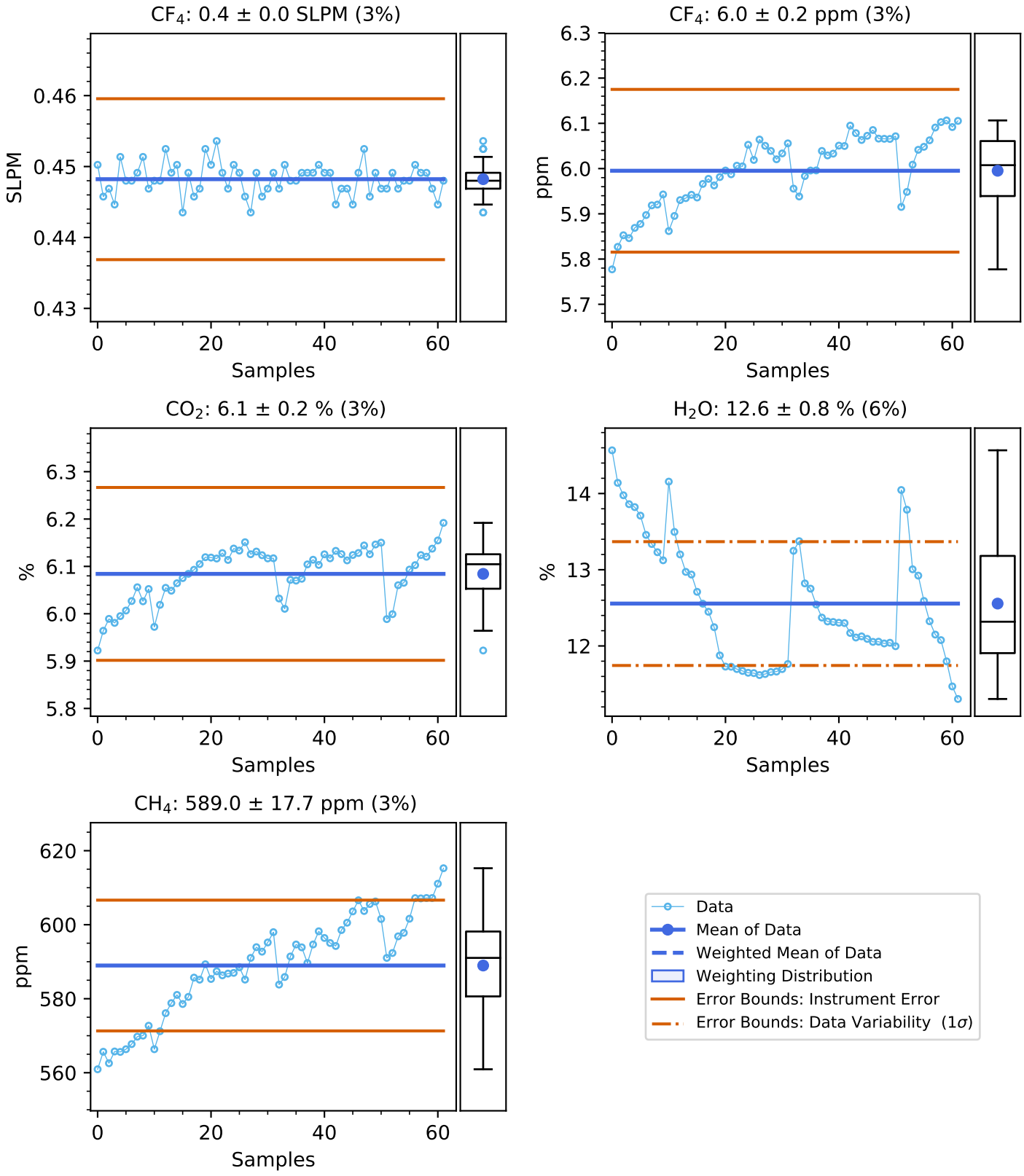
Facility: 2833 Unit: 3 Test: 6



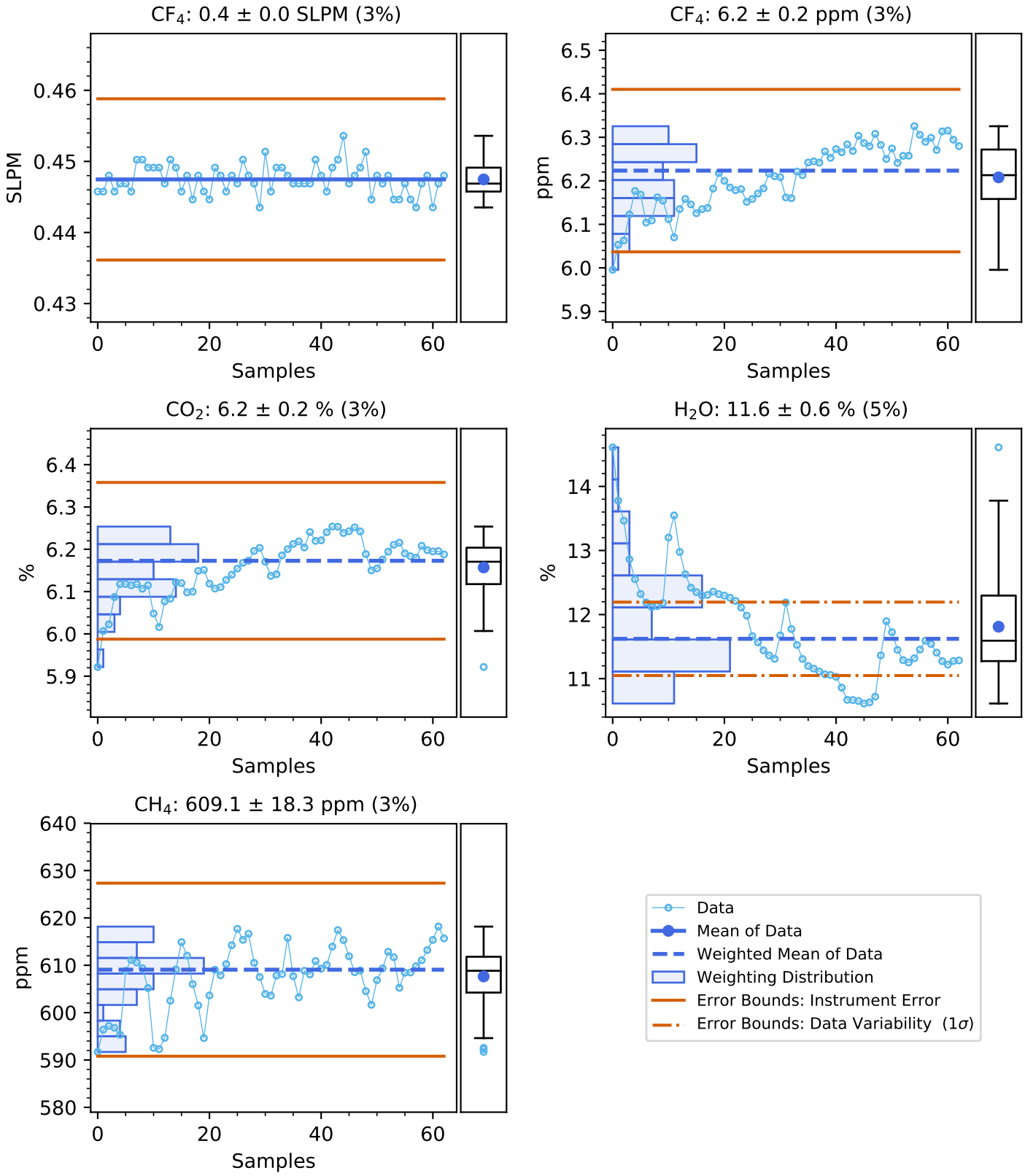
Facility: 2268 Unit: 1 Test: 1



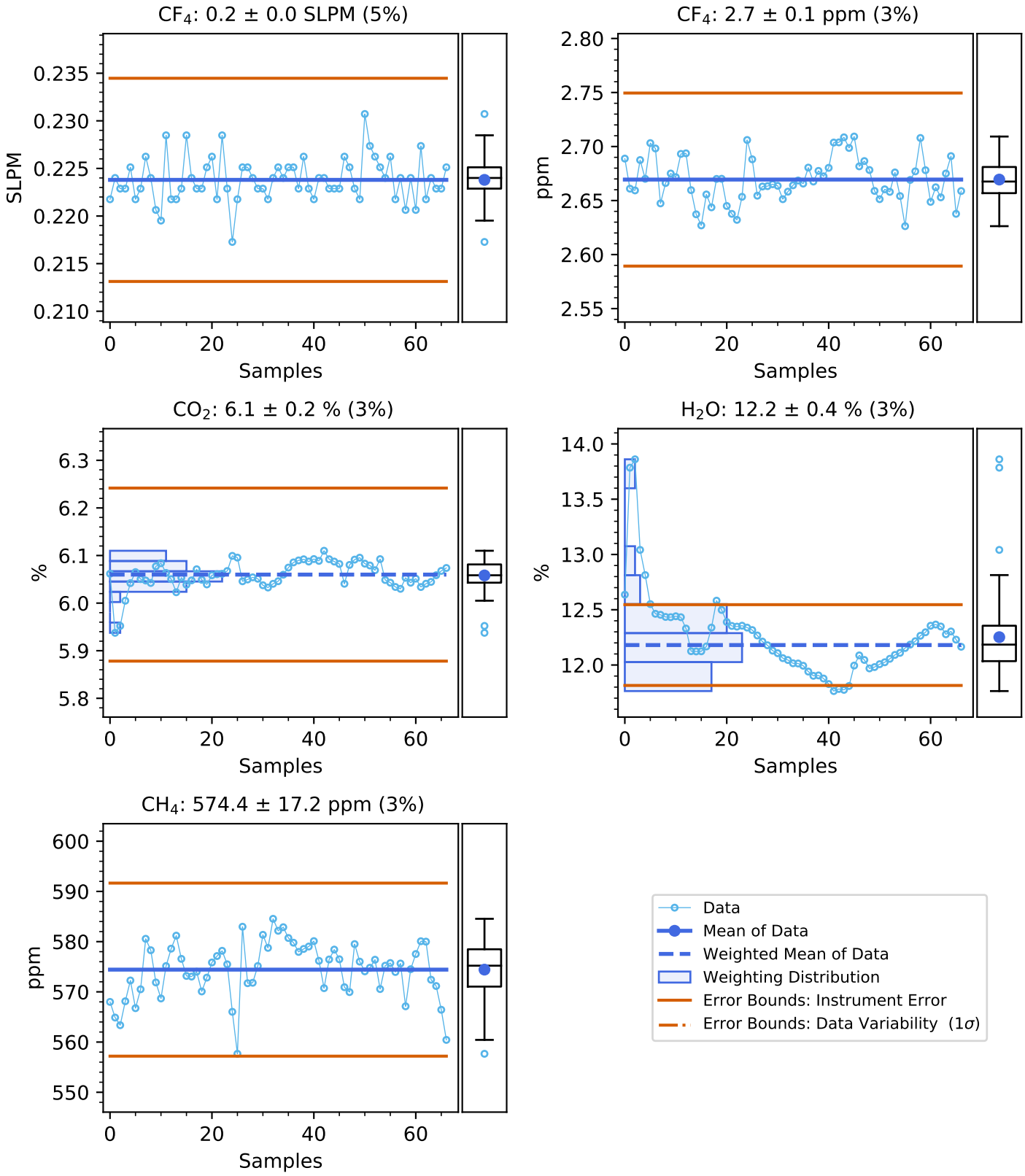
Facility: 2268 Unit: 1 Test: 2



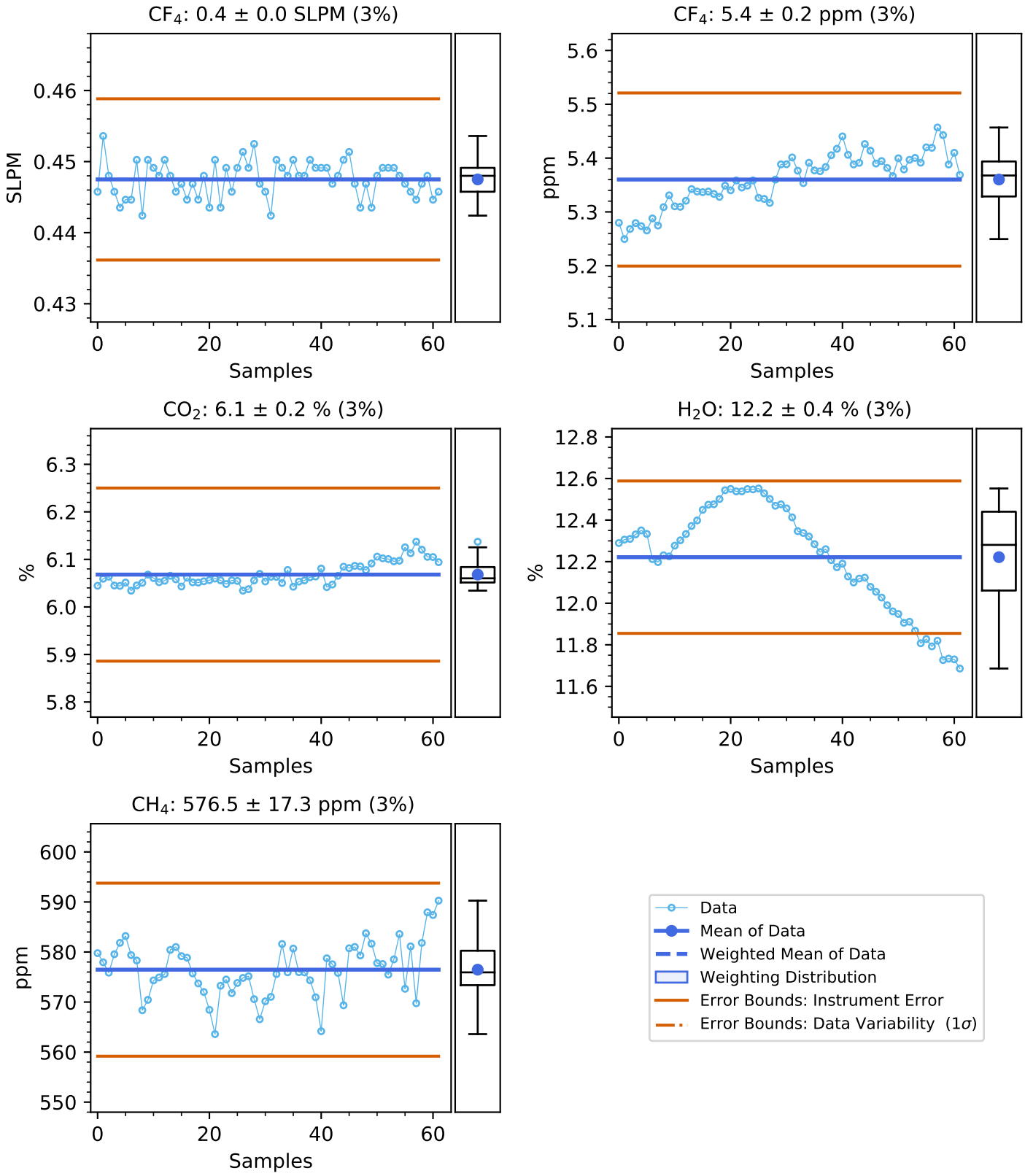
Facility: 2268 Unit: 1 Test: 3



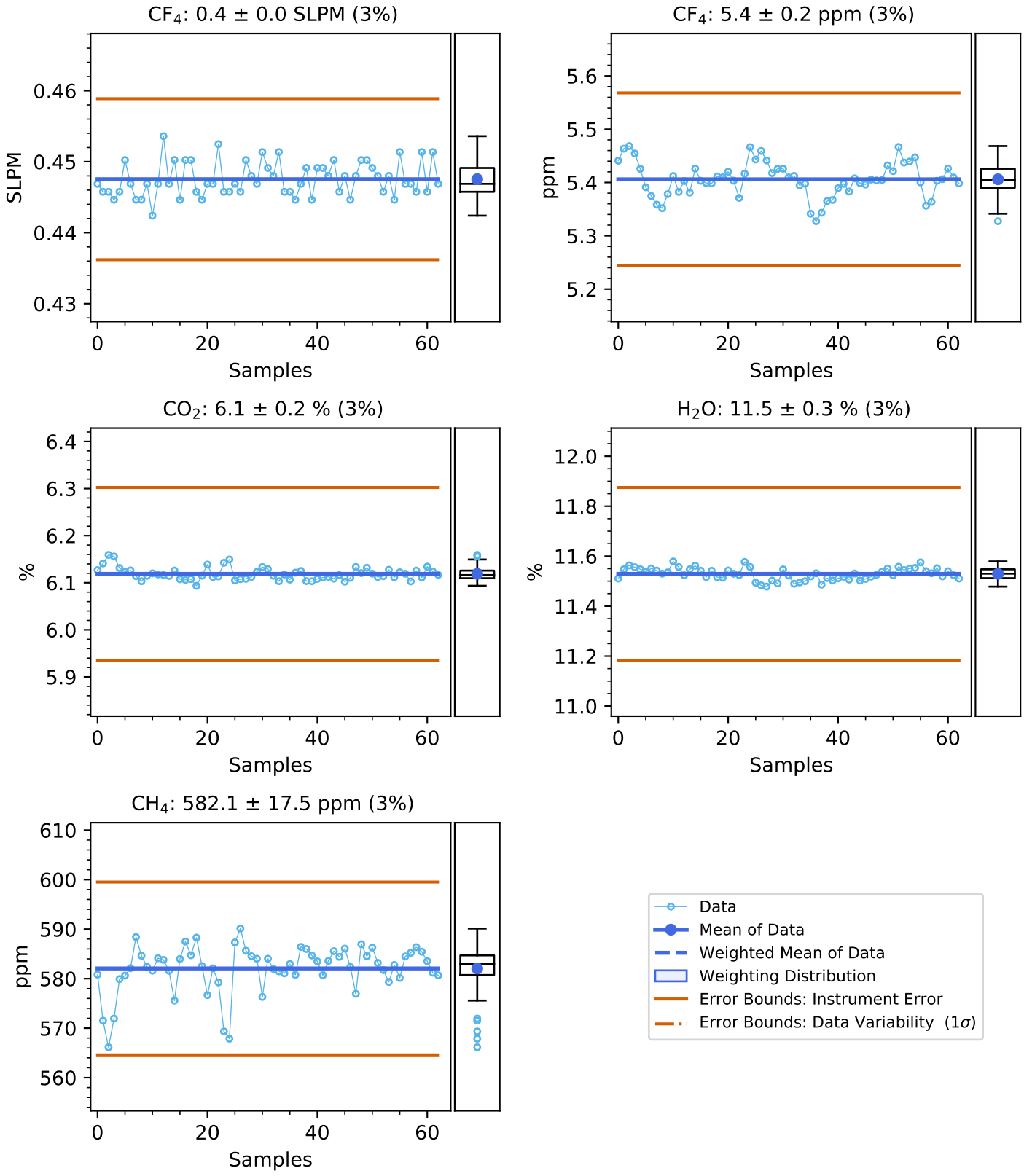
Facility: 2268 Unit: 2 Test: 1



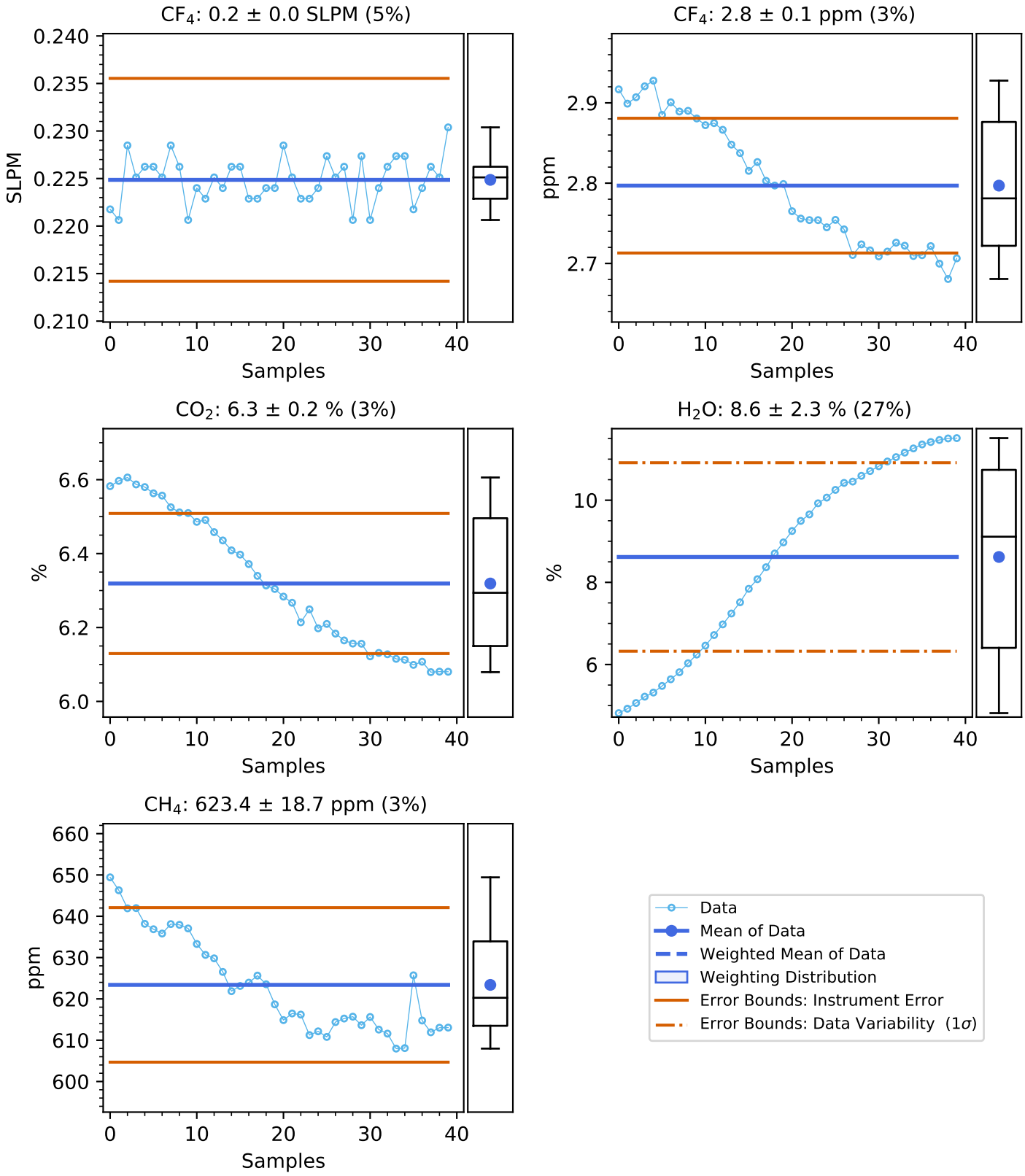
Facility: 2268 Unit: 2 Test: 2



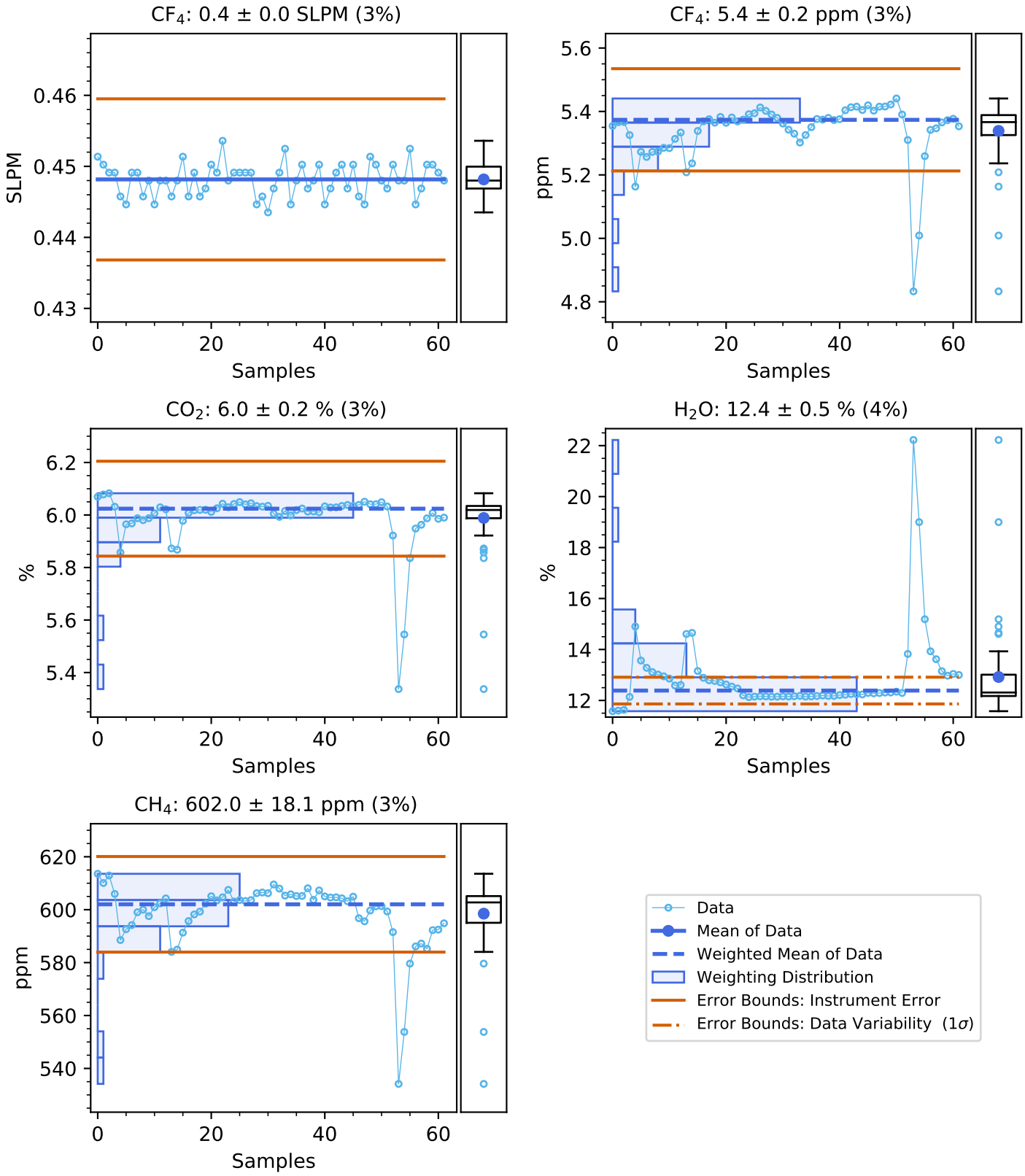
Facility: 2268 Unit: 2 Test: 3



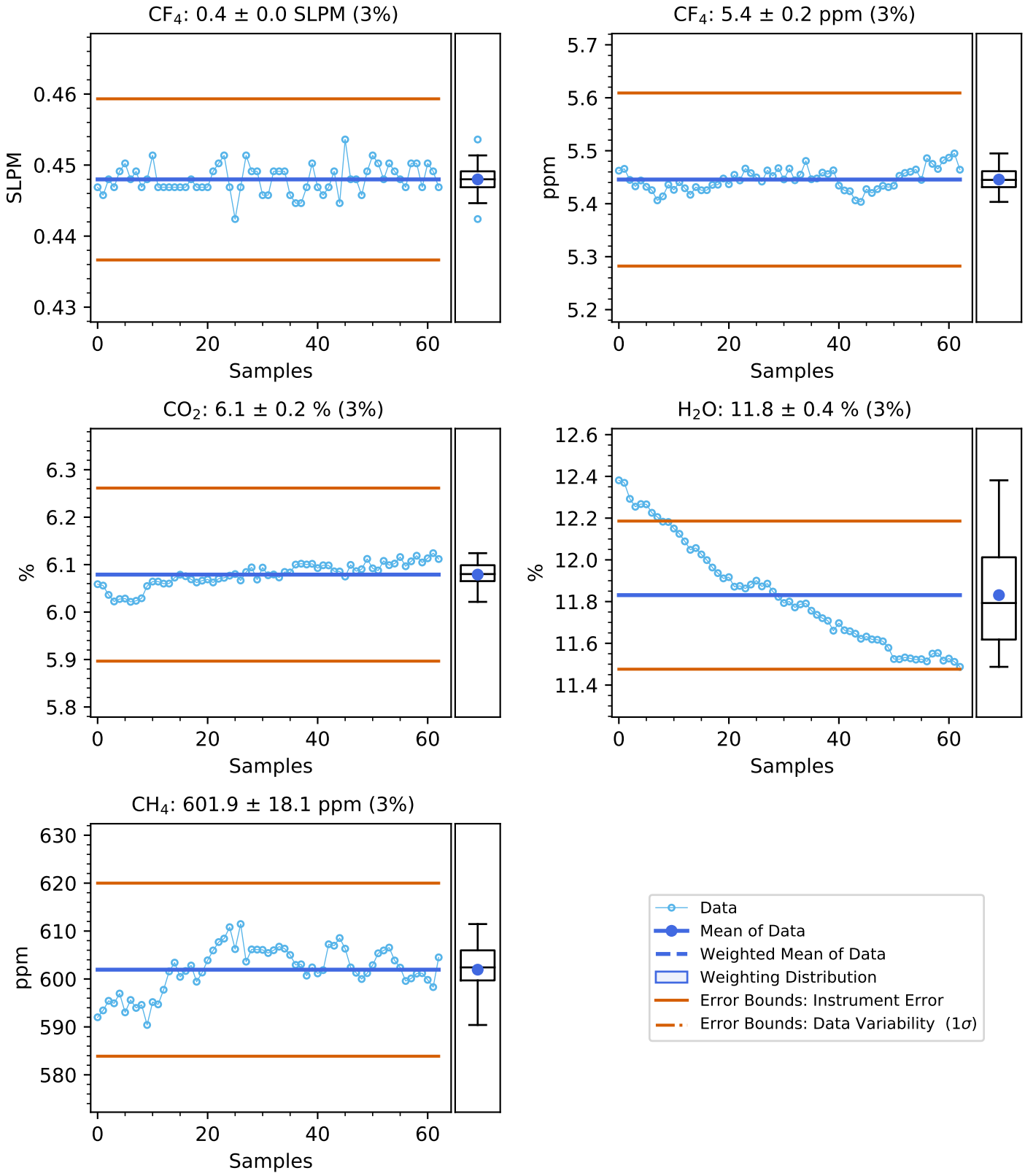
Facility: 2268 Unit: 3 Test: 1



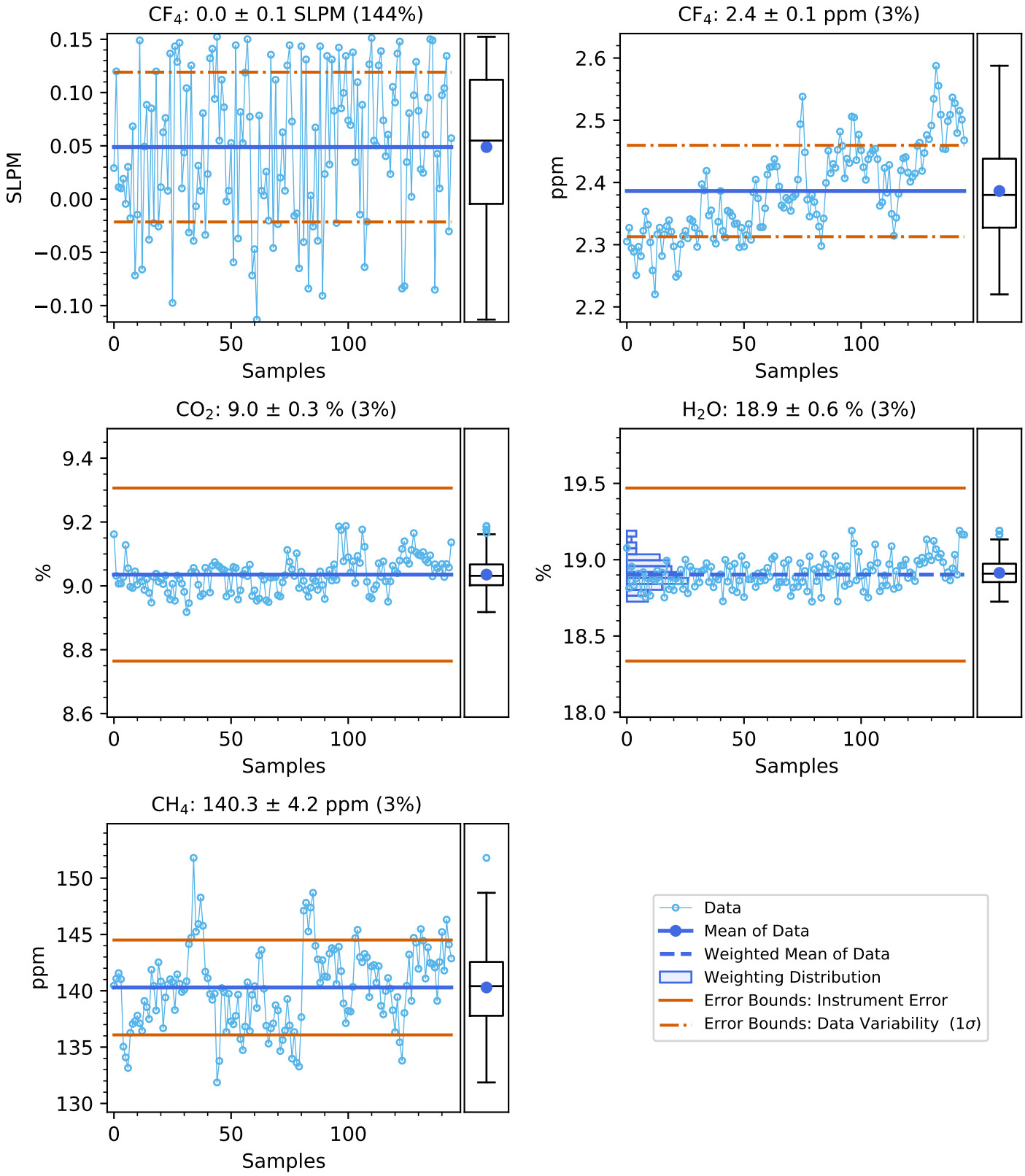
Facility: 2268 Unit: 3 Test: 2



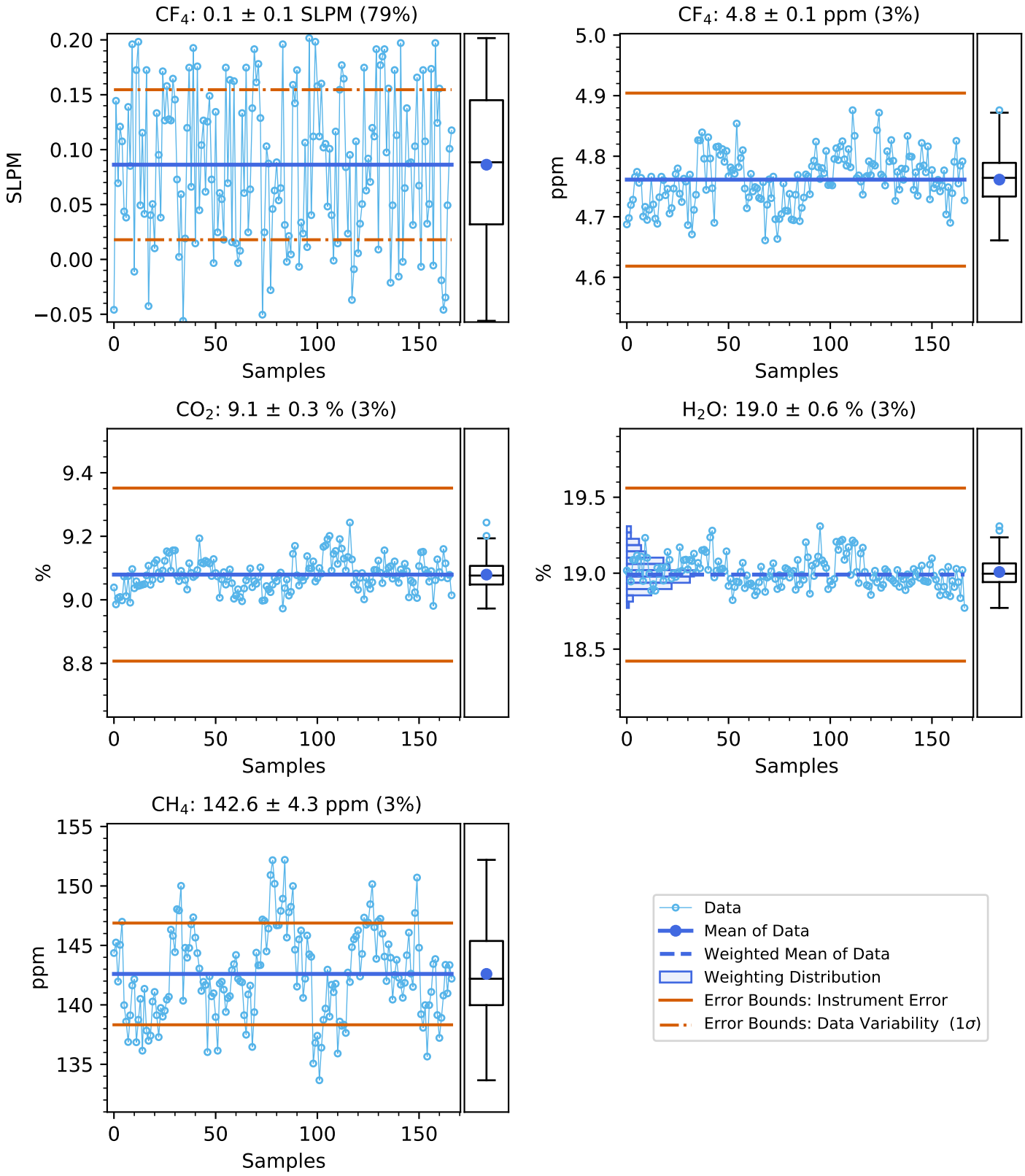
Facility: 2268 Unit: 3 Test: 3



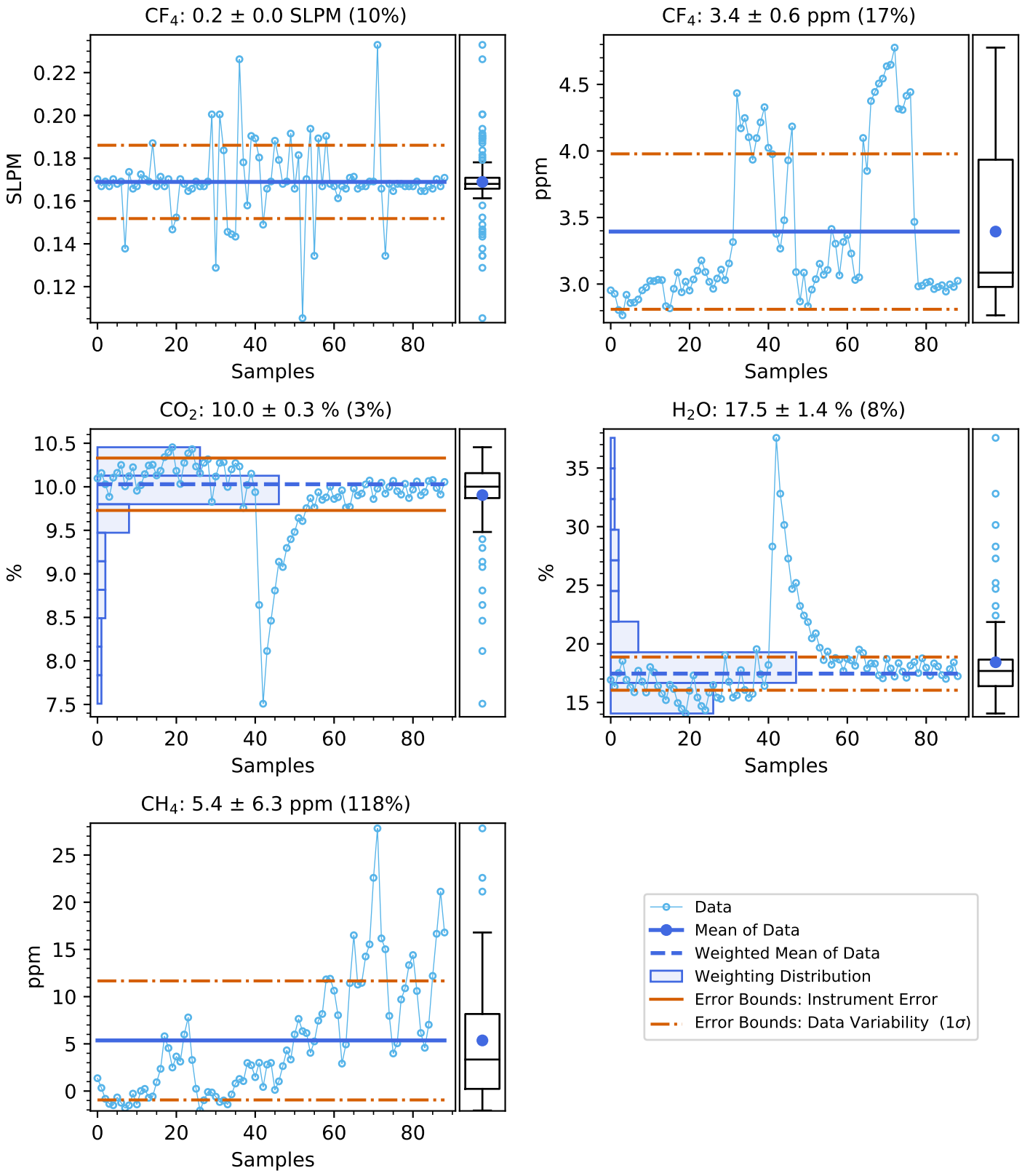
Facility: 247 Unit: 1 Test: 1



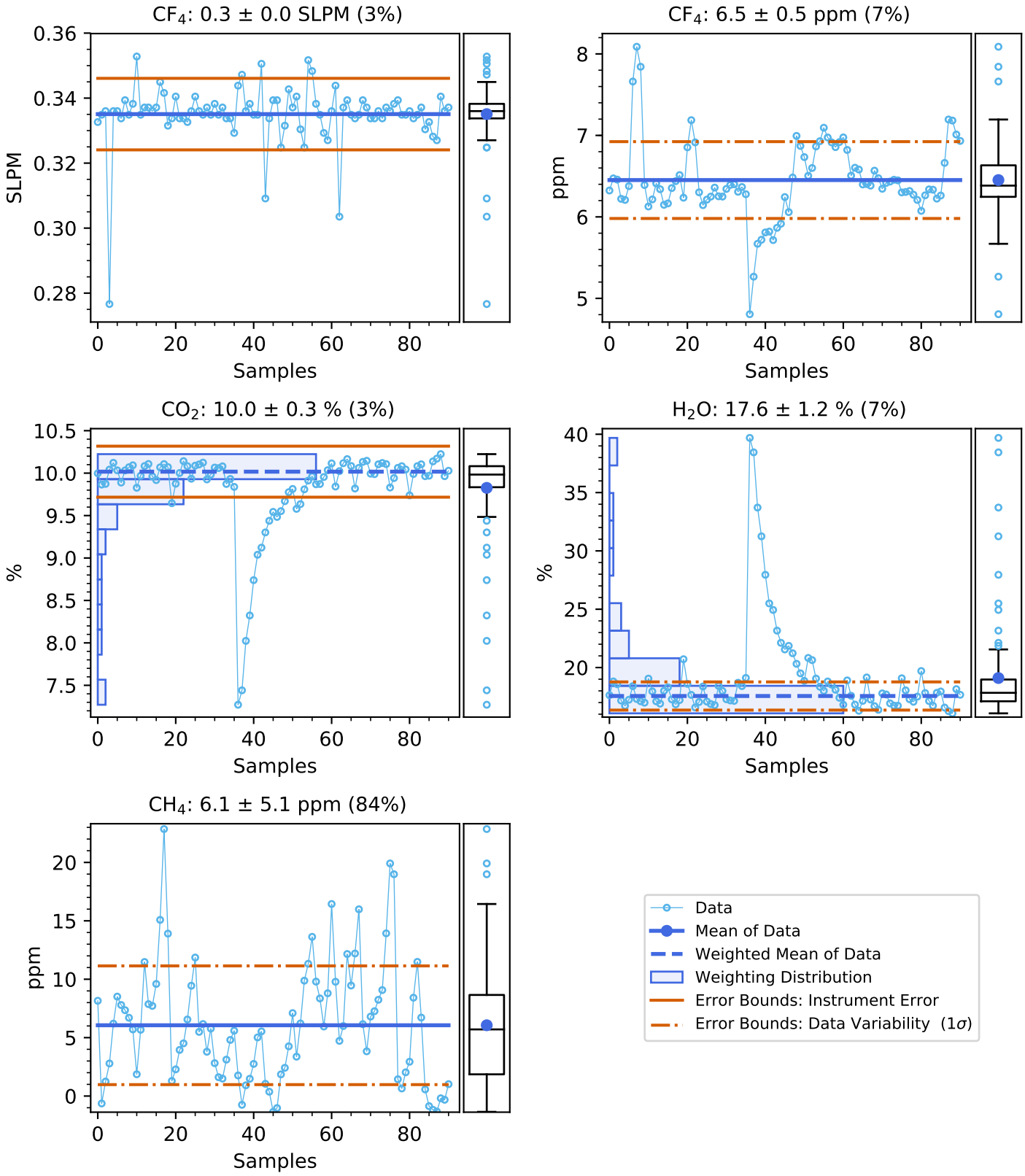
Facility: 247 Unit: 1 Test: 2



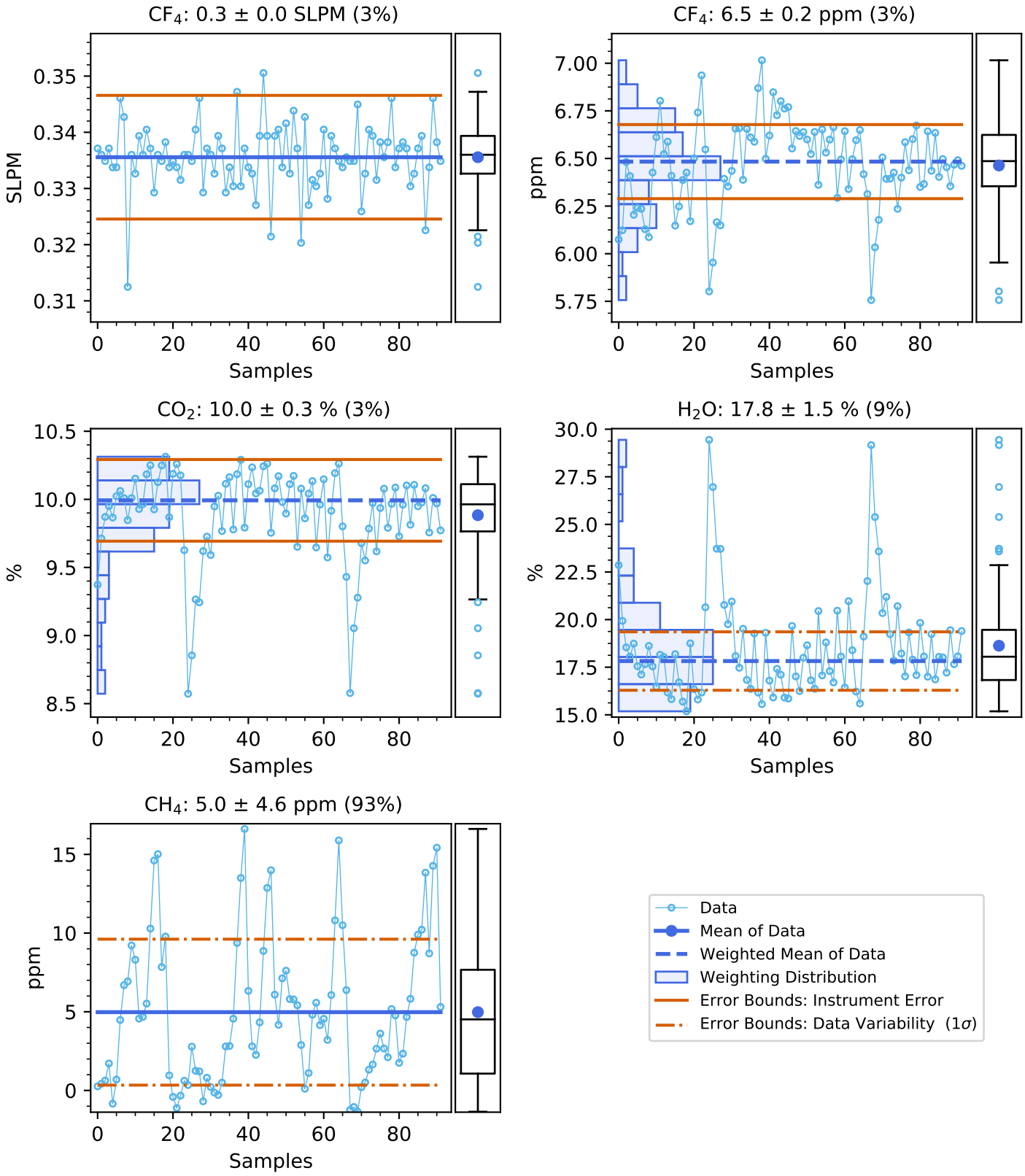
Facility: 1292 Unit: 1 Test: 1



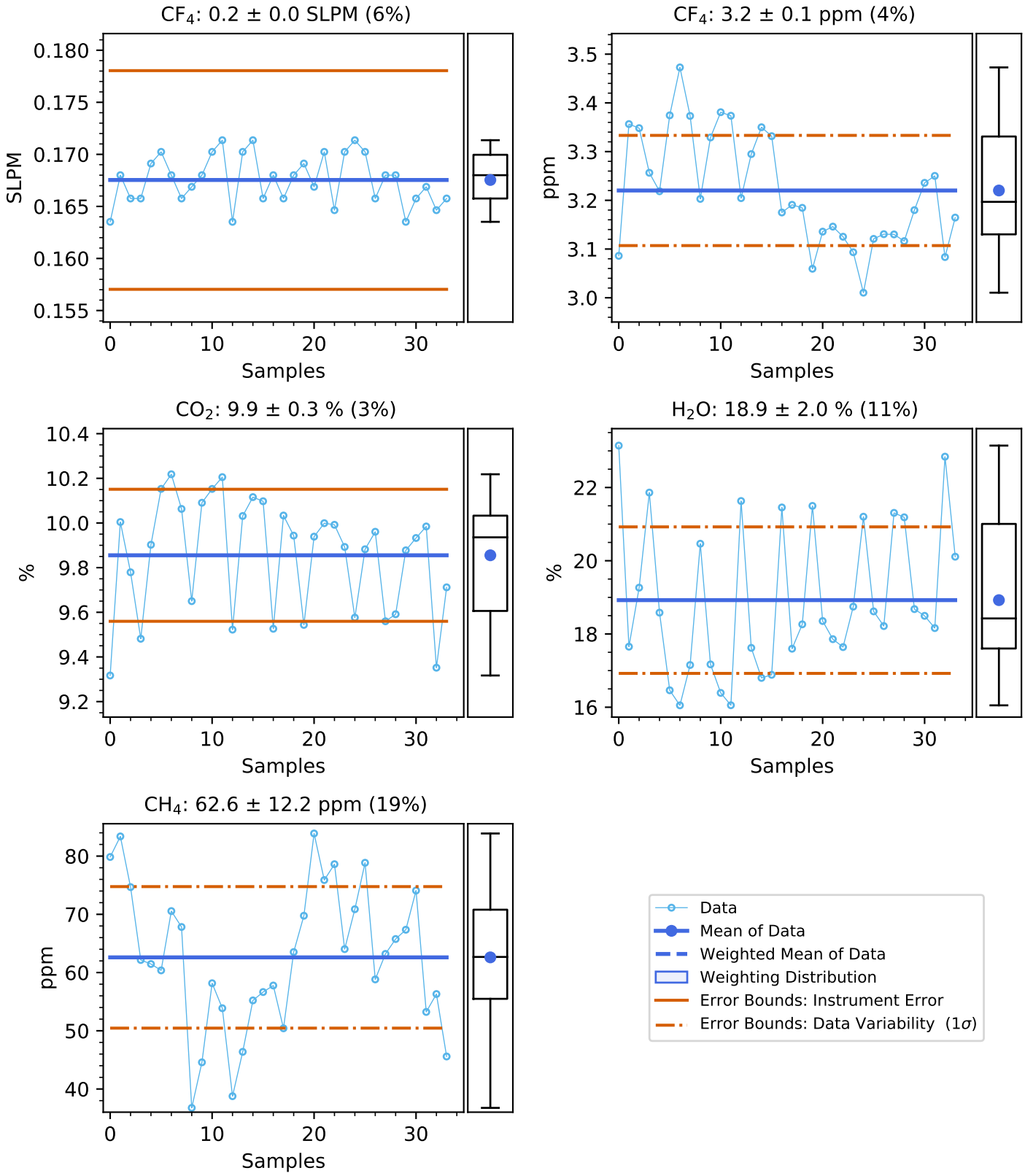
Facility: 1292 Unit: 1 Test: 2



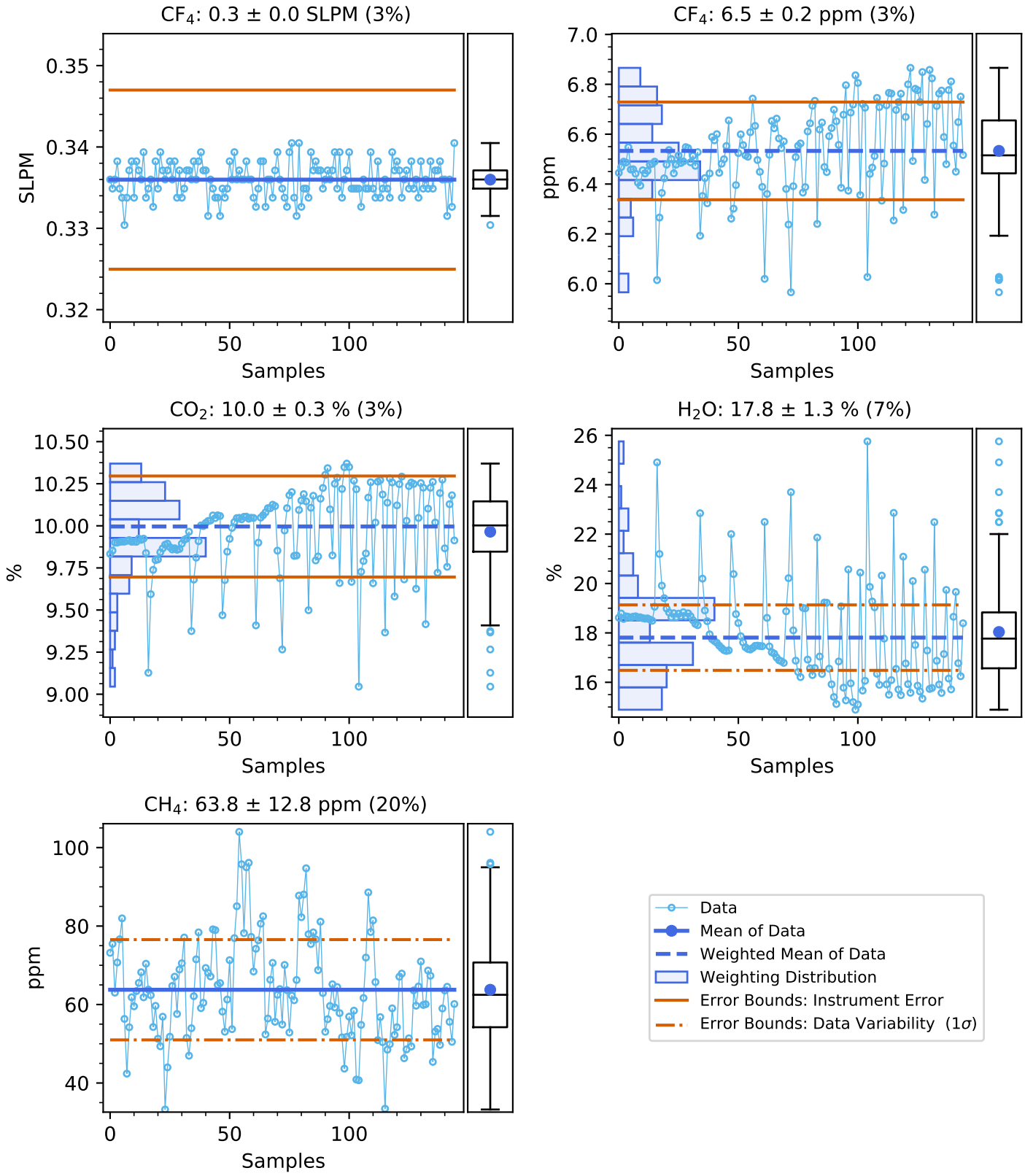
Facility: 1292 Unit: 1 Test: 3



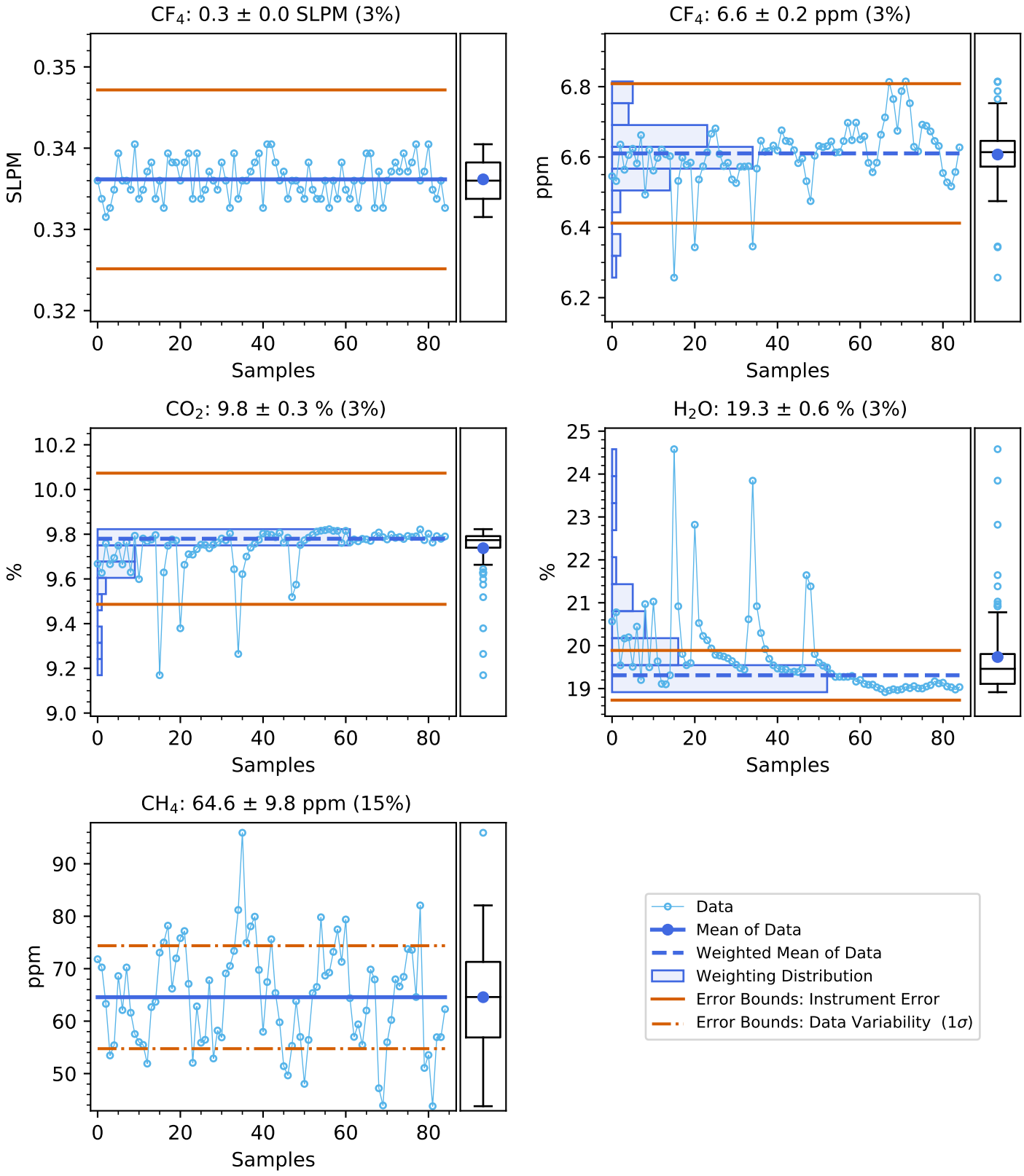
Facility: 1292 Unit: 2 Test: 1



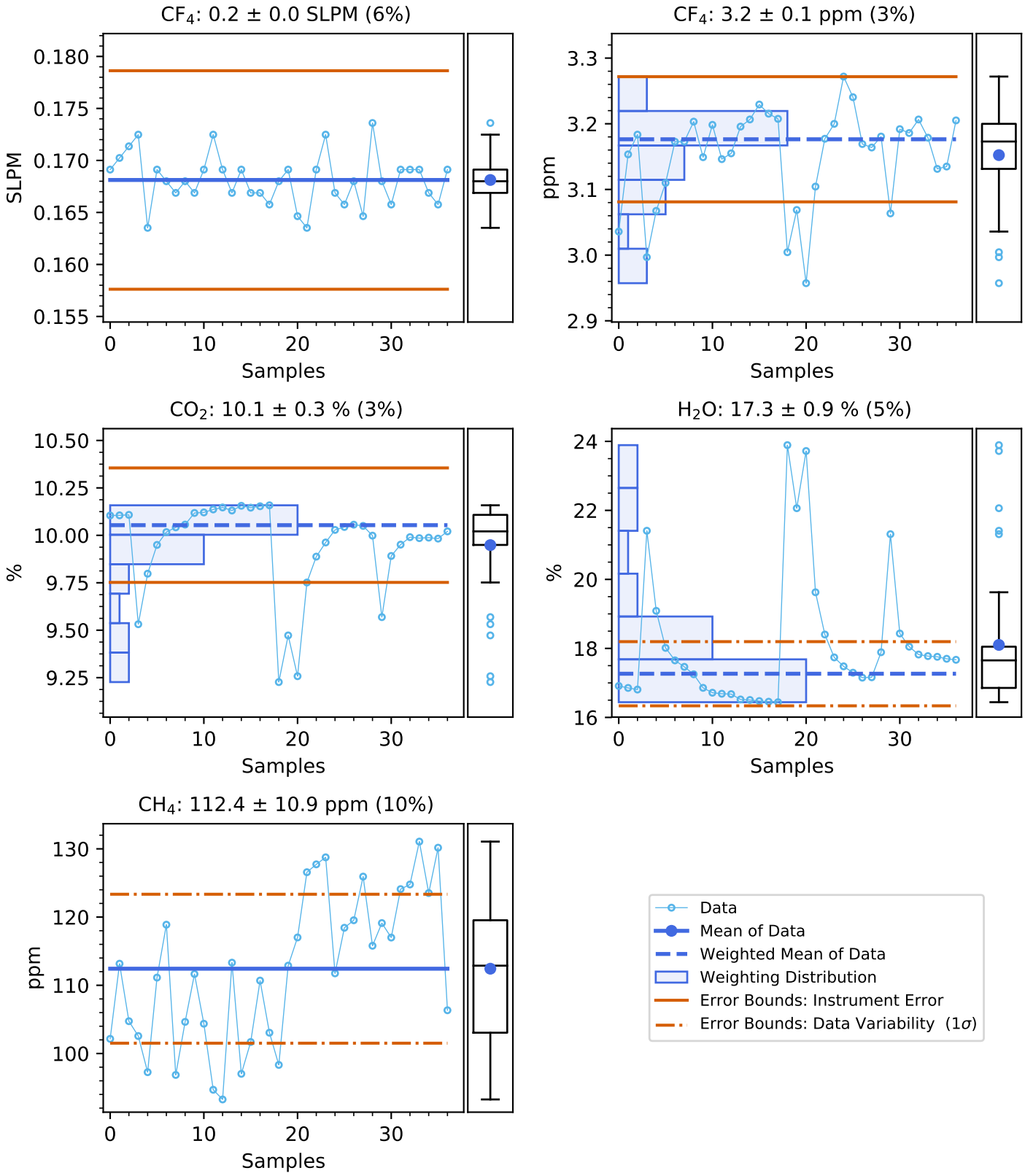
Facility: 1292 Unit: 2 Test: 2



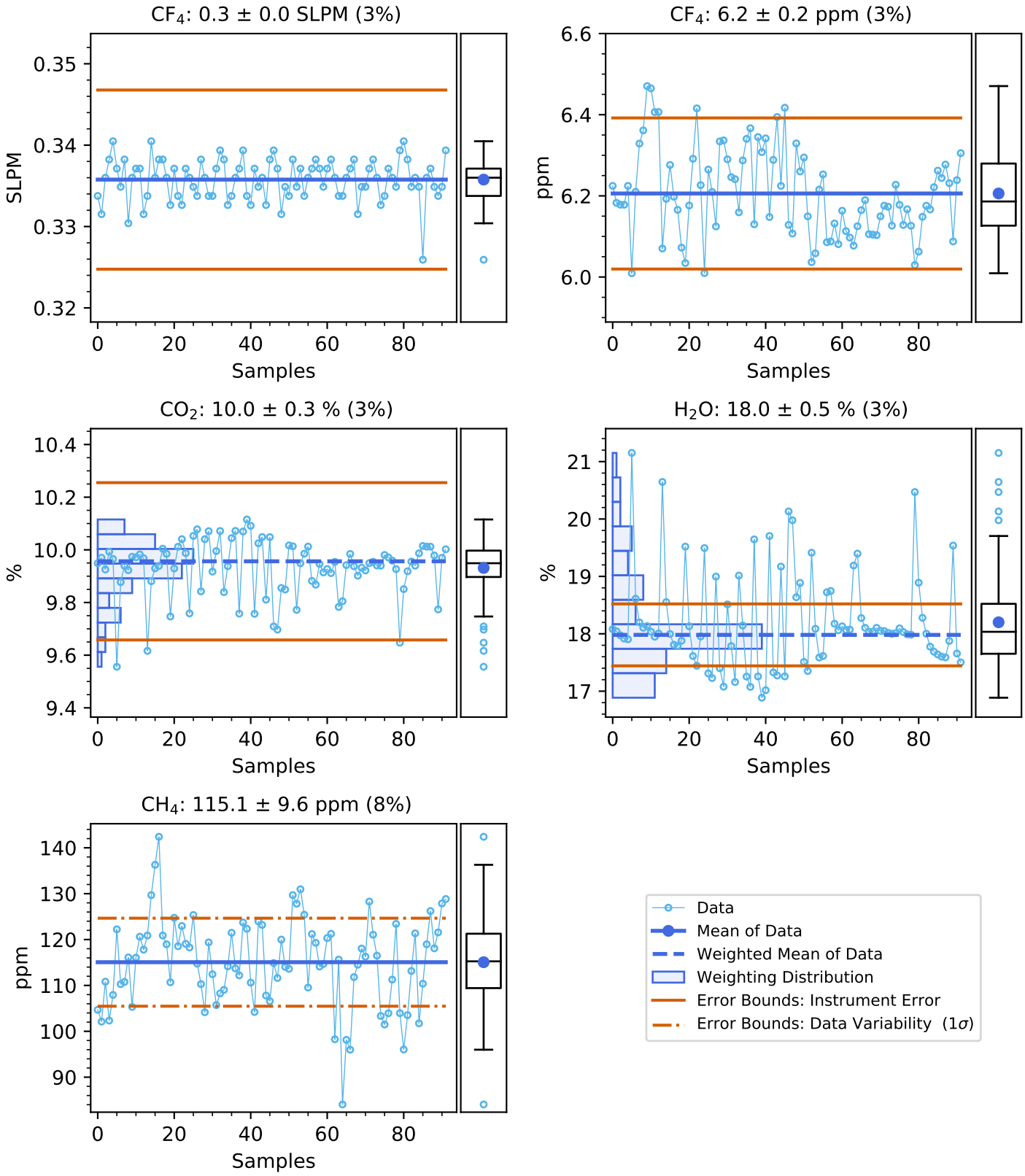
Facility: 1292 Unit: 2 Test: 3



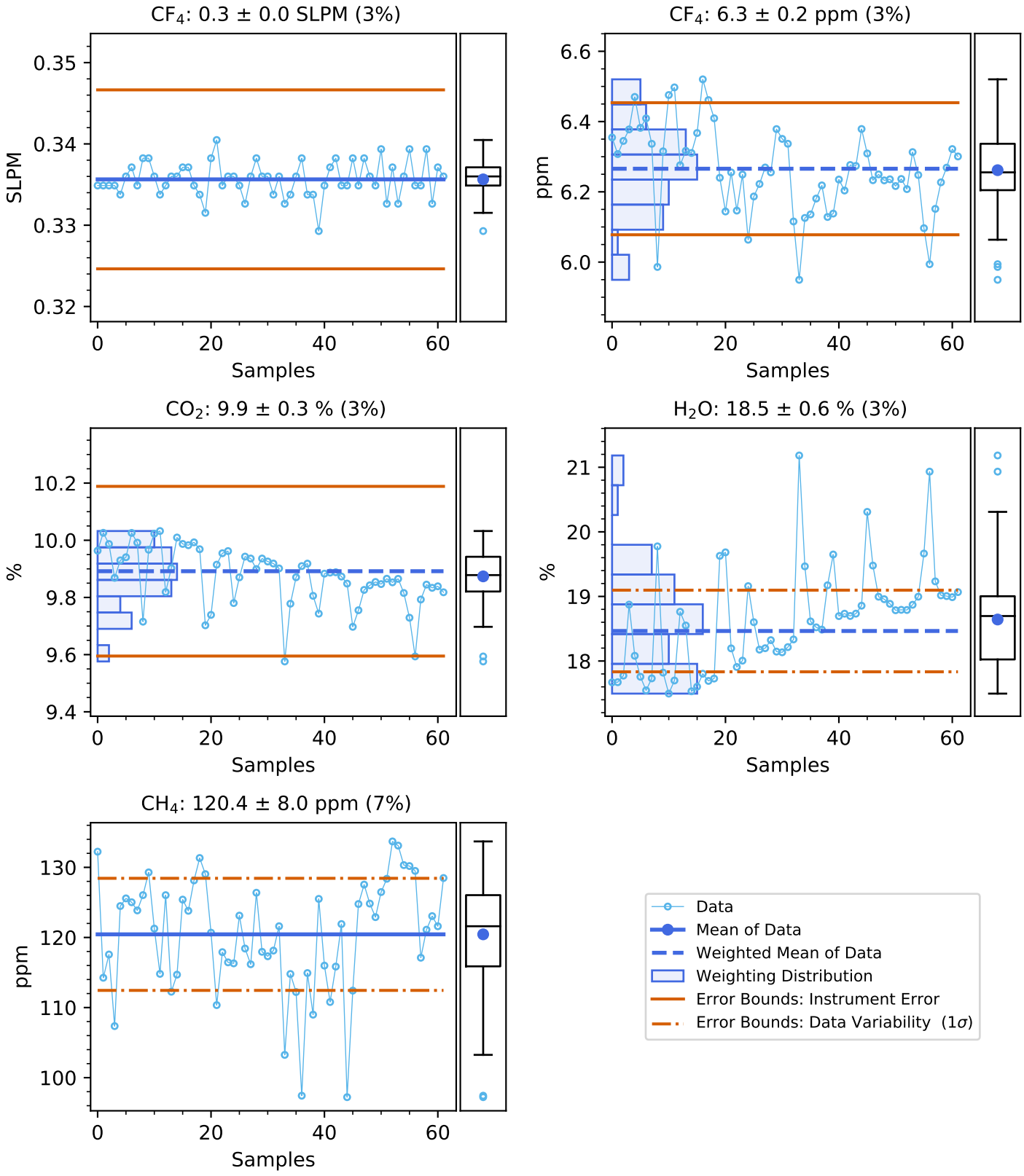
Facility: 1292 Unit: 3 Test: 1



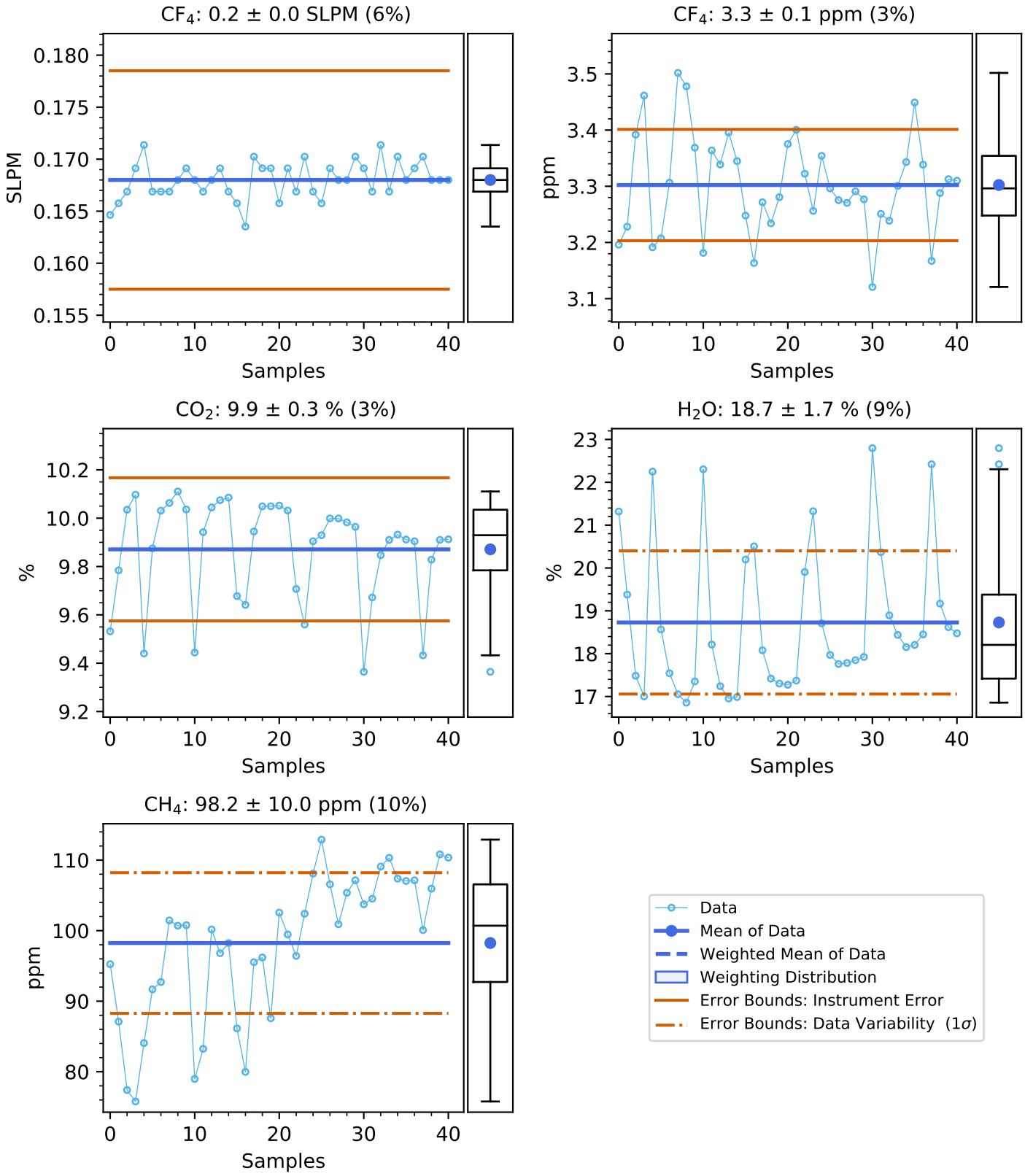
Facility: 1292 Unit: 3 Test: 2



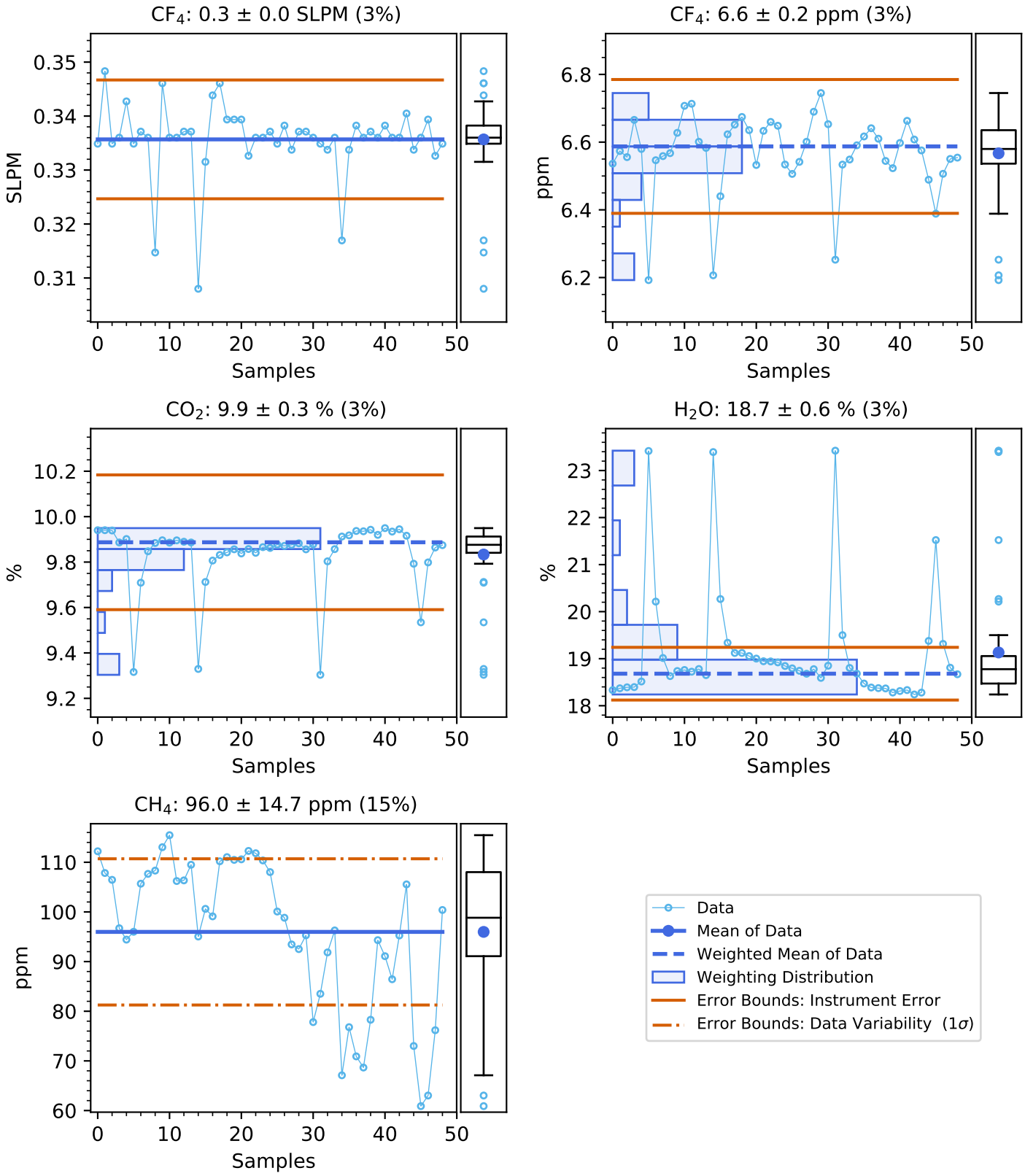
Facility: 1292 Unit: 3 Test: 3



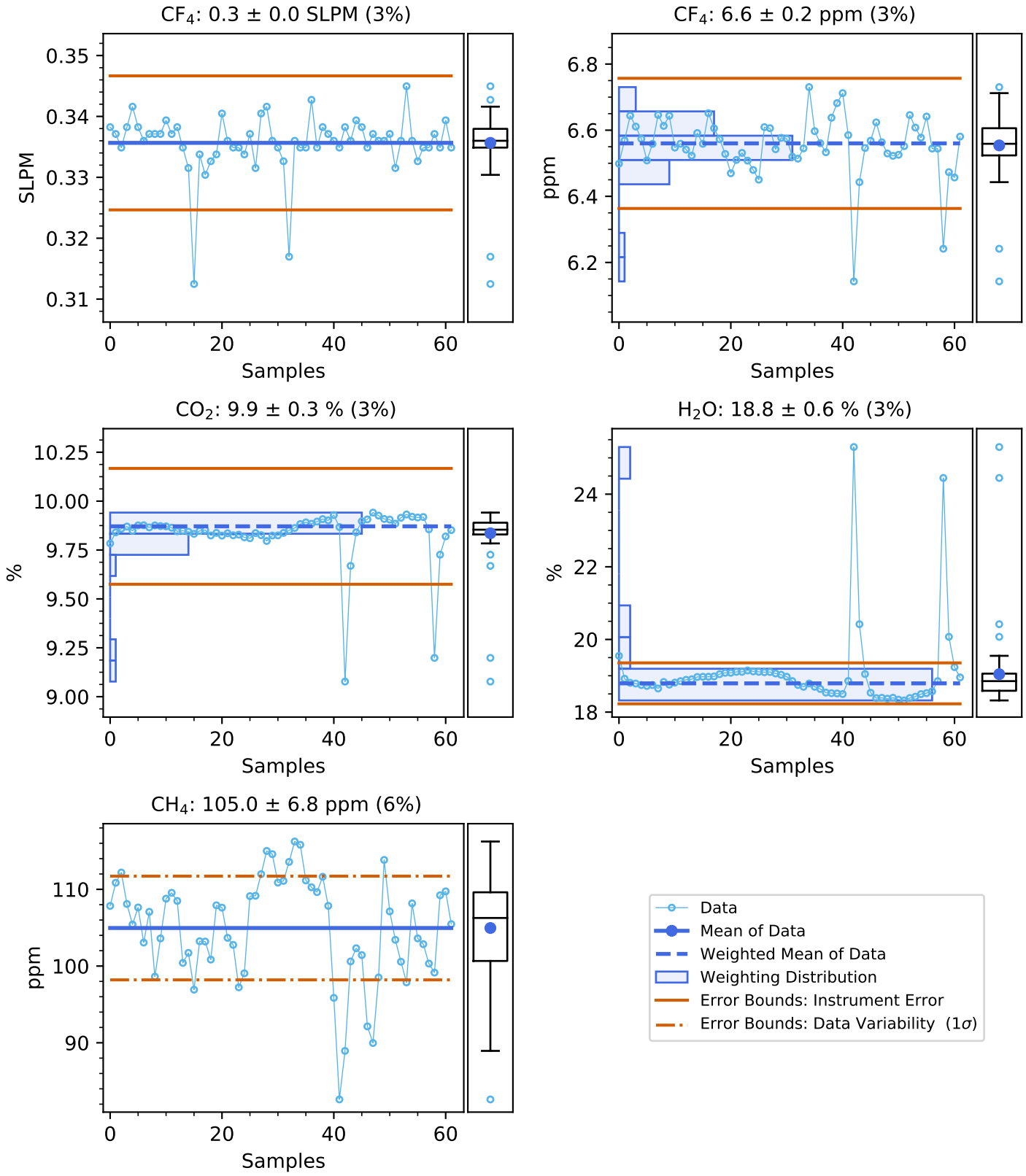
Facility: 1292 Unit: 4 Test: 1



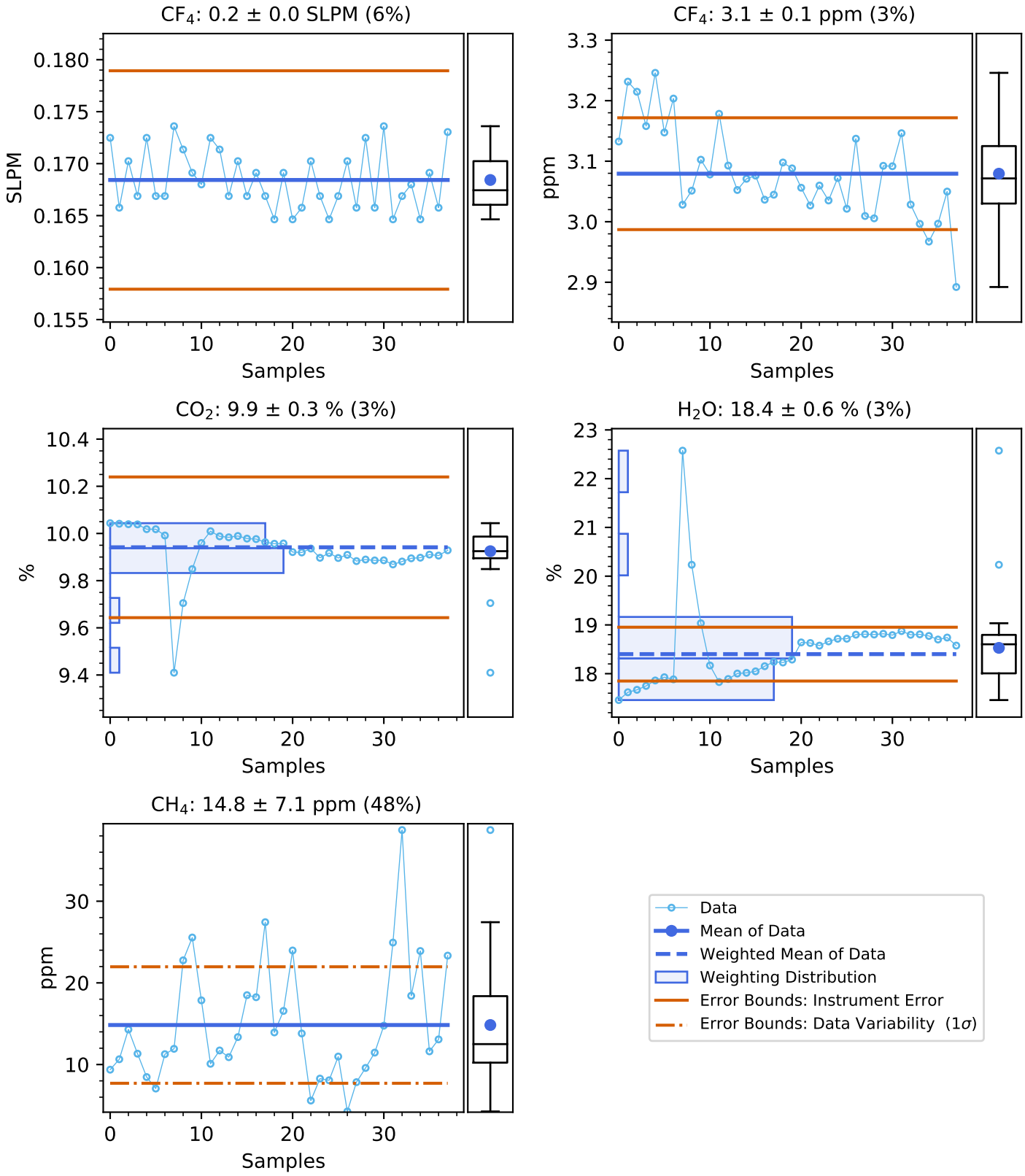
Facility: 1292 Unit: 4 Test: 2



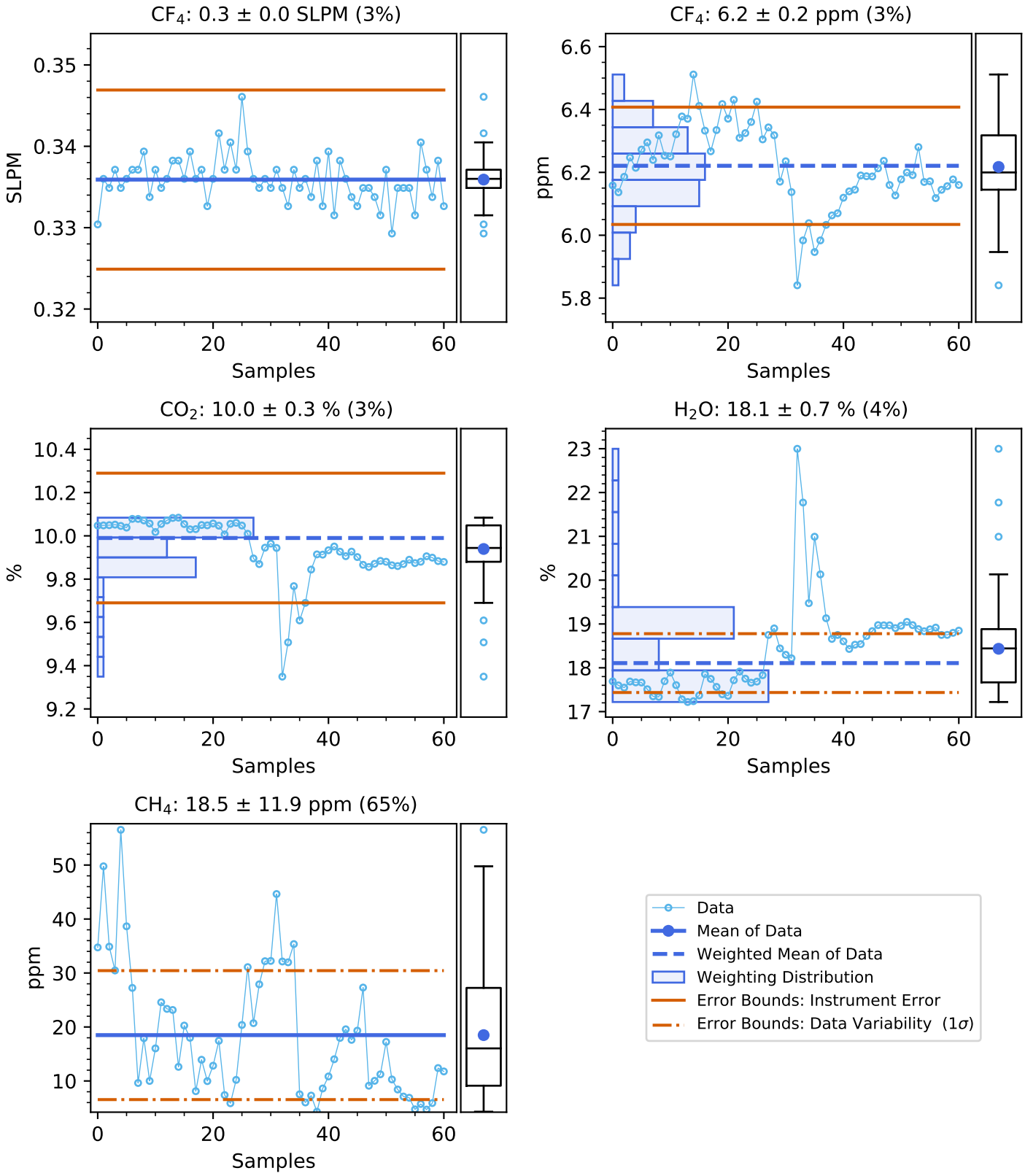
Facility: 1292 Unit: 4 Test: 3



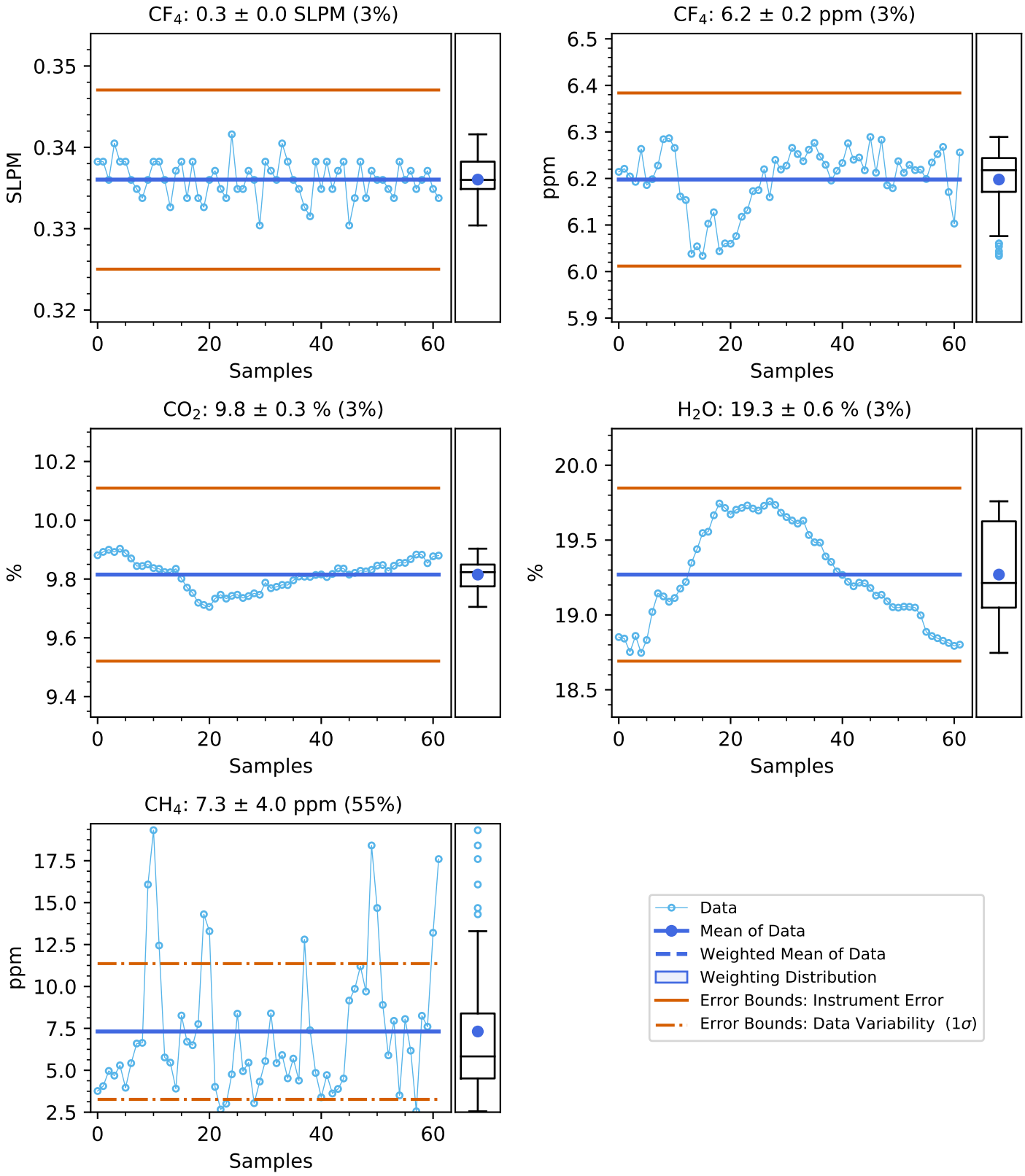
Facility: 1292 Unit: 5 Test: 1



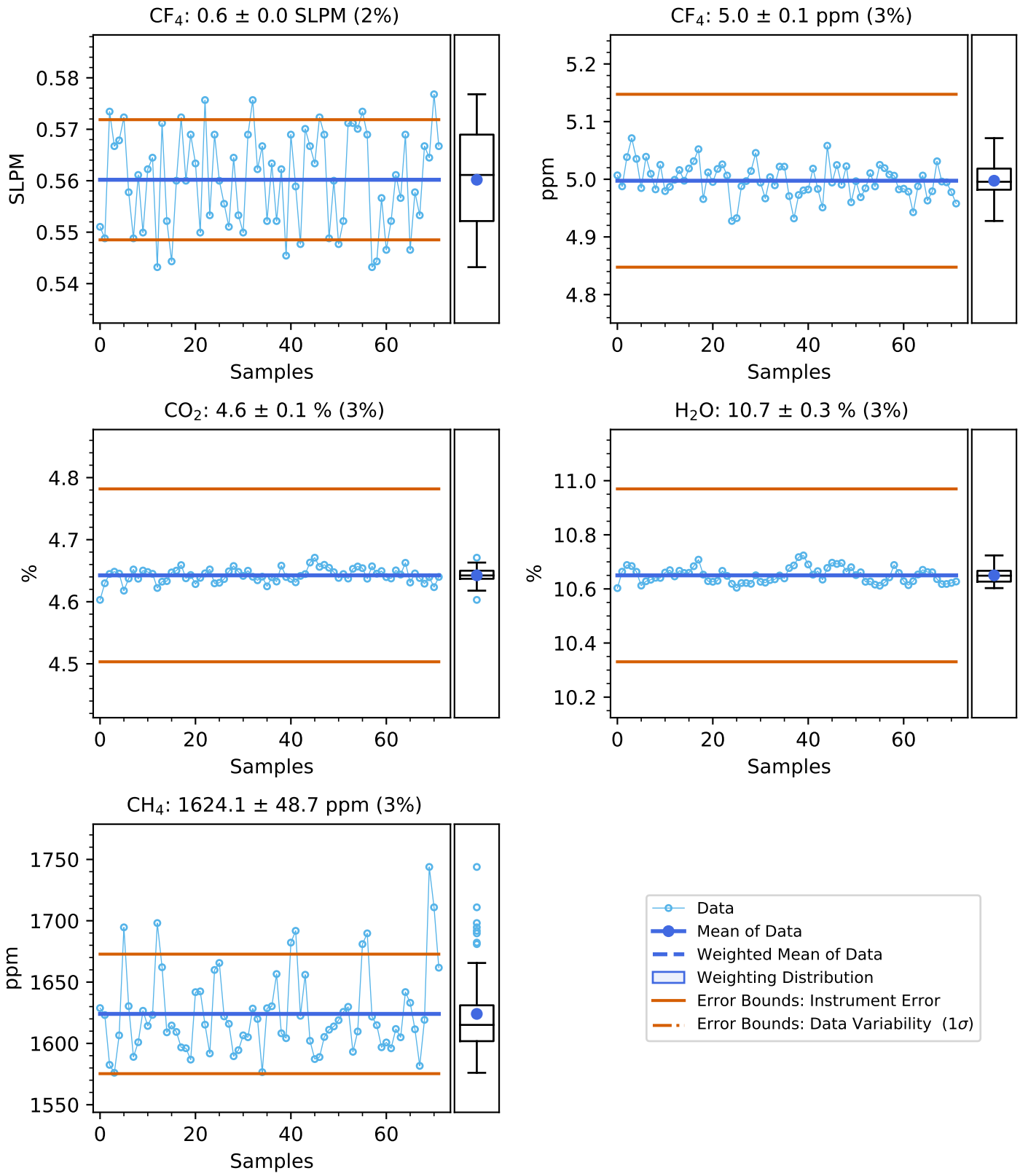
Facility: 1292 Unit: 5 Test: 2



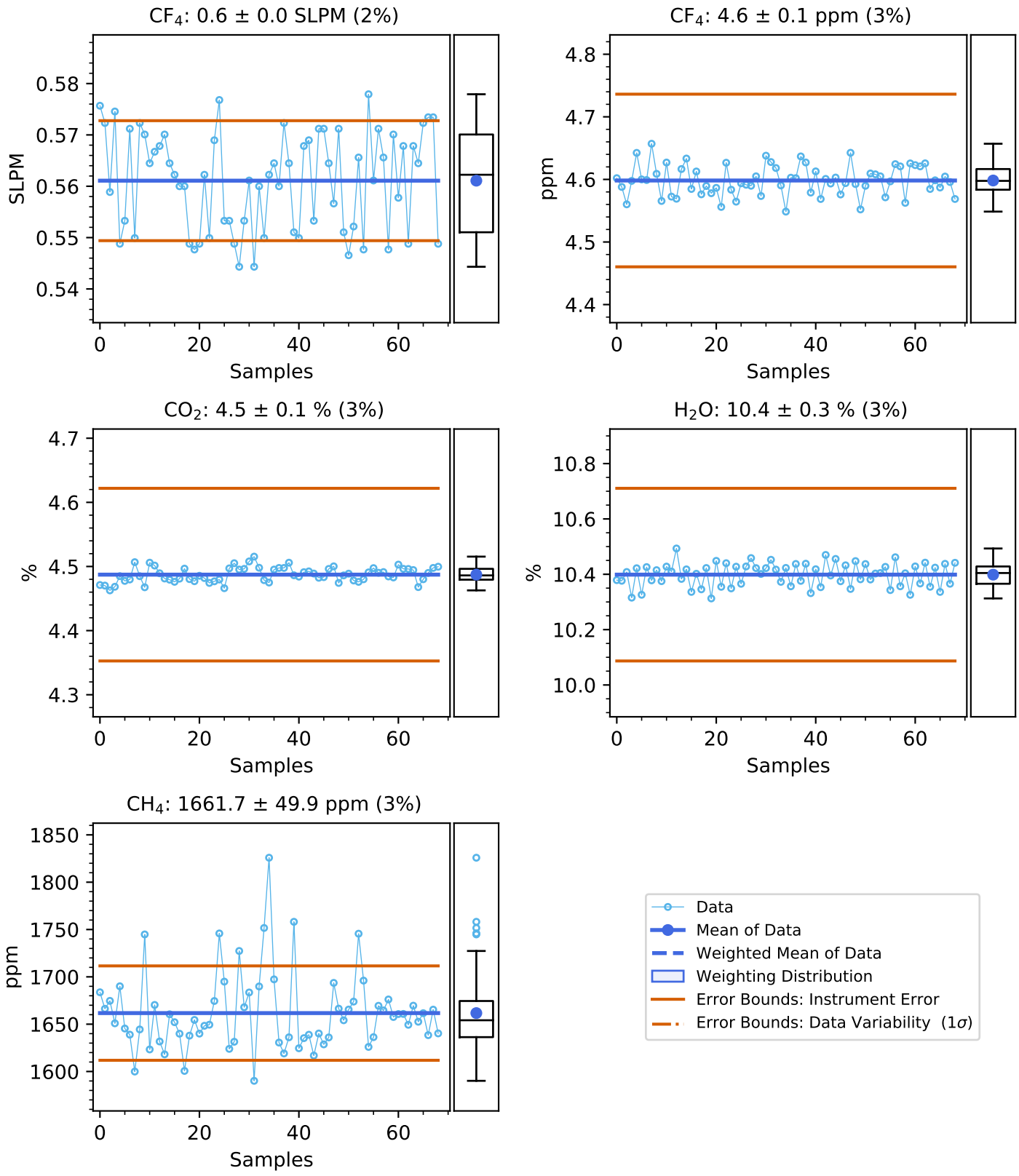
Facility: 1292 Unit: 5 Test: 3



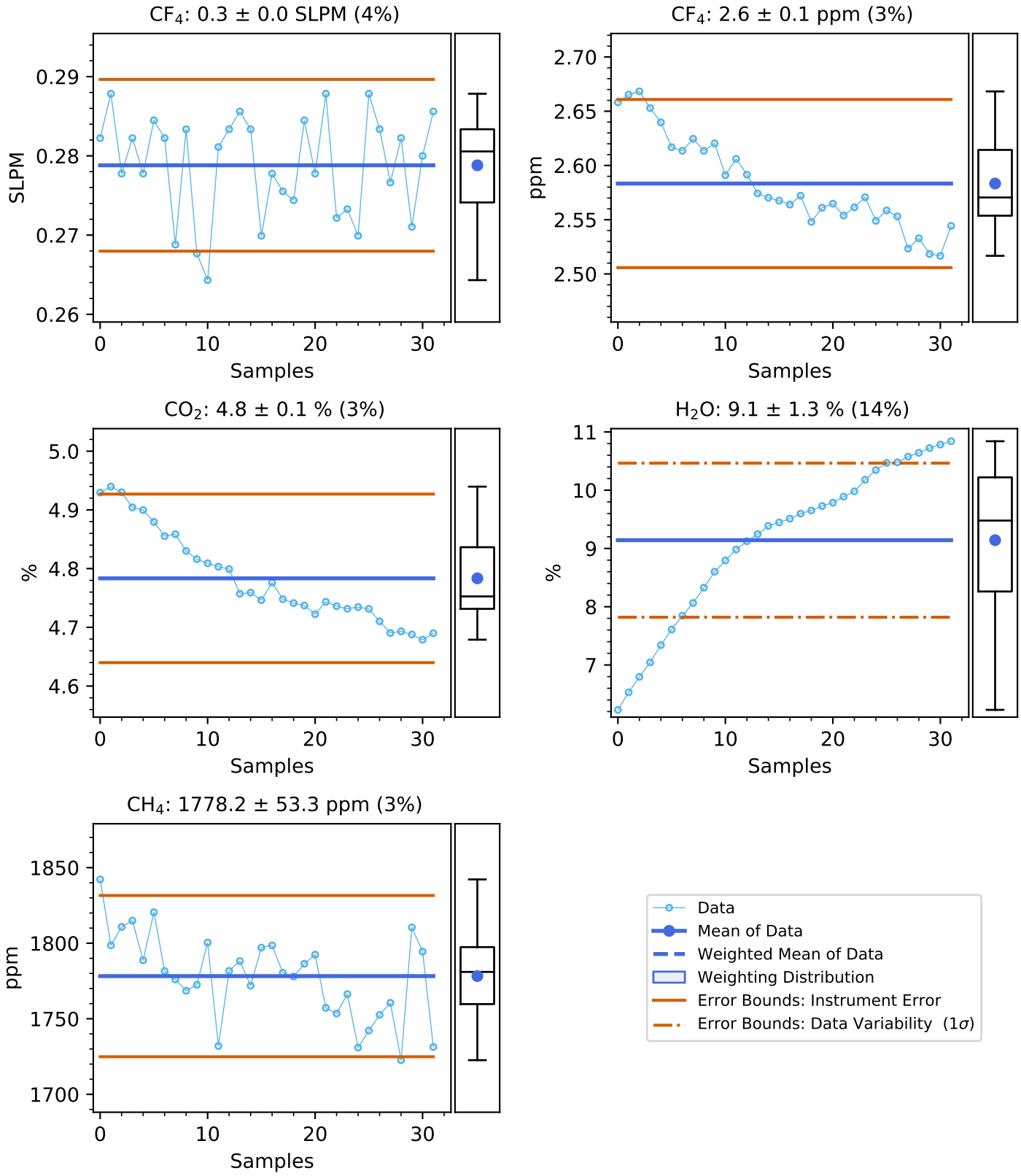
Facility: 1618 Unit: 1 Test: 1



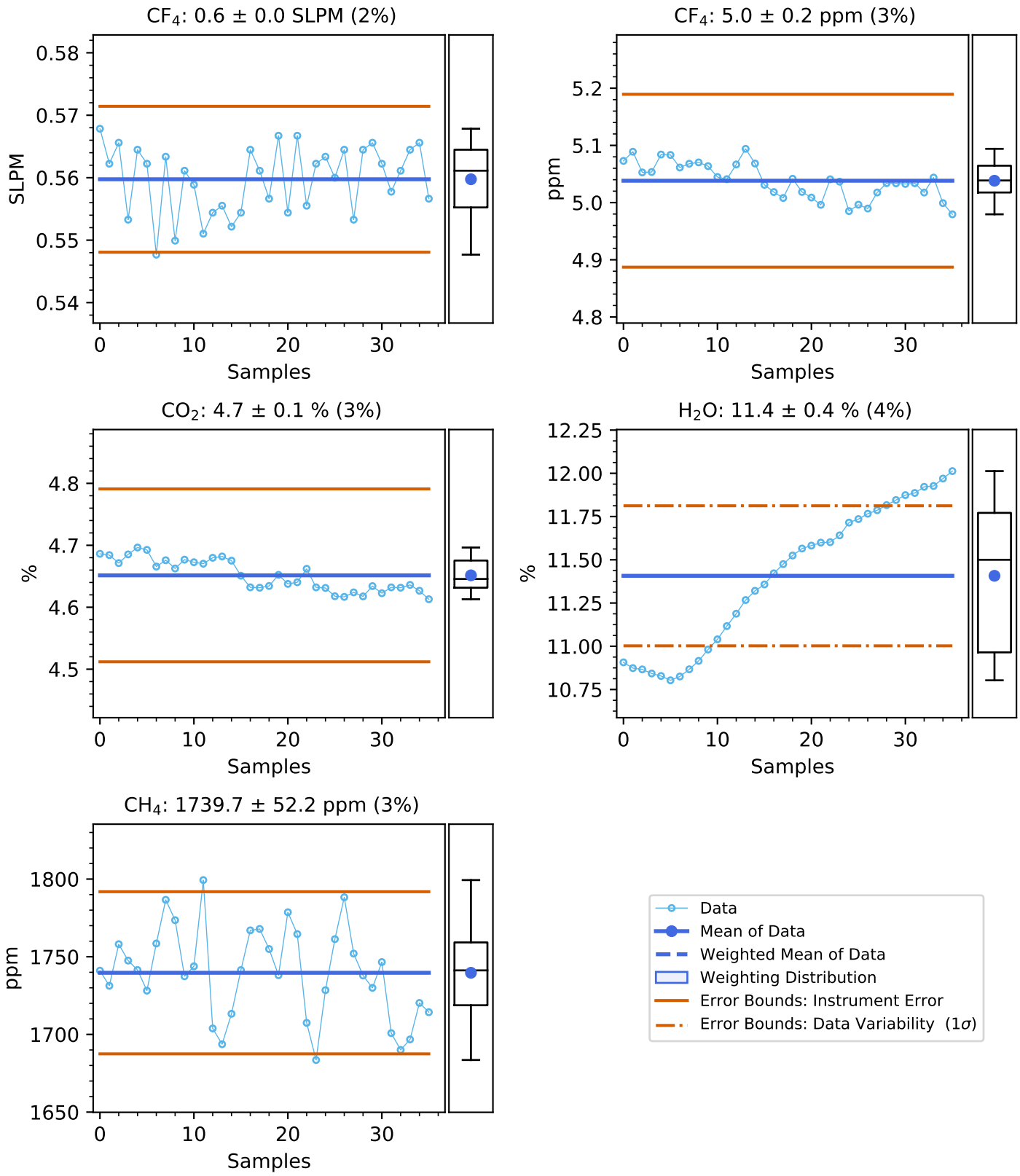
Facility: 1618 Unit: 2 Test: 1



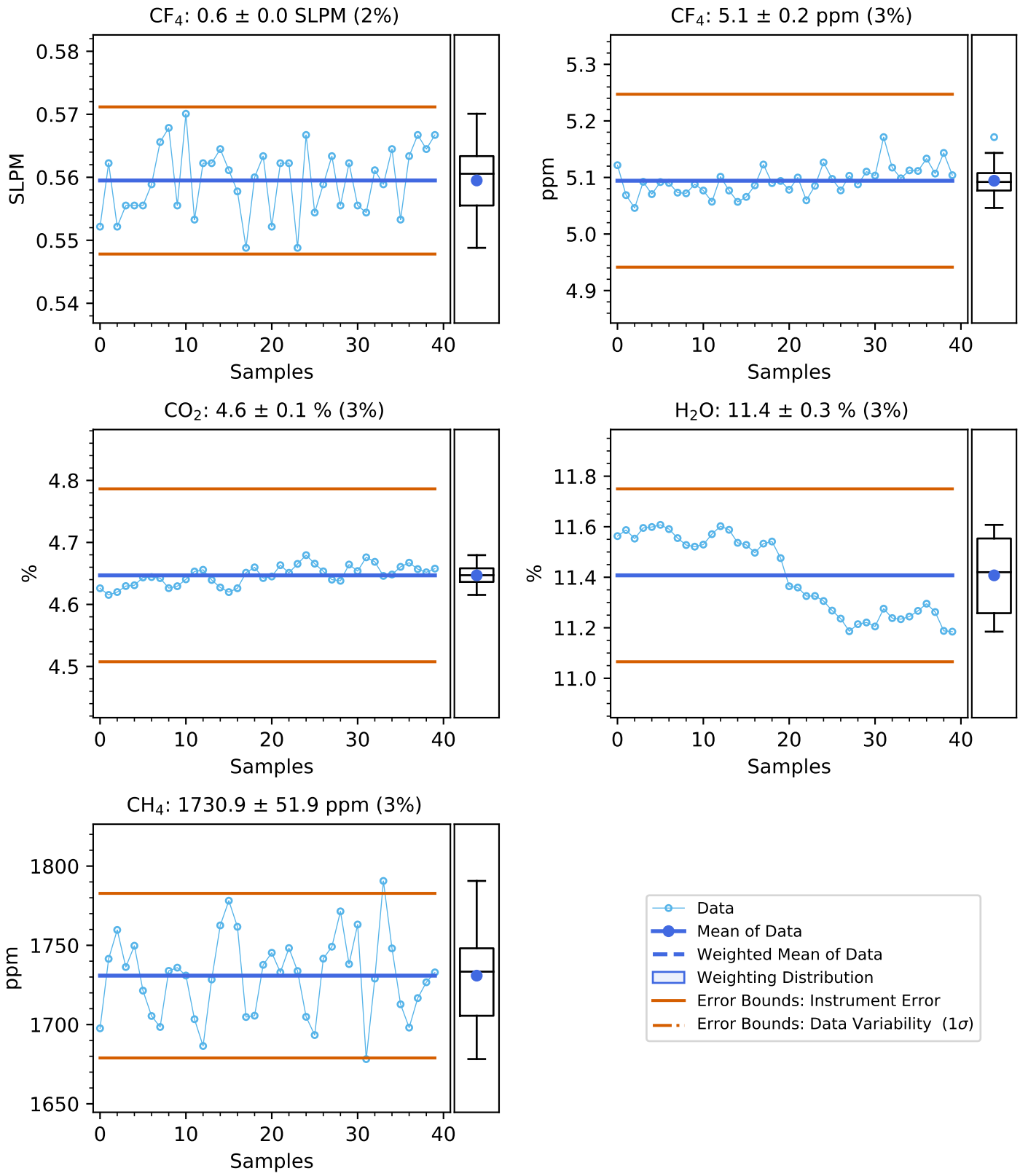
Facility: 1618 Unit: 3 Test: 1



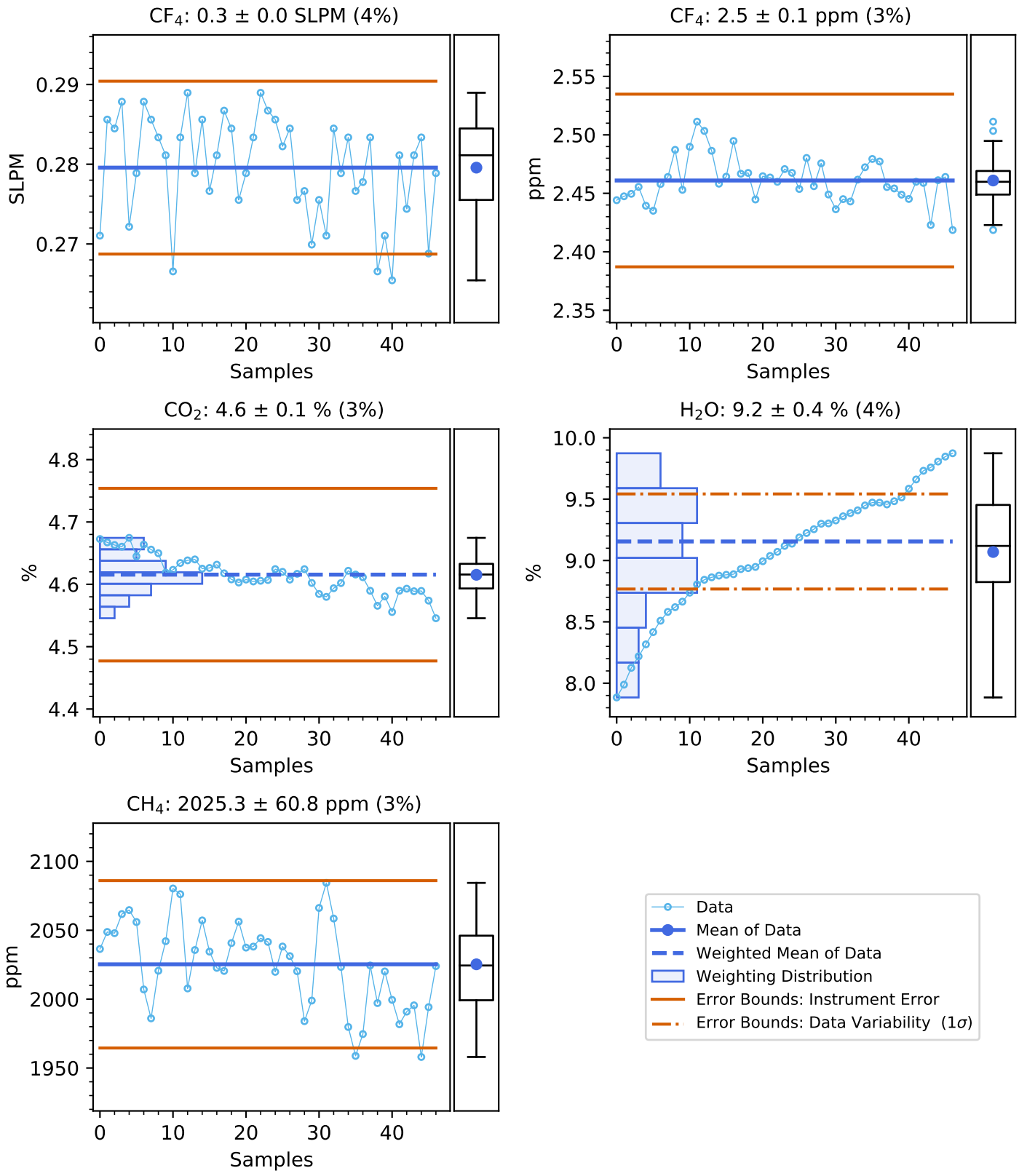
Facility: 1618 Unit: 3 Test: 2



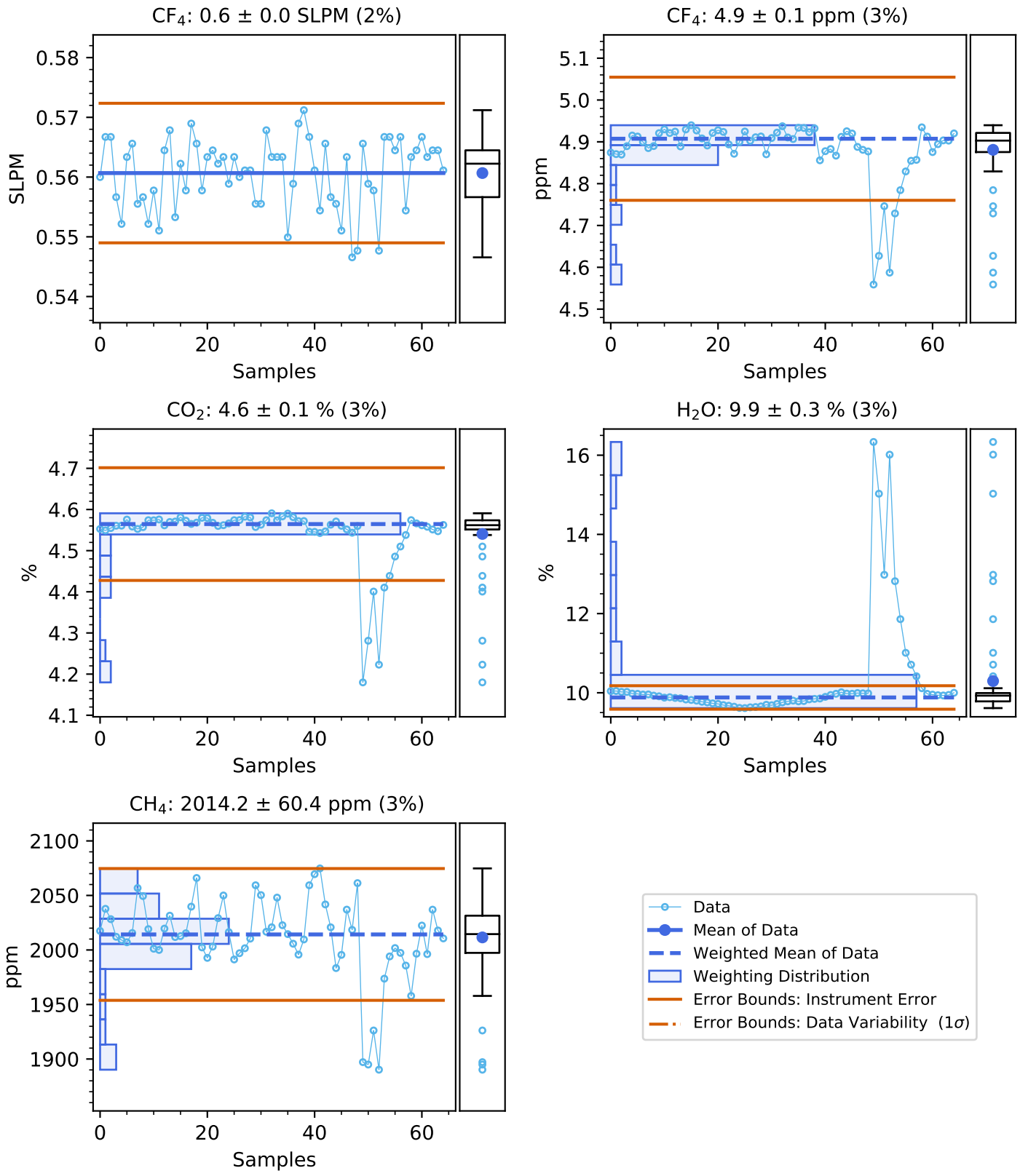
Facility: 1618 Unit: 3 Test: 3



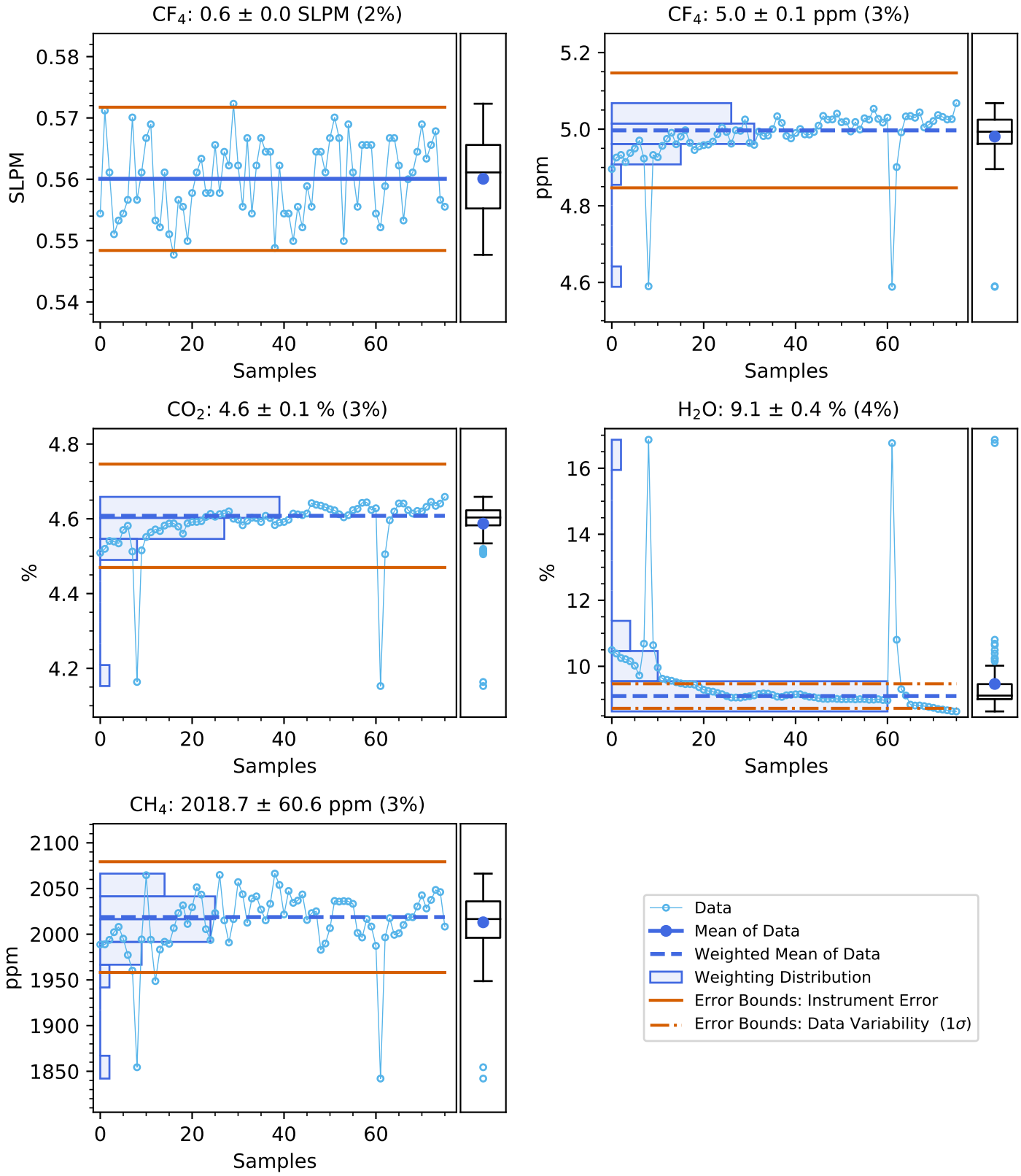
Facility: 1618 Unit: 4 Test: 1



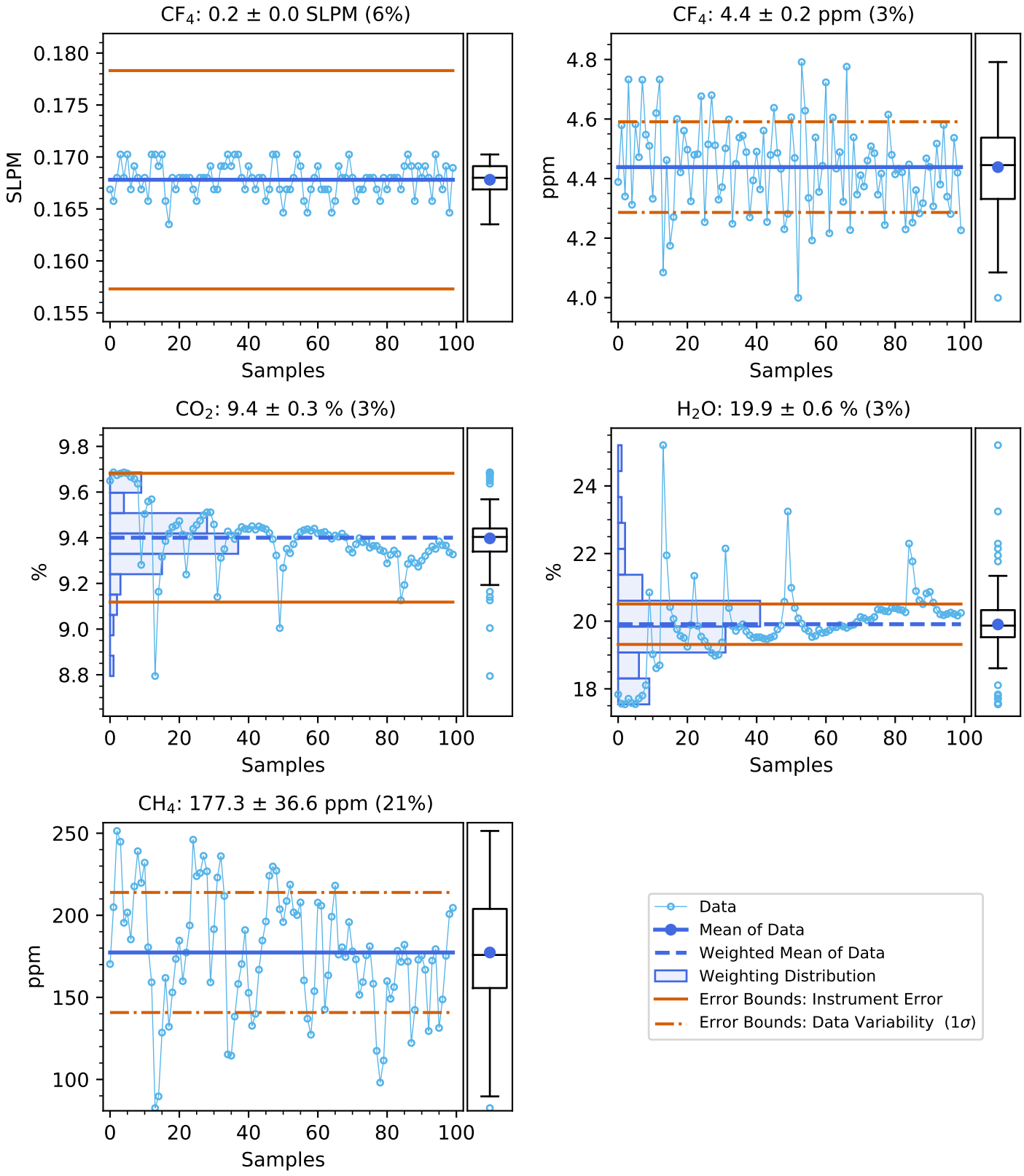
Facility: 1618 Unit: 4 Test: 2



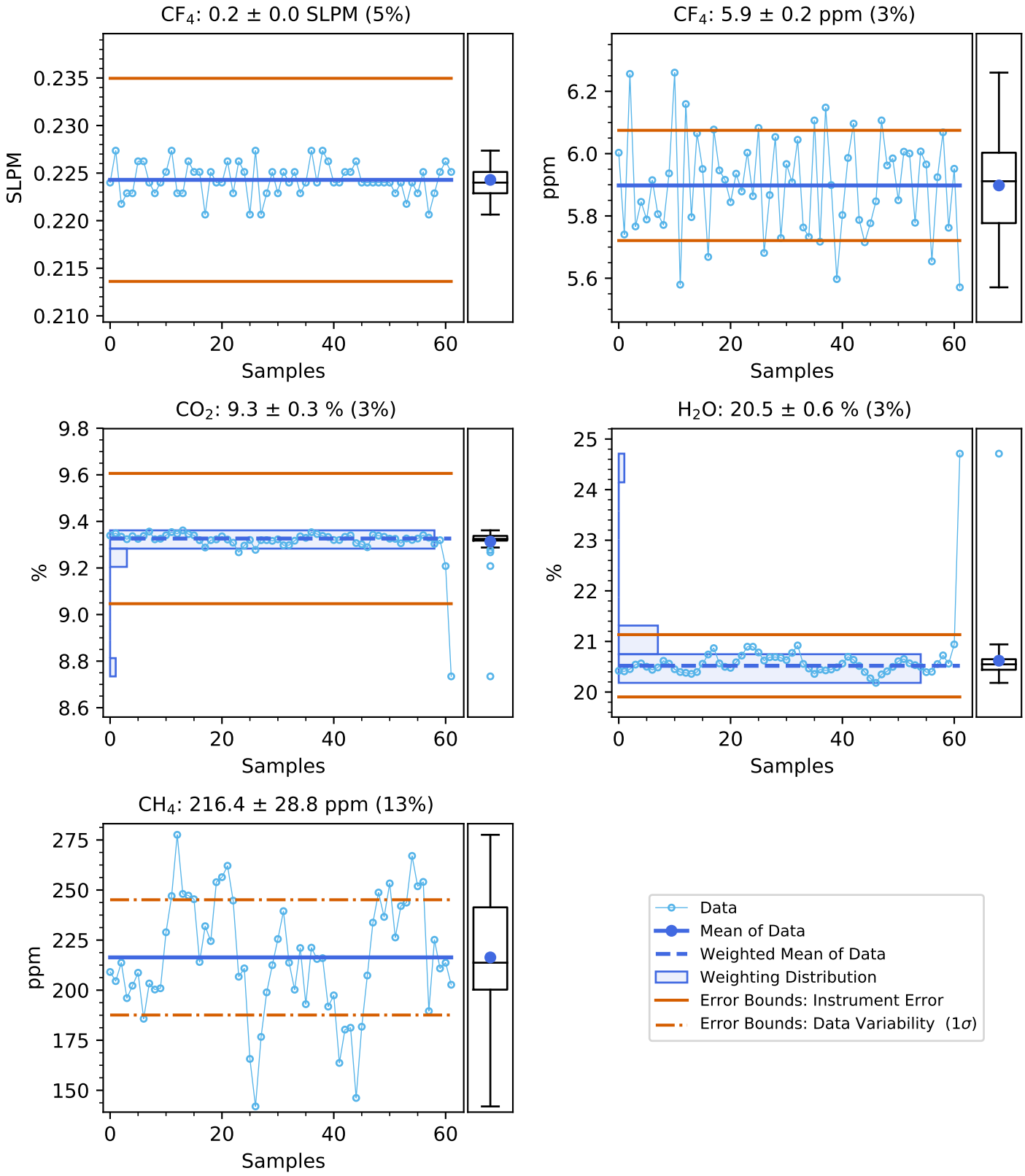
Facility: 1618 Unit: 4 Test: 3



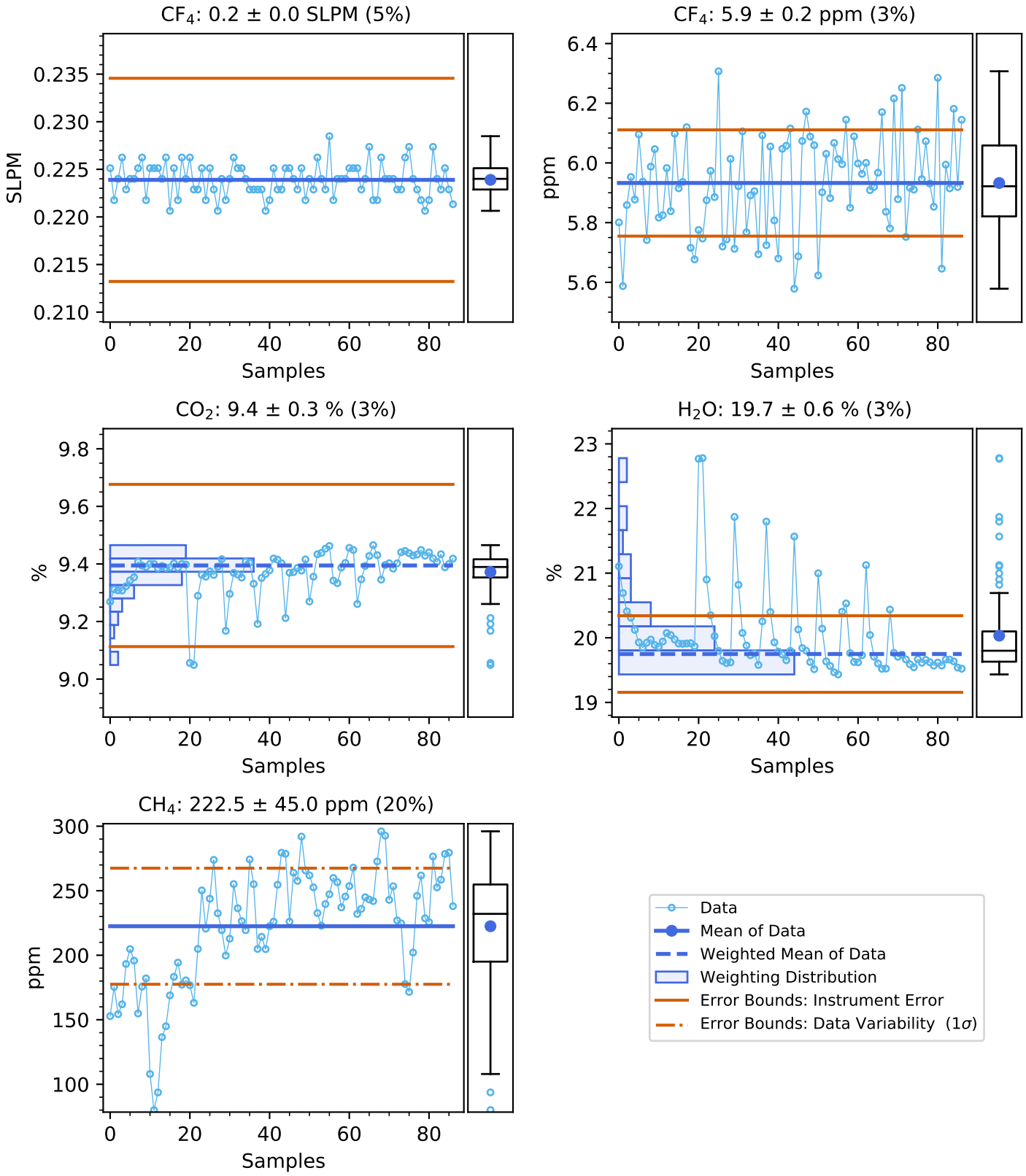
Facility: 621 Unit: 1 Test: 1



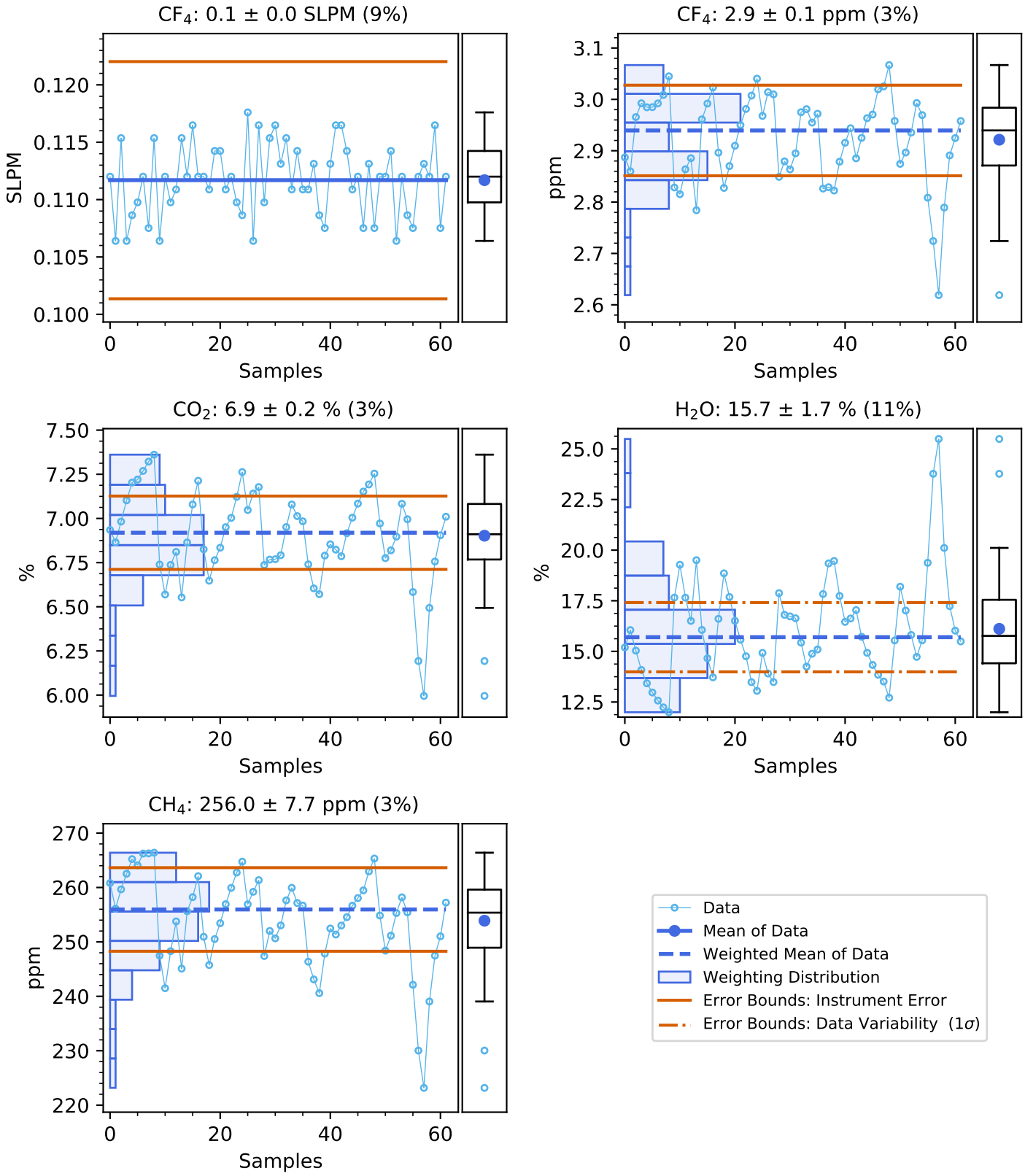
Facility: 621 Unit: 1 Test: 2



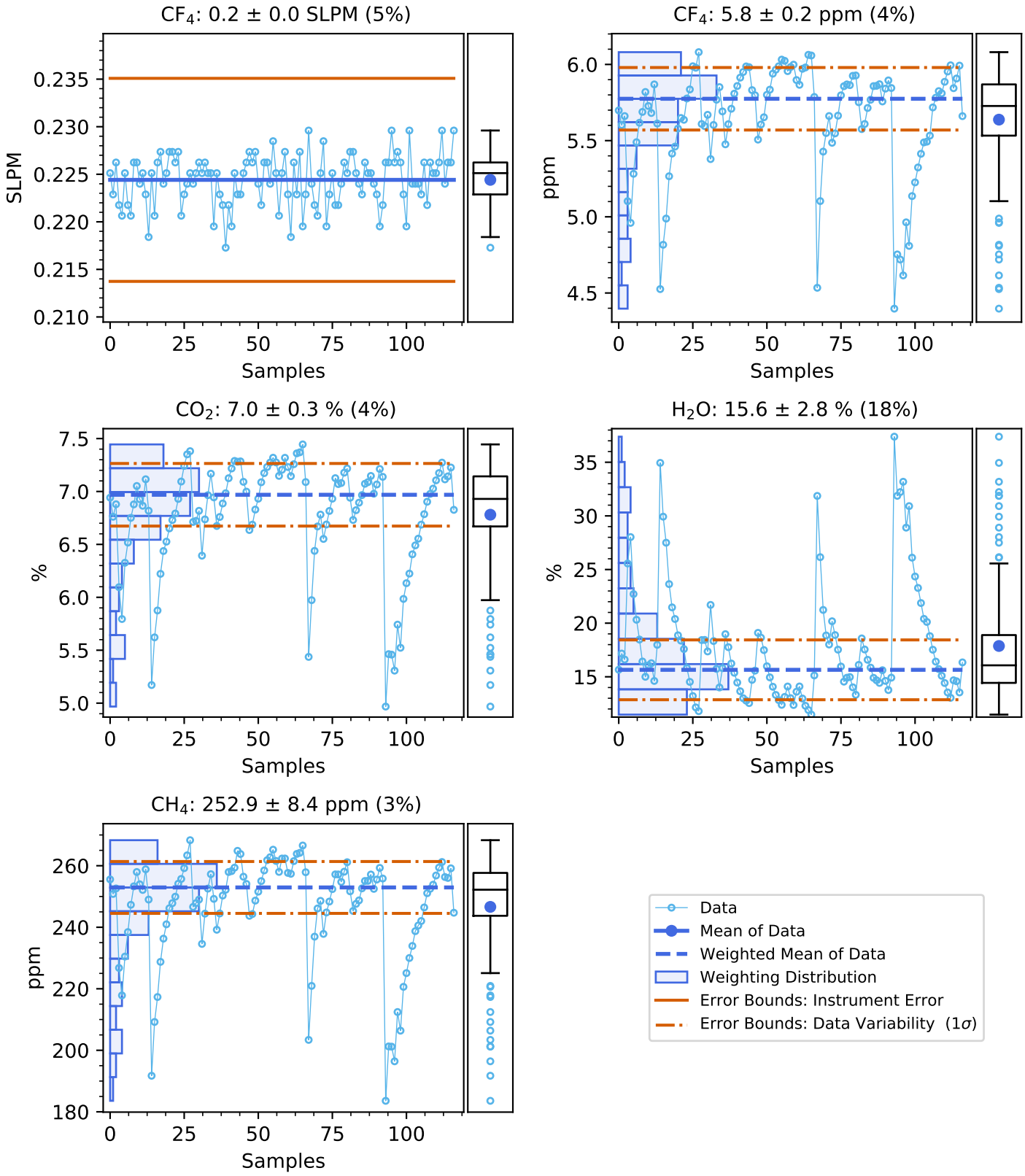
Facility: 621 Unit: 1 Test: 3



Facility: 2259 Unit: 1 Test: 1



Facility: 2259 Unit: 1 Test: 2



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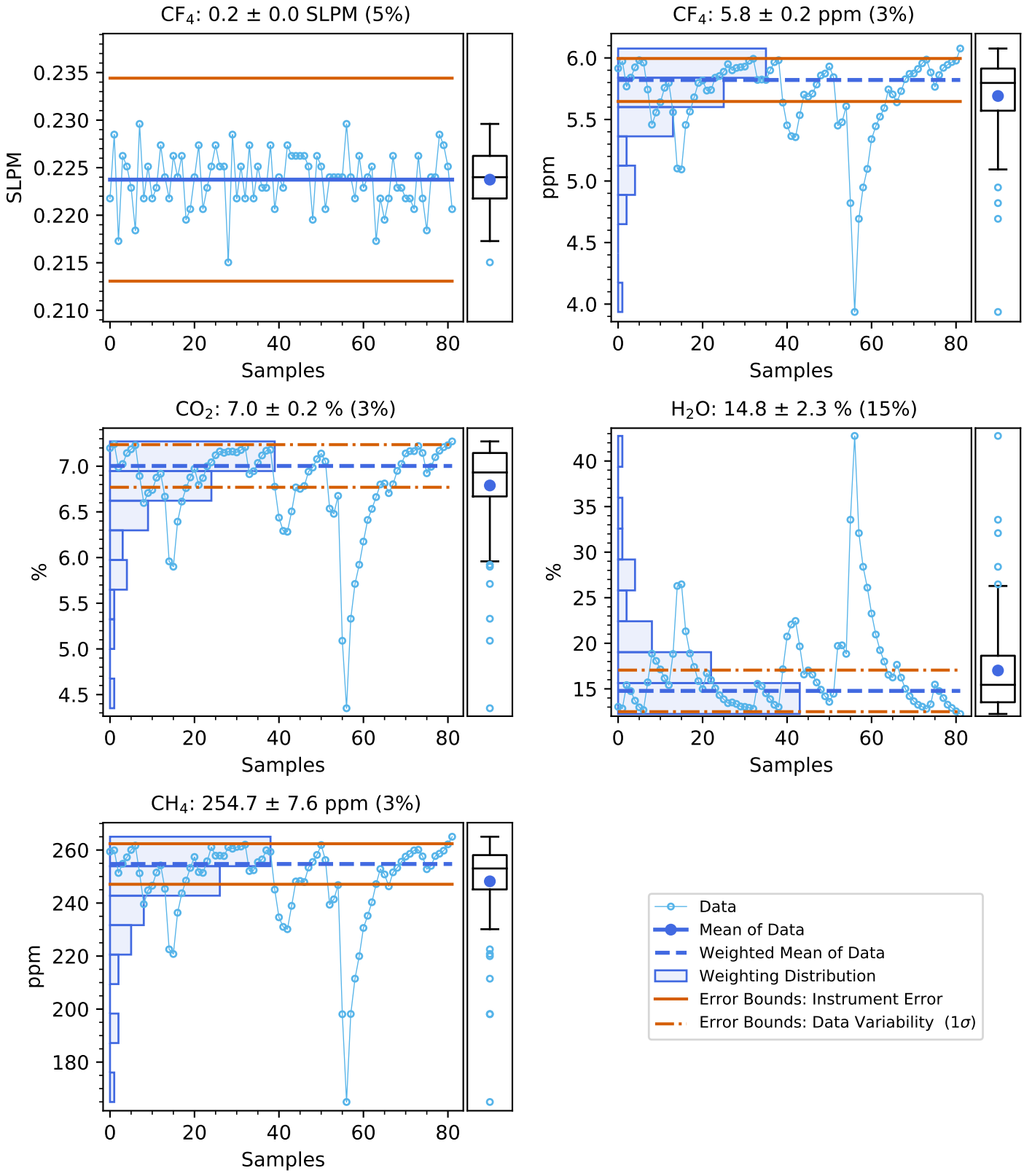
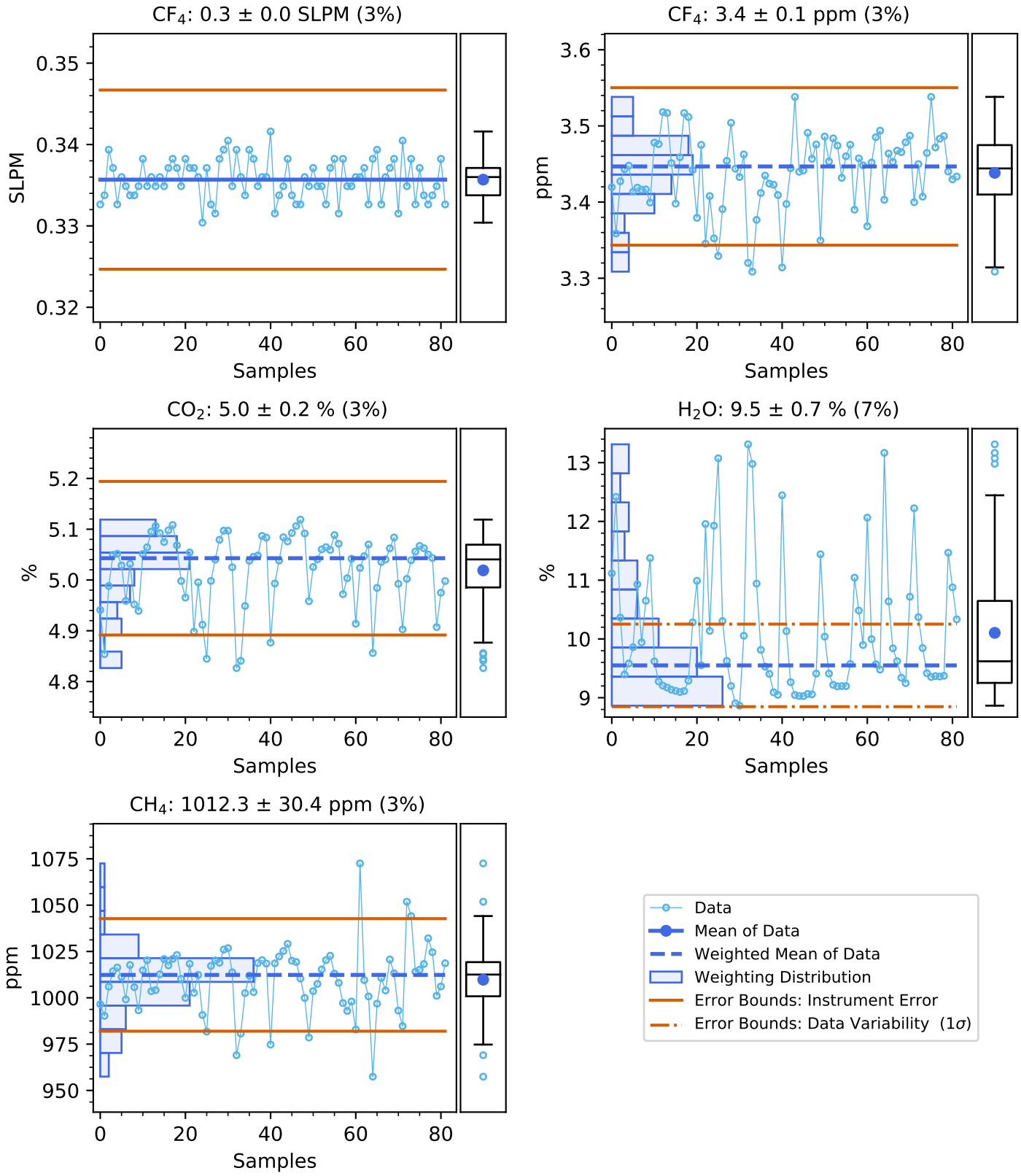
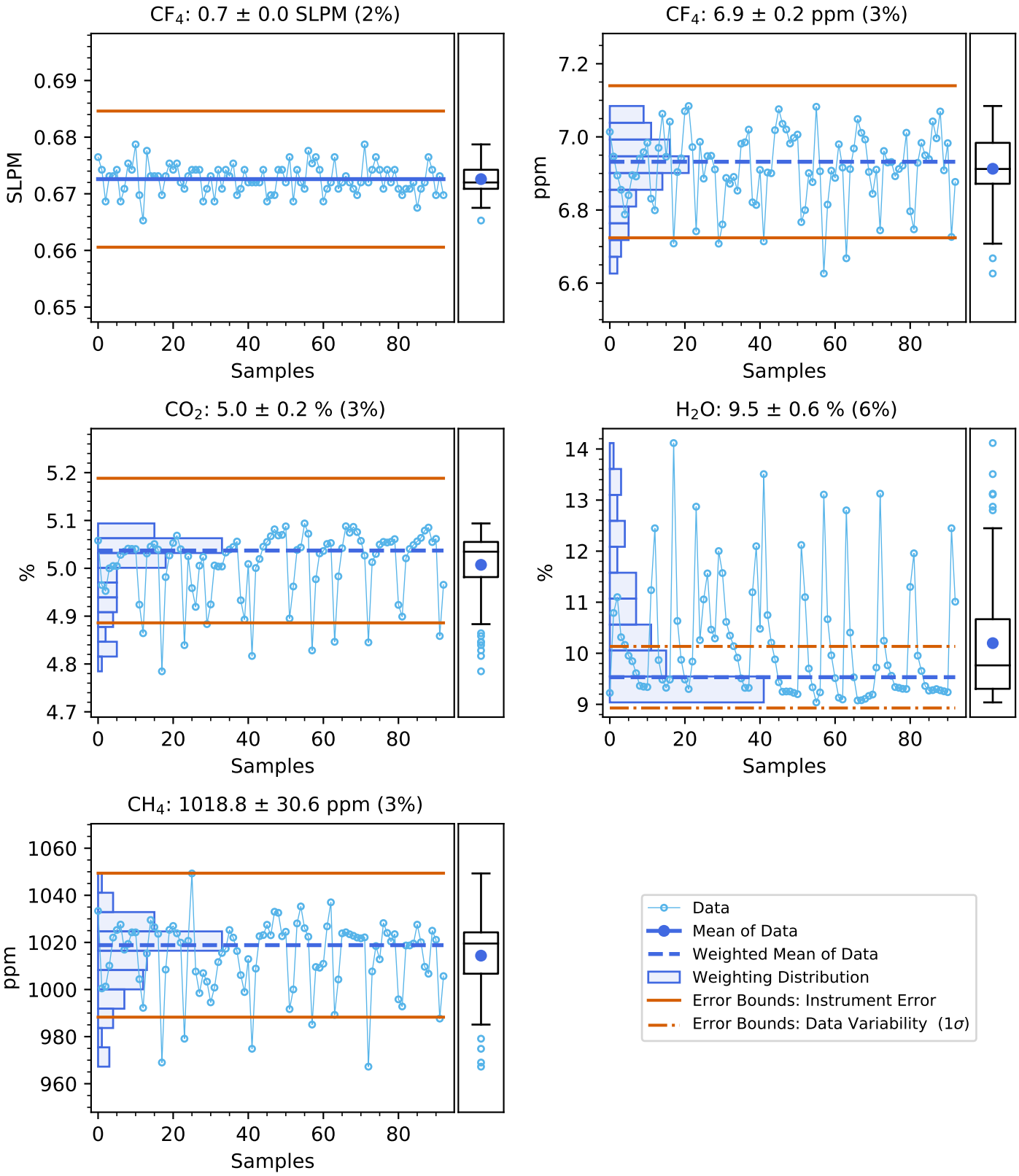


Facility: 2856 Unit: 1 Test: 1



Facility: 2856 Unit: 1 Test: 2



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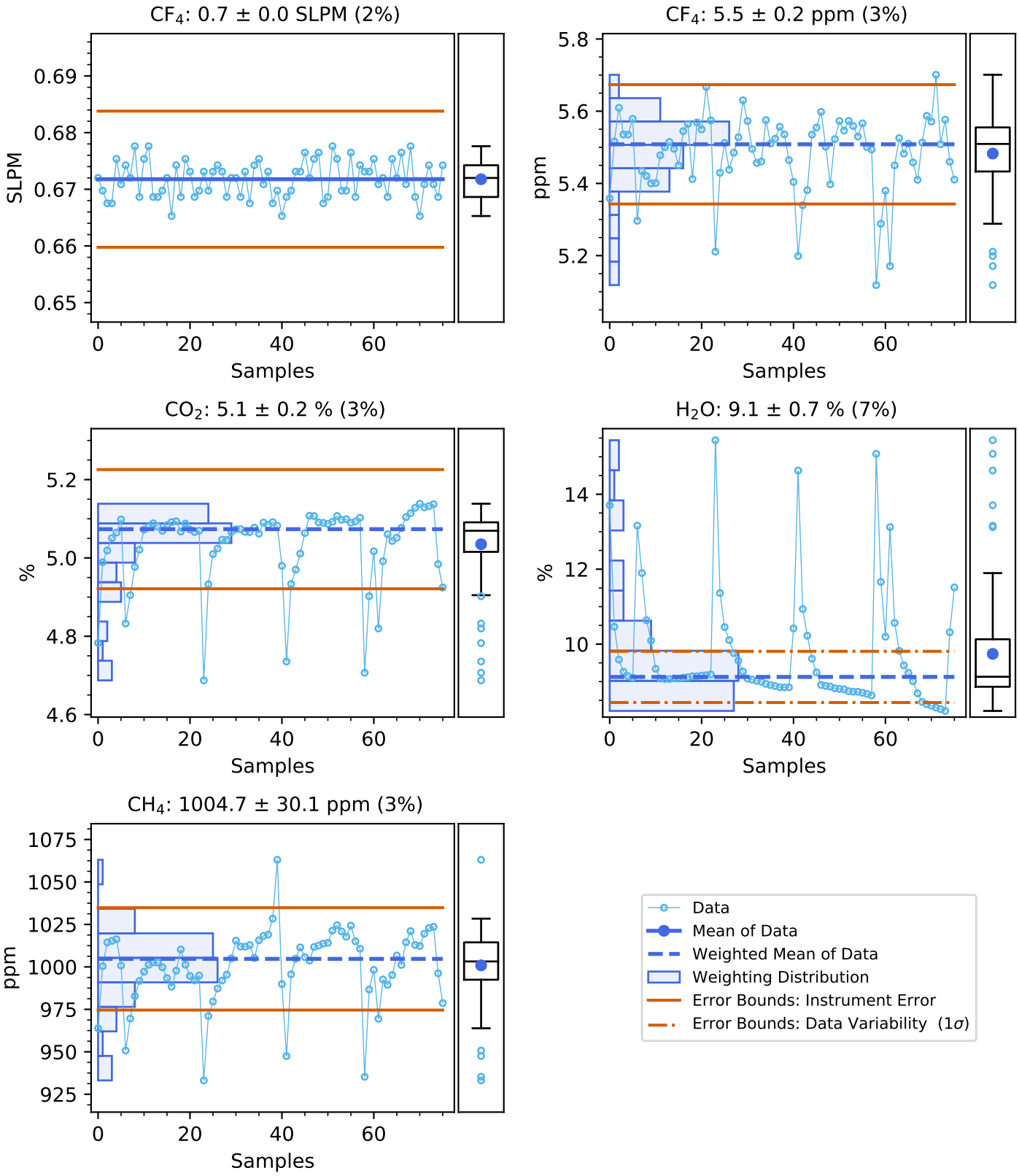

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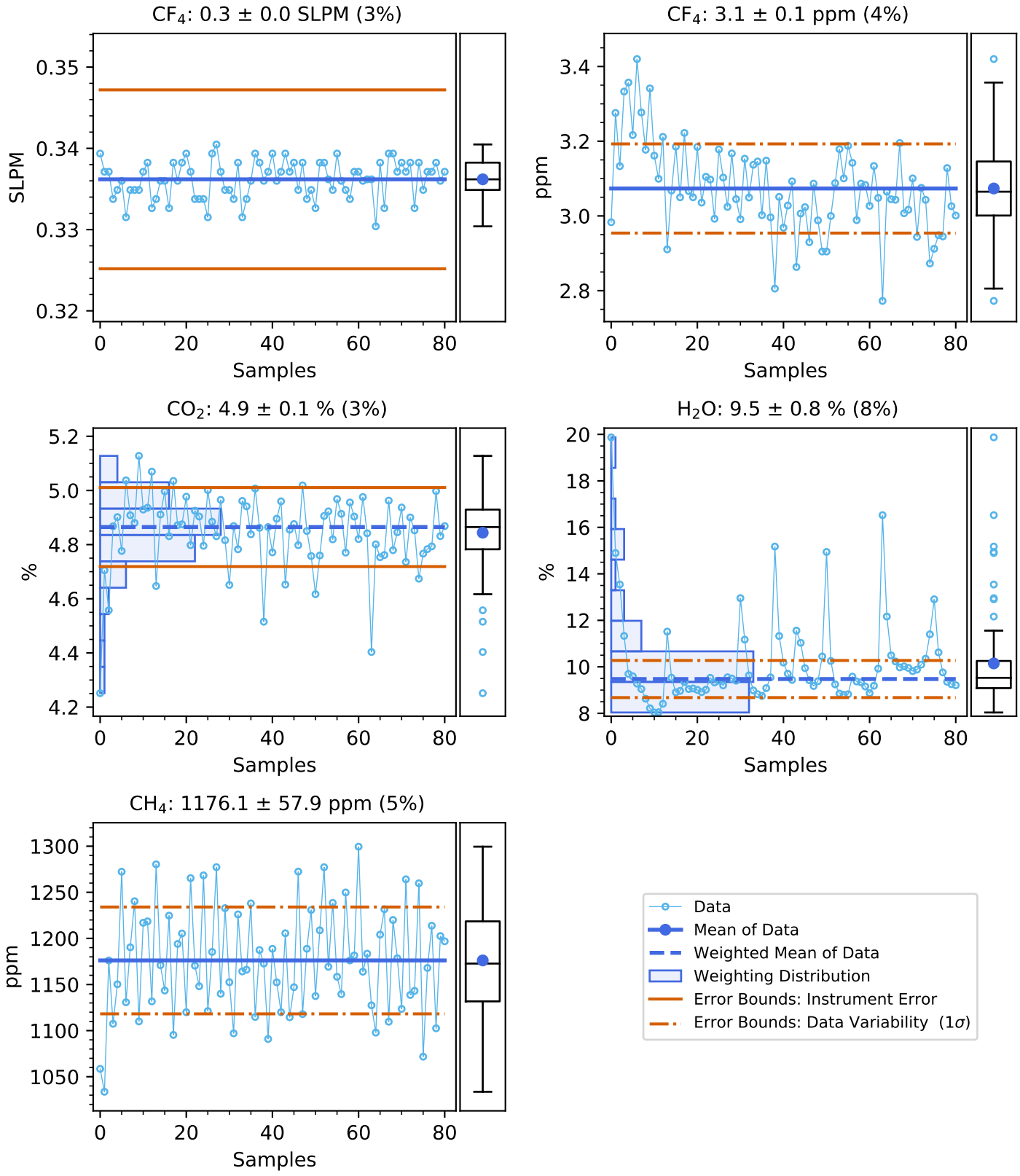

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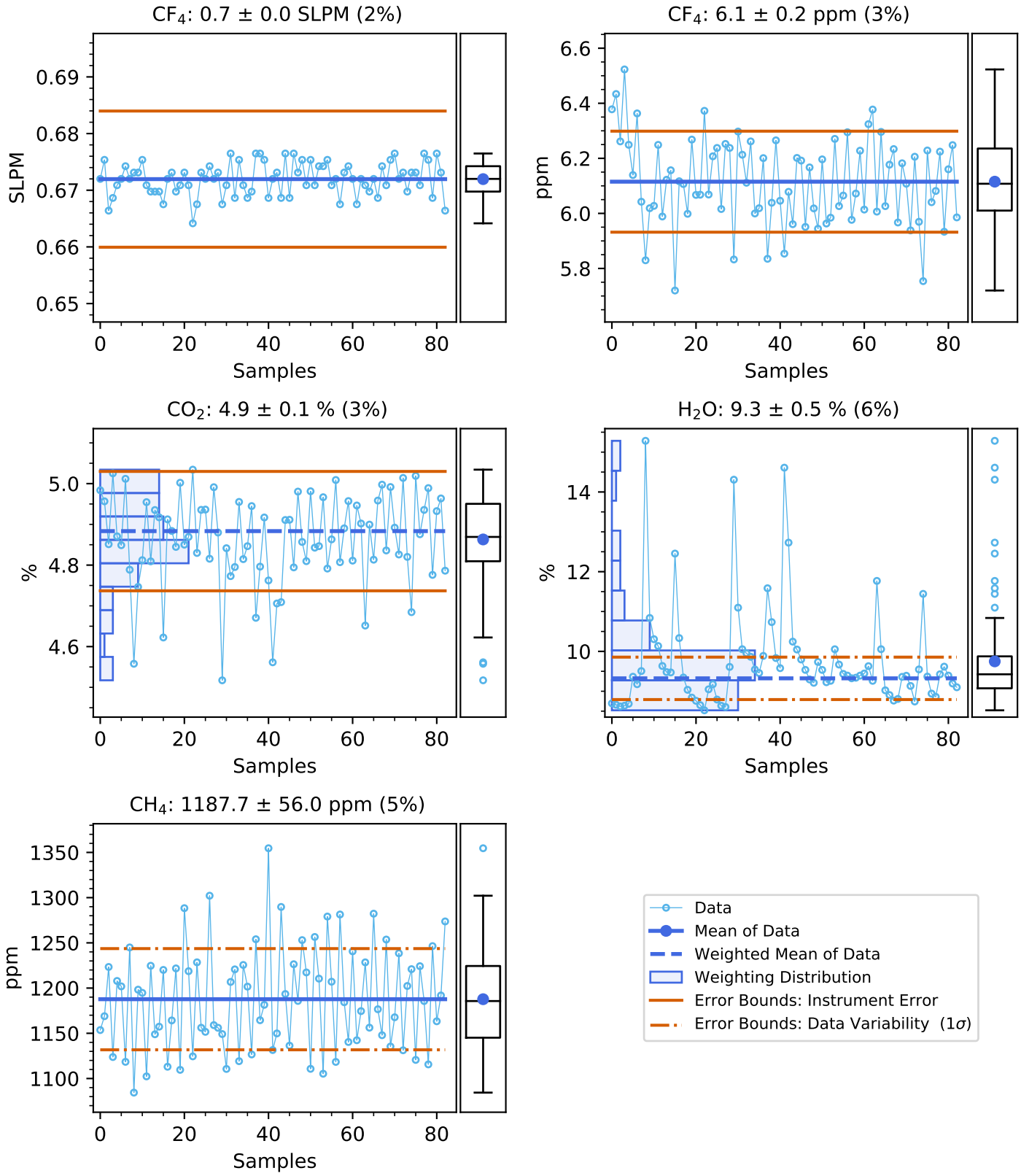

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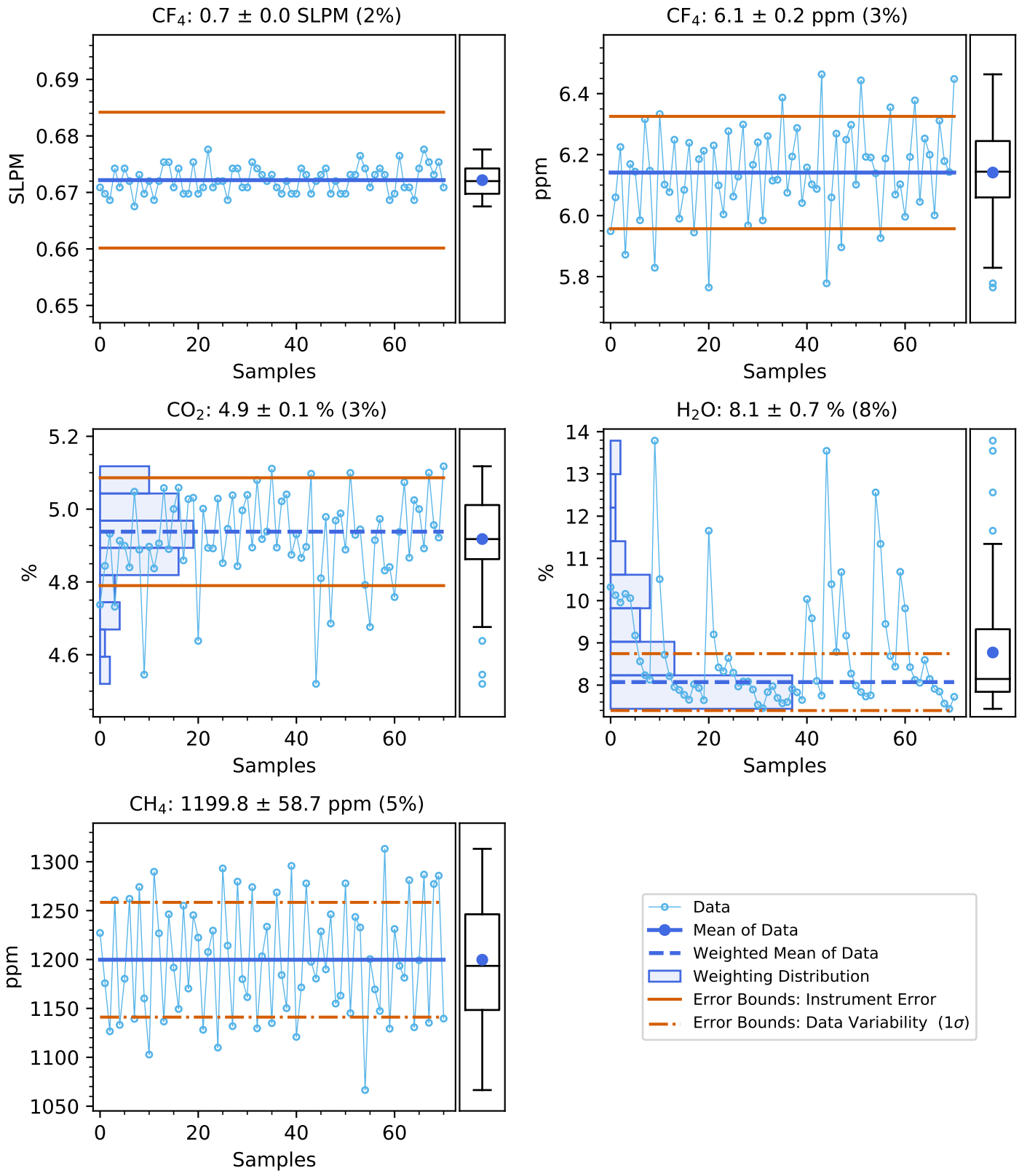

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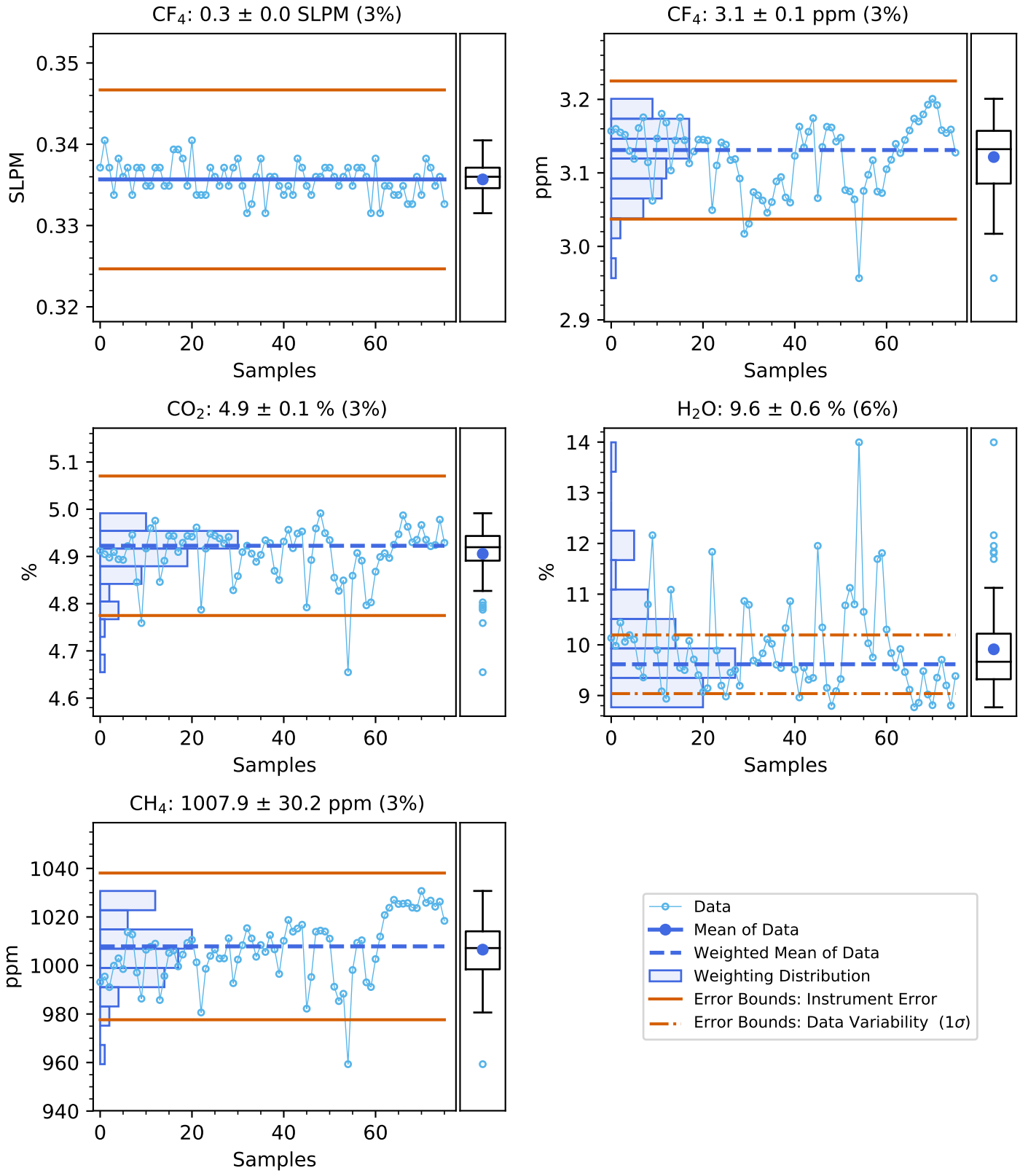
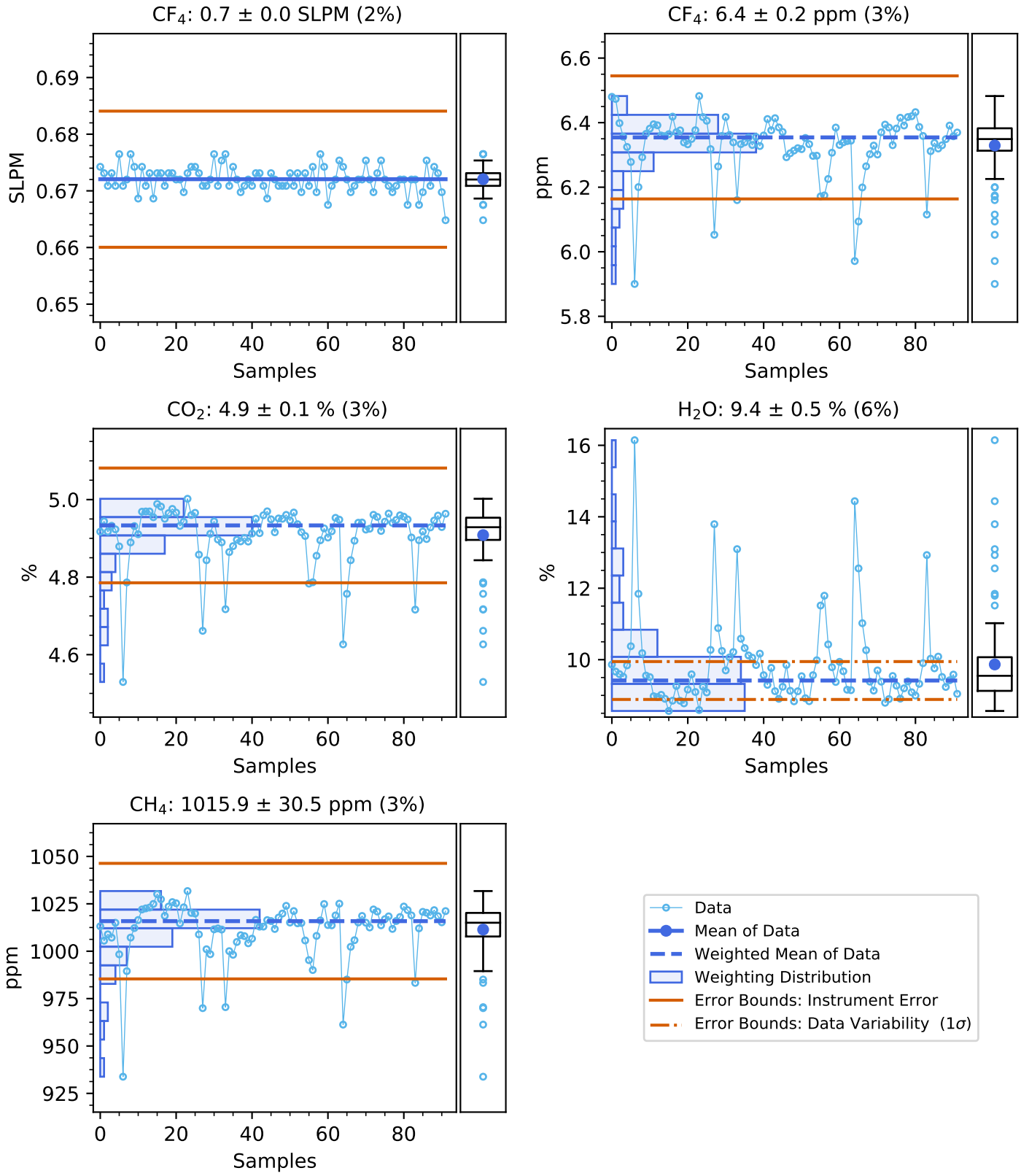
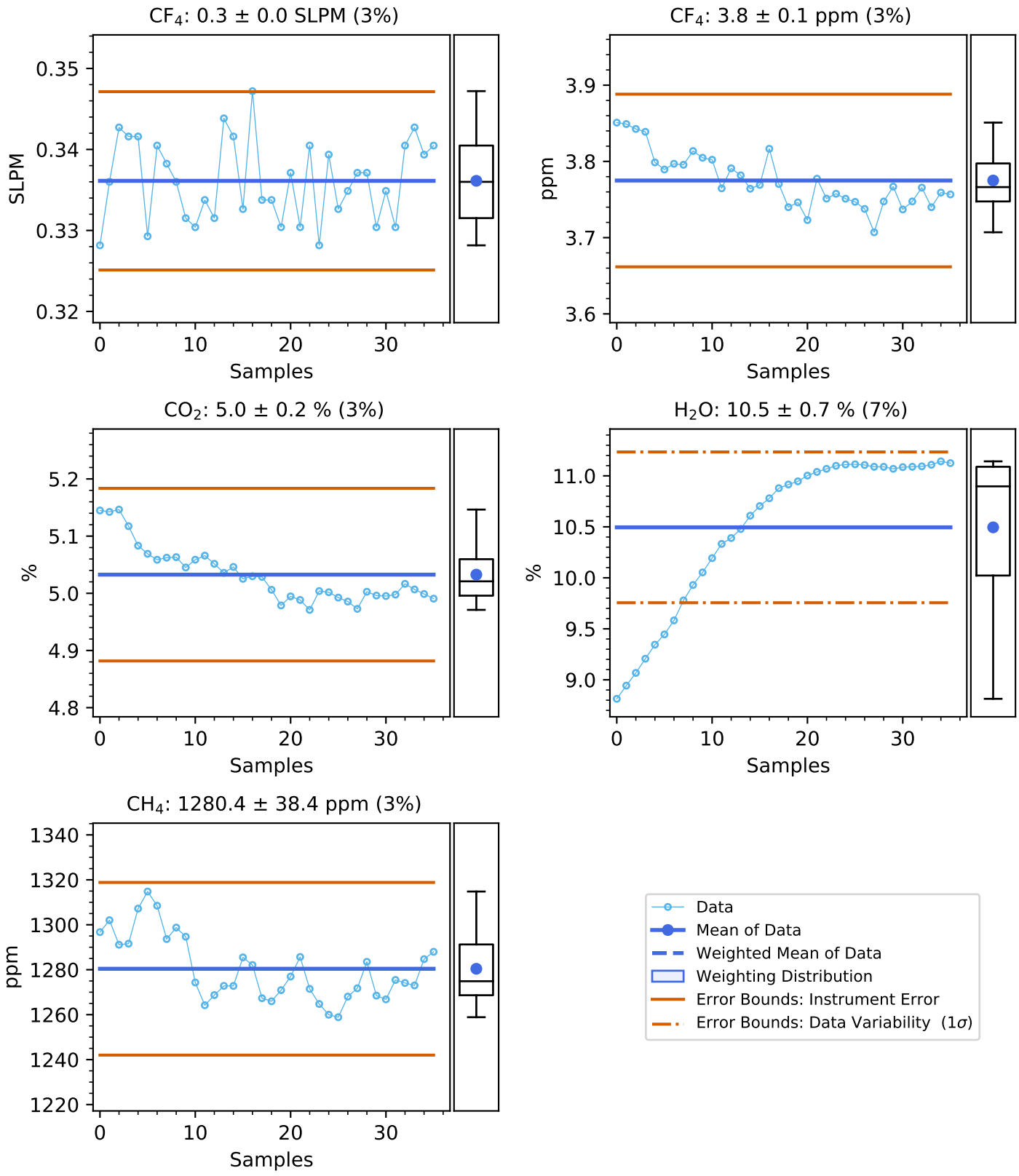


Facility: 2856 Unit: 3 Test: 2



Facility: 2494 Unit: 1 Test: 1



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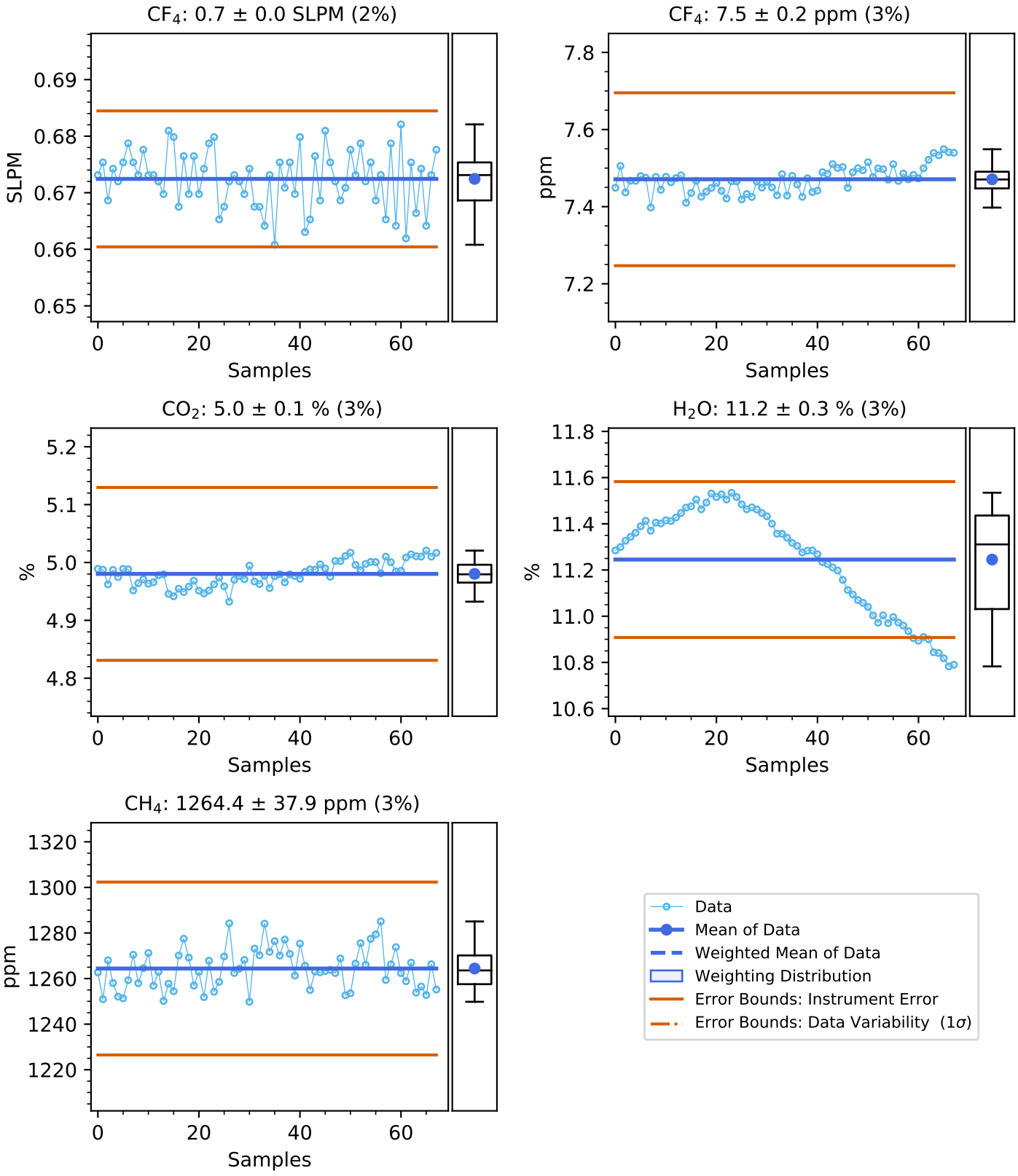
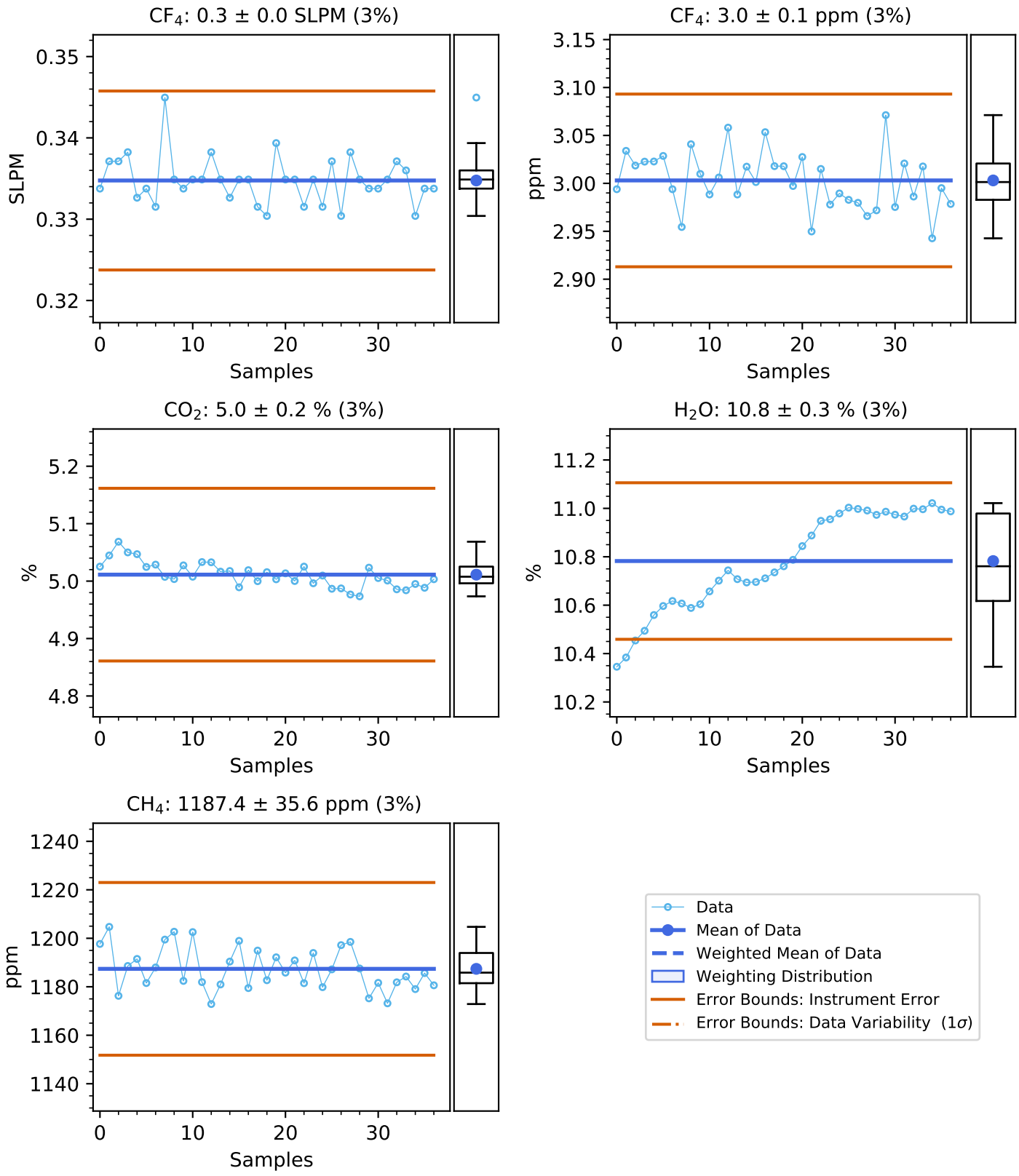
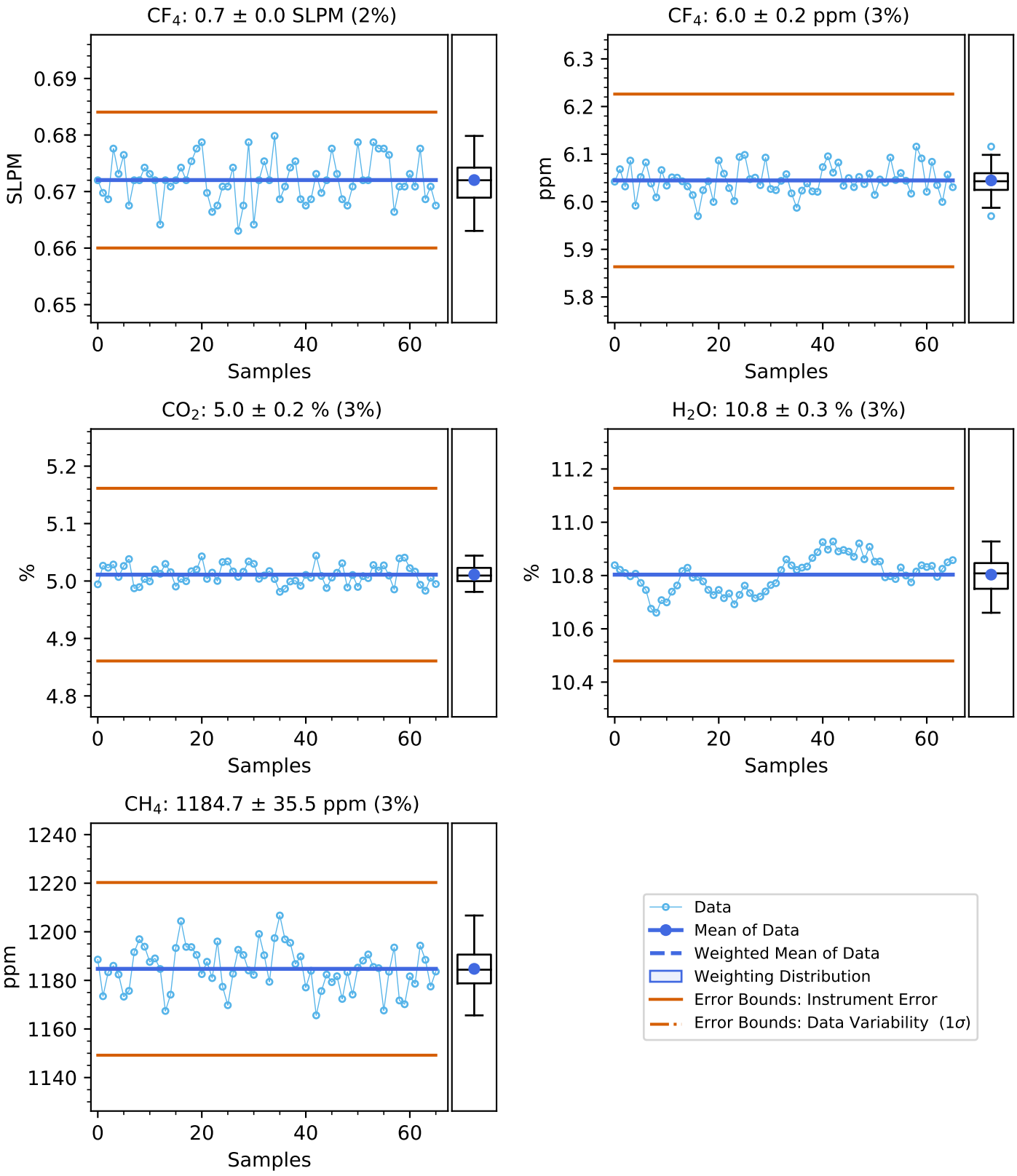


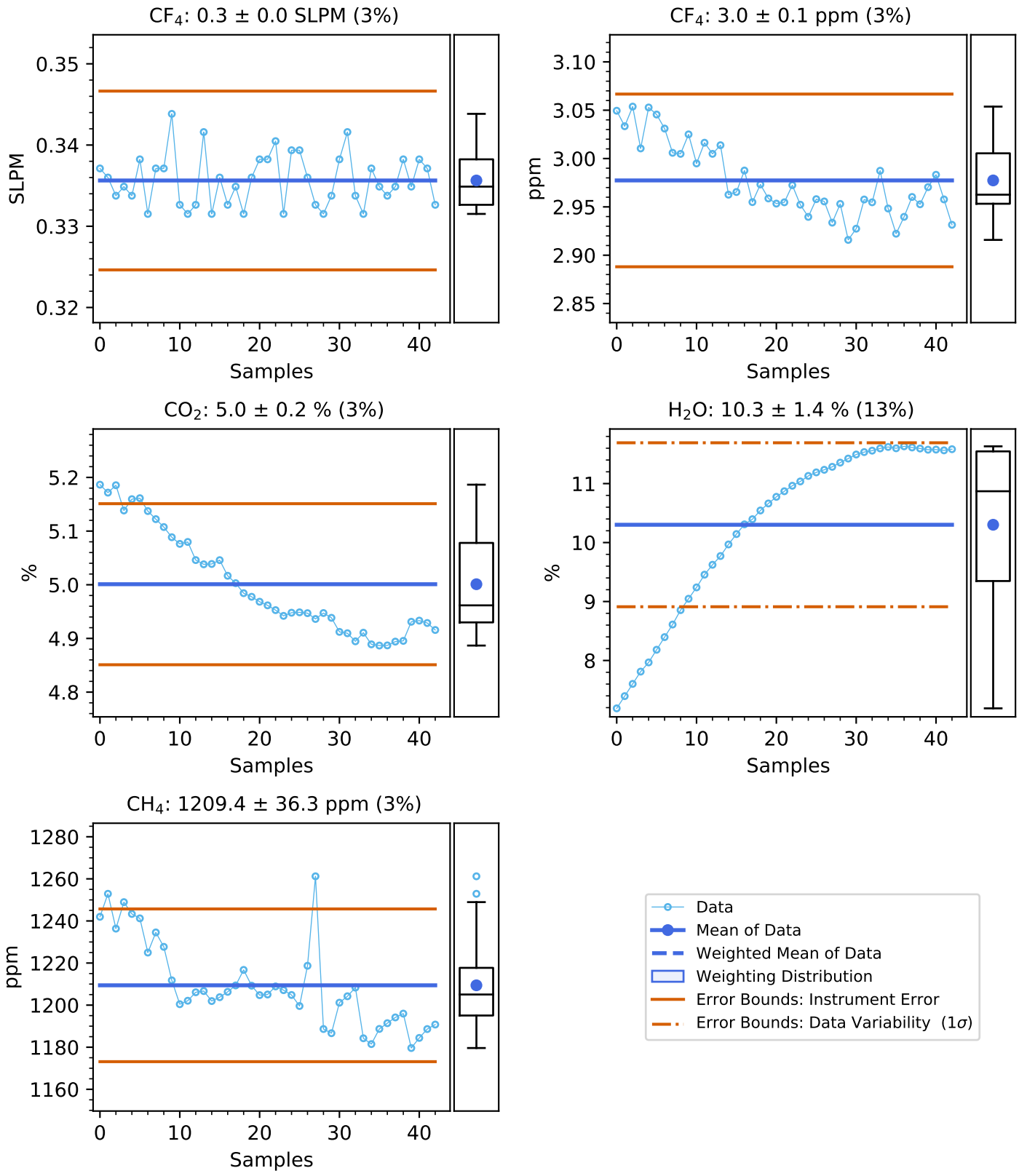
Facility: 2494 Unit: 2 Test: 1



Facility: 2494 Unit: 2 Test: 2



Facility: 2494 Unit: 3 Test: 1



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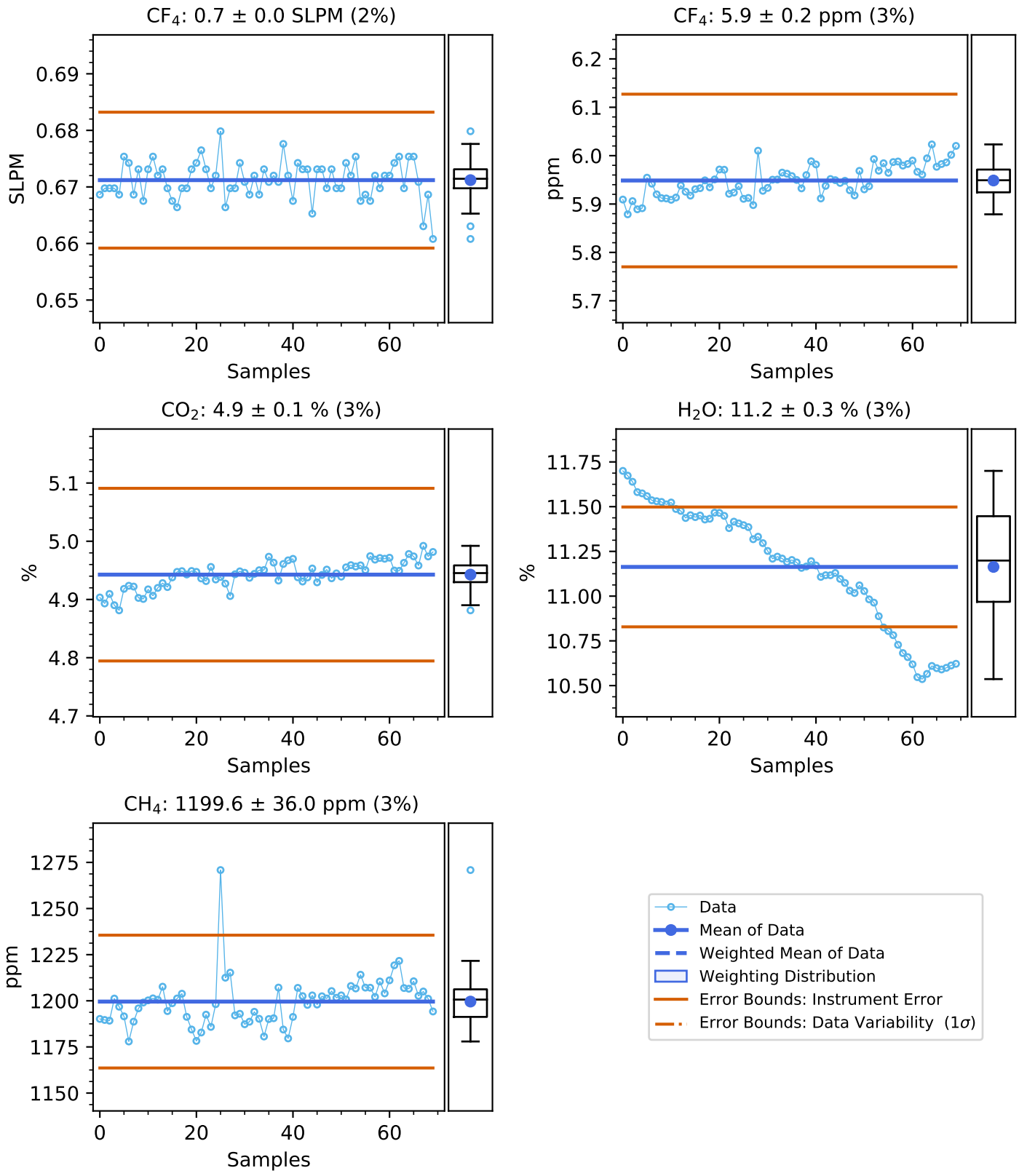
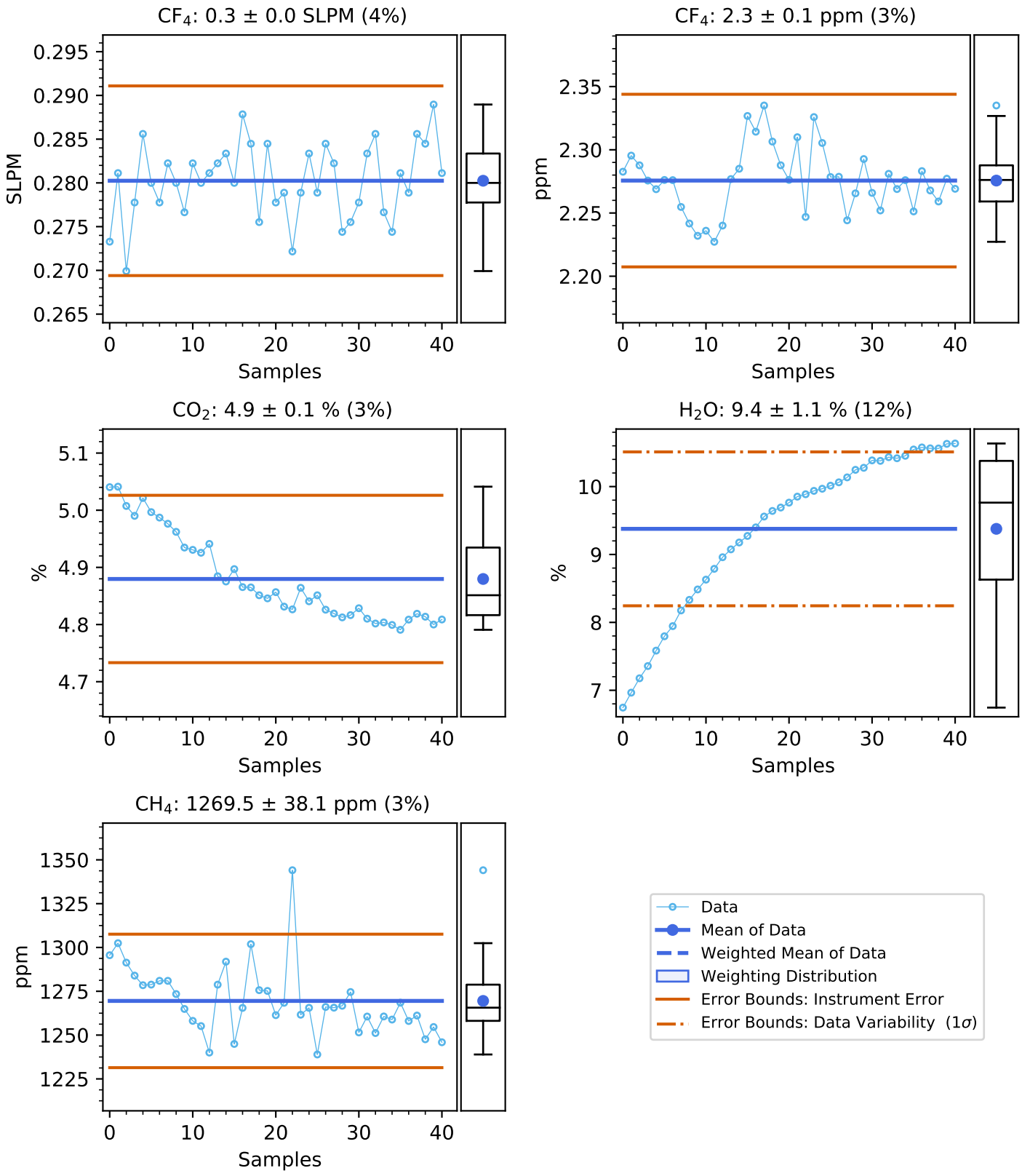


Facility: 2494 Unit: 4 Test: 1



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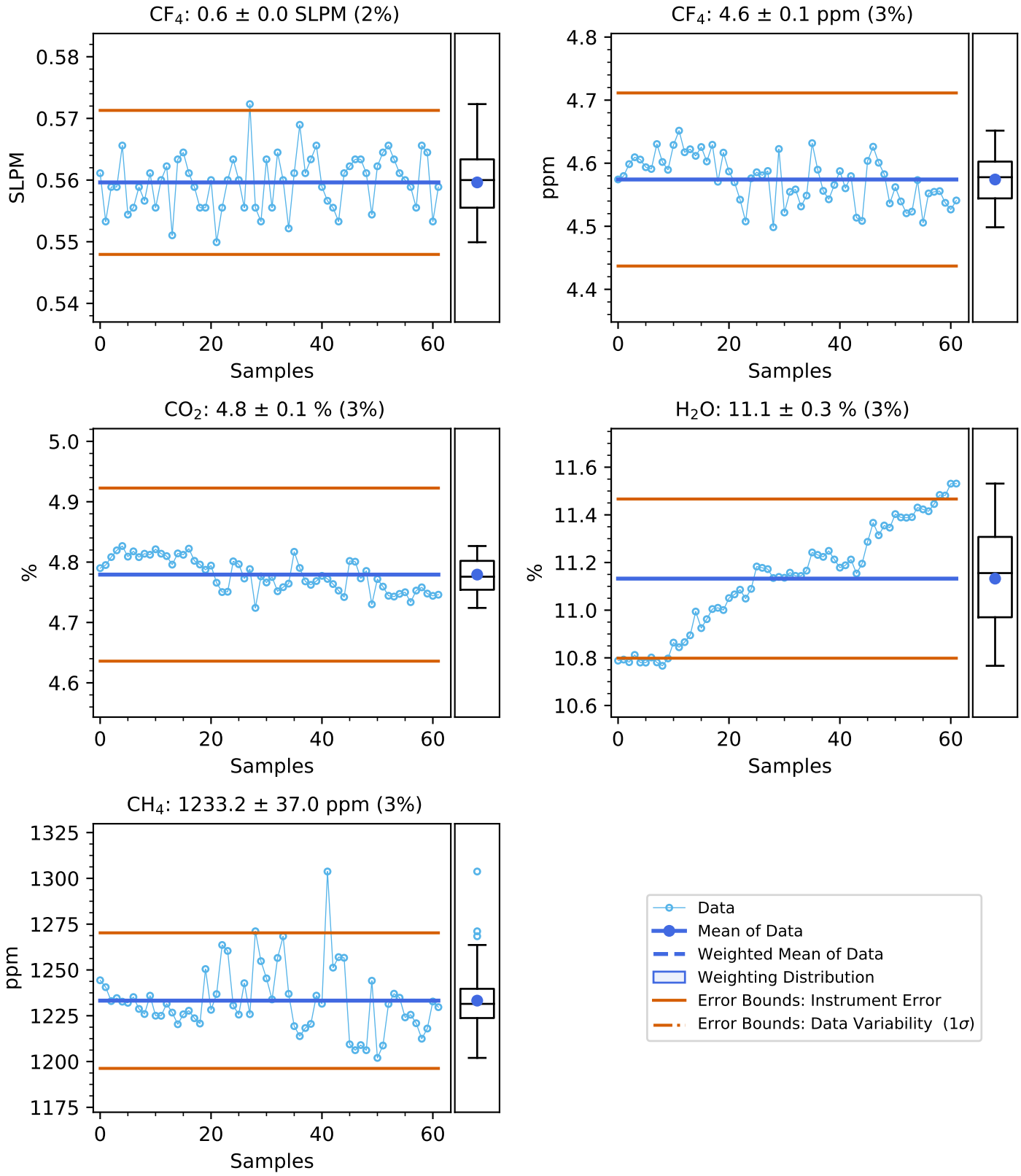
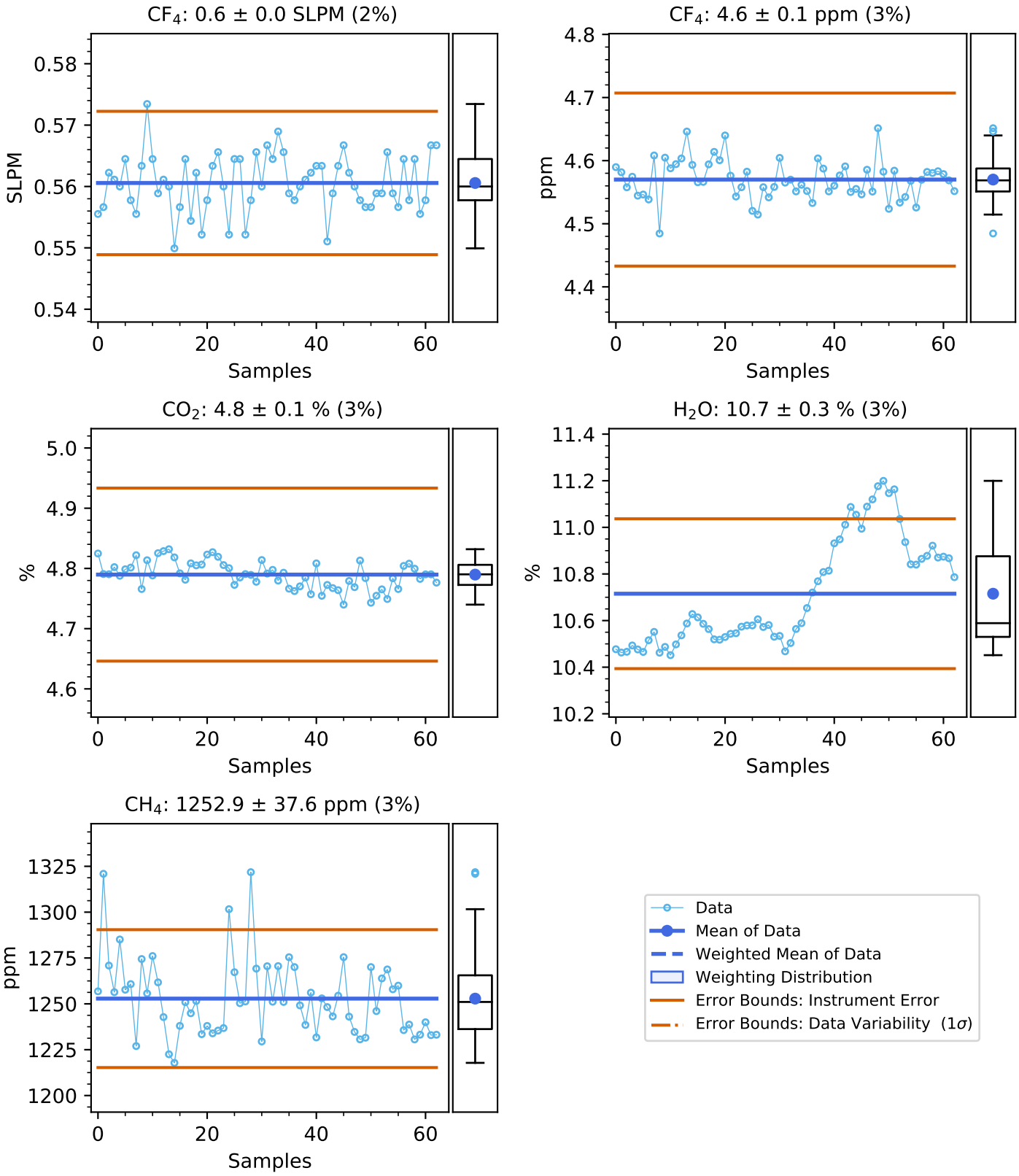
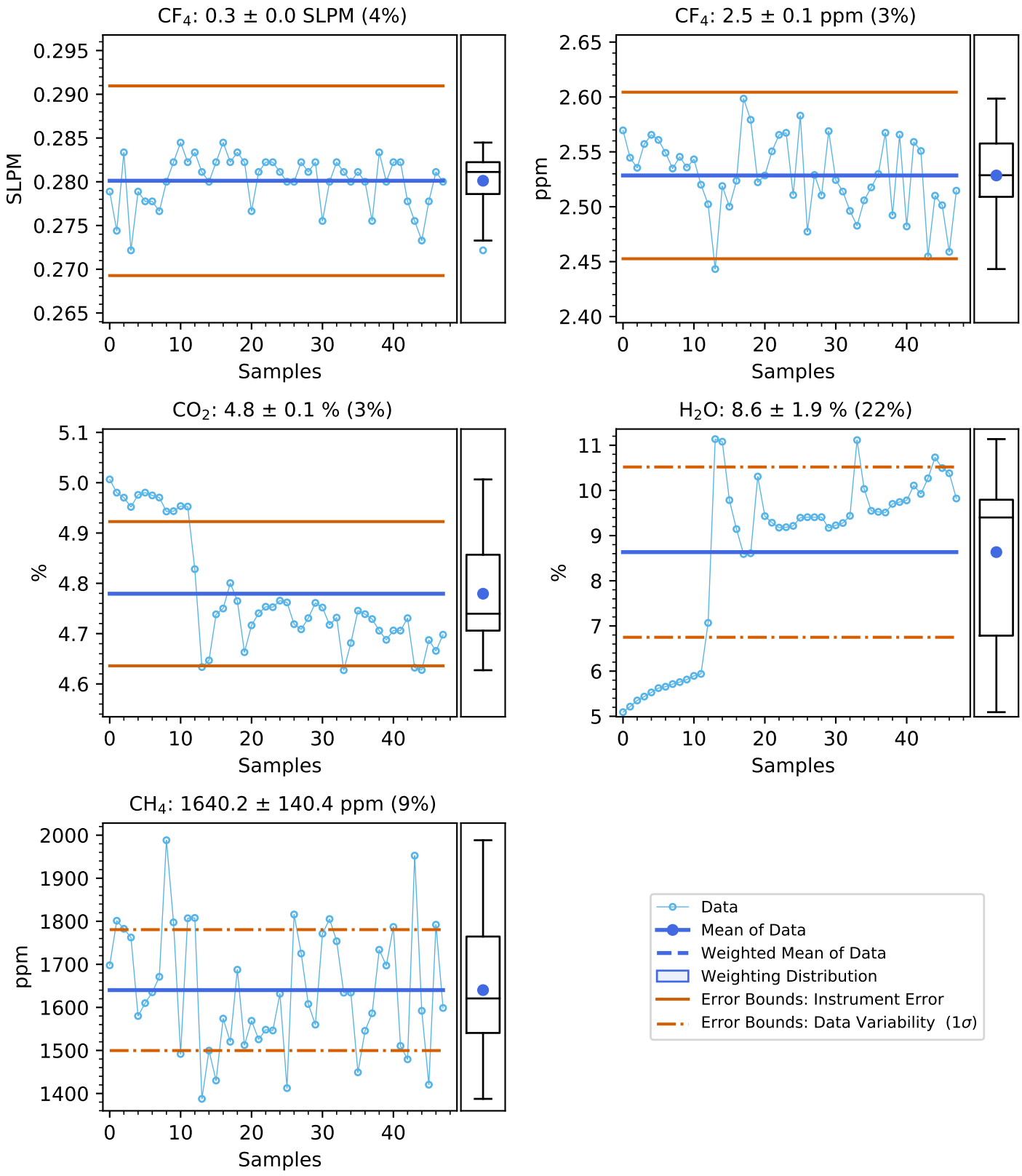


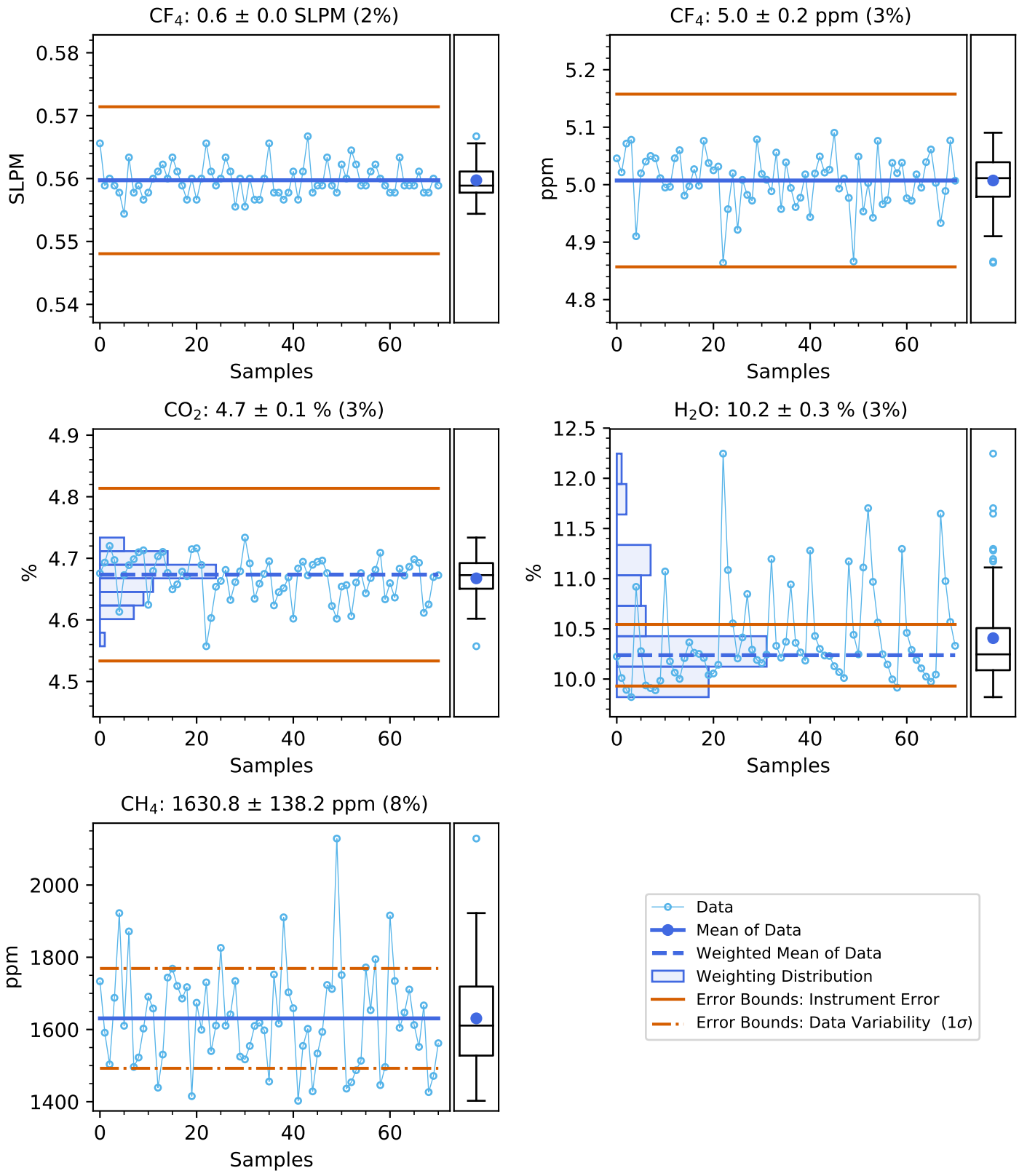
Facility: 2494 Unit: 4 Test: 3



Facility: 1785 Unit: 1 Test: 1



Facility: 1785 Unit: 1 Test: 2



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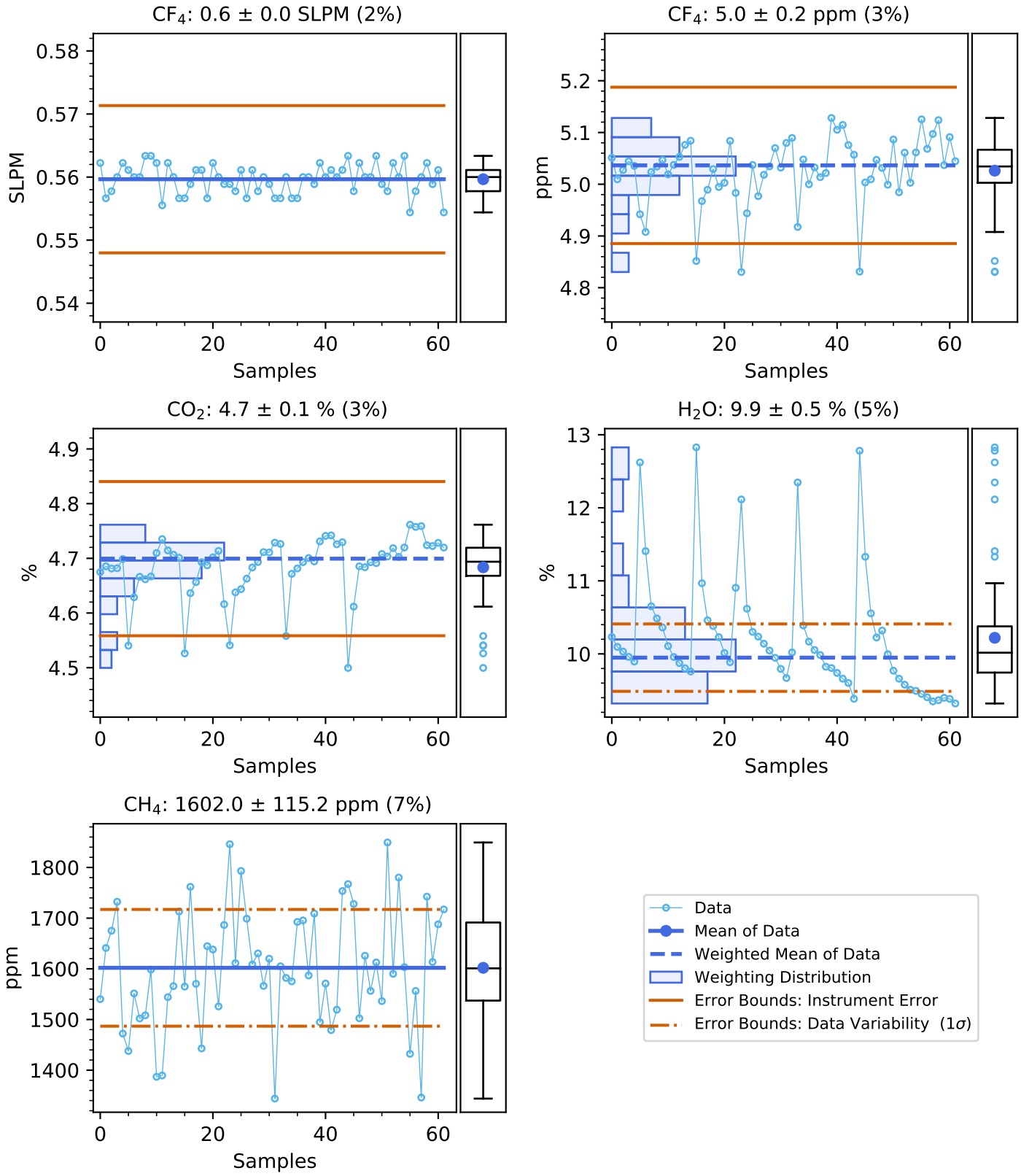
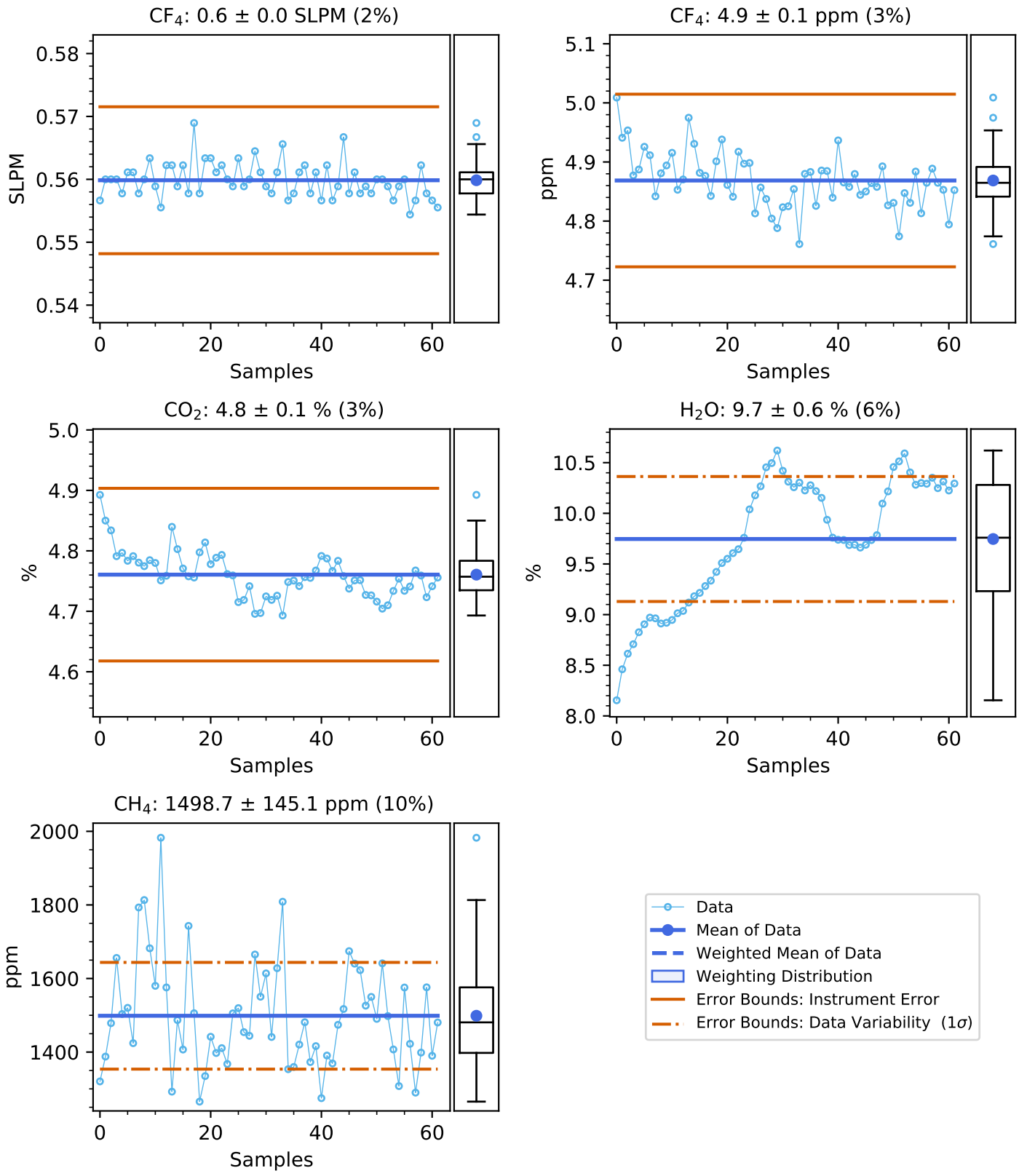


Facility: 1785 Unit: 2 Test: 1



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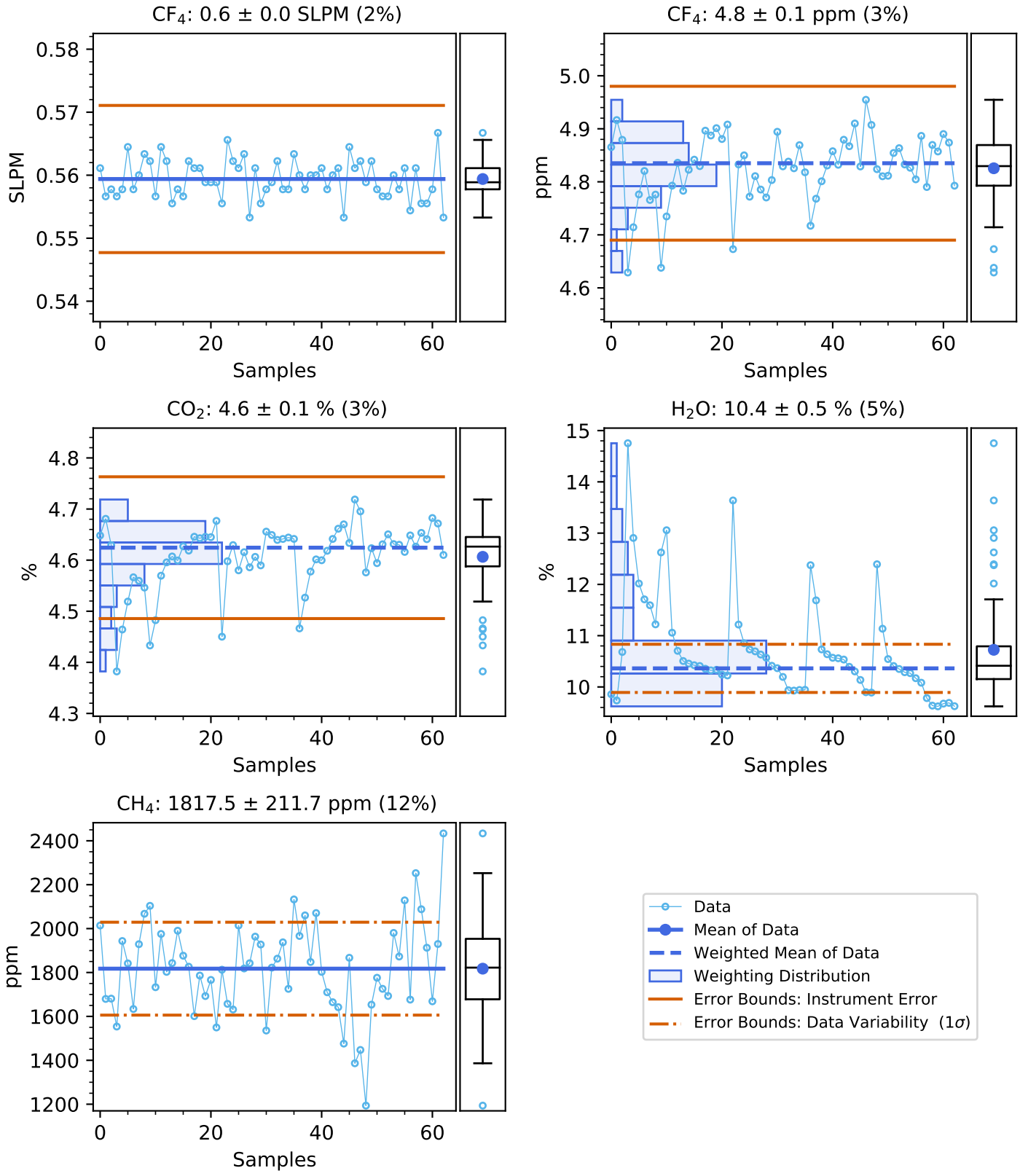

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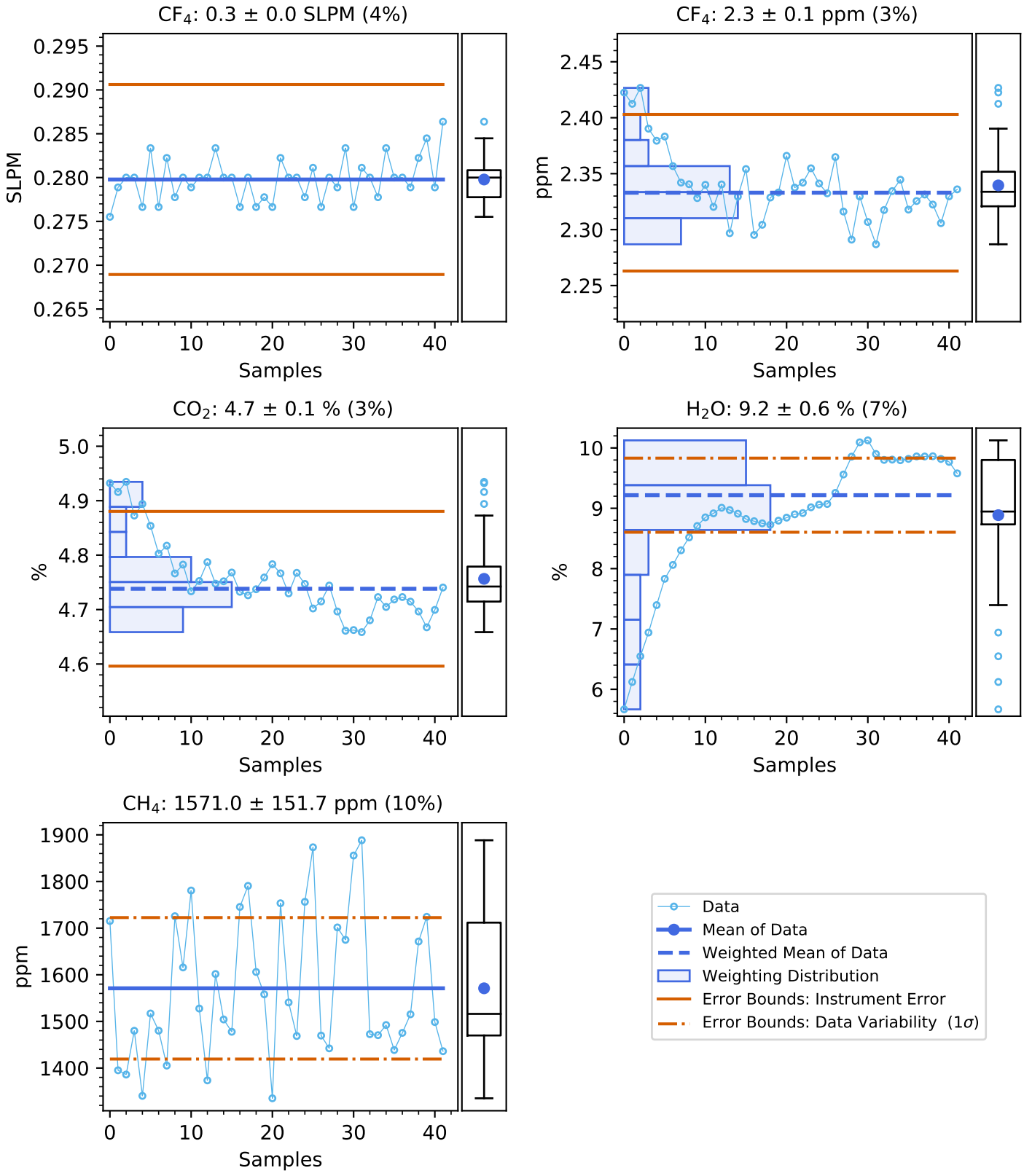

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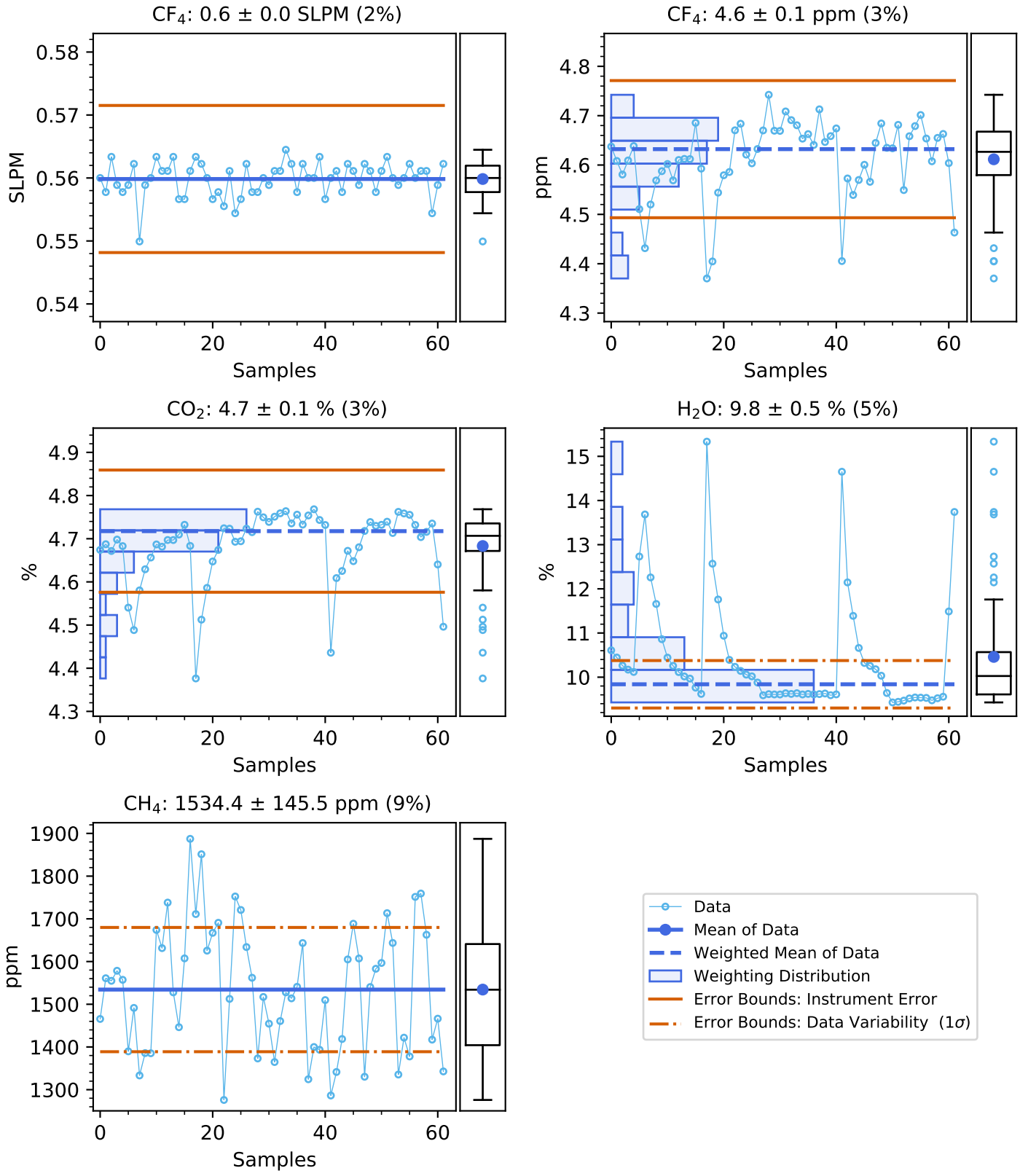

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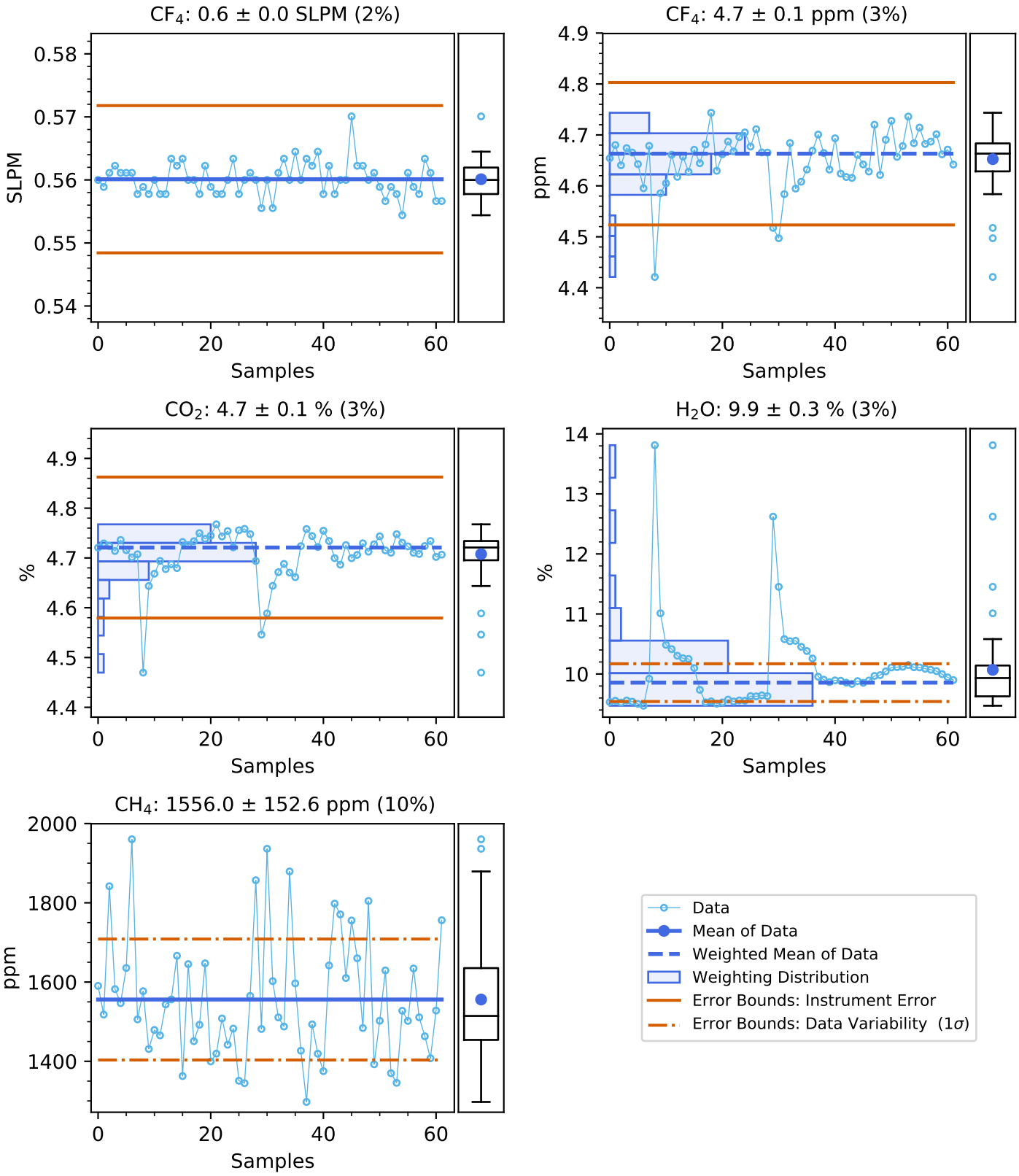
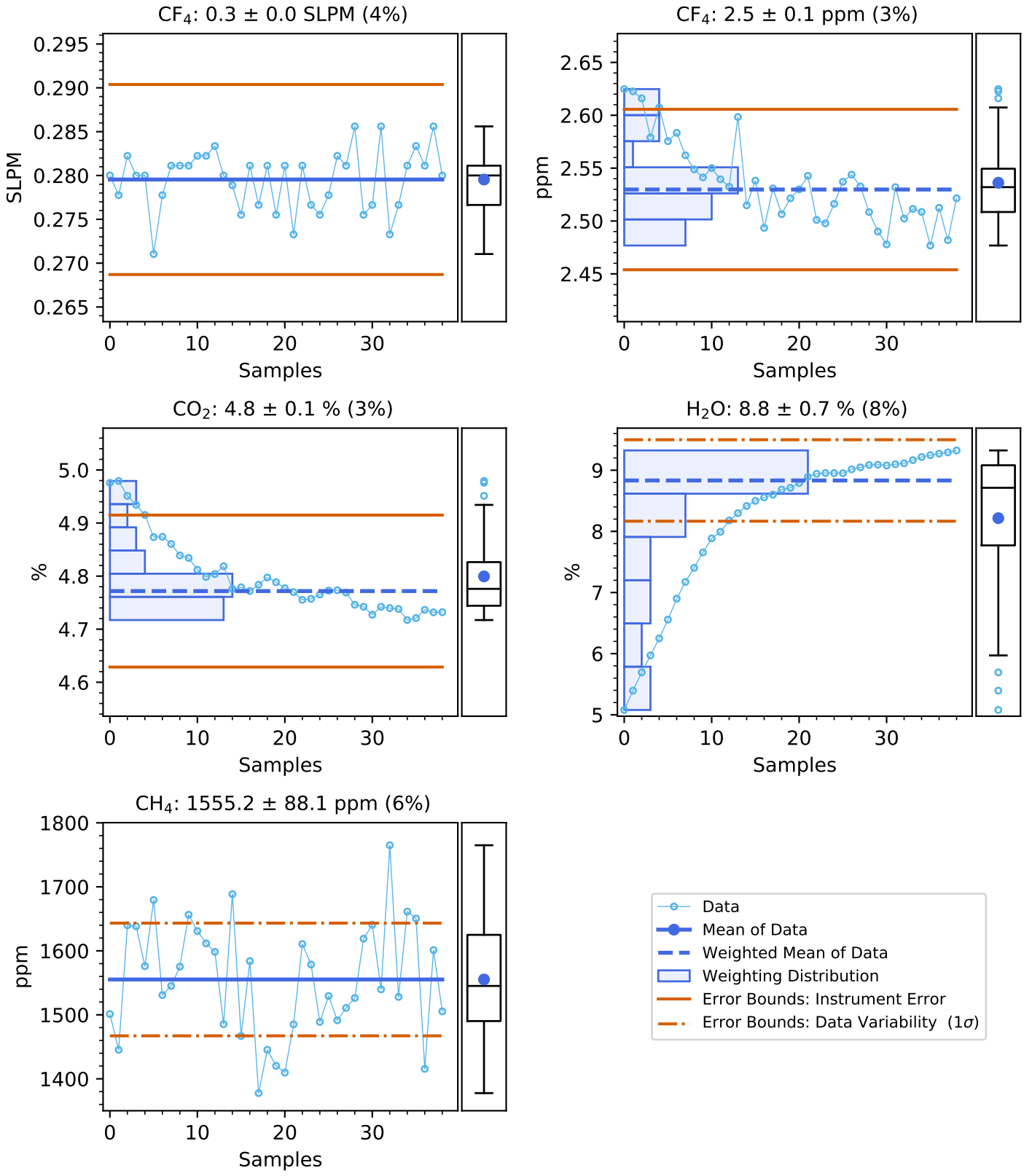


Facility: 1785 Unit: 5 Test: 1



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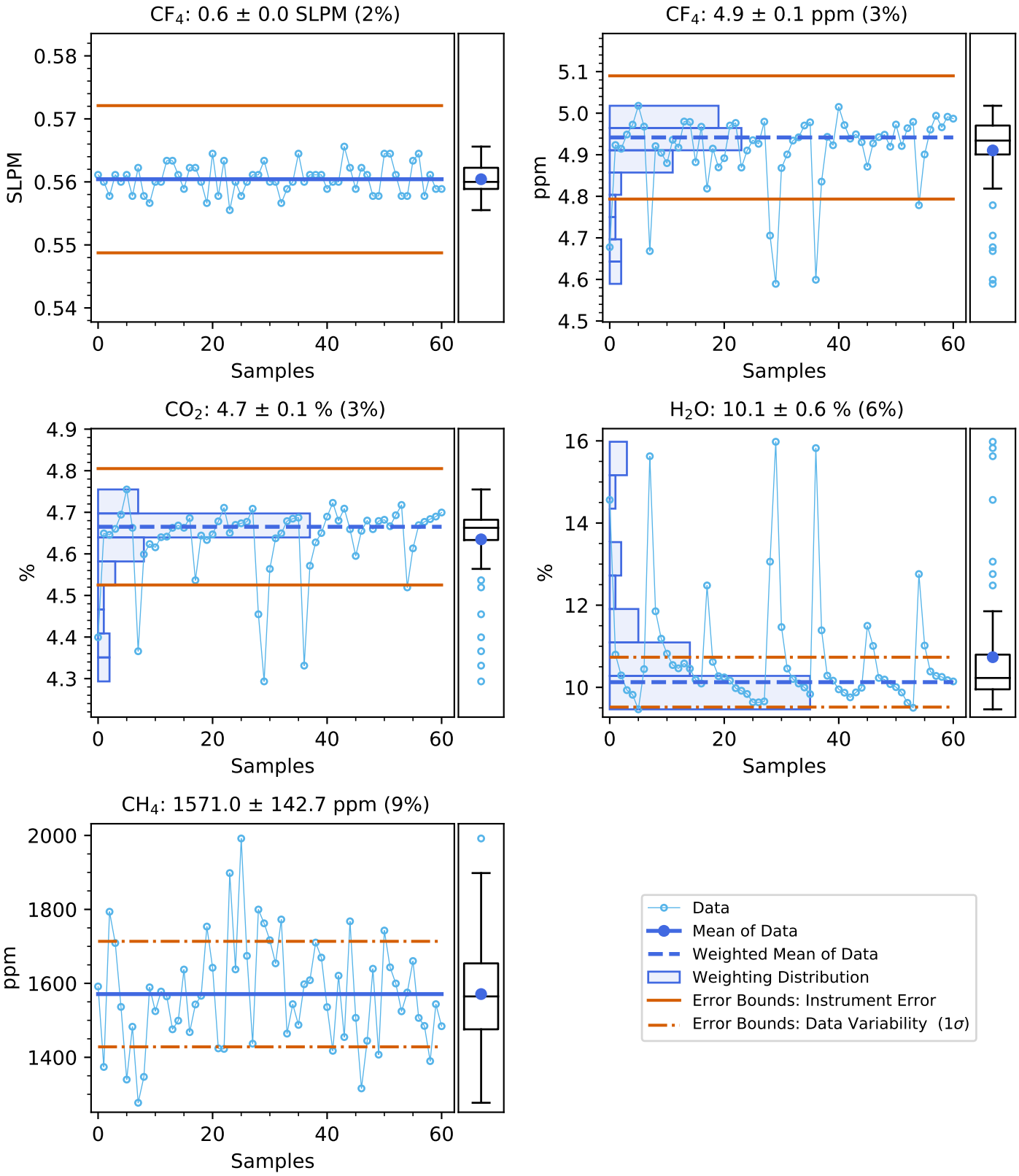
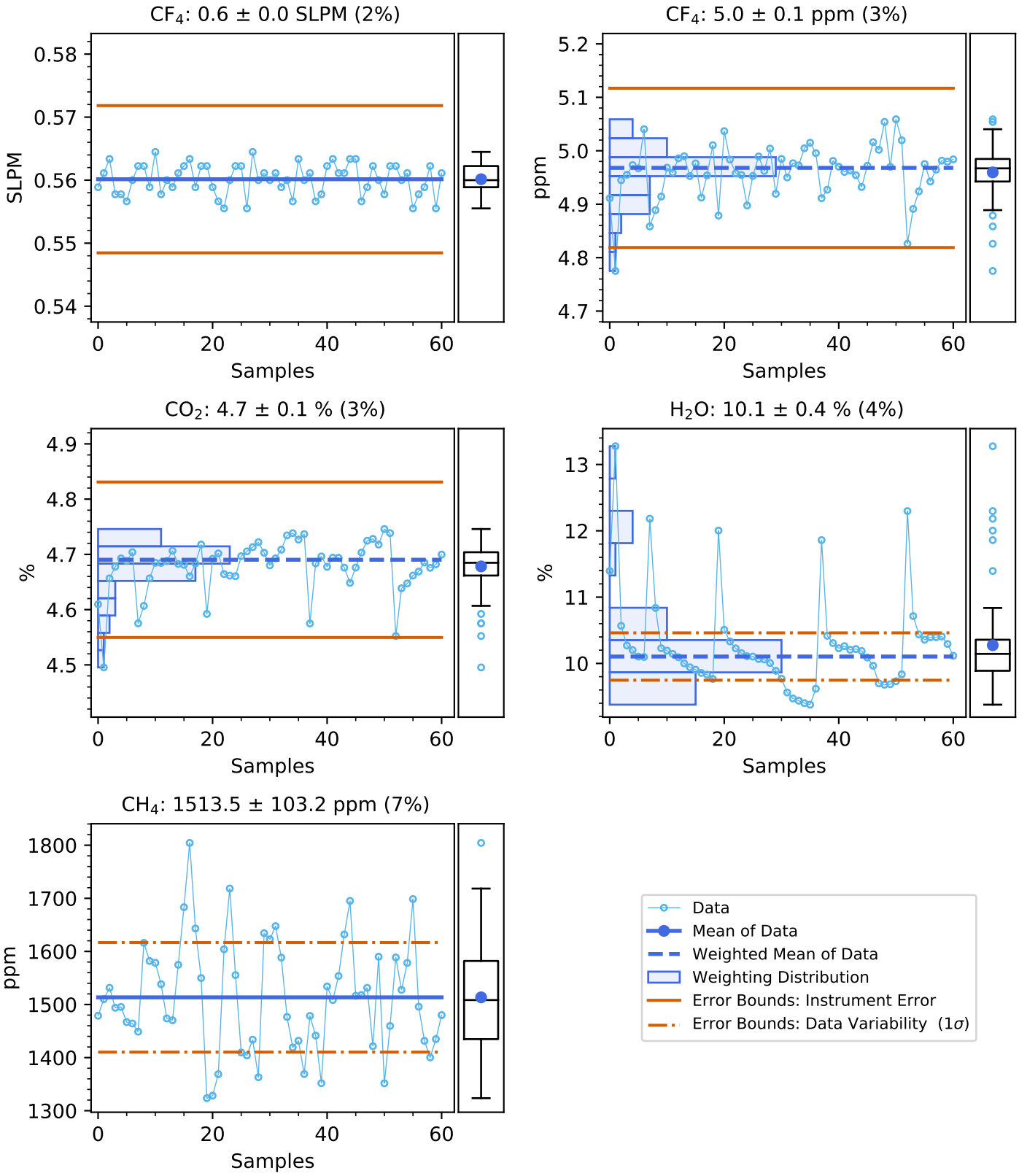
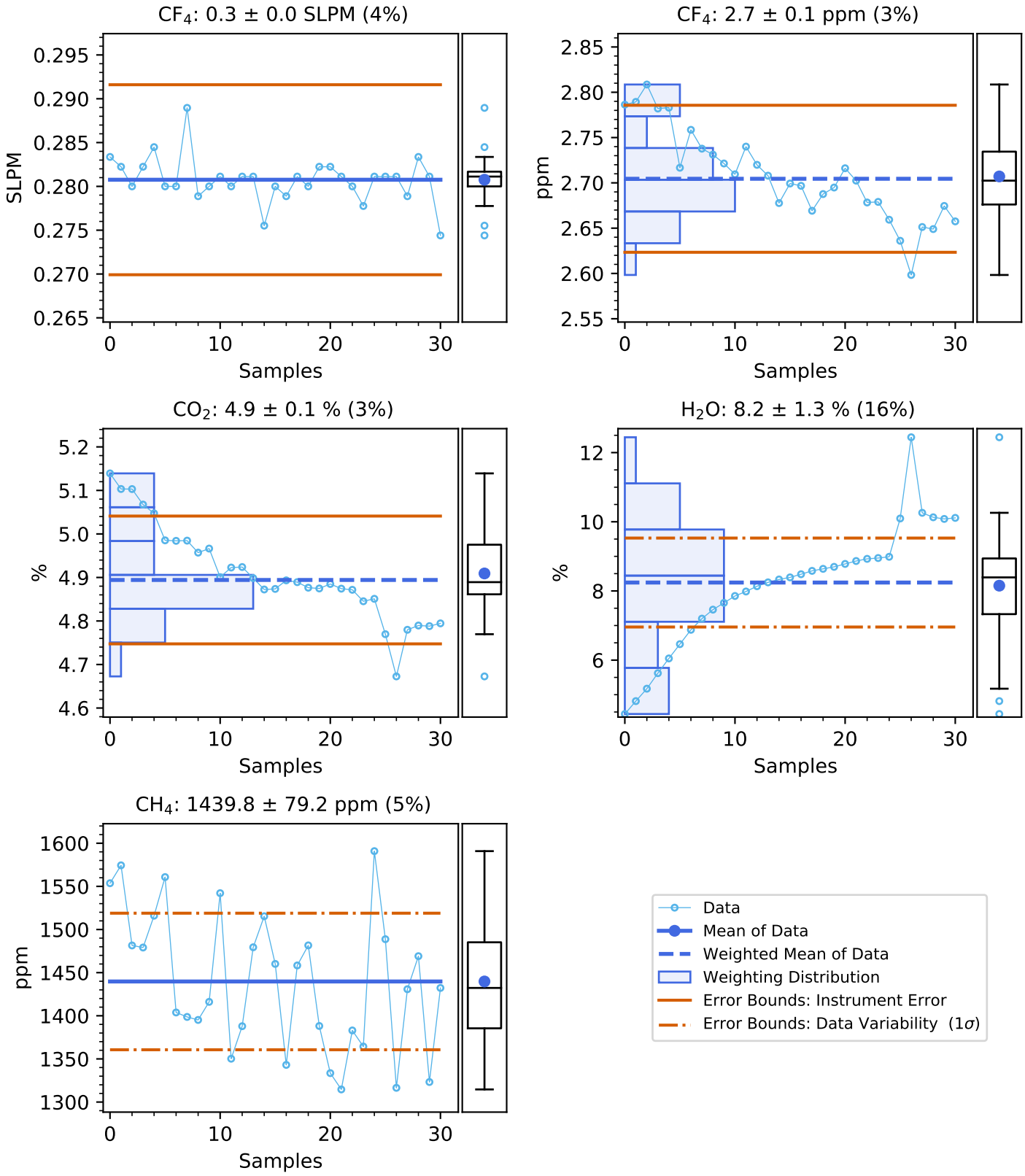


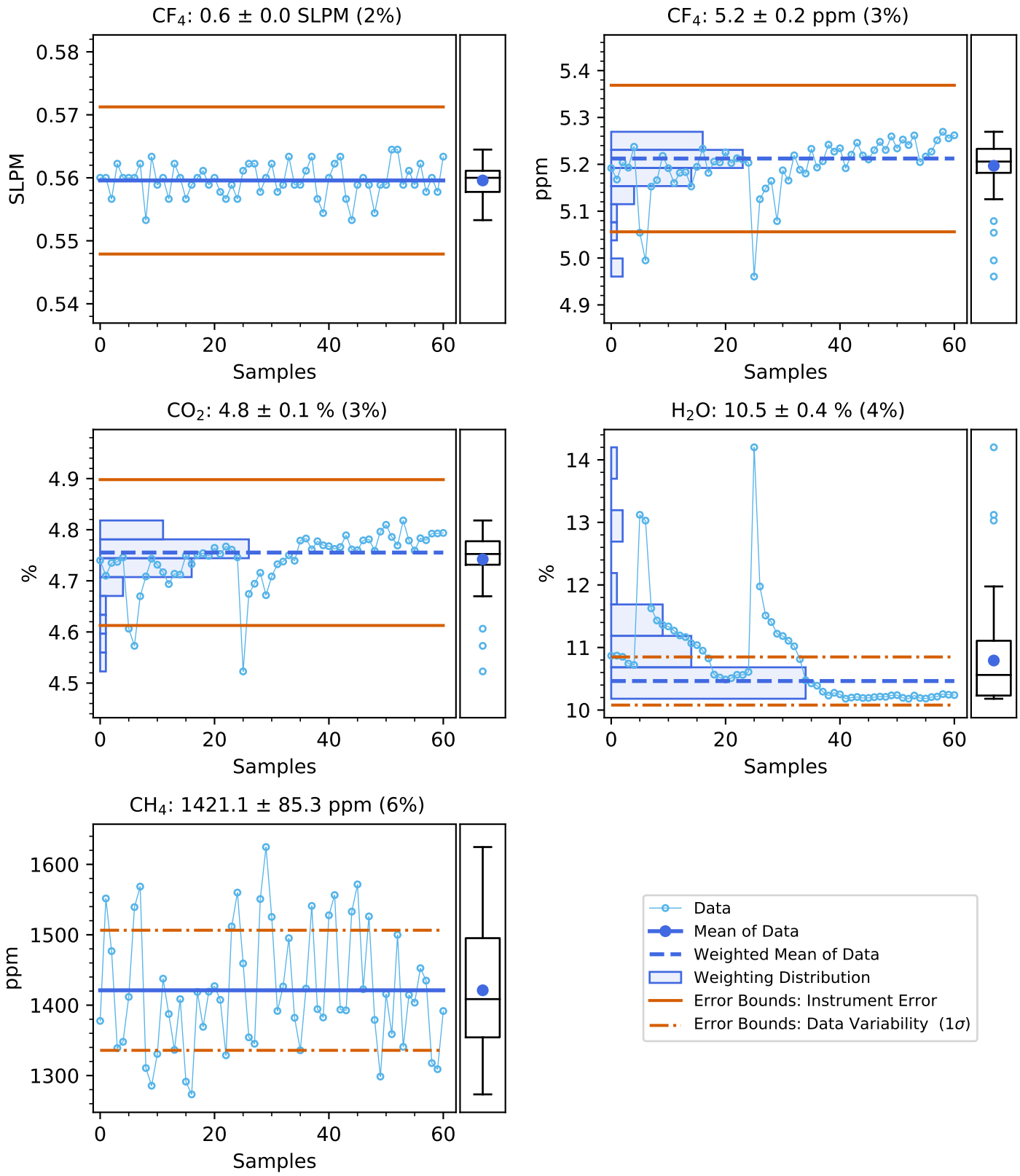
Facility: 1785 Unit: 5 Test: 3



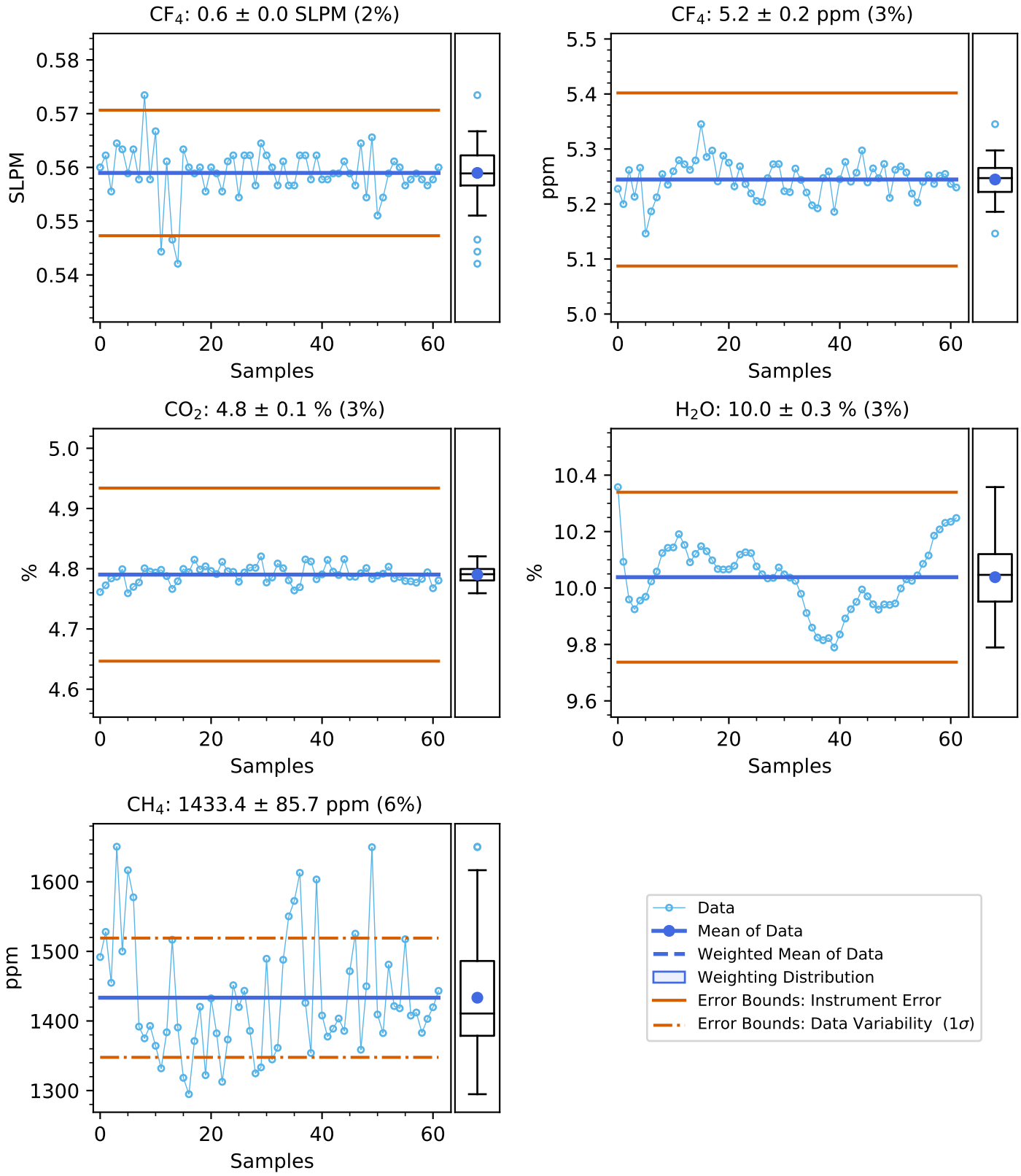
Facility: 1785 Unit: 6 Test: 1



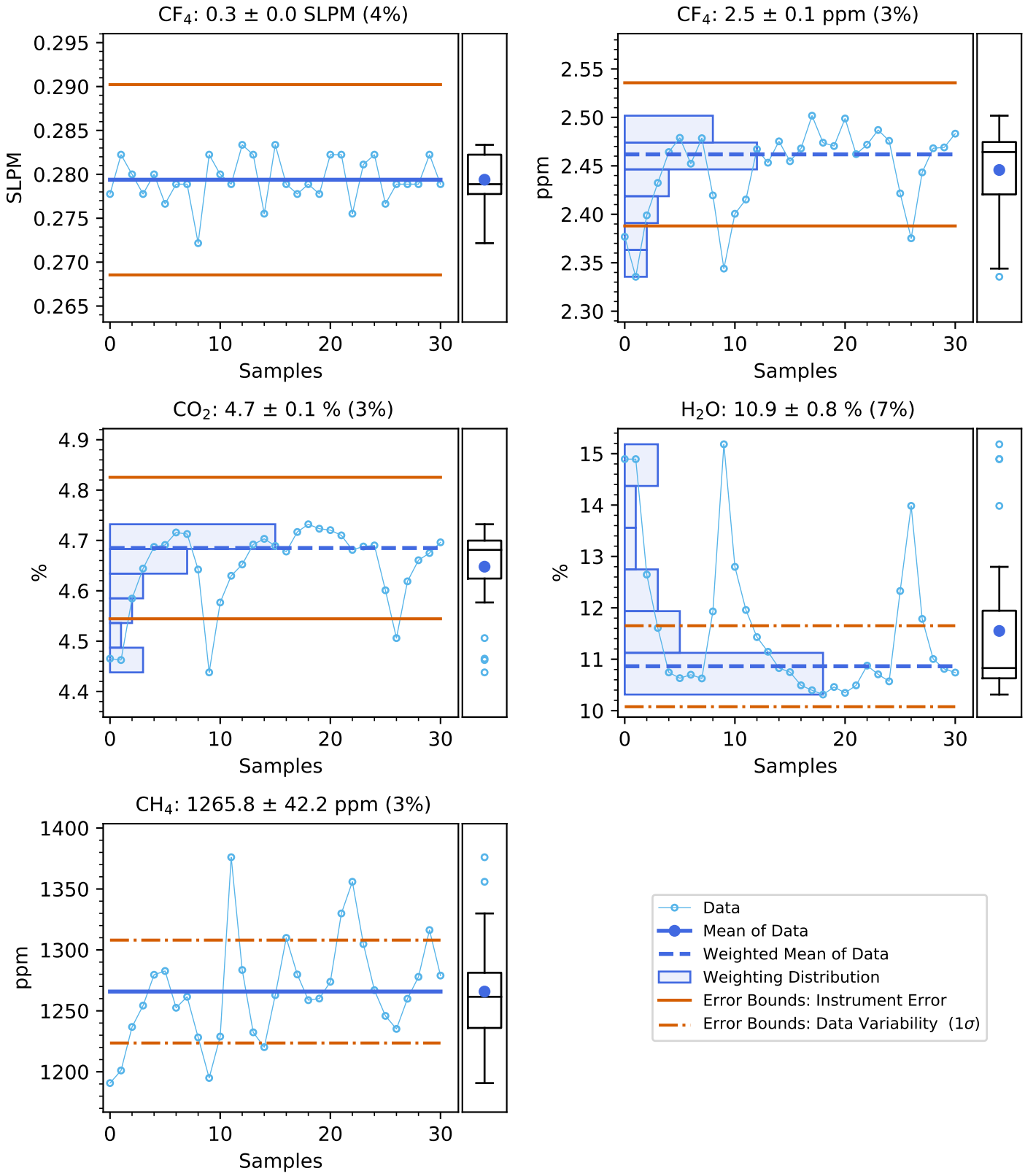
Facility: 1785 Unit: 6 Test: 2



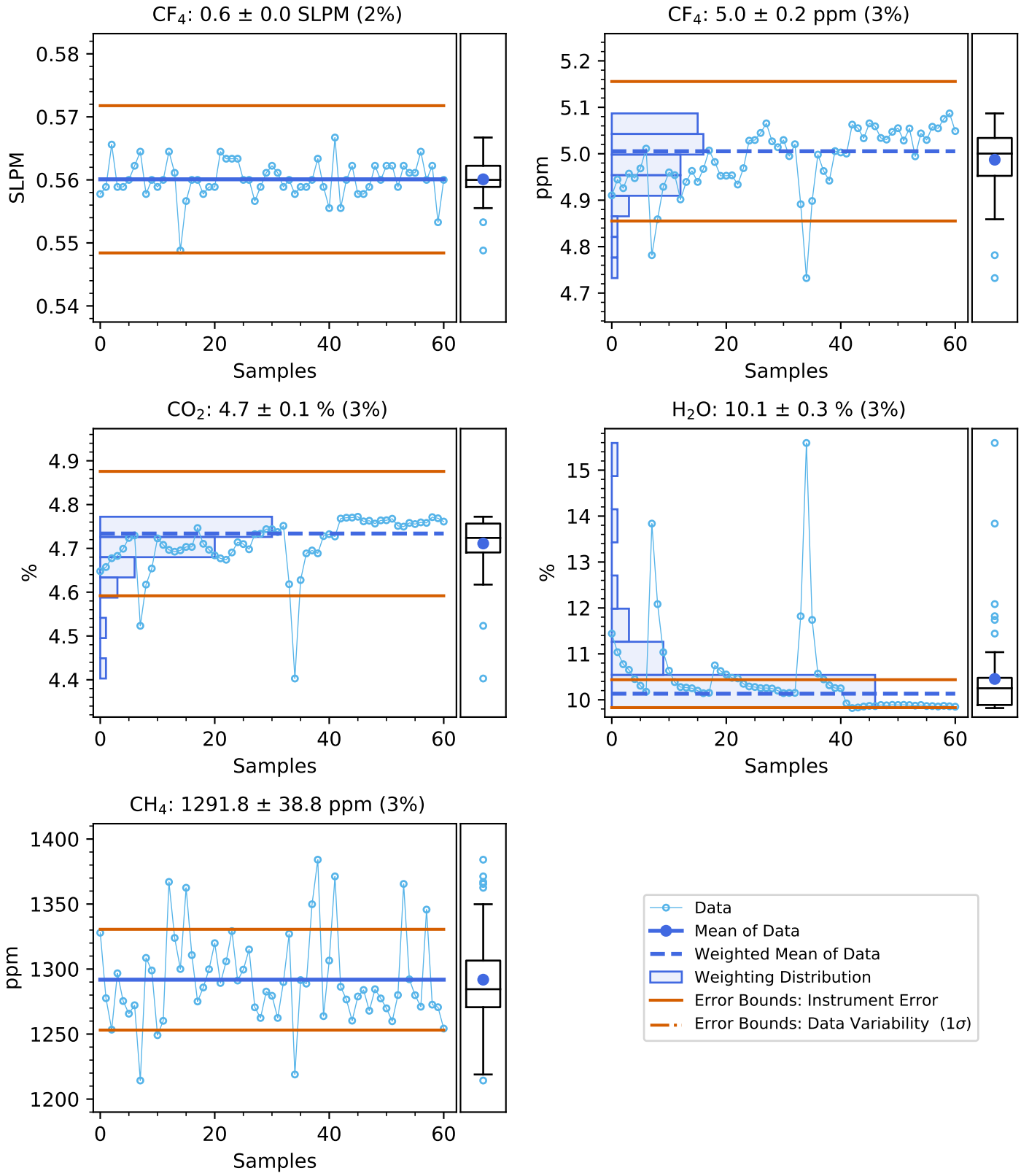
Facility: 1785 Unit: 6 Test: 3



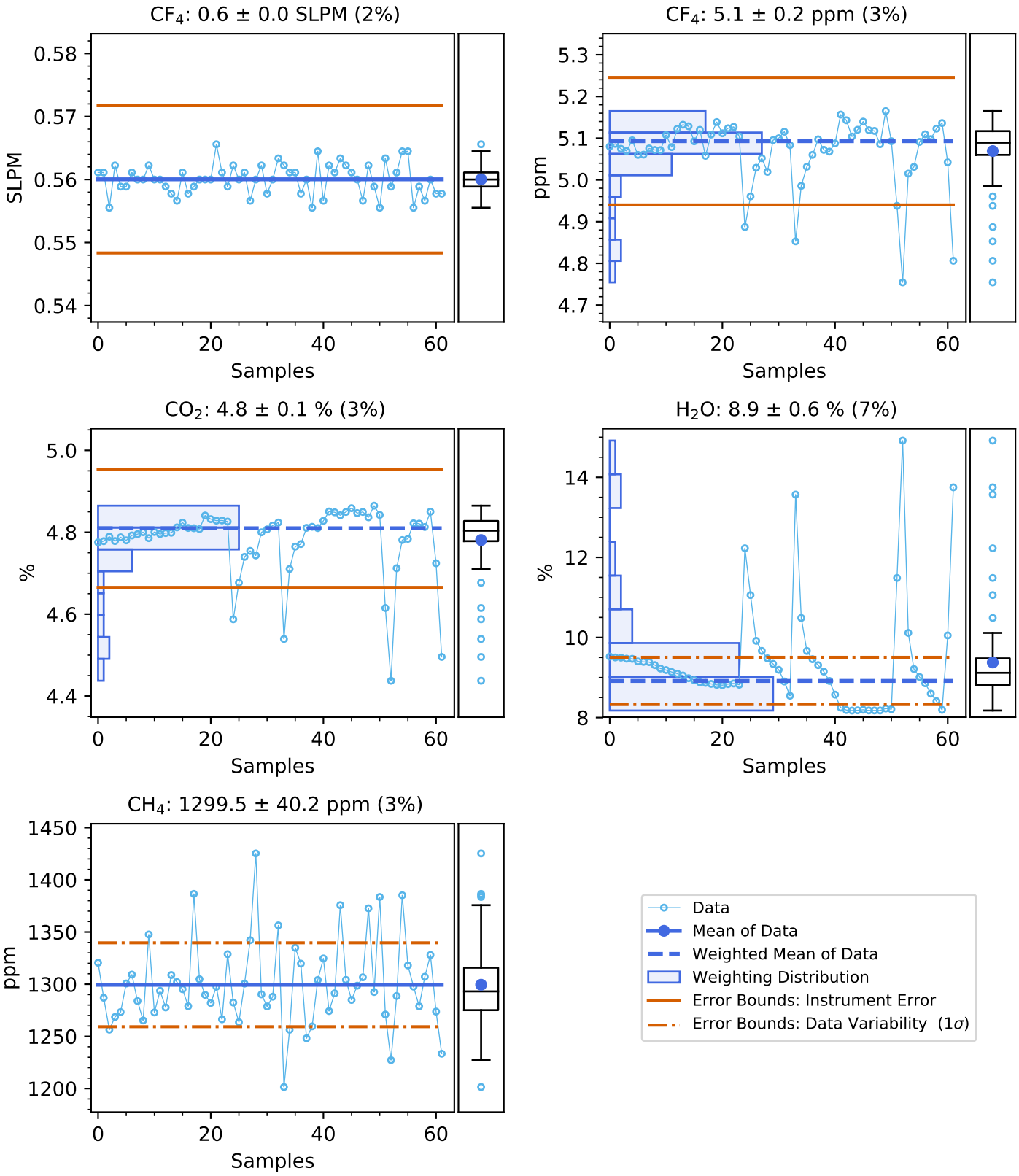
Facility: 1785 Unit: 7 Test: 1



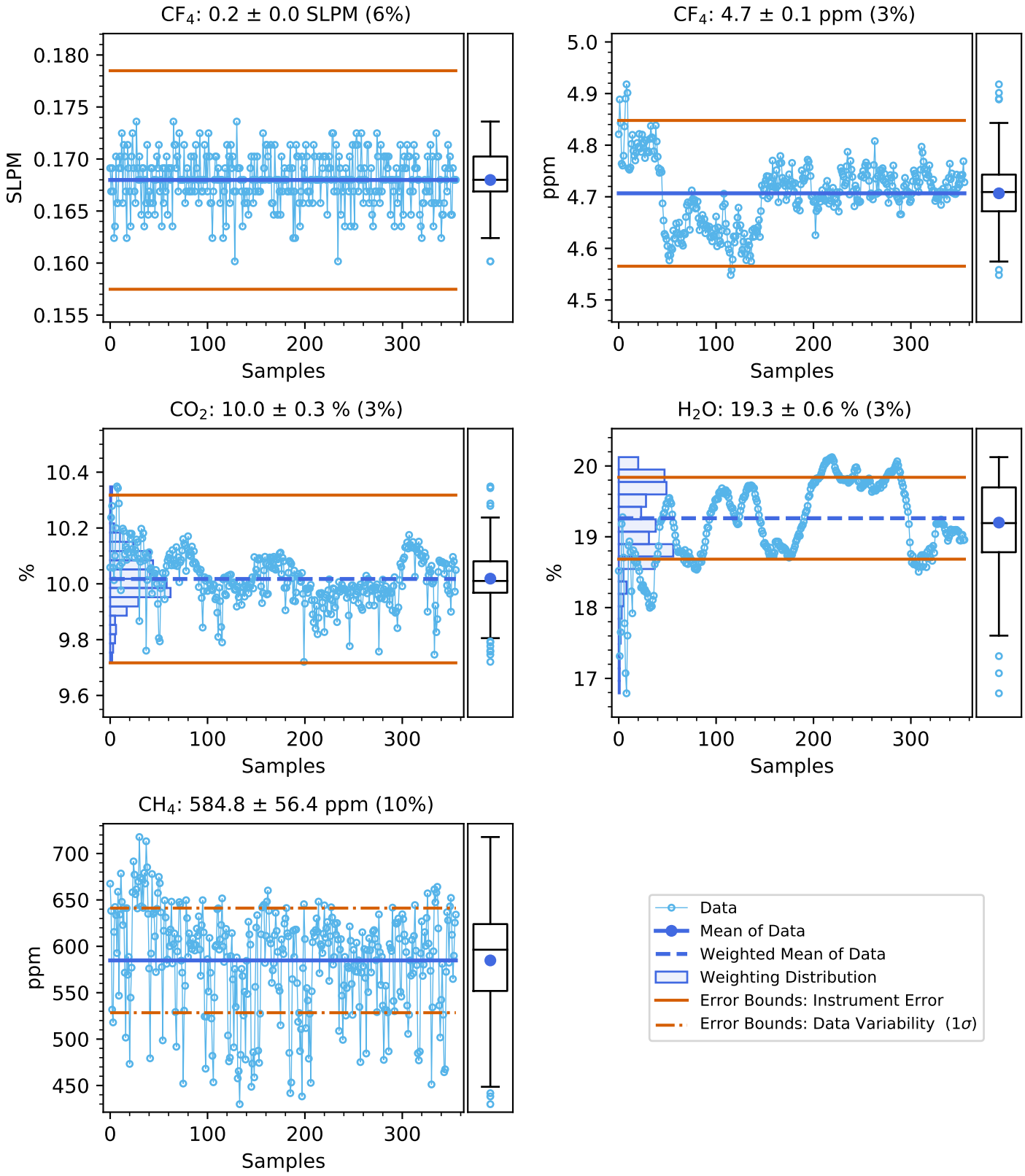
Facility: 1785 Unit: 7 Test: 2



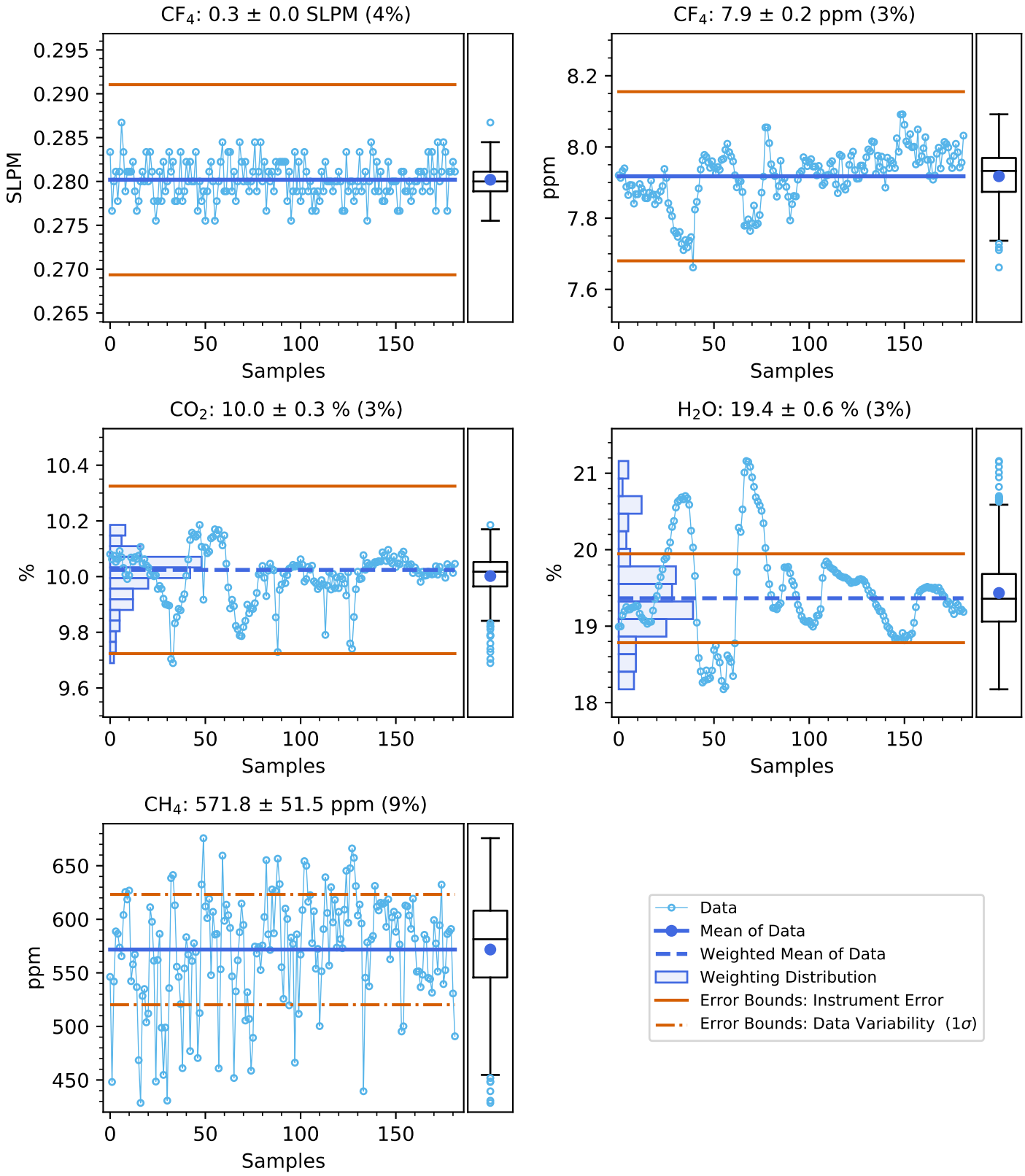
Facility: 1785 Unit: 7 Test: 3



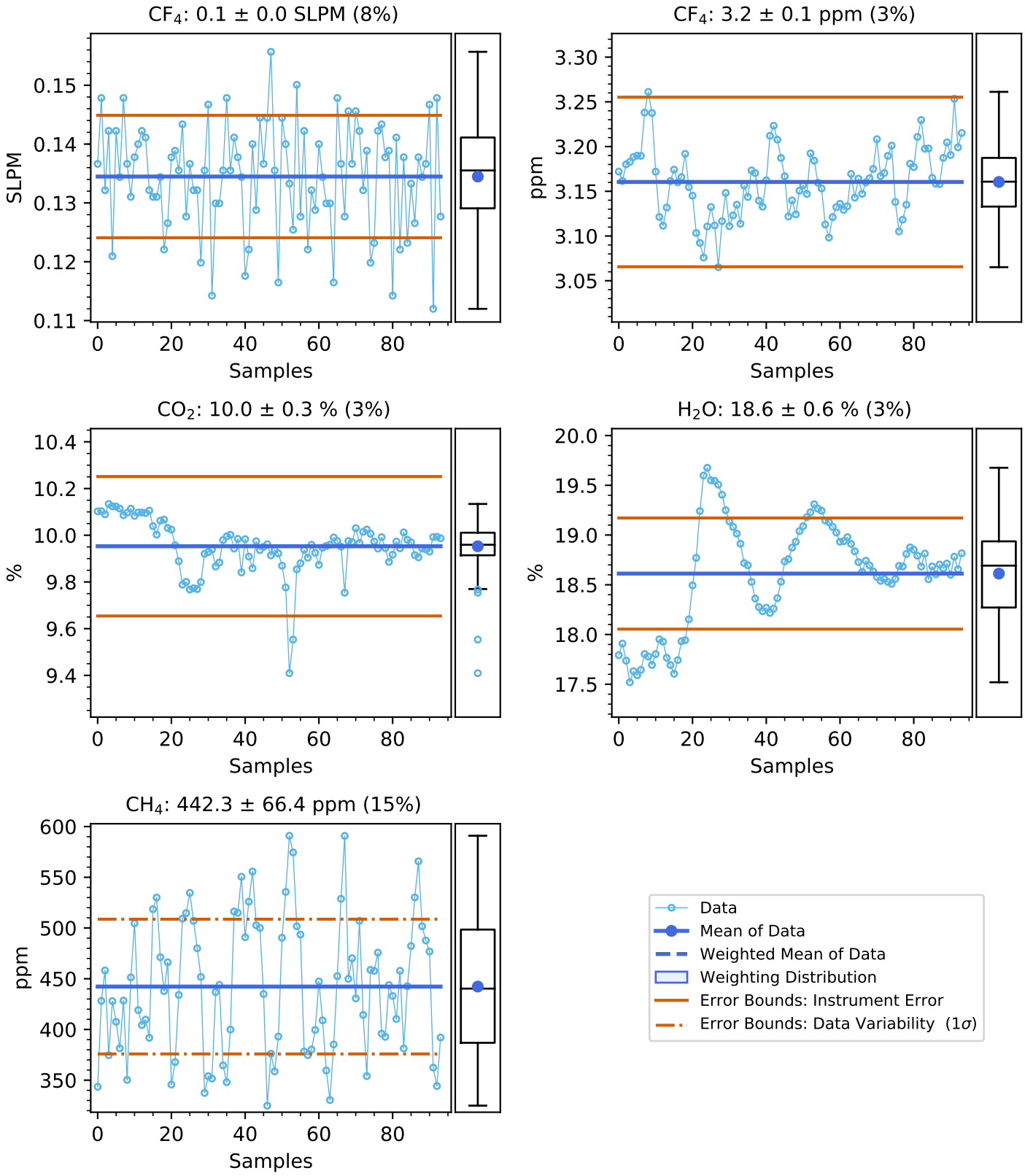
Facility: 765 Unit: 1 Test: 1



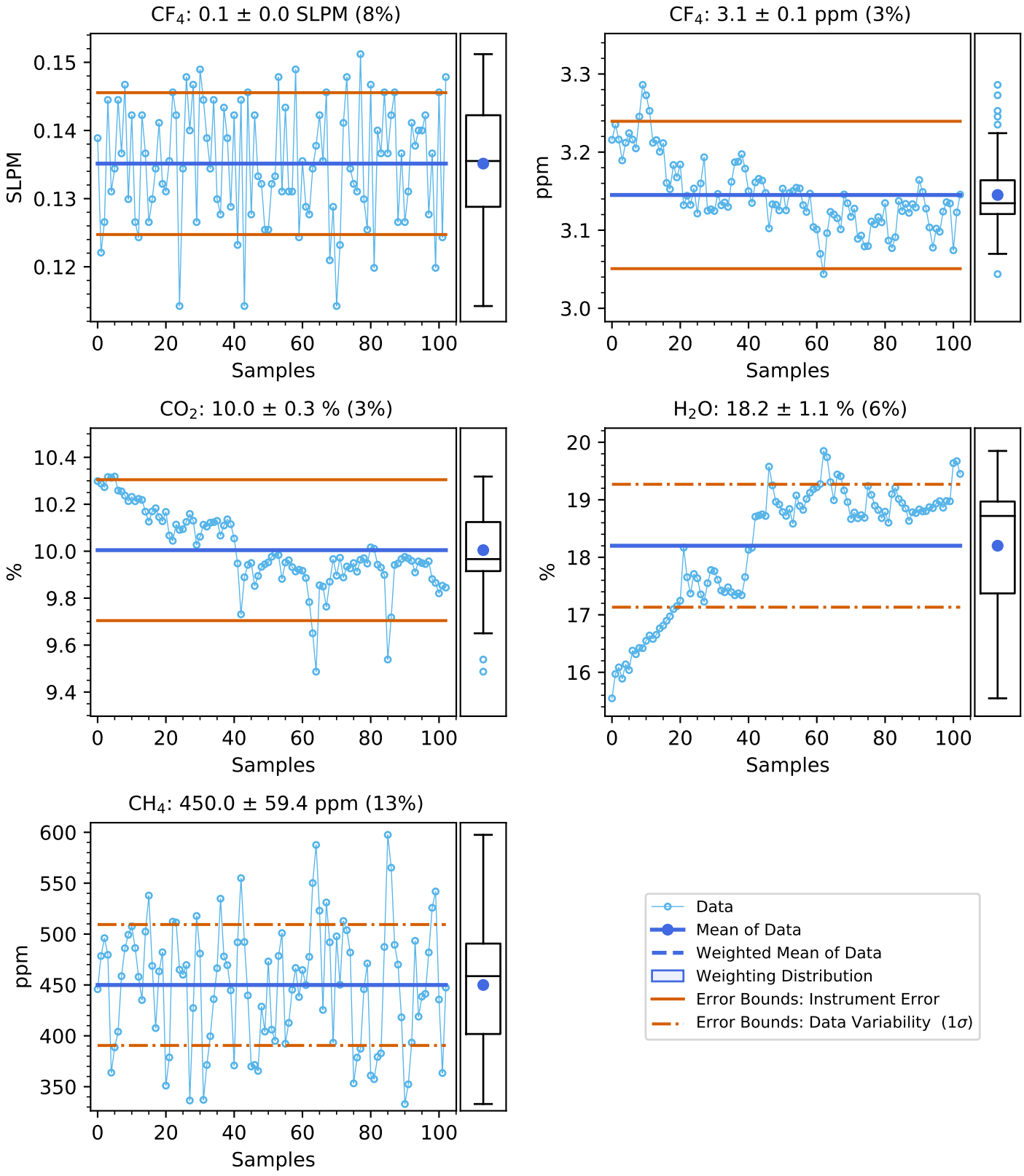
Facility: 765 Unit: 1 Test: 2



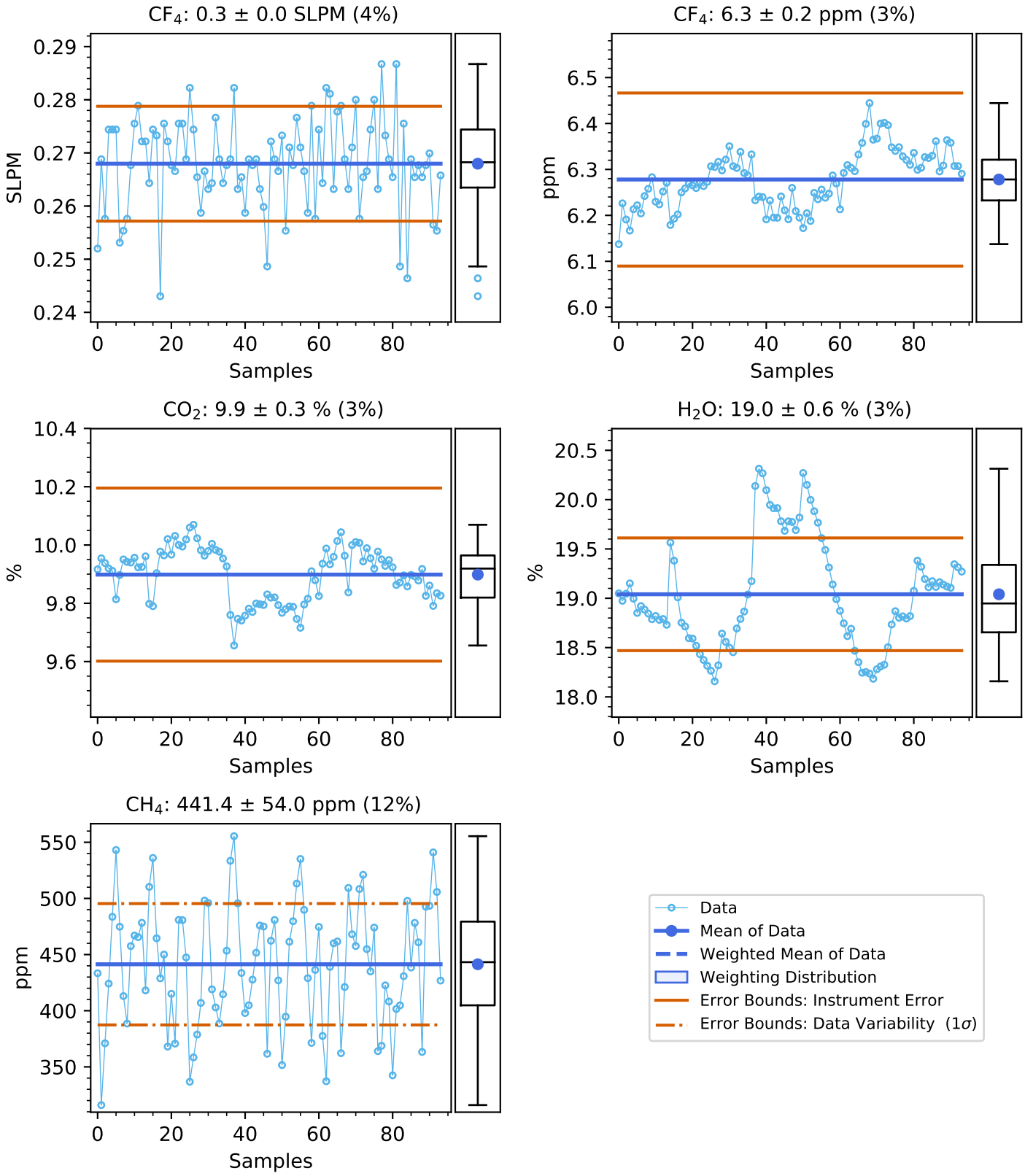
Facility: 765 Unit: 2 Test: 1



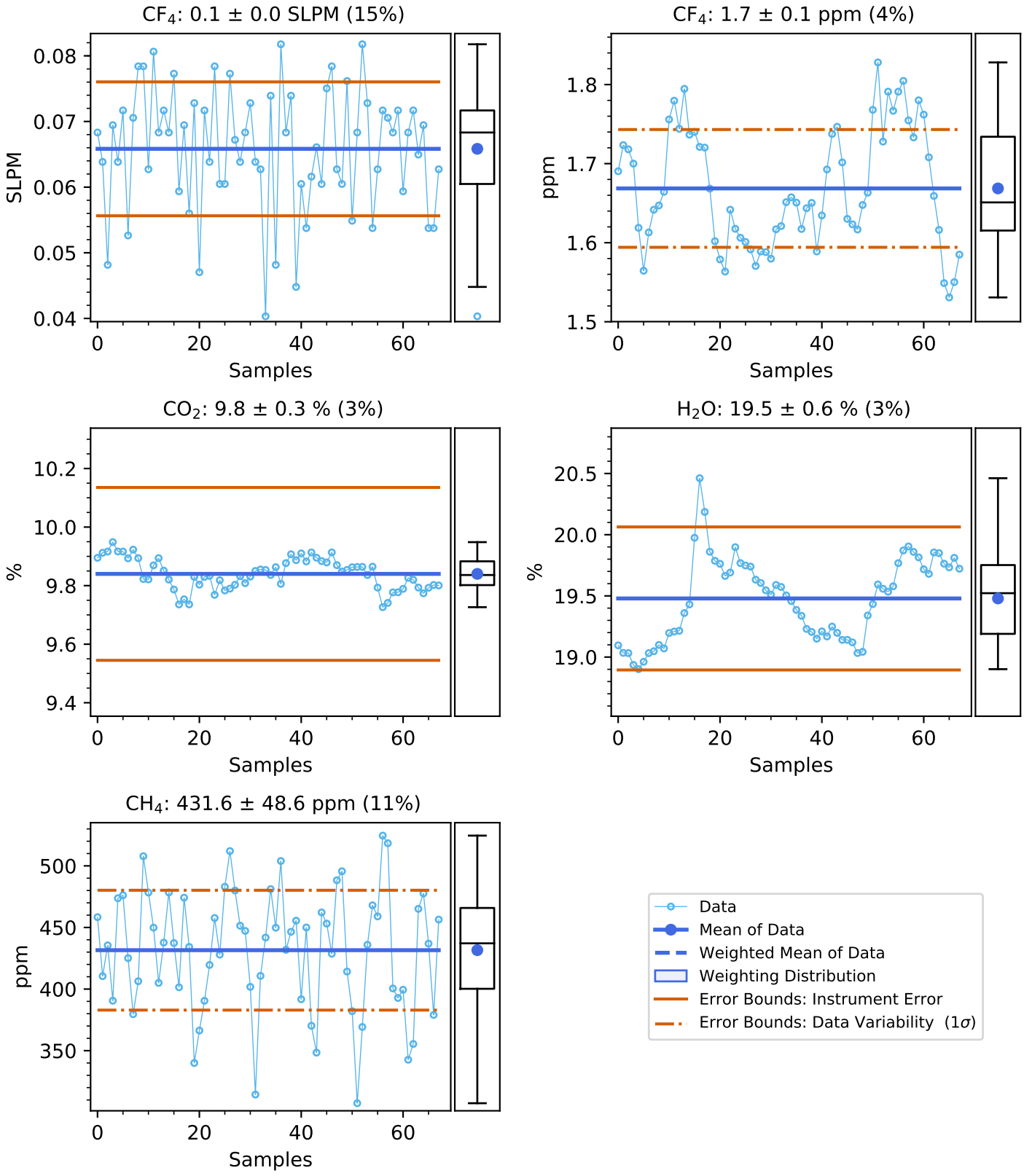
Facility: 765 Unit: 2 Test: 2



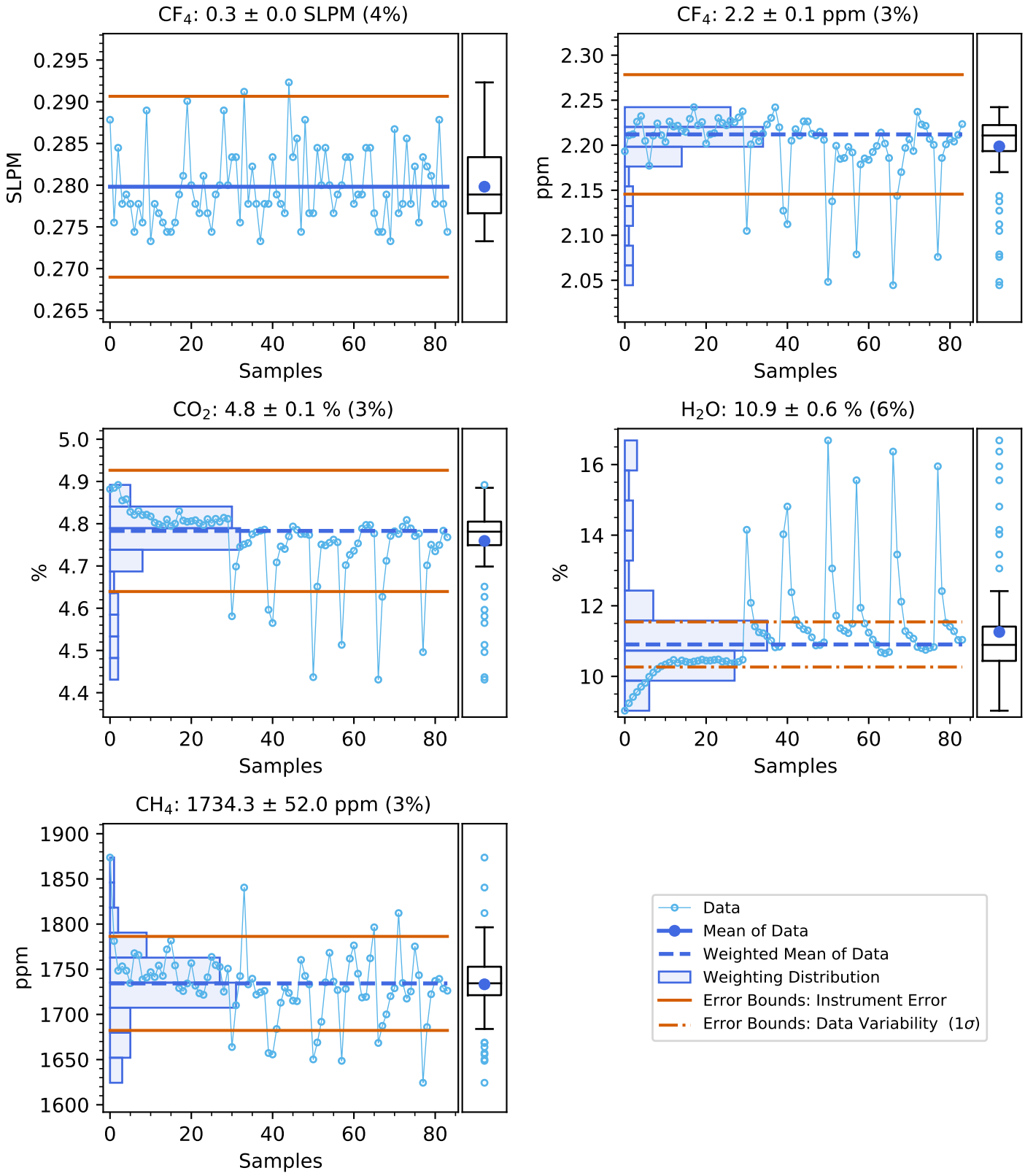
Facility: 765 Unit: 2 Test: 3



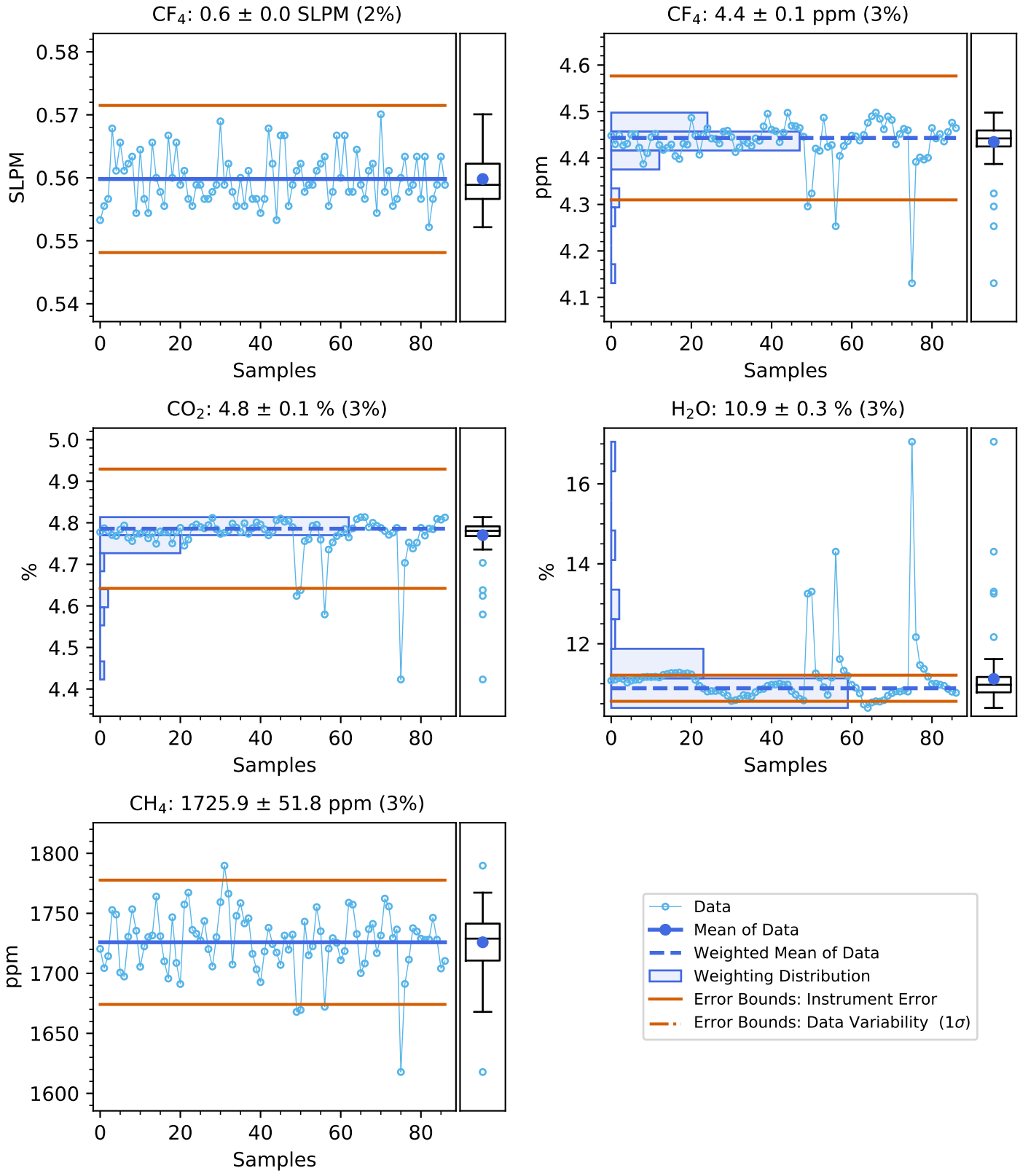
Facility: 765 Unit: 2 Test: 4



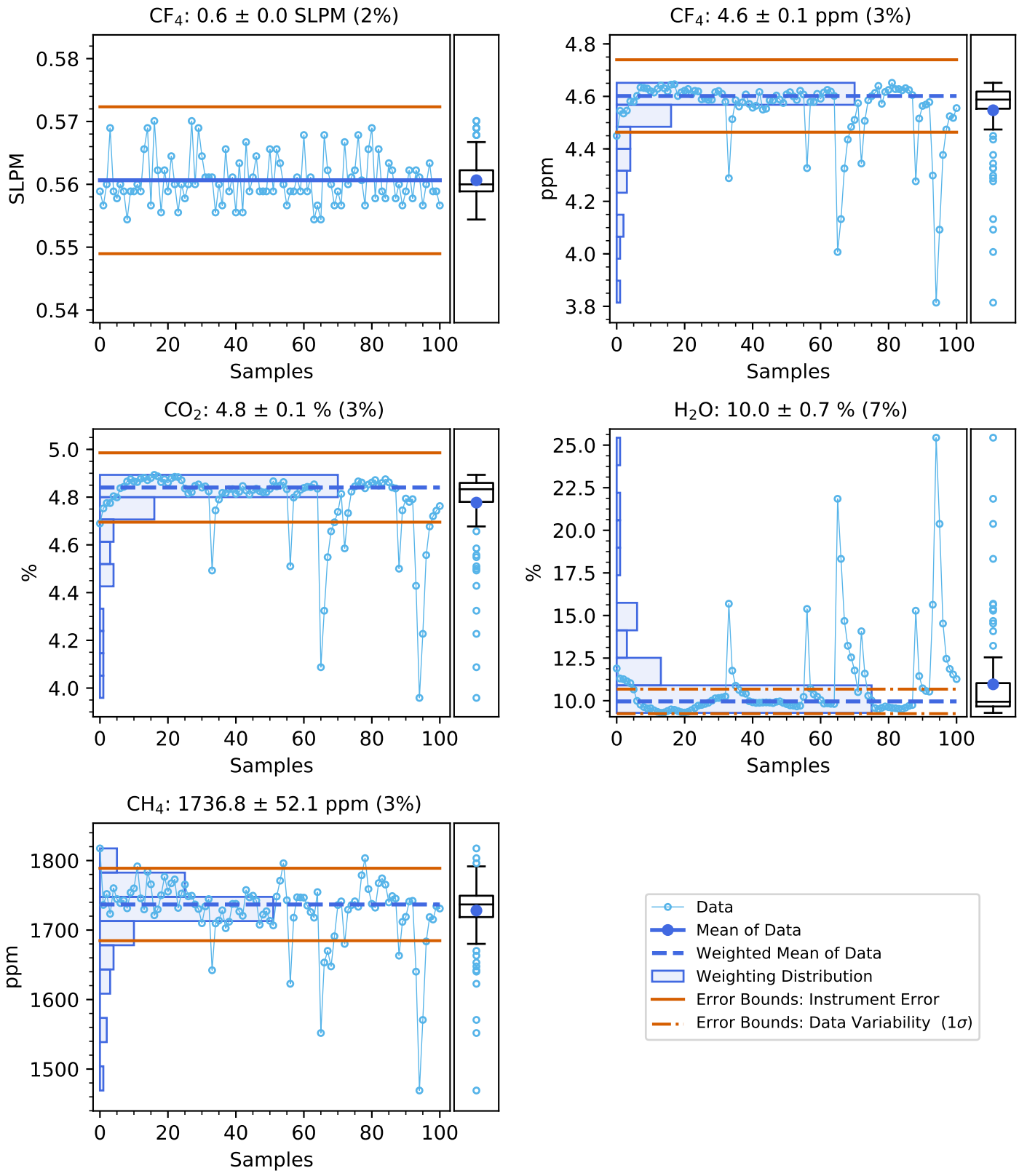
Facility: 2557 Unit: 1 Test: 1



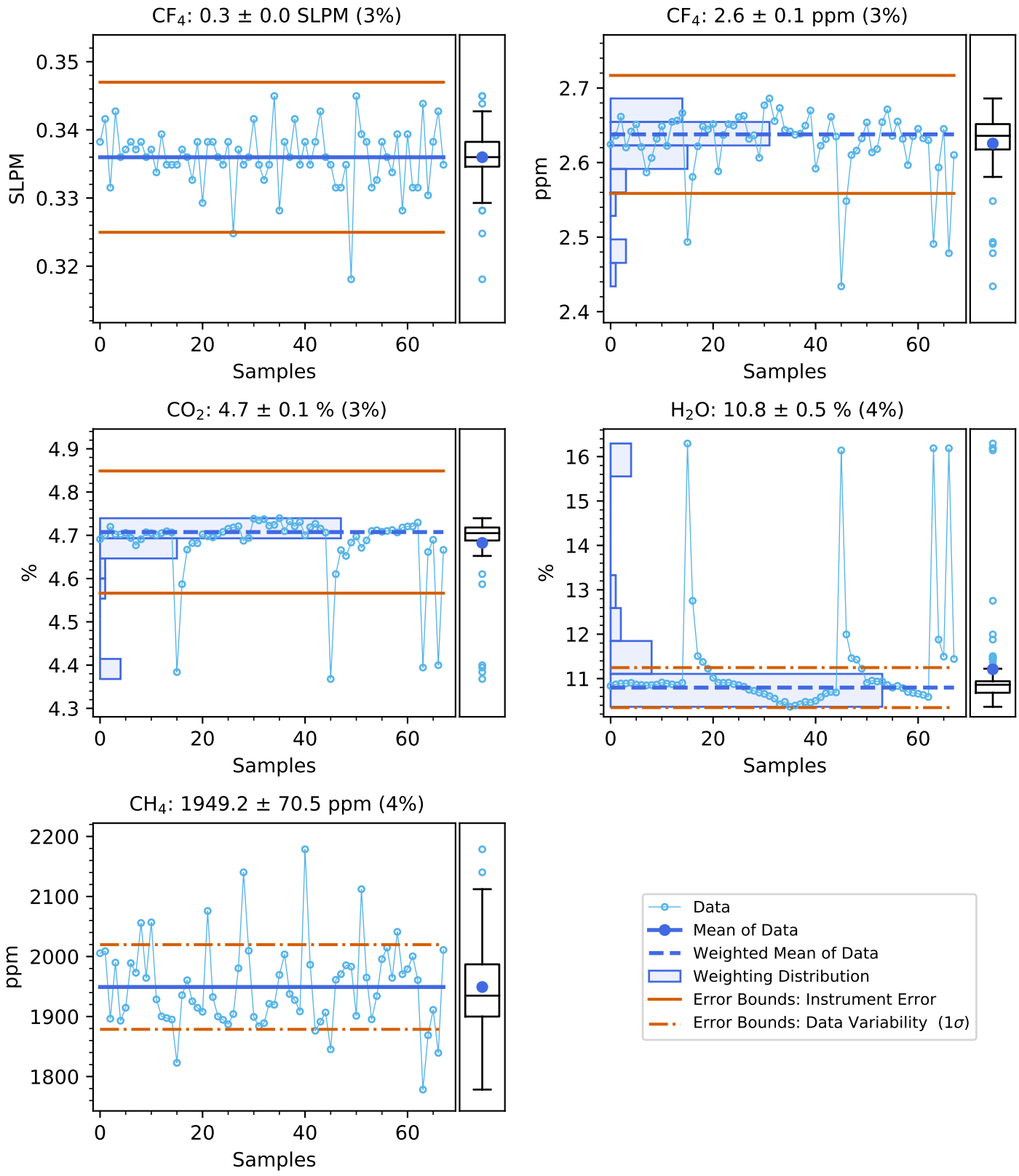
Facility: 2557 Unit: 1 Test: 2



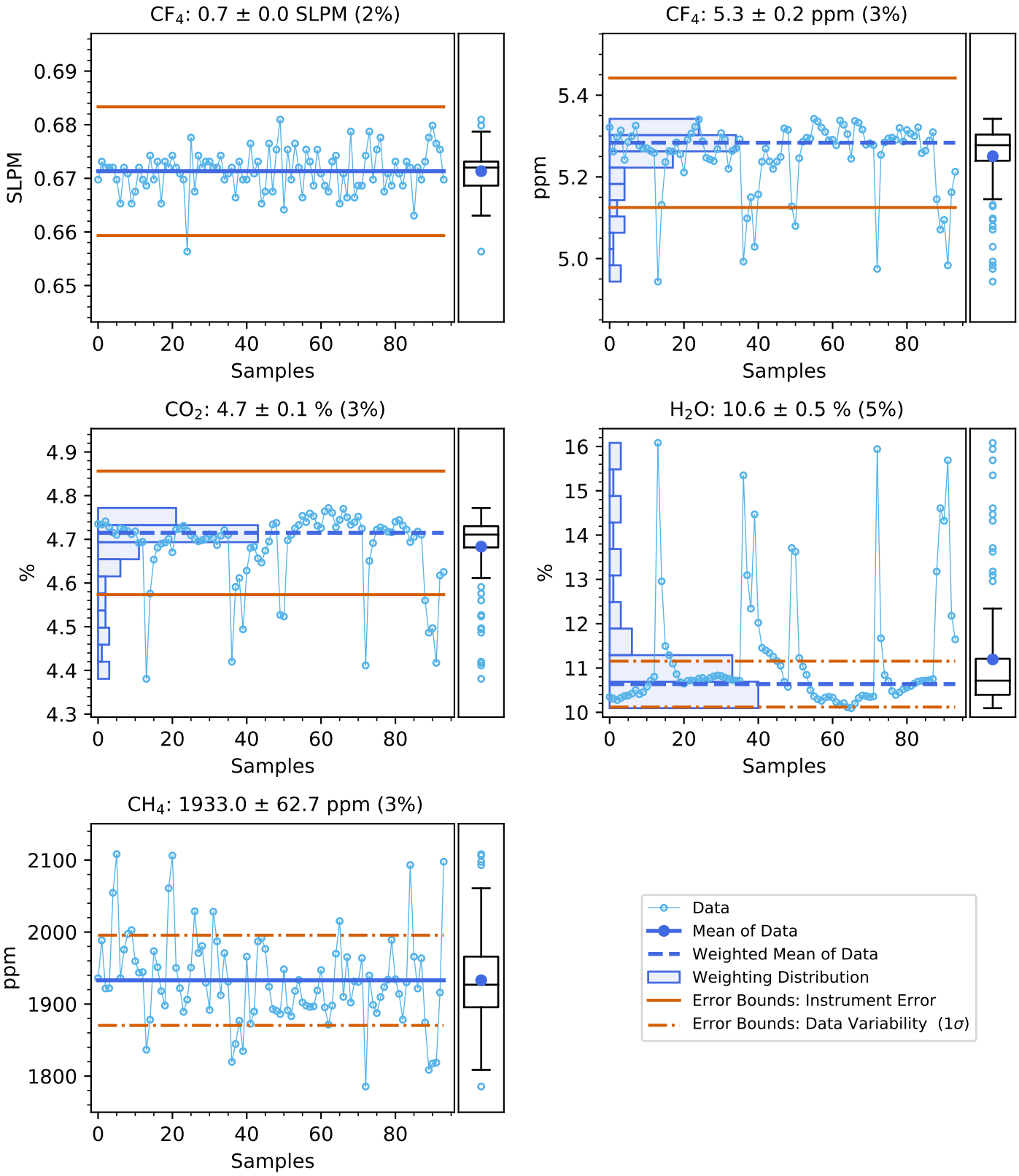
Facility: 2557 Unit: 1 Test: 3



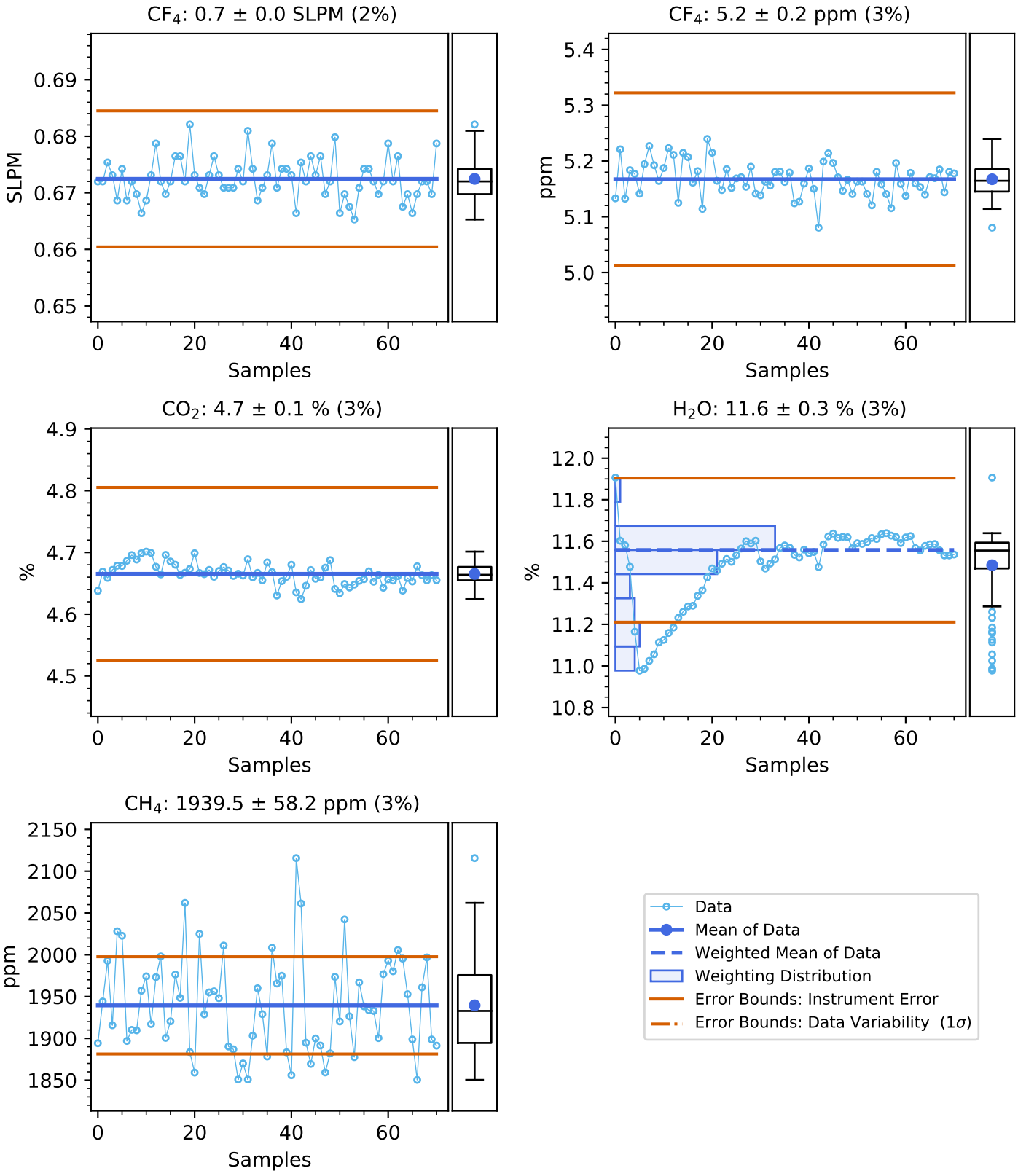
Facility: 2557 Unit: 2 Test: 1



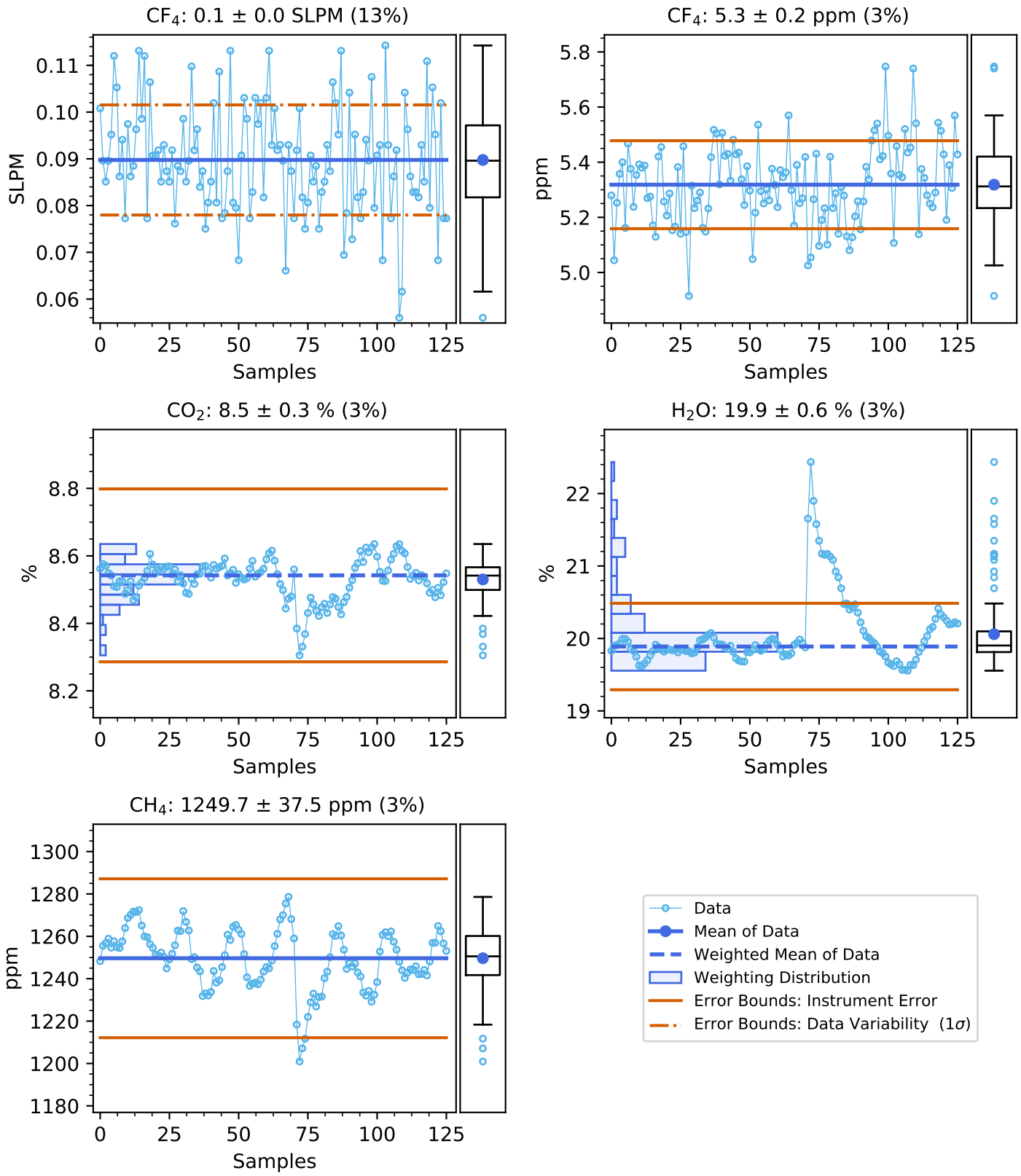
Facility: 2557 Unit: 2 Test: 2



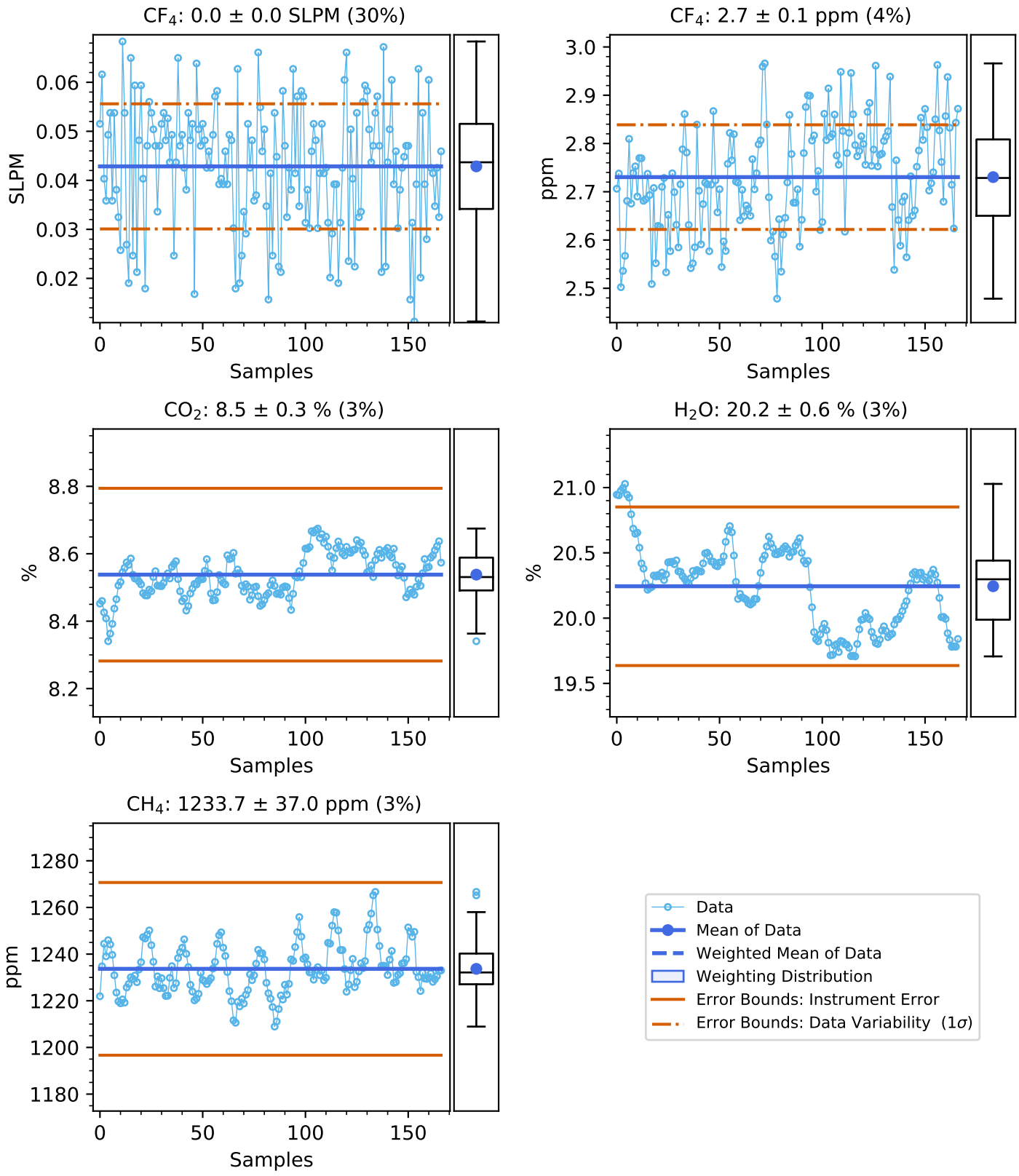
Facility: 2557 Unit: 2 Test: 3



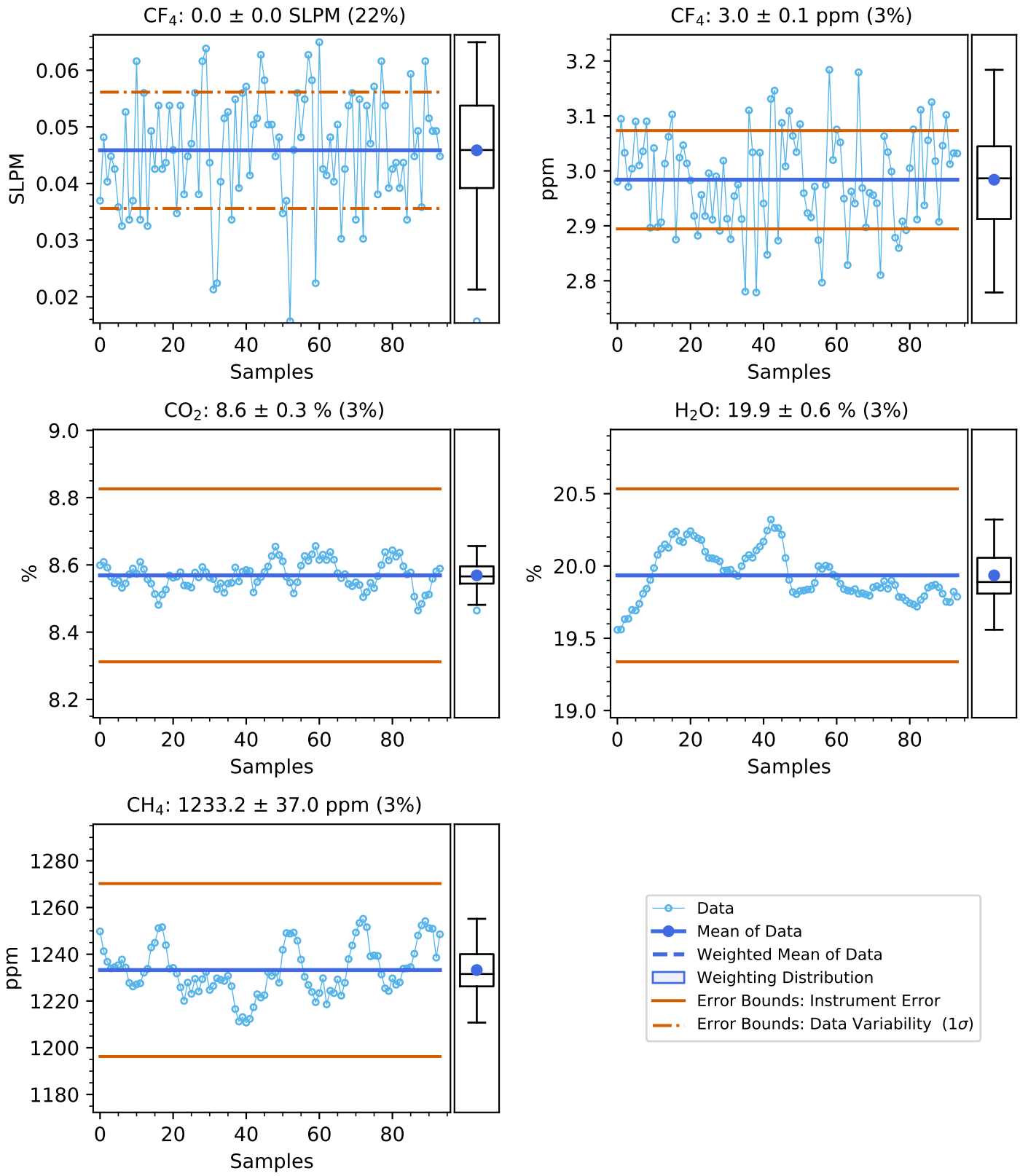
Facility: 1167 Unit: 1 Test: 1



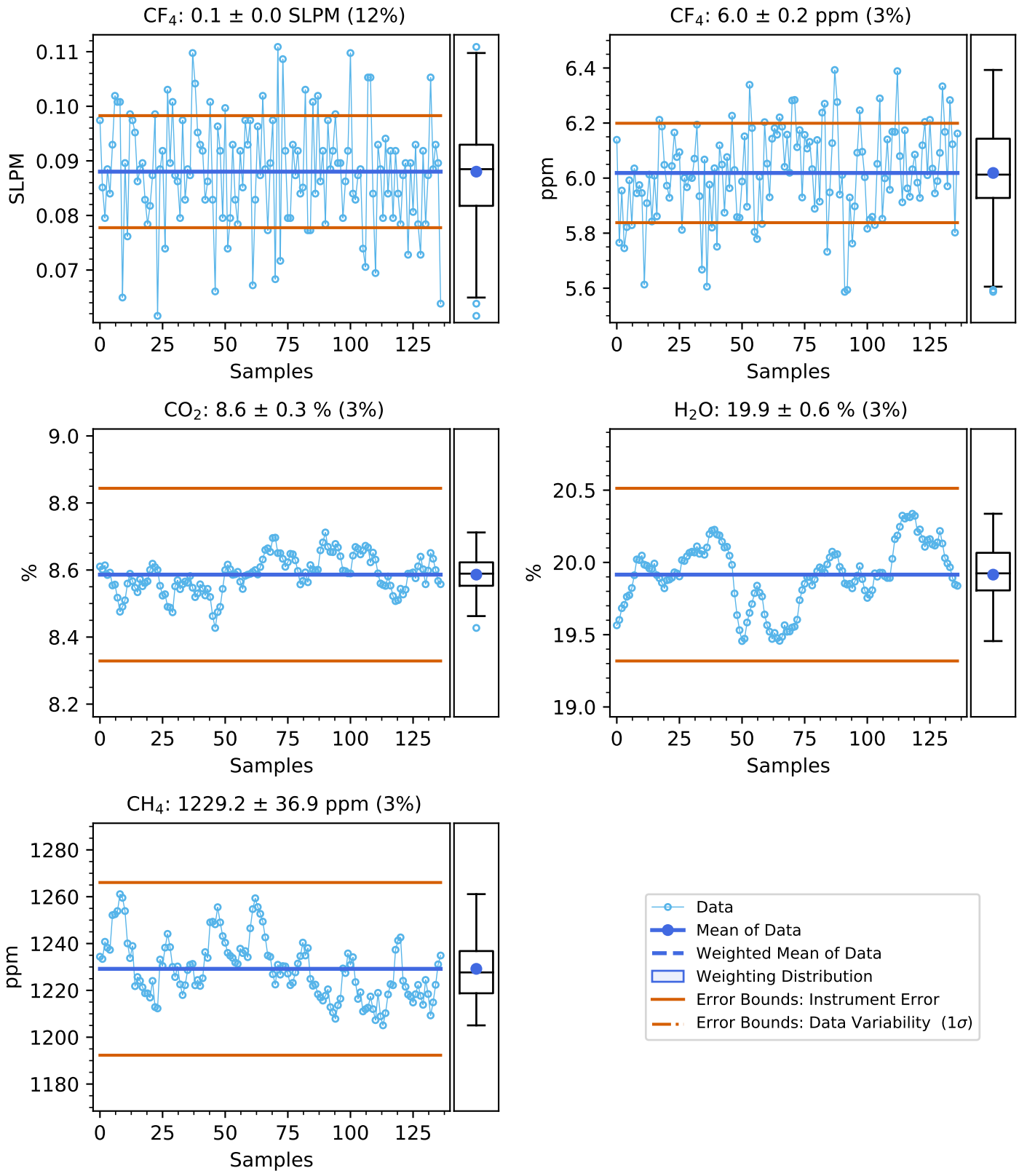
Facility: 1167 Unit: 1 Test: 2



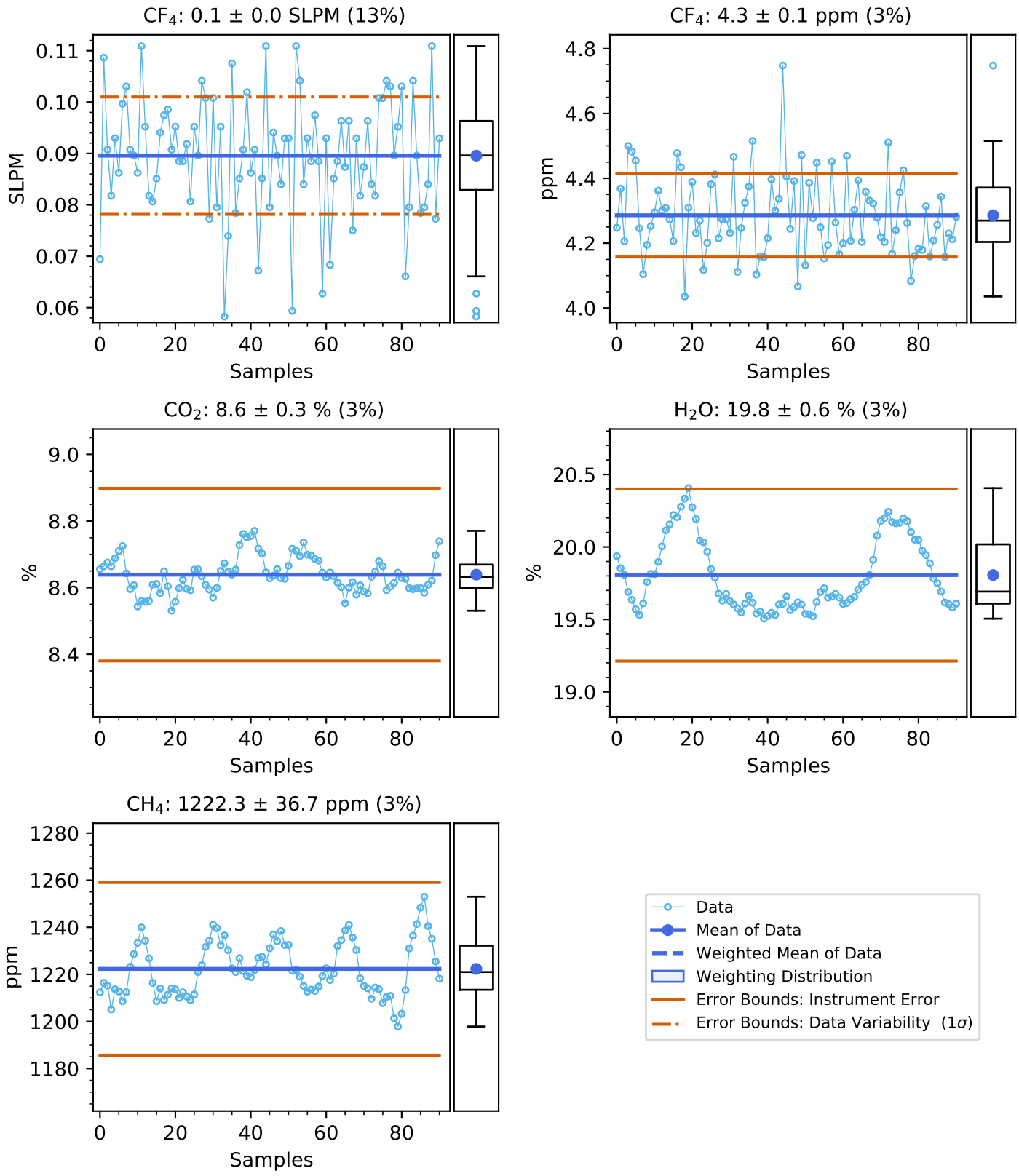
Facility: 1167 Unit: 1 Test: 3



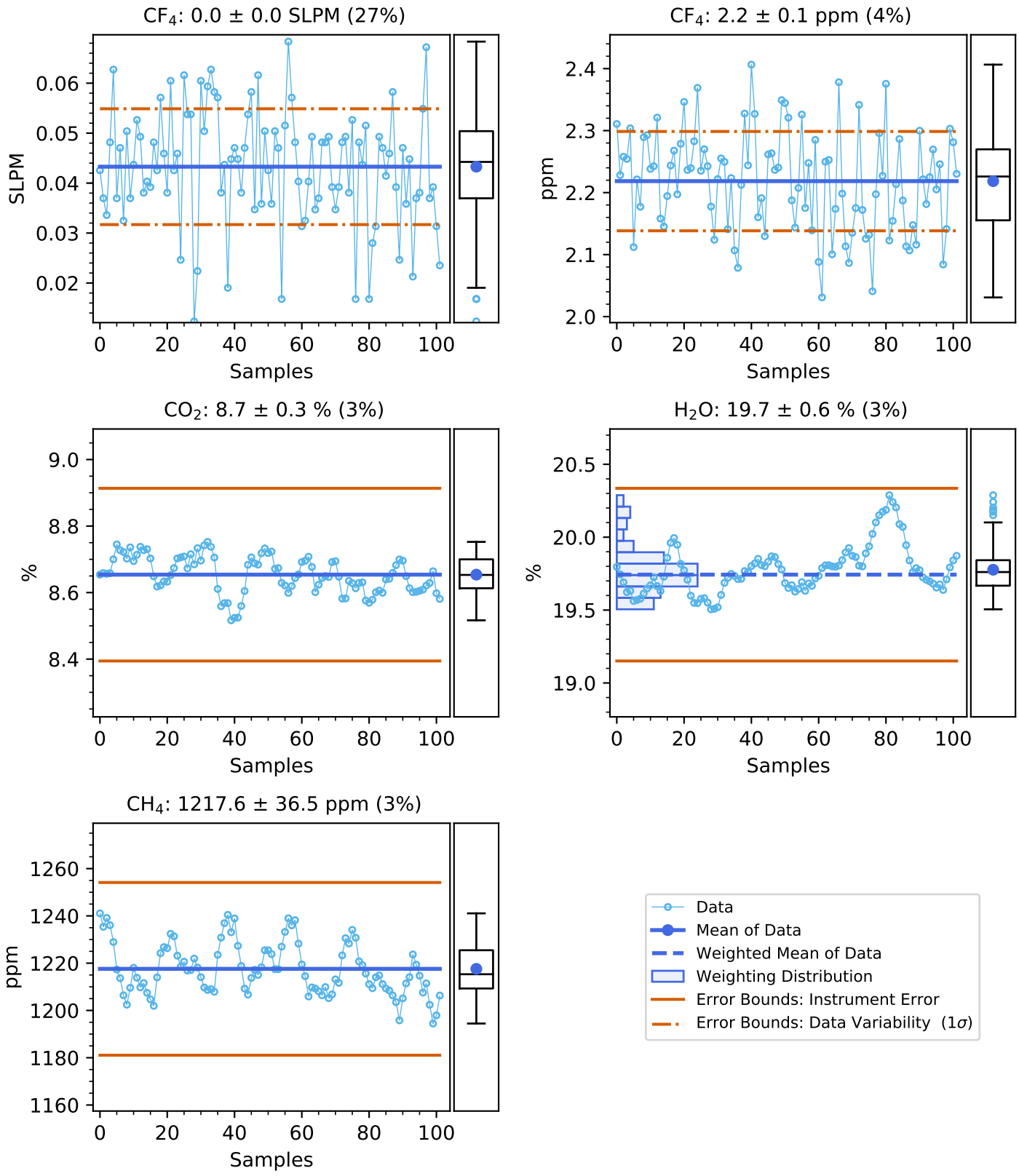
Facility: 1167 Unit: 1 Test: 4



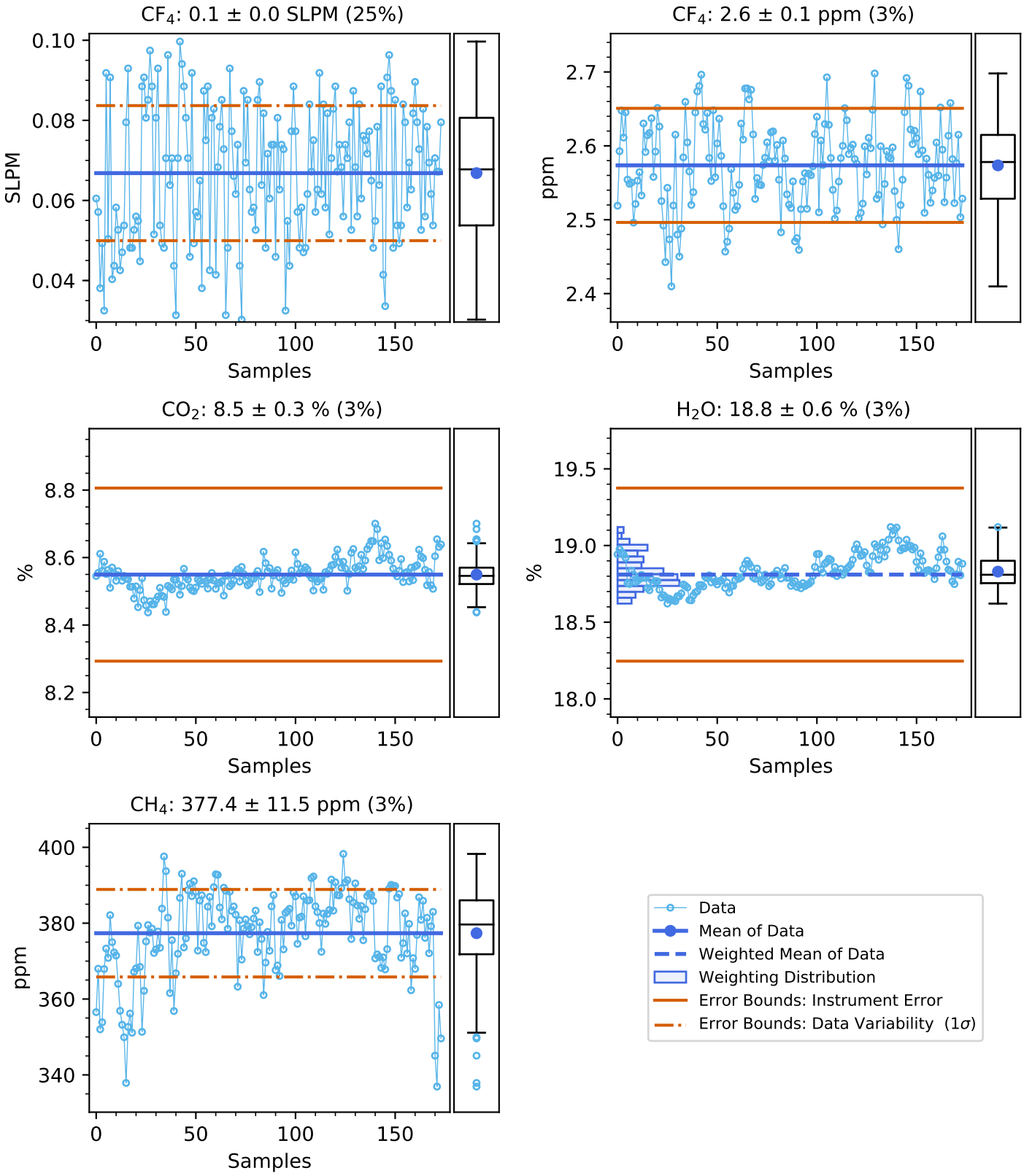
Facility: 1167 Unit: 1 Test: 5



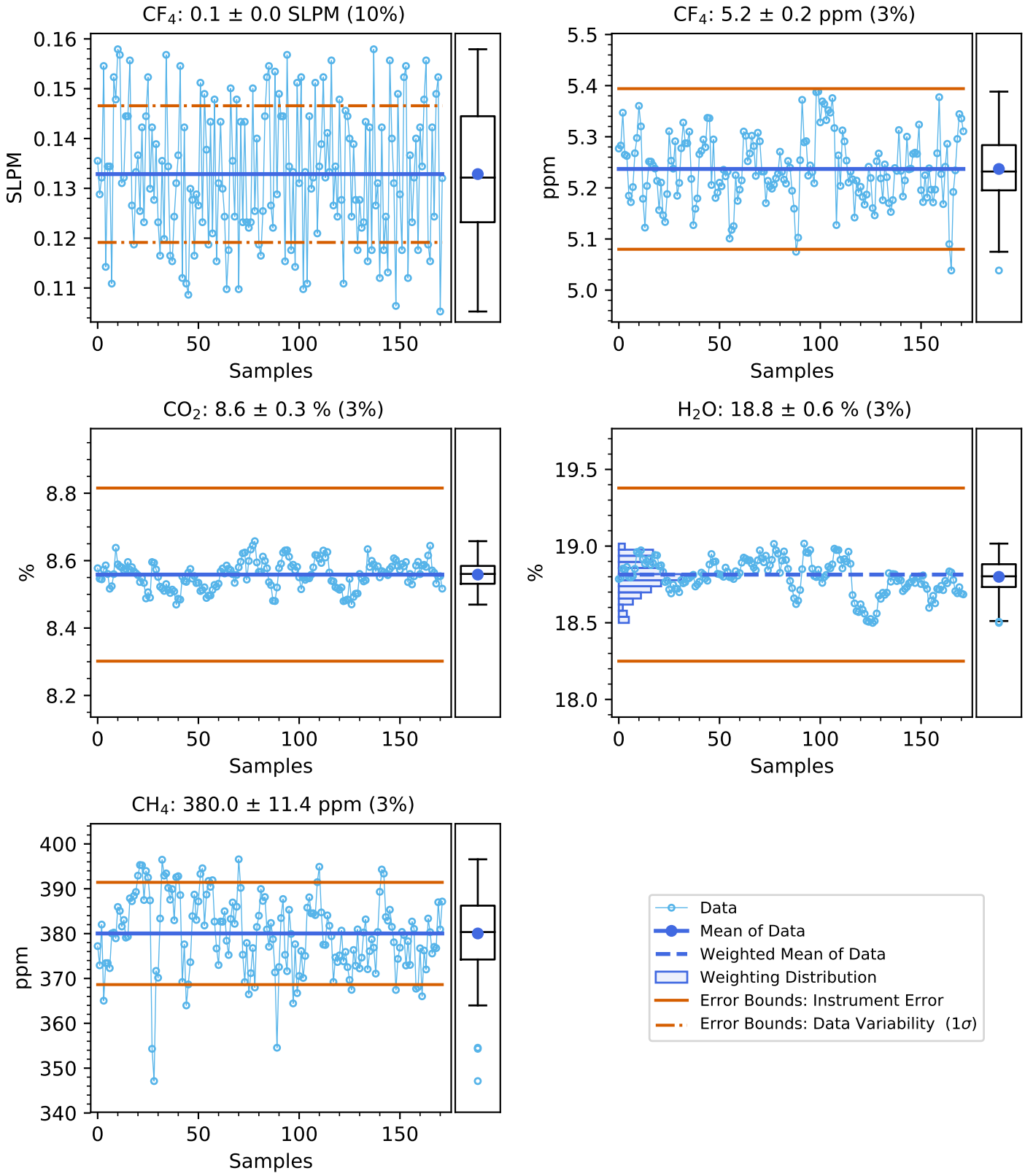
Facility: 1167 Unit: 1 Test: 6



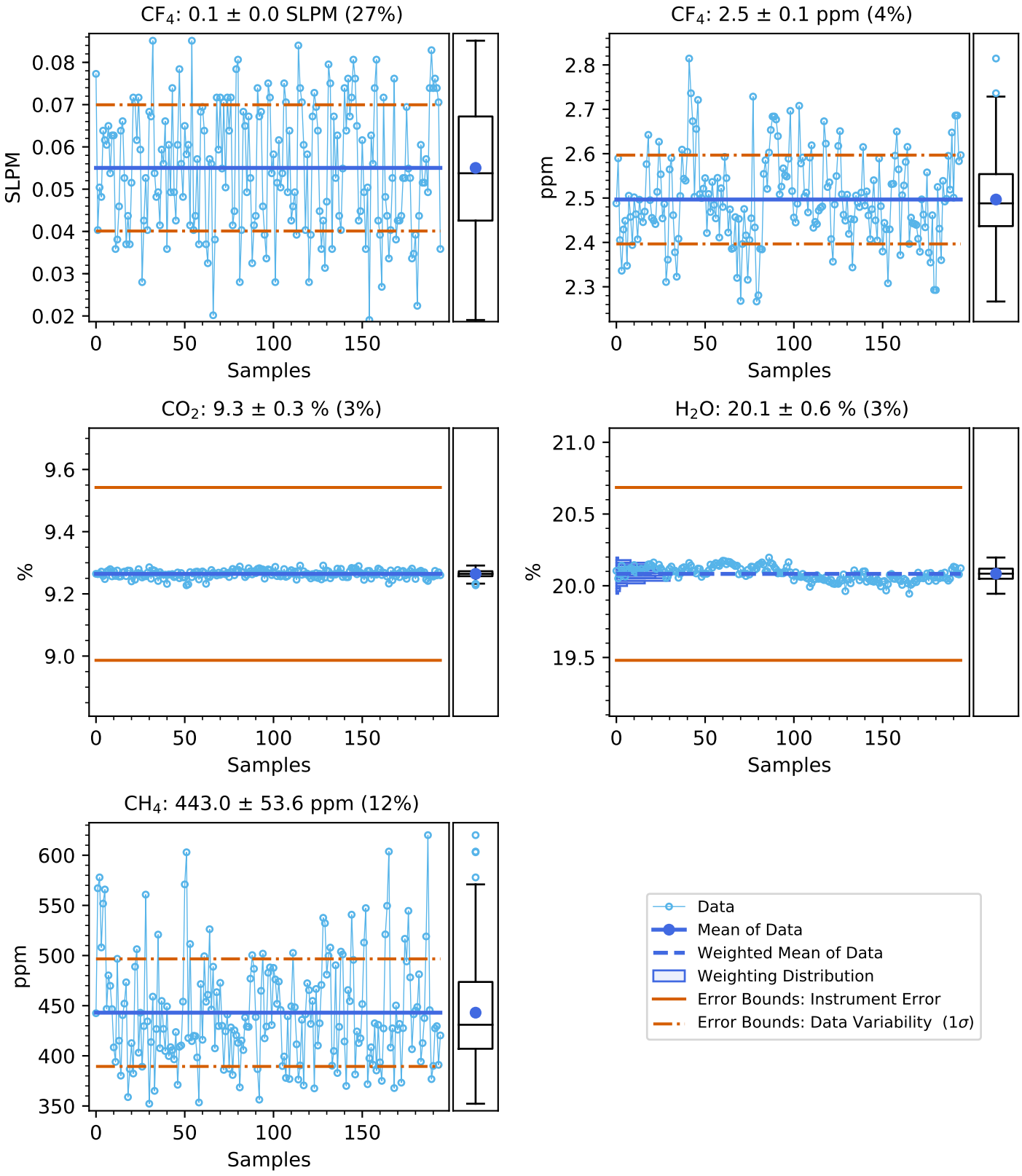
Facility: 200 Unit: 1 Test: 1



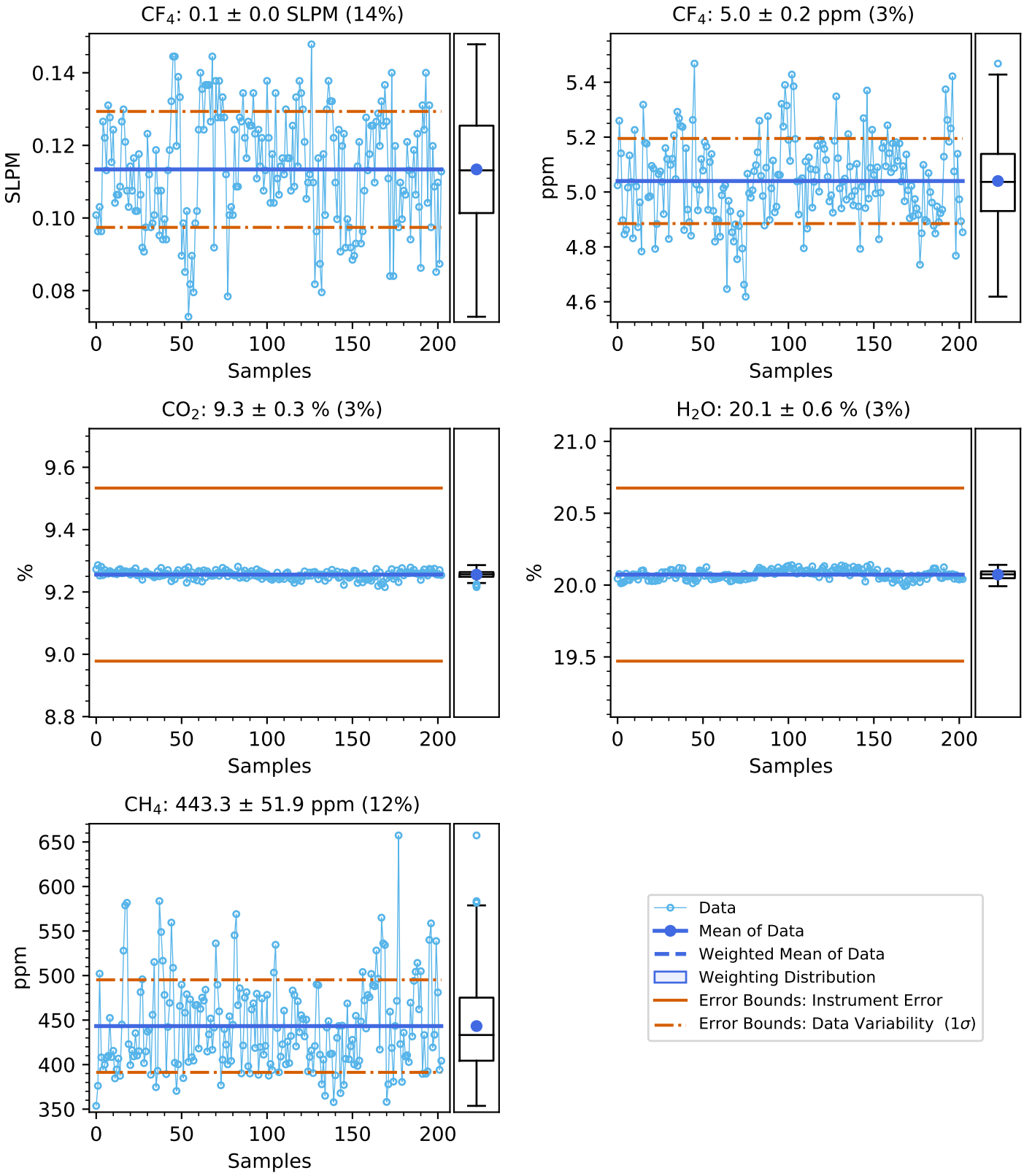
Facility: 200 Unit: 1 Test: 2



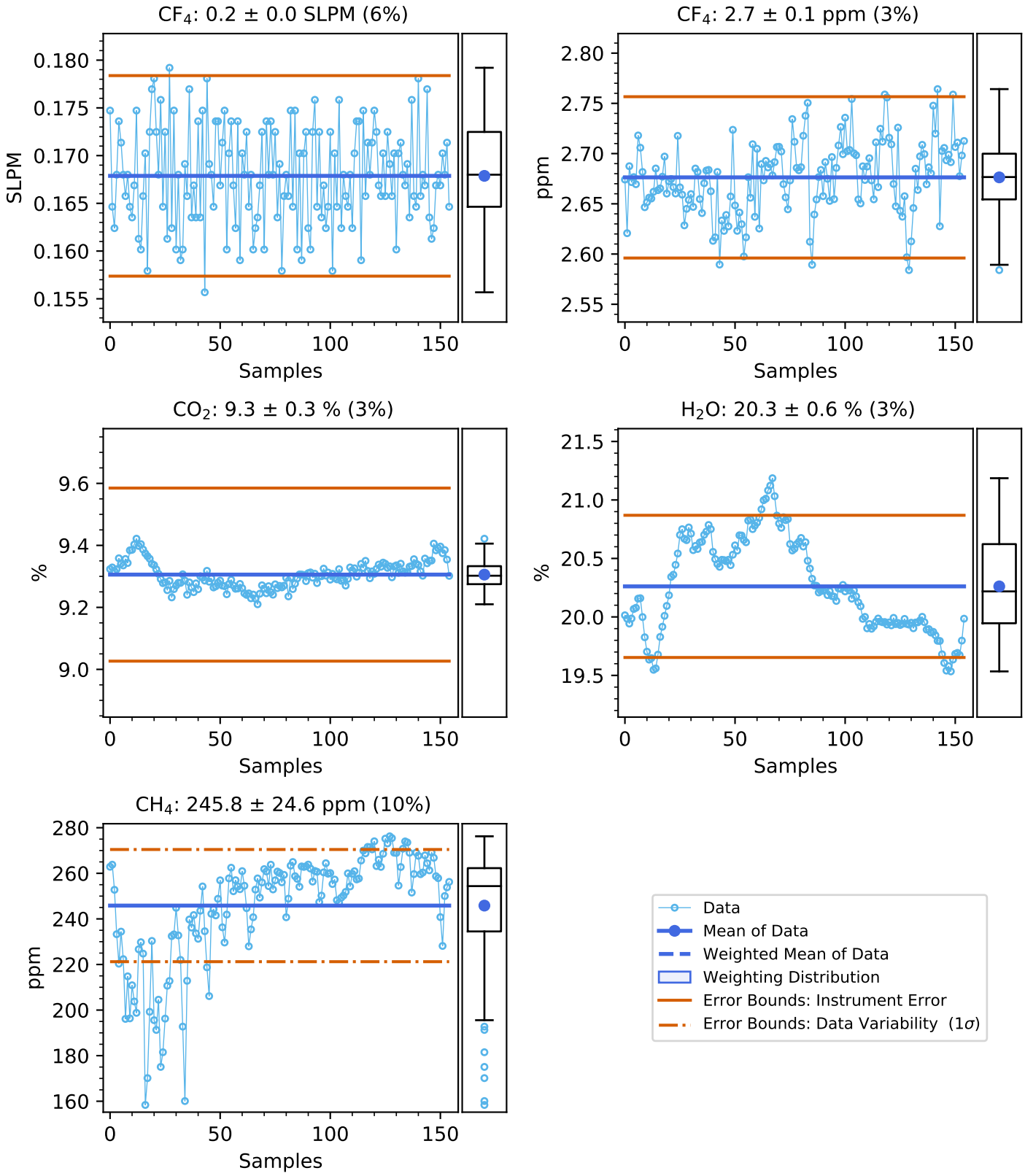
Facility: 200 Unit: 2 Test: 1



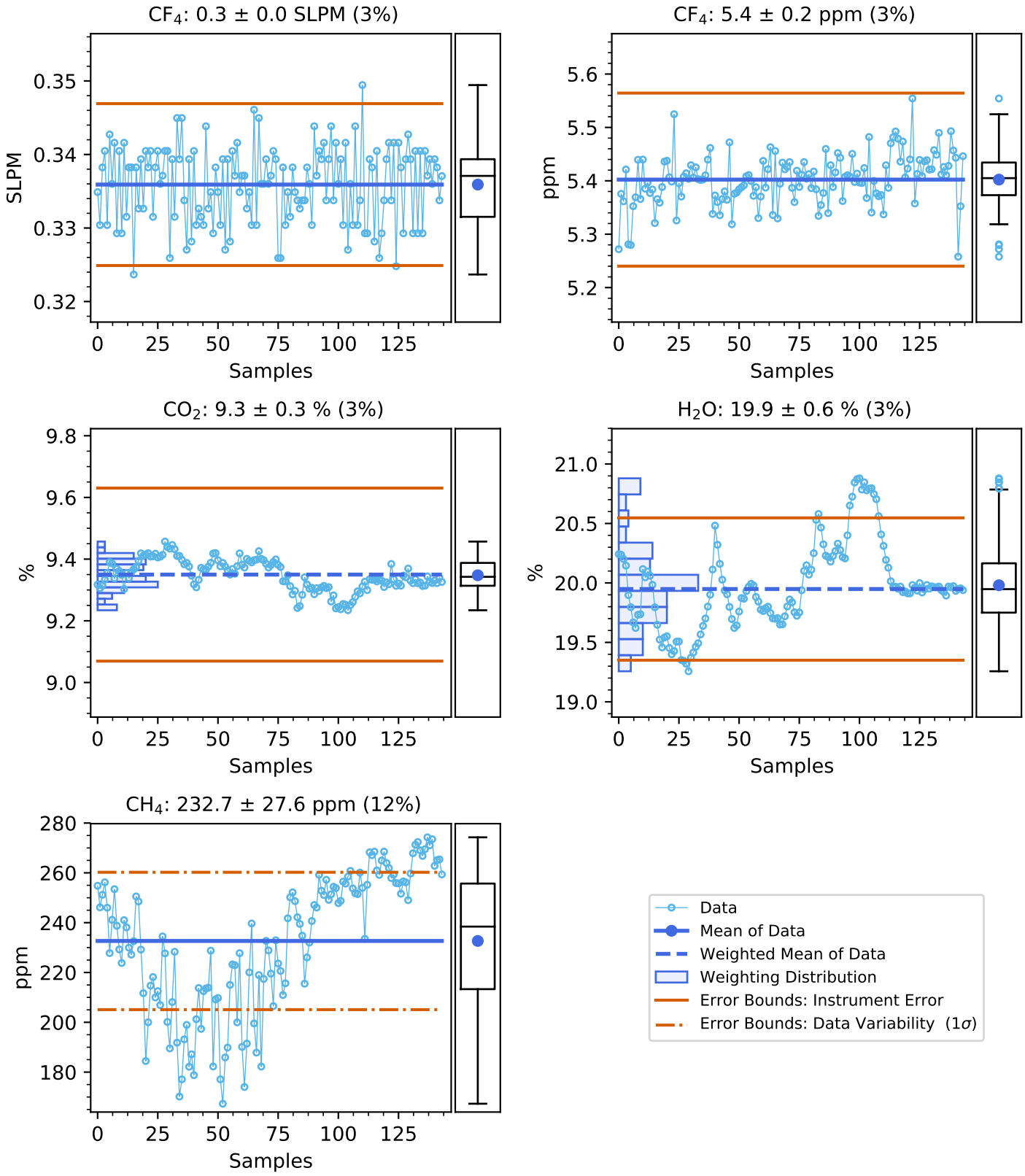
Facility: 200 Unit: 2 Test: 2



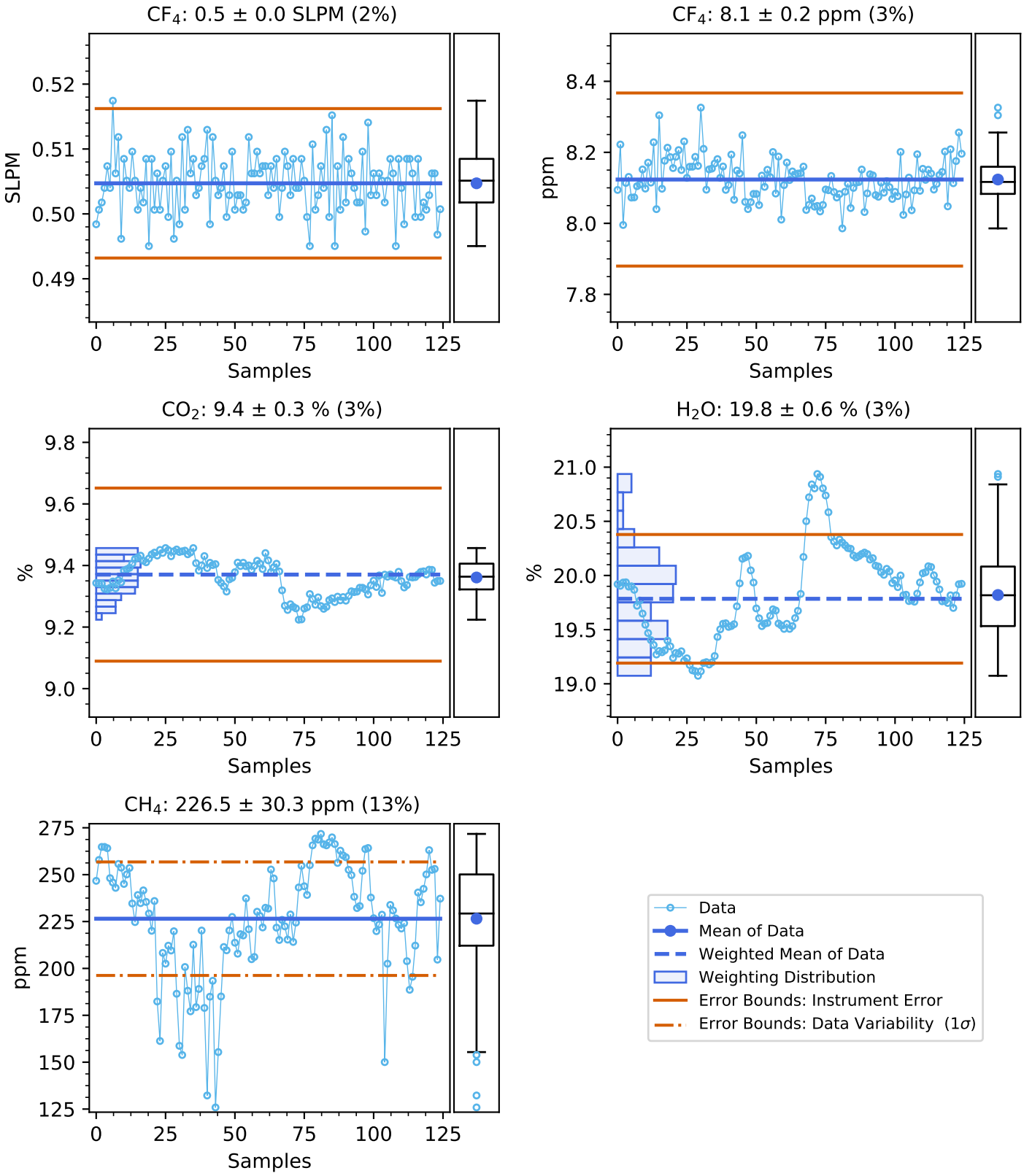
Facility: 2785 Unit: 1 Test: 1



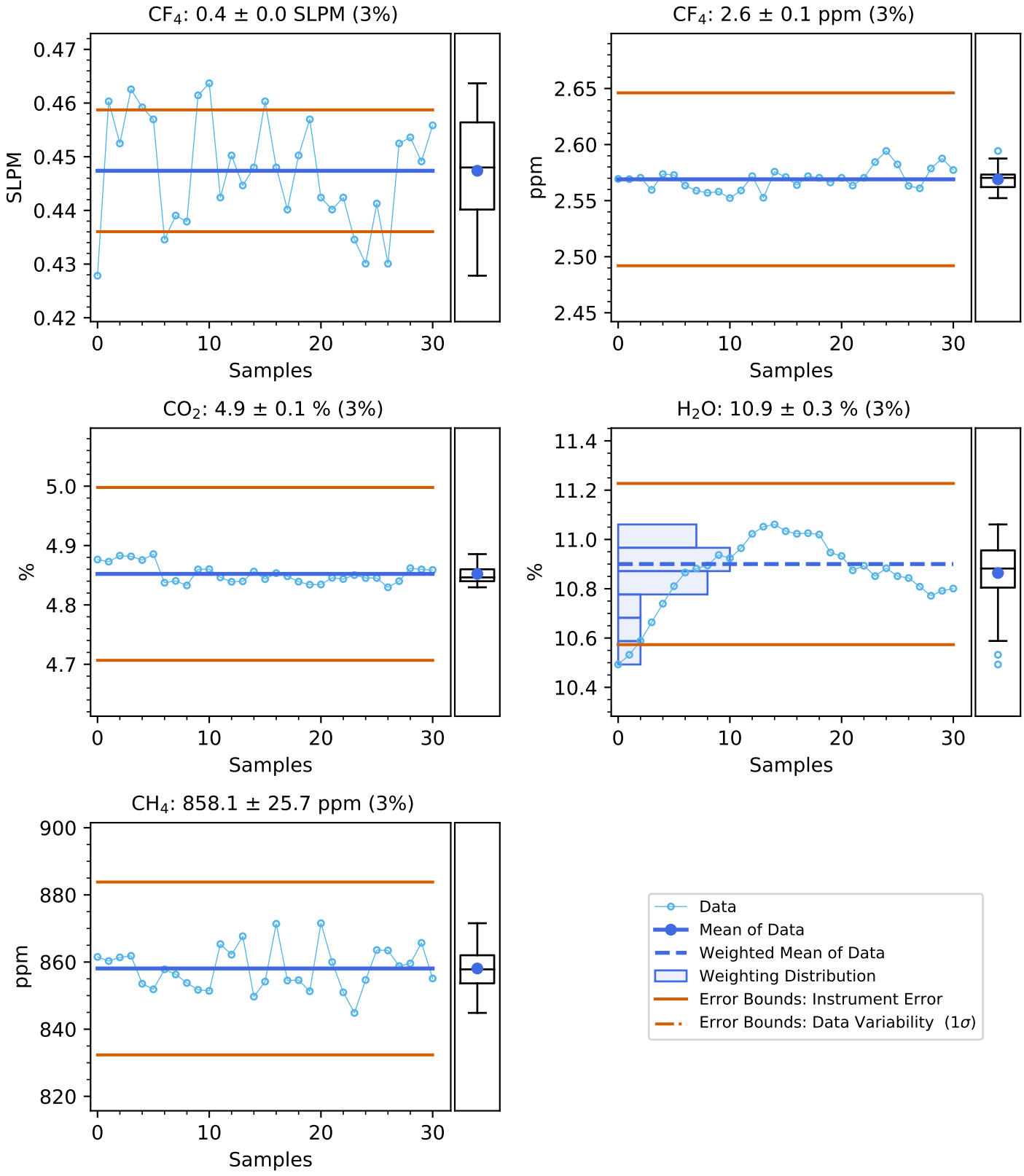
Facility: 2785 Unit: 1 Test: 2



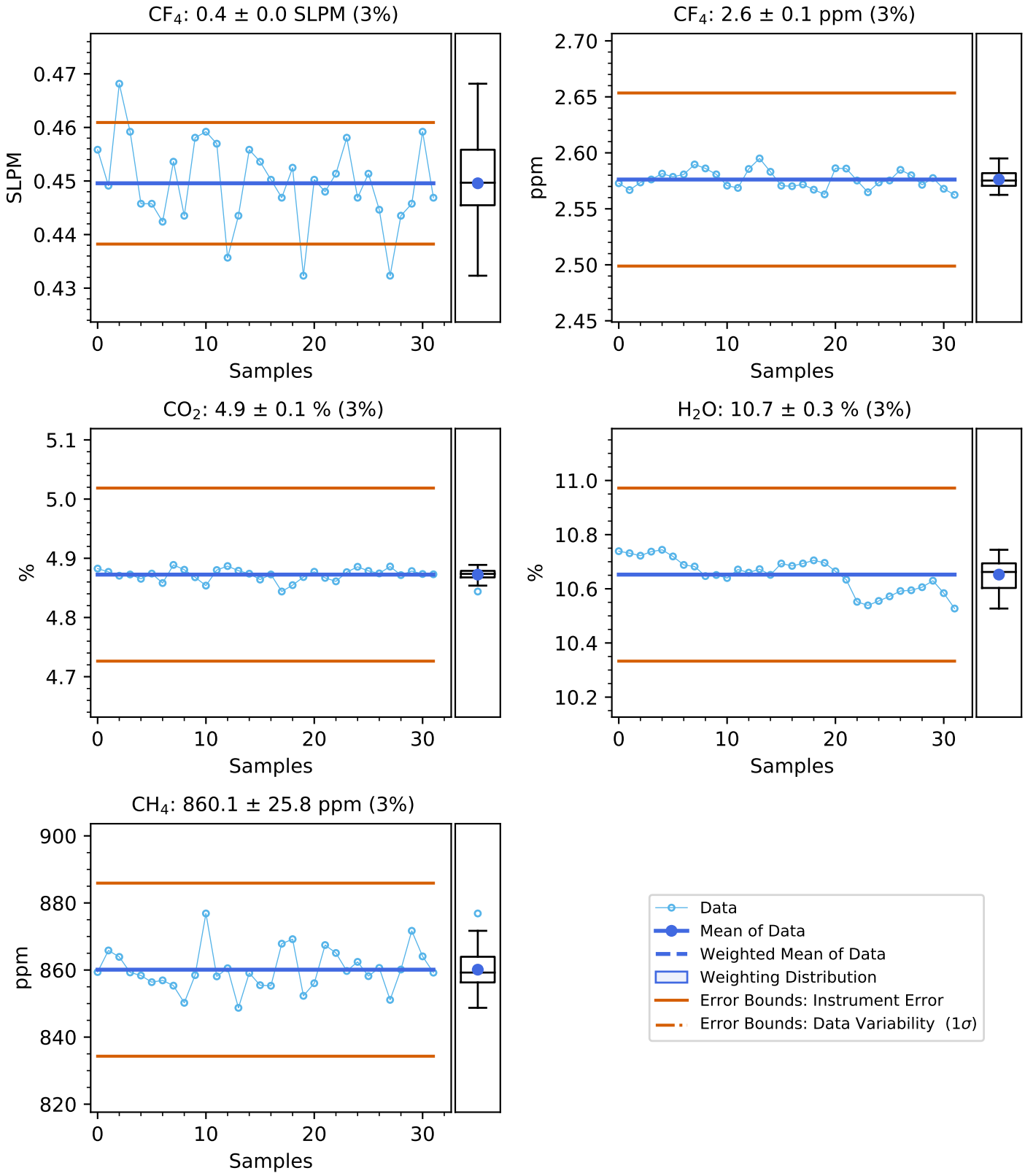
Facility: 2785 Unit: 1 Test: 3



Facility: 235 Unit: 1 Test: 1



Facility: 235 Unit: 1 Test: 2



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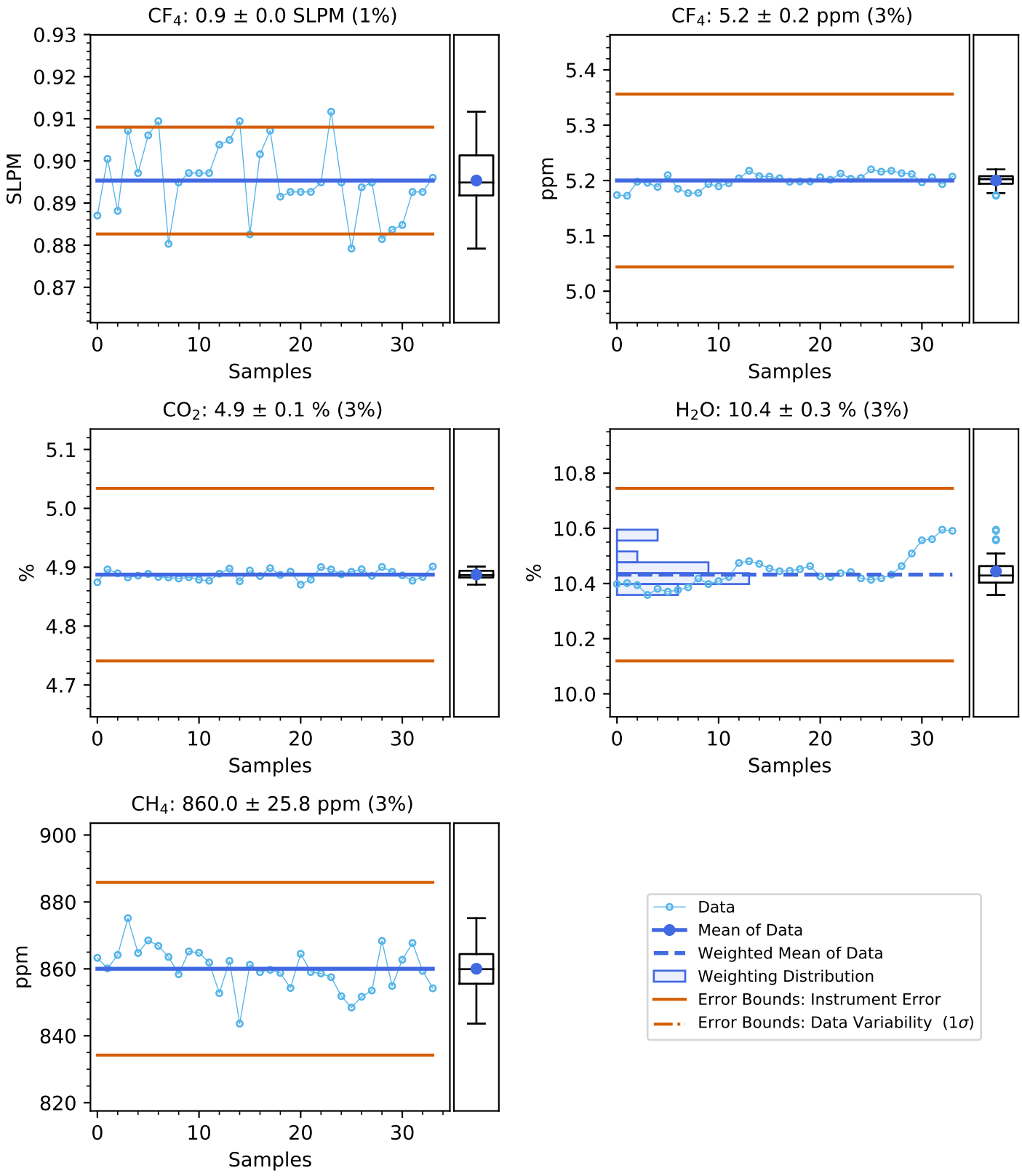
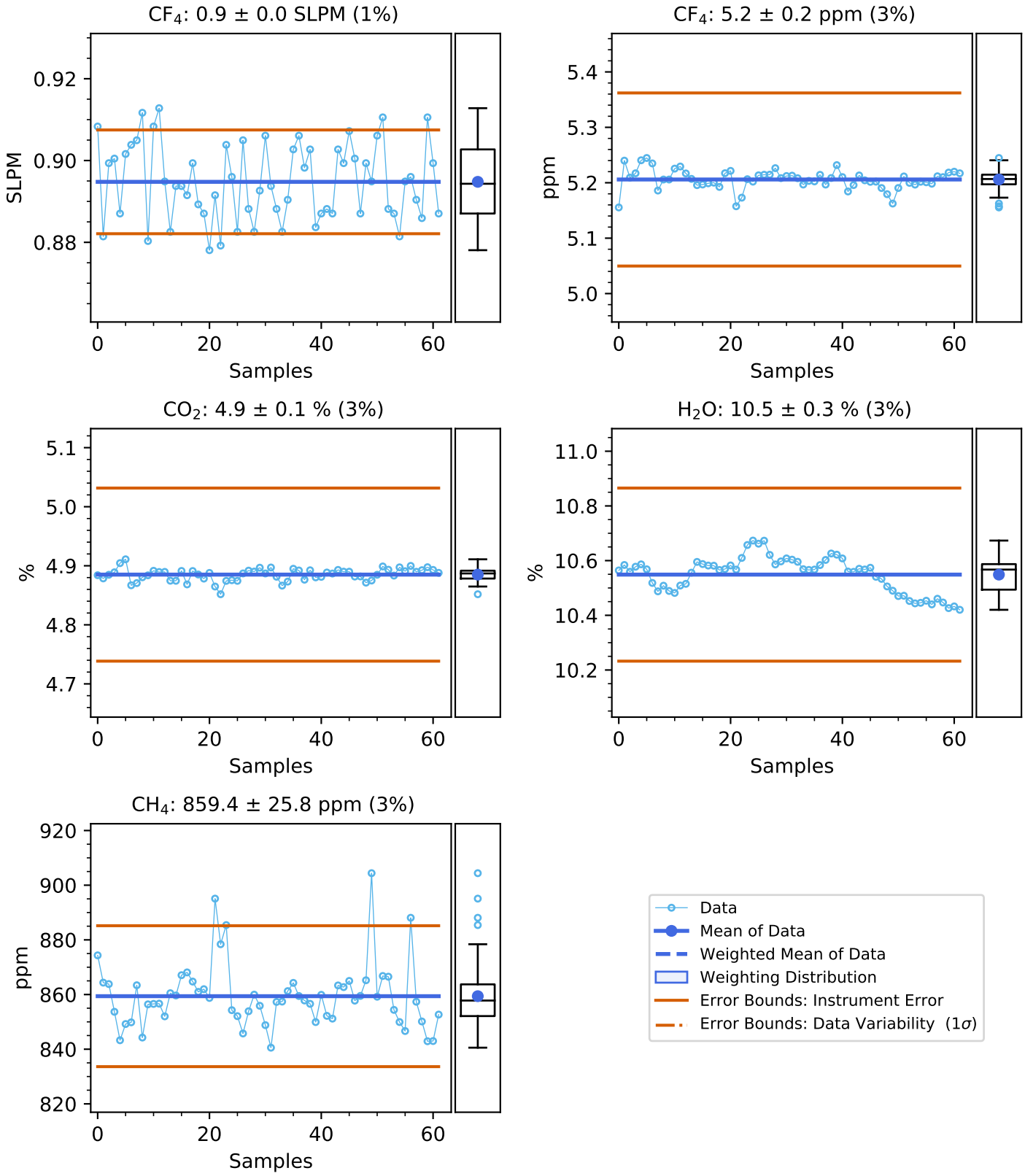
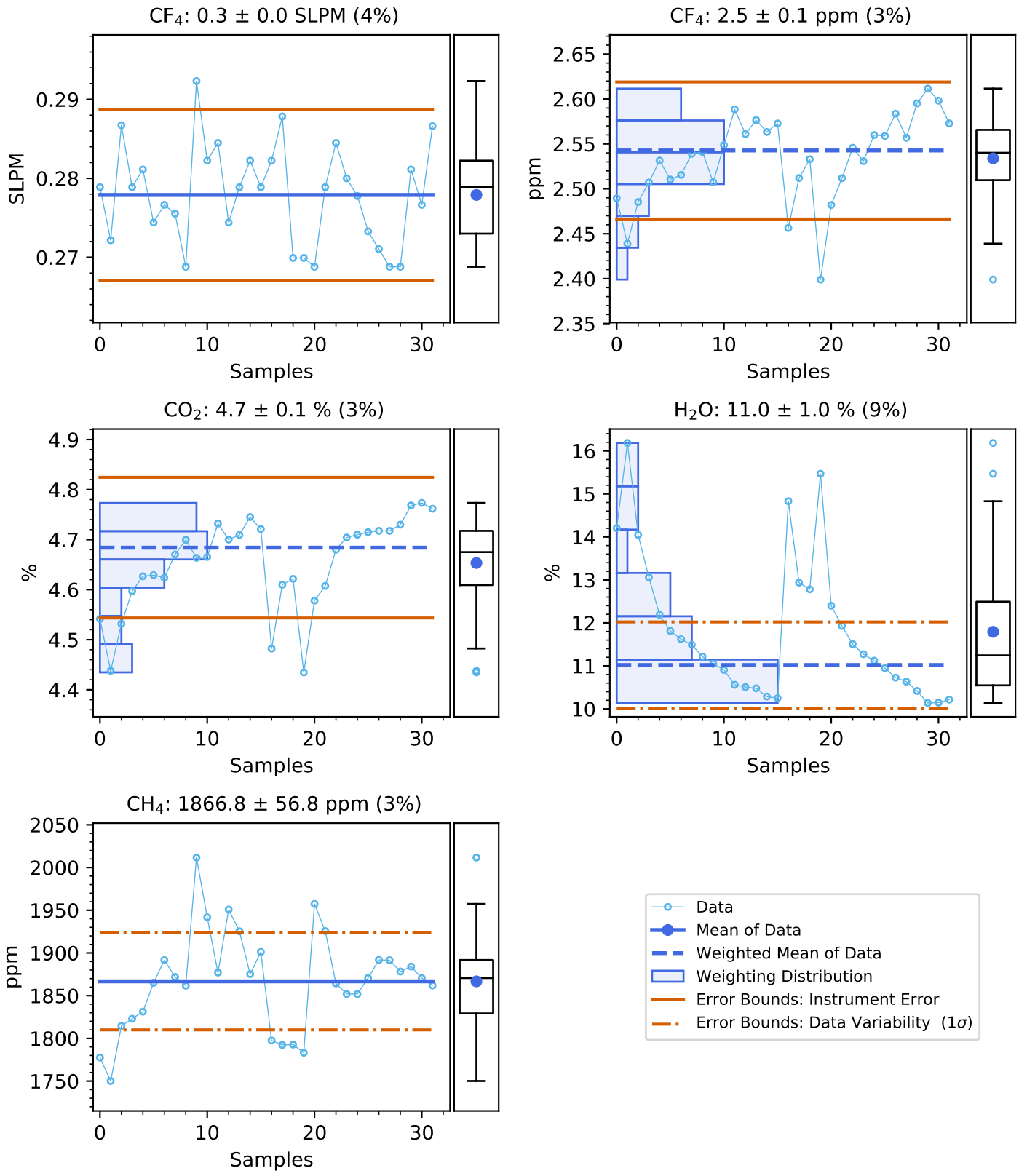


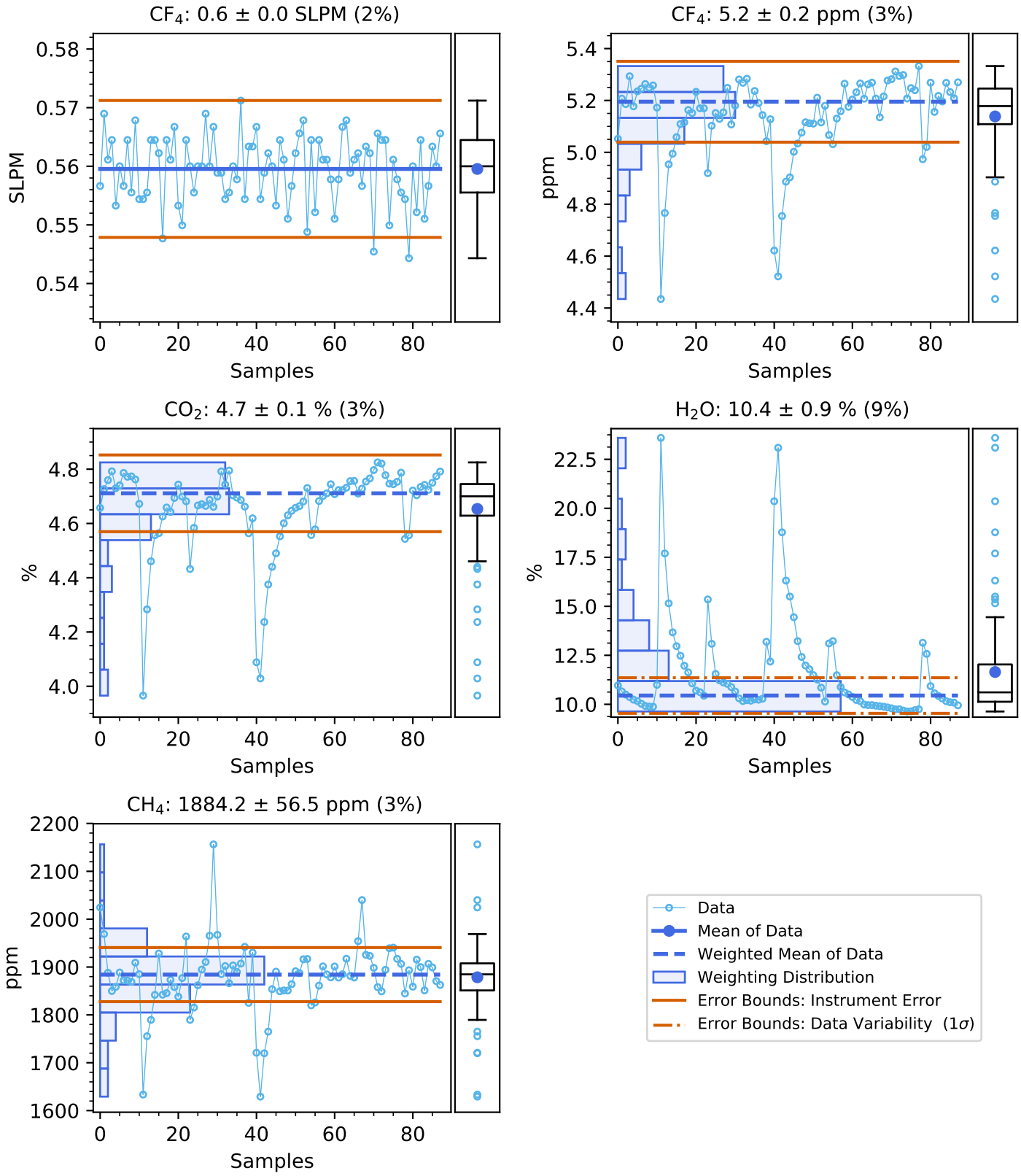
Facility: 235 Unit: 1 Test: 4



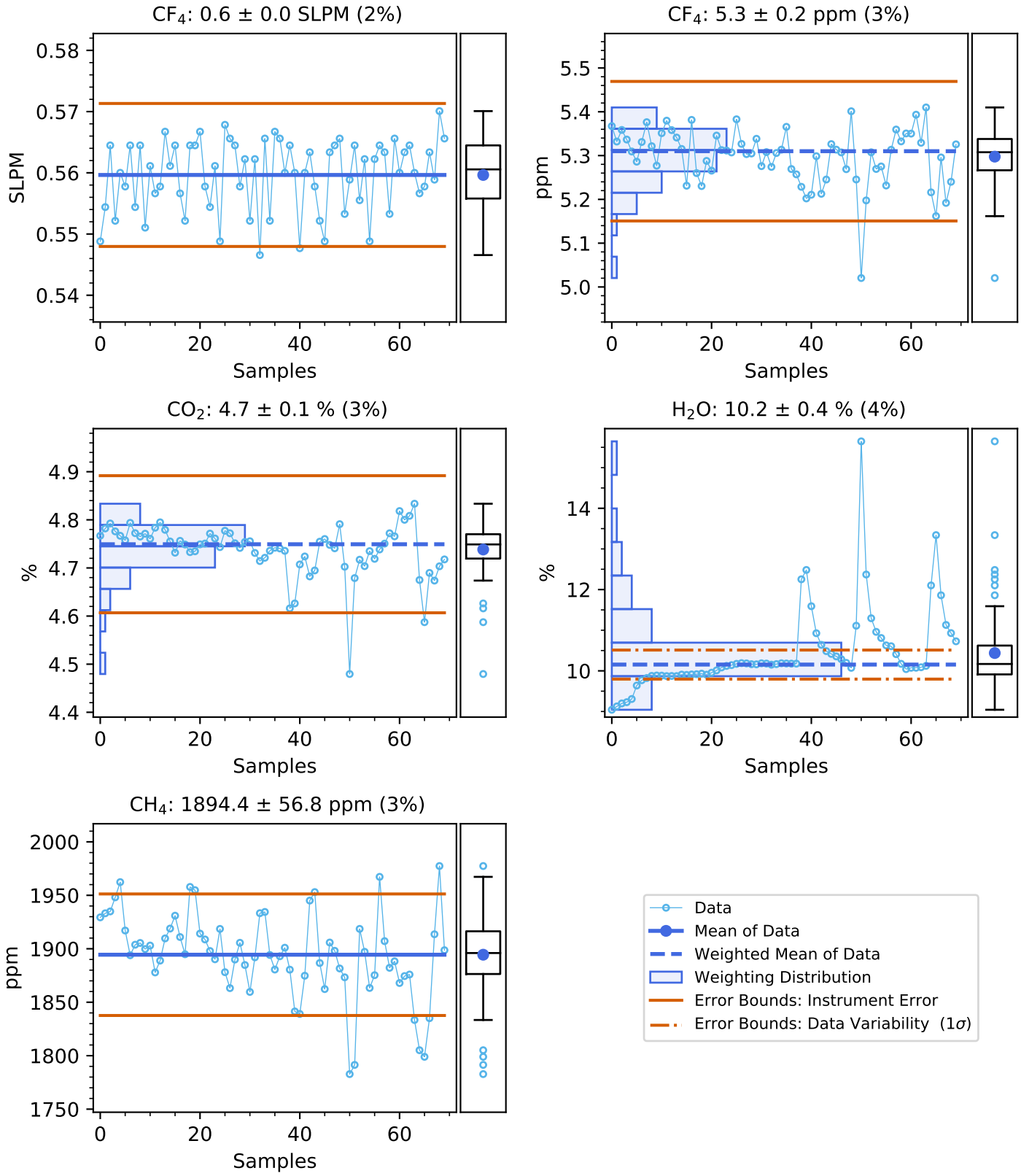
Facility: 2575 Unit: 1 Test: 1



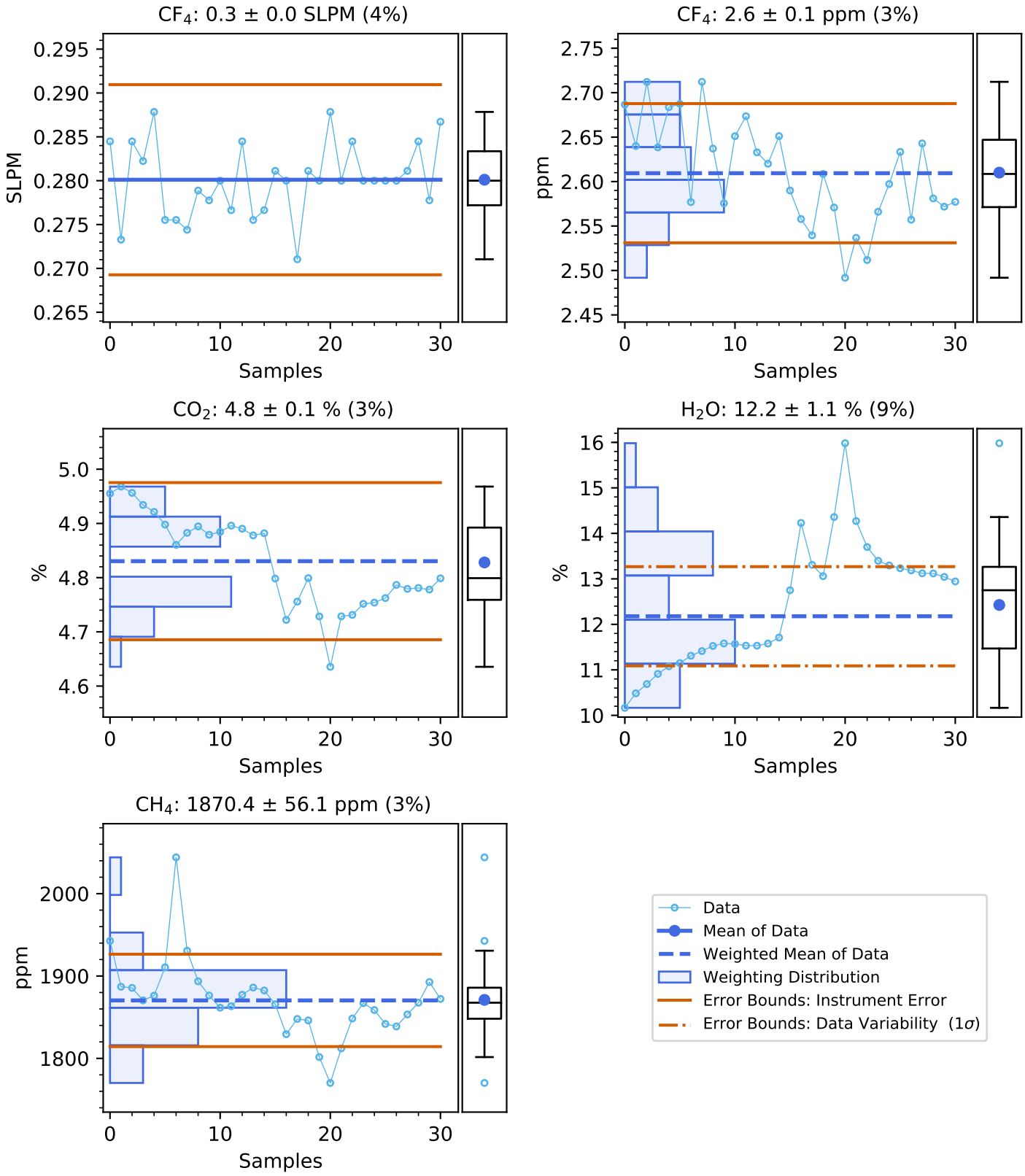
Facility: 2575 Unit: 1 Test: 2



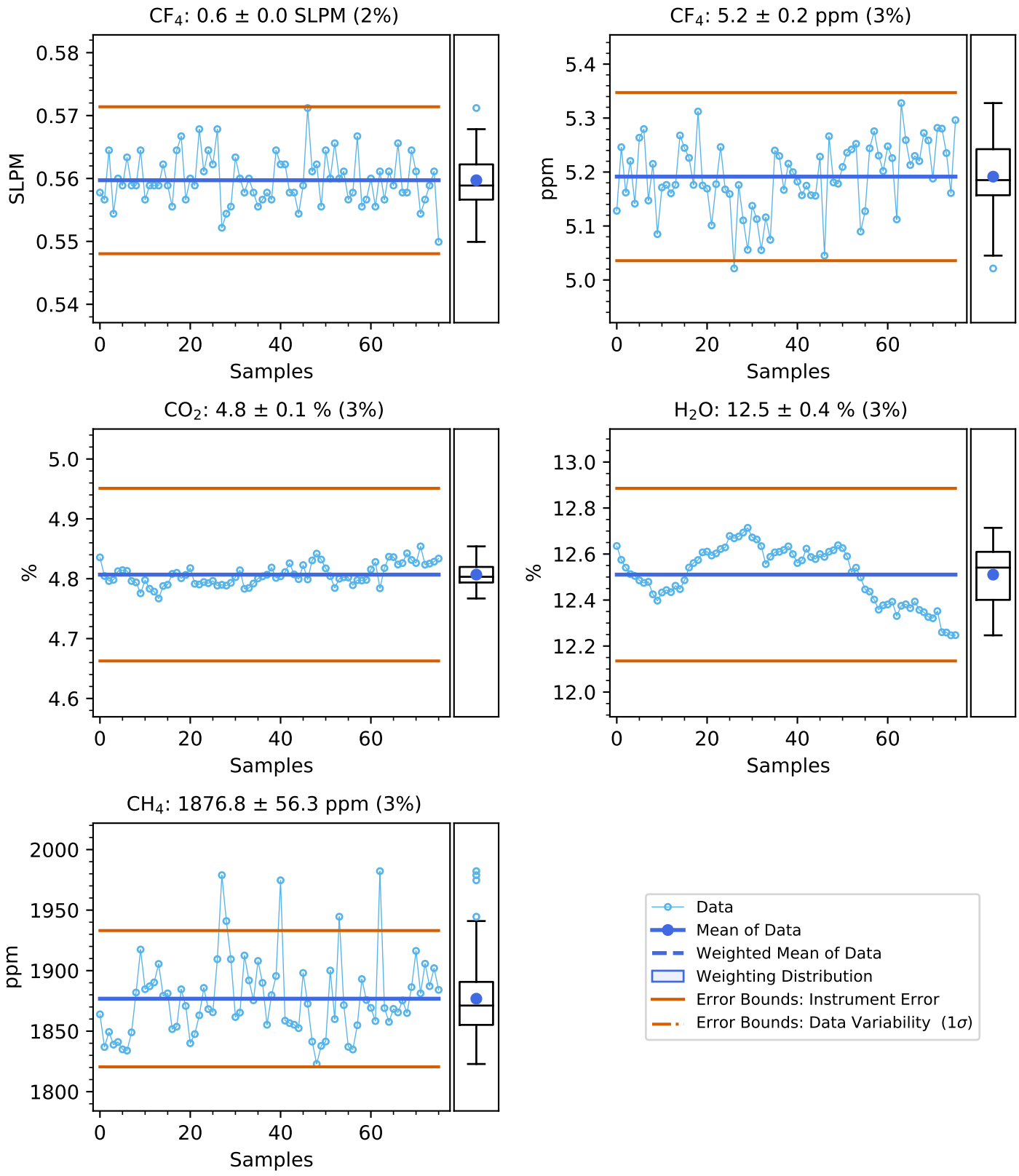
Facility: 2575 Unit: 1 Test: 3



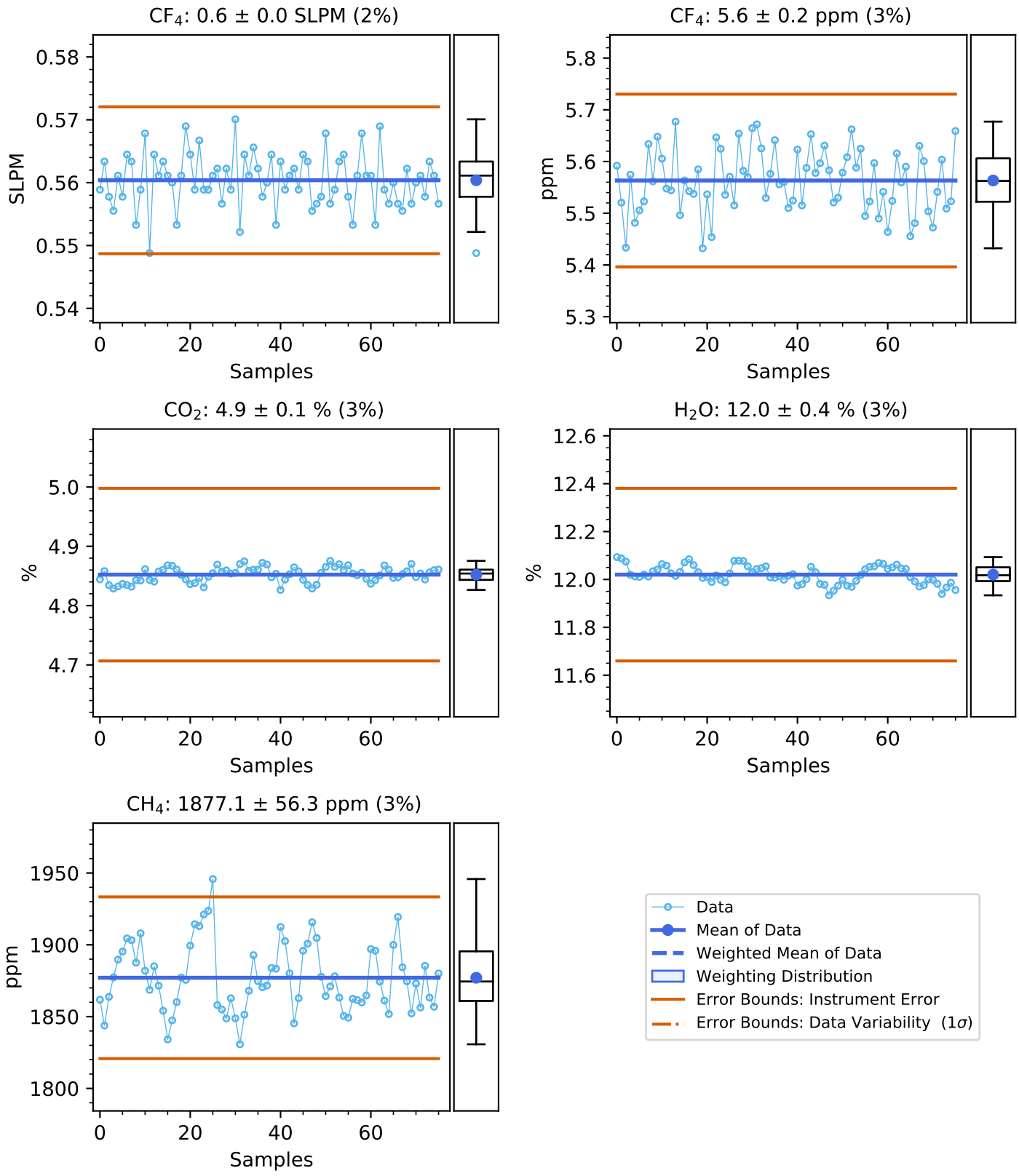
Facility: 2575 Unit: 2 Test: 1



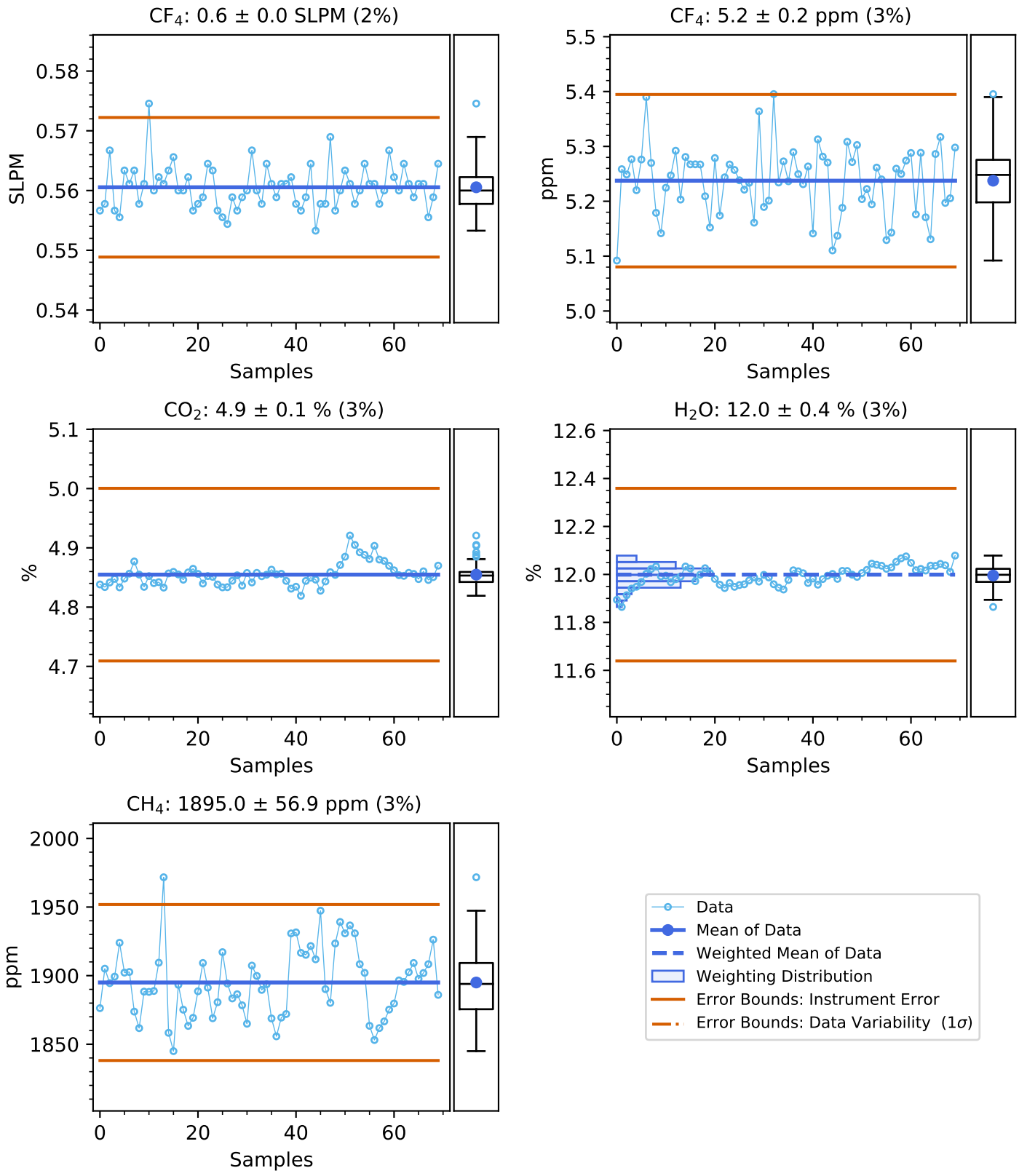
Facility: 2575 Unit: 2 Test: 2



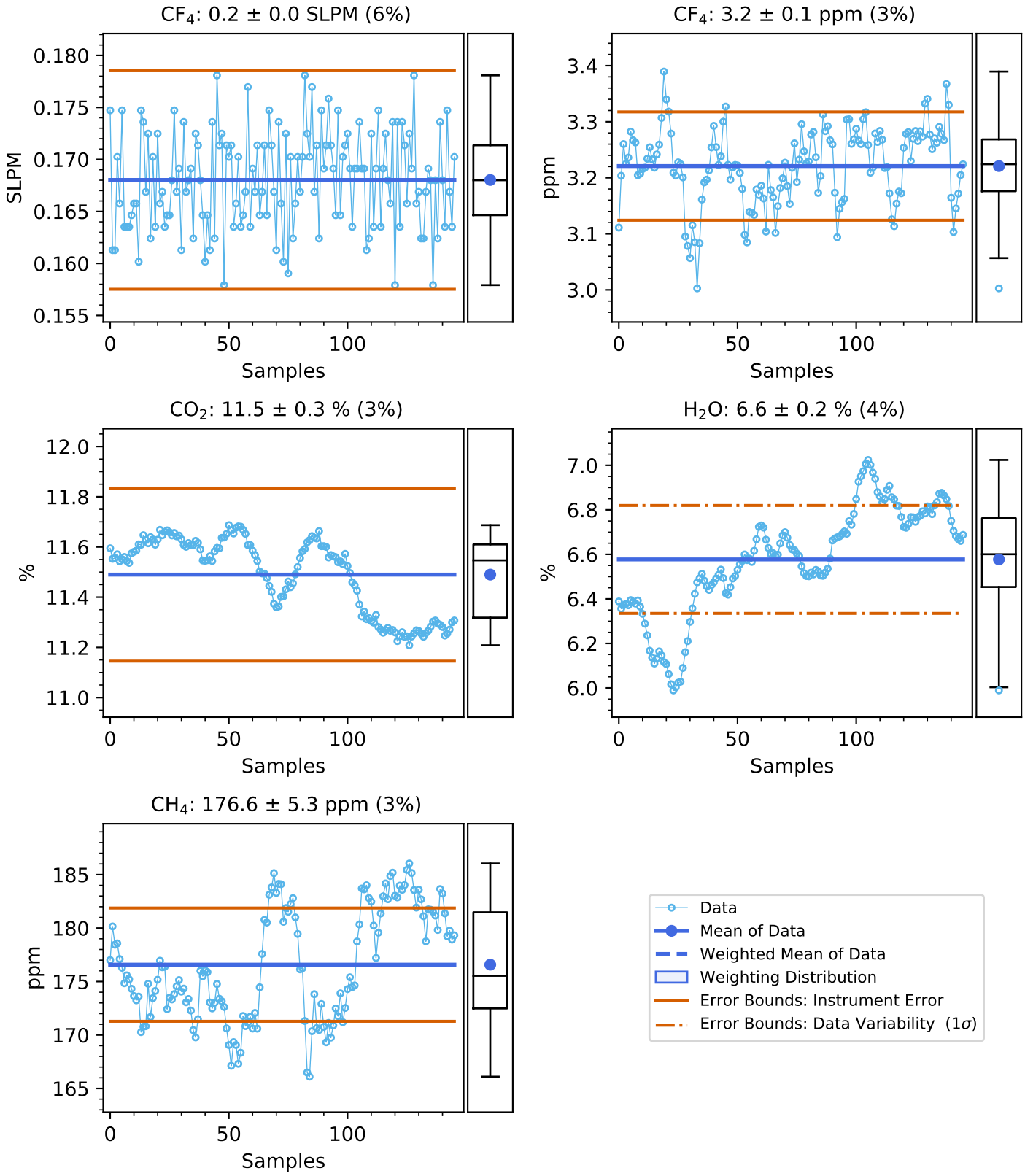
Facility: 2575 Unit: 2 Test: 3



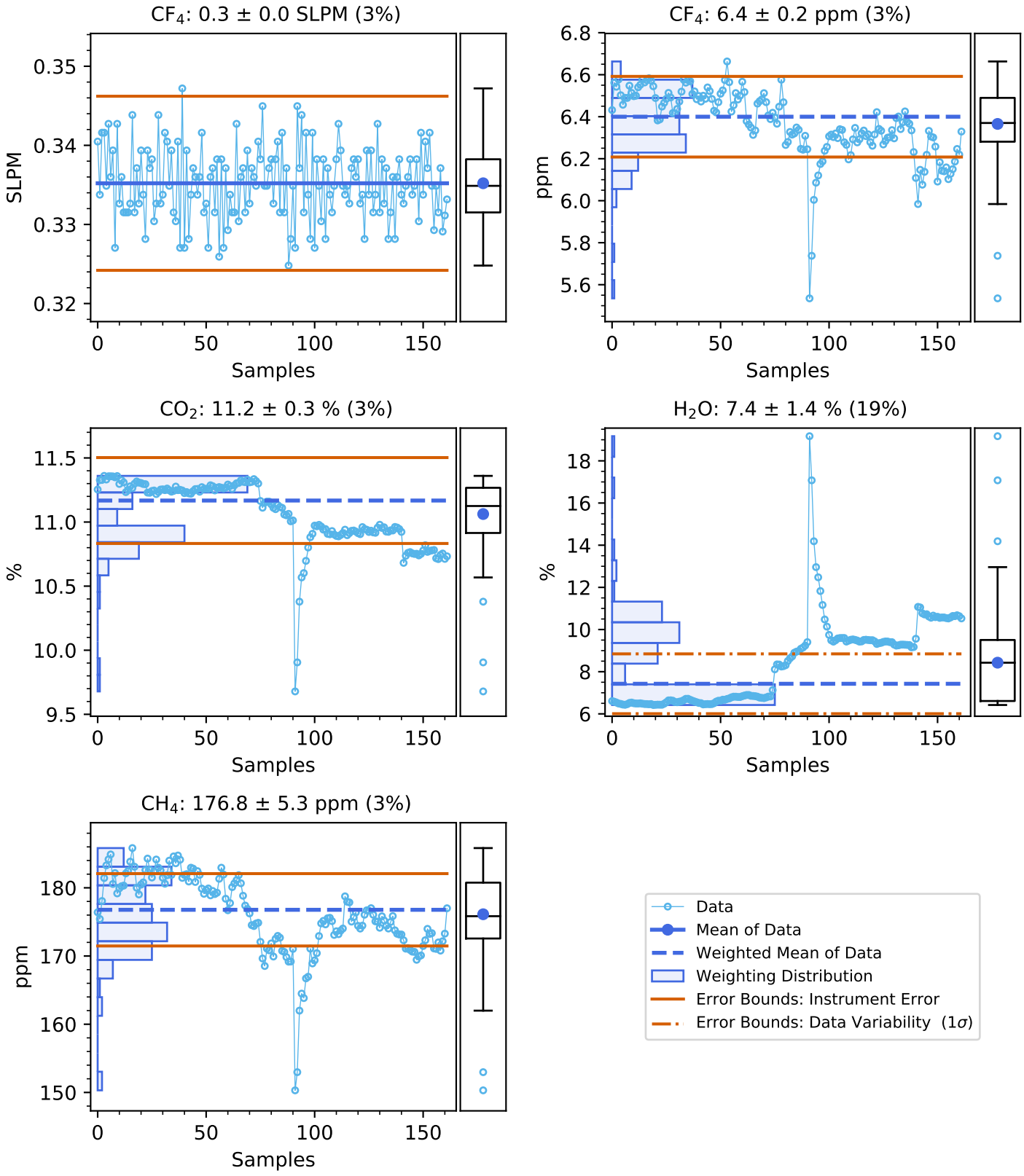
Facility: 2575 Unit: 2 Test: 4



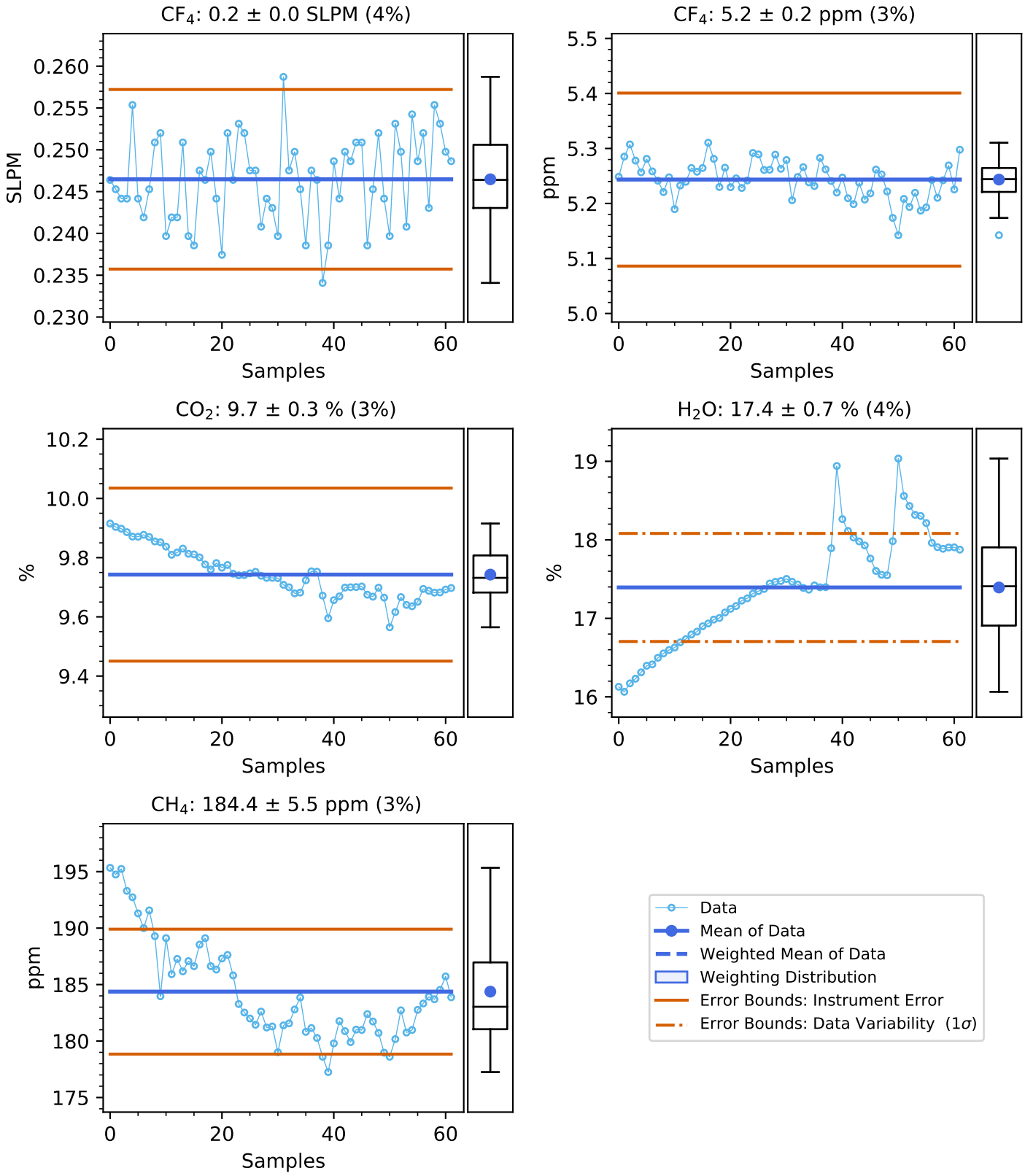
Facility: 2736 Unit: 1 Test: 1



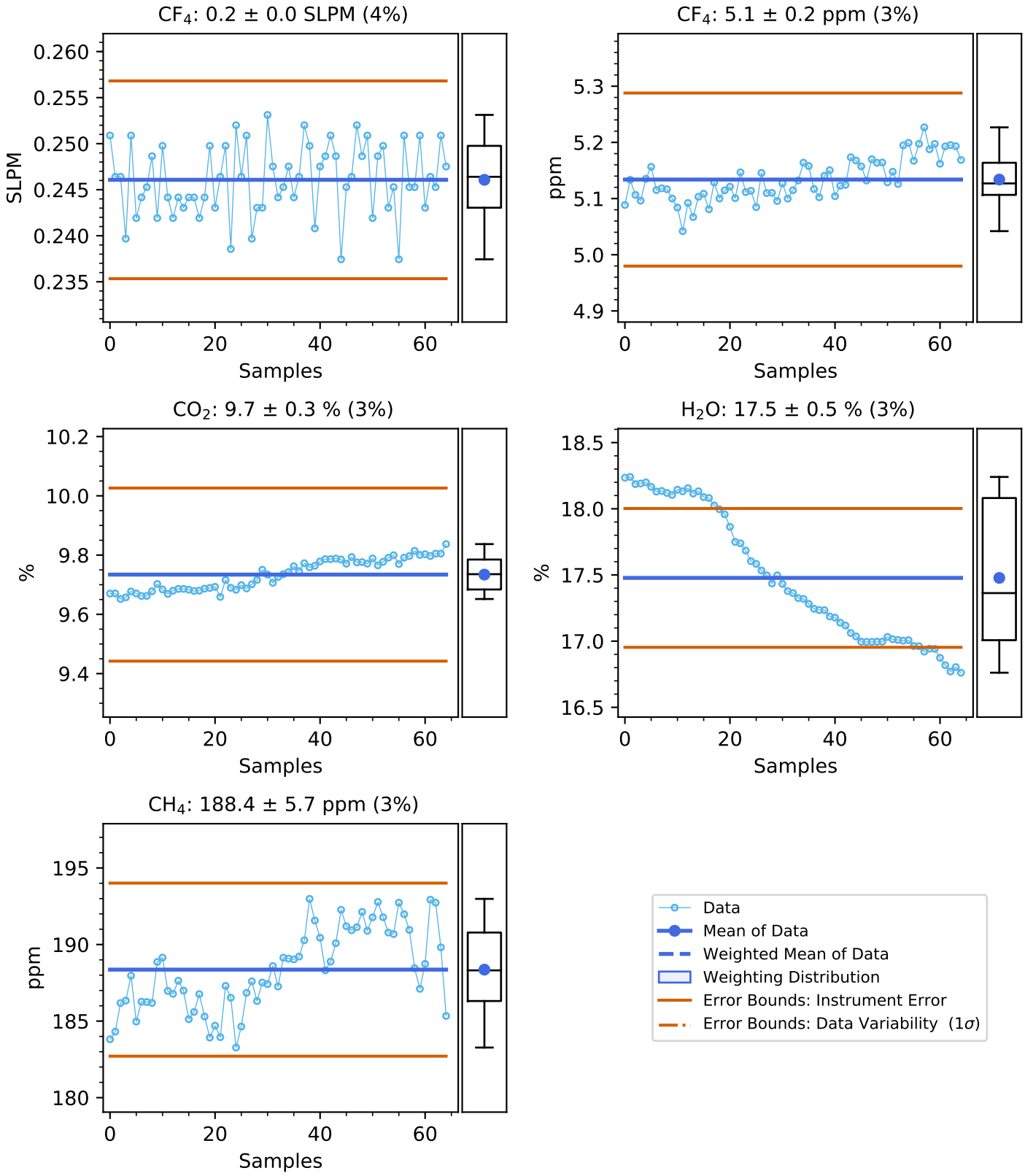
Facility: 2736 Unit: 1 Test: 2



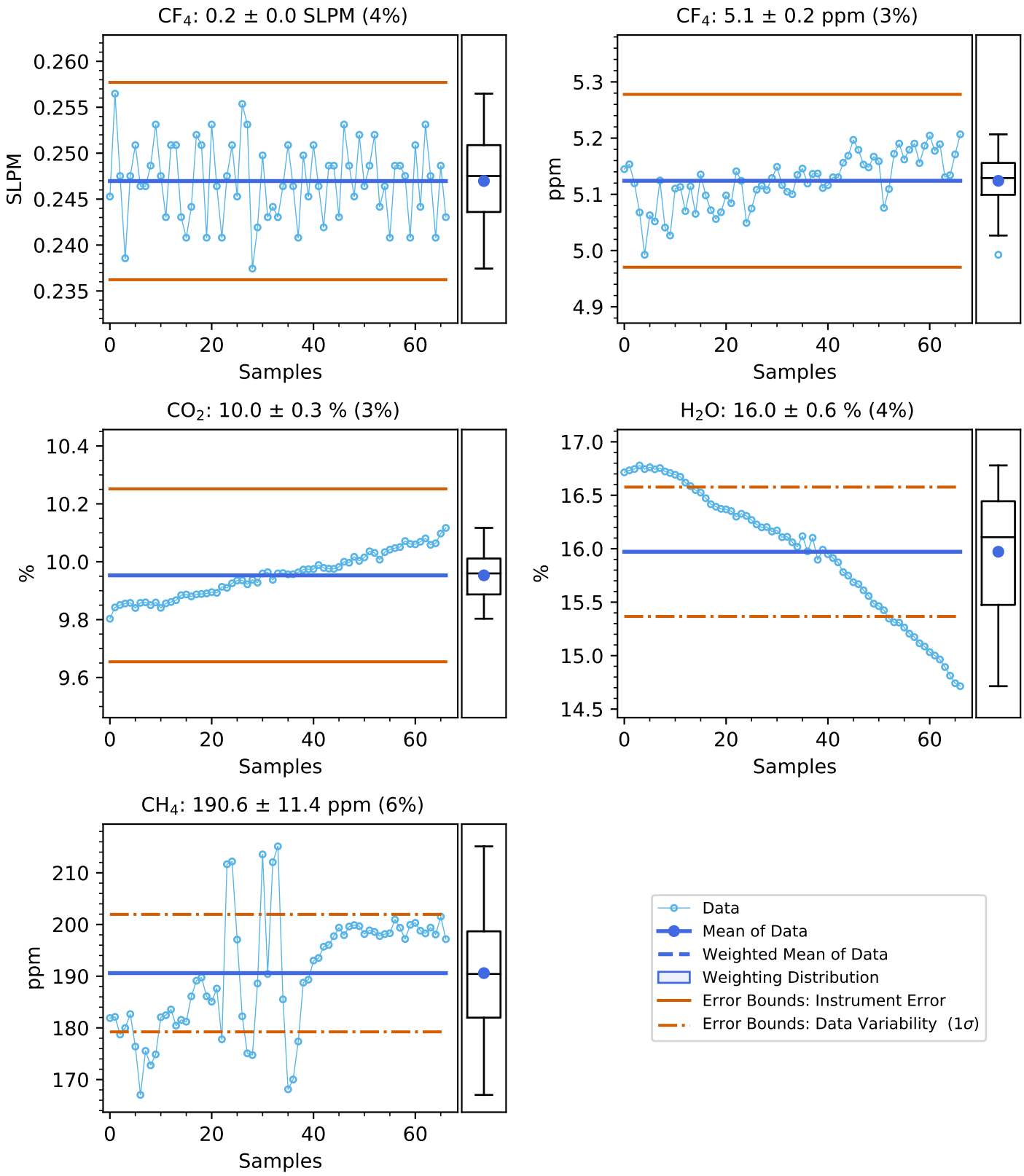
Facility: 2773 Unit: 1 Test: 1



Facility: 2773 Unit: 1 Test: 2



Facility: 2773 Unit: 1 Test: 3



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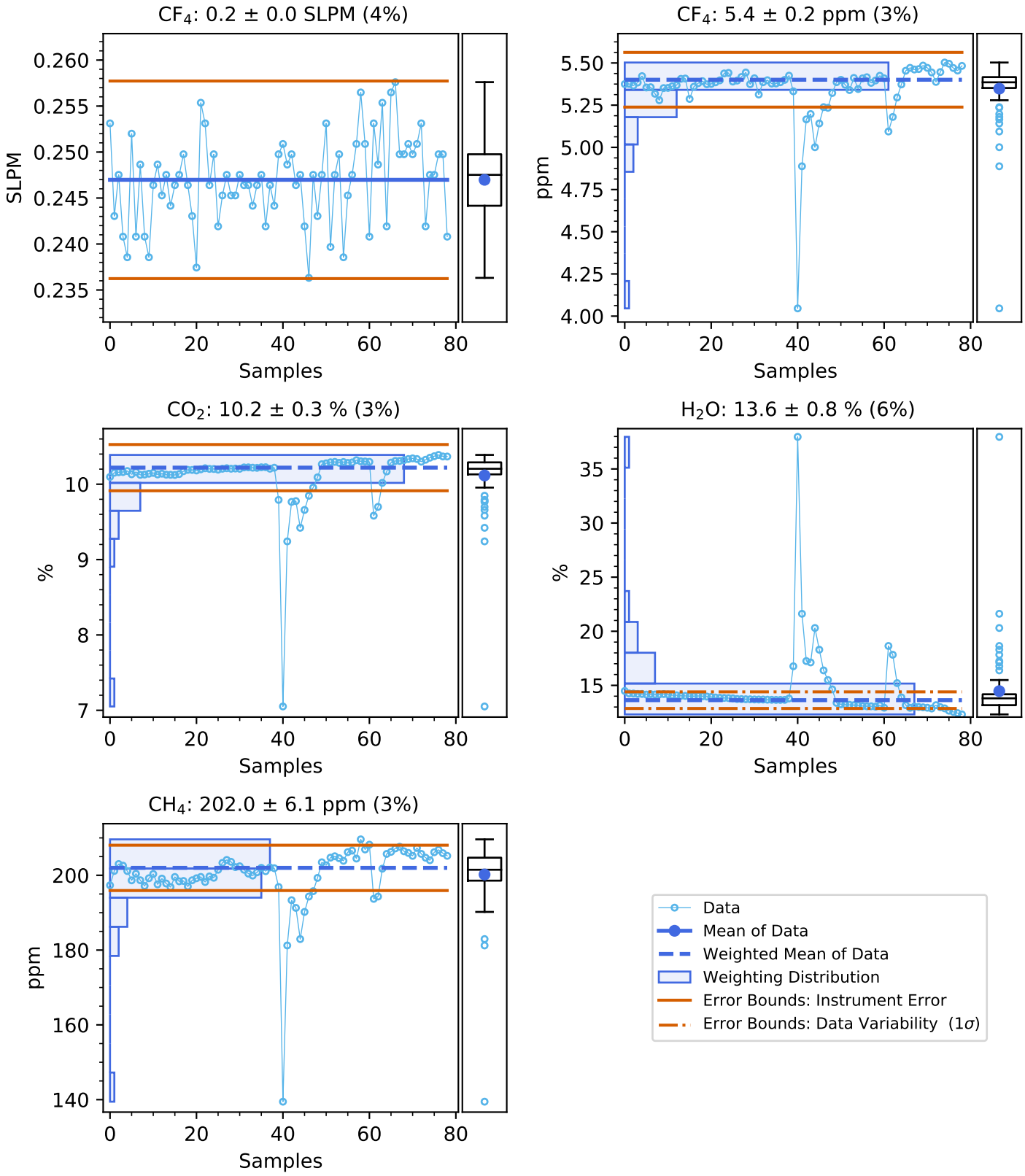
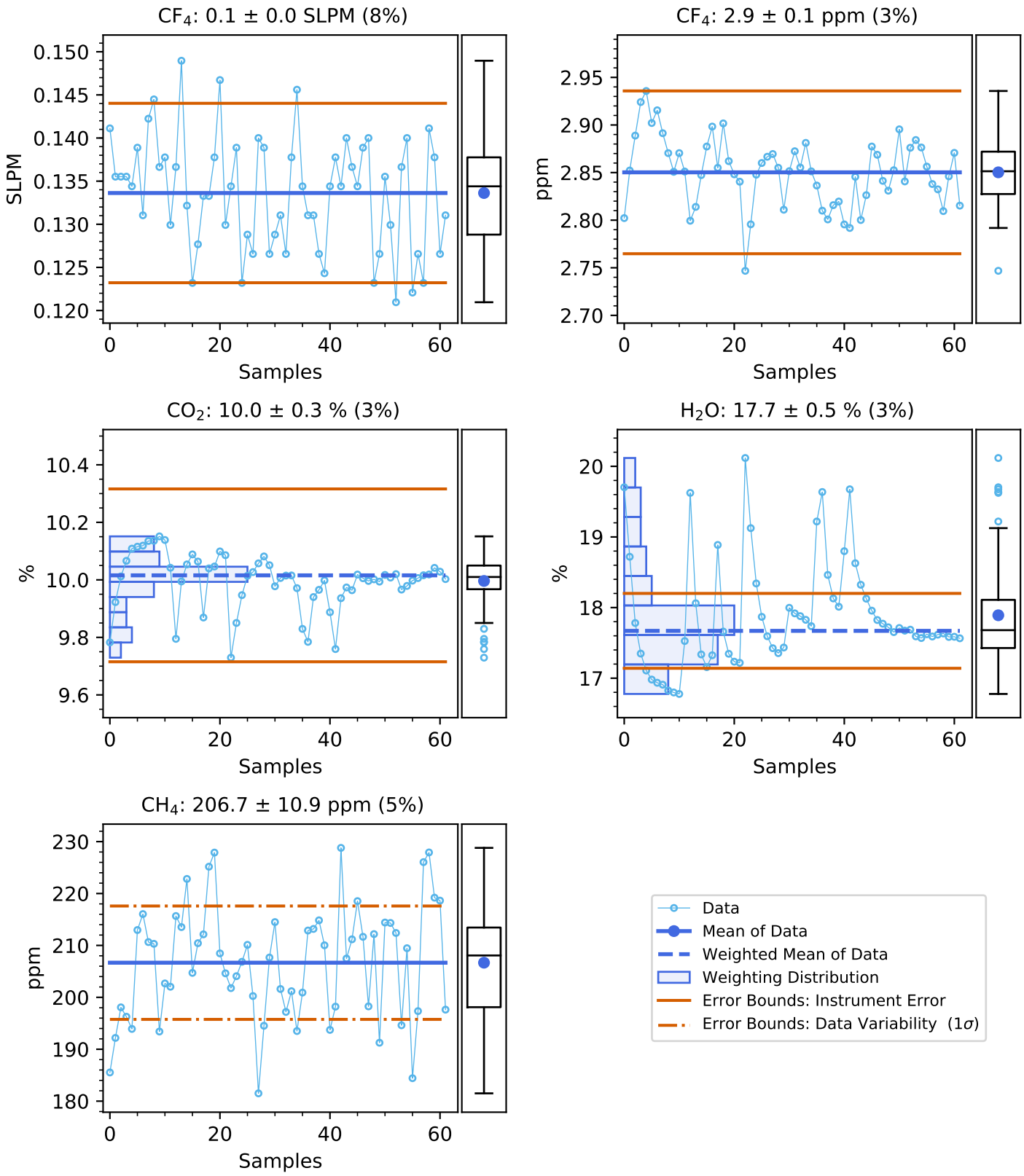
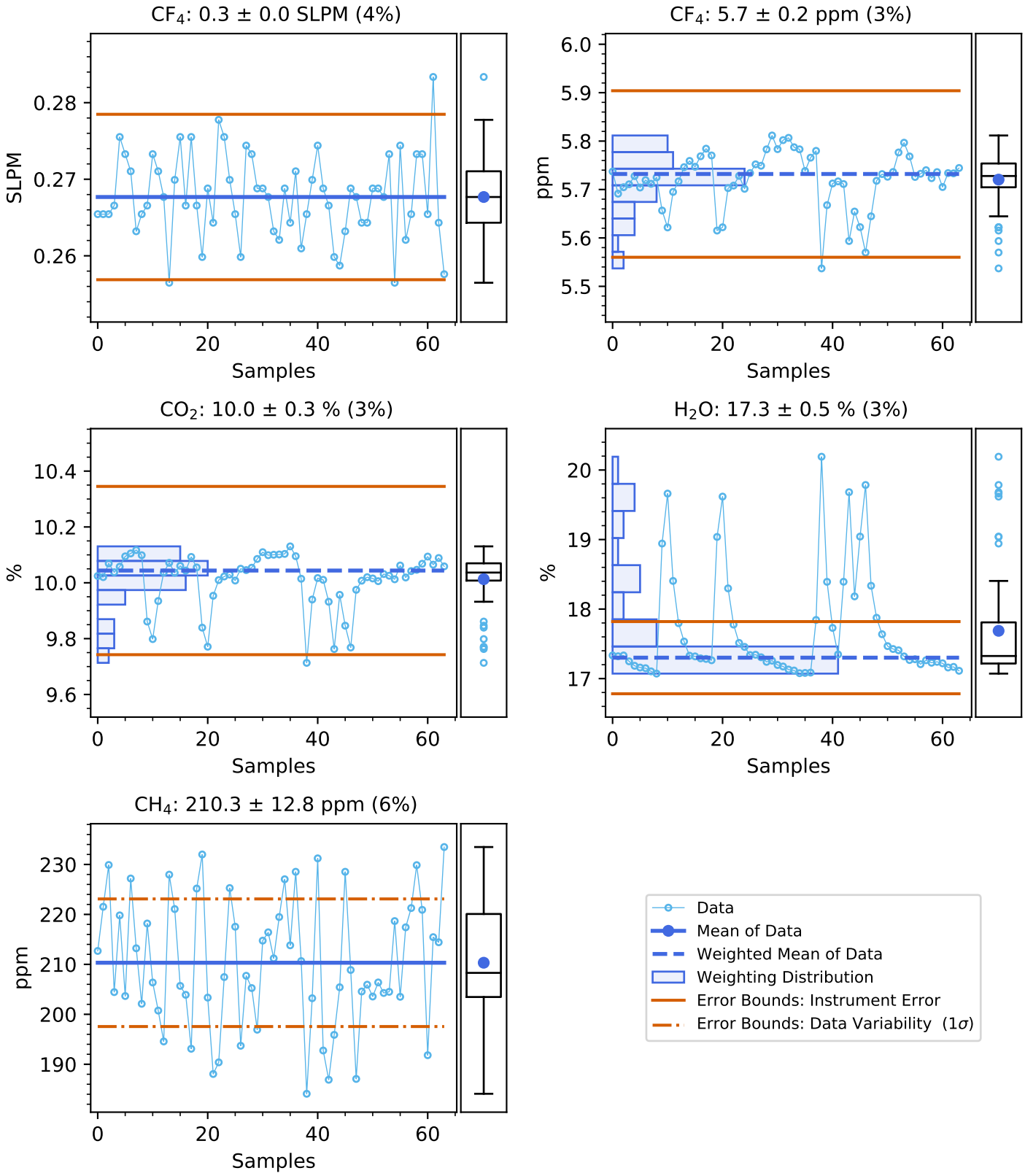


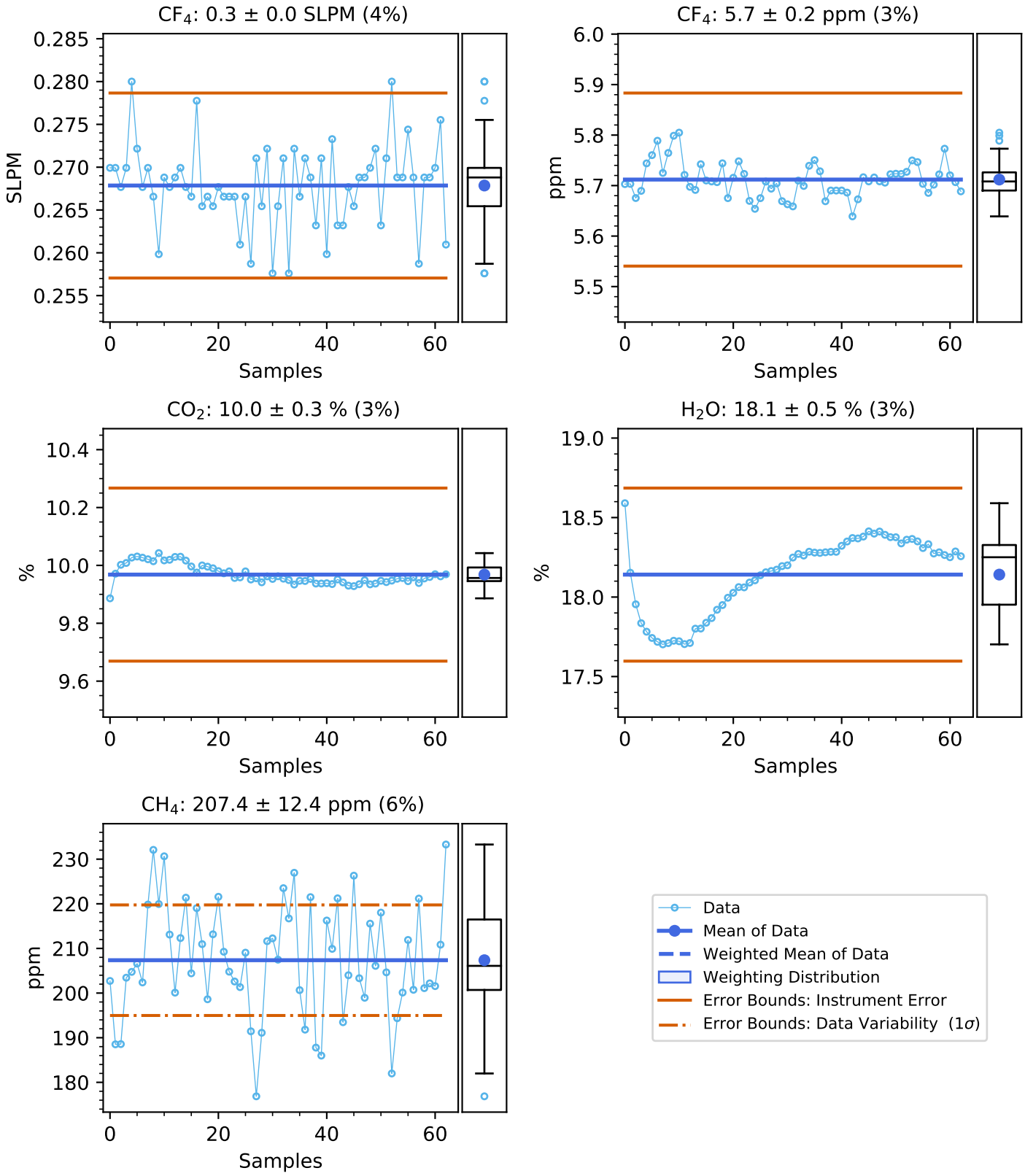
Facility: 2773 Unit: 2 Test: 1



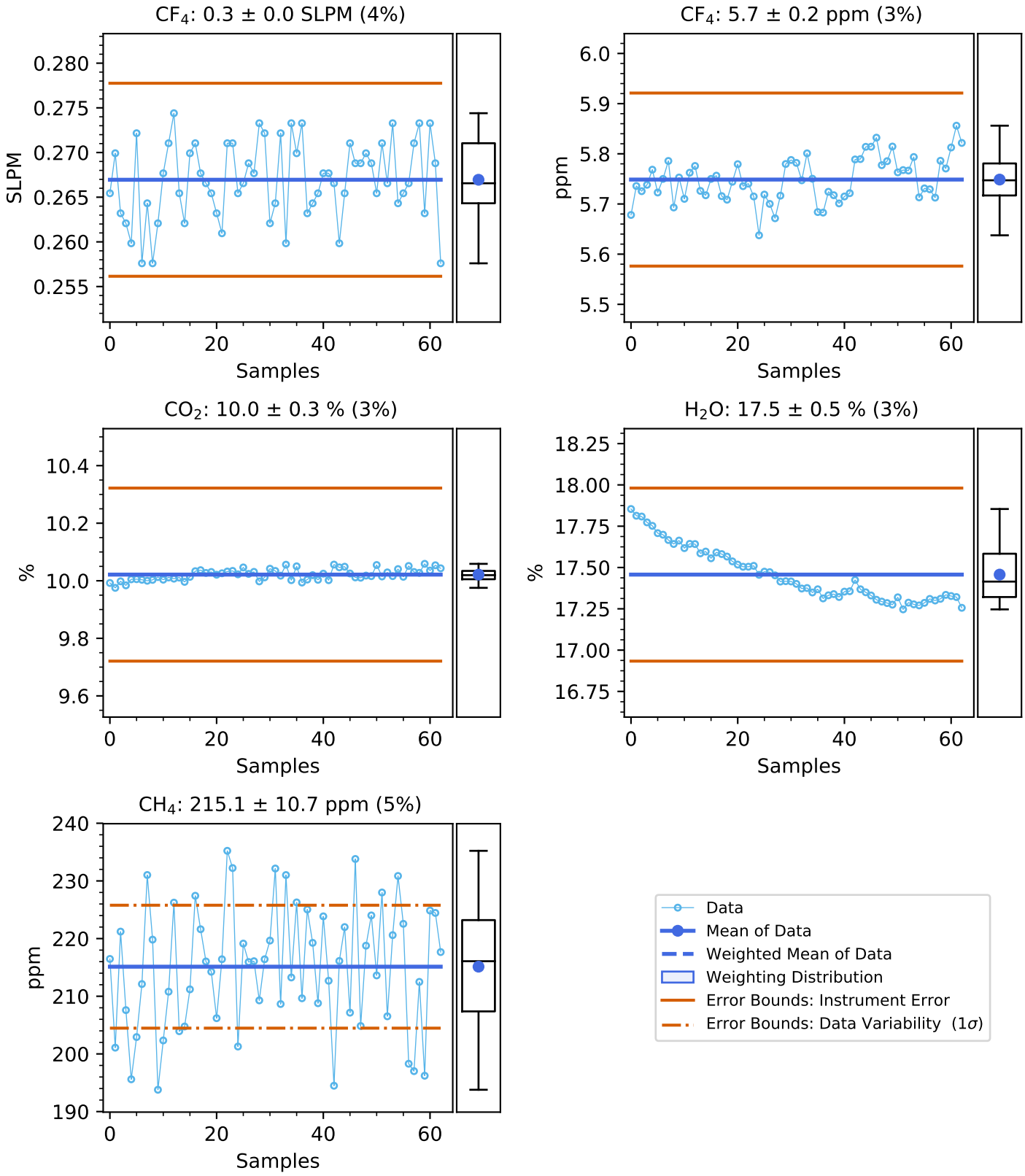
Facility: 2773 Unit: 2 Test: 2



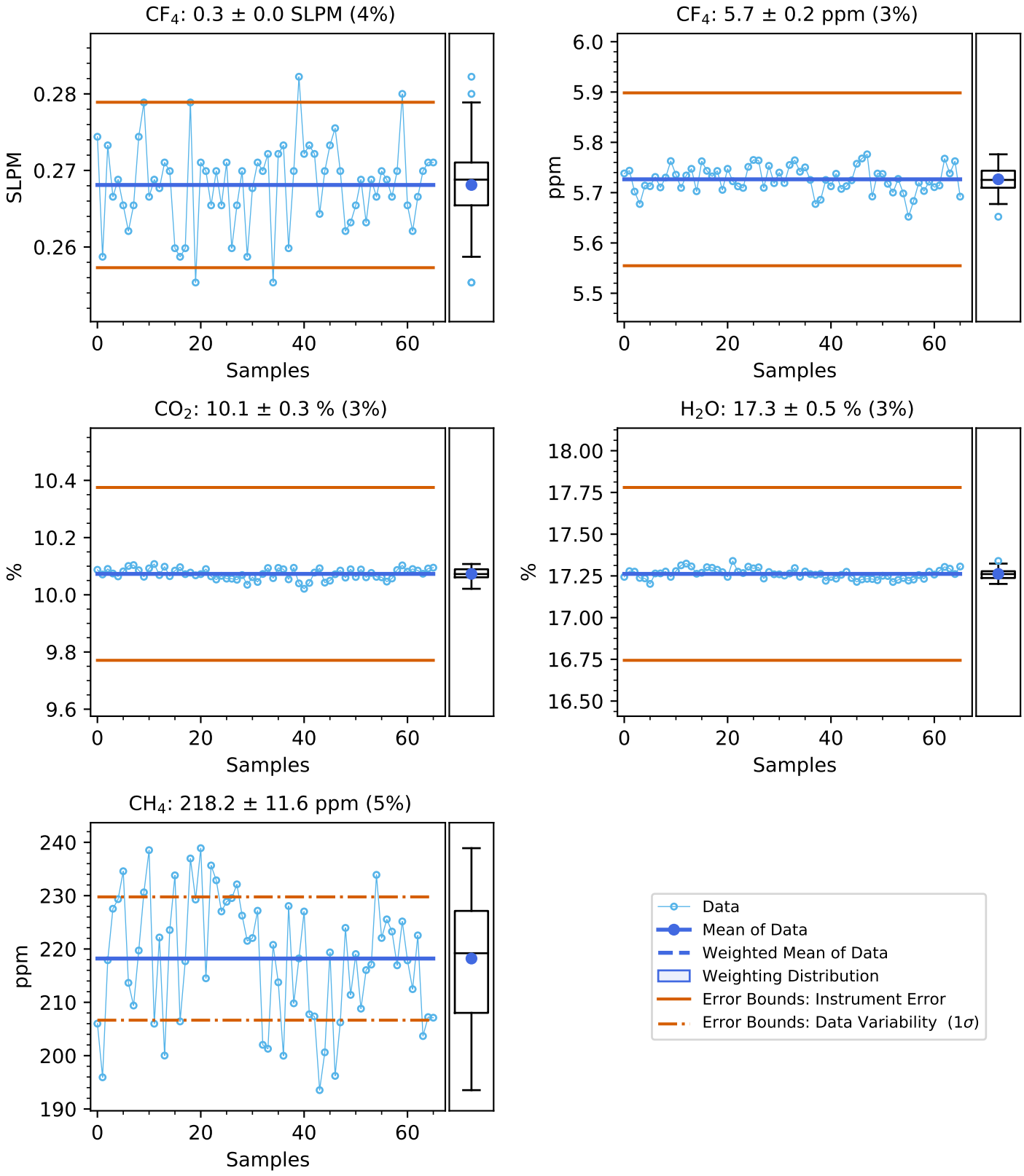
Facility: 2773 Unit: 2 Test: 3



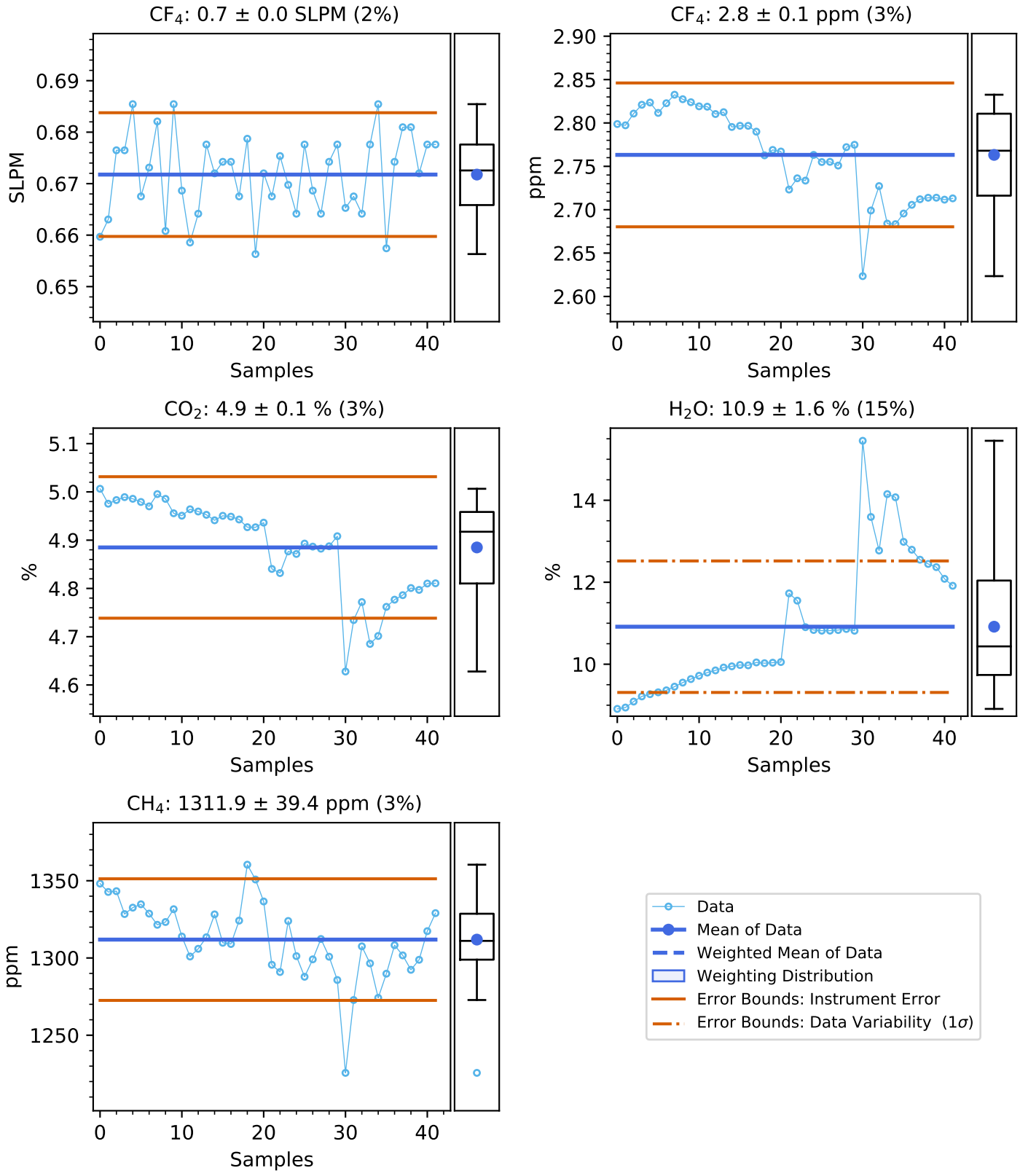
Facility: 2773 Unit: 2 Test: 4



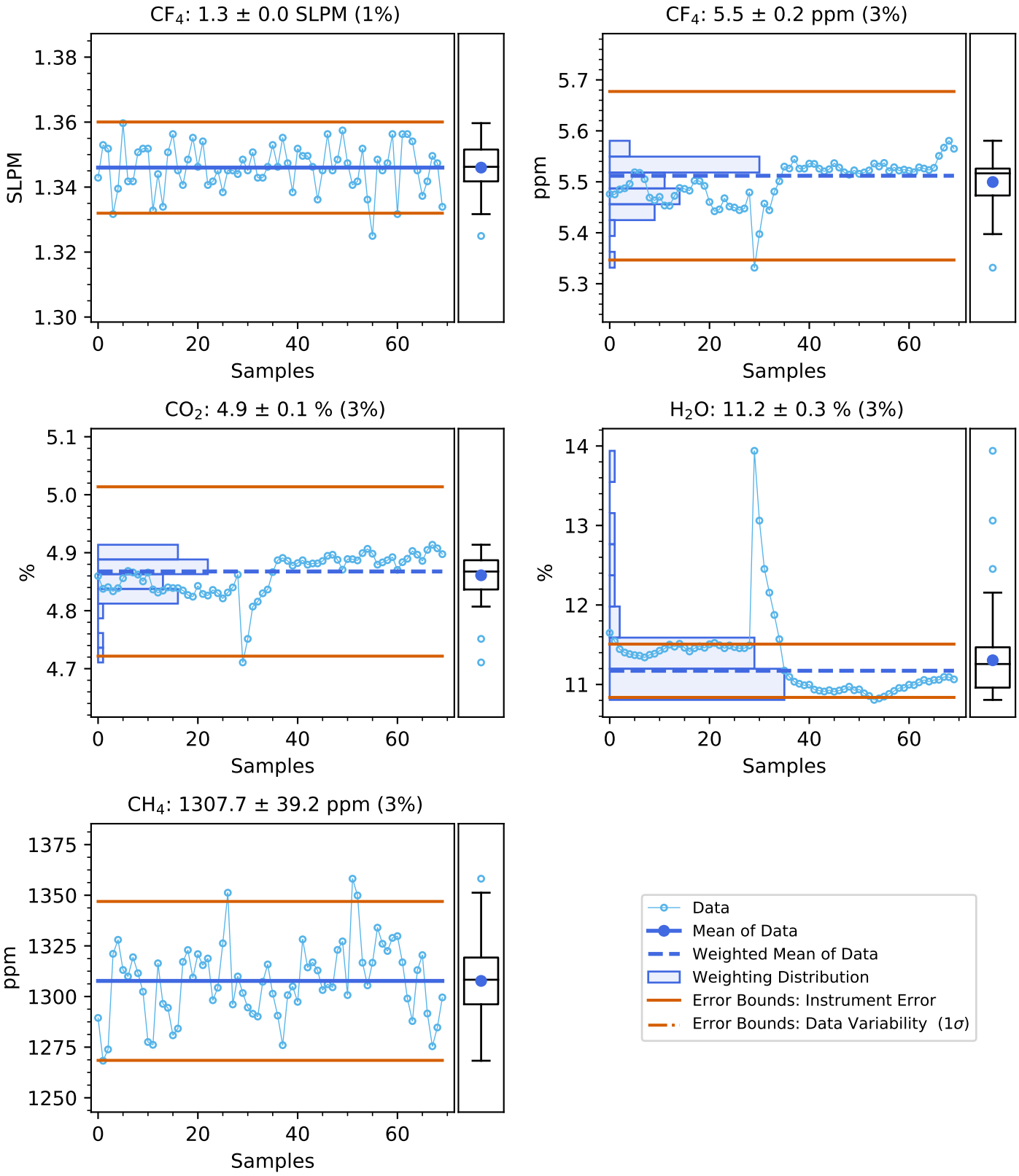
Facility: 2773 Unit: 2 Test: 5



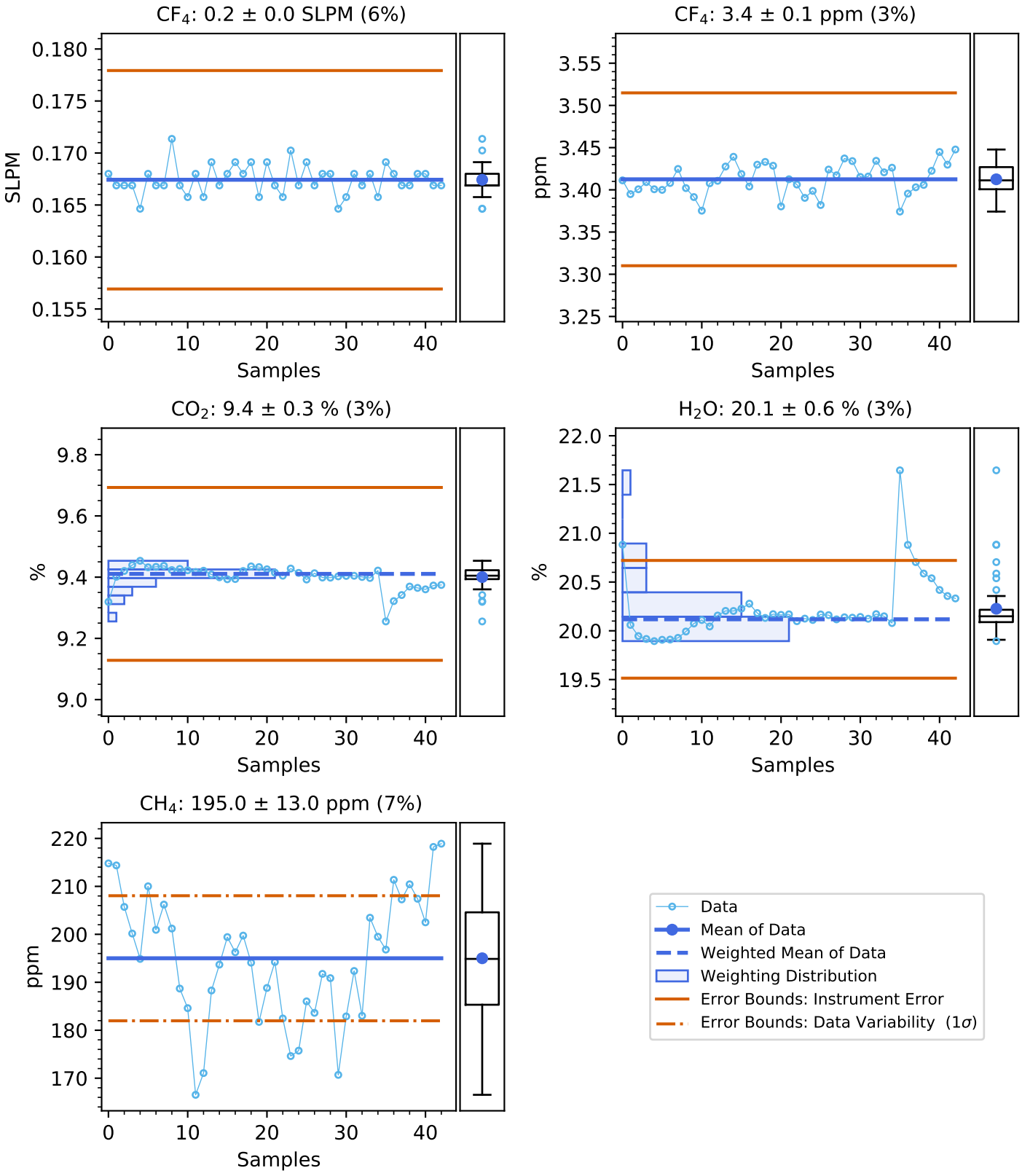
Facility: 2551 Unit: 1 Test: 1



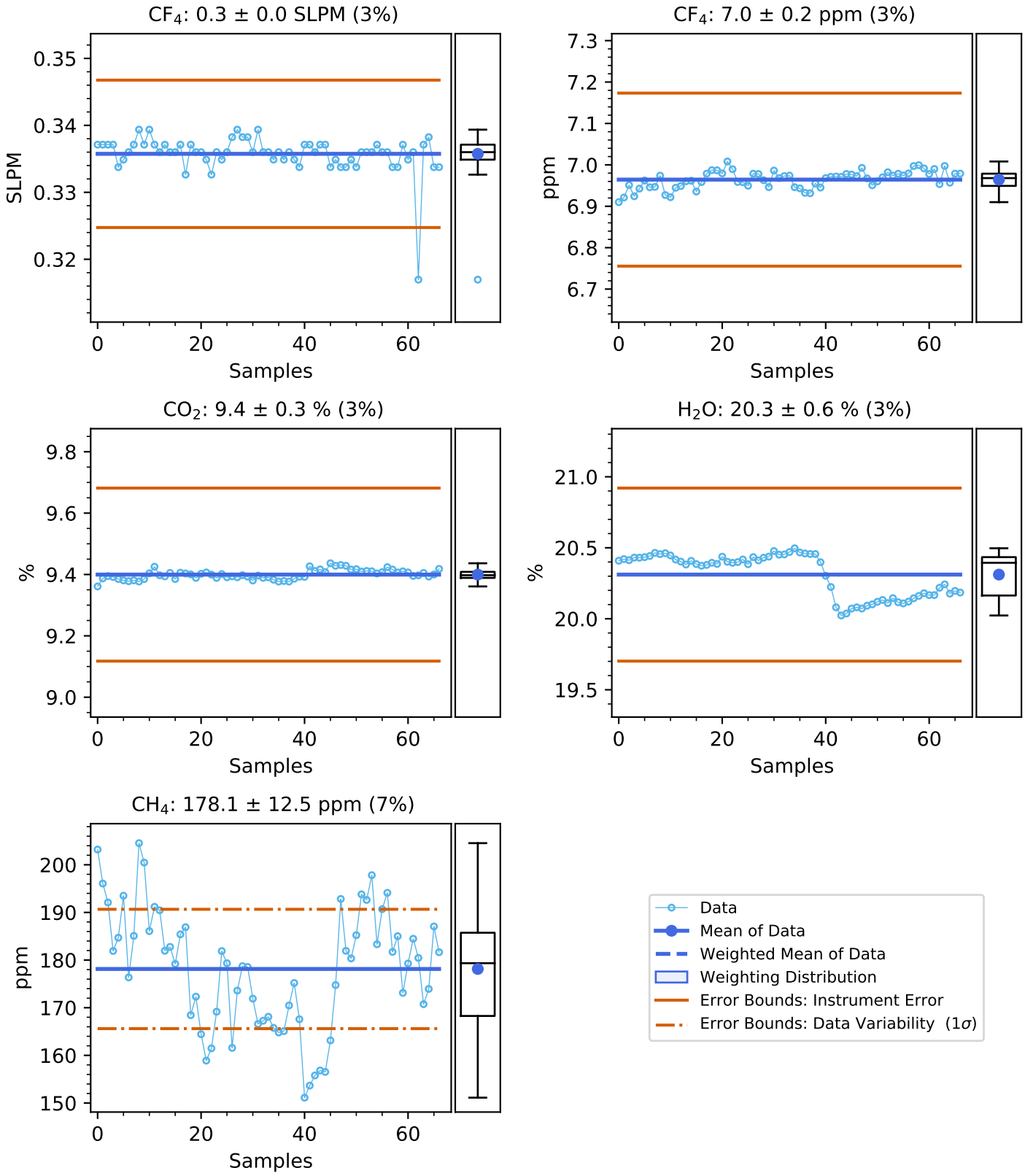
Facility: 2551 Unit: 1 Test: 2



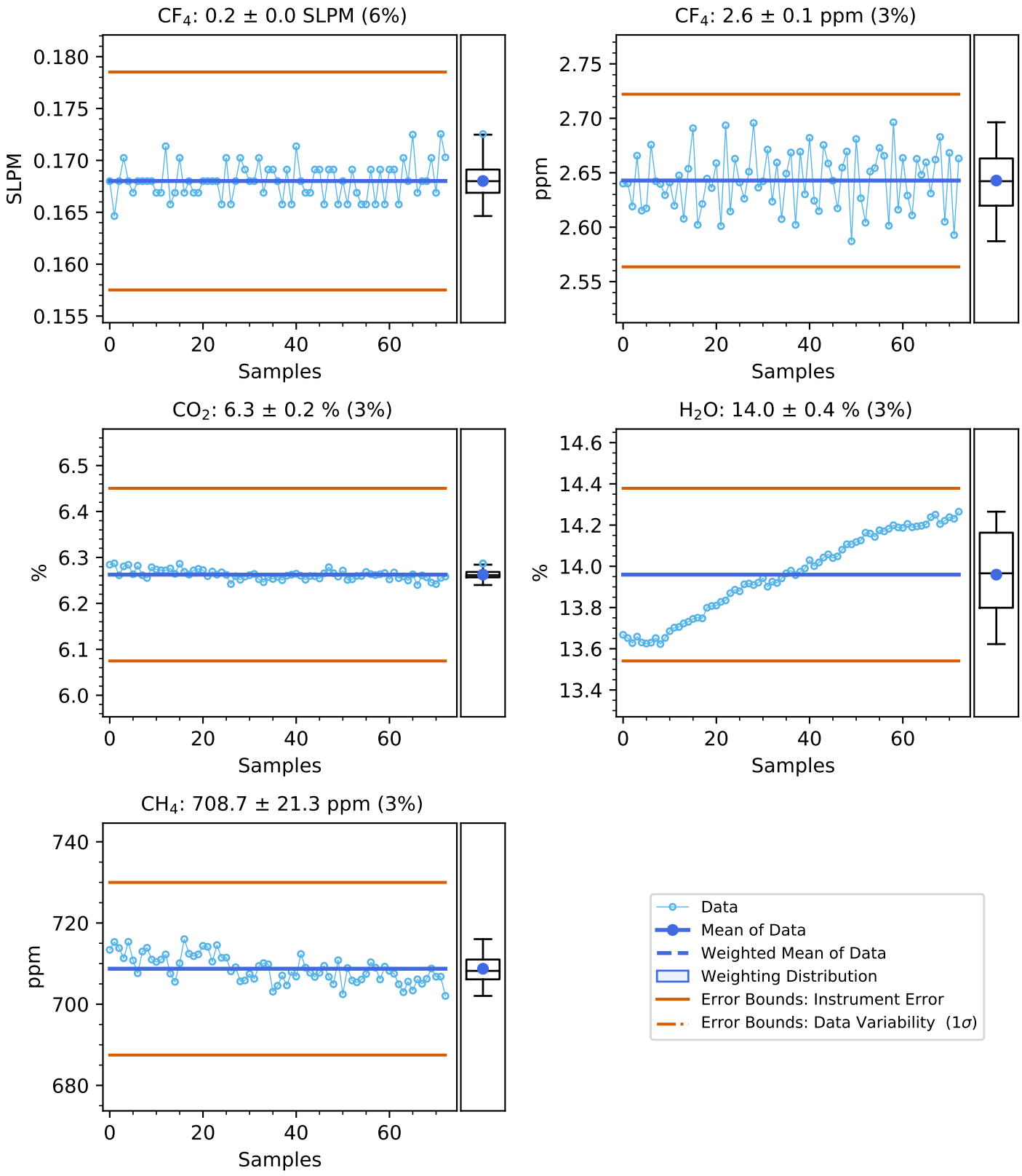
Facility: 1315 Unit: 1 Test: 1



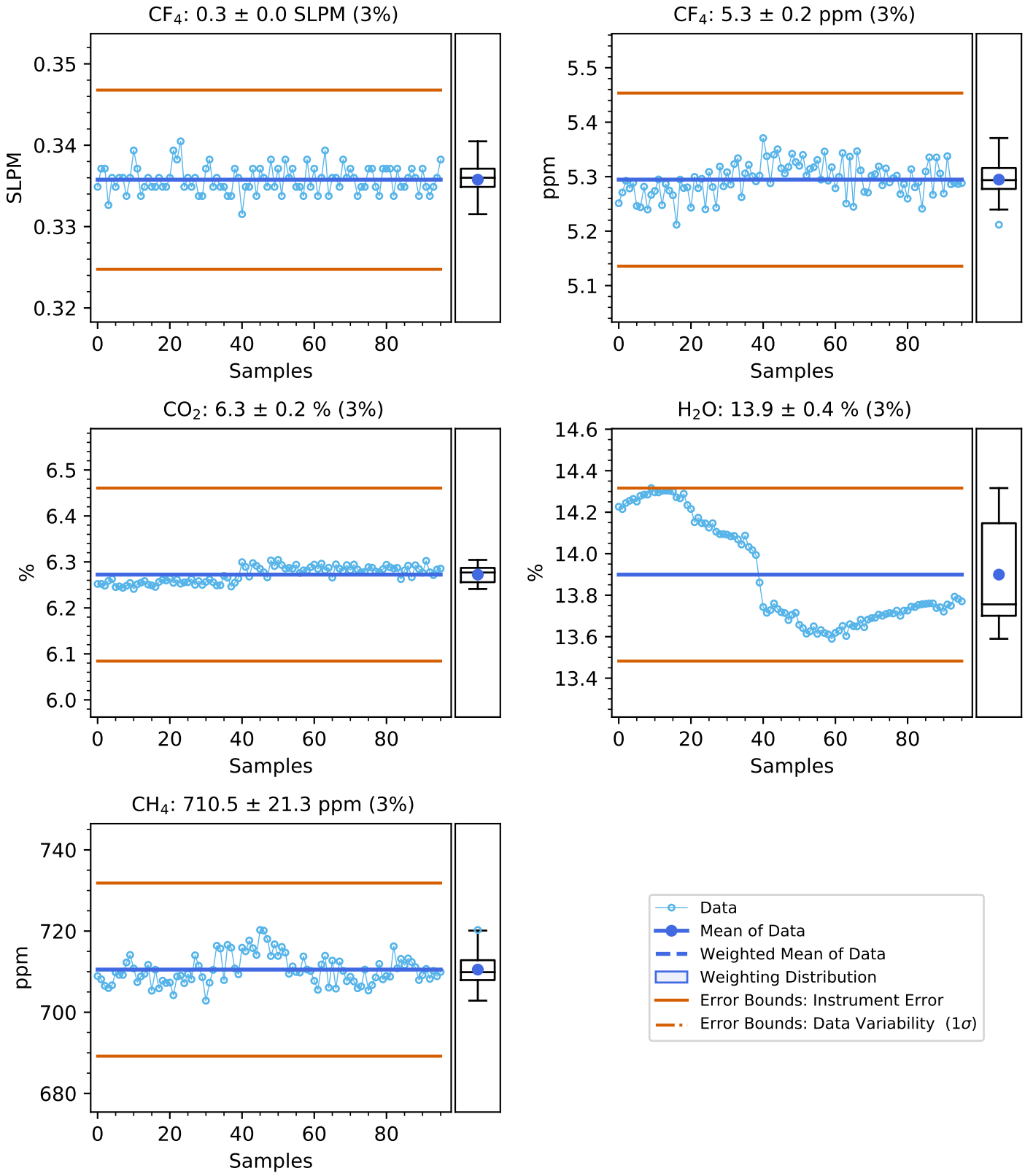
Facility: 1315 Unit: 1 Test: 2



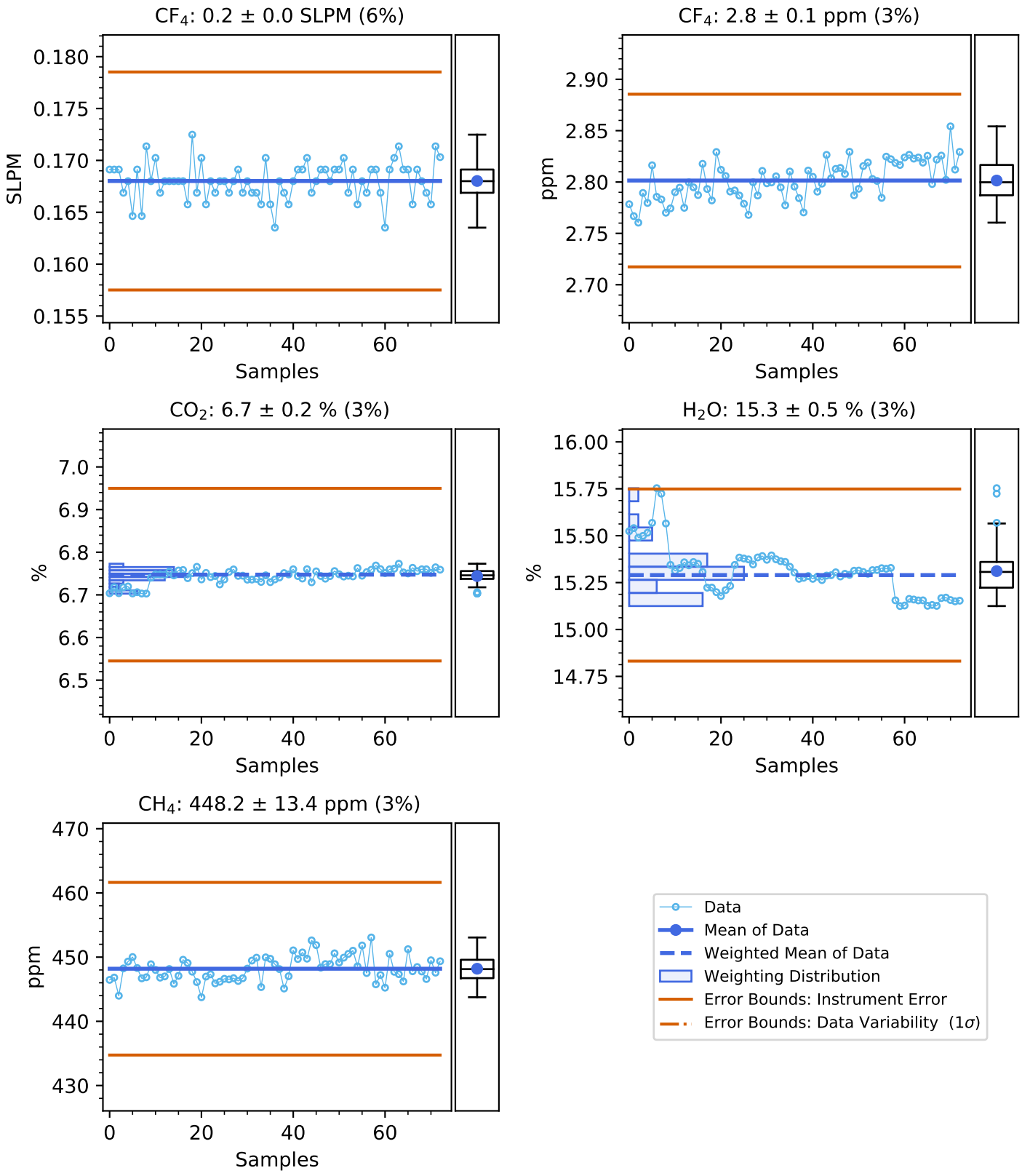
Facility: 1315 Unit: 2 Test: 1



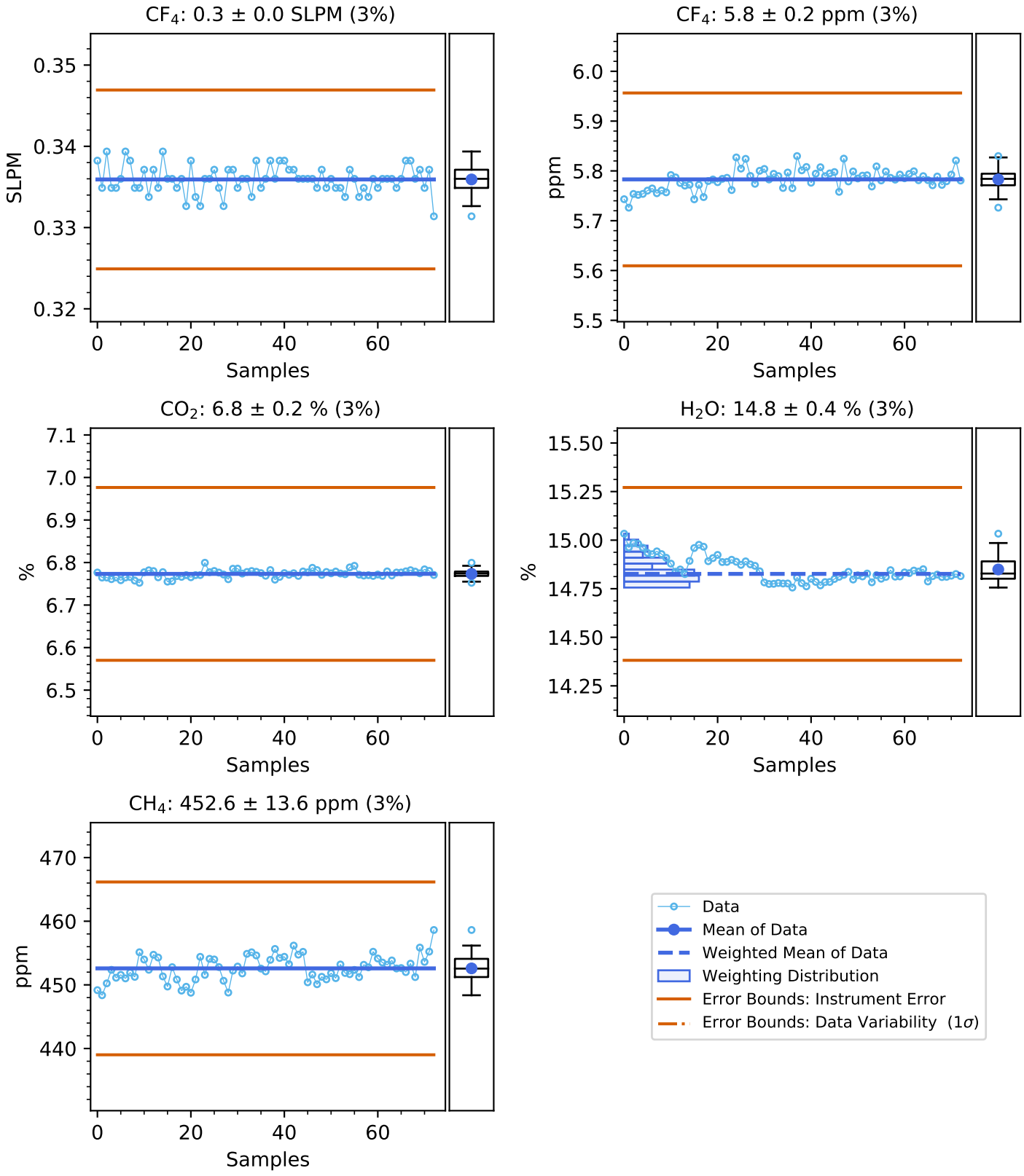
Facility: 1315 Unit: 2 Test: 2



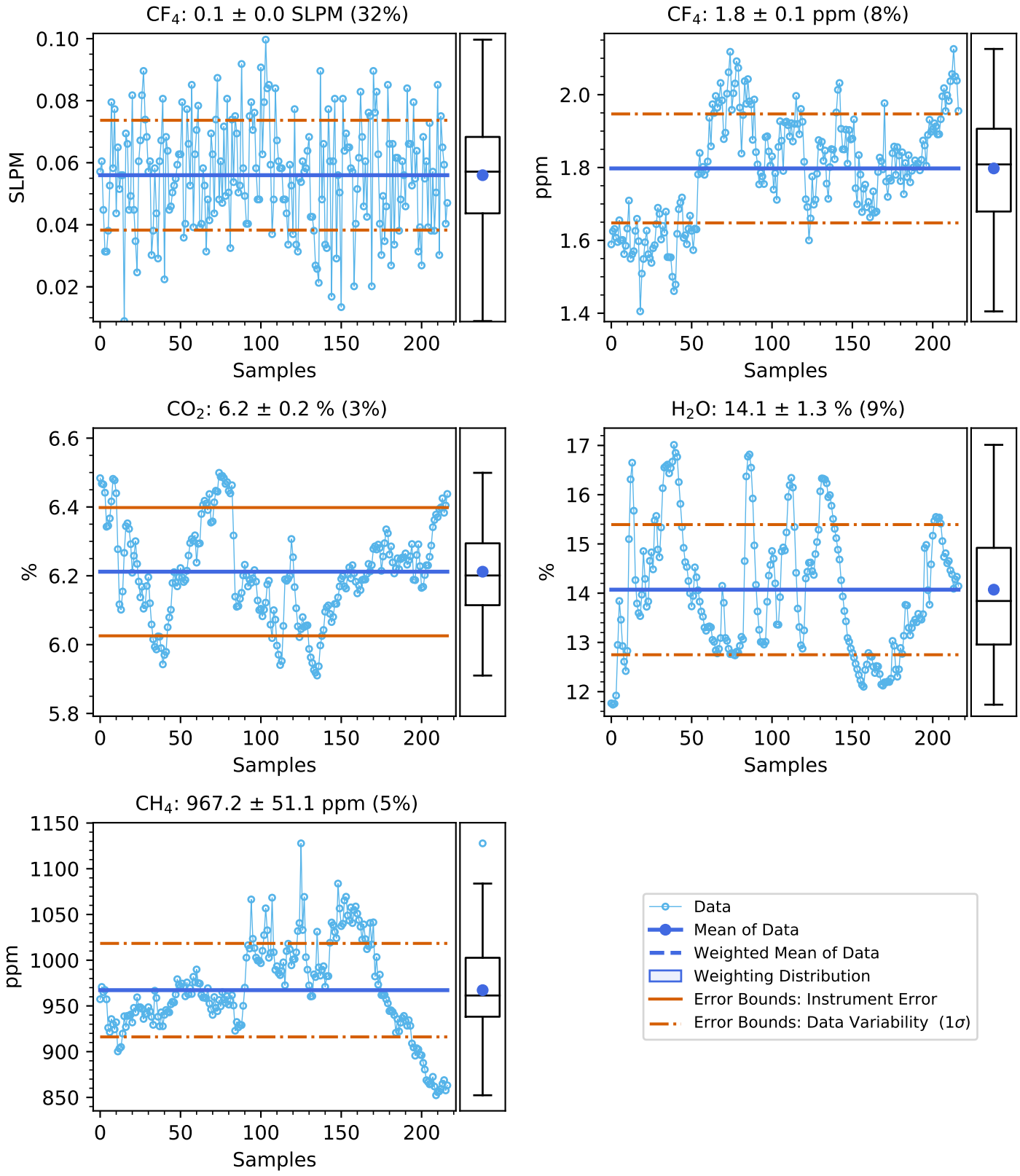
Facility: 1315 Unit: 3 Test: 1



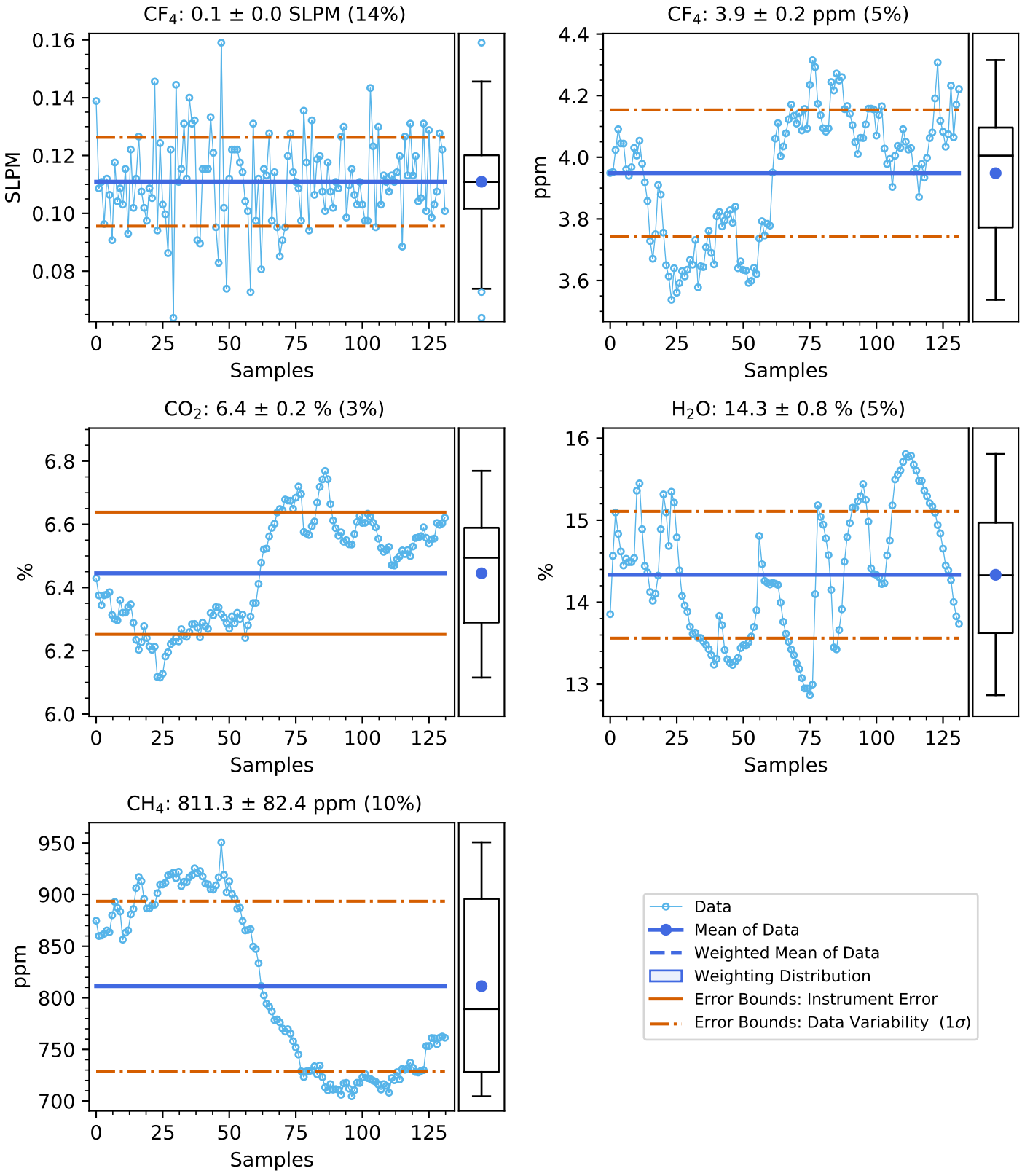
Facility: 1315 Unit: 3 Test: 2



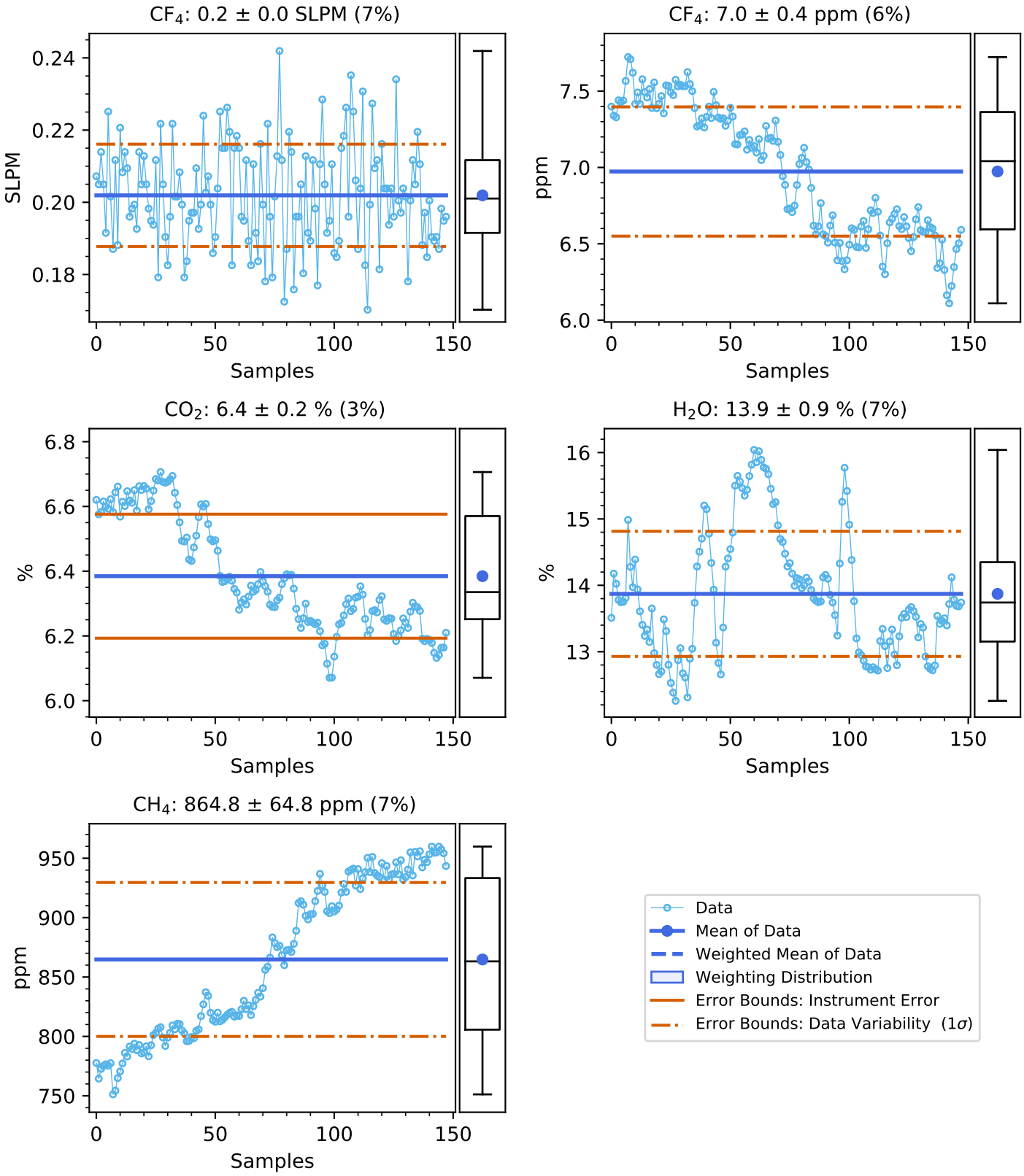
Facility: 1875 Unit: 1 Test: 1



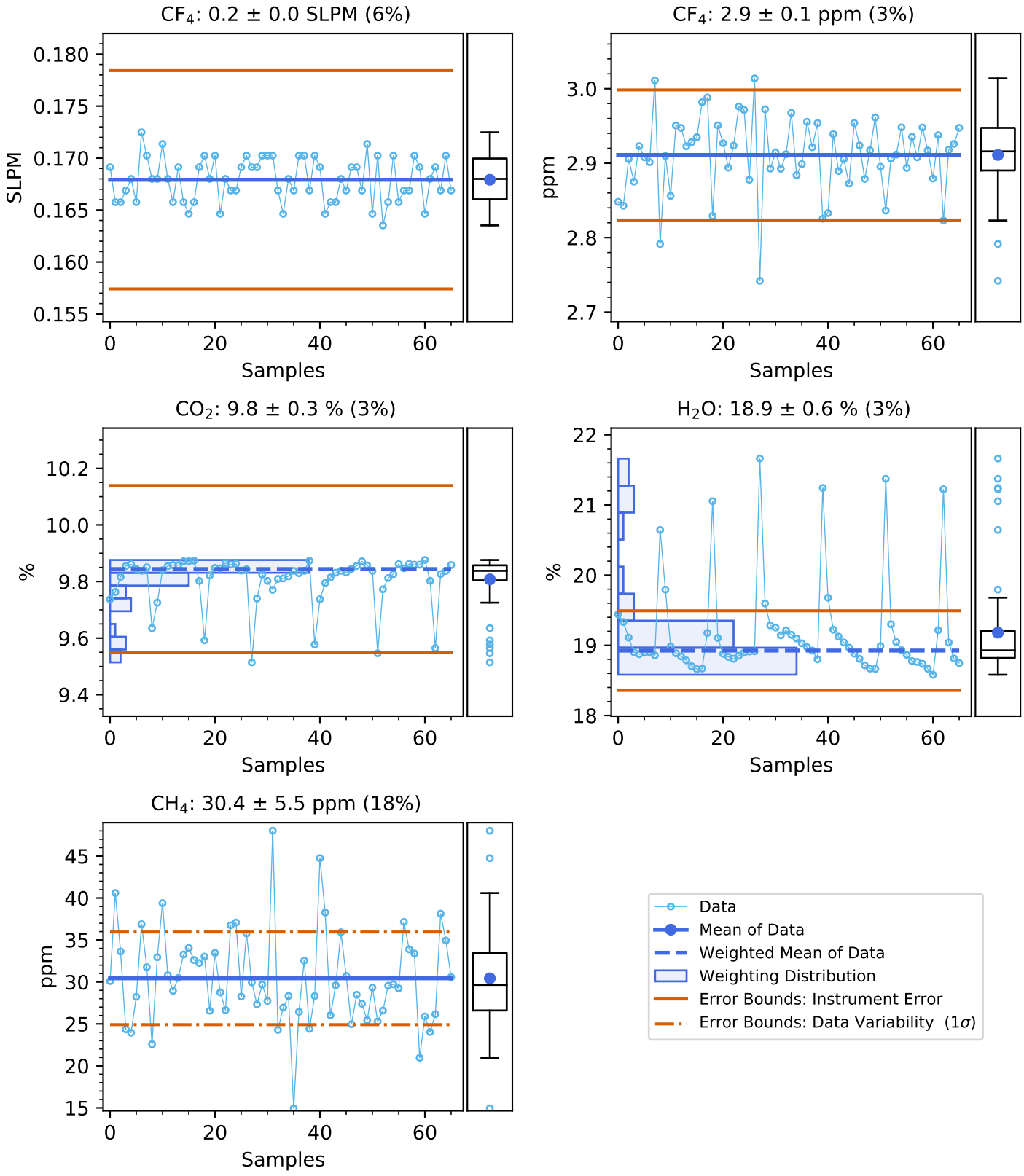
Facility: 1875 Unit: 1 Test: 2



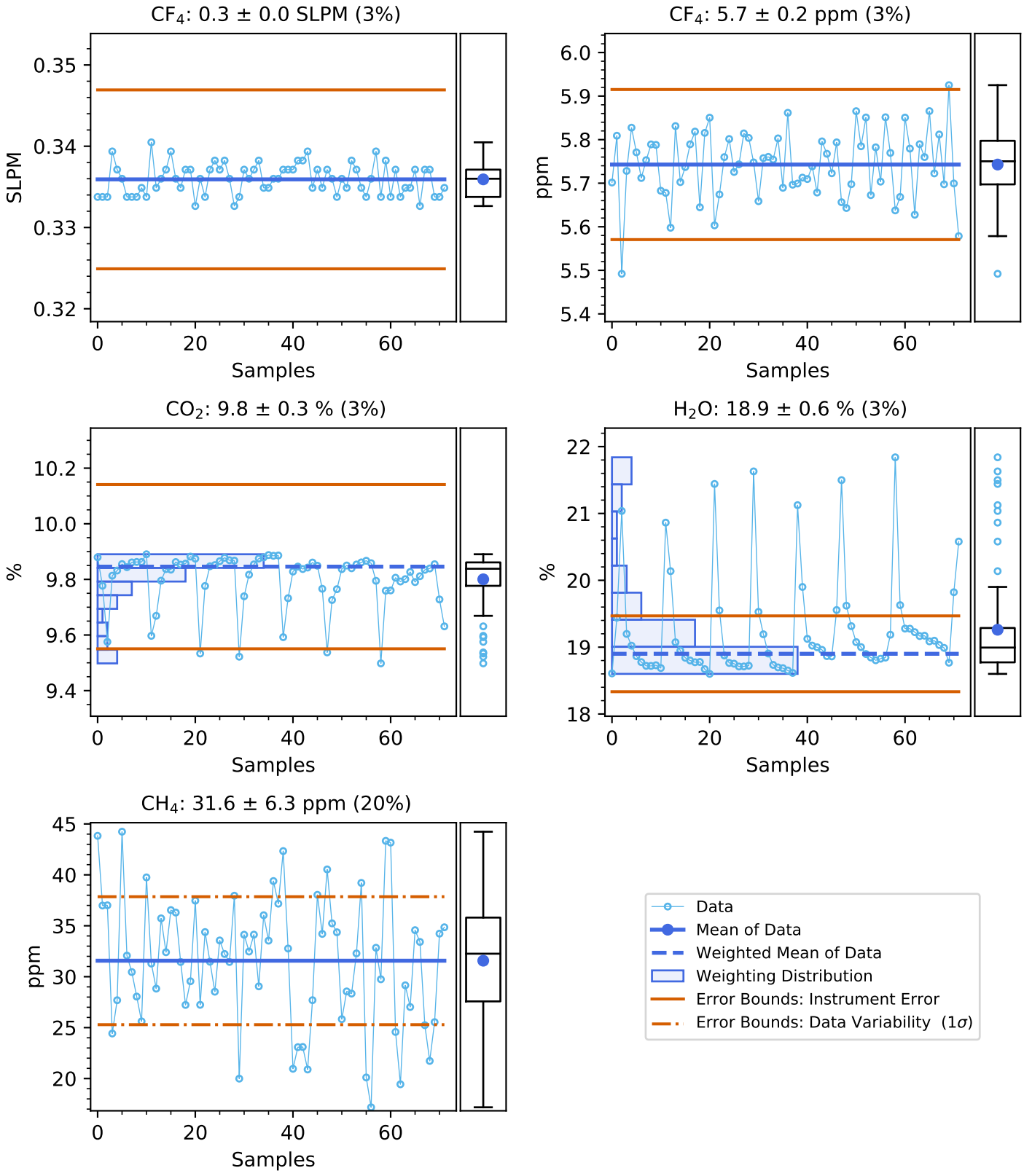
Facility: 1875 Unit: 1 Test: 3



Facility: 2973 Unit: 1 Test: 1



Facility: 2973 Unit: 1 Test: 2



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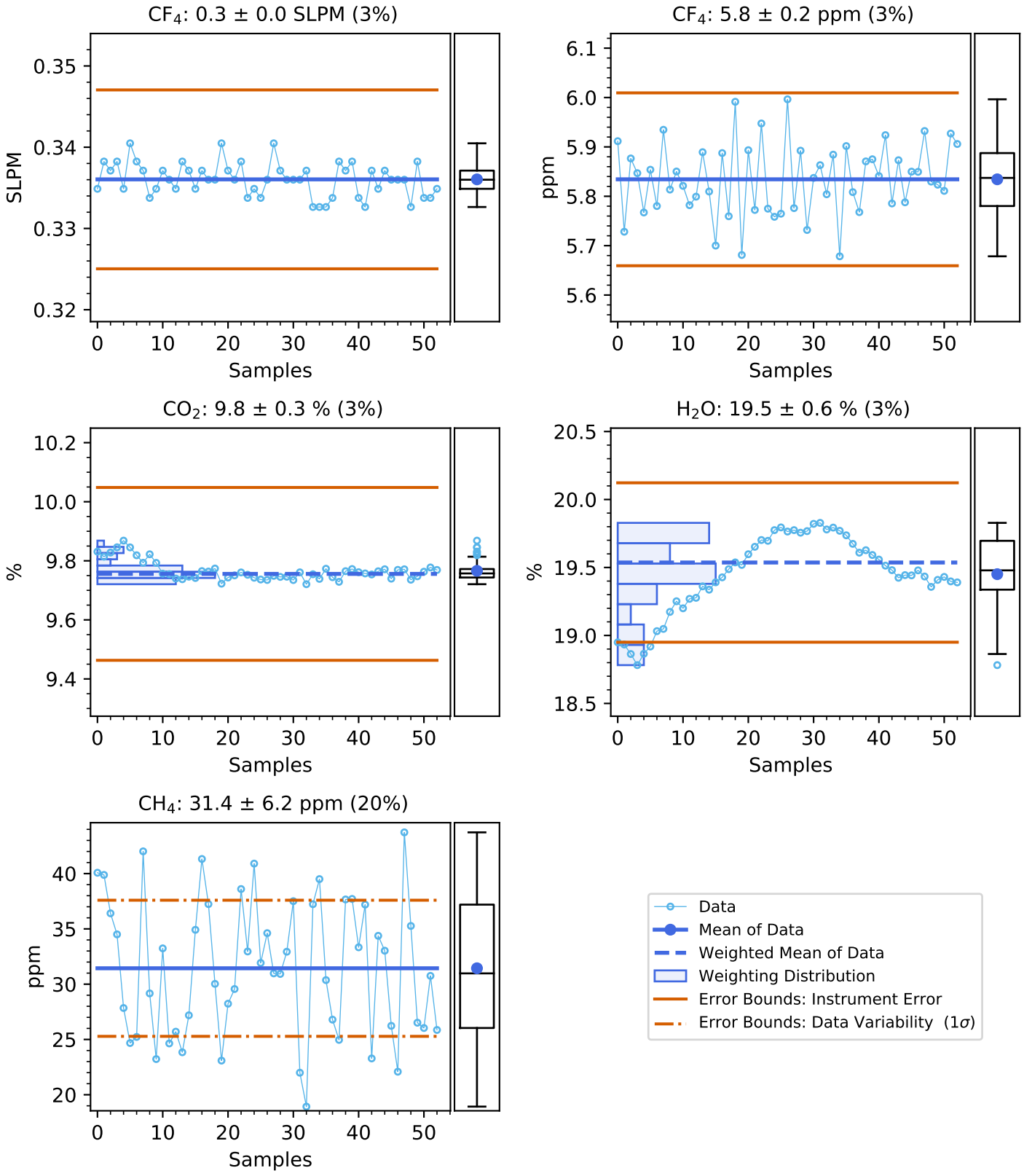
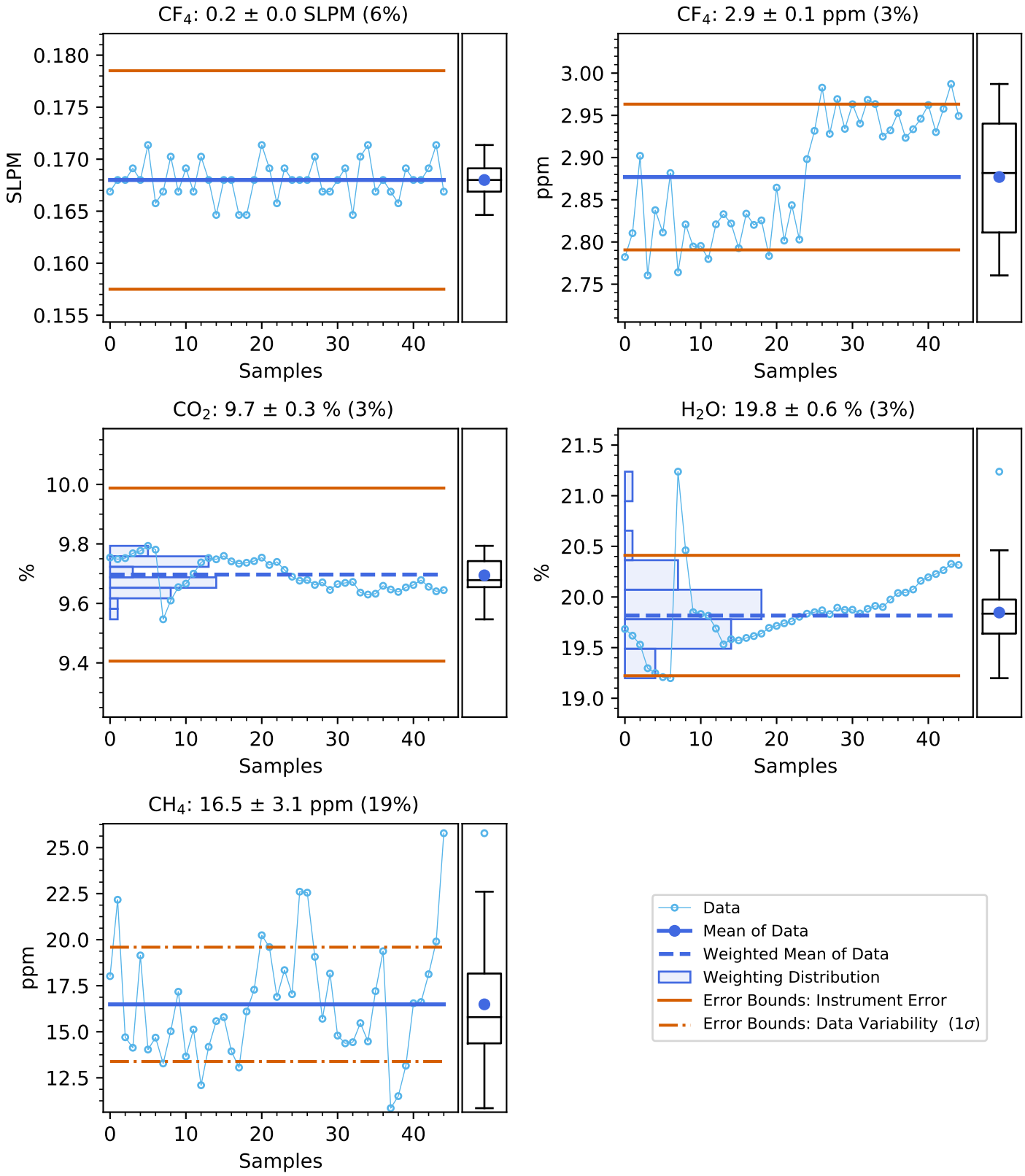
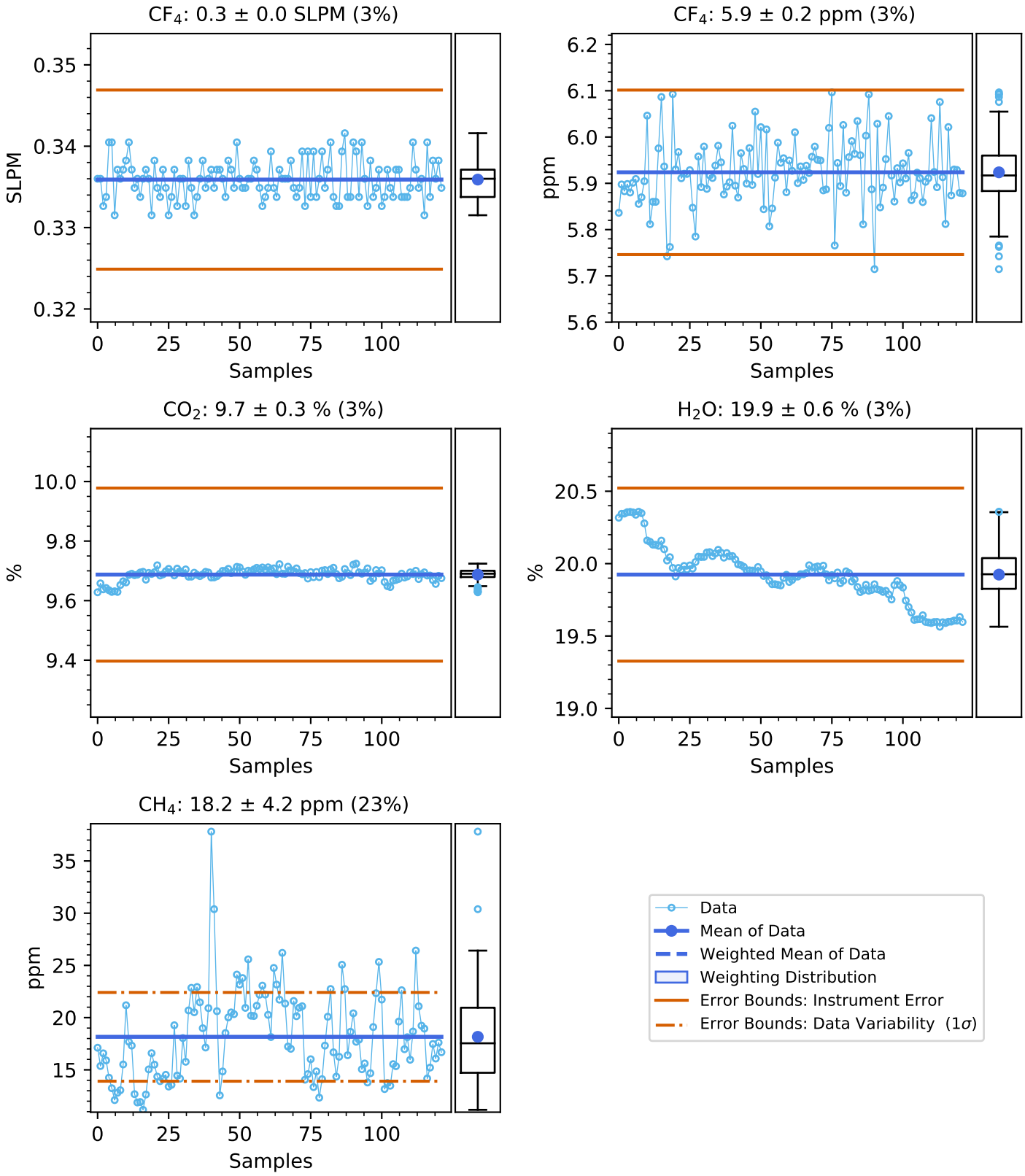


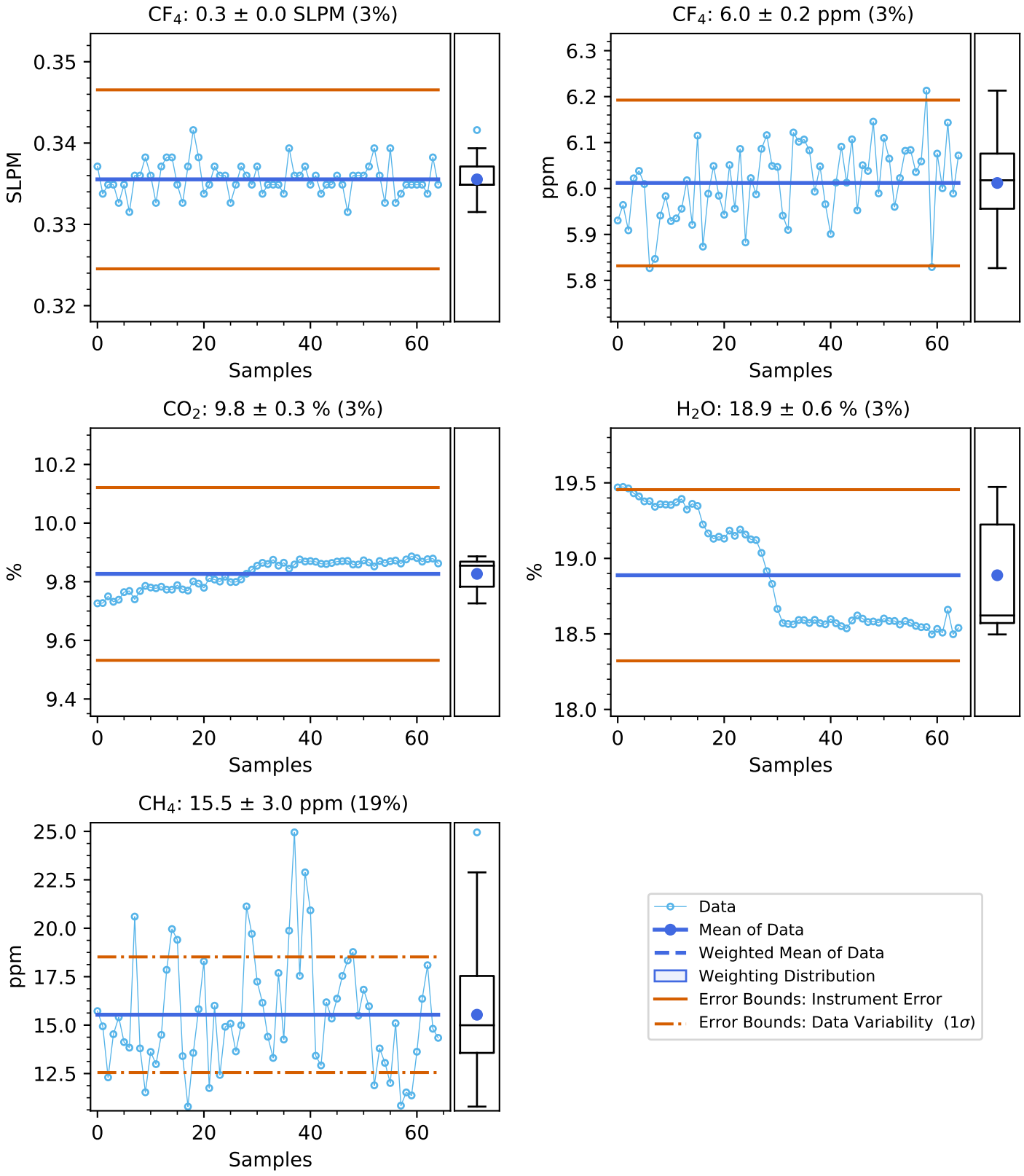
Facility: 2973 Unit: 2 Test: 1



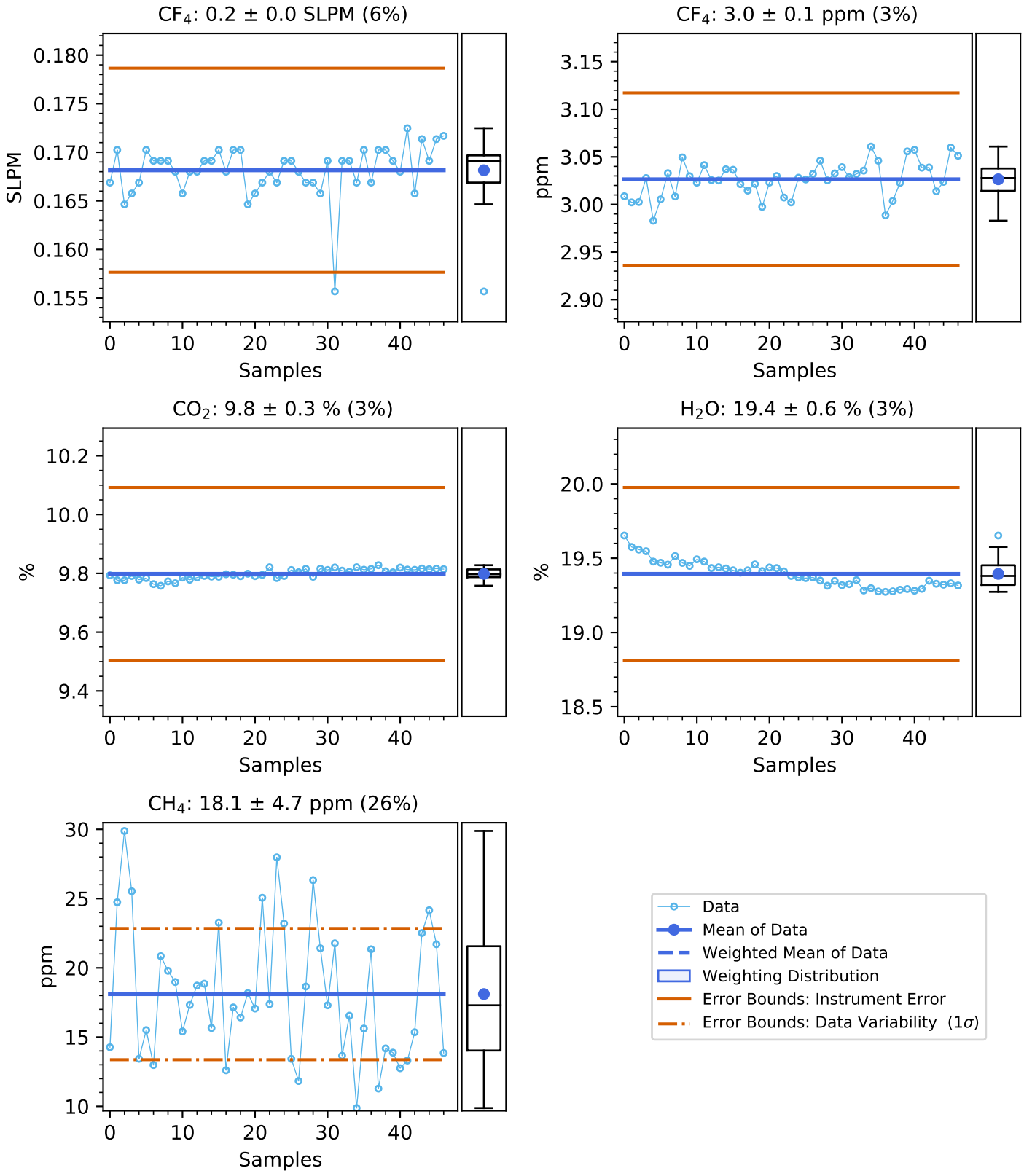
Facility: 2973 Unit: 2 Test: 2



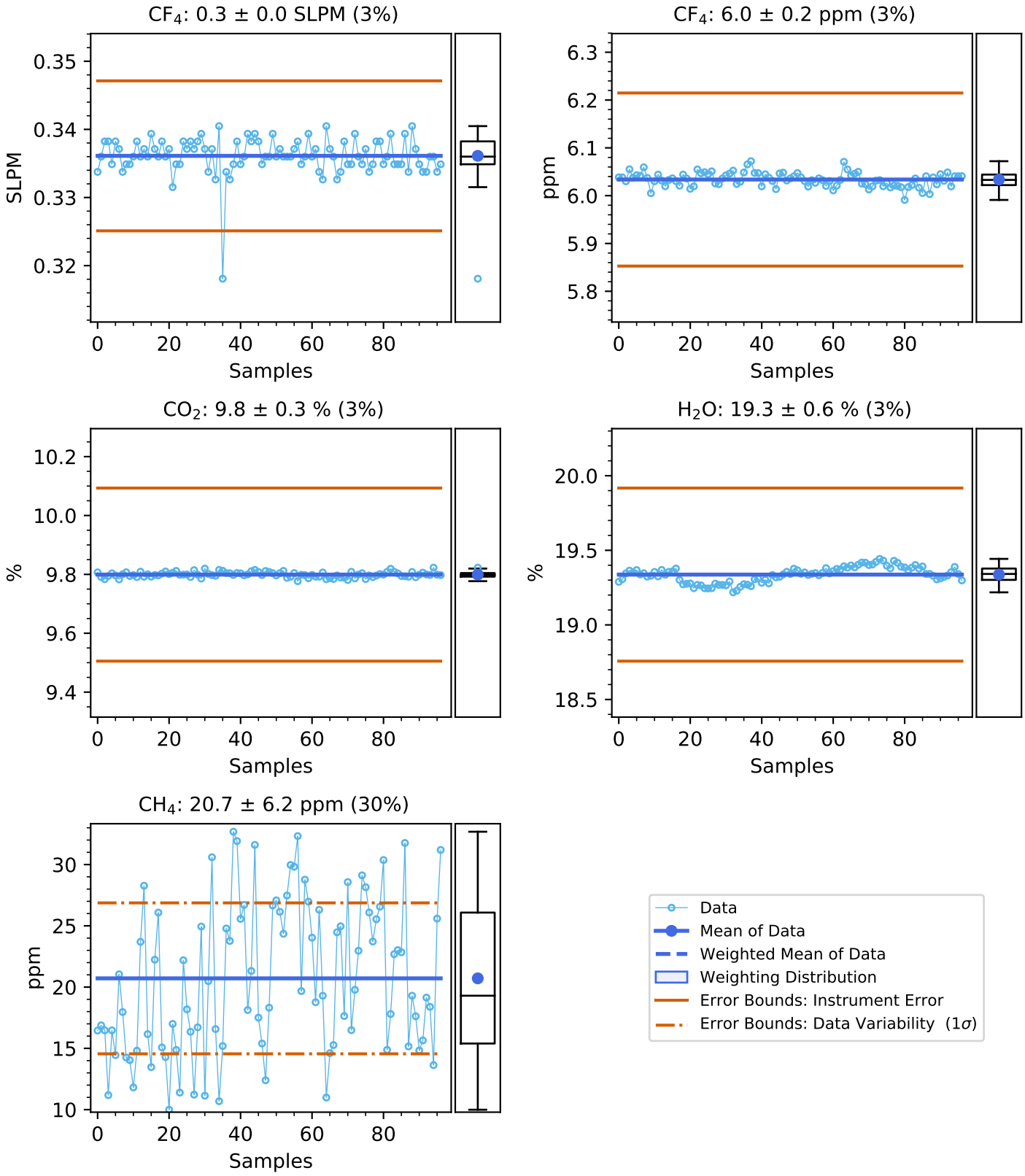
Facility: 2973 Unit: 2 Test: 3



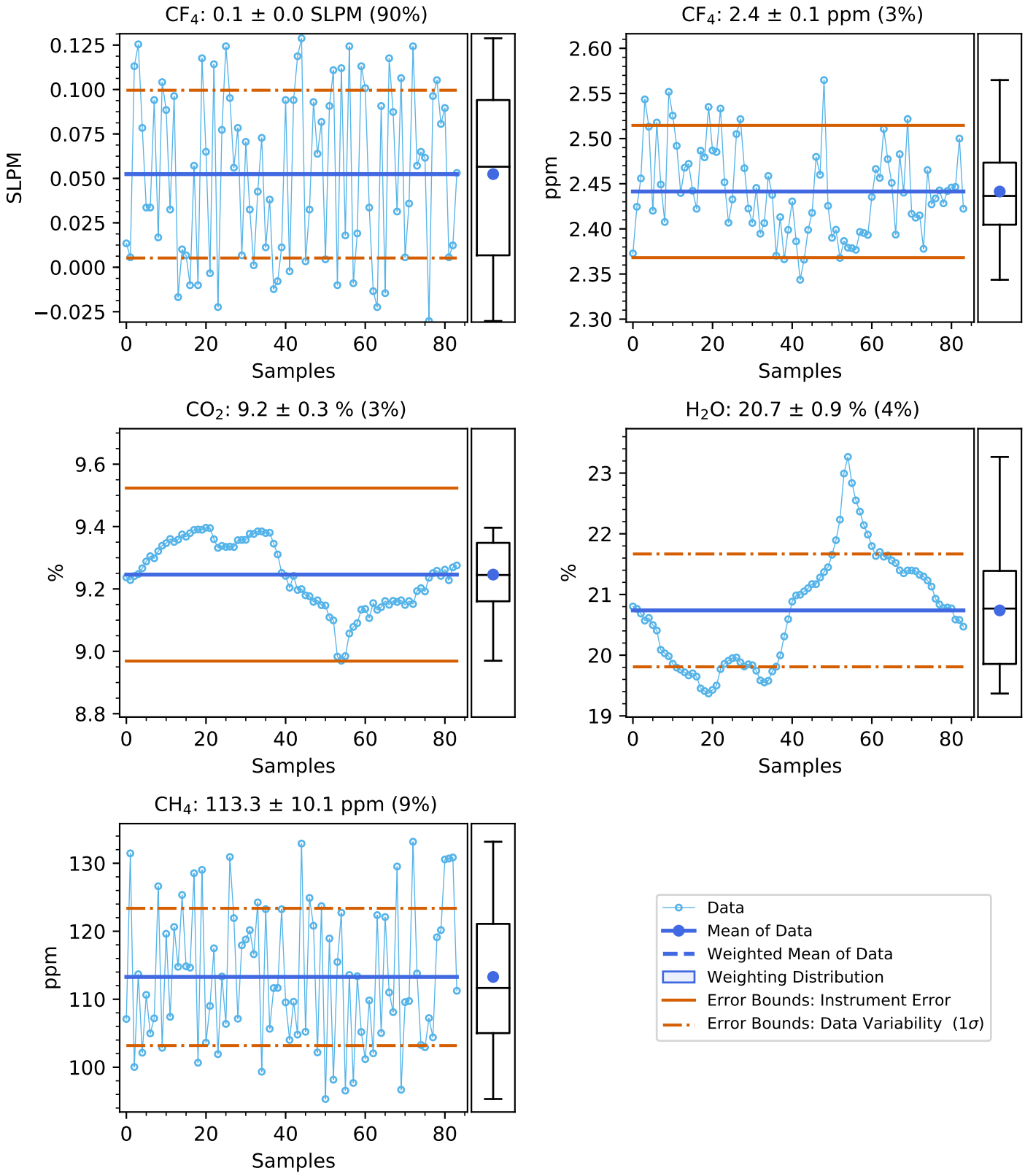
Facility: 2973 Unit: 3 Test: 1



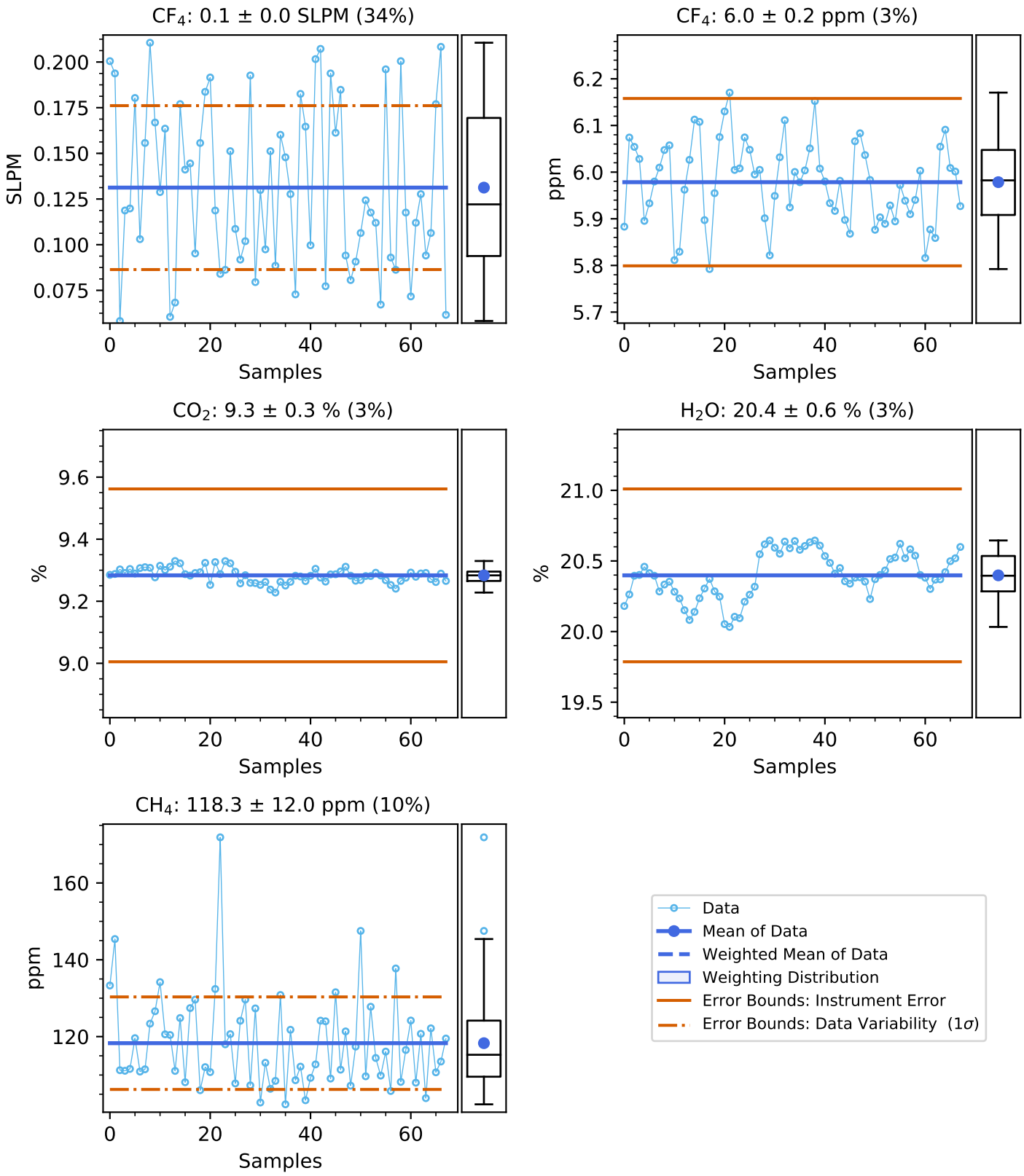
Facility: 2973 Unit: 3 Test: 2



Facility: 1834 Unit: 1 Test: 1



Facility: 1834 Unit: 1 Test: 2



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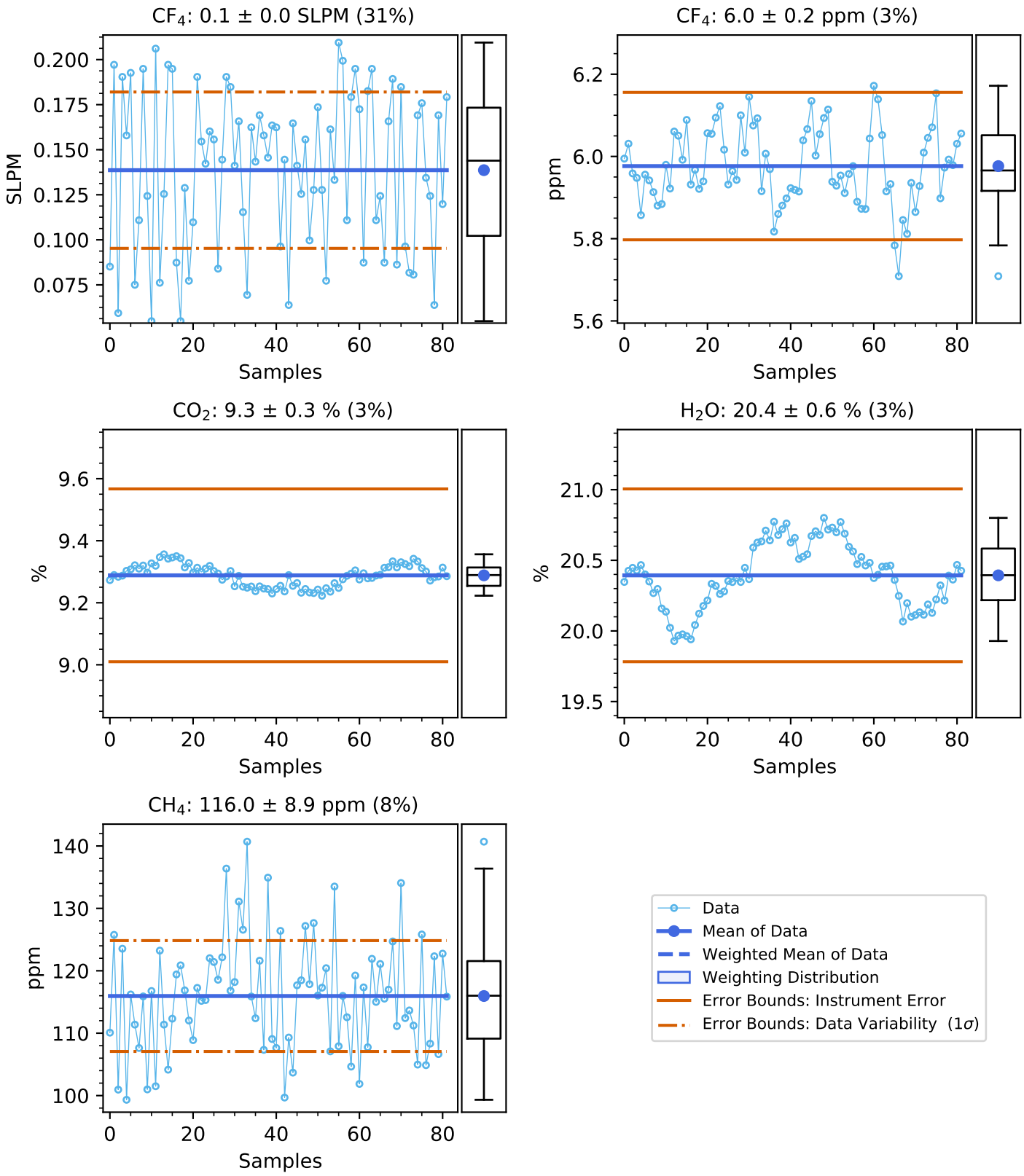
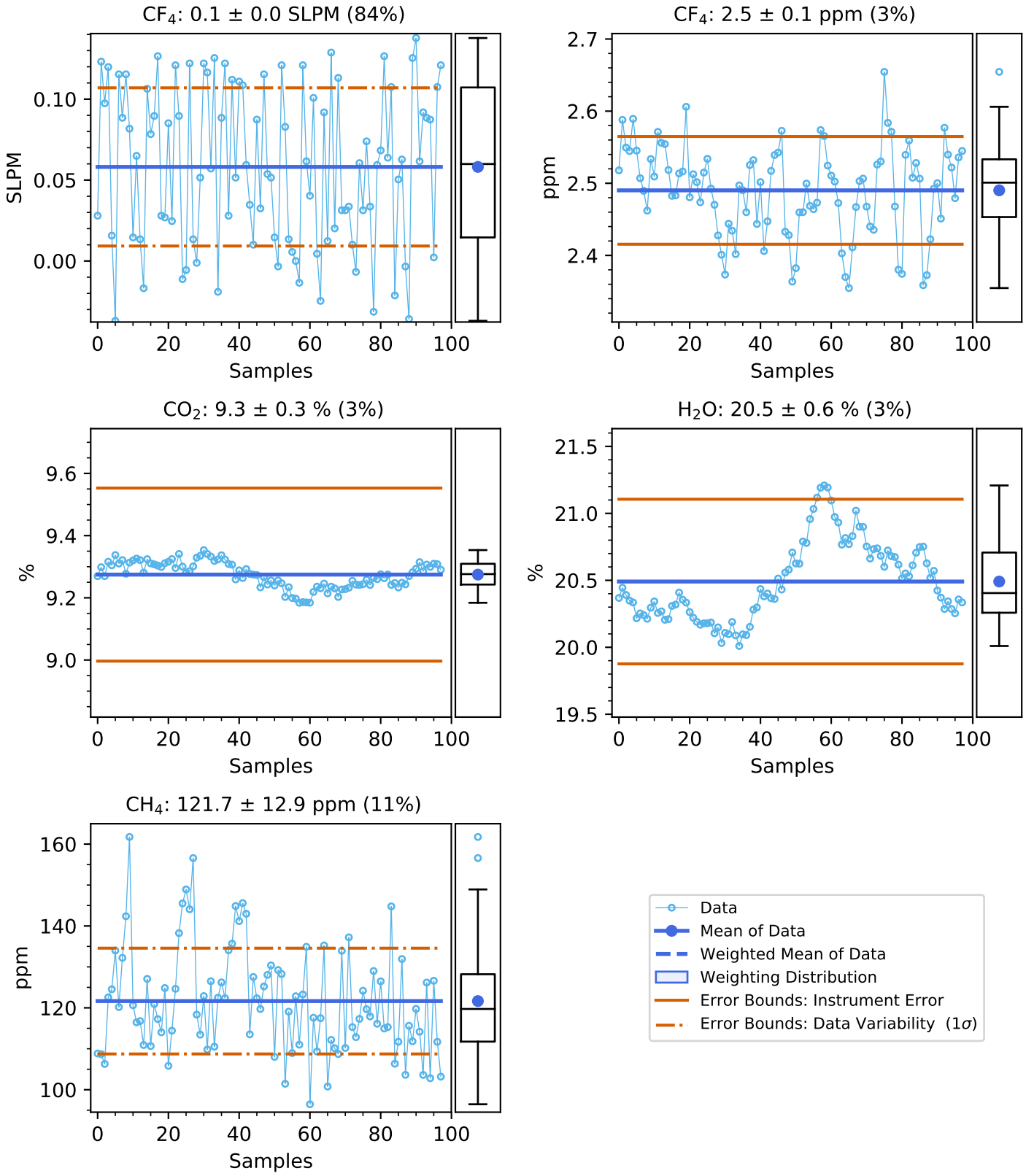
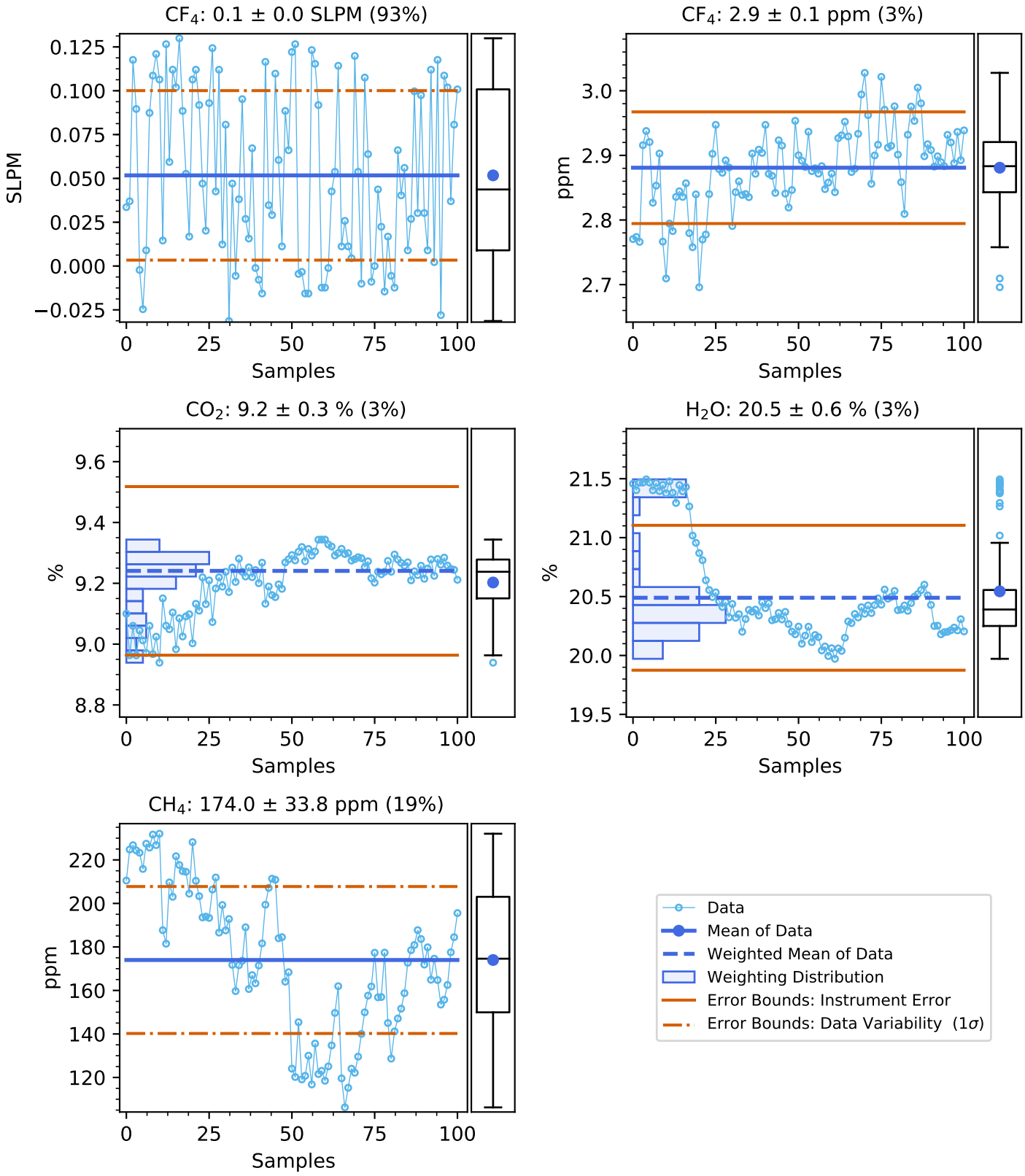


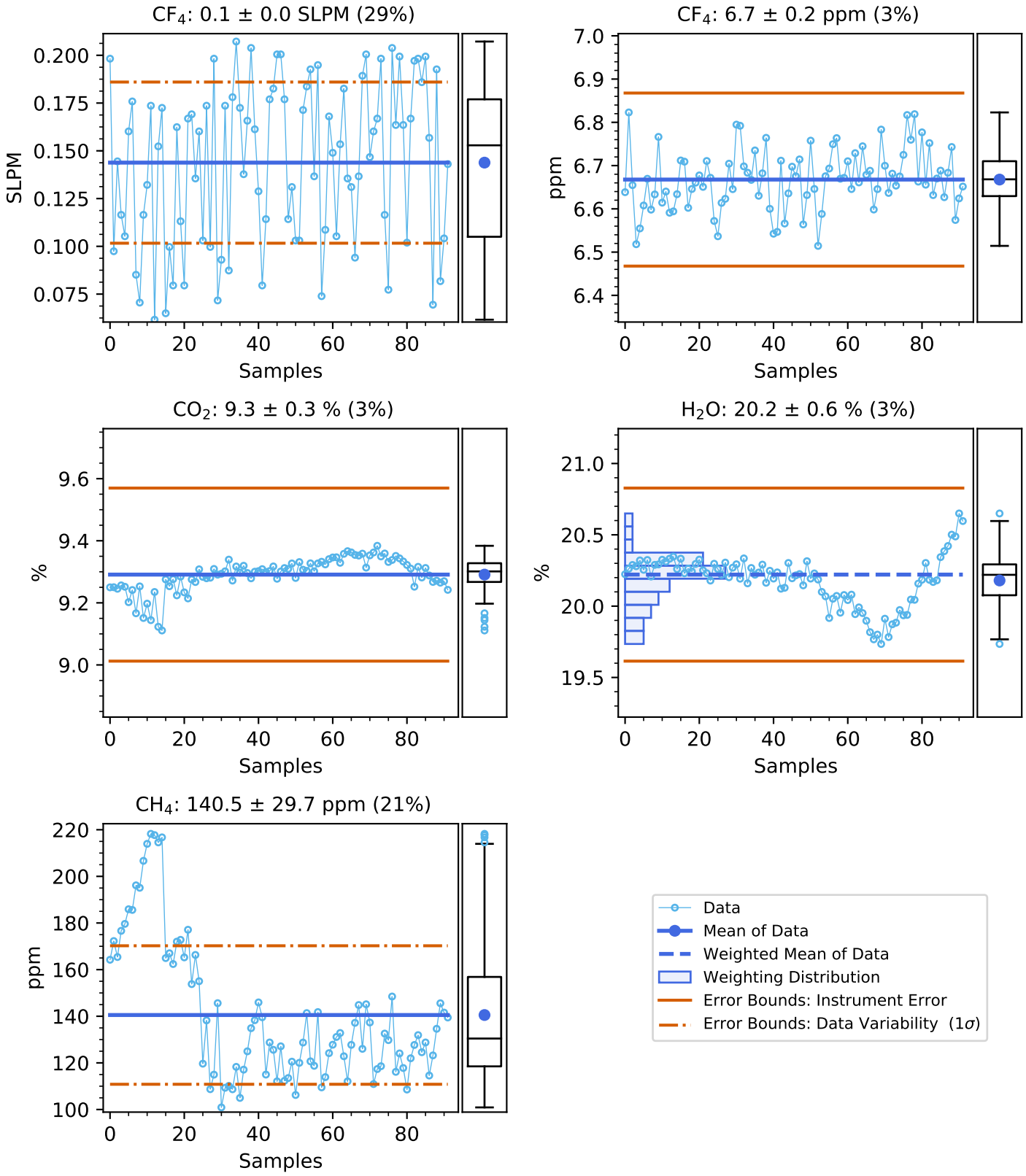
Facility: 1834 Unit: 1 Test: 4



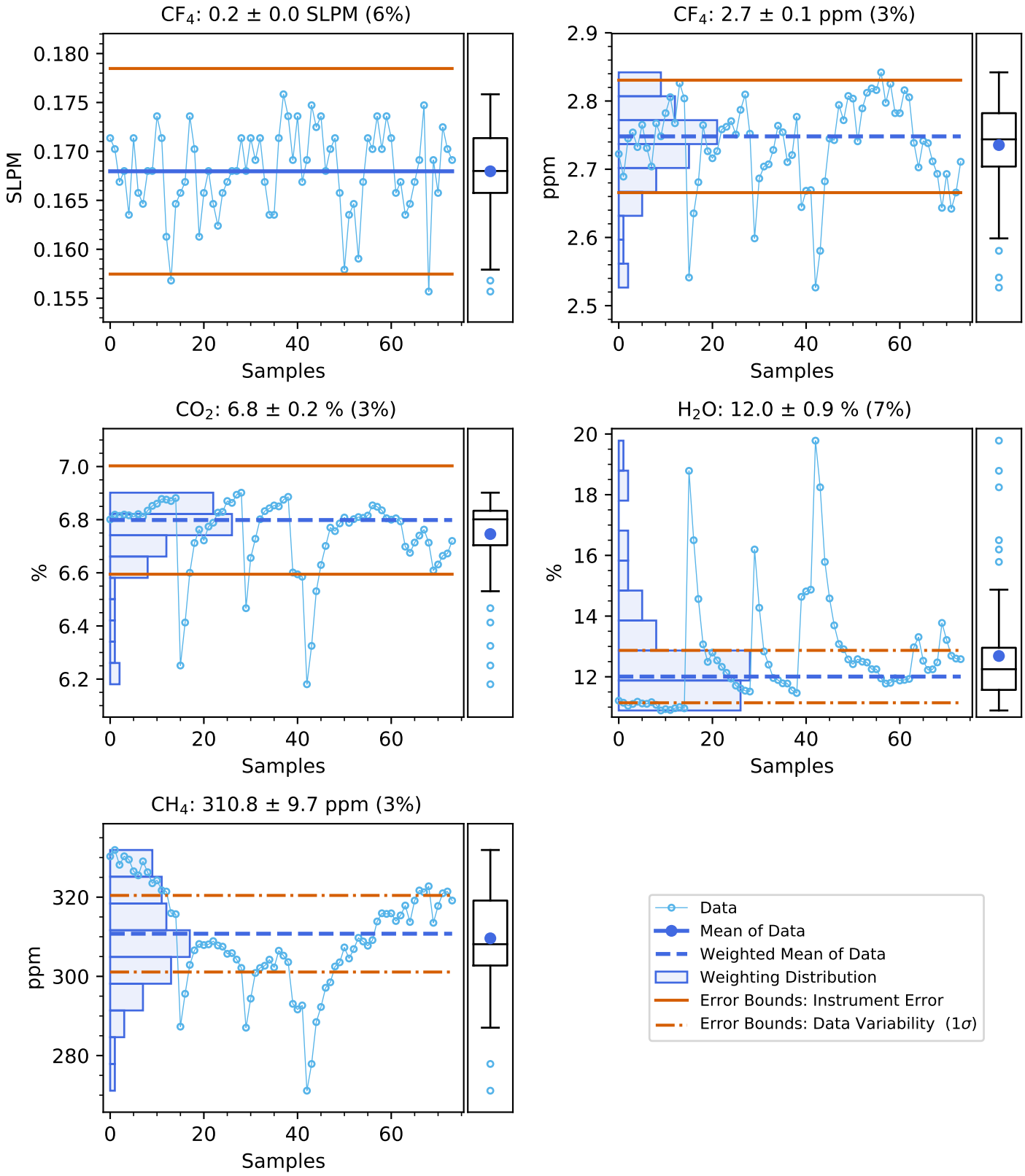
Facility: 1834 Unit: 1 Test: 5



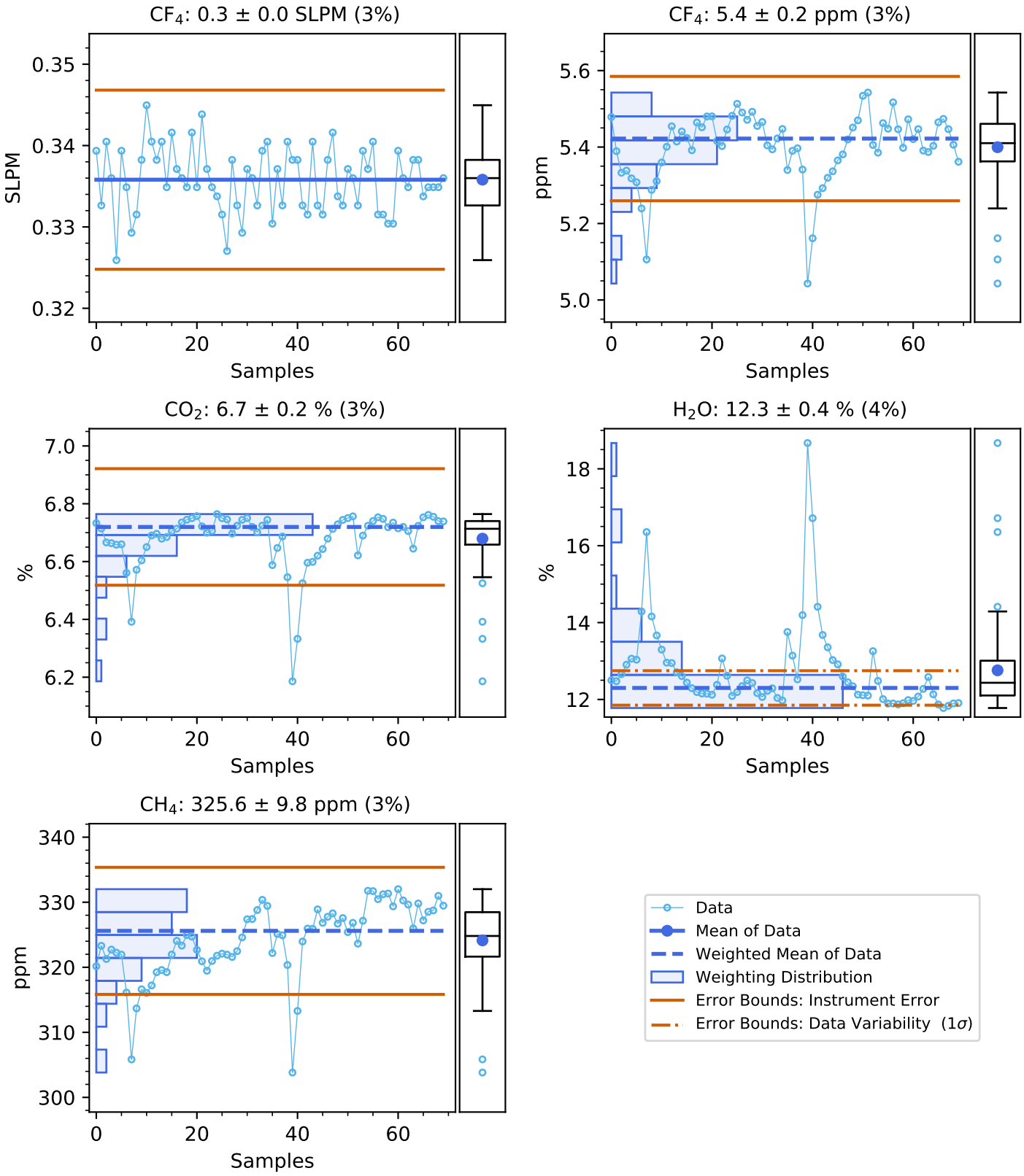
Facility: 1834 Unit: 1 Test: 6



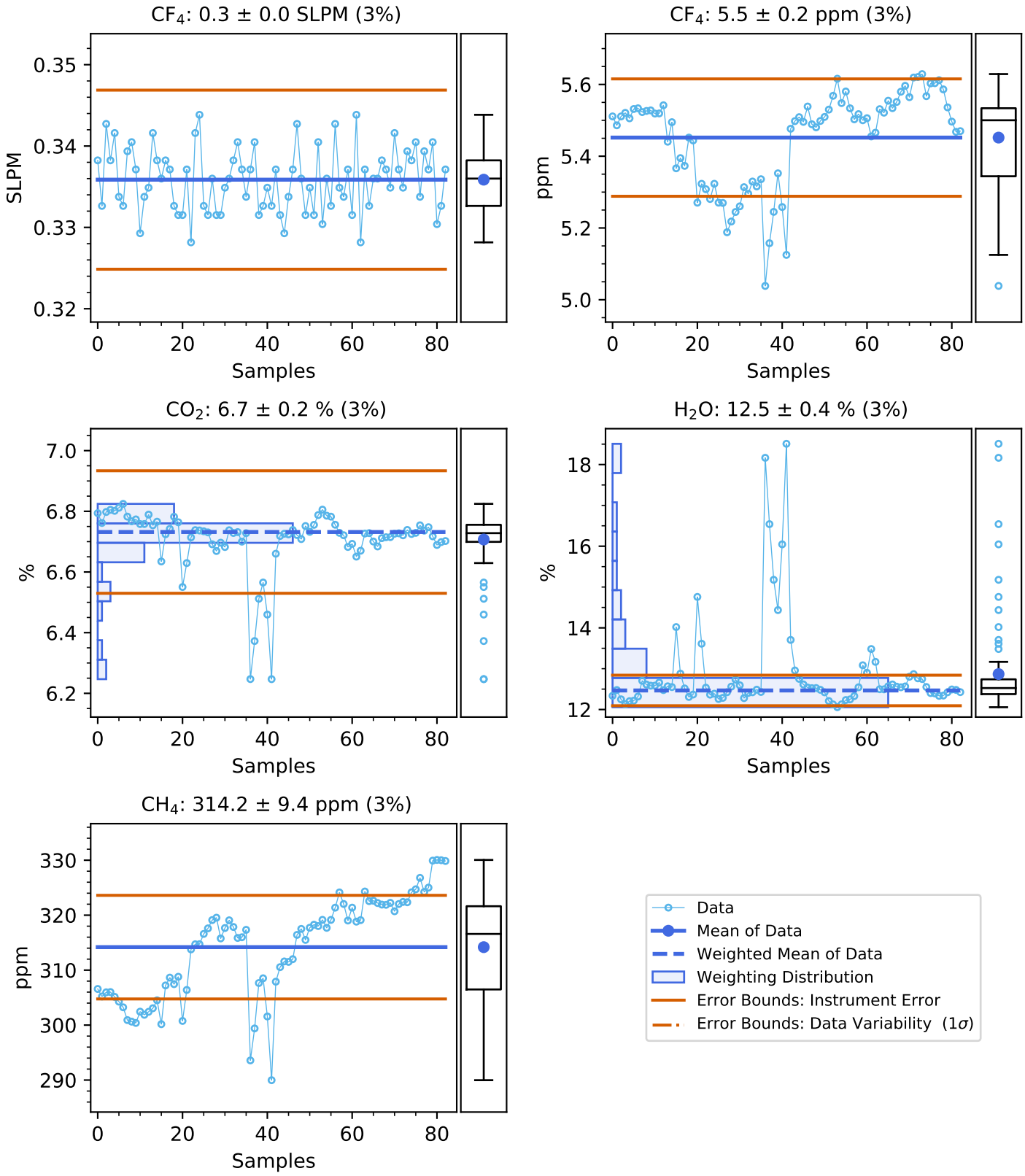
Facility: 1610 Unit: 1 Test: 1



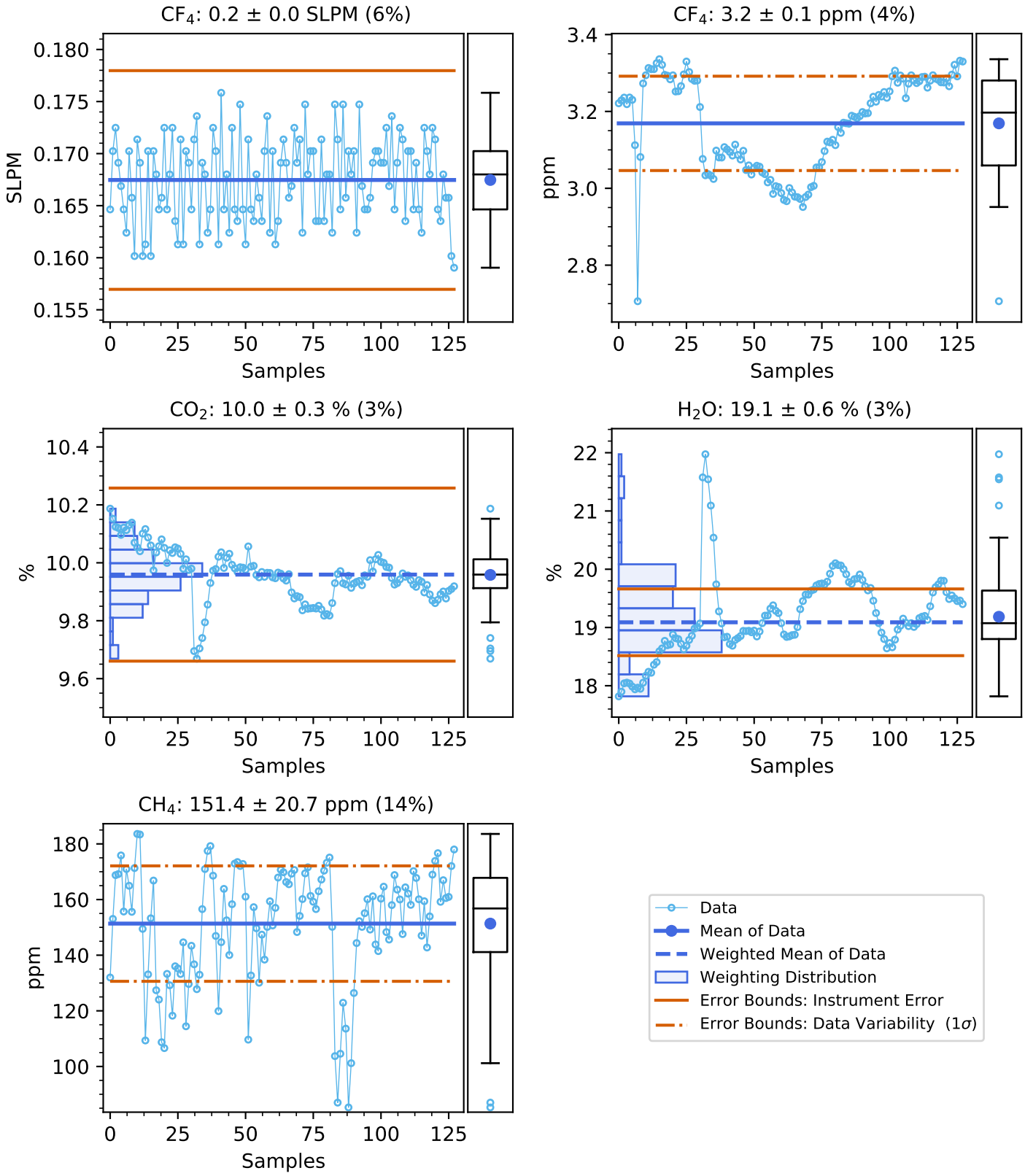
Facility: 1610 Unit: 1 Test: 2



Facility: 1610 Unit: 1 Test: 3



Facility: 1660 Unit: 1 Test: 1



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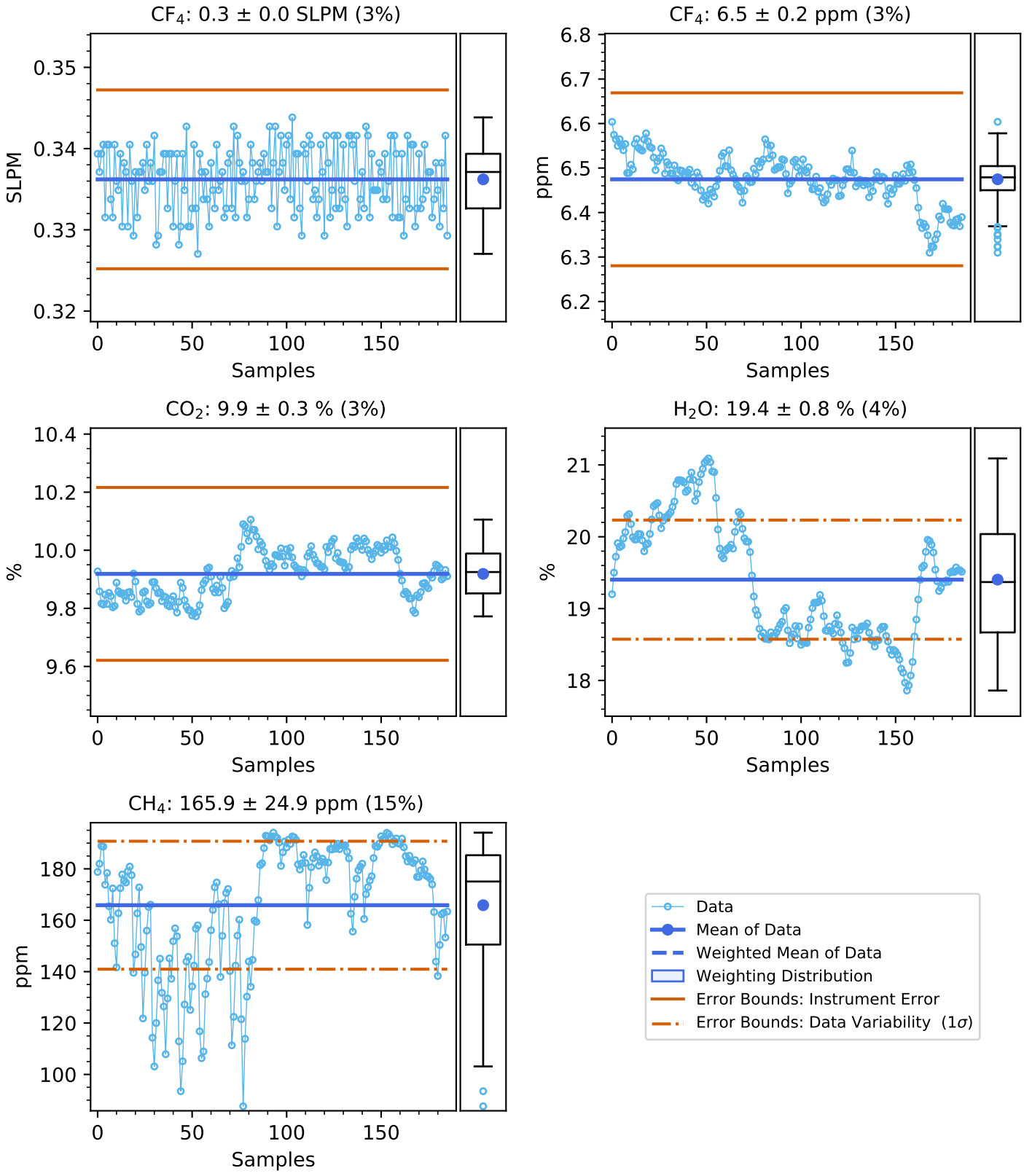

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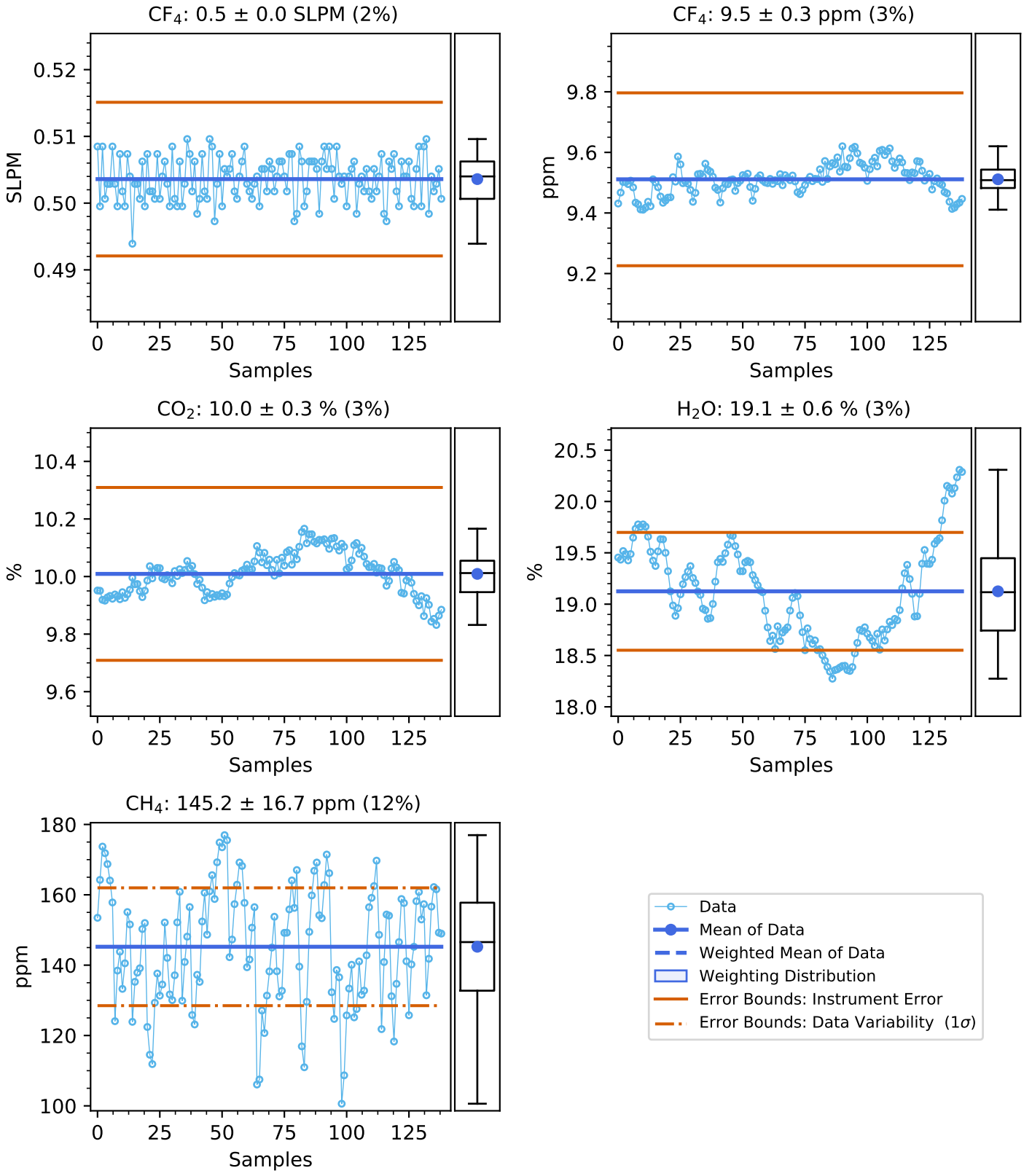
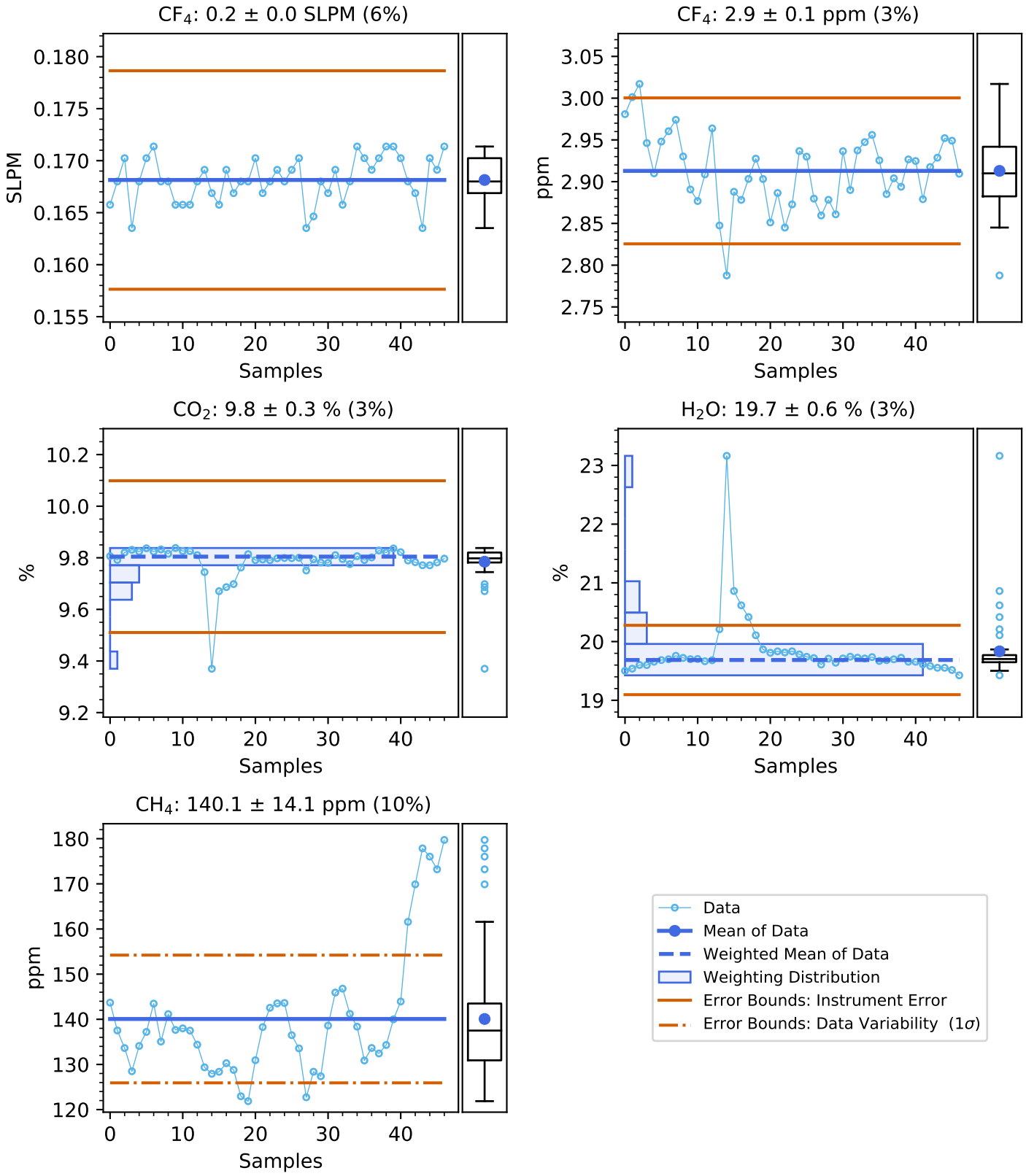


Facility: 691 Unit: 1 Test: 1



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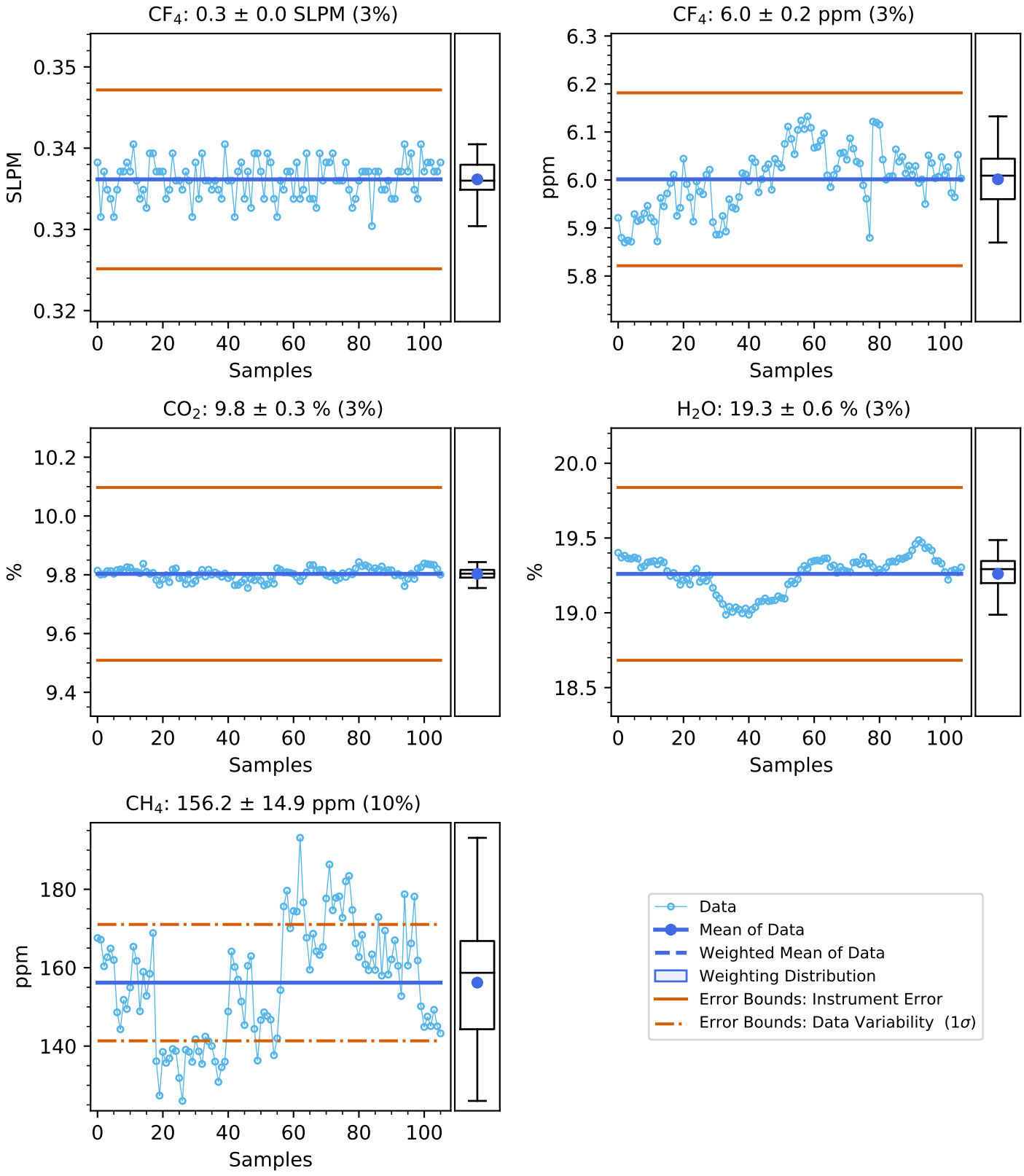

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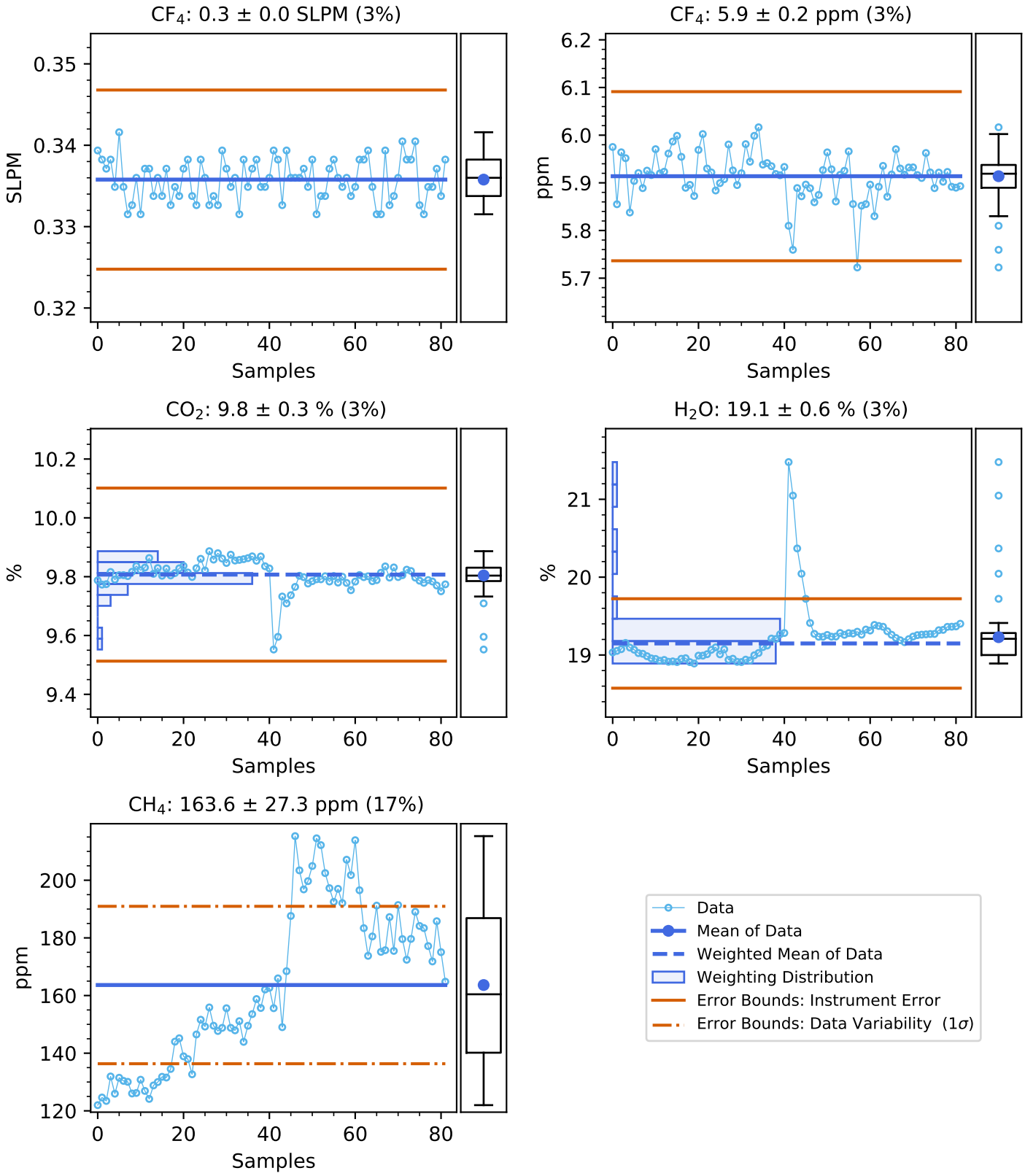
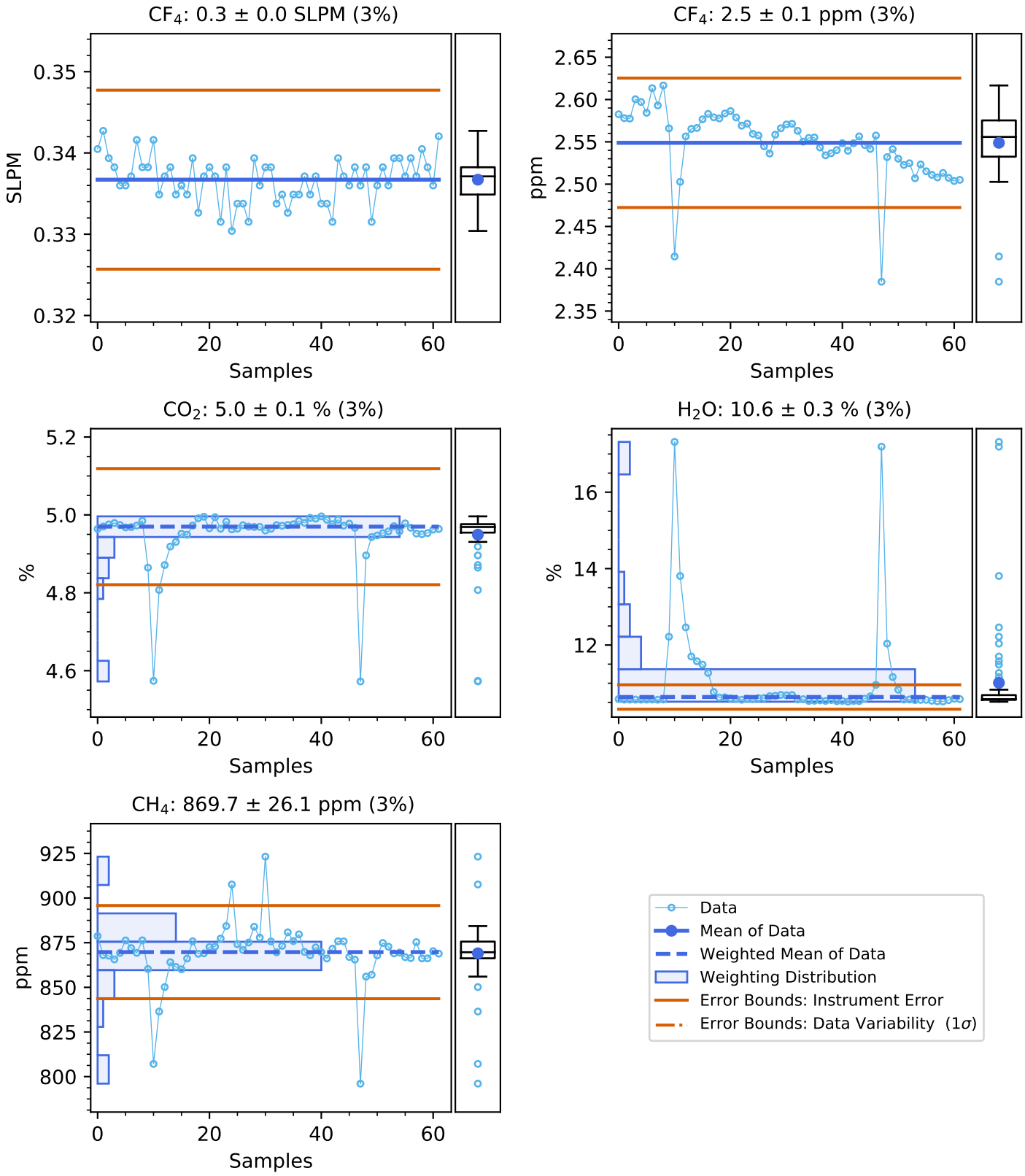
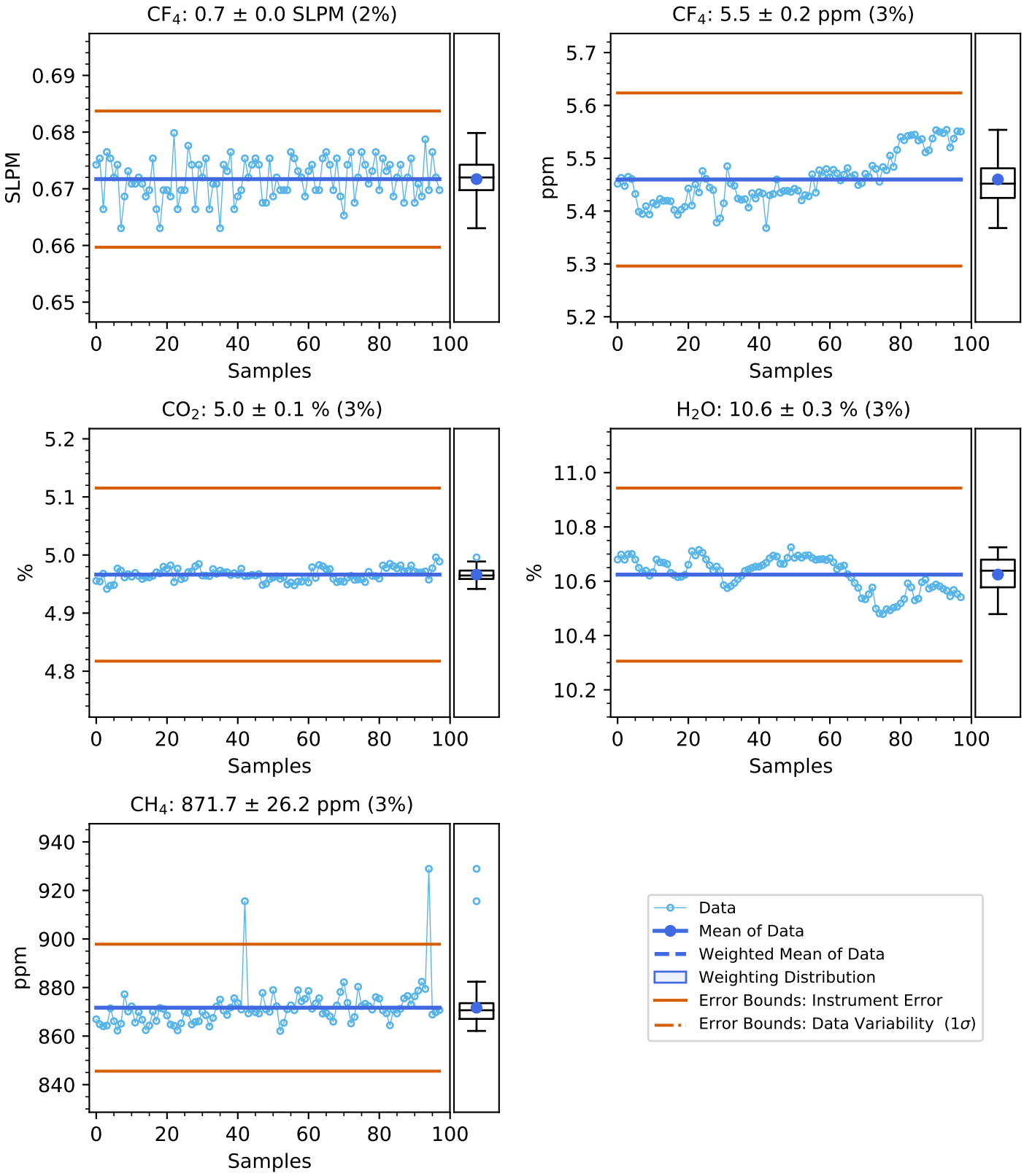


Facility: 691 Unit: 2 Test: 1



Facility: 691 Unit: 2 Test: 2



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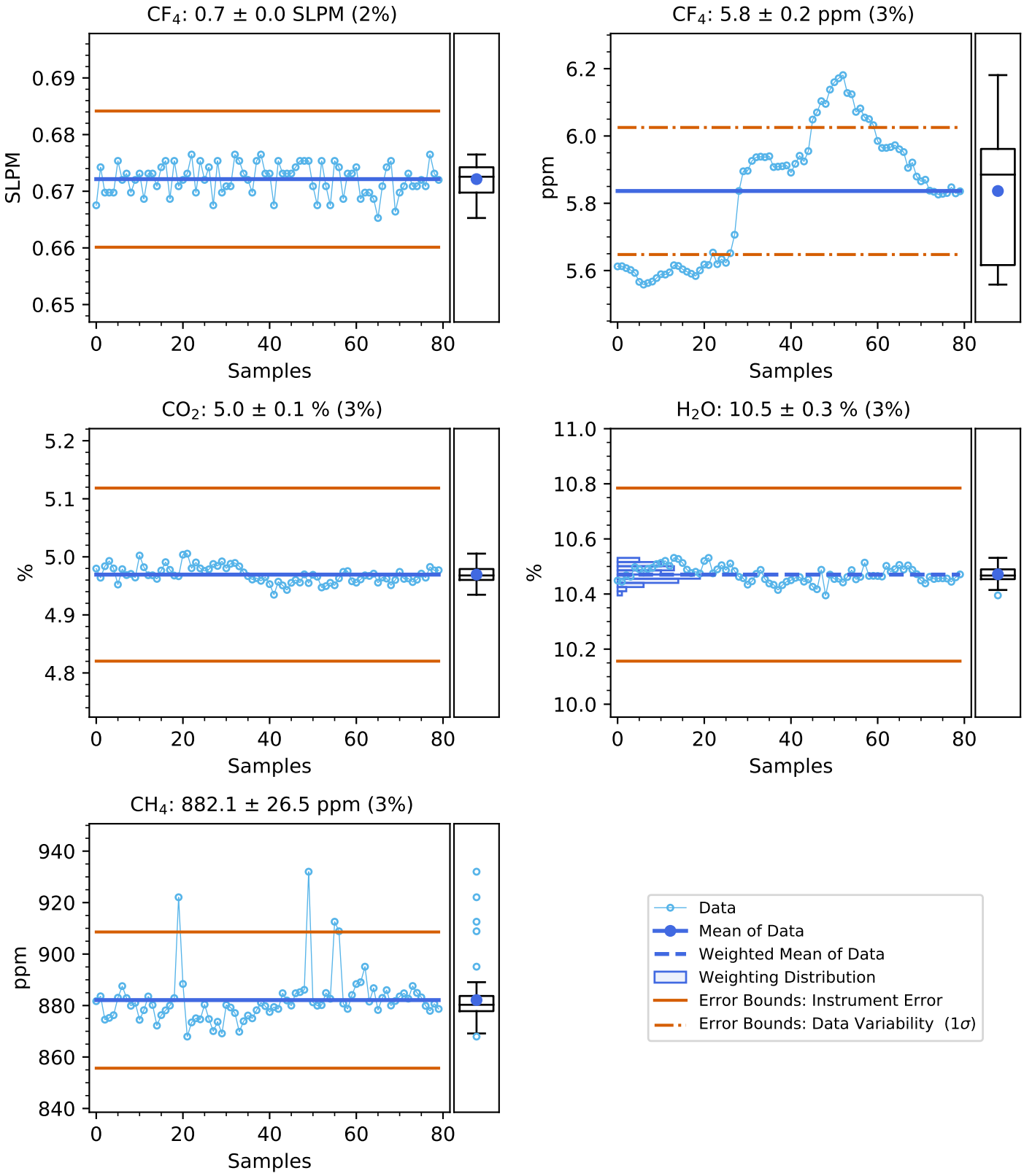
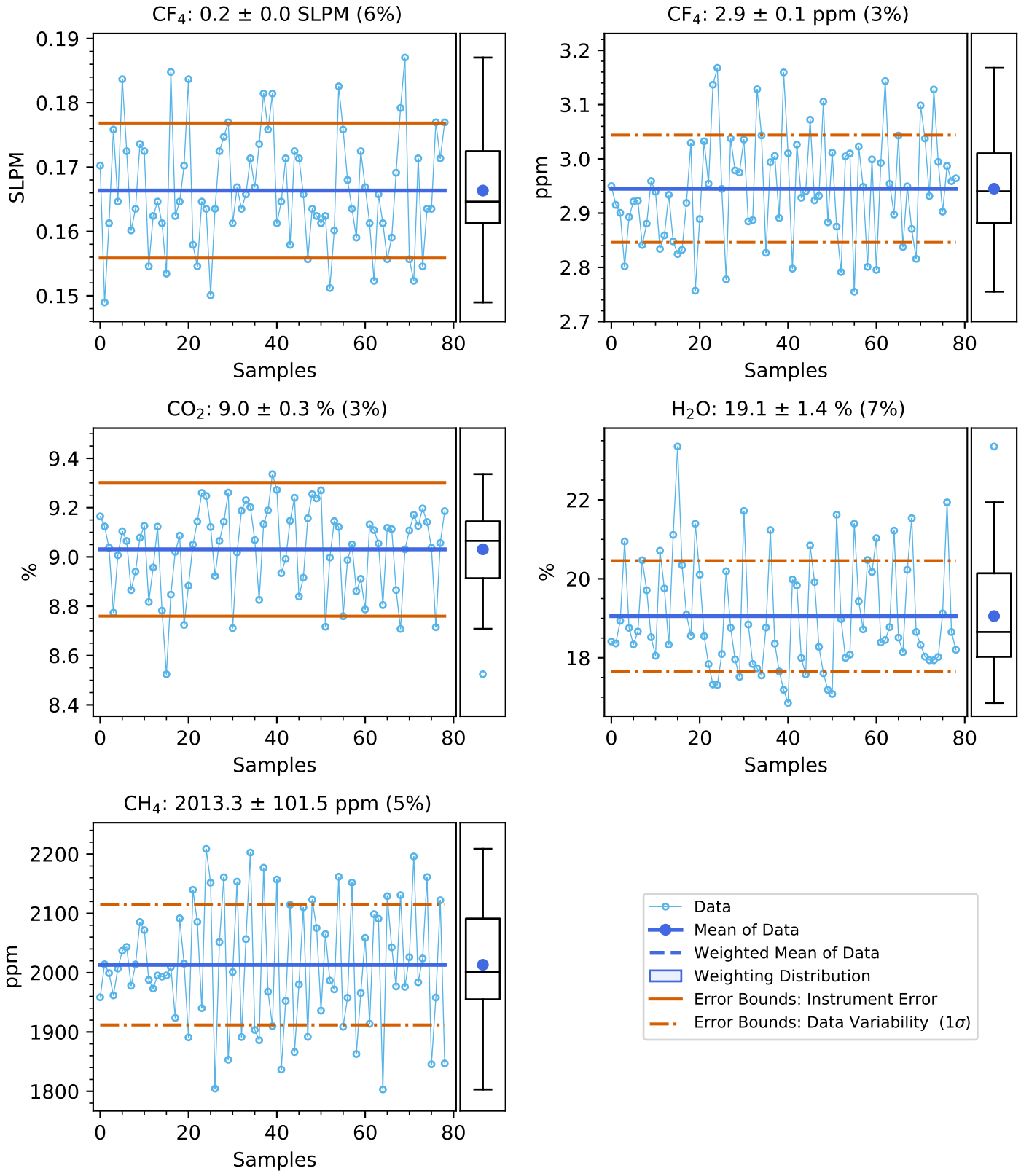


Facility: 691 Unit: 3 Test: 1



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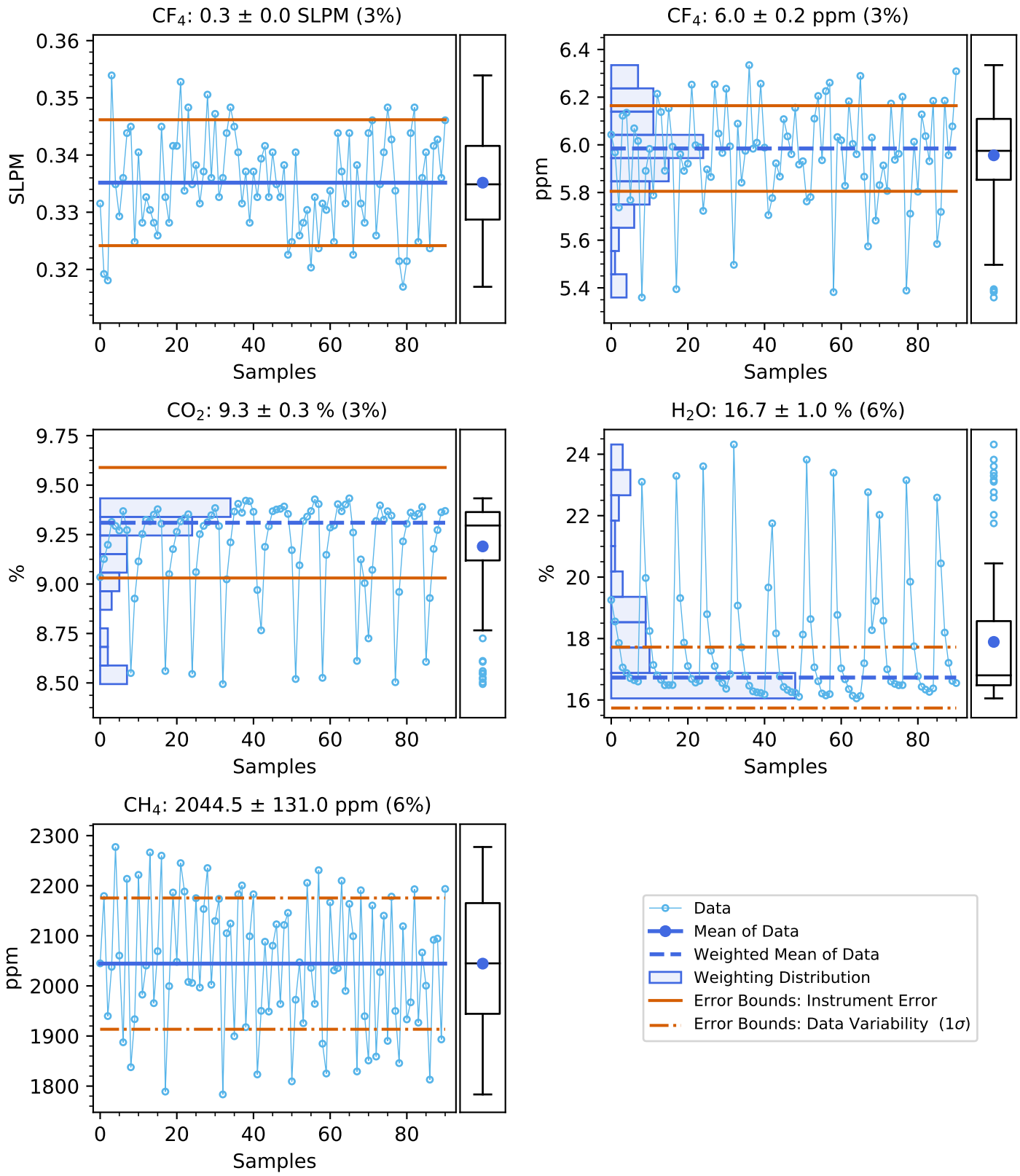
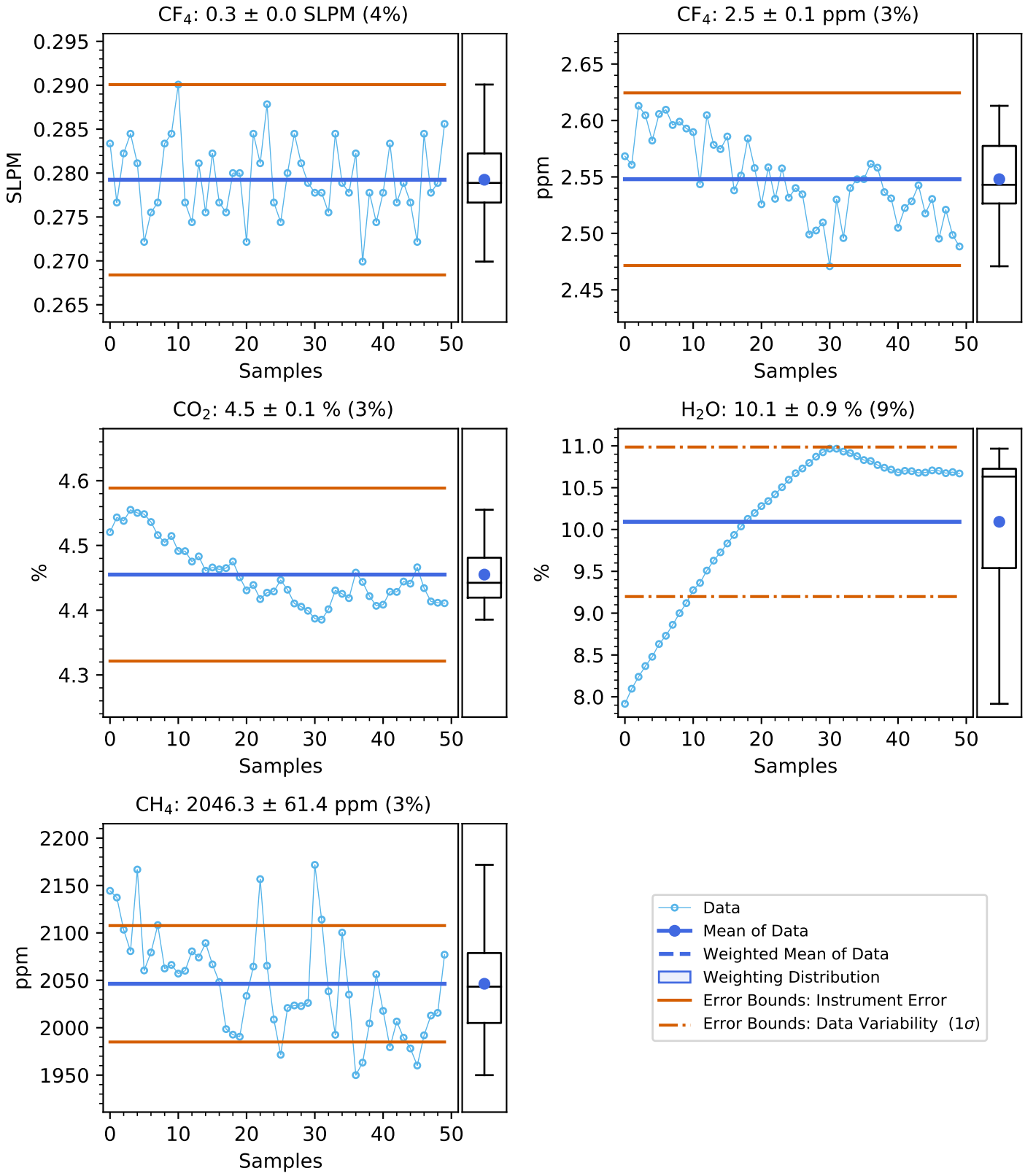
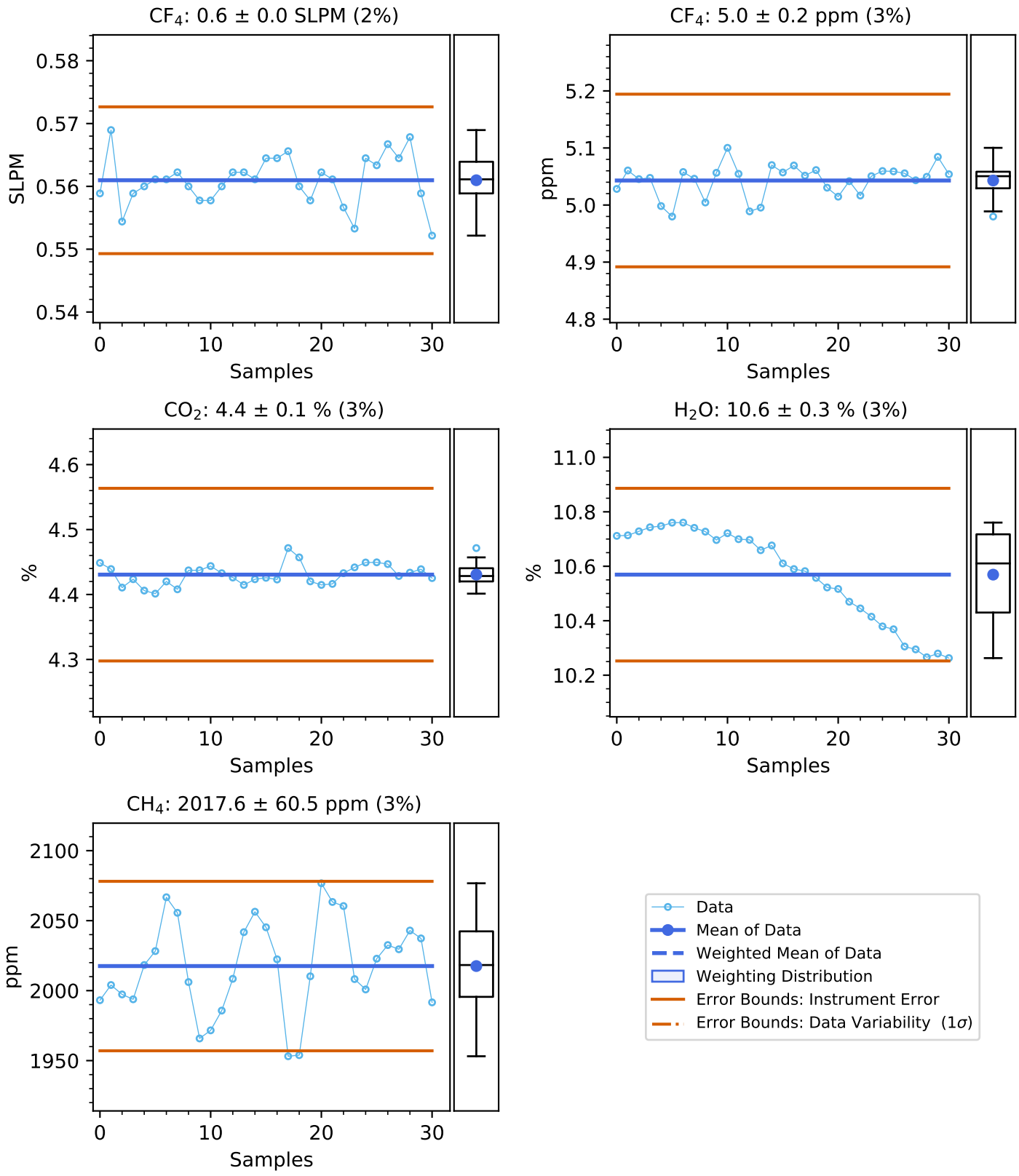


Facility: 2186 Unit: 1 Test: 1



Facility: 2186 Unit: 1 Test: 2



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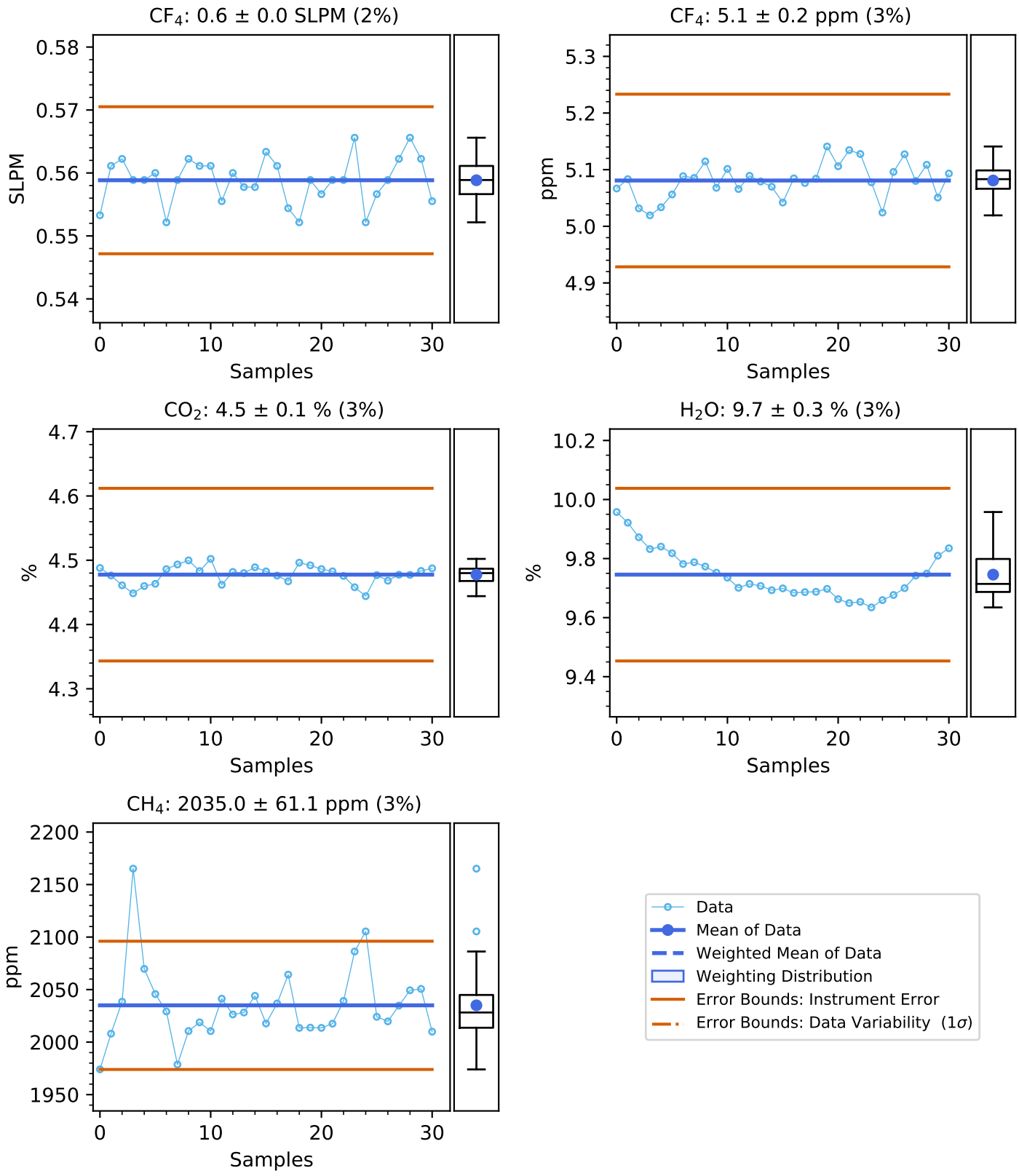
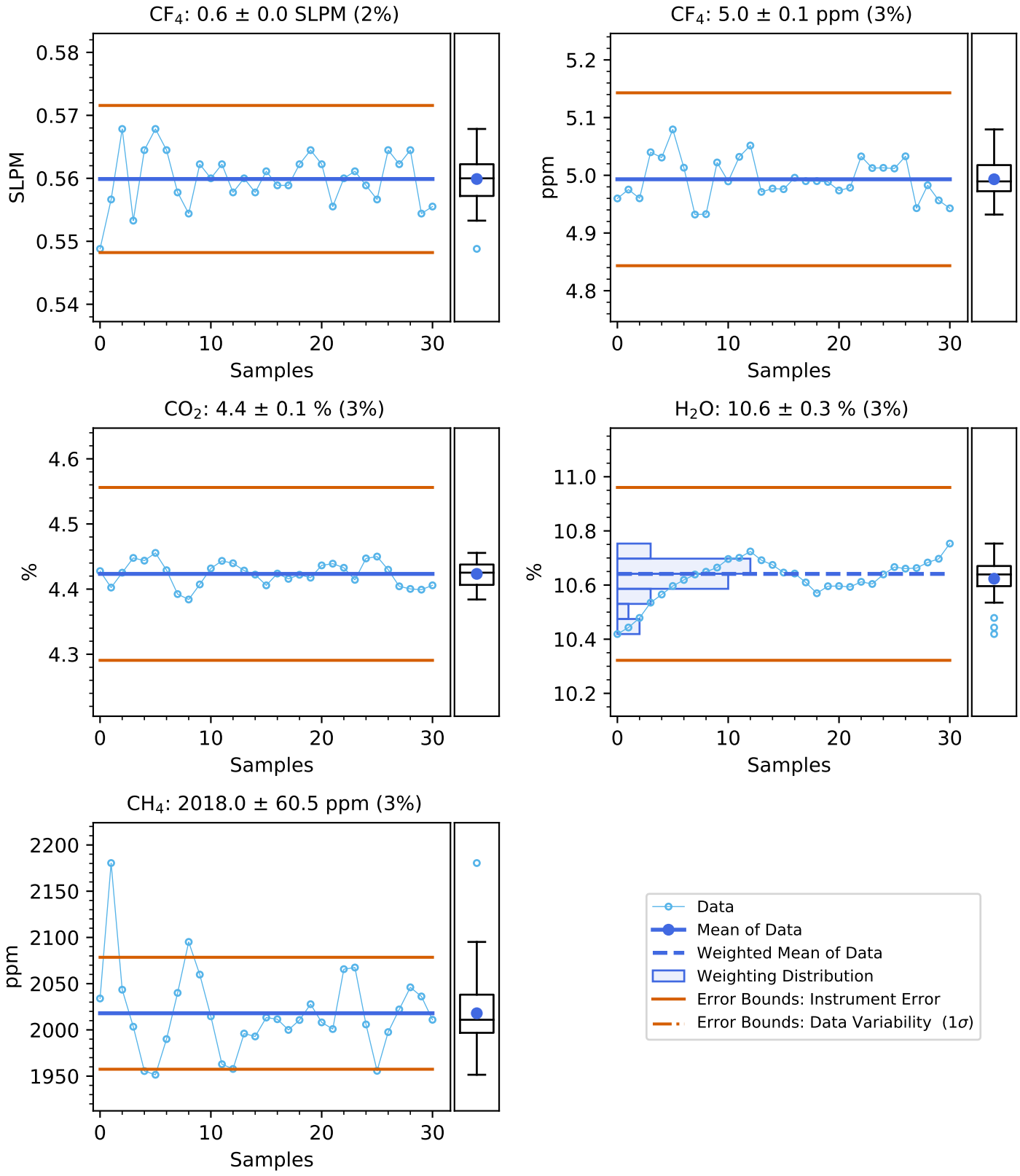


Facility: 2186 Unit: 1 Test: 4



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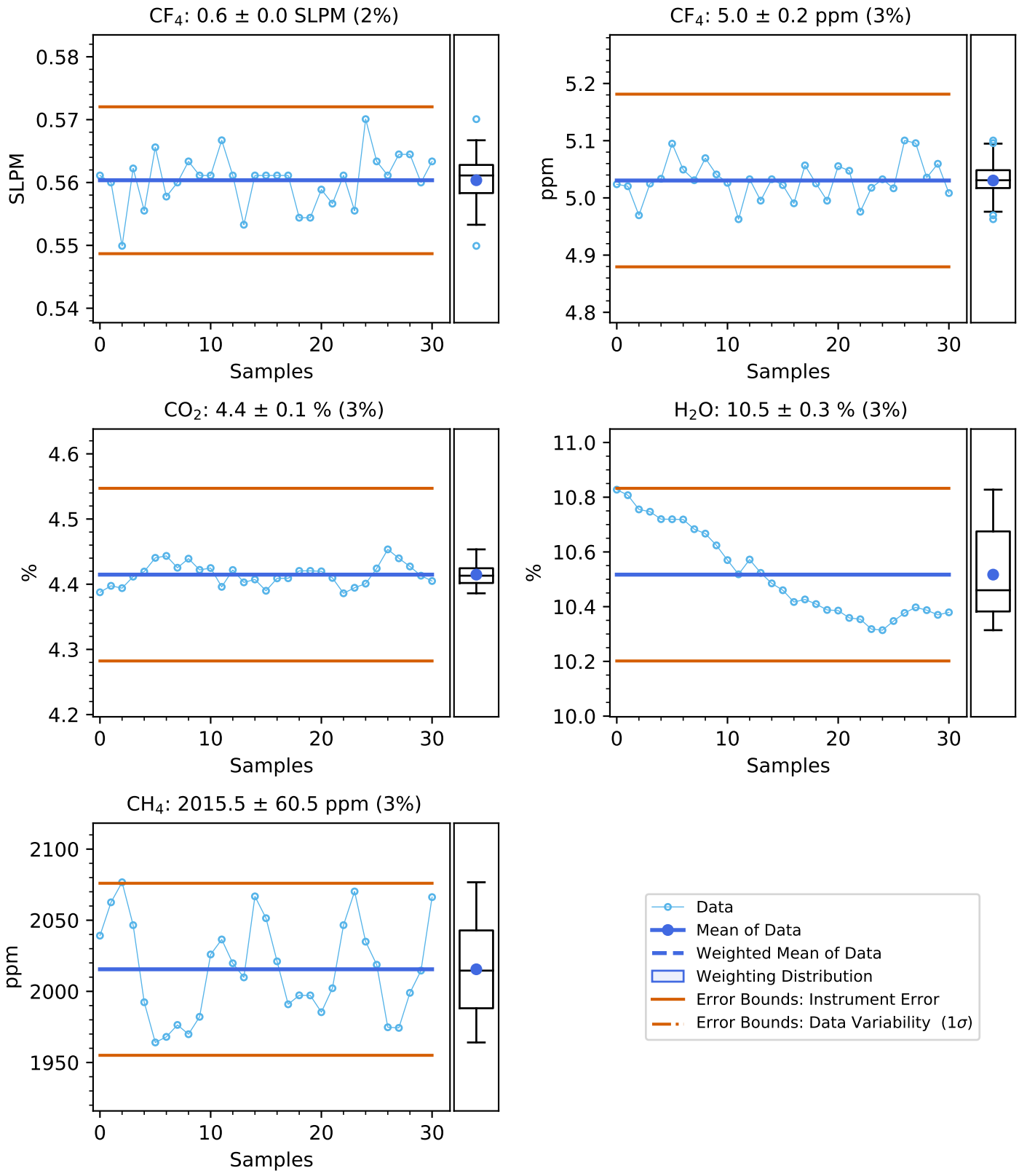

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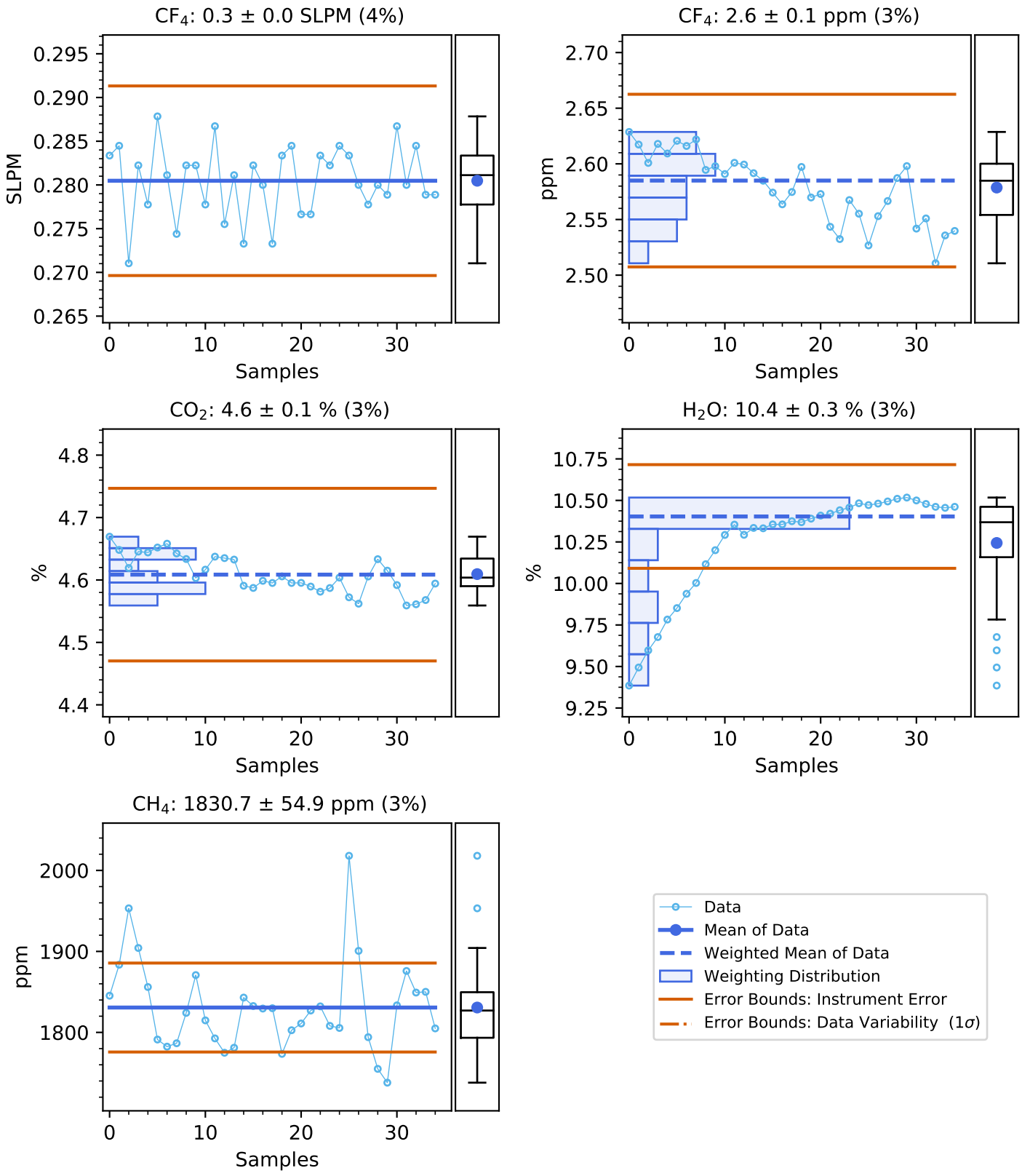

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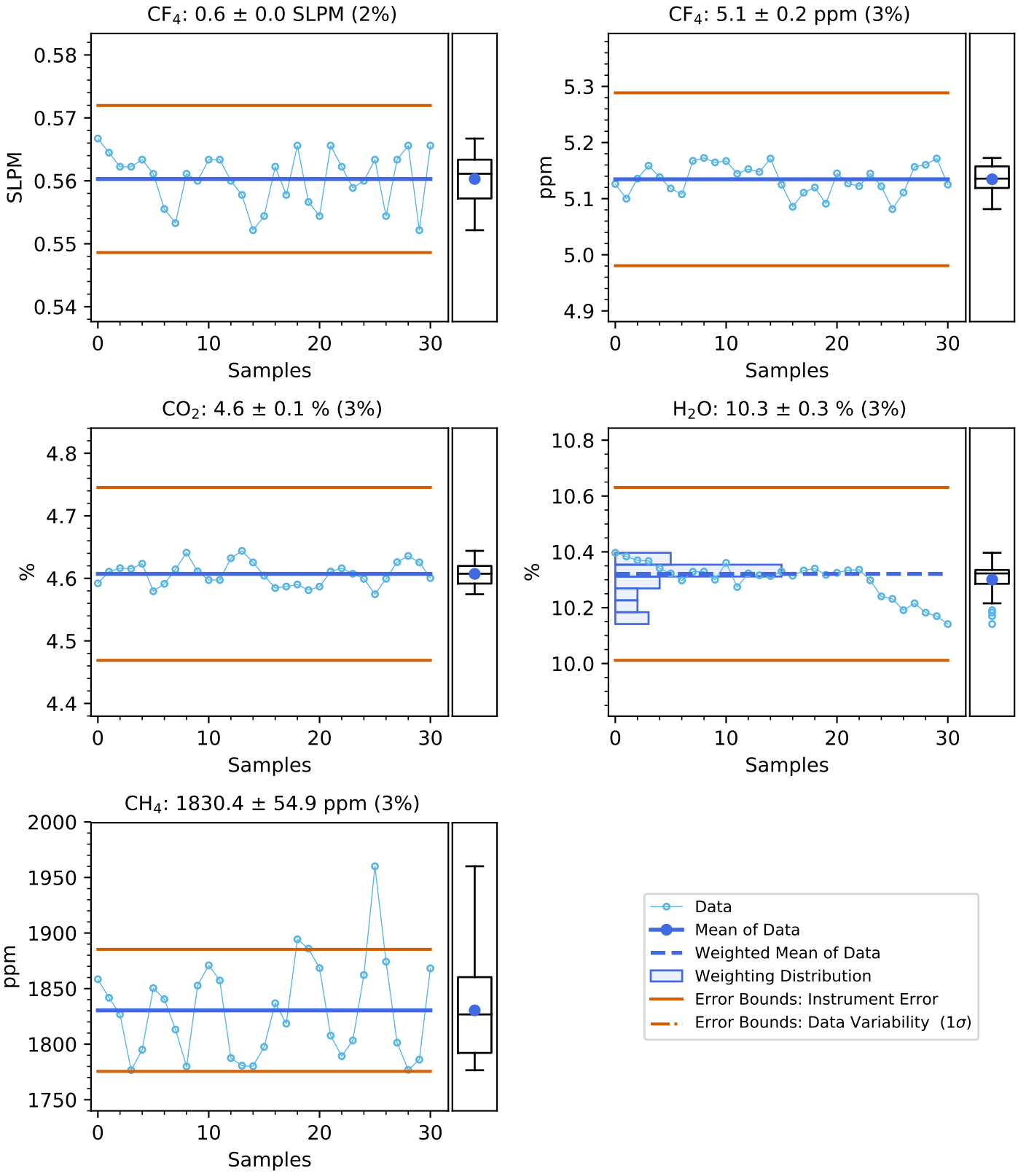

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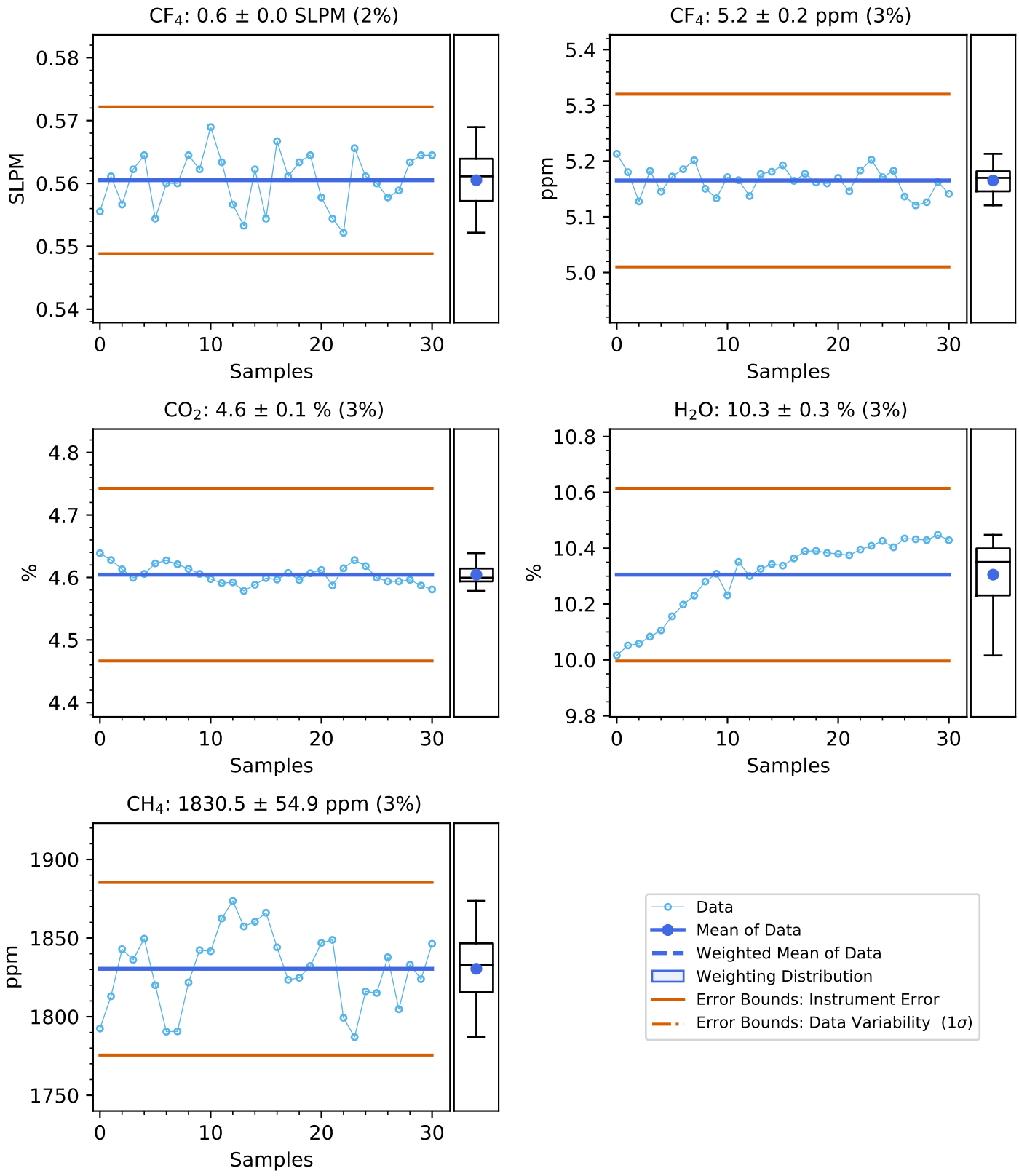

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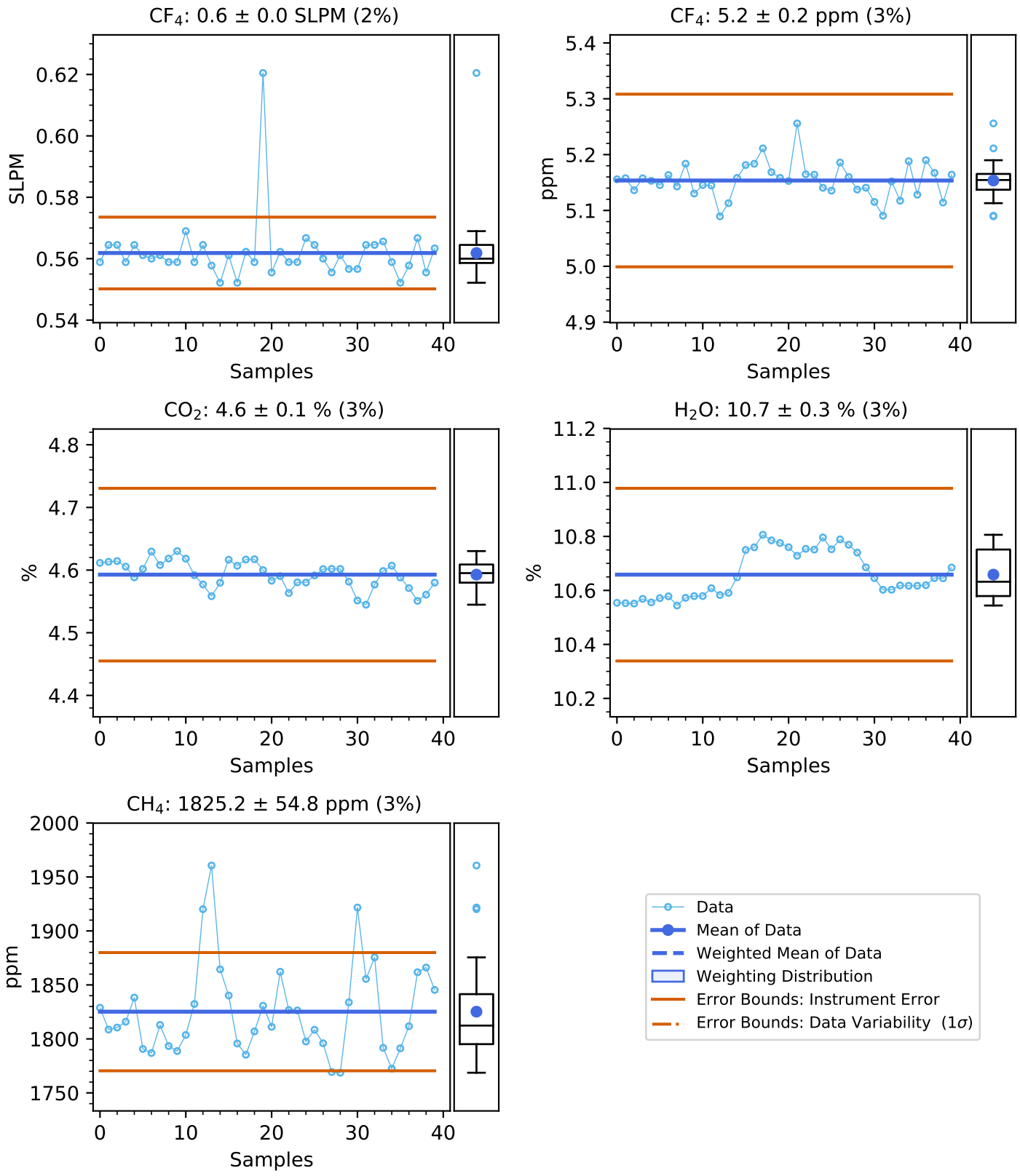

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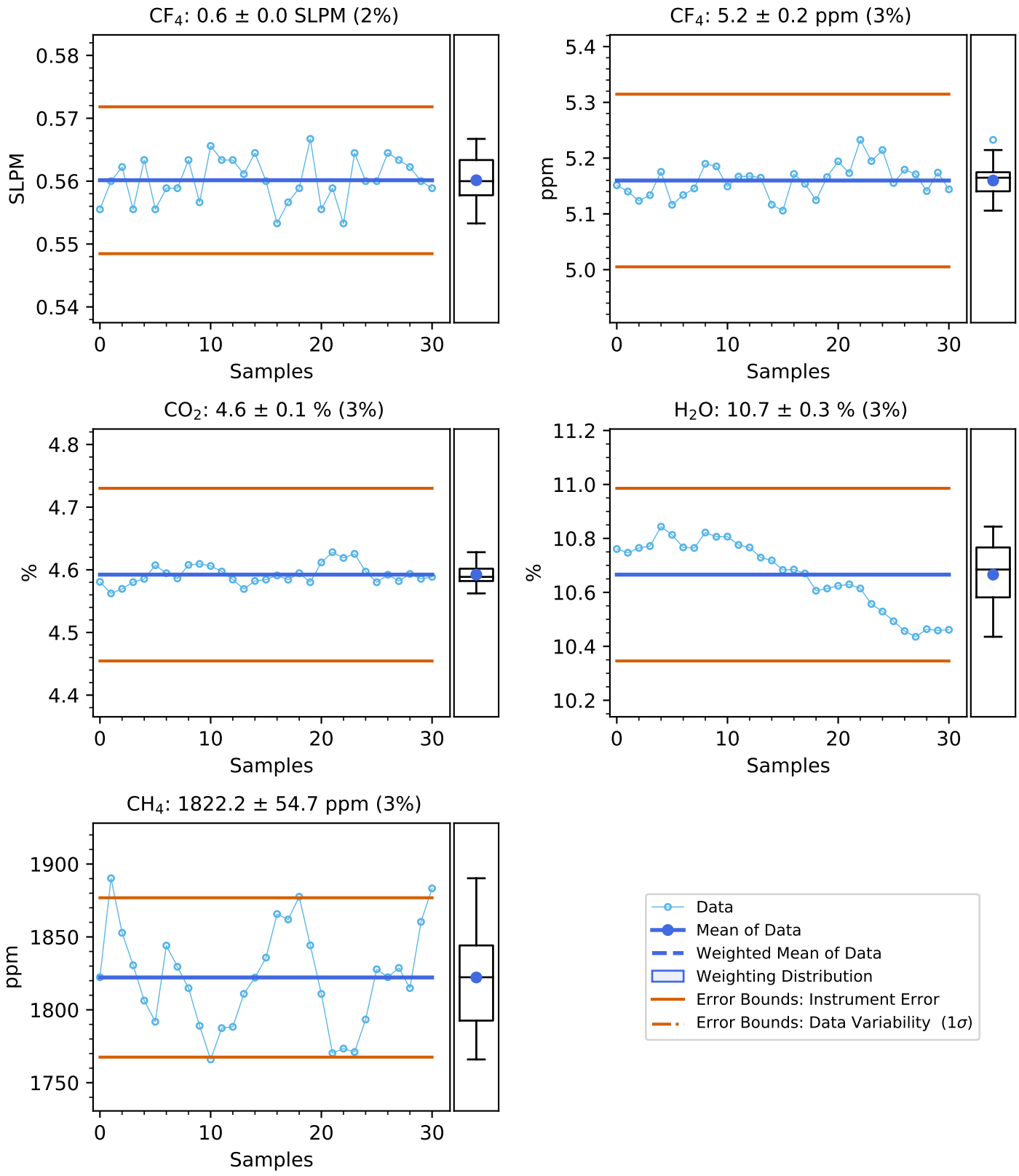

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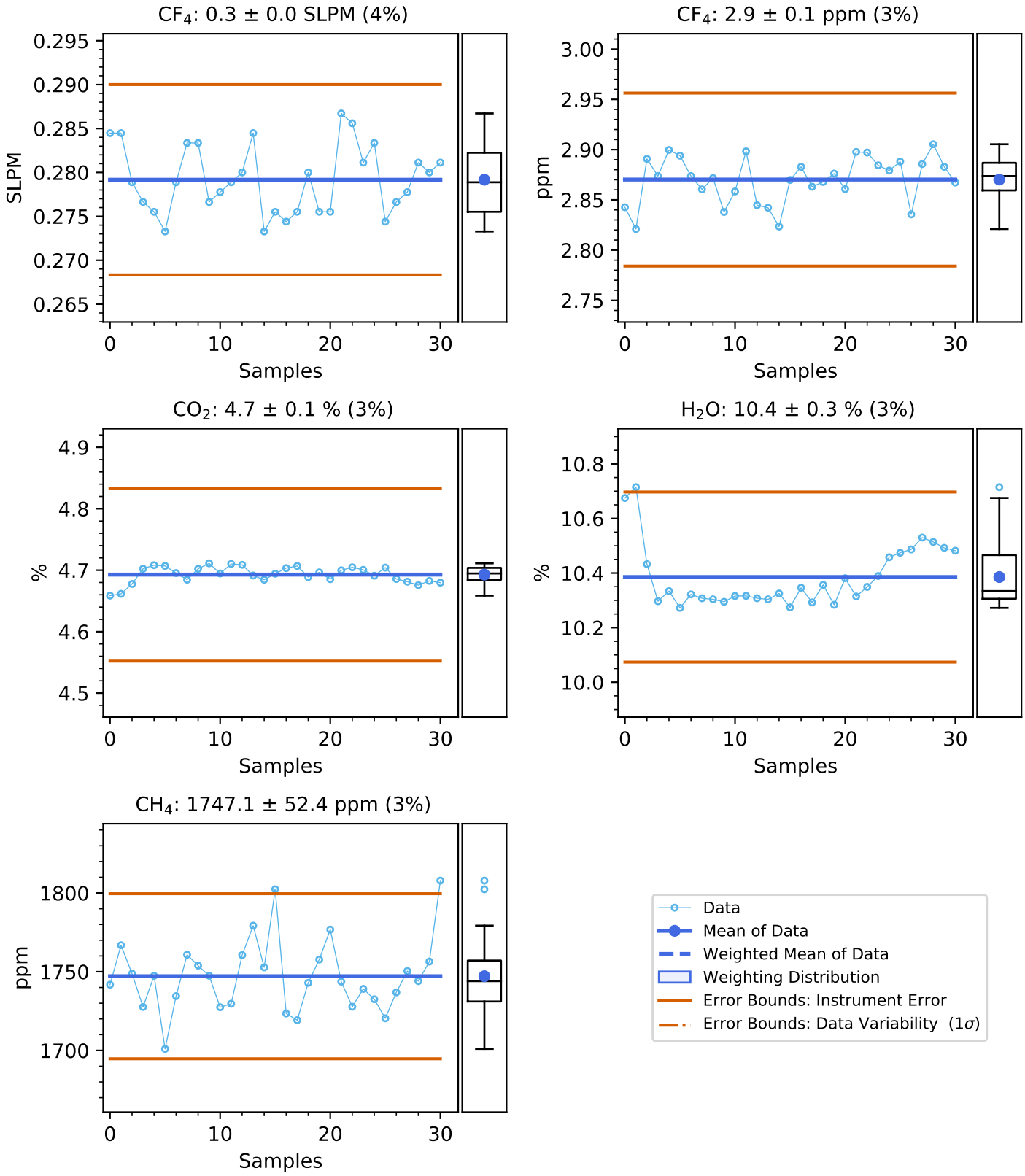

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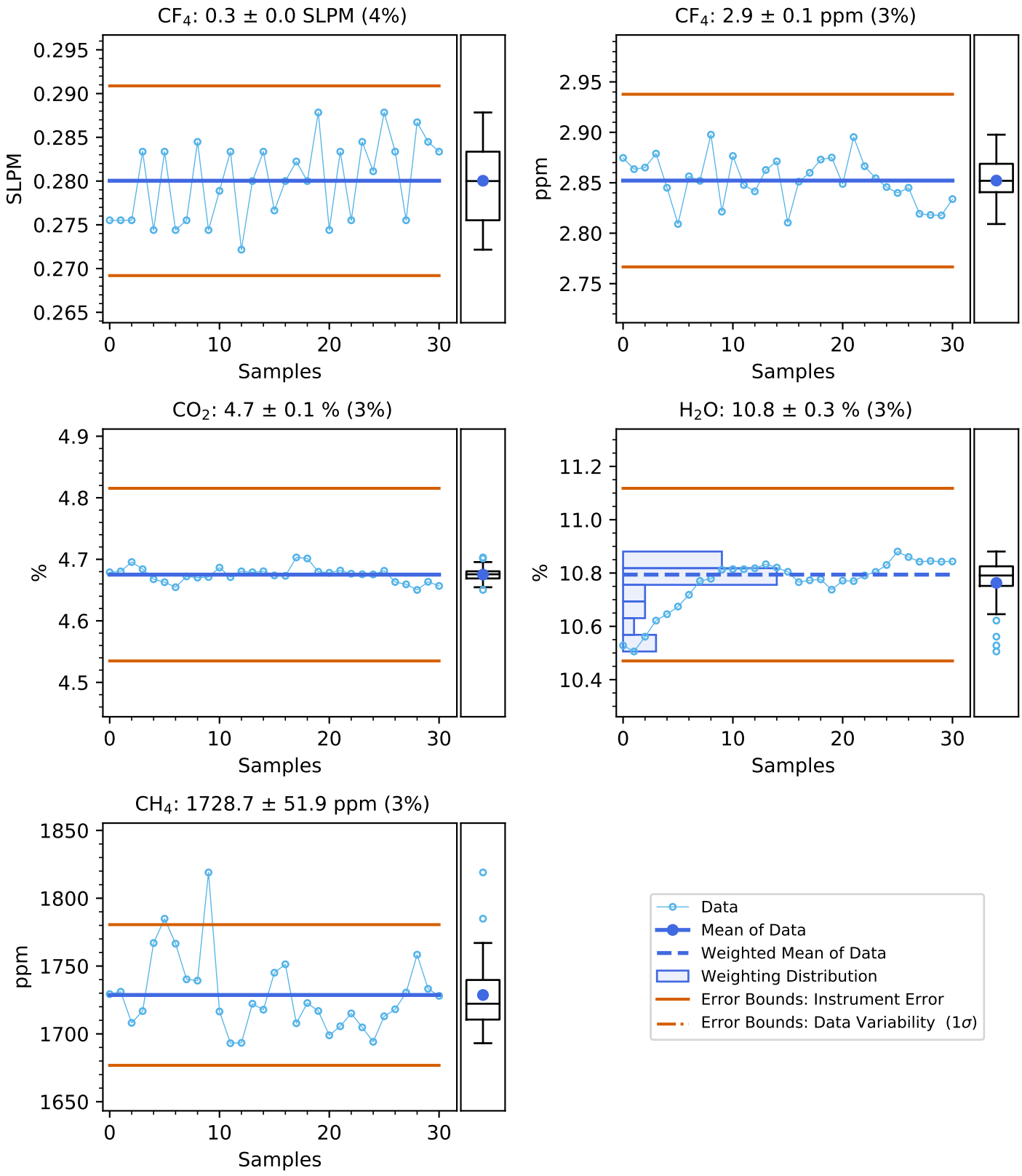
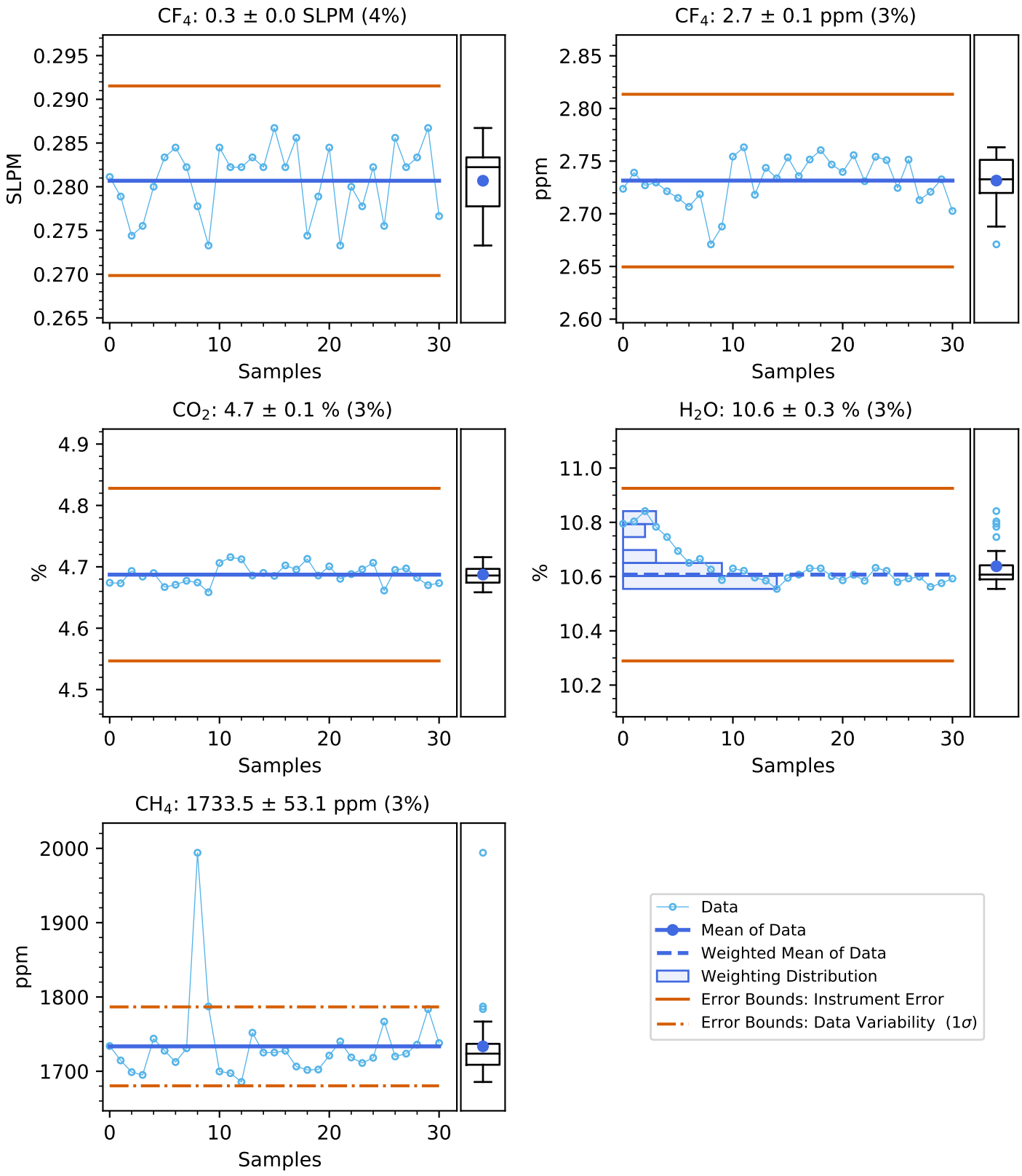


Facility: 2186 Unit: 3 Test: 3



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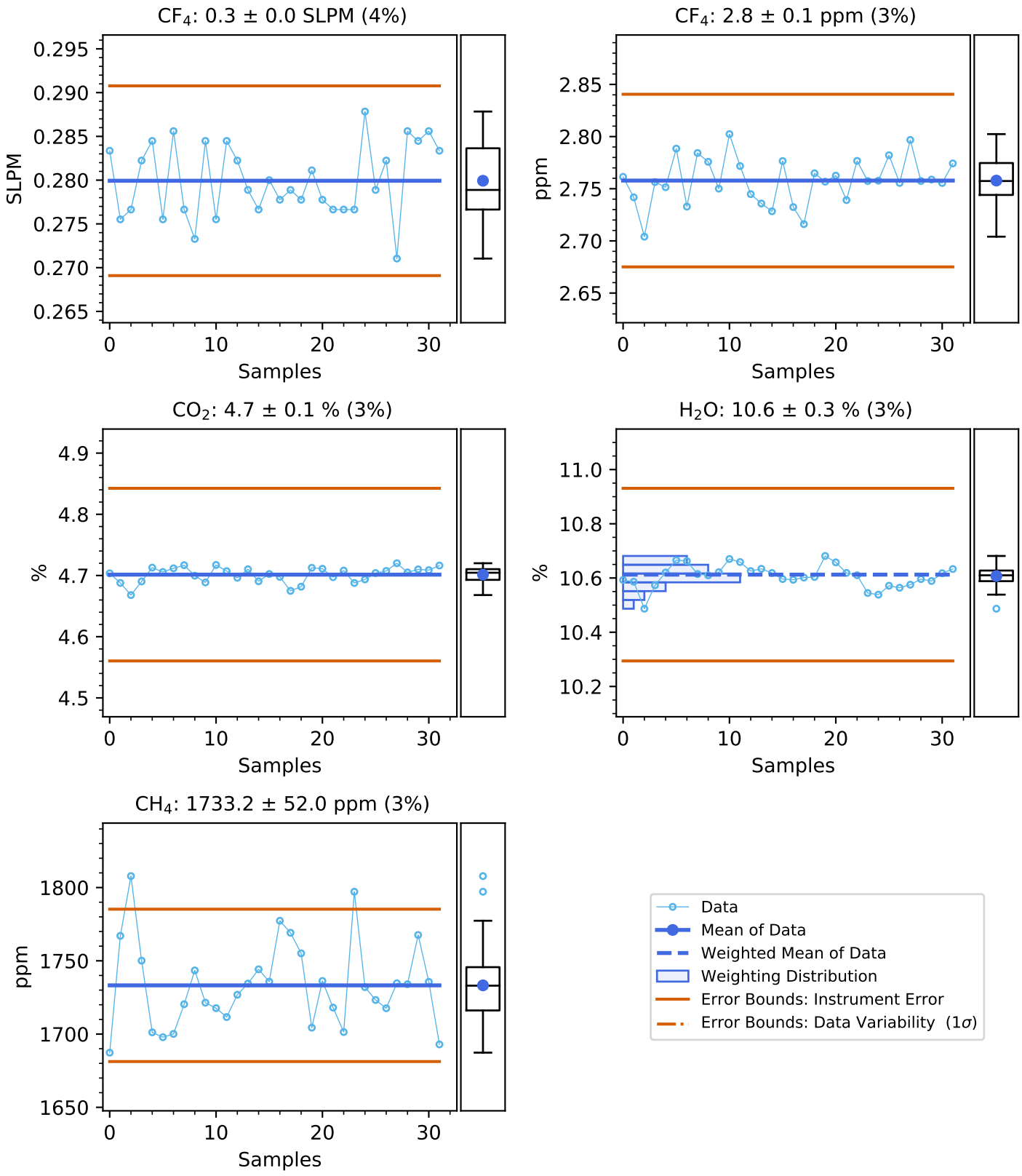

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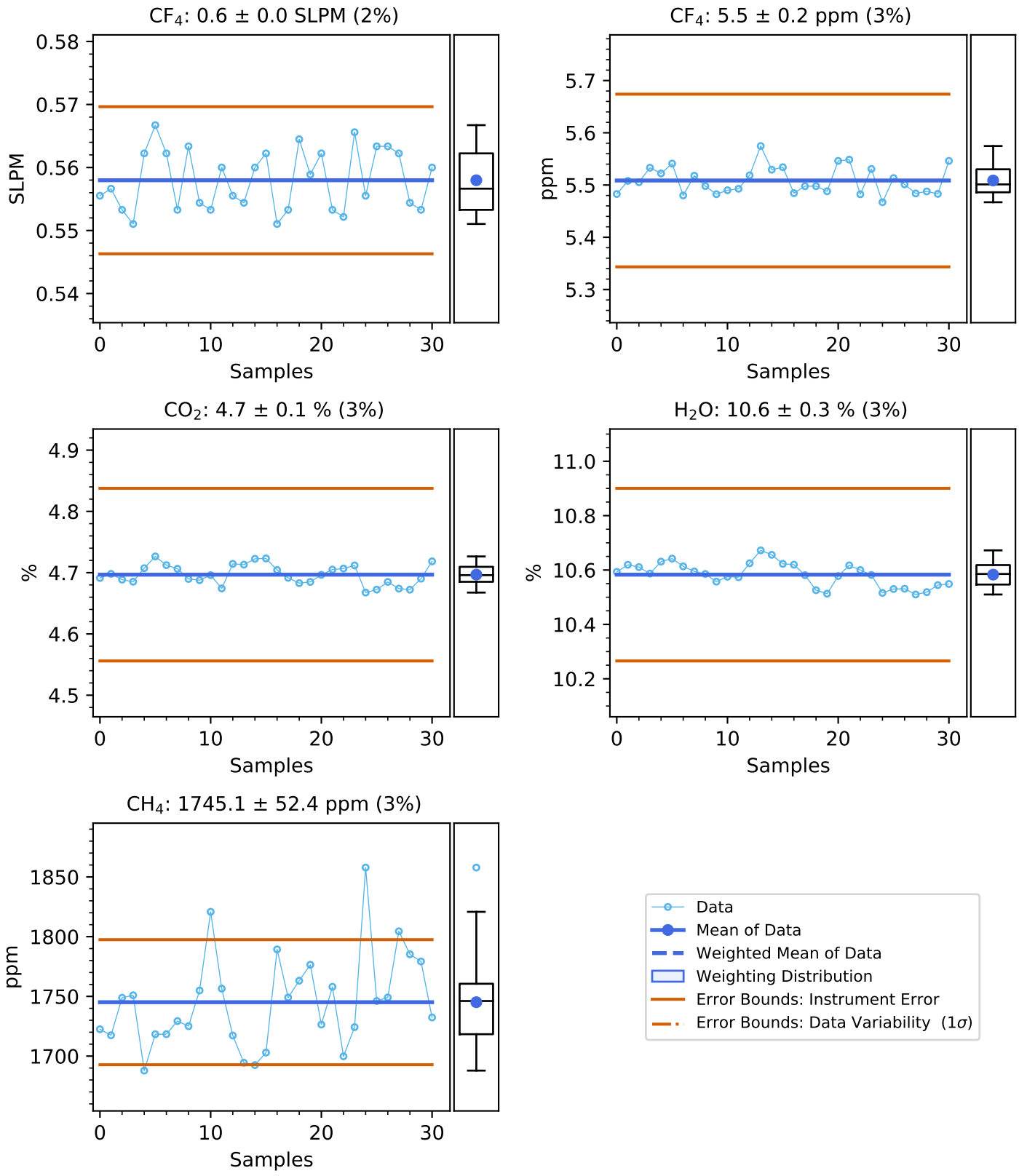
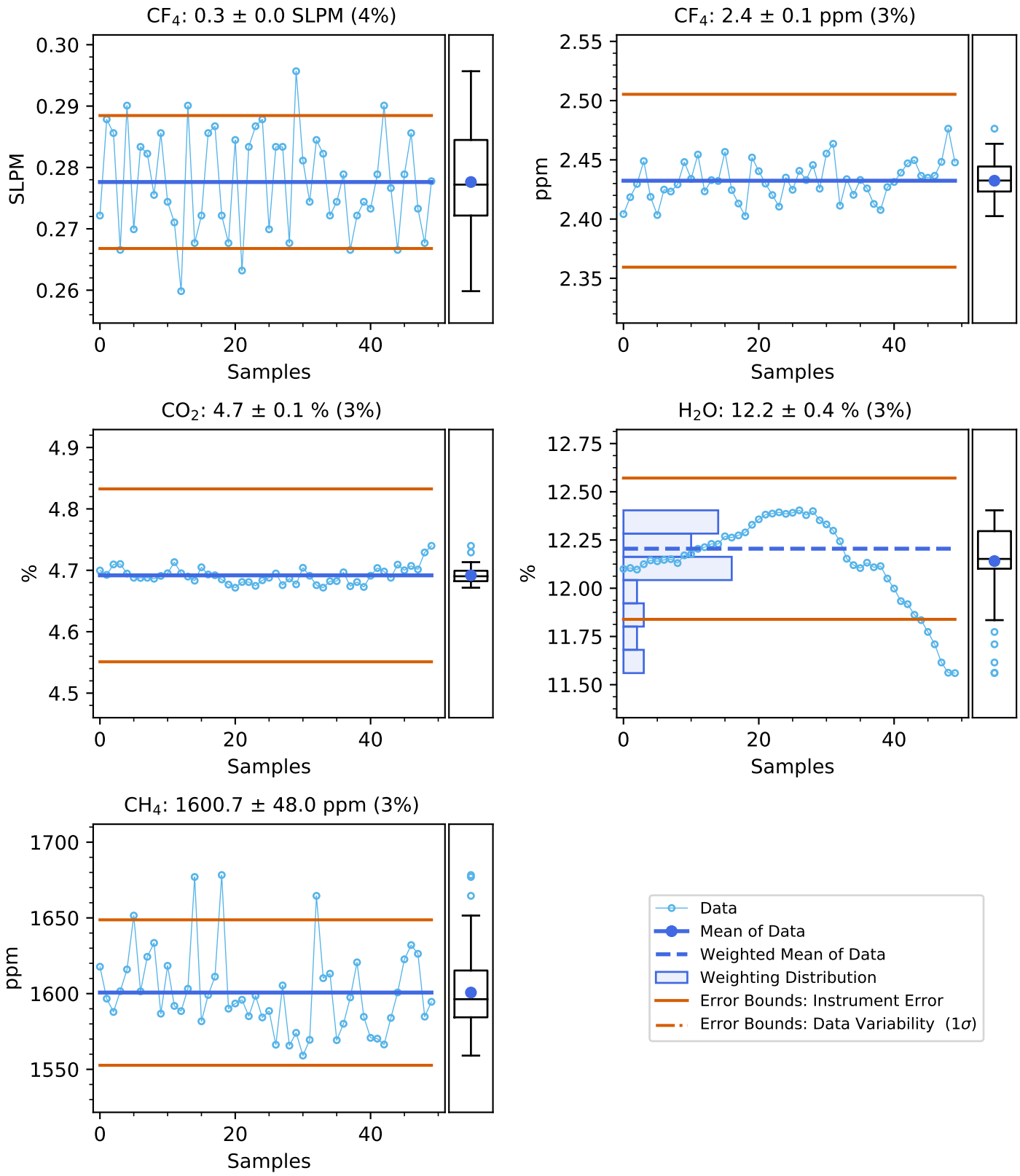
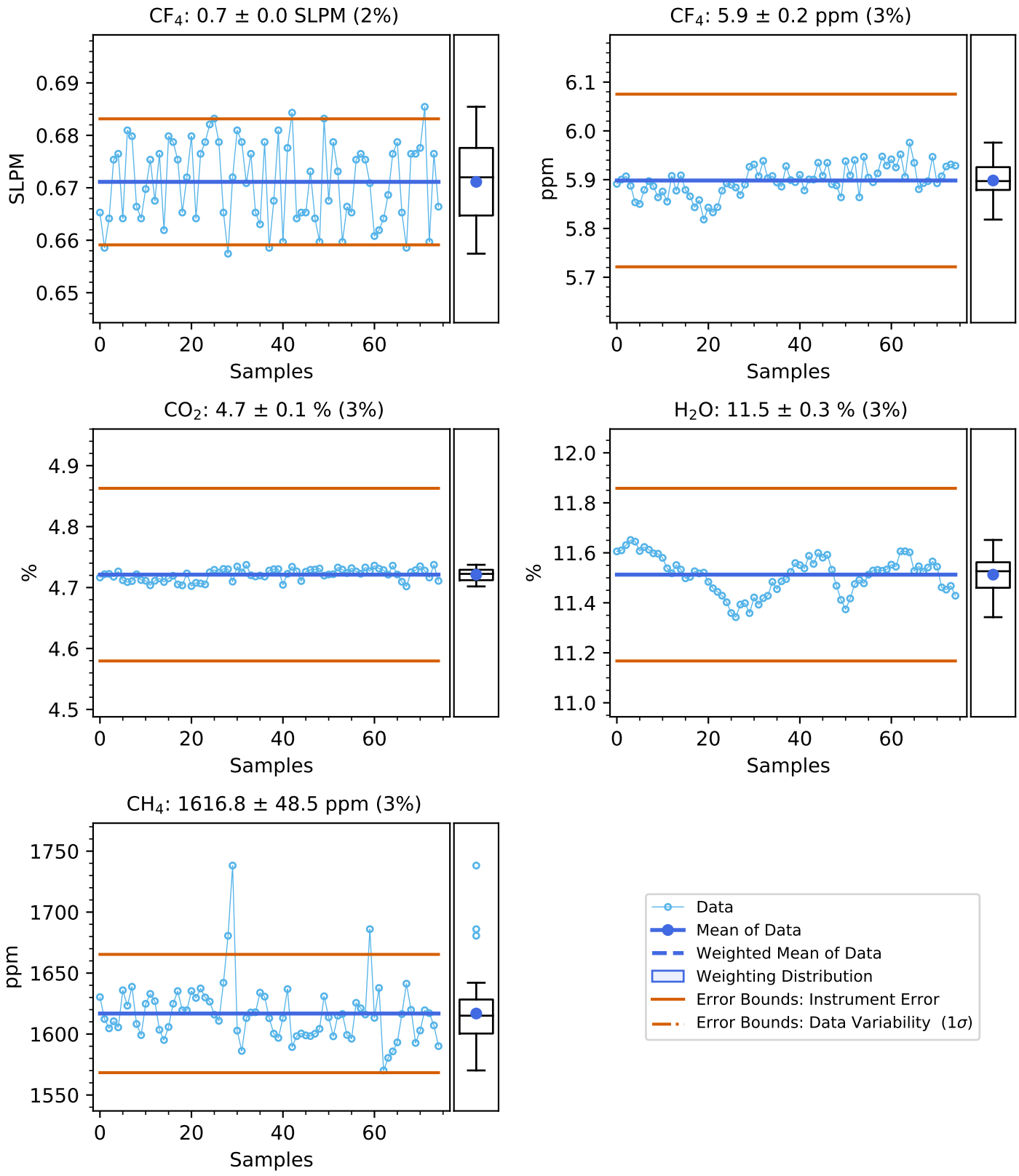


Facility: 1505 Unit: 1 Test: 1



Facility: 1505 Unit: 1 Test: 2



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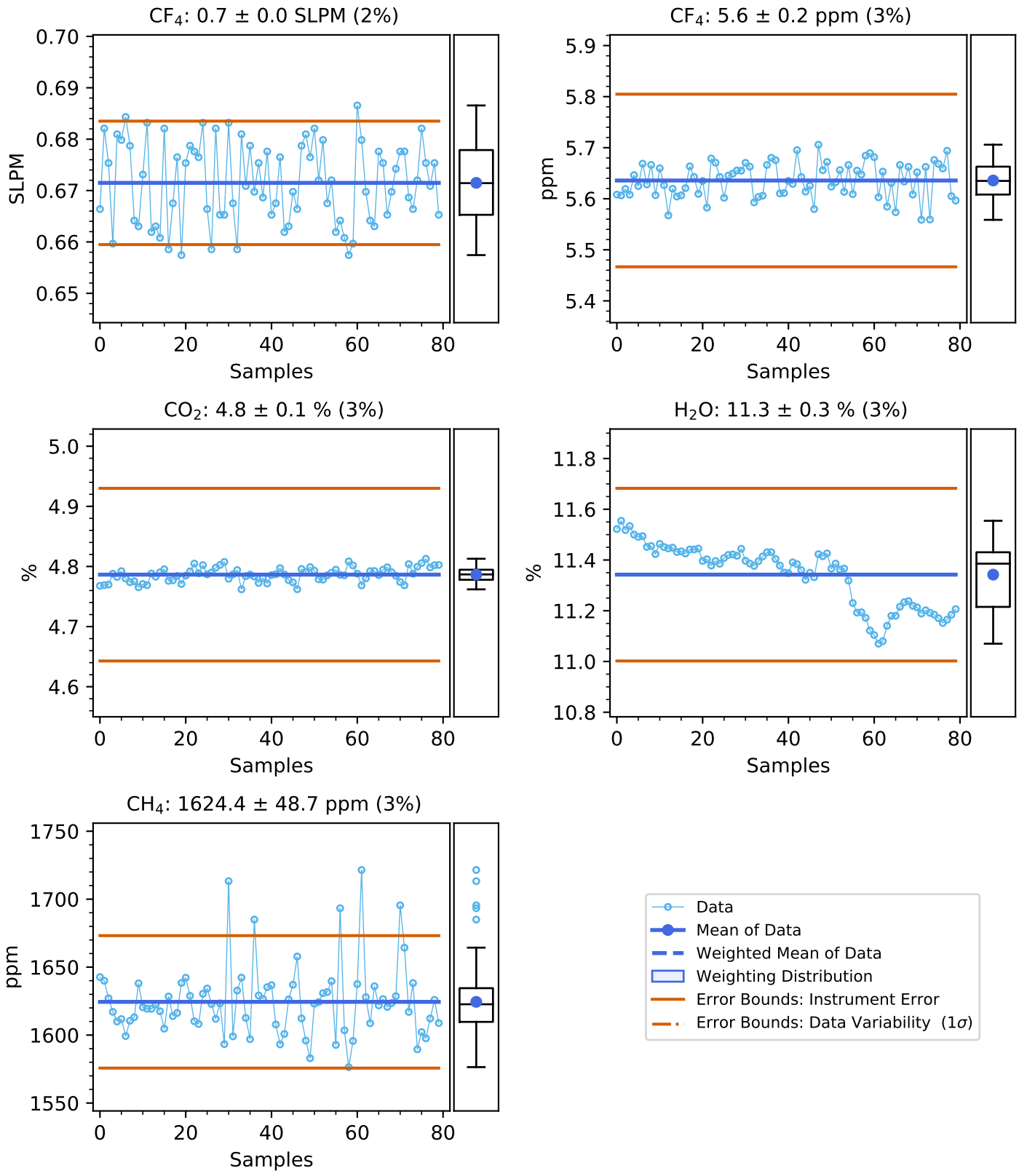

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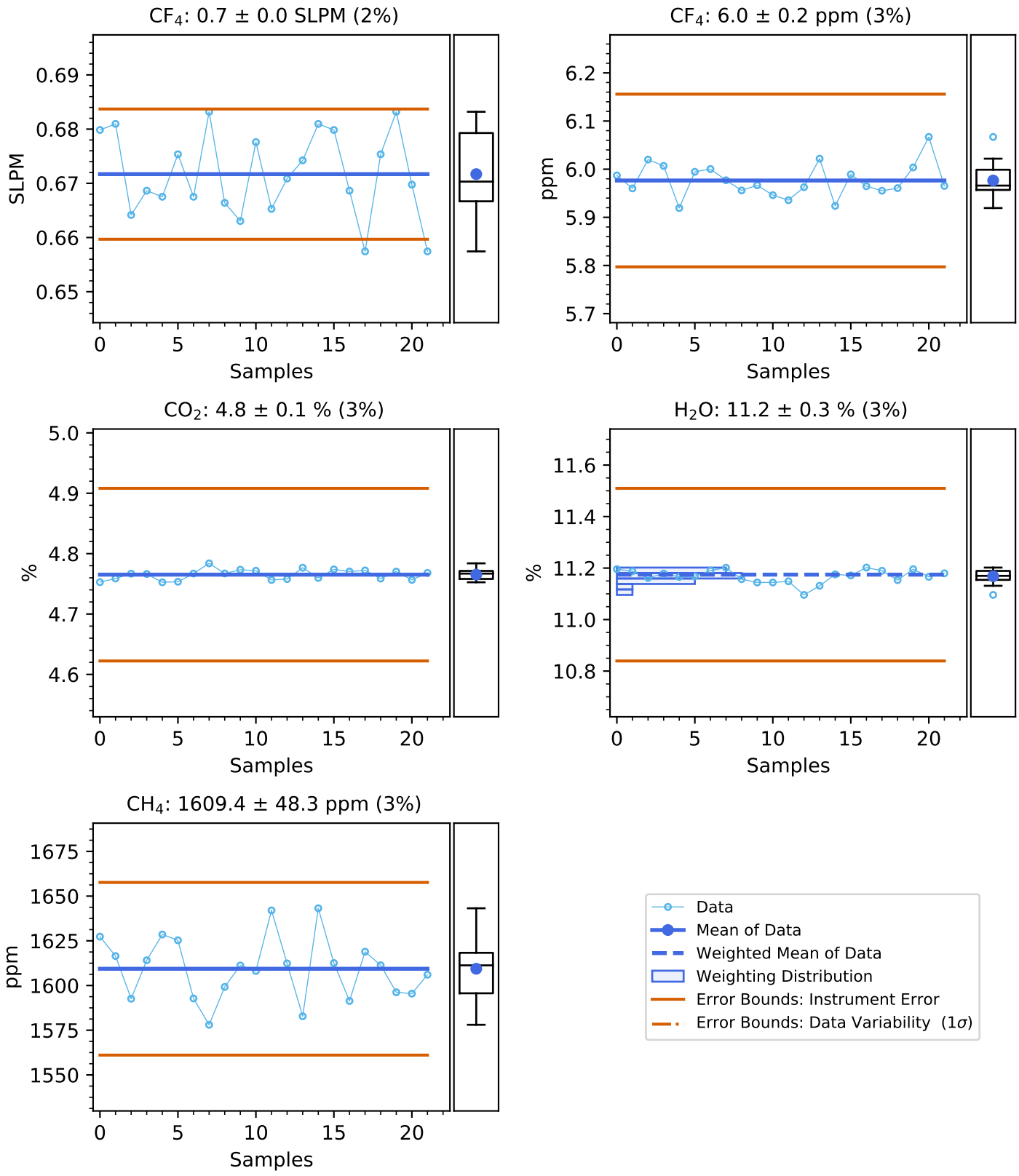
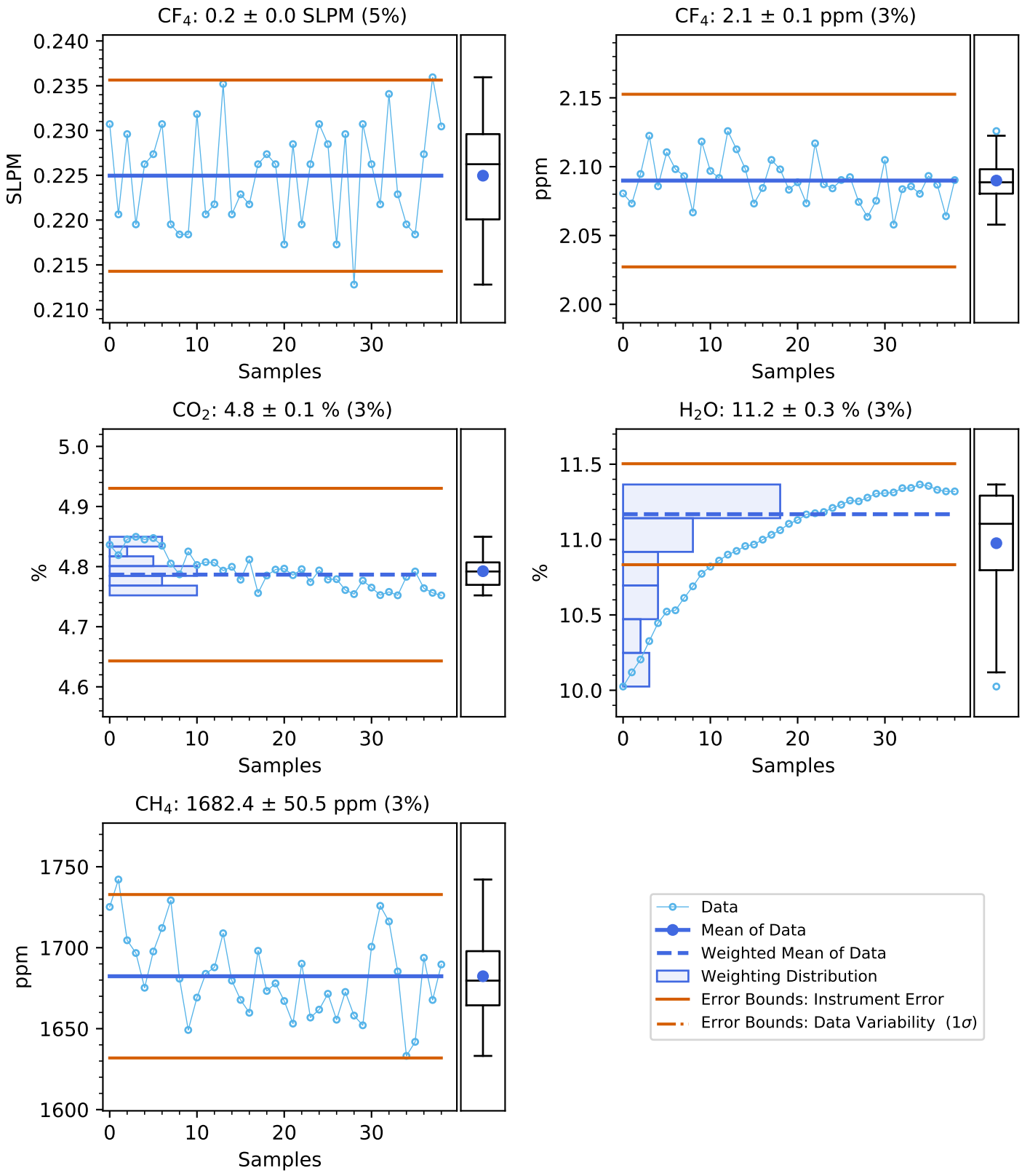


Facility: 1505 Unit: 2 Test: 1



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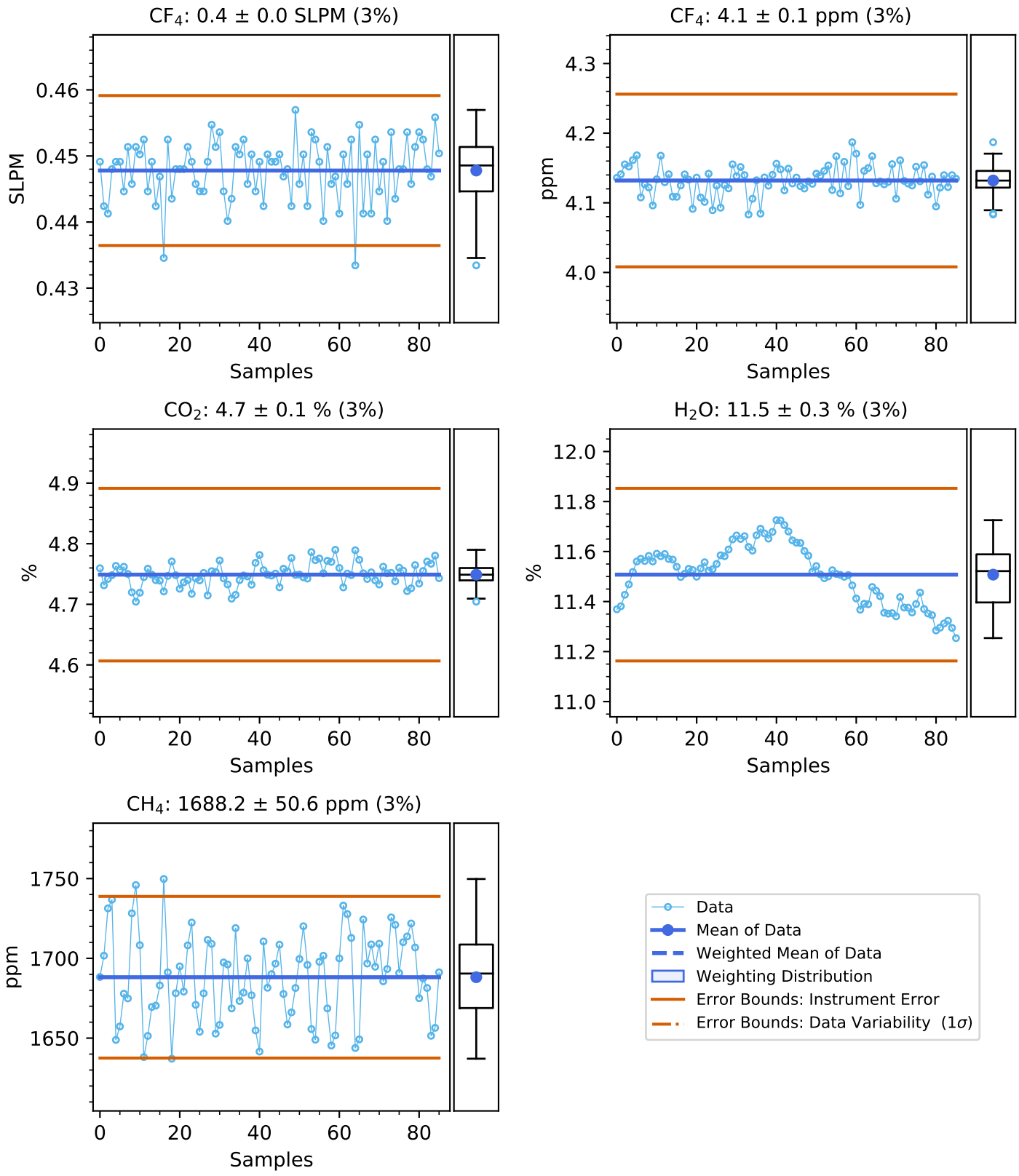

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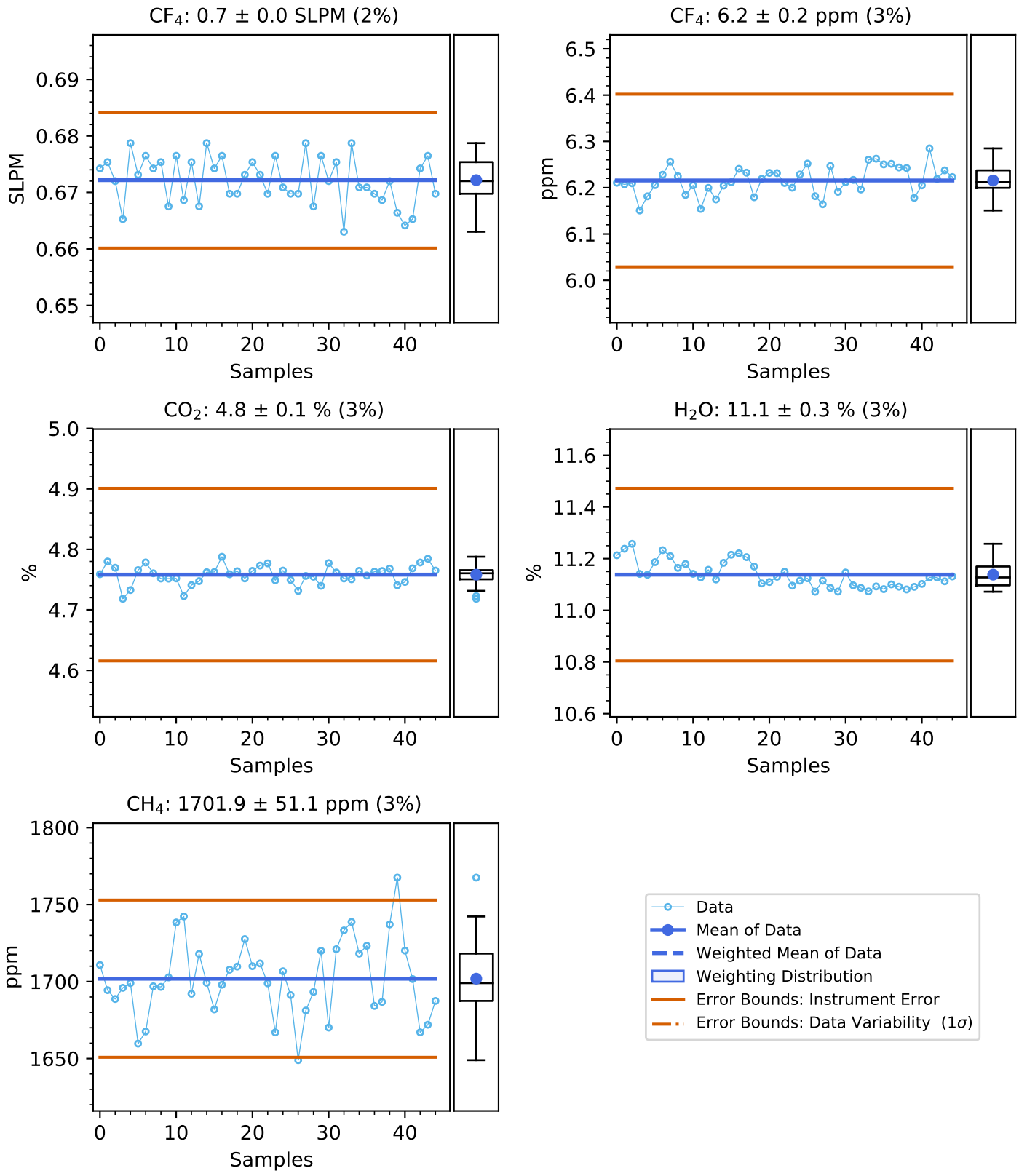

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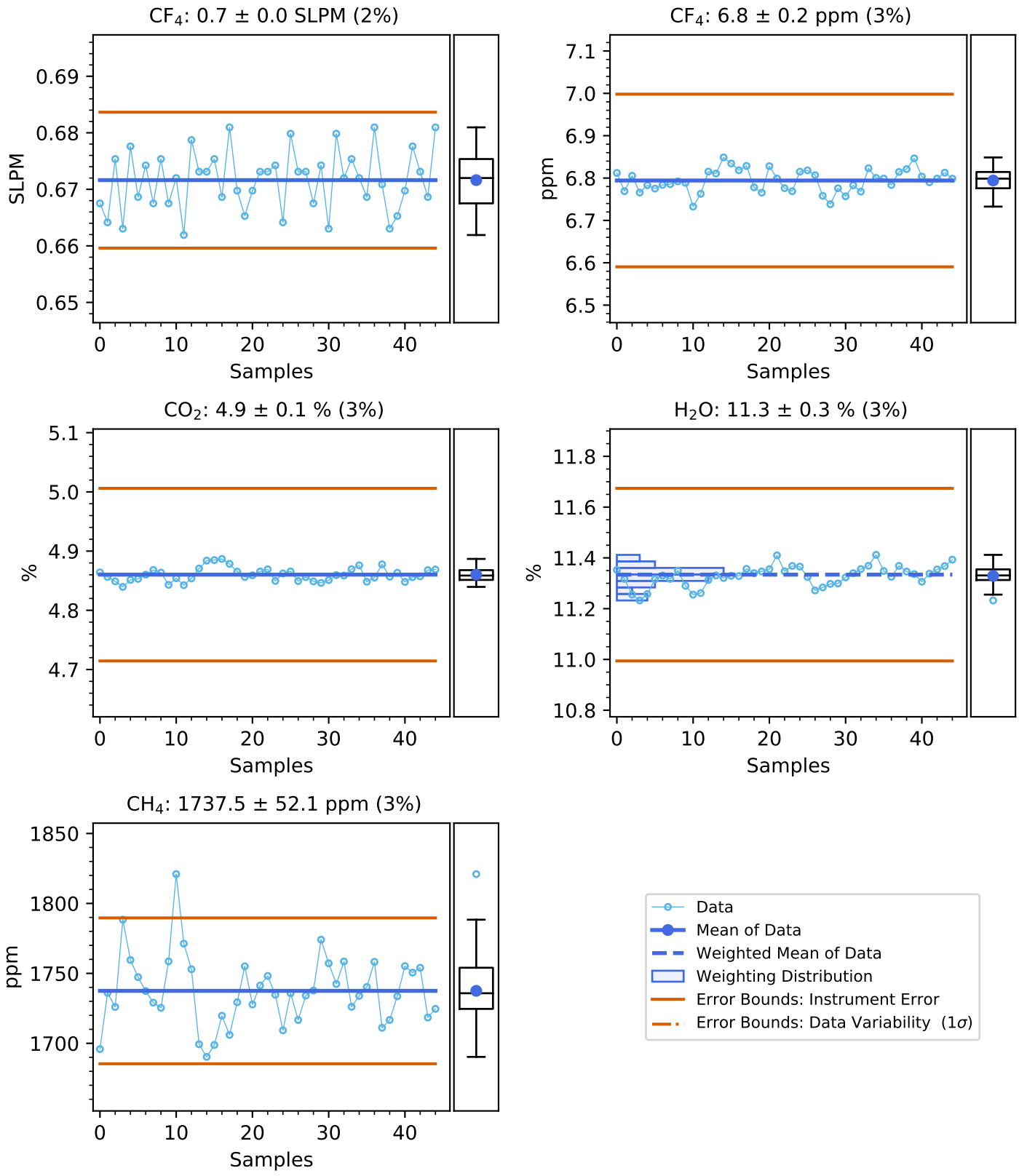

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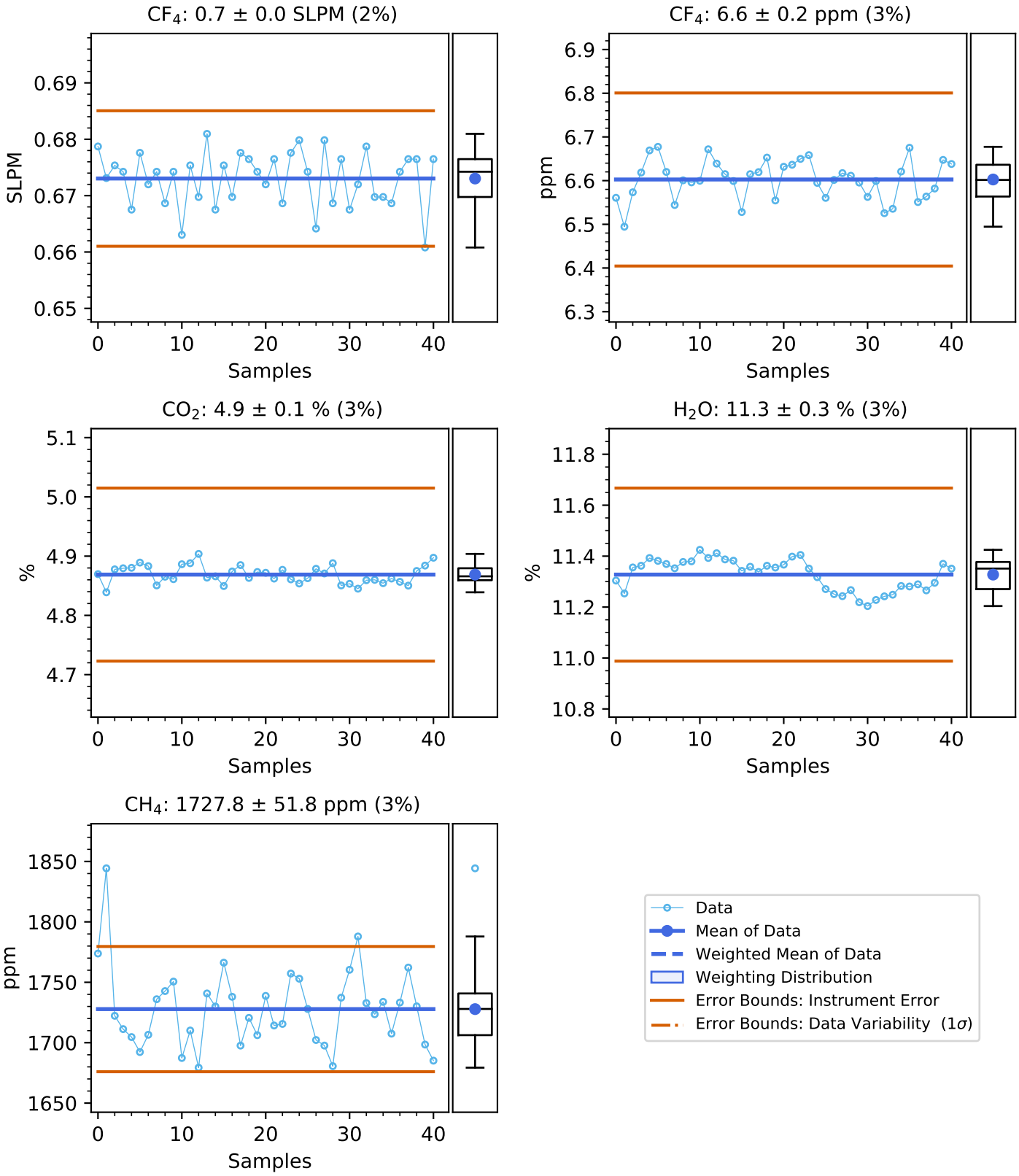

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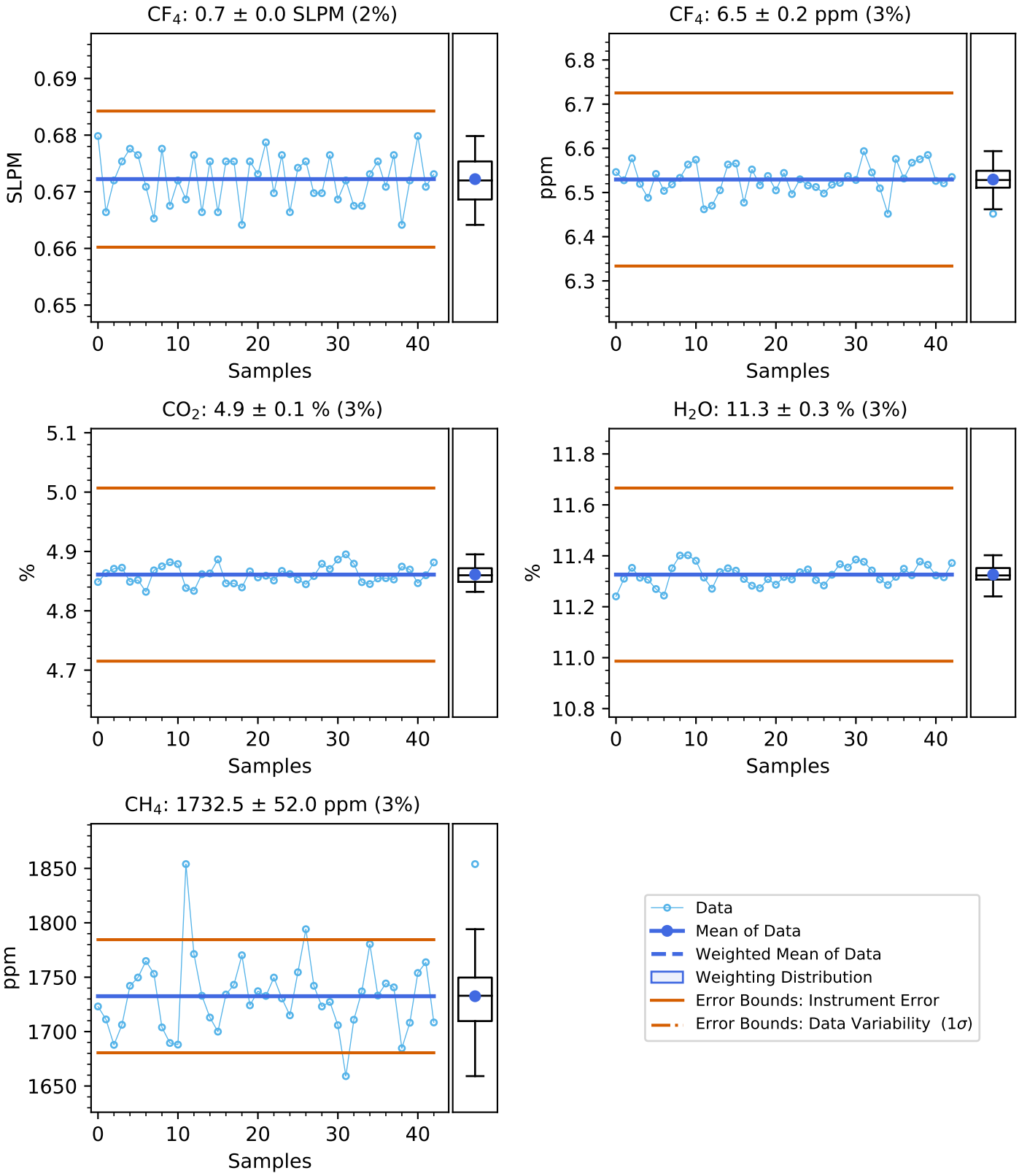

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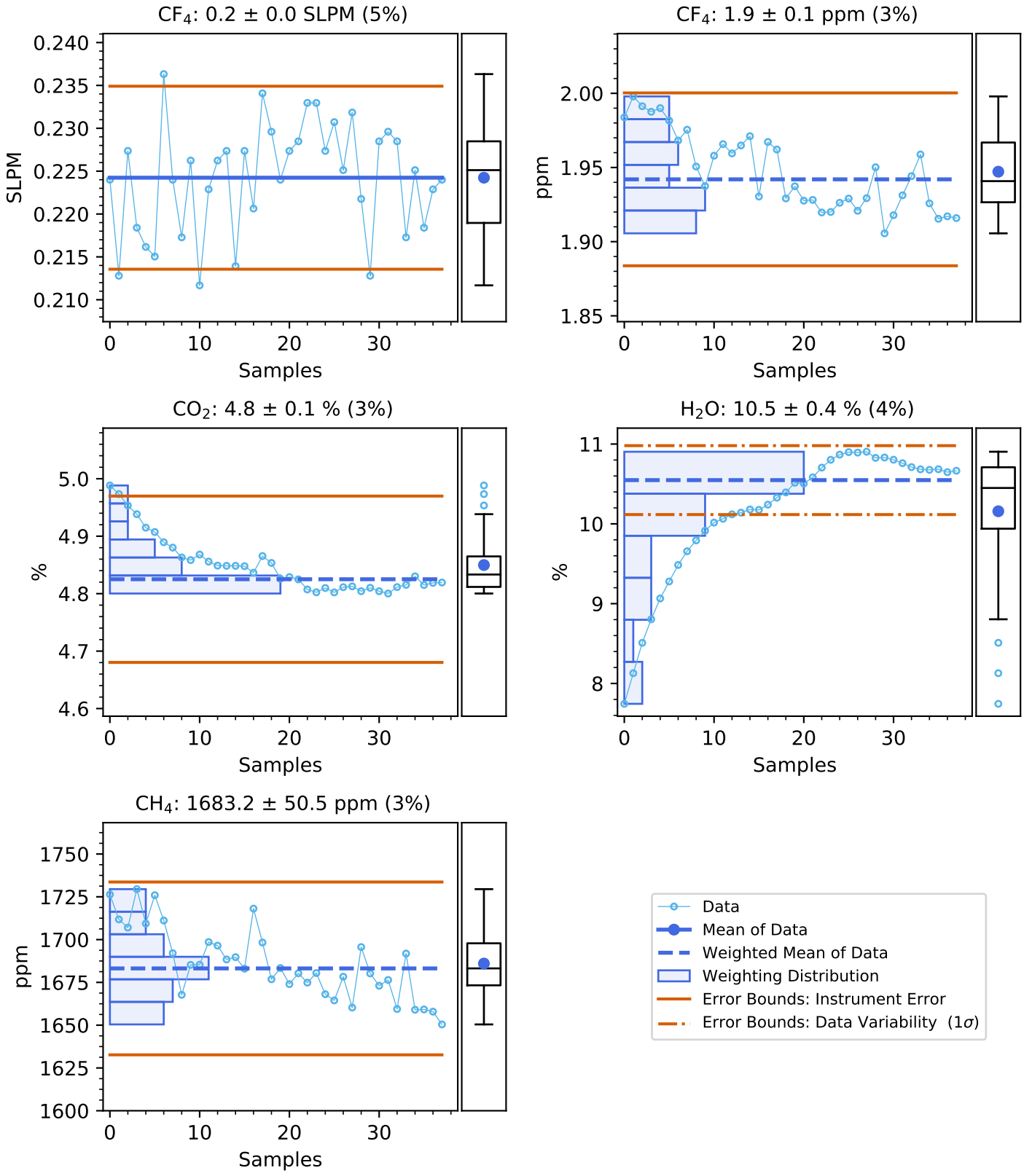

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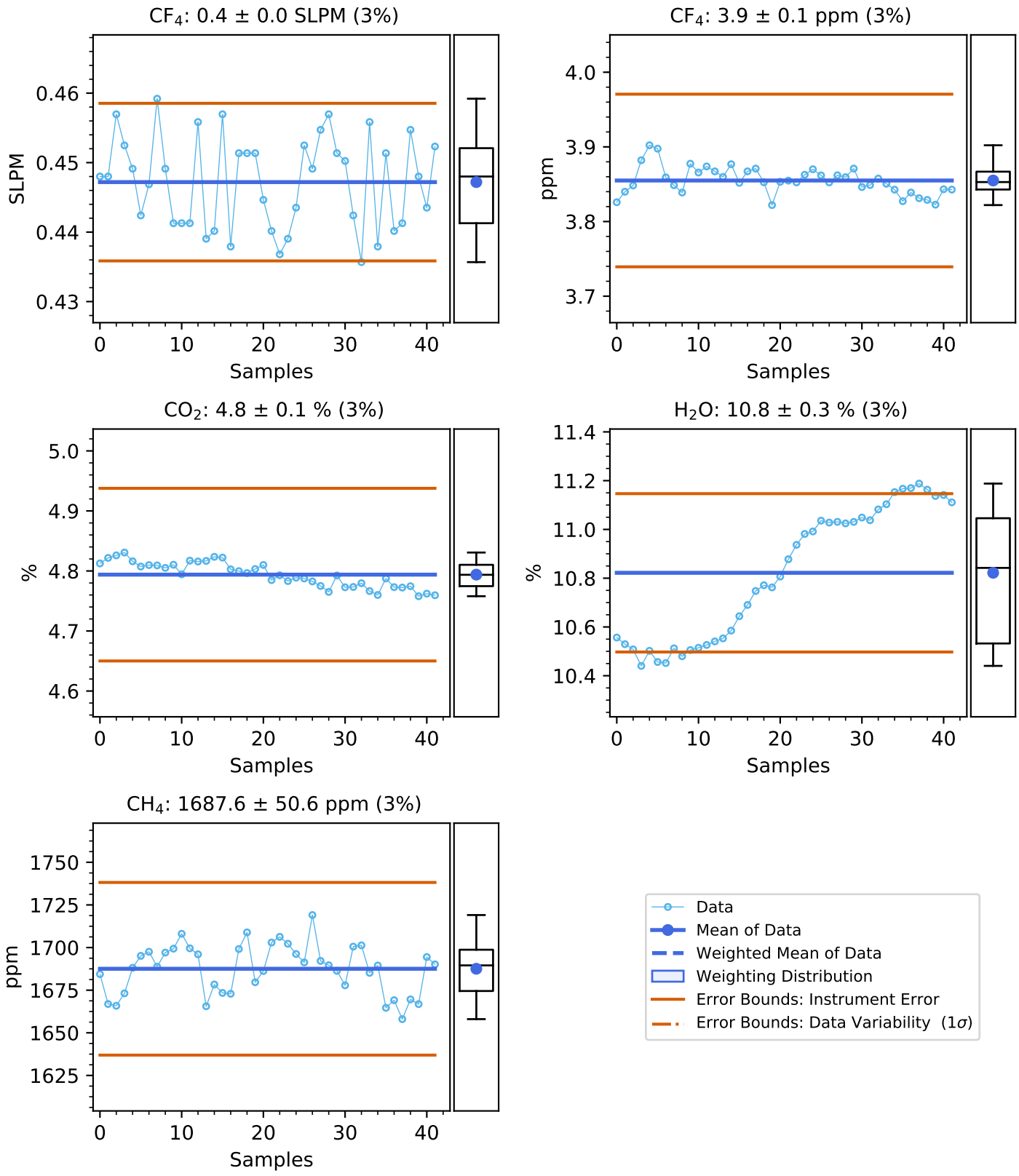

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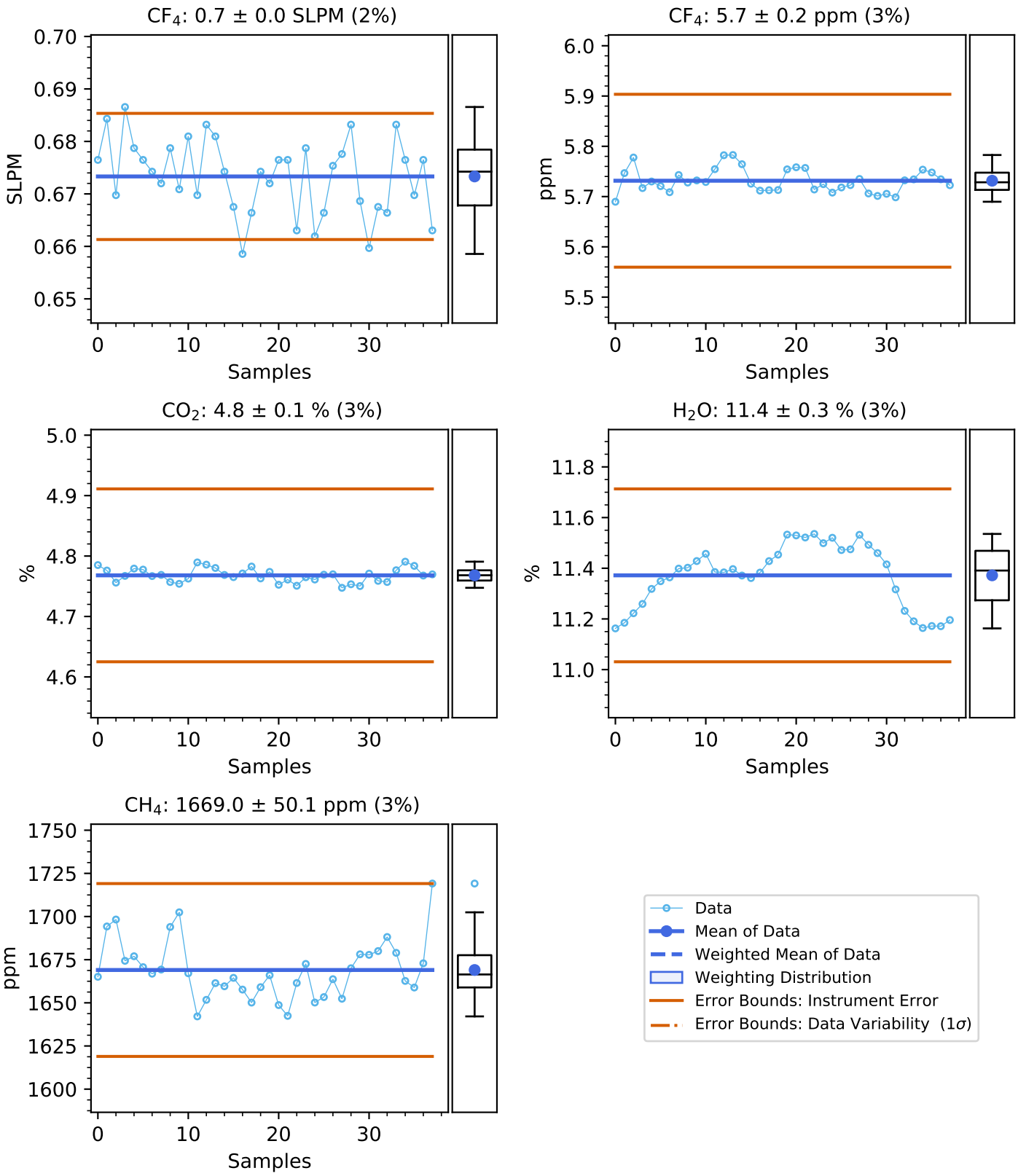

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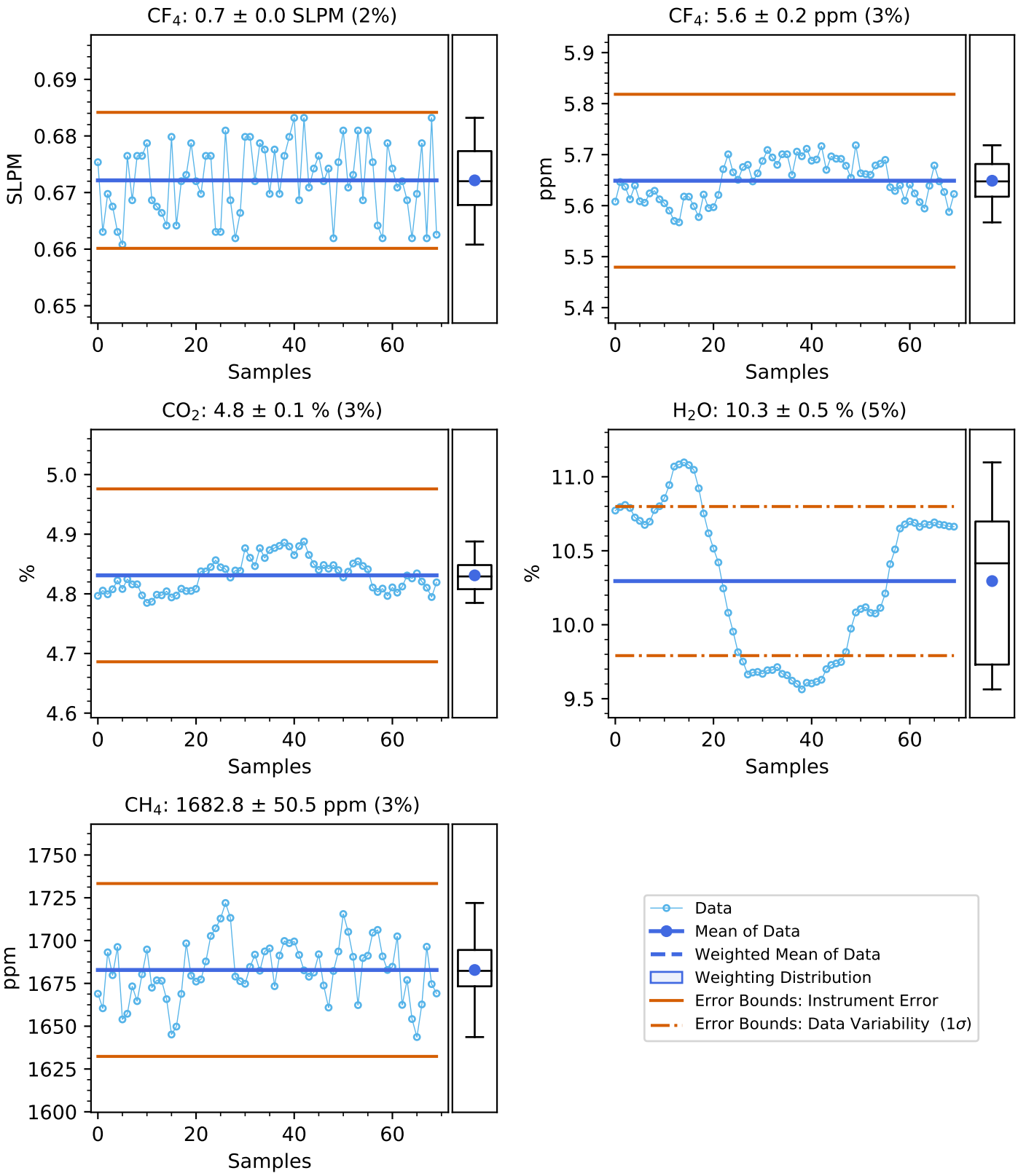

Appendix B
Methane Emissions from Gathering Compressor Stations in the U.S.:
Leaker Emission Factor Details

Daniel Zimmerle[1], Timothy Vaughn[1], Benjamin Luck[1], Terri Lauderdale[2], Kindal Keen[2], Matthew Harrison[2], Anthony Marchese[1], and Laurie Williams[3]

[1]Energy Institute at Colorado State University
[2]AECOM
[3]Fort Lewis College

B Leaker Emission Factors Plots

Plots and tables in this appendix provide a detailed overview of the recommended leaker emission factors. Each page contains a plot of the measured data and a table summarizing key statistics for the emission factor. The following section, Section B.1, includes data for component categories where there were insufficient measurements to develop emission factors.

Each emission factor is summarized on a separate page. The page starts with a plot which shows measurement data for whole gas, containing both a histogram (probability distribution function or PDF) and as a a cumulative distribution function (CDF). In addition, the plot includes an additional CDF that includes the augmented measurement data, as marked, resulting from estimates of missing or incomplete measurements. Data in this latter CDF is utilized to create the emission factor.

The mean emission factor was calculated by bootstrapping [1] the mean (5000 bootstrap samples), and is included on the plot as a mean line (vertical black line) and shaded area. Note that all plots have a logarithmic emissions axis.

Following the plot is a table summarizing the measurement data displayed in the plot. Columns include:

Column Header	Description
Data	Summarizes the number of measurements, and simulated measurements, in the emission factor
Min & Max	Minimum and maximum measurement values (scfh)
Lower & Upper	Lower and upper 95% confidence interval of the mean, developed using bootstrap methods(scfh)
Mean	Mean value and emission factor (scfh)
Top 5 %	Fraction of total measured emissions due to the top 5% of measured emitters

Some columns or values may be omitted from some tables if they are not appropriate or no data exists.

For each leaker factor the count of each measurement quality classification is listed in the table "Unmeasured Sources and Corrections", following the definitions in Section S3-1.5. The table also includes the total emissions from measured and estimated sources, to indicate how significantly estimates impacted the emission factor estimates.

The final table on each page summarizes the activity data from the measurement campaign for the component category. Two types of tables are included. If the component category is one of the components which were counted on major equipment to develop a estimate of components per major equipment unit, a detailed table is provided. This table contains:

Column	Description
Equipment Type	Compressor or Non-compressor equipment categories.
Count	Number of major equipment units which where components were counted
Min & Max	Minimum and maximum counts per unit
Lower & Upper	Lower and upper 95% confidence interval (scfh)
Mean	Mean number of components per major equipment unit
Top 5 Pct	Fraction of total measured emissions due to the top 5% of measured emitters
Units Measured	Number of major equipment units where one or more measurements were made
Units Screened	Number of major equipment units that were screened by optical gas imaging

If component category was not one of the component types which were counted in detail during the field campaign, the activity is estimated from the number of major equipment units which were screened and measured during the field campaign. This is summarized in a 3-column table including:

Value	Description
Equipment Type	Compressor or Non-compressor equipment categories.
Measured	Number of major equipment units where one or more measurements were made
Screened	Number of major equipment units that were screened by optical gas imaging

When insufficient study data were available to accurately estimate activity data a foot-note **"No activity data. Opportunistic measurements only."** appears in place of tables.

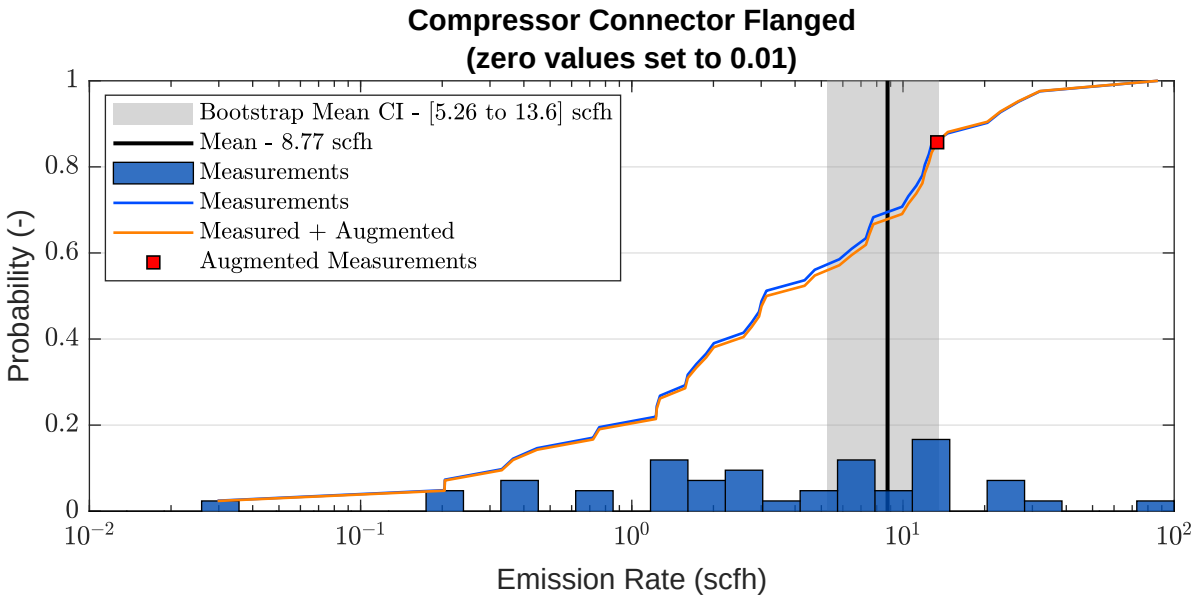

Figure B1: Compressor Connector Flanged

Table B1: Leaker Emission Factor for Compressor Connector Flanged

Gas Type	Data: Measured Count	Data: Simulated Count	Statistics (scfh): Min	Lower	Mean	Upper	Max	Fraction of Emissions Due to Largest 5% of Emitters
WholeGas	41	1	0.0236	5.26	8.77	13.6	107	0.328
CH4	41	1	0.0175	4.04	6.73	10.3	72.6	0.31

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	41	358 [345 to 371]	96% [95% to 97%]
Exceeded Capacity	1		
Inaccessible	1		
Incomplete Capture	1	13.4 [9.4 to 19.8]	3.6% [2.6% to 5.2%]
Other	4		
Total		372 [358 to 385]	

Table B2: Count of Screened and Measured Equipment for *Compressor Connector Flanged*

Equipment Type	**Statistics (components per unit)**						**Top 5%**	**Units Measured**	**Units Screened**
	Count	**Min**	**Lower**	**Mean**	**Upper**	**Max**			
Compressor	286	0	1.95	71.6	170	307	0.114	432	462

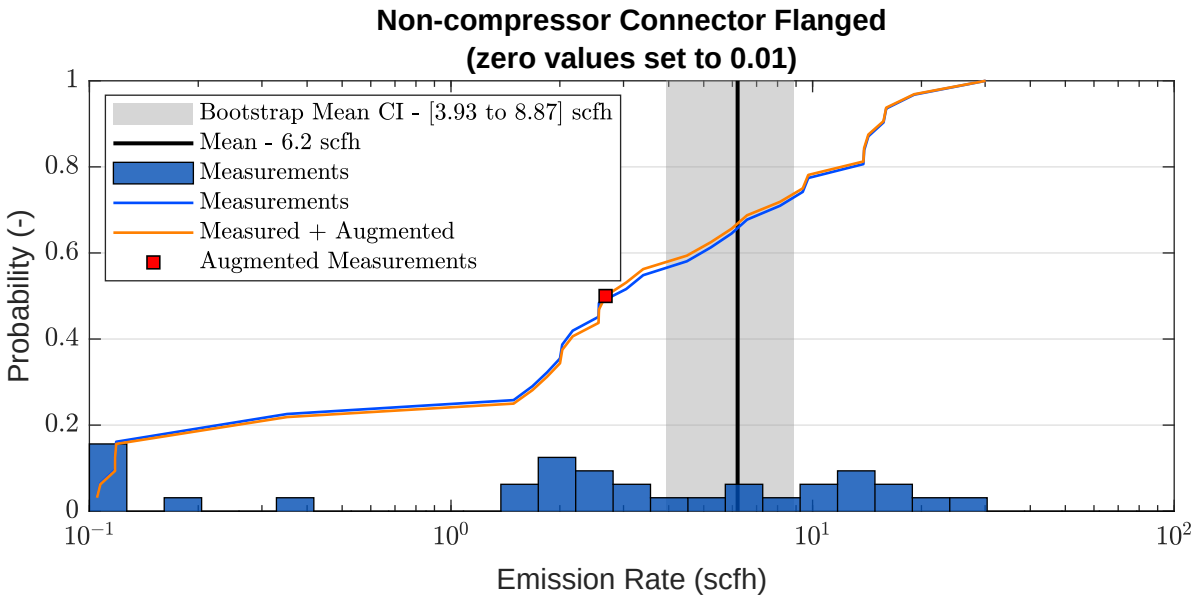

Figure B2: Non-compressor Connector Flanged

Table B3: Leaker Emission Factor for Non-compressor Connector Flanged

Gas Type	Data		Statistics (scfh)					Fraction of Emissions Due to Largest 5% of Emitters
	Measured Count	Simulated Count	Min	Lower	Mean	Upper	Max	
WholeGas	31	1	0.0818	3.93	6.2	8.87	36.2	0.209
CH4	31	1	0.0684	3.22	5.21	7.48	33.7	0.229

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	31	196 [190 to 203]	99% [98% to 99%]
Incomplete Capture	1	2.68 [2.09 to 3.52]	1.3% [1.1% to 1.8%]
Other	1		
Total		199 [193 to 205]	

Table B4: Count of Screened and Measured Equipment for *Non-compressor Connector Flanged*

Equipment Type	Statistics (components per unit)						Top 5%	Units Measured	Units Screened
	Count	Min	Lower	Mean	Upper	Max			
AGRU	7	0	0	53	72	72	-	8	8
Dehydrator	63	0	0	21.2	71.6	90	0.168	119	126
Separator	184	0	0	16.6	65.8	92	0.192	312	322
Tank	54	0	0	4.44	30.4	118	0.589	151	177
YardPiping	42	3	4.1	79.4	315	341	0.198	44	44

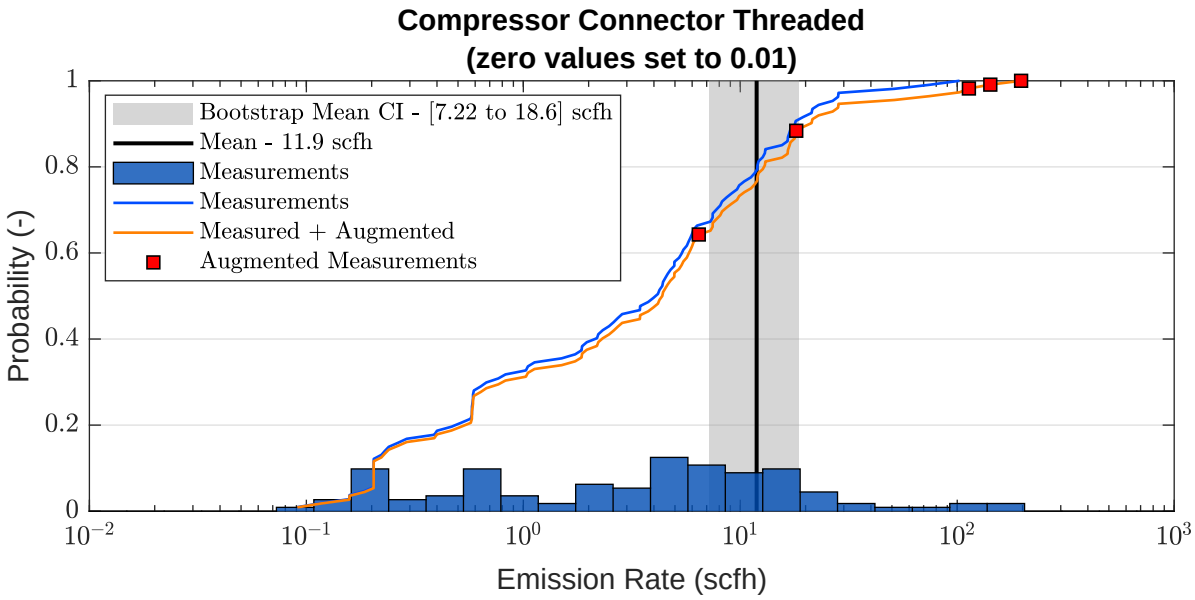

Figure B3: Compressor Connector Threaded

Table B5: Leaker Emission Factor for Compressor Connector Threaded

Gas Type	Data		Statistics (scfh)					Fraction of Emissions Due to Largest 5% of Emitters
	Measured Count	Simulated Count	Min	Lower	Mean	Upper	Max	
WholeGas	107	5	0.0703	7.22	11.9	18.6	1.2×10^3	0.495
CH4	107	5	0.0596	5.98	9.99	15.6	827	0.504

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	107	857 [838 to 876]	65% [50% to 77%]
Cannot Measure	3		
Inaccessible	2		
Incomplete Capture	5	477 [252 to 843]	35% [23% to 50%]
Other	6		
Safety	4		
Total		1.33×10^3 [1.11×10^3 to 1.71×10^3]	

Table B6: Count of Screened and Measured Equipment for *Compressor Connector Threaded*

Equipment Type	Statistics (components per unit)						Top 5%	Units Measured	Units Screened
	Count	Min	Lower	Mean	Upper	Max			
Compressor	286	10	28	140	364	614	0.128	432	462

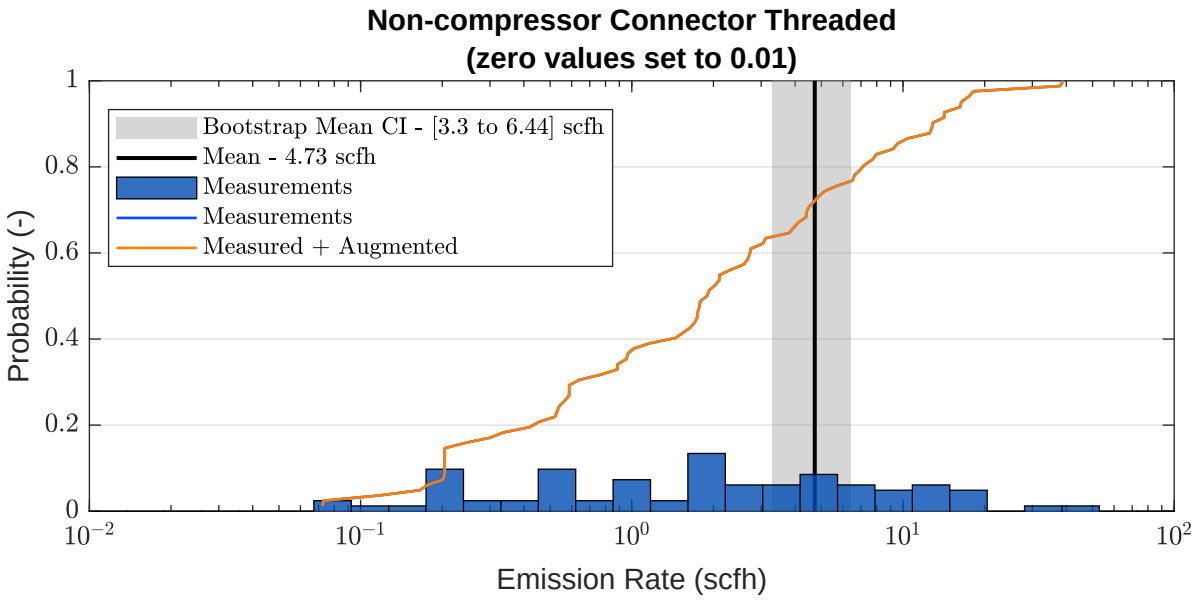

Figure B4: Non-compressor Connector Threaded

Table B7: Leaker Emission Factor for Non-compressor Connector Threaded

Gas Type	Data		Statistics (scfh)					Fraction of Emissions Due to Largest 5% of Emitters
	Measured Count	Simulated Count	Min	Lower	Mean	Upper	Max	
WholeGas	82	0	0.0562	3.3	4.73	6.44	47.6	0.295
CH4	82	0	0.0496	2.82	4.08	5.62	43.9	0.31

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	82	387 [378 to 396]	100% [100% to 100%]
Exceeded Capacity	1		
Other	3		
Total		387 [378 to 396]	

Table B8: Count of Screened and Measured Equipment for *Non-compressor Connector Threaded*

Equipment Type	Statistics (components per unit)						Top 5%	Units Measured	Units Screened
	Count	Min	Lower	Mean	Upper	Max			
AGRU	7	54	54	128	326	326	-	8	8
Dehydrator	63	0	19.3	128	324	329	0.126	119	126
Separator	184	0	1.1	31.3	121	269	0.222	312	322
Tank	54	0	4.25	35.4	171	210	0.233	151	177
YardPiping	42	9	13.4	167	742	849	0.222	44	44

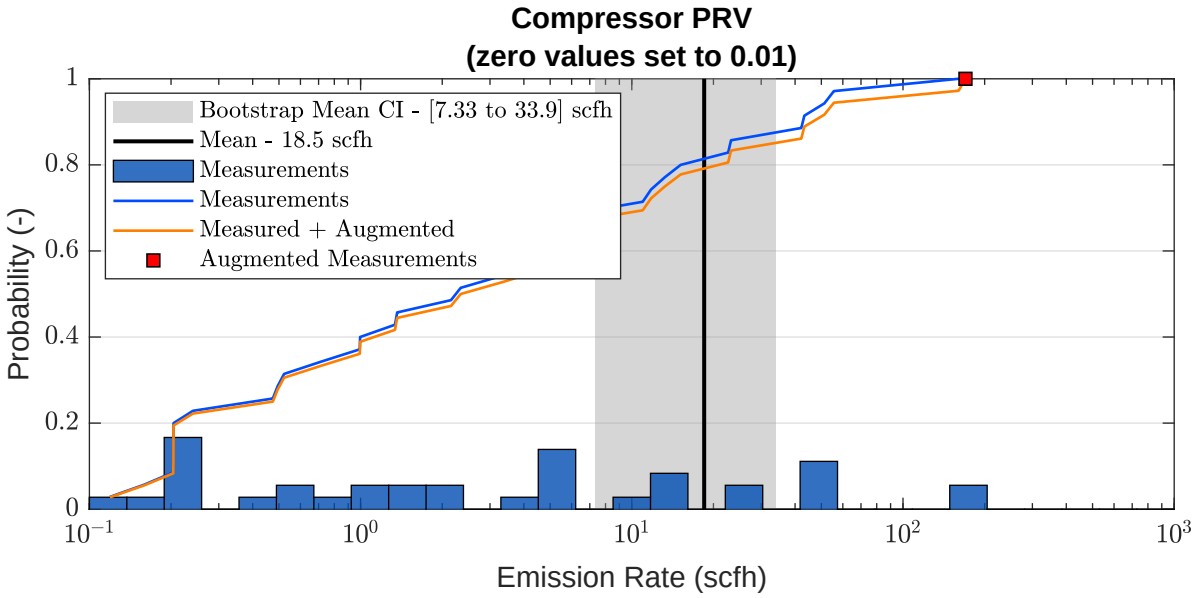

Figure B5: Compressor PRV

Table B9: Leaker Emission Factor for Compressor PRV

Gas Type	Data		Statistics (scfh)					Fraction of Emissions Due to Largest 5% of Emitters
	Measured Count	Simulated Count	Min	Lower	Mean	Upper	Max	
WholeGas	35	1	0.0907	7.33	18.5	33.9	934	0.45
CH4	35	1	0.0706	6.11	15.9	30.3	939	0.466

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	35	493 [471 to 515]	76% [54% to 91%]
Inaccessible	5		
Incomplete Capture	1	170 [51.6 to 413]	24% [9.5% to 46%]
Other	1		
Total		663 [541 to 911]	

Table B10: Count of Screened and Measured Equipment for *Compressor PRV*

Equipment Type	Statistics (components per unit)						Top 5%	Units Measured	Units Screened
	Count	Min	Lower	Mean	Upper	Max			
Compressor	286	0	0	3.93	7	12	0.0944	432	462

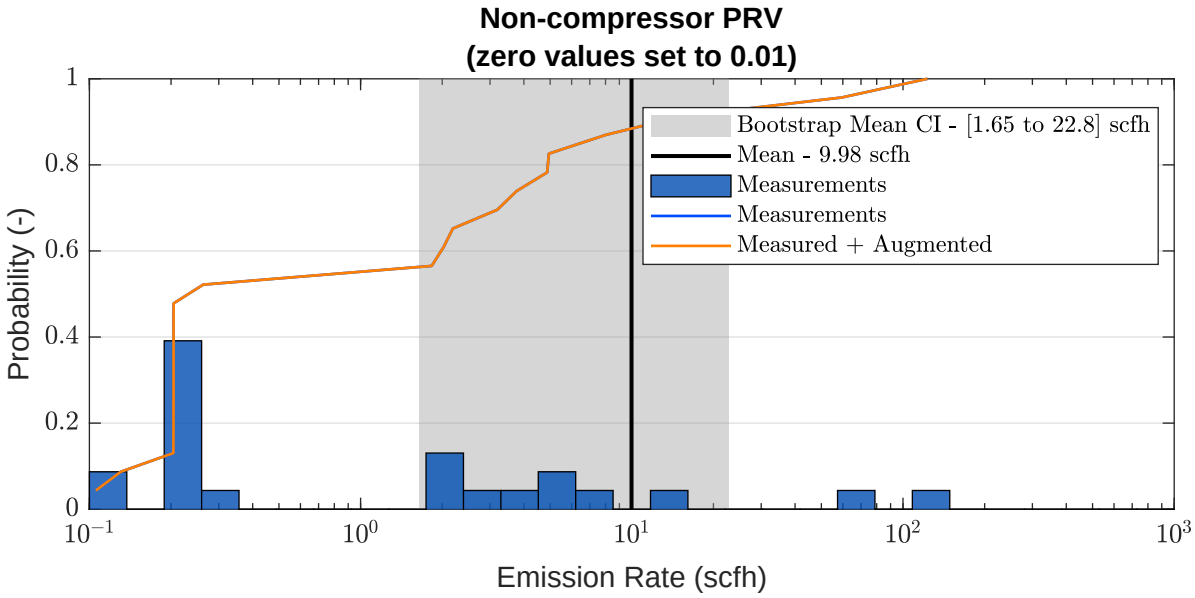

Figure B6: Non-compressor PRV

Table B11: Leaker Emission Factor for Non-compressor PRV

Gas Type	Data		Statistics (scfh)					Fraction of Emissions Due to Largest 5% of Emitters
	Measured Count	Simulated Count	Min	Lower	Mean	Upper	Max	
WholeGas	23	0	0.0837	1.65	9.98	22.8	151	0.571
CH4	23	0	0.0728	1.37	8.88	20.5	140	0.588

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	23	231 [214 to 248]	100% [100% to 100%]
Cannot Measure	1		
Inaccessible	3		
Total		231 [214 to 248]	

Table B12: Count of Screened and Measured Equipment for *Non-compressor PRV*

Equipment Type	Statistics (components per unit)						Top 5%	Units Measured	Units Screened
	Count	Min	Lower	Mean	Upper	Max			
AGRU	7	3	3	5	10	10	-	8	8
Dehydrator	63	0	0	2.54	5.92	6	0.111	119	126
Separator	184	0	0	1.2	3	13	0.22	312	322
Tank	54	0	0	1.63	5.6	9	0.191	151	177
YardPiping	42	0	0	2.4	10.7	14	0.225	44	44

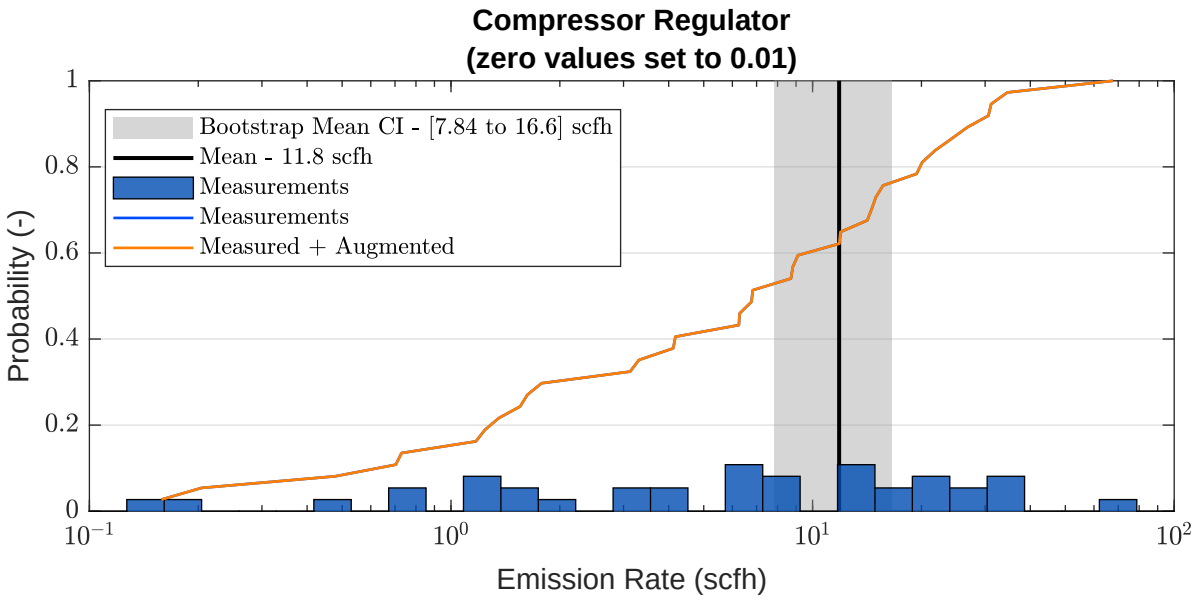

Figure B7: Compressor Regulator

Table B13: Leaker Emission Factor for Compressor Regulator

Gas Type	Data		Statistics (scfh)					Fraction of Emissions Due to Largest 5% of Emitters
	Measured Count	Simulated Count	Min	Lower	Mean	Upper	Max	
WholeGas	37	0	0.122	7.84	11.8	16.6	85.1	0.222
CH4	37	0	0.0915	6.38	9.42	12.9	51.3	0.19

Table B14: Count of Screened and Measured Equipment for *Compressor Regulator*

Equipment Type	**Statistics (components per unit)**						**Top 5%**	**Units Measured**	**Units Screened**
	Count	**Min**	**Lower**	**Mean**	**Upper**	**Max**			
Compressor	286	0	0	1.52	6	12	0.214	432	462

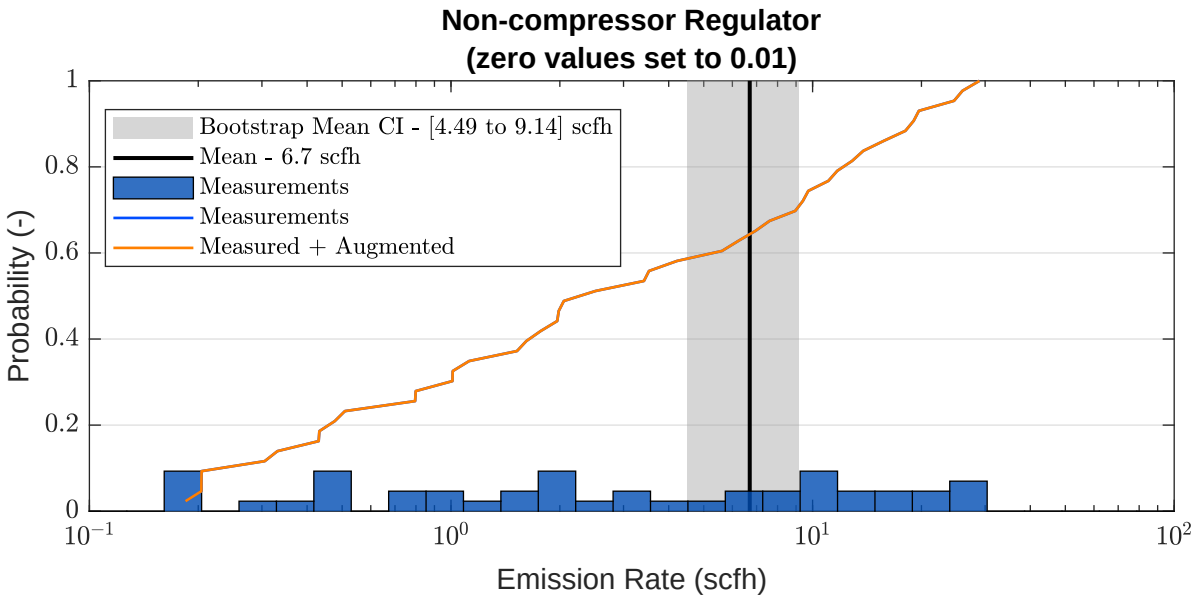

Figure B8: Non-compressor Regulator

Table B15: Leaker Emission Factor for Non-compressor Regulator

Gas Type	Data		Statistics (scfh)					Fraction of Emissions Due to Largest 5% of Emitters
	Measured Count	Simulated Count	Min	Lower	Mean	Upper	Max	
WholeGas	43	0	0.146	4.49	6.7	9.14	36.2	0.203
CH4	43	0	0.121	3.63	5.49	7.6	30.8	0.217

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	43	289 [280 to 297]	100% [100% to 100%]
Other	2		
Safety	1		
Weather	1		
Total		289 [280 to 297]	

Table B16: Count of Screened and Measured Equipment for *Non-compressor Regulator*

Equipment Type	Statistics (components per unit)						Top 5%	Units Measured	Units Screened
	Count	Min	Lower	Mean	Upper	Max			
AGRU	7	0	0	1	7	7	-	8	8
Dehydrator	63	0	0	3.19	10.9	12	0.171	119	126
Separator	184	0	0	0.25	2.9	11	0.722	312	322
Tank	54	0	0	0.37	3	20	1	151	177
YardPiping	42	0	0	1.95	9.45	10	0.239	44	44

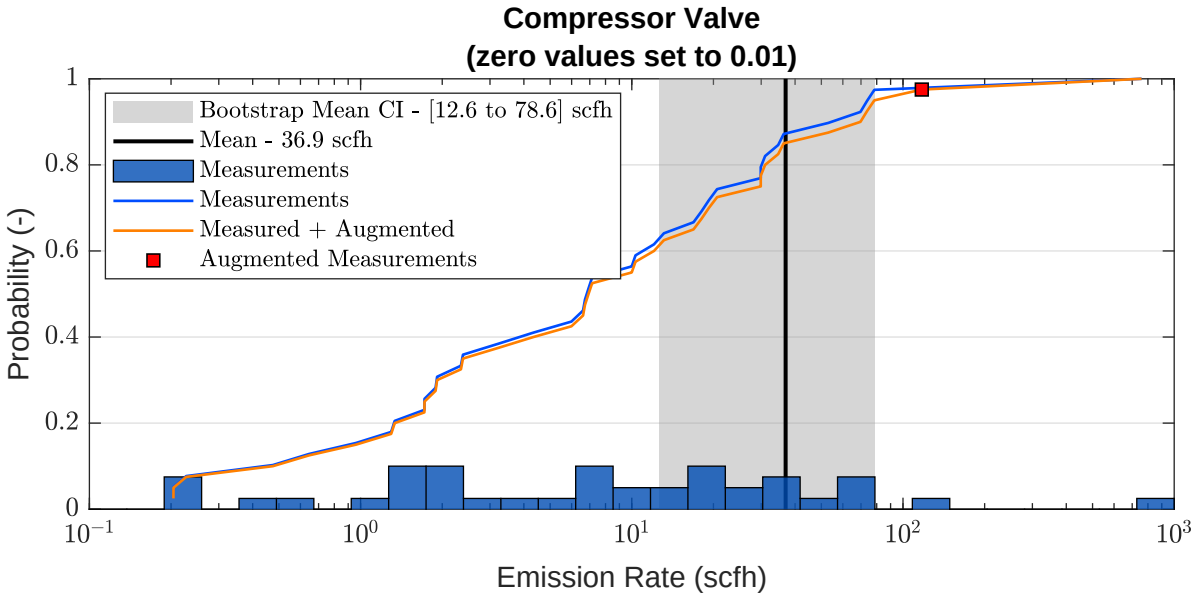

Figure B9: Compressor Valve

Table B17: Leaker Emission Factor for Compressor Valve

Gas Type	Data		Statistics (scfh)					Fraction of Emissions Due to Largest 5% of Emitters
	Measured Count	Simulated Count	Min	Lower	Mean	Upper	Max	
WholeGas	39	1	0.152	12.6	36.9	78.6	919	0.587
CH4	39	1	0.122	10.1	33.4	74.3	940	0.621

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	39	1.37×10^3 [1.28×10^3 to 1.47×10^3]	92% [83% to 97%]
Inaccessible	1	117 [35.8 to 281]	7.7% [2.5% to 17%]
Incomplete Capture	1		
Other	1		
Total		1.49×10^3 [1.36×10^3 to 1.67×10^3]	

Table B18: Count of Screened and Measured Equipment for *Compressor Valve*

Equipment Type	Statistics (components per unit)						Top 5%	Units Measured	Units Screened
	Count	Min	Lower	Mean	Upper	Max			
Compressor	286	0	0	23.6	55	78	0.135	432	462

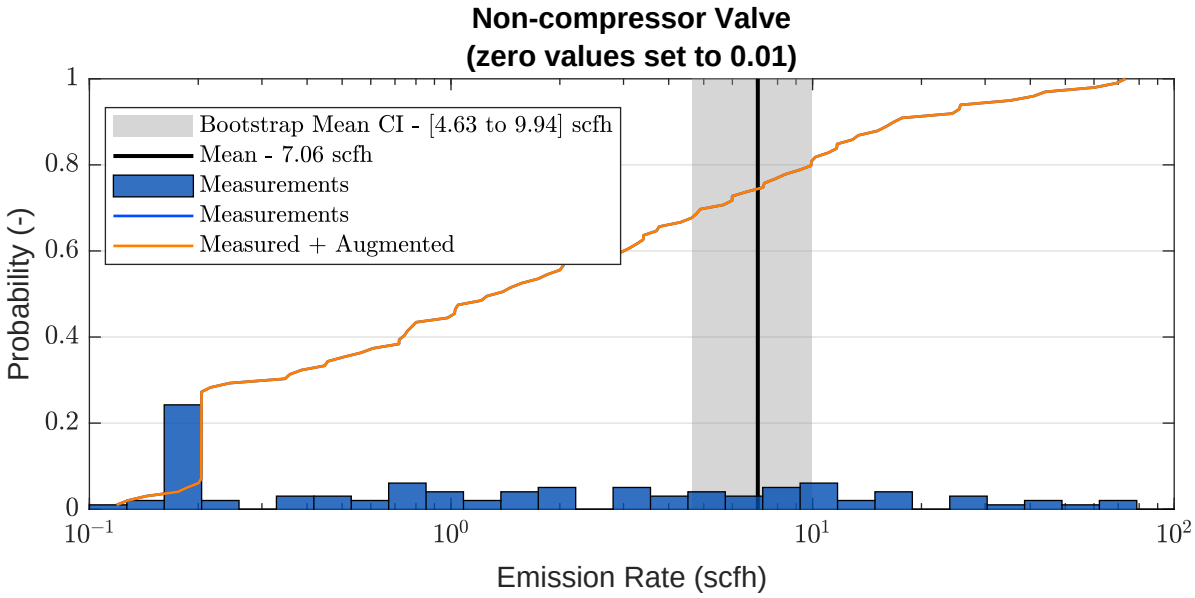

Figure B10: Non-compressor Valve

Table B19: Leaker Emission Factor for Non-compressor Valve

Gas Type	Data		Statistics (scfh)					Fraction of Emissions Due to Largest 5% of Emitters
	Measured Count	Simulated Count	Min	Lower	Mean	Upper	Max	
WholeGas	99	0	0.0901	4.63	7.06	9.94	90.6	0.409
CH4	99	0	0.0687	3.9	5.99	8.43	76.4	0.413

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	99	698 [680 to 716]	100% [100% to 100%]
Inaccessible	2		
Other	14		
Total		698 [680 to 716]	

Table B20: Count of Screened and Measured Equipment for *Non-compressor Valve*

Equipment Type	Statistics (components per unit)						Top 5%	Units Measured	Units Screened
	Count	Min	Lower	Mean	Upper	Max			
AGRU	7	35	35	50.1	85	85	-	8	8
Dehydrator	63	0	0	23.1	58.9	85	0.144	119	126
Separator	184	0	0	11.3	35.9	71	0.175	312	322
Tank	54	0	0	5.13	47.6	91	0.521	151	177
YardPiping	42	0	2.2	57.1	235	258	0.205	44	44

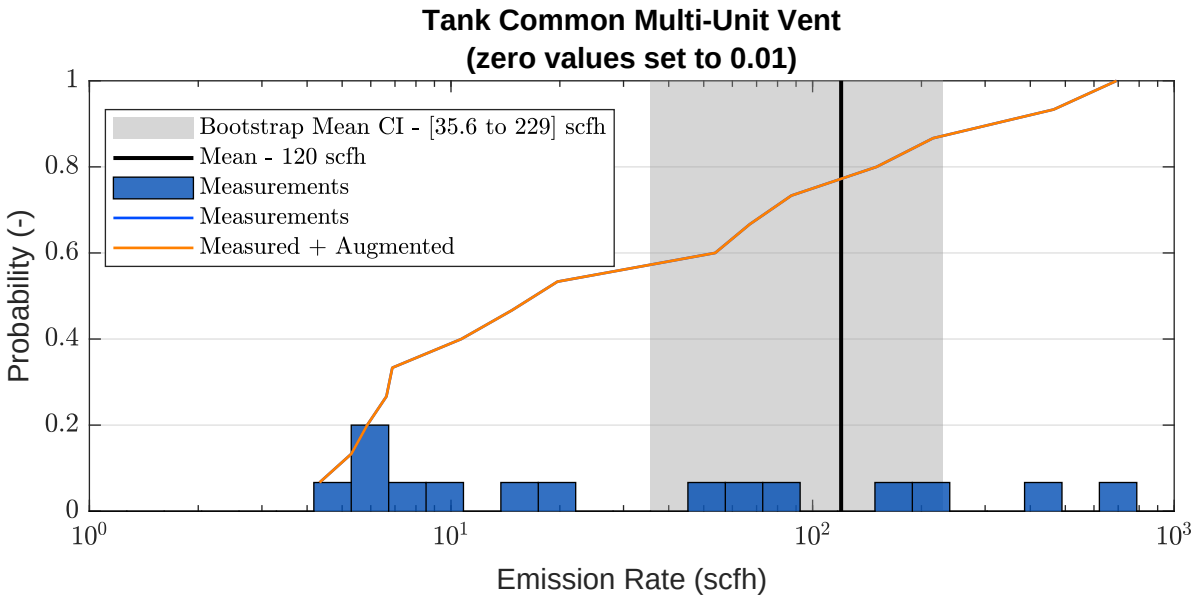

Figure B11: Tank Common Multi-Unit Vent

Table B21: Leaker Emission Factor for Tank Common Multi-Unit Vent

Gas Type	Data		Statistics (scfh)					Fraction of Emissions Due to Largest 5% of Emitters
	Measured Count	Simulated Count	Min	Lower	Mean	Upper	Max	
WholeGas	15	0	3.41	35.6	120	229	861	N/A
CH4	15	0	1.99	29.6	112	224	864	N/A

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	15	1.81×10^3 [1.7×10^3 to 1.91×10^3]	100% [100% to 100%]
Exceeded Capacity	3		
Other	1		
Safety	1		
Total		1.81×10^3 [1.7×10^3 to 1.91×10^3]	

No activity data. Opportunistic measurements only.

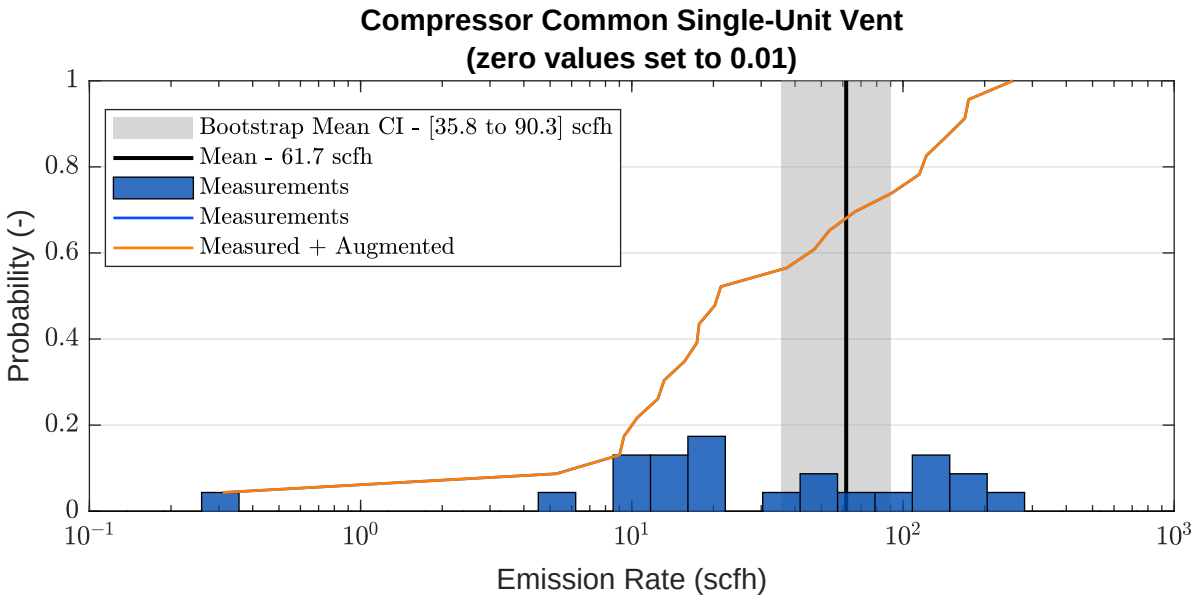

Figure B12: Compressor Common Single-Unit Vent

Table B22: Leaker Emission Factor for Compressor Common Single-Unit Vent

Gas Type	Data		Statistics (scfh)					Fraction of Emissions Due to Largest 5% of Emitters
	Measured Count	Simulated Count	Min	Lower	Mean	Upper	Max	
WholeGas	23	0	0.251	35.8	61.7	90.3	320	0.197
CH4	23	0	0.169	29.5	49.6	73	244	0.197

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	23	1.43×10^3 [1.37×10^3 to 1.48×10^3]	100% [100% to 100%]
Exceeded Capacity	1		
Inaccessible	2		
Other	3		
Total		1.43×10^3 [1.37×10^3 to 1.48×10^3]	

Table B23: Count of Screened and Measured Equipment for *Compressor Common Single-Unit Vent*

Equipment Type	Measured	Screened
Compressor	435	465

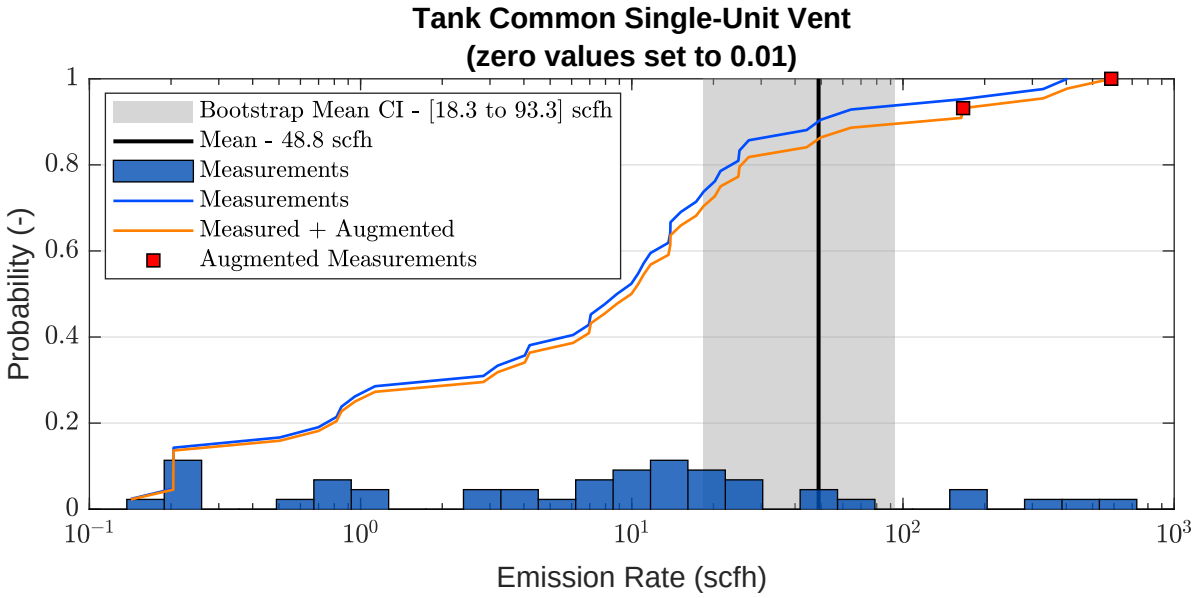

Figure B13: Tank Common Single-Unit Vent

Table B24: Leaker Emission Factor for Tank Common Single-Unit Vent

Gas Type	Data		Statistics (scfh)					Fraction of Emissions Due to Largest 5% of Emitters
	Measured Count	Simulated Count	Min	Lower	Mean	Upper	Max	
WholeGas	42	2	0.111	18.3	48.8	93.3	3.33×10^3	0.498
CH4	42	2	0.0758	15.8	44.4	85.8	3.35×10^3	0.511

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	42	1.37×10^3 [1.3×10^3 to 1.43×10^3]	66% [45% to 82%]
Cannot Measure	1		
Exceeded Capacity	2		
Inaccessible	2		
Incomplete Capture	1	752 [301 to 1.65×10^3]	34% [18% to 55%]
Other	1		
Total		2.12×10^3 [1.66×10^3 to 3.02×10^3]	

Table B25: Count of Screened and Measured Equipment for *Tank Common Single-Unit Vent*

Equipment Type	Measured	Screened
Tank	251	339

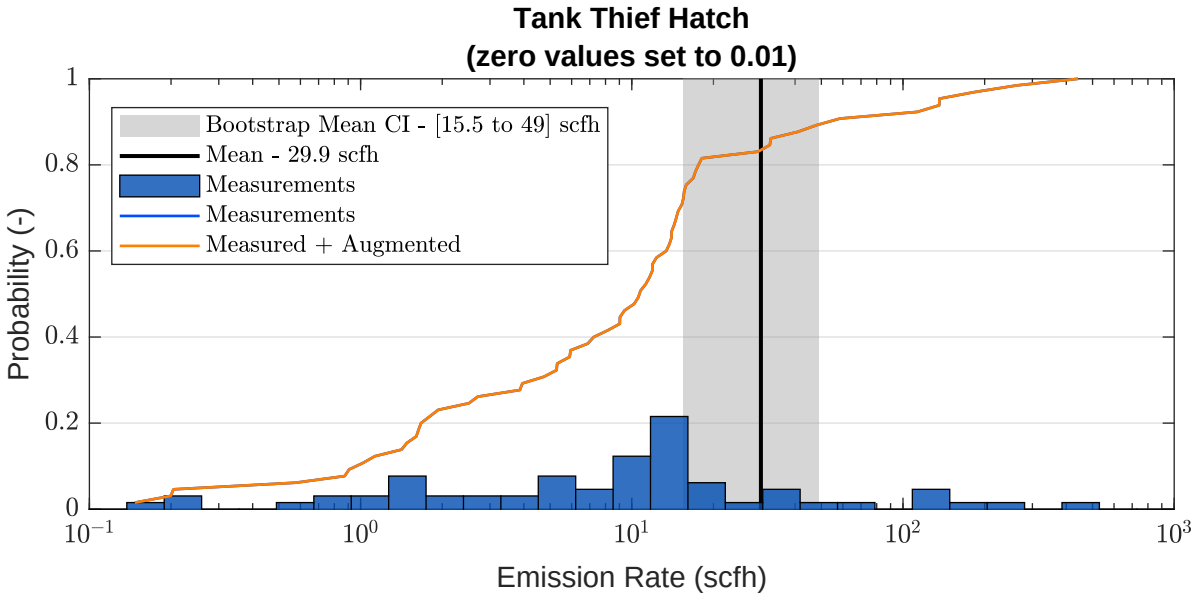

Figure B14: Tank Thief Hatch

Table B26: Leaker Emission Factor for Tank Thief Hatch

Gas Type	Data		Statistics (scfh)					Fraction of Emissions Due to Largest 5% of Emitters
	Measured Count	Simulated Count	Min	Lower	Mean	Upper	Max	
WholeGas	65	0	0.114	15.5	29.9	49	535	0.475
CH4	65	0	0.0637	12.8	26.3	43.5	523	0.497

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	65	1.94×10^3 [1.87×10^3 to 2.01×10^3]	100% [100% to 100%]
Exceeded Capacity	1		
Other	5		
Safety	2		
Weather	8		
Total		1.94×10^3 [1.87×10^3 to 2.01×10^3]	

Table B27: Count of Screened and Measured Equipment for *Tank Thief Hatch*

Equipment Type	Measured	Screened
Tank	251	339

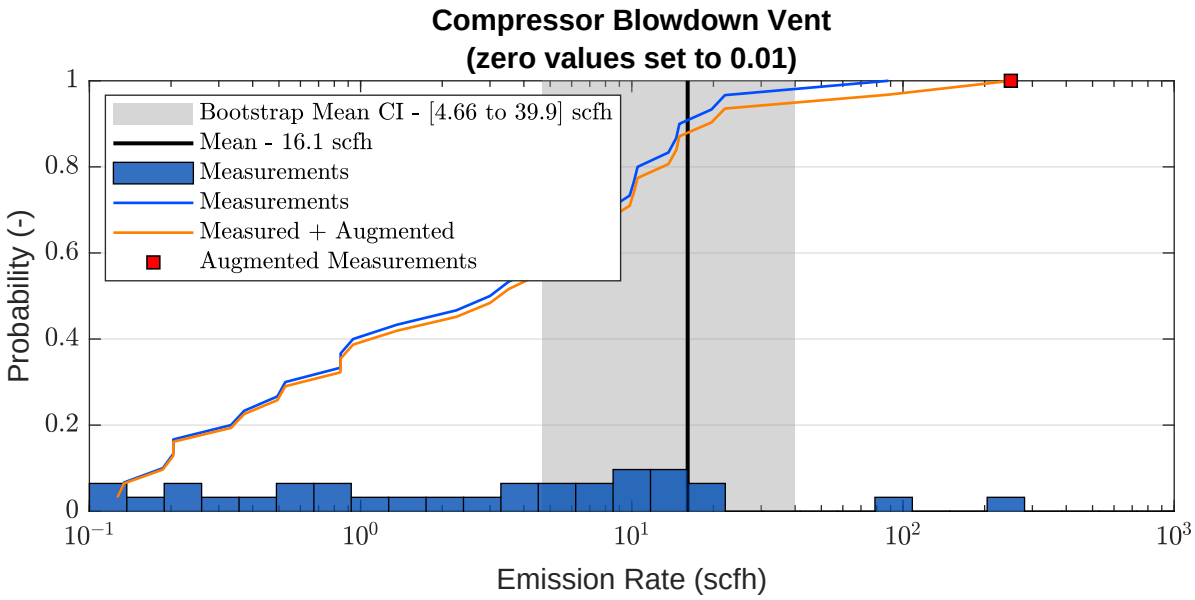

Figure B15: Compressor Blowdown Vent

Table B28: Leaker Emission Factor for Compressor Blowdown Vent

Gas Type	Data: Measured Count	Data: Simulated Count	Statistics (scfh): Min	Lower	Mean	Upper	Max	Fraction of Emissions Due to Largest 5% of Emitters
WholeGas	30	1	0.102	4.66	16.1	39.9	1.3×10^3	0.597
CH4	30	1	0.0707	3.25	11.7	29.1	893	0.598

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	30	250 [239 to 262]	53% [29% to 76%]
Inaccessible	1		
Incomplete Capture	1	250 [78.4 to 624]	47% [24% to 71%]
Other	1		
Safety	3		
Total		500 [328 to 877]	

Table B29: Count of Screened and Measured Equipment for *Compressor Blowdown Vent*

Equipment Type	Measured	Screened
Compressor	435	465

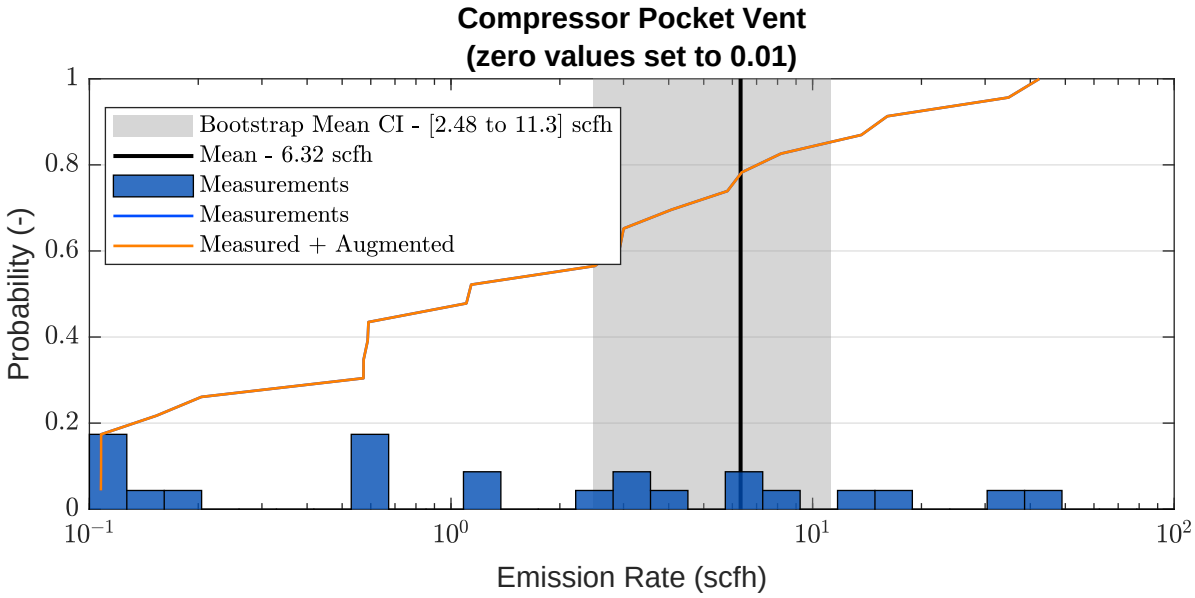

Figure B16: Compressor Pocket Vent

Table B30: Leaker Emission Factor for Compressor Pocket Vent

Gas Type	Data		Statistics (scfh)					Fraction of Emissions Due to Largest 5% of Emitters
	Measured Count	Simulated Count	Min	Lower	Mean	Upper	Max	
WholeGas	23	0	0.08	2.48	6.32	11.3	51.9	0.328
CH4	23	0	0.0685	2.12	5.34	9.69	50.7	0.365

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	23	145 [138 to 152]	100% [100% to 100%]
Inaccessible	3		
Total		145 [138 to 152]	

Table B31: Count of Screened and Measured Equipment for *Compressor Pocket Vent*

Equipment Type	Statistics (components per unit)						Top 5%	Units Measured	Units Screened
	Count	Min	Lower	Mean	Upper	Max			
Compressor	443	2	3	4.18	6	16	0.0922	360	388

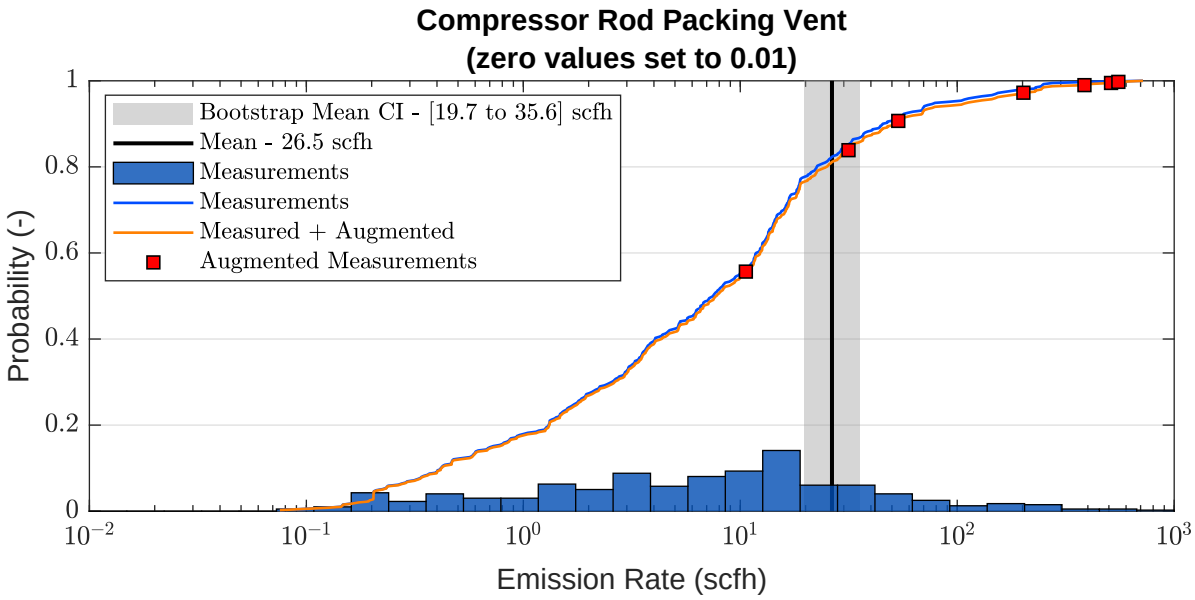

Figure B17: Compressor Rod Packing Vent

Table B32: Leaker Emission Factor for Compressor Rod Packing Vent

Gas Type	Data		Statistics (scfh)					Fraction of Emissions Due to Largest 5% of Emitters
	Measured Count	Simulated Count	Min	Lower	Mean	Upper	Max	
WholeGas	390	7	0.0592	19.7	26.5	35.6	54.1×10^3	0.519
CH4	390	7	0.0489	17.3	23.4	31.6	99.7×10^3	0.542

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	390	8.8×10^3 [8.65×10^3 to 8.94×10^3]	84% [67% to 90%]
Cannot Measure	32		
Exceeded Capacity	1		
Inaccessible	17		
Incomplete Capture	7	1.75×10^3 [952 to 4.39×10^3]	16% [9.8% to 33%]
Other	13		
Safety	5		
Weather	1		
Total		10.5×10^3 [9.73×10^3 to 13.2×10^3]	

Table B33: Count of Screened and Measured Equipment for *Compressor Rod Packing Vent*

Equipment Type	Measured	Screened
Compressor	435	465

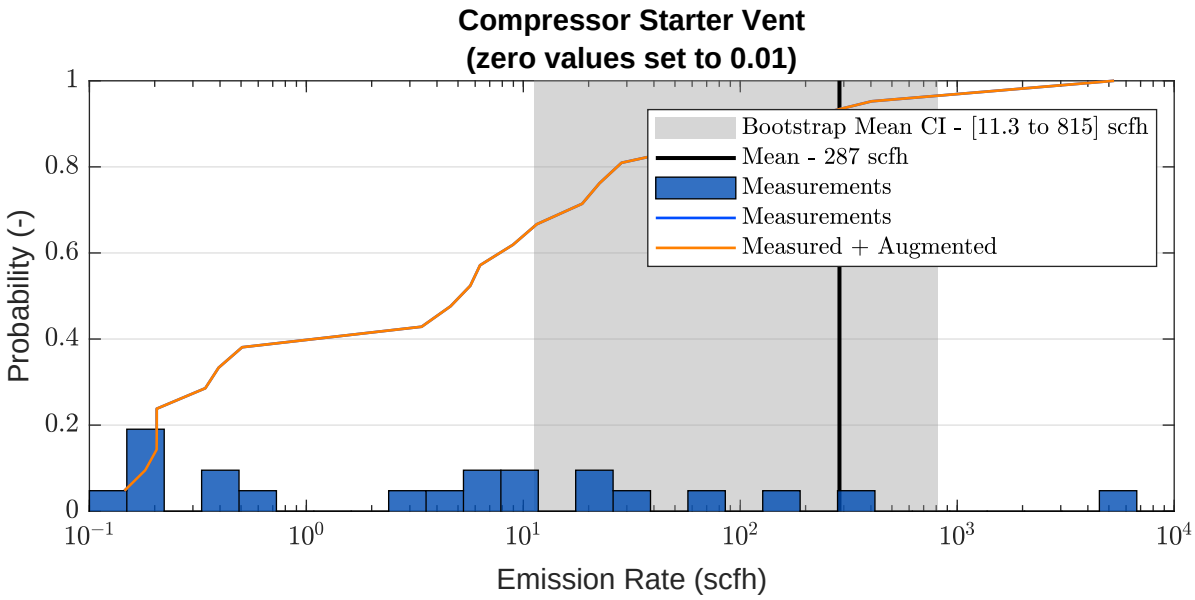

Figure B18: Compressor Starter Vent

Table B34: Leaker Emission Factor for Compressor Starter Vent

Gas Type	Data		Statistics (scfh)					Fraction of Emissions Due to Largest 5% of Emitters
	Measured Count	Simulated Count	Min	Lower	Mean	Upper	Max	
WholeGas	21	0	0.115	11.3	287	815	6.32×10^3	0.878
CH4	21	0	0.0816	7.06	283	811	6.5×10^3	0.889

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	21	6.04×10^3 [5.39×10^3 to 6.68×10^3]	100% [100% to 100%]
Inaccessible	6		
Other	1		
Total		6.04×10^3 [5.39×10^3 to 6.68×10^3]	

No activity data. Opportunistic measurements only.

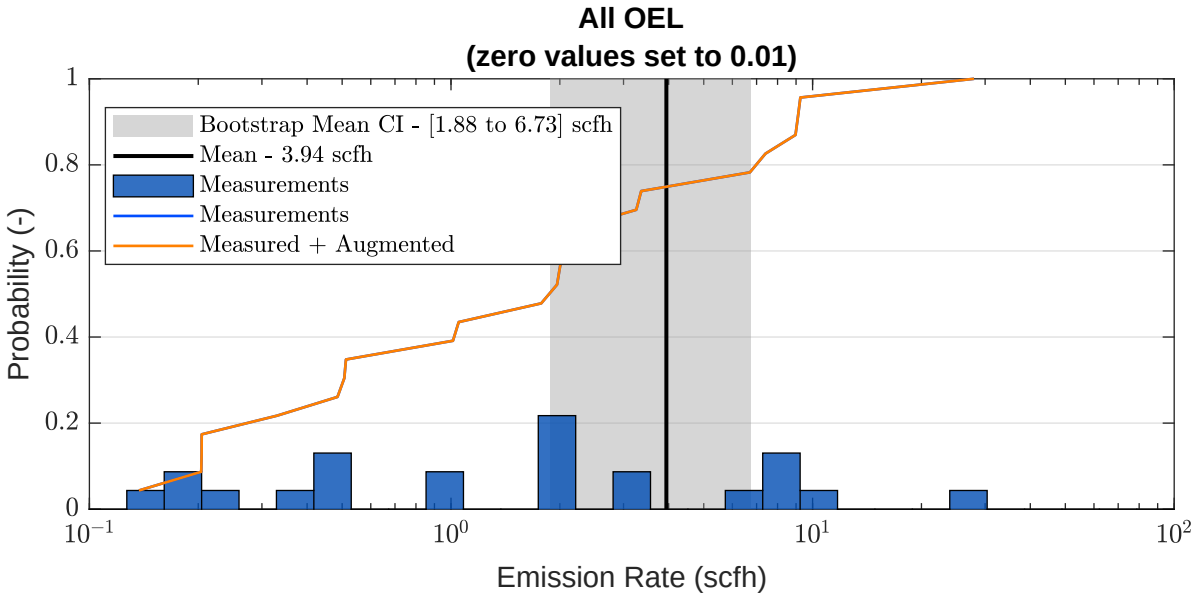

Figure B19: All OEL

Table B35: Leaker Emission Factor for All OEL

Gas Type	Data		Statistics (scfh)					Fraction of Emissions Due to Largest 5% of Emitters
	Measured Count	Simulated Count	Min	Lower	Mean	Upper	Max	
WholeGas	23	0	0.103	1.88	3.94	6.73	34.2	0.324
CH4	23	0	0.0859	1.55	3.22	5.42	28.3	0.317

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	23	90.7 [86.7 to 94.8]	100% [100% to 100%]
Other	1		
Safety	1		
Total		90.7 [86.7 to 94.8]	

Table B36: Count of Screened and Measured Equipment for *All OEL*

Equipment Type	Statistics (components per unit)						Top 5%	Units Measured	Units Screened
	Count	Min	Lower	Mean	Upper	Max			
AGRU	7	0	0	0.571	3	3	-	8	8
Compressor	283	0	0	0.622	6	15	0.589	429	459
Dehydrator	63	0	0	0.46	3	4	0.355	119	126
Separator	182	0	0	0.225	2	3	0.417	310	320
Tank	54	0	0	0.278	3	3	0.54	150	176
YardPiping	42	0	0	0.881	6.7	10	0.386	43	43

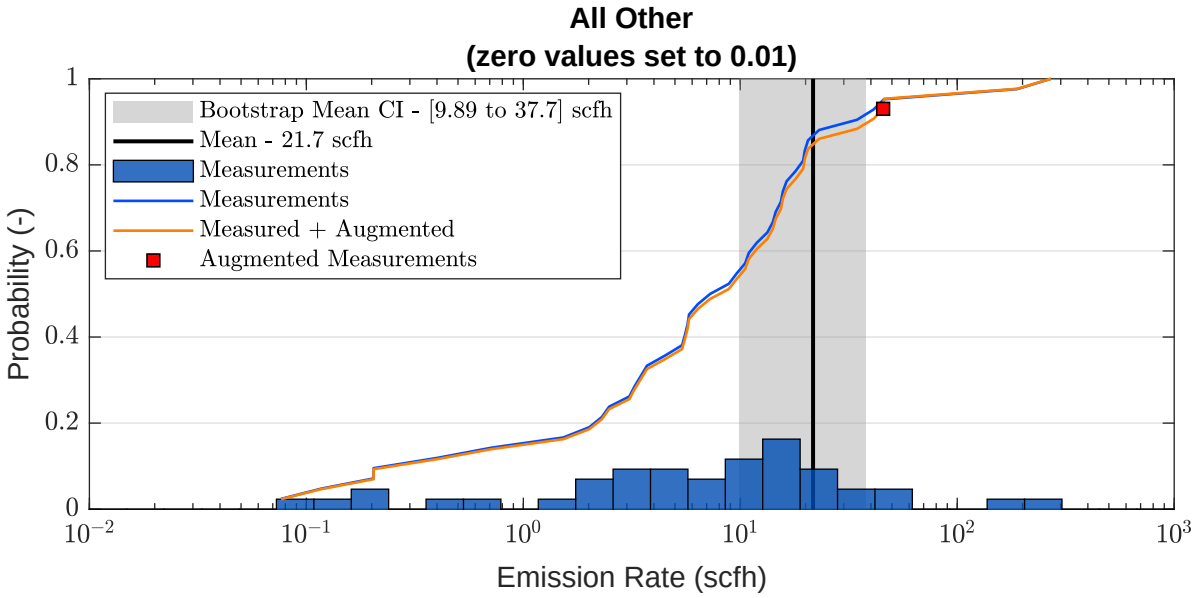

Figure B20: All Other

Table B37: Leaker Emission Factor for All Other

Gas Type	Data		Statistics (scfh)					
	Measured Count	Simulated Count	Min	Lower	Mean	Upper	Max	Fraction of Emissions Due to Largest 5% of Emitters
WholeGas	42	1	0.06	9.89	21.7	37.7	336	0.5
CH4	42	1	0.0551	8.22	18.9	34.5	314	0.53

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	42	887 [845 to 929]	95% [94% to 96%]
Cannot Measure	2		
Inaccessible	4		
Incomplete Capture	1	45.5 [36.7 to 58.8]	4.9% [4% to 6.2%]
Other	9		
Safety	3		
Total		933 [889 to 976]	

No activity data. Opportunistic measurements only.

B.1 Other Leak Measurement Data for Components

This section includes a detailed overview of component categories with too few measurements to develop robust emission factors.

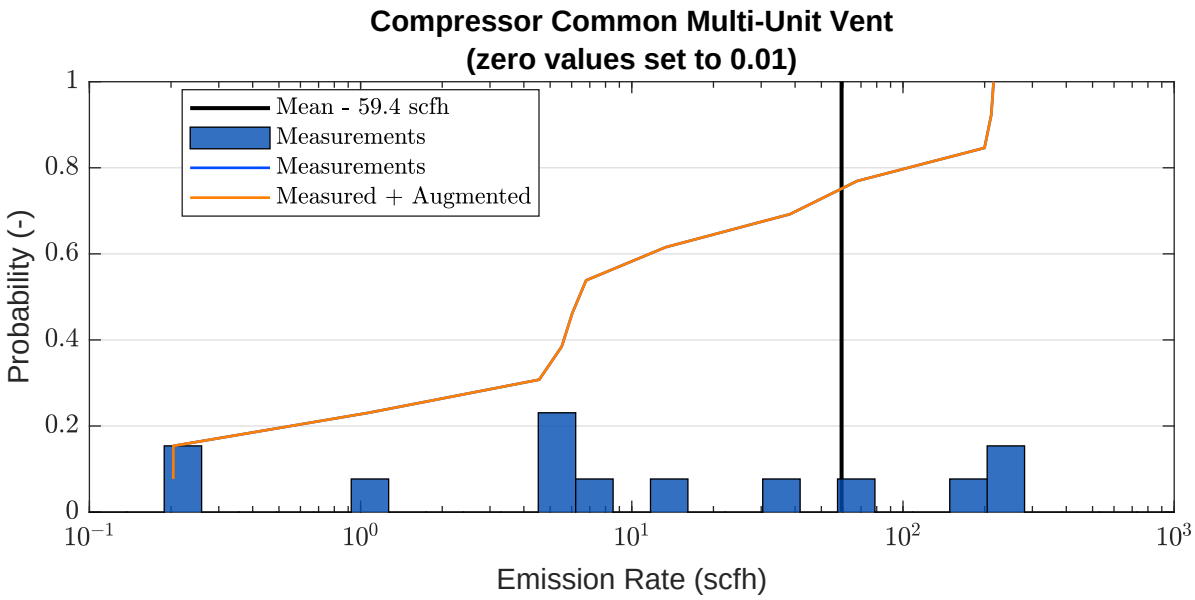

Figure B21: Compressor Common Multi-Unit Vent

Table B38: Leak Data for Compressor Common Multi-Unit Vent

Gas Type	Data		Statistics (scfh)					Fraction of Emissions Due to Largest 5% of Emitters
	Measured Count	Simulated Count	Min	Lower	Mean	Upper	Max	
WholeGas	13	0	0.152	17.1	59.4	108	260	N/A
CH4	13	0	0.151	16	50.7	92.4	228	N/A

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	13	771 [728 to 815]	100% [100% to 100%]
Exceeded Capacity	2		
Inaccessible	2		
Other	2		
Total		771 [728 to 815]	

No activity data. Opportunistic measurements only.

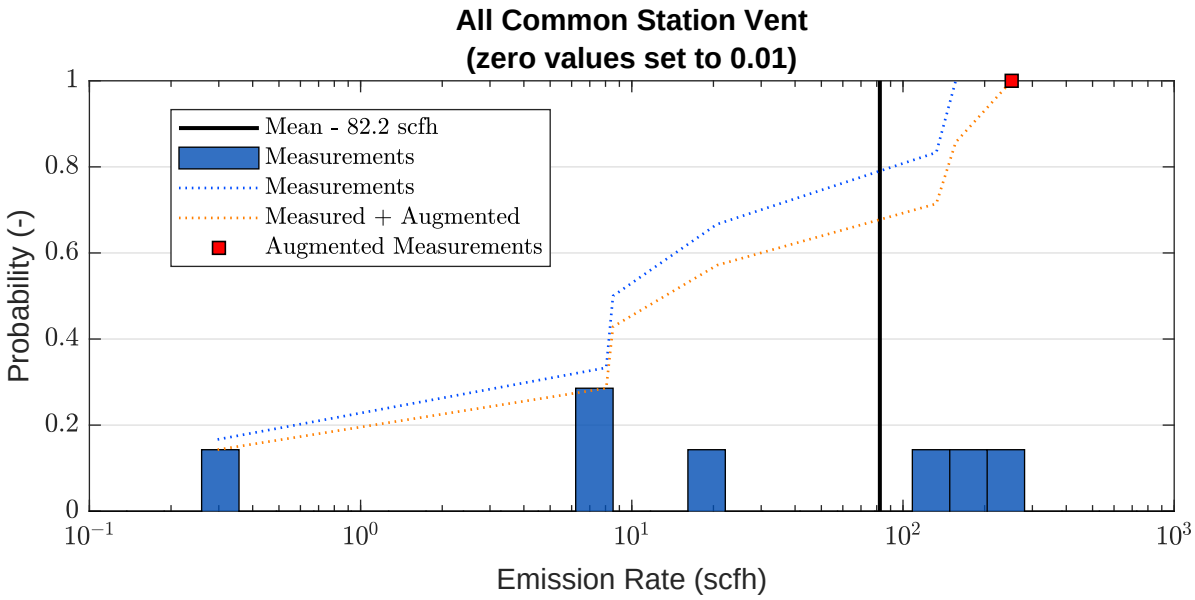

Figure B22: All Common Station Vent

Table B39: Leak Data for All Common Station Vent

Gas Type	Data		Statistics (scfh)					Fraction of Emissions Due to Largest 5% of Emitters
	Measured Count	Simulated Count	Min	Lower	Mean	Upper	Max	
WholeGas	6	1	0.23	23.1	82.2	166	913	N/A
CH4	6	1	0.199	22	73.9	146	759	N/A

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	6	327 [302 to 351]	58% [38% to 70%]
Exceeded Capacity	2		
Inaccessible	1		
Incomplete Capture	1	252 [139 to 539]	42% [30% to 62%]
Other	2		
Total		578 [459 to 870]	

No activity data. Opportunistic measurements only.

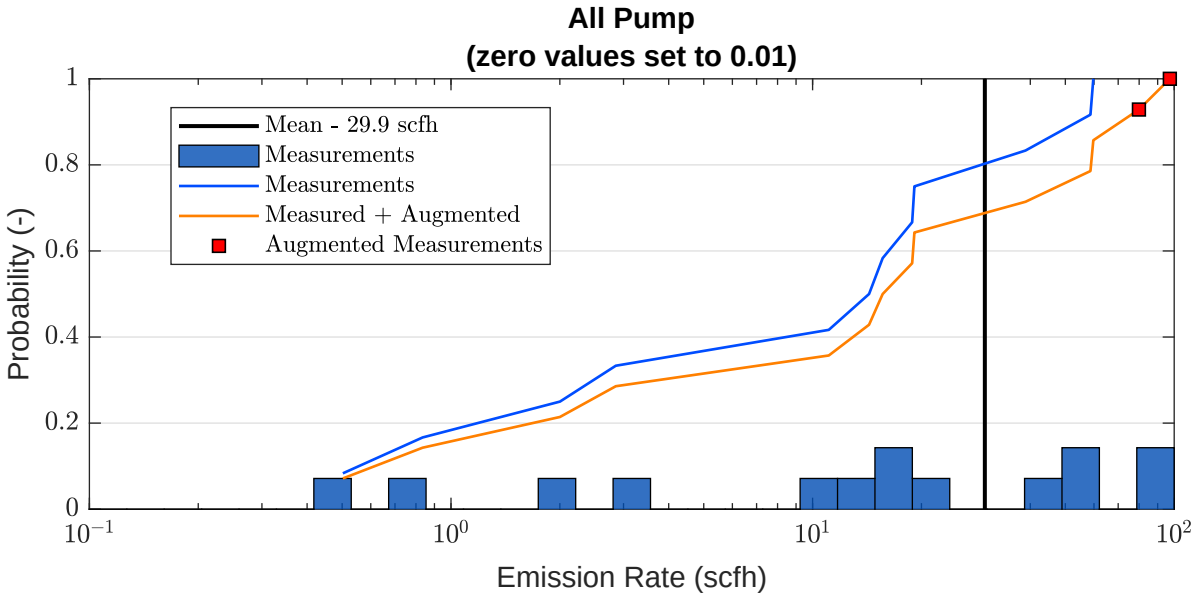

Figure B23: All Pump

Table B40: Leak Data for All Pump

Gas Type	Data		Statistics (scfh)					Fraction of Emissions Due to Largest 5% of Emitters
	Measured Count	Simulated Count	Min	Lower	Mean	Upper	Max	
WholeGas	12	2	0.384	14.3	29.9	52.5	631	N/A
CH4	12	2	0.293	10	22.6	40.1	485	N/A

Unmeasured Sources and Corrections

ID	Count	Total Emissions (scfh)	Fraction of Total
Measured	12	242 [230 to 254]	59% [40% to 77%]
Incomplete Capture	2	177 [74.5 to 357]	41% [23% to 60%]
Other	1		
Total		420 [317 to 601]	

No activity data. Opportunistic measurements only.

References

[1] N. R. Draper and H. Smith, *Applied Regression Analysis*. Wiley, Apr. 1998.