

RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/F ltrl/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 7.307	38.38	PK2	36.4	-26.5	48.28	-	-	74	-25.72	315	125	H
	* 7.306	27.31	MAv1	36.4	-26.5	37.21	54	-16.79	-	-	315	125	H
2	* 11.103	36.12	PK2	37.8	-23.1	50.82	-	-	74	-23.18	285	139	H
	* 11.105	24.92	MAv1	37.8	-23.1	39.62	54	-14.38	-	-	285	139	H
3	* 15.929	35.41	PK2	40.8	-21.2	55.01	-	-	74	-18.99	239	153	H
	* 15.93	24.58	MAv1	40.8	-21.2	44.18	54	-9.82	-	-	239	153	H
4	* 8.27	37.66	PK2	35.8	-26	47.46	-	-	74	-26.54	218	161	V
	* 8.268	26.47	MAv1	35.8	-26	36.27	54	-17.73	-	-	218	161	V
6	* 12.337	36.98	PK2	39.1	-23.1	52.98	-	-	74	-21.02	189	184	V
	* 12.339	25.15	MAv1	39.1	-23.1	41.15	54	-12.85	-	-	189	184	V
5	9.531	36.17	PK2	36.8	-23.4	49.57	-	-	74	-24.43	168	244	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

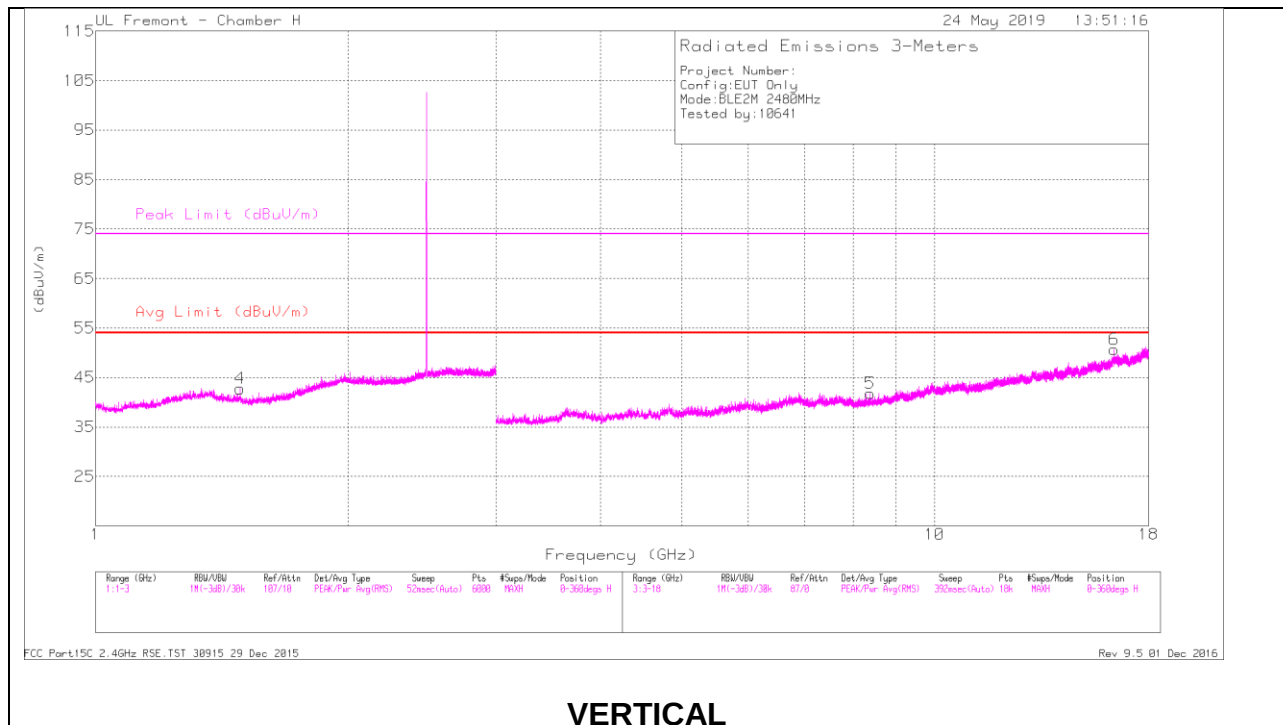
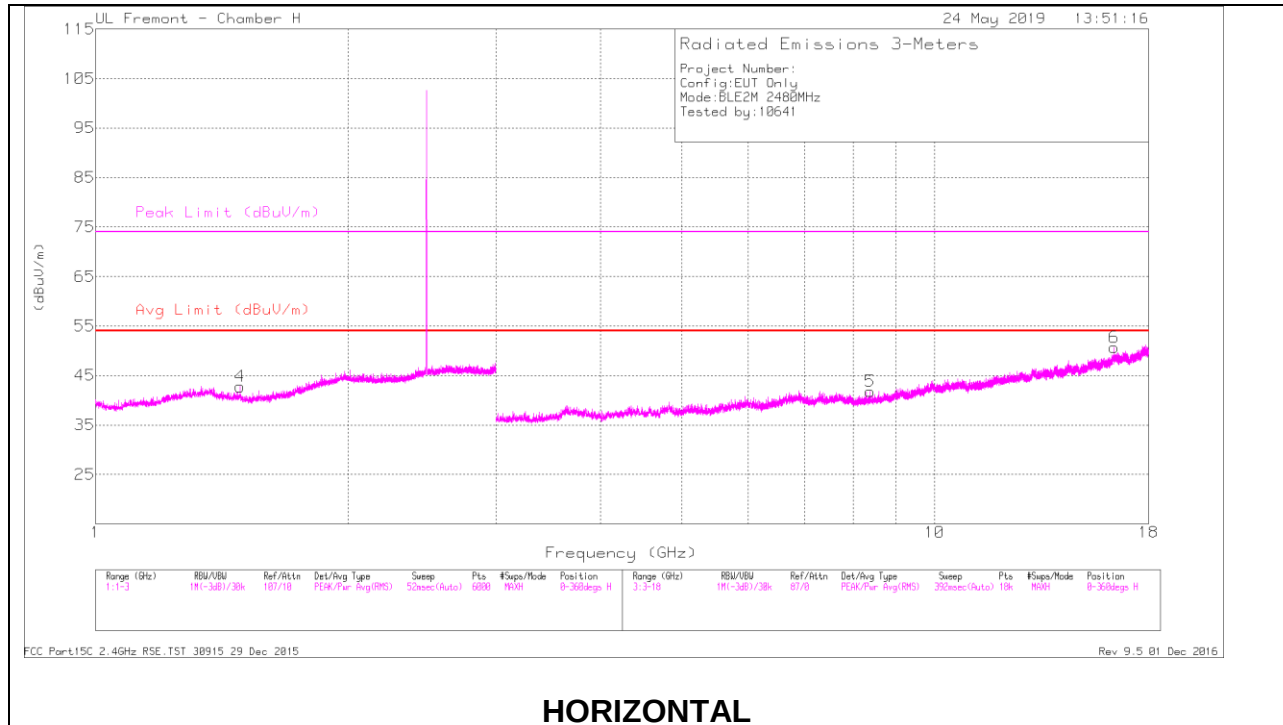
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/F ltrl/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.487	45.13	PK2	28.3	-24.9	48.53	-	-	74	-25.47	56	119	H
	* 1.488	33.34	MAv1	28.3	-24.9	36.74	54	-17.26	-	-	56	119	H
5	* 8.385	37.66	PK2	35.9	-26	47.56	-	-	74	-26.44	81	129	H
	* 8.386	26.72	MAv1	35.9	-26	36.62	54	-17.38	-	-	81	129	H
1	* 4.822	41.89	PK2	34.1	-30.4	45.59	-	-	74	-28.41	143	158	V
	* 4.823	30.8	MAv1	34.1	-30.3	34.6	54	-19.4	-	-	143	158	V
3	* 7.42	39.21	PK2	36.6	-27.1	48.71	-	-	74	-25.29	226	191	V
	* 7.42	27.25	MAv1	36.6	-27.1	36.75	54	-17.25	-	-	226	191	V
2	9.261	37.92	PK2	36.4	-25	49.32	-	-	74	-24.68	153	255	V
6	16.368	35.85	PK2	41.5	-20.7	56.65	-	-	74	-17.45	192	226	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

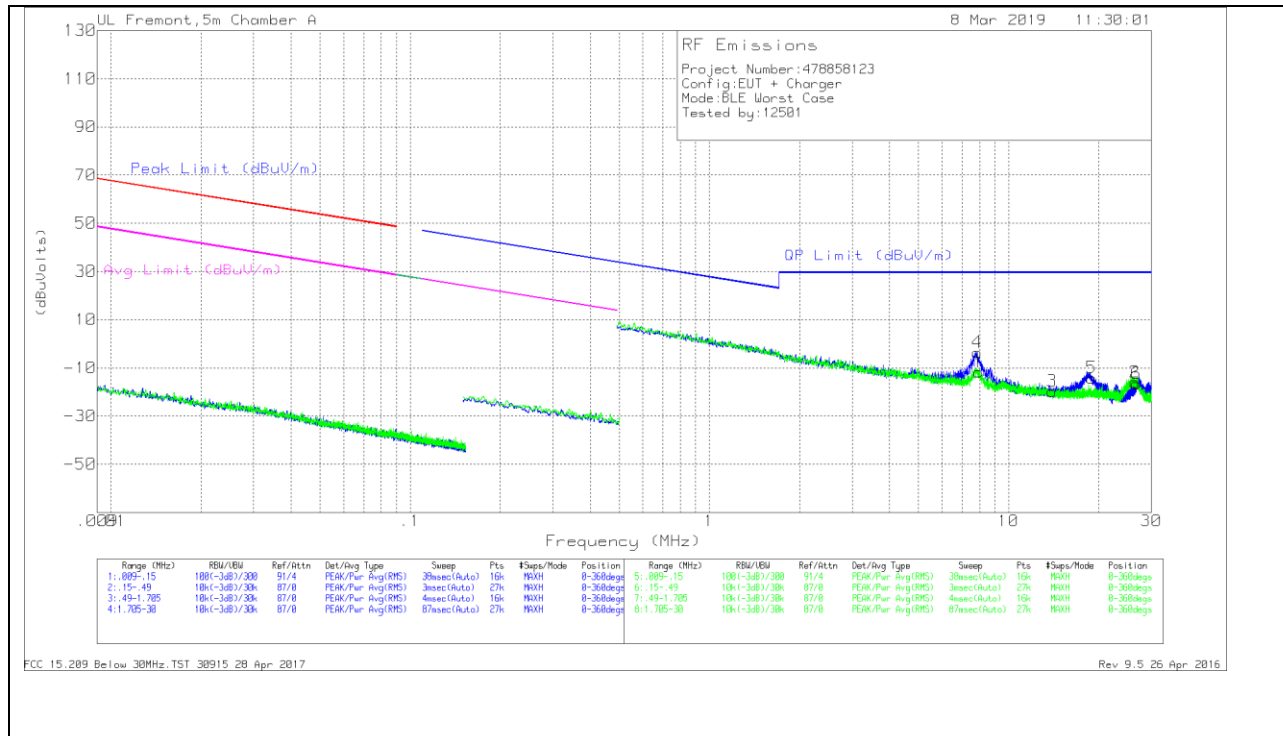
MAv1 - KDB558074 Option 1 Maximum RMS Average

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 01 Dec 2016

9.3. WORST CASE BELOW 30MHZ

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)

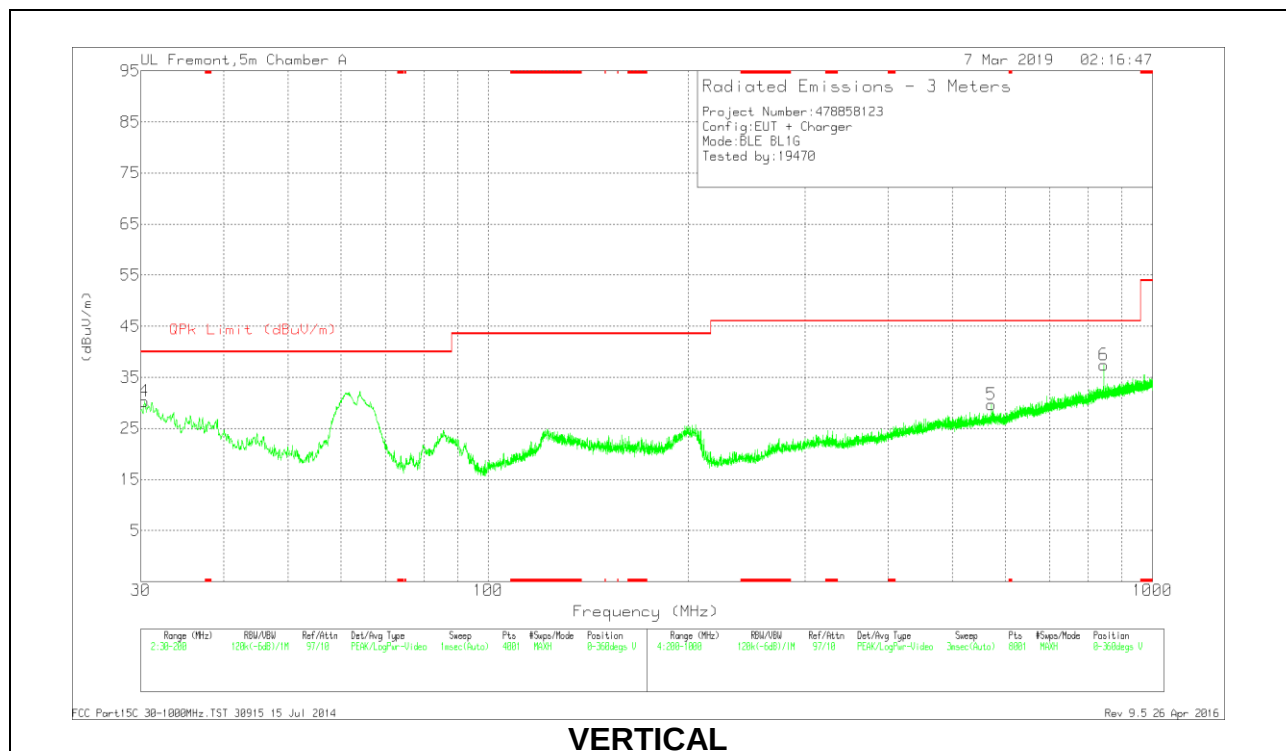
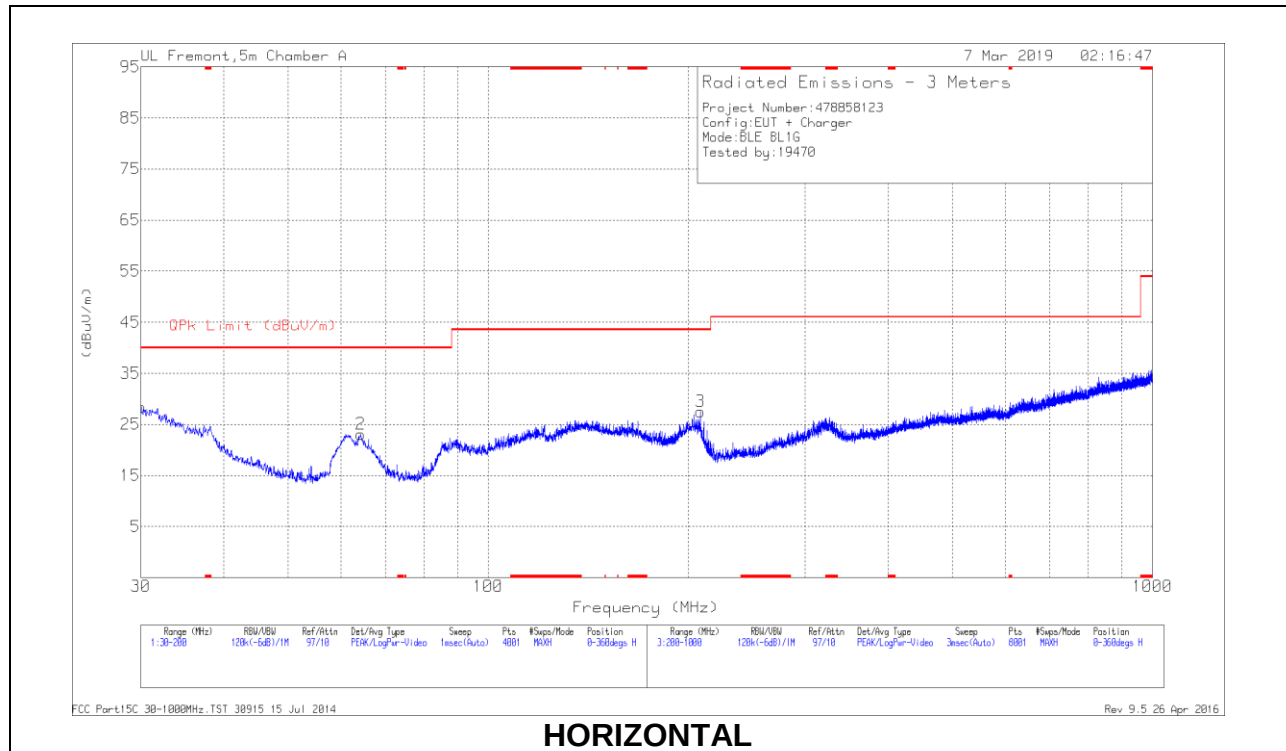


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dBm)	Cables (dB)	Dist Corr 30m	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
4	7.86619	25.13	Pk	10.9	.4	-40	-3.57	29.5	-33.07	0-360
1	7.94322	17.08	Pk	10.9	.4	-40	-11.62	29.5	-41.12	0-360
3	13.96765	9.09	Pk	10.7	.5	-40	-19.71	29.5	-49.21	0-360
5	18.94303	14.91	Pk	10.3	.6	-40	-14.19	29.5	-43.69	0-360
2	26.44566	14.22	Pk	9.1	.7	-40	-15.98	29.5	-45.48	0-360
6	26.69246	13.75	Pk	9	.7	-40	-16.55	29.5	-46.05	0-360

Pk - Peak detector

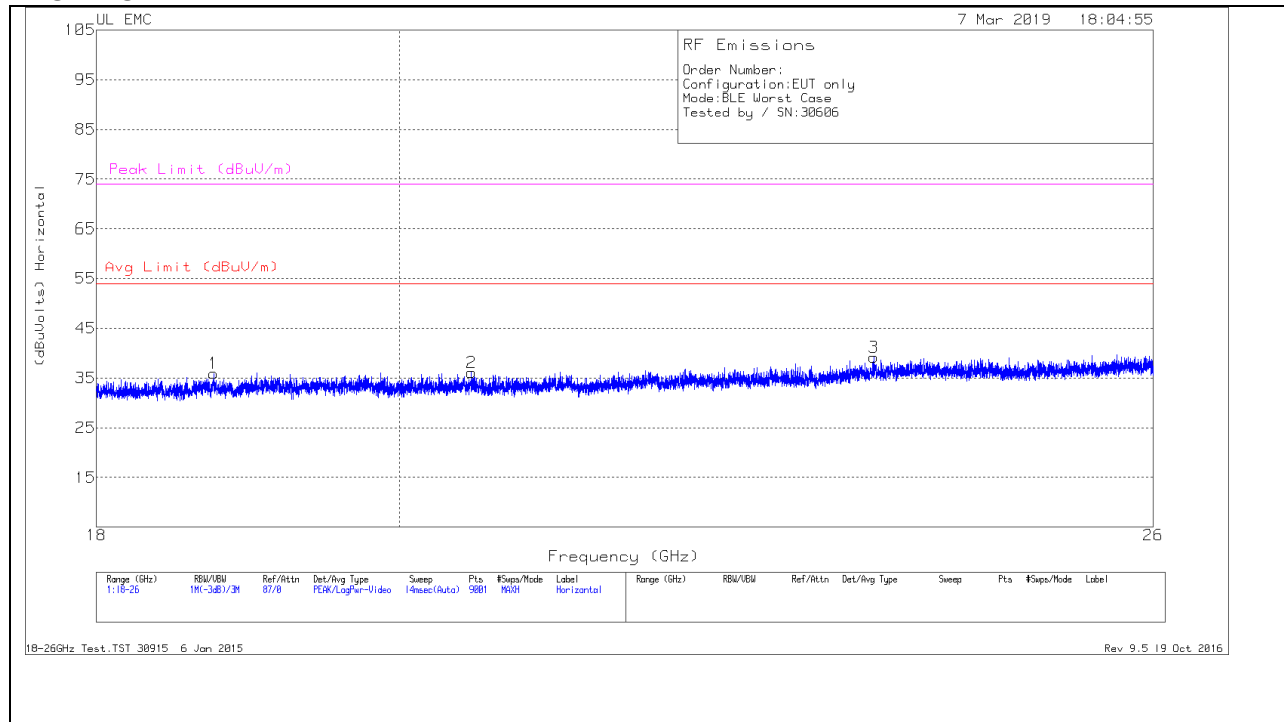
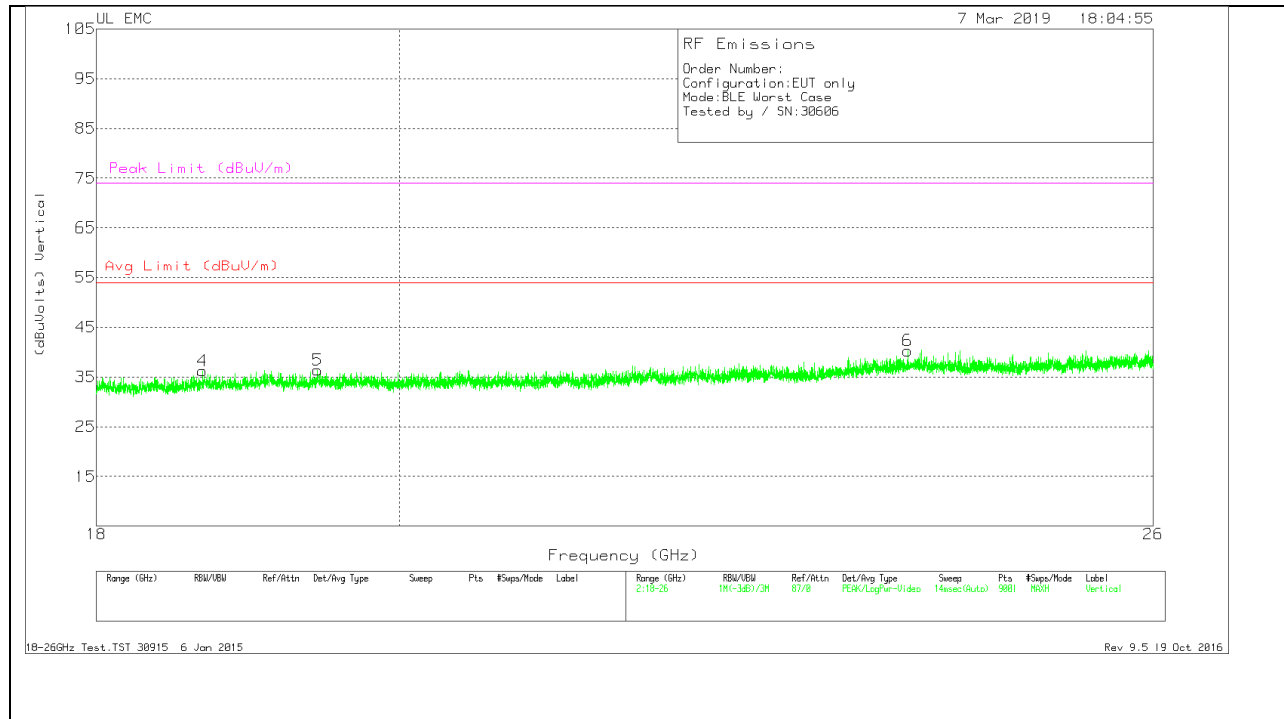
9.4. WORST CASE BELOW 1 GHZ

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



Below 1GHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF PRE0181574 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.0425	28.96	Pk	26.7	-27.3	28.36	40	-11.64	0-360	199	H
4	30.3825	30.98	Pk	26.5	-27.2	30.28	40	-9.72	0-360	100	V
2	64.2975	36.19	Pk	13.7	-26.8	23.09	40	-16.91	0-360	199	H
3	208.7	36.17	Pk	16.3	-25	27.47	43.52	-16.05	0-360	100	H
5	571.7	29.96	Pk	24.5	-24.8	29.66	46.02	-16.36	0-360	299	V
6	844.2	32.72	Pk	27.7	-23	37.42	46.02	-8.6	0-360	299	V

9.5. Worst Case 18-26 GHz**SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION)****HORIZONTAL****VERTICAL**

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T447 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	18.748	37.6	Pk	32.4	-24.6	-9.5	35.9	54	-18.1	74	-38.1
2	20.508	37.8	Pk	33	-25.2	-9.5	36.1	54	-17.9	74	-37.9
3	23.589	38.87	Pk	34.1	-24.3	-9.5	39.17	54	-14.83	74	-34.83
4	18.676	37.91	Pk	32.4	-24.6	-9.5	36.21	54	-17.79	74	-37.79
5	19.439	37.89	Pk	32.8	-24.8	-9.5	36.39	54	-17.61	74	-37.61
6	23.869	39.69	Pk	34.2	-24.1	-9.5	40.29	54	-13.71	74	-33.71

Pk - Peak detector

18-26GHz Test.TST 30915 6 Jan 2015

Rev 9.5 19 Oct 2016

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of emission (MHz)	Conducted limit (dBµV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

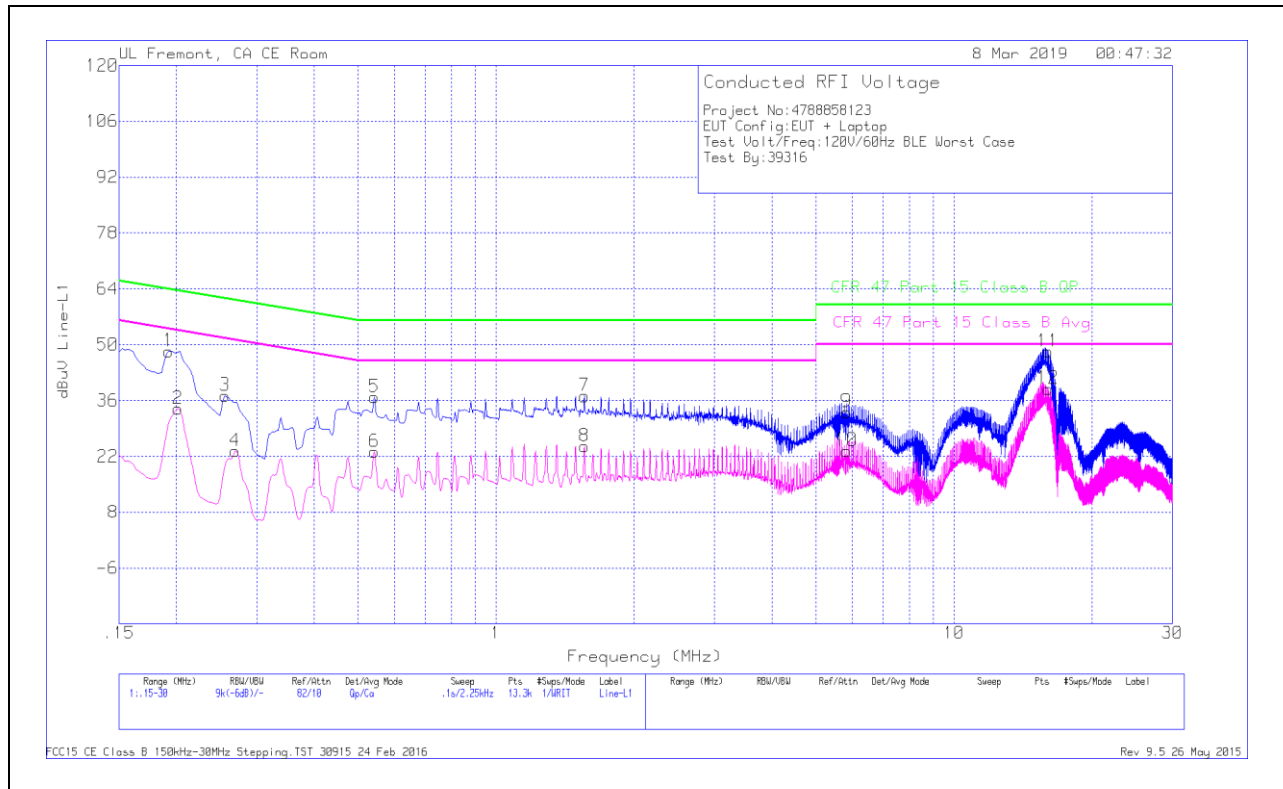
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

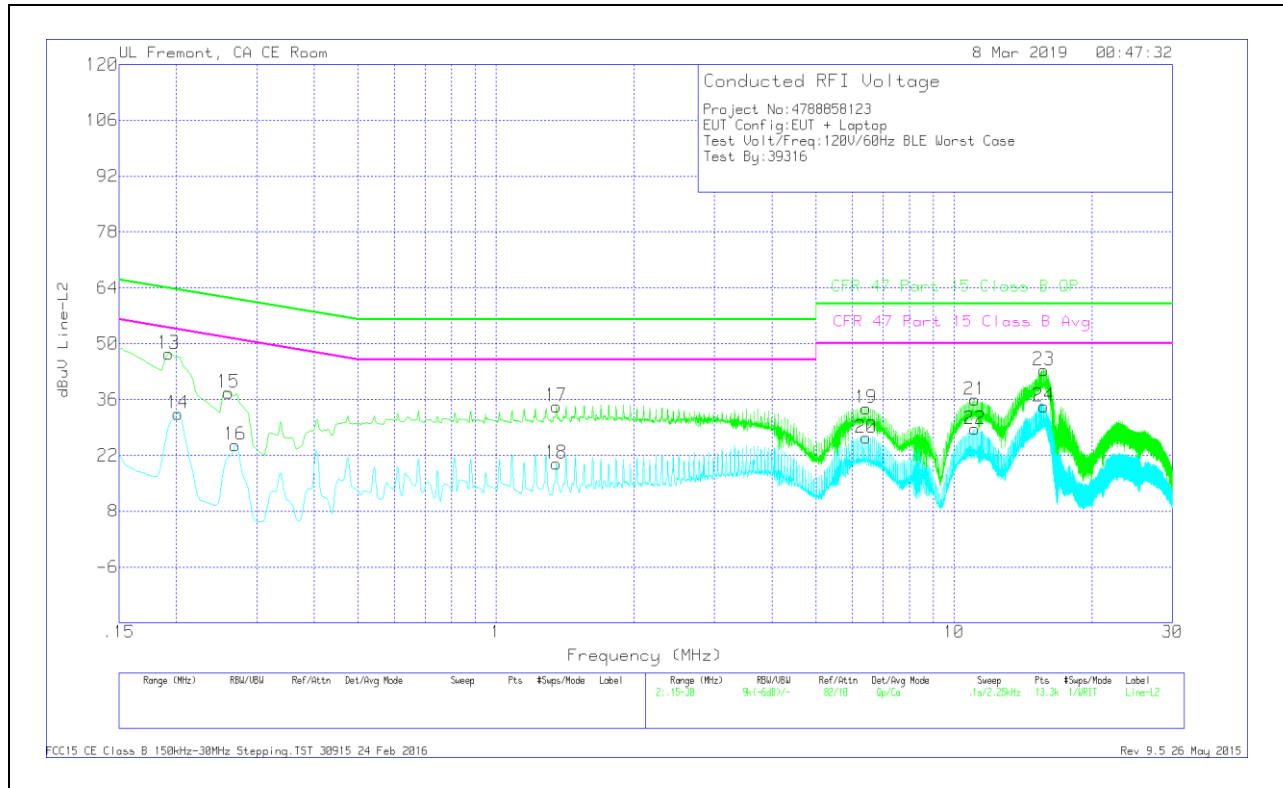
10.1. AC Power Line Host

LINE 1 RESULTS

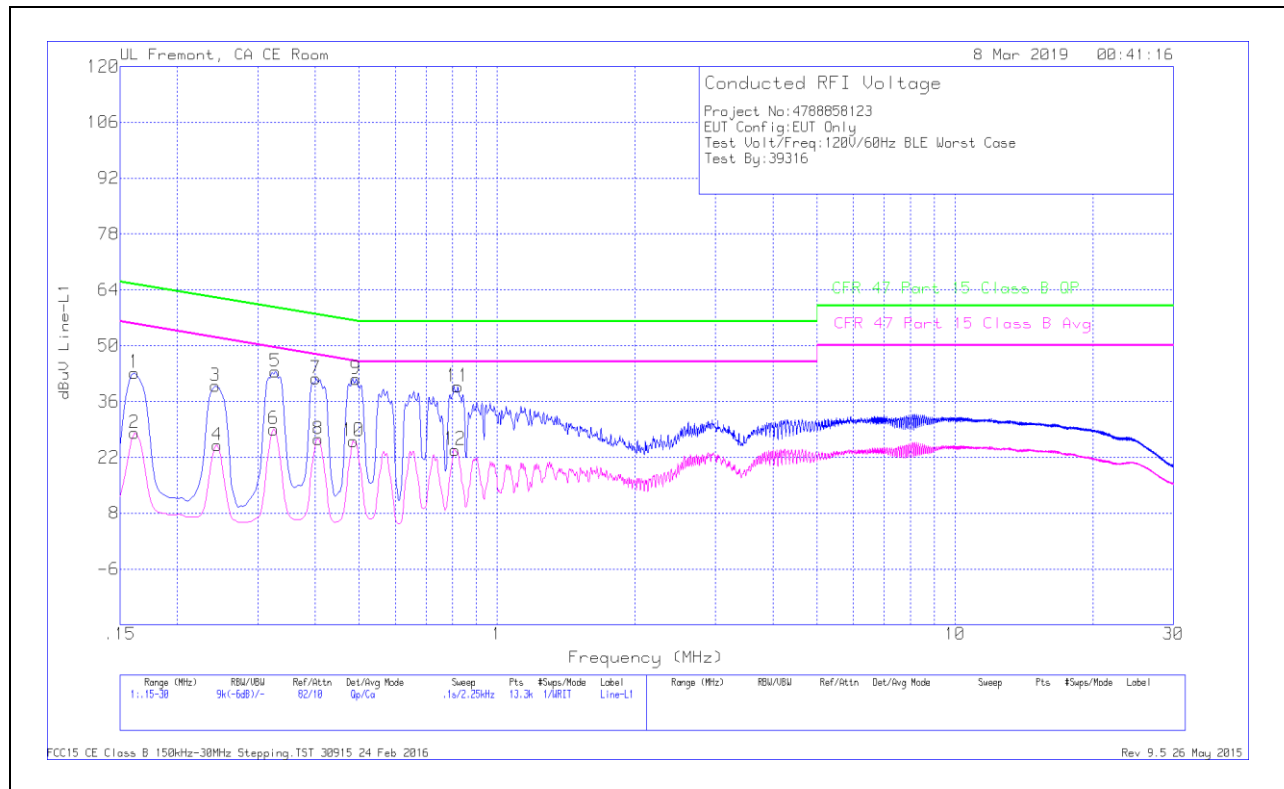


Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.19275	38.24	Qp	0	0	10.1	48.34	63.92	-15.58	-	-
2	.20175	23.84	Ca	0	0	10.1	33.94	-	-	53.54	-19.6
3	.25575	27.11	Qp	0	0	10.1	37.21	61.57	-24.36	-	-
4	.26925	13.24	Ca	0	0	10.1	23.34	-	-	51.14	-27.8
5	.5415	26.71	Qp	0	0	10.1	36.81	56	-19.19	-	-
6	.5415	13.03	Ca	0	0	10.1	23.13	-	-	46	-22.87
7	1.5585	26.92	Qp	0	.1	10.1	37.12	56	-18.88	-	-
8	1.5585	14.28	Ca	0	.1	10.1	24.48	-	-	46	-21.52
9	5.8245	22.72	Qp	0	.2	10.2	33.12	60	-26.88	-	-
10	5.8245	12.98	Ca	0	.2	10.2	23.38	-	-	50	-26.62
11	16.0575	37.56	Qp	.1	.3	10.3	48.26	60	-11.74	-	-
12	16.0575	28.24	Ca	.1	.3	10.3	38.94	-	-	50	-11.06

LINE 2 RESULTS

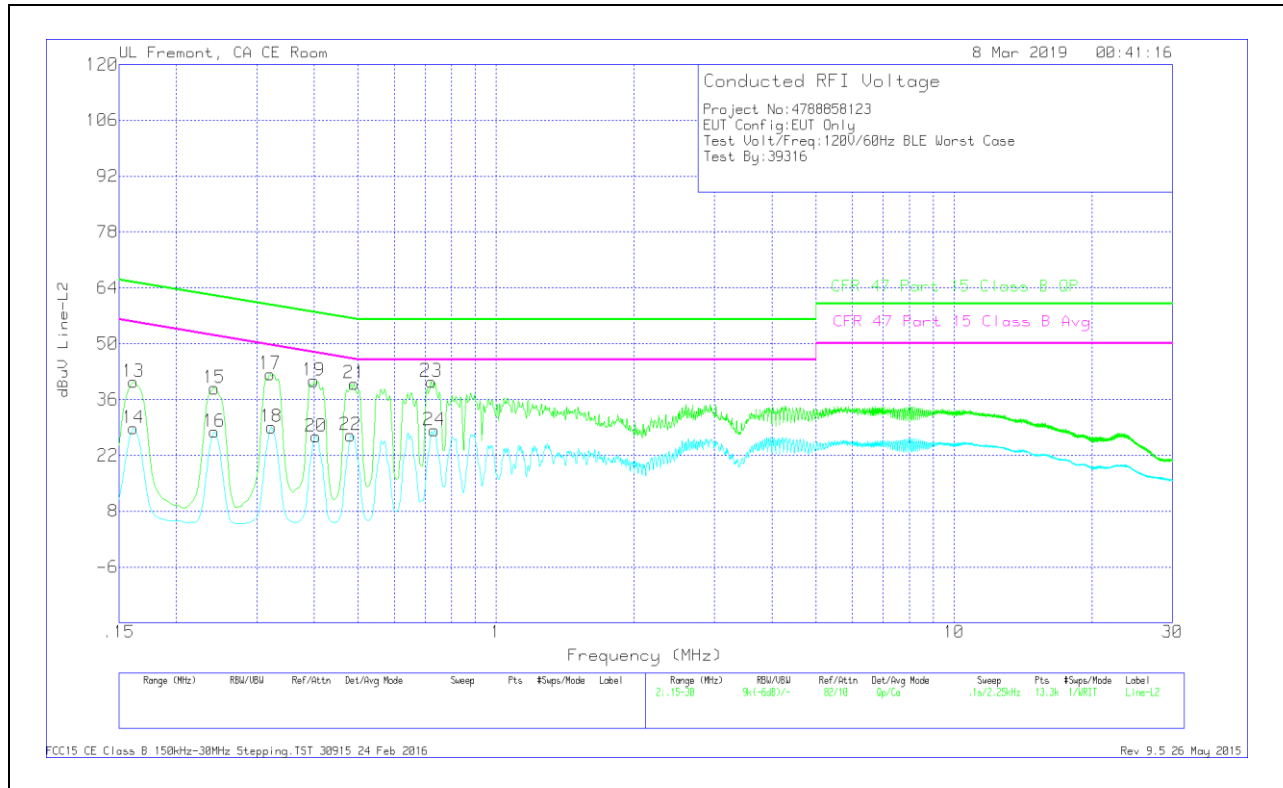


Range 2: Line-L2 15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.19275	37.41	Qp	0	0	10.1	47.51	63.92	-16.41	-	-
14	.20175	22.37	Ca	0	0	10.1	32.47	-	-	53.54	-21.07
15	.26025	27.63	Qp	0	0	10.1	37.73	61.42	-23.69	-	-
16	.26925	14.5	Ca	0	0	10.1	24.6	-	-	51.14	-26.54
17	1.35375	24.12	Qp	0	.1	10.1	34.32	56	-21.68	-	-
18	1.35375	9.75	Ca	0	.1	10.1	19.95	-	-	46	-26.05
19	6.432	23.45	Qp	0	.2	10.2	33.85	60	-26.15	-	-
20	6.432	15.99	Ca	0	.2	10.2	26.39	-	-	50	-23.61
21	11.103	25.47	Qp	.1	.2	10.2	35.97	60	-24.03	-	-
22	11.103	18.14	Ca	.1	.2	10.2	28.64	-	-	50	-21.36
23	15.7065	32.68	Qp	.1	.3	10.3	43.38	60	-16.62	-	-
24	15.7065	23.63	Ca	.1	.3	10.3	34.33	-	-	50	-15.67

10.2. AC Power Line Norm**LINE 1 RESULTS**

Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.16125	33.02	Qp	.1	0	10.1	43.22	65.4	-22.18	-	-
2	.16125	17.87	Ca	.1	0	10.1	28.07	-	-	55.4	-27.33
3	.24225	29.83	Qp	0	0	10.1	39.93	62.02	-22.09	-	-
4	.2445	14.91	Ca	0	0	10.1	25.01	-	-	51.94	-26.93
5	.32775	33.36	Qp	0	0	10.1	43.46	59.51	-16.05	-	-
6	.3255	18.97	Ca	0	0	10.1	29.07	-	-	49.57	-20.5
7	.402	31.67	Qp	0	0	10.1	41.77	57.81	-16.04	-	-
8	.4065	16.44	Ca	0	0	10.1	26.54	-	-	47.72	-21.18
9	.492	31.59	Qp	0	0	10.1	41.69	56.13	-14.44	-	-
10	.48525	15.98	Ca	0	0	10.1	26.08	-	-	46.25	-20.17
11	.8205	29.67	Qp	0	0	10.1	39.77	56	-16.23	-	-
12	.80925	13.77	Ca	0	0	10.1	23.87	-	-	46	-22.13

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.16125	30.21	Qp	.1	0	10.1	40.41	65.4	-24.99	-	-
14	.16125	18.6	Ca	.1	0	10.1	28.8	-	-	55.4	-26.6
15	.24225	28.72	Qp	0	0	10.1	38.82	62.02	-23.2	-	-
16	.24225	17.86	Ca	0	0	10.1	27.96	-	-	52.02	-24.06
17	.321	32.28	Qp	0	0	10.1	42.38	59.68	-17.3	-	-
18	.32325	18.97	Ca	0	0	10.1	29.07	-	-	49.62	-20.55
19	.39975	30.62	Qp	0	0	10.1	40.72	57.86	-17.14	-	-
20	.40425	16.6	Ca	0	0	10.1	26.7	-	-	47.77	-21.07
21	.48975	29.89	Qp	0	0	10.1	39.99	56.17	-16.18	-	-
22	.48075	16.91	Ca	0	0	10.1	27.01	-	-	46.33	-19.32
23	.7215	30.36	Qp	0	0	10.1	40.46	56	-15.54	-	-
24	.73275	18.16	Ca	0	0	10.1	28.26	-	-	46	-17.74

END OF TEST REPORT

11. SETUP PHOTOS

Please refer to 12696946-EP1V1 for setup photos