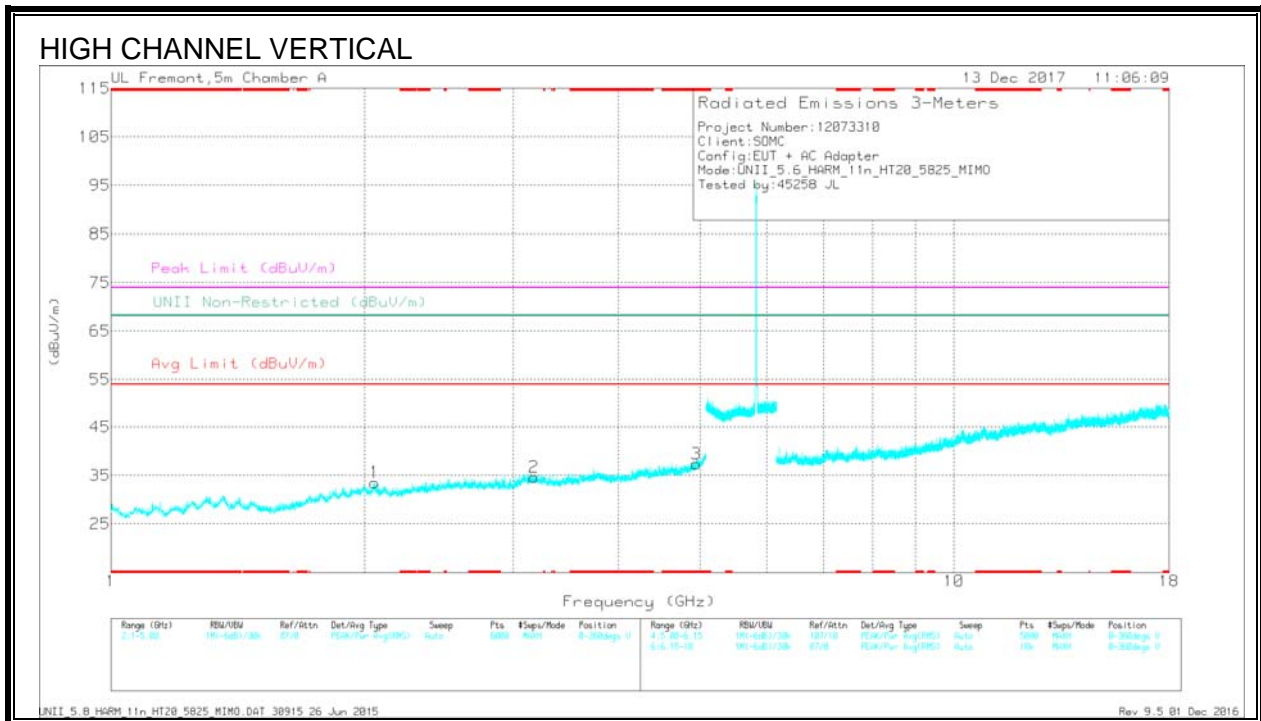
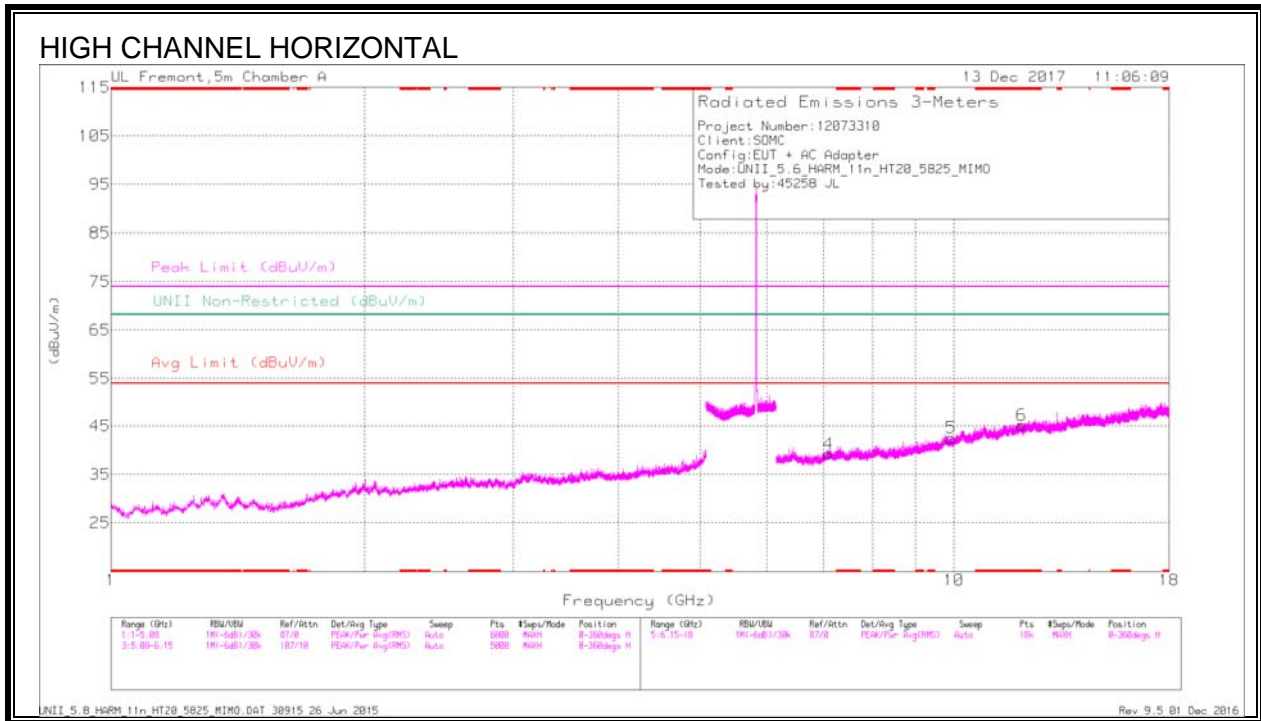


Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.738	36.85	PK-U	34	-27.2	0	43.65	-	-	74	-30.35	-	-	44	137	H
	* 4.738	25.07	ADR	34	-27.2	.11	31.98	54	-22.02	-	-	-	-	44	137	H
4	* 7.324	32.9	PK-U	35.7	-22.7	0	45.9	-	-	74	-28.1	-	-	110	195	V
	* 7.327	22.13	ADR	35.7	-22.7	.11	35.24	54	-18.76	-	-	-	-	110	195	V
6	* 11.642	31.92	PK-U	38.5	-18.9	0	51.52	-	-	74	-22.48	-	-	140	178	V
	* 11.643	20.5	ADR	38.5	-18.9	.11	40.21	54	-13.79	-	-	-	-	140	178	V
1	2.056	38.48	PK-U	31.4	-30.2	0	39.68	-	-	-	-	68.2	-28.52	177	217	H
2	3.164	36.88	PK-U	32.9	-28.6	0	41.18	-	-	-	-	68.2	-27.02	212	185	H
5	9.944	32.66	PK-U	37.2	-20.8	0	49.06	-	-	-	-	68.2	-19.14	252	155	V

* - indicates frequency in CFR47 Pt 15 - Restricted Band
 PK-U - U-NII: Maximum Peak
 ADR - U-NII AD primary method, RMS average



Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.95	37	PK-U	34.2	-26.4	0	44.8	-	-	74	-29.2	-	-	312	150	V
	* 4.951	25.48	ADR	34.2	-26.4	.11	33.39	54	-20.61	-	-	-	-	312	150	V
6	* 12.031	31.86	PK-U	38.9	-18.8	0	51.96	-	-	74	-22.04	-	-	253	200	H
	* 12.033	20.44	ADR	38.9	-18.8	.11	40.65	54	-13.35	-	-	-	-	253	200	H
1	2.053	38.61	PK-U	31.4	-30.1	0	39.91	-	-	-	-	68.2	-28.29	203	233	V
2	3.175	37.13	PK-U	33	-28.8	0	41.33	-	-	-	-	68.2	-26.87	180	251	V
4	7.103	33.05	PK-U	35.7	-23	0	45.75	-	-	-	-	68.2	-22.45	144	225	H
5	9.944	32.66	PK-U	37.2	-20.8	0	49.06	-	-	-	-	68.2	-19.14	252	155	V

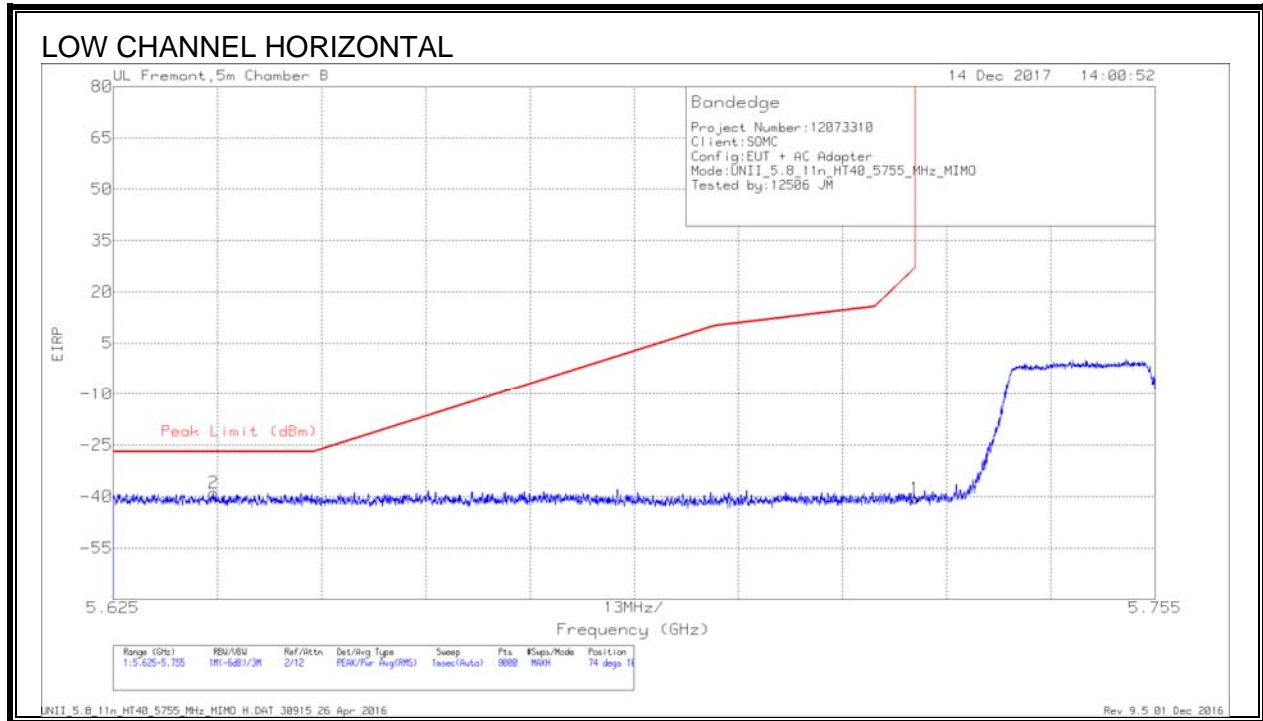
* - indicates frequency in CFR47 Pt 15 - Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.15. 11n HT40 2TX CDD MIMO MODE IN THE 5.8GHz BAND

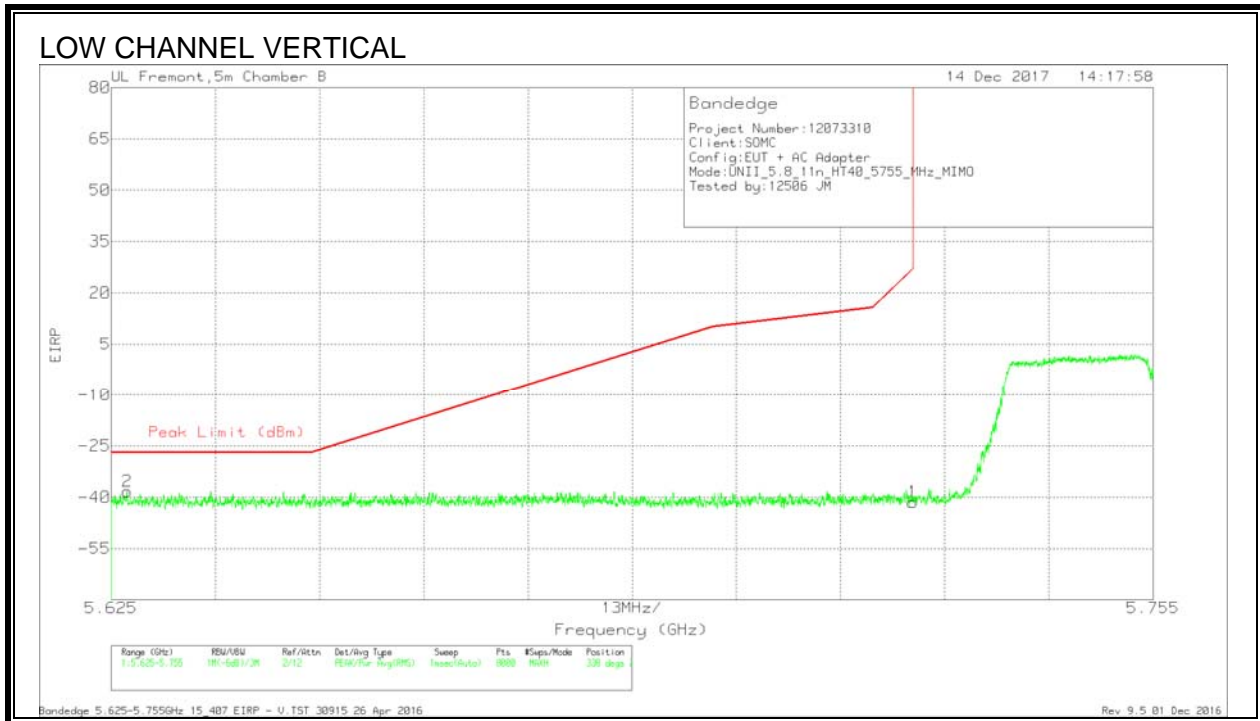
RESTRICTED BANDEDGE (LOW CHANNEL)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T863 (dB/m)	Amp/Cbi/Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.638	-66.59	Pk	35.3	-19.4	11.8	0	-38.89	-27	-11.89	74	102	H
1	5.725	-67.83	Pk	35	-19.5	11.8	0	-40.53	27	-67.53	74	102	H

Pk - Peak detector

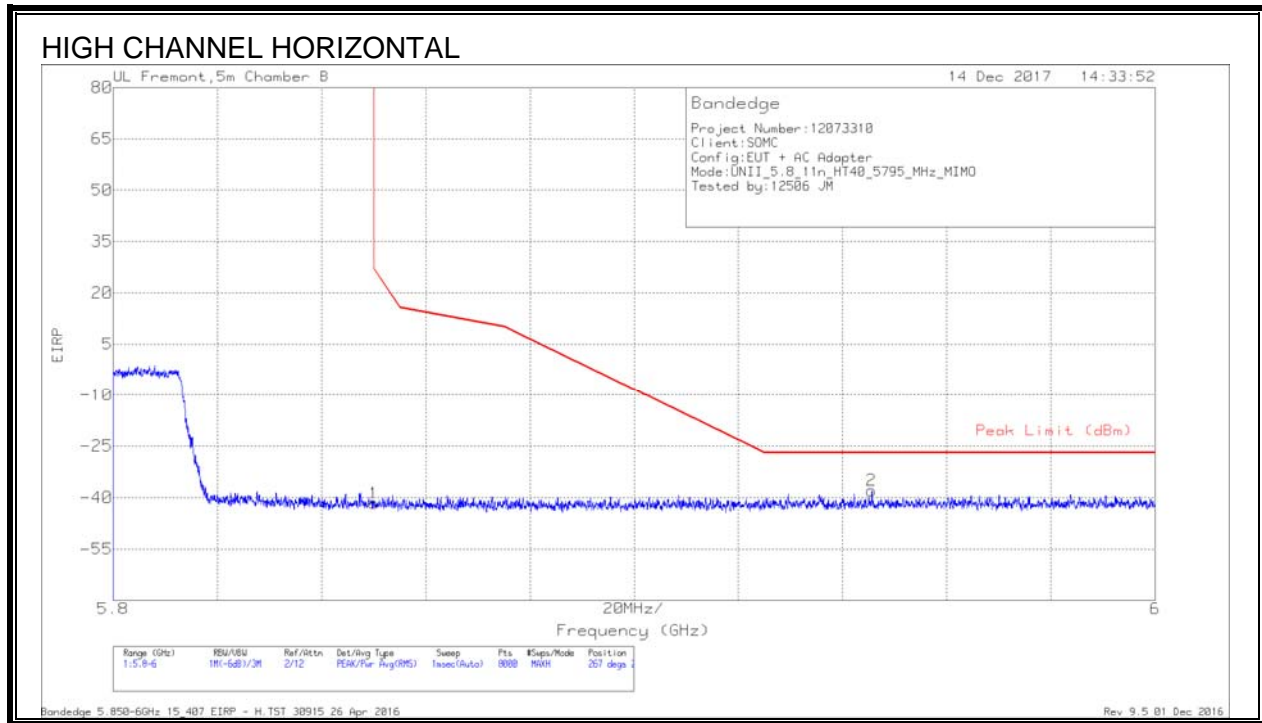


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T863 (dB/m)	Amp/Cb/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.627	-66.2	Pk	35.3	-19.2	11.8	0	-38.3	-27	-11.3	338	259	V
1	5.725	-68.74	Pk	35	-19.5	11.8	0	-41.44	27	-68.44	338	259	V

Pk - Peak detector

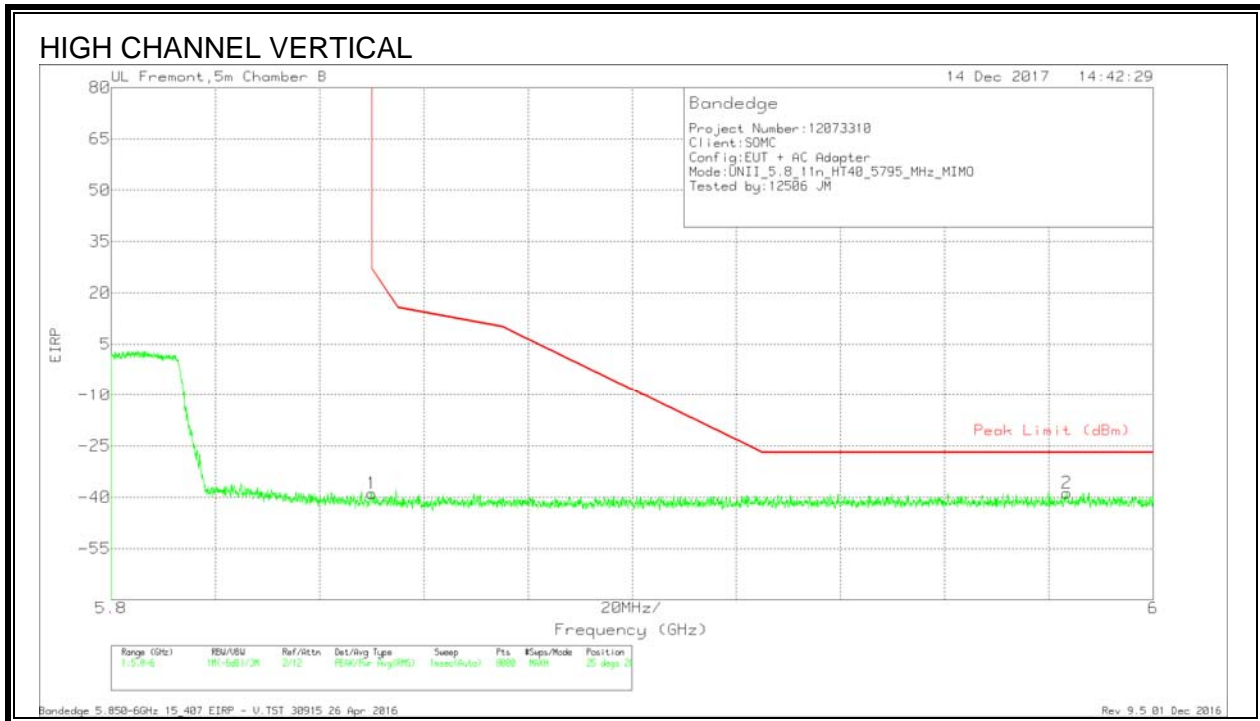
AUTHORIZED BANDEDGE (HIGH CHANNEL)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T863 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-69.32	Pk	35.1	-19.3	11.8	0	-41.72	26.99	-68.71	267	299	H
2	5.946	-65.85	Pk	35.2	-19.1	11.8	0	-37.95	-27	-10.95	267	299	H

Pk - Peak detector

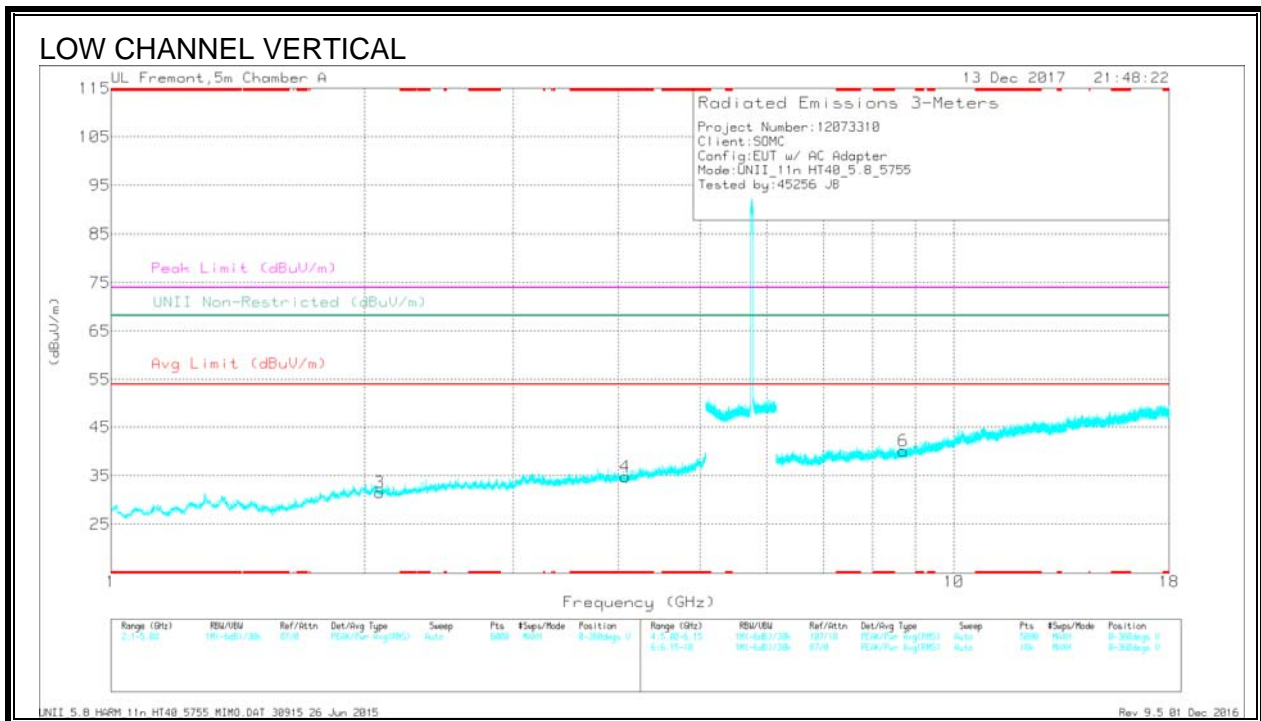
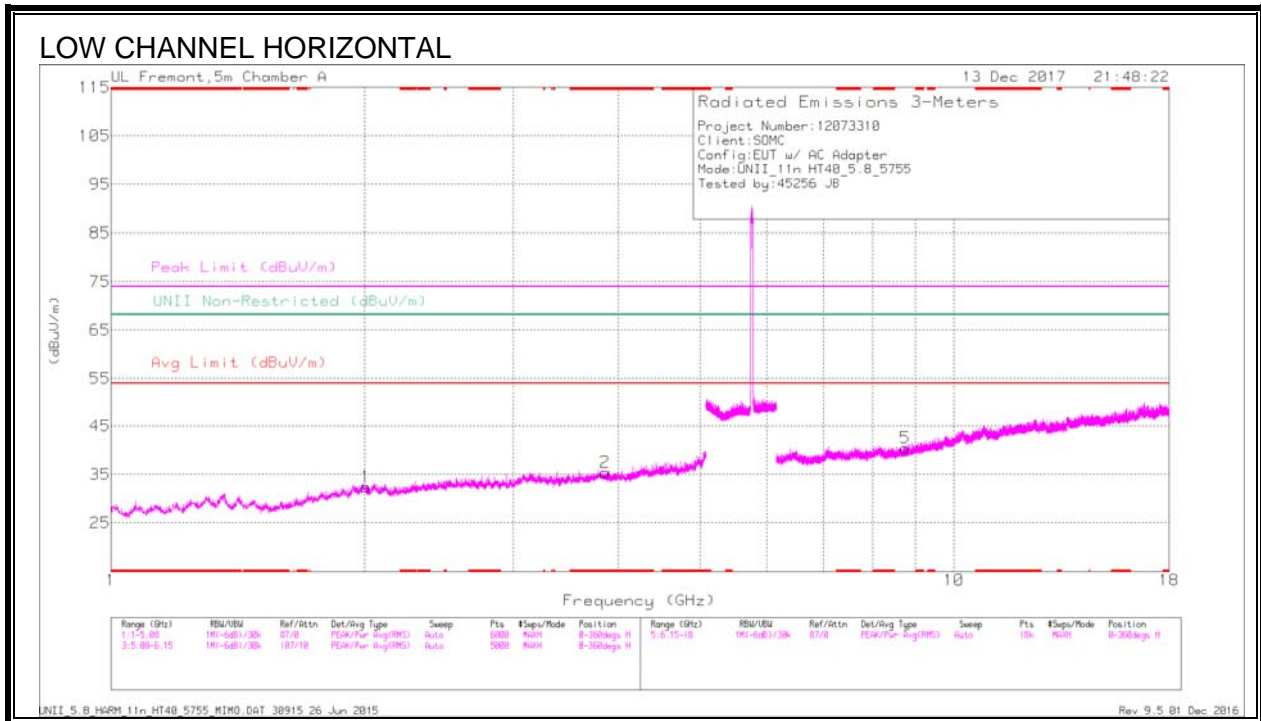


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T863 (dB/m)	Amp/Cb/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-66.49	Pk	35.1	-19.3	11.8	0	-38.89	26.99	-65.88	25	266	V
2	5.983	-66.92	Pk	35.3	-18.9	11.8	0	-38.72	-27	-11.72	25	266	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS



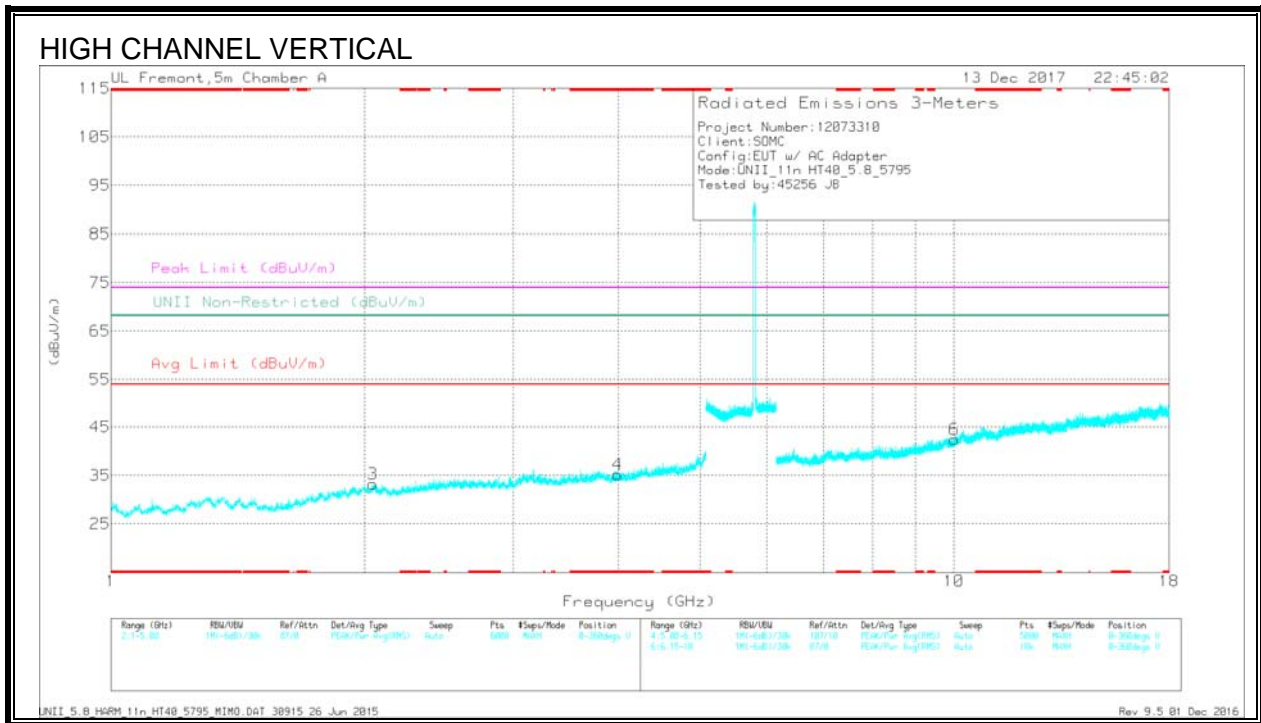
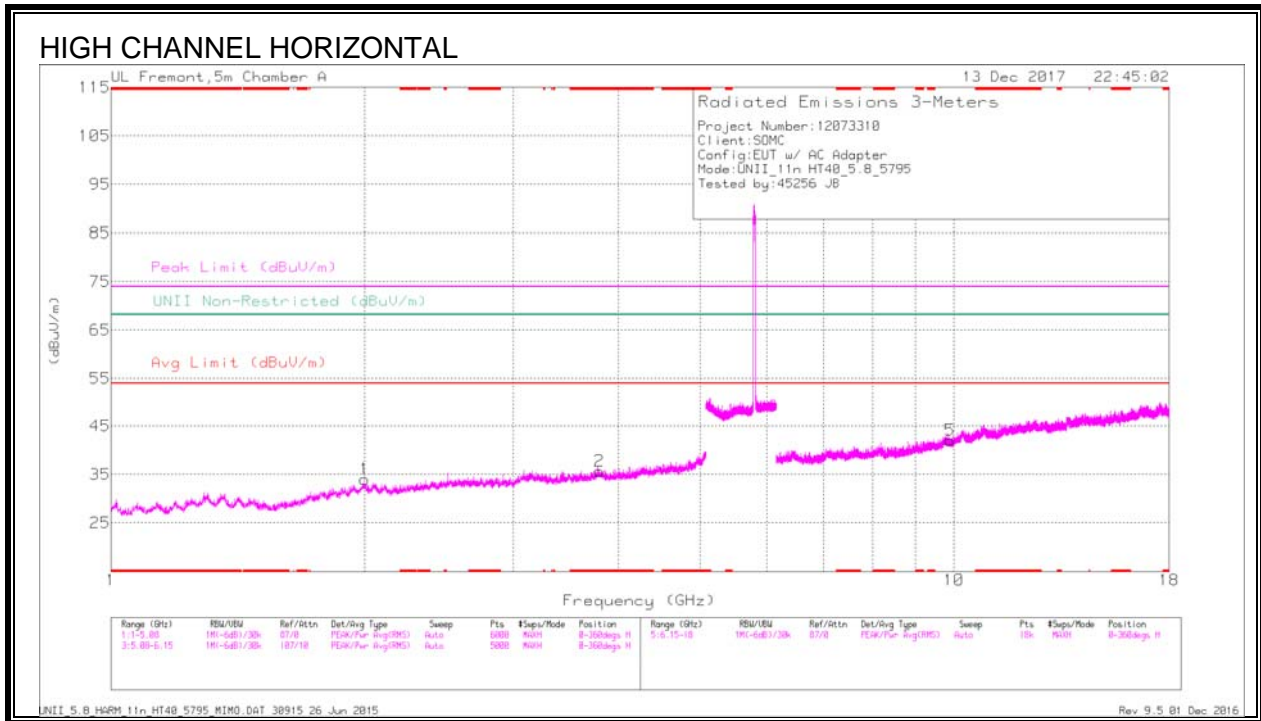
Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.854	37	PK-U	33	-28.2	0	41.8	-	-	74	-32.2	-	-	339	212	H
	* 3.855	25.37	ADR	33	-28.2	.39	30.56	54	-23.44	-	-	-	-	339	212	H
4	* 4.078	35.67	PK-U	33.4	-28.2	0	40.87	-	-	74	-33.13	-	-	311	283	V
	* 4.075	24.63	ADR	33.4	-28.2	.39	30.22	54	-23.78	-	-	-	-	311	283	V
1	2.006	39.03	PK-U	31.4	-30.4	0	40.03	-	-	-	-	68.2	-28.17	261	383	H
3	2.083	37.82	PK-U	31.2	-30.2	0	38.82	-	-	-	-	68.2	-29.38	279	232	V
6	8.714	32.57	PK-U	36	-22.2	0	46.37	-	-	-	-	68.2	-21.83	78	350	V
5	8.754	32.83	PK-U	36	-22.2	0	46.63	-	-	-	-	68.2	-21.57	29	261	H

* - indicates frequency in CFR47 Pt 15 - Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.796	37.1	PK-U	33.2	-27.9	0	42.4	-	-	74	-31.6	-	-	278	248	H
	* 3.799	25.23	ADR	33.2	-27.9	.39	30.92	54	-23.08	-	-	-	-	278	248	H
4	* 3.987	36.48	PK-U	33.3	-27.9	0	41.88	-	-	74	-32.12	-	-	243	133	V
	* 3.988	25.18	ADR	33.3	-27.9	.39	30.97	54	-23.03	-	-	-	-	243	133	V
1	2.001	38.85	PK-U	31.4	-30.4	0	39.85	-	-	-	-	68.2	-28.35	164	388	H
3	2.046	38.3	PK-U	31.4	-30.1	0	39.6	-	-	-	-	68.2	-28.6	149	252	V
5	9.891	32.23	PK-U	37.1	-20.9	0	48.43	-	-	-	-	68.2	-19.77	187	264	H
6	10.012	32.28	PK-U	37.3	-20.6	0	48.98	-	-	-	-	68.2	-19.22	117	380	V

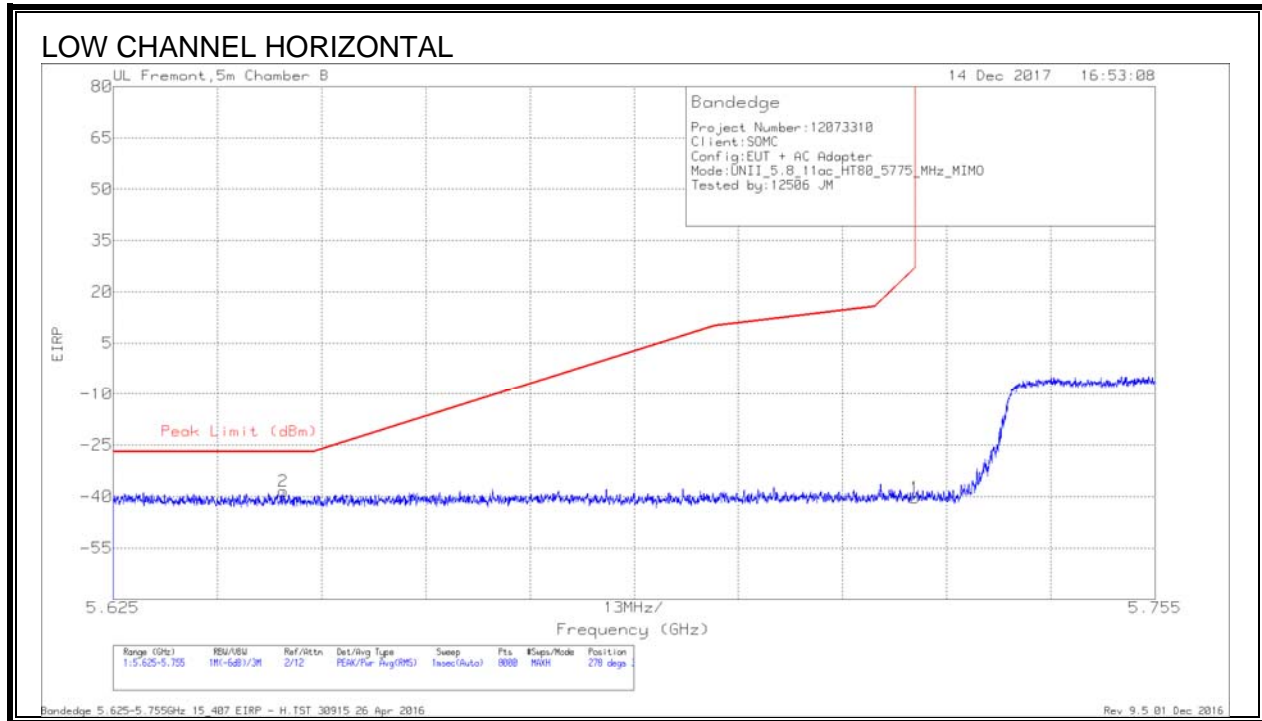
* - indicates frequency in CFR47 Pt 15 - Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.16. 11ac HT80 2TX CDD MIMO MODE IN THE 5.8GHz BAND

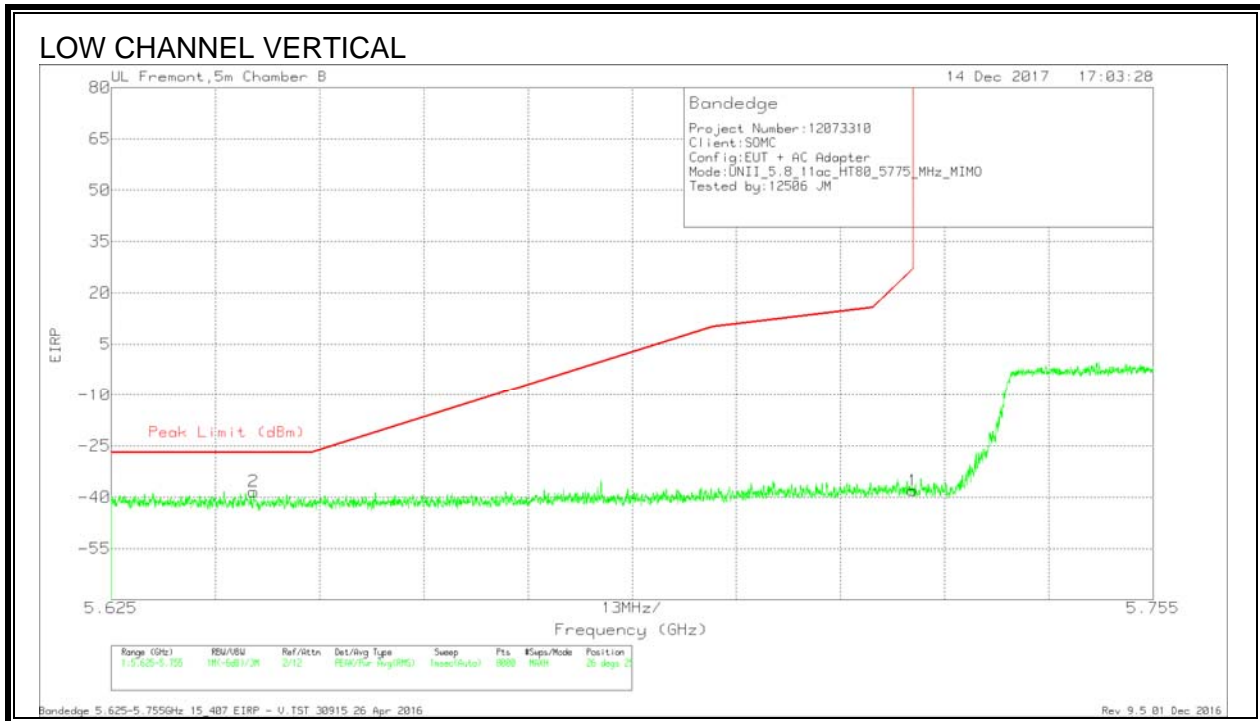
RESTRICTED BANDEDGE (LOW CHANNEL)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T863 (dB/m)	Amp/Cbi/Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.646	-66.18	Pk	35.3	-19.4	11.8	0	-38.48	-27	-11.48	278	339	H
1	5.725	-67.68	Pk	35	-19.5	11.8	0	-40.38	27	-67.38	278	339	H

Pk - Peak detector

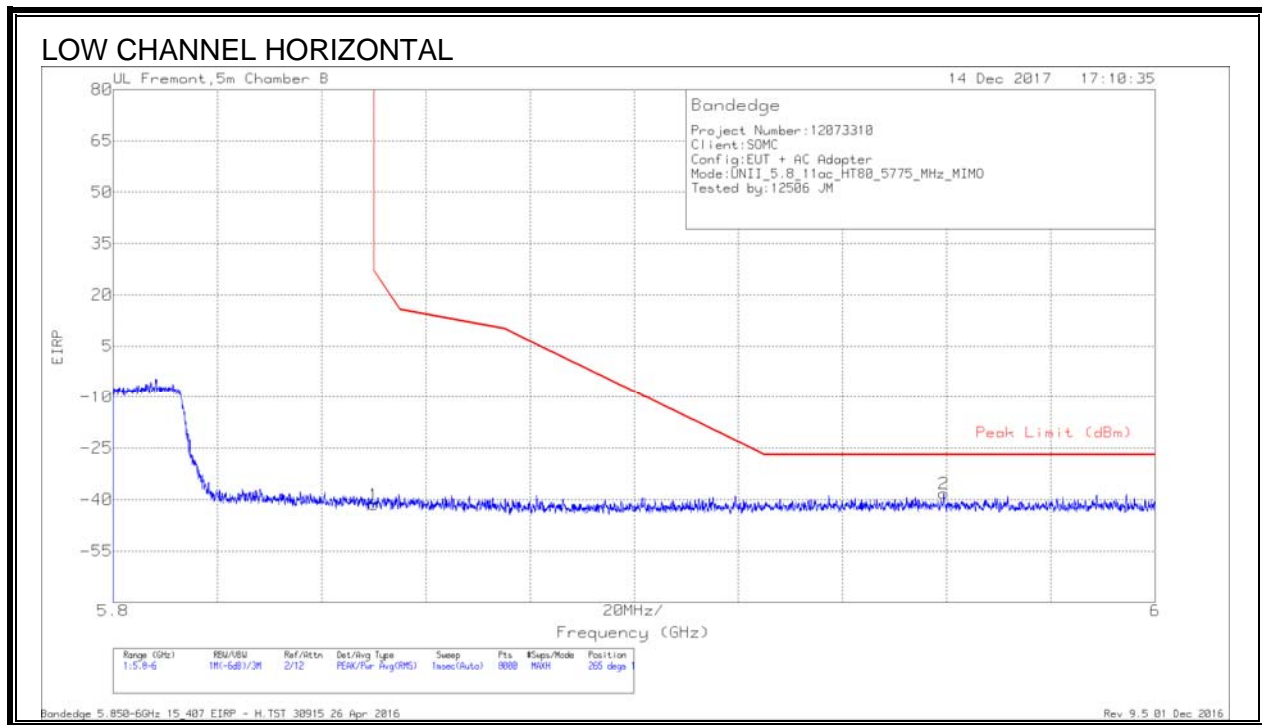


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T863 (dB/m)	Amp/Cb/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.643	-66.02	Pk	35.3	-19.4	11.8	0	-38.32	-27	-11.32	26	255	V
1	5.725	-65.39	Pk	35	-19.5	11.8	0	-38.09	27	-65.09	26	255	V

Pk - Peak detector

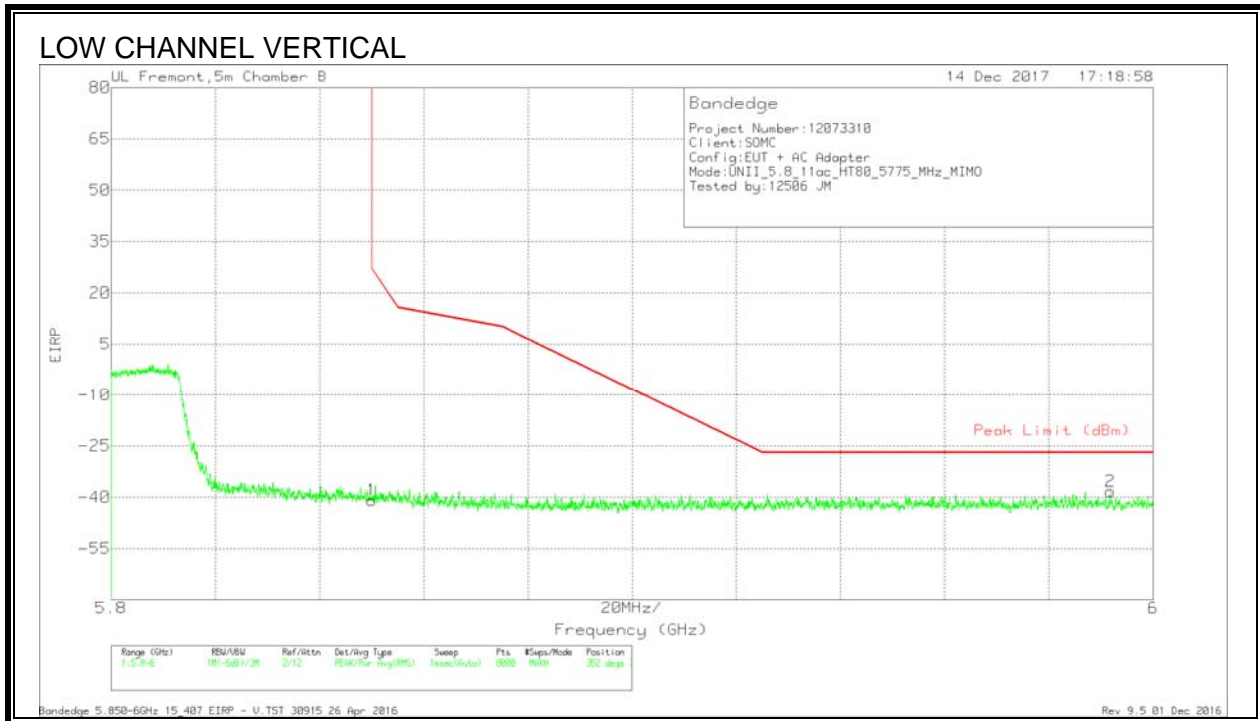
AUTHORIZED BANDEDGE (HIGH CHANNEL)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T863 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-69.13	Pk	35.1	-19.3	11.8	0	-41.53	26.99	-68.52	265	145	H
2	5.959	-66.26	Pk	35.2	-19	11.8	0	-38.26	-27	-11.26	265	145	H

Pk - Peak detector

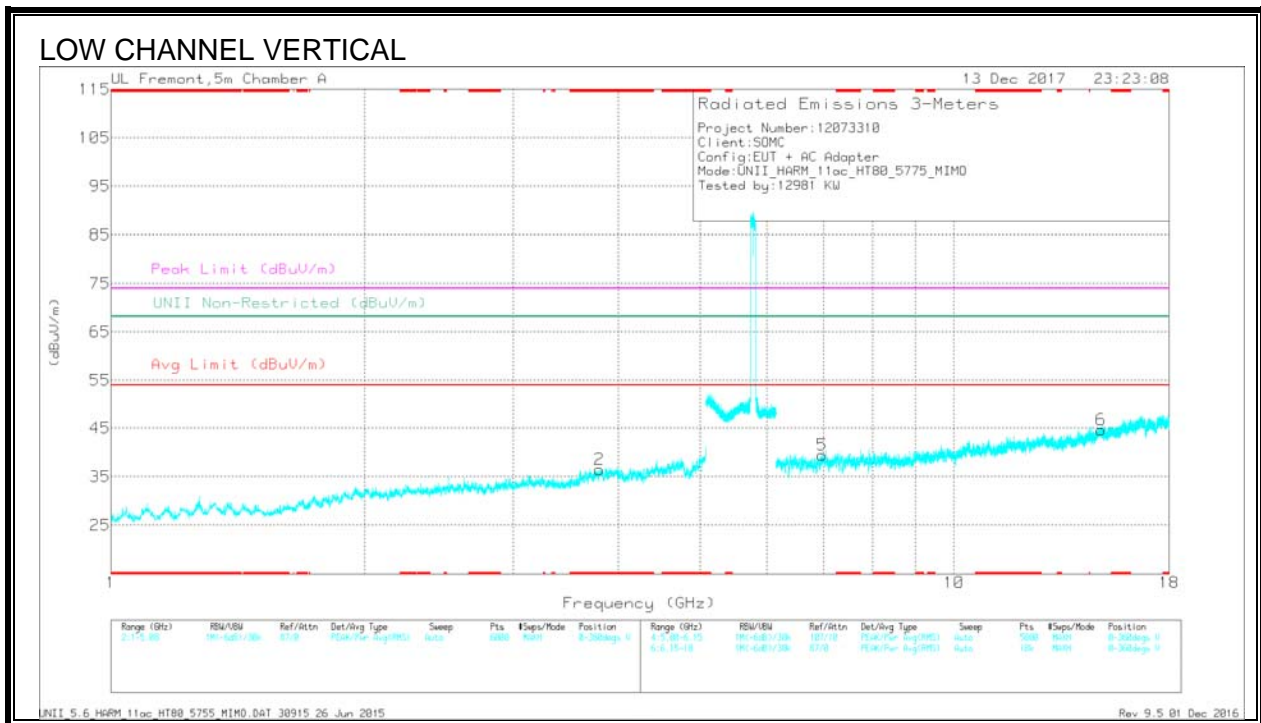
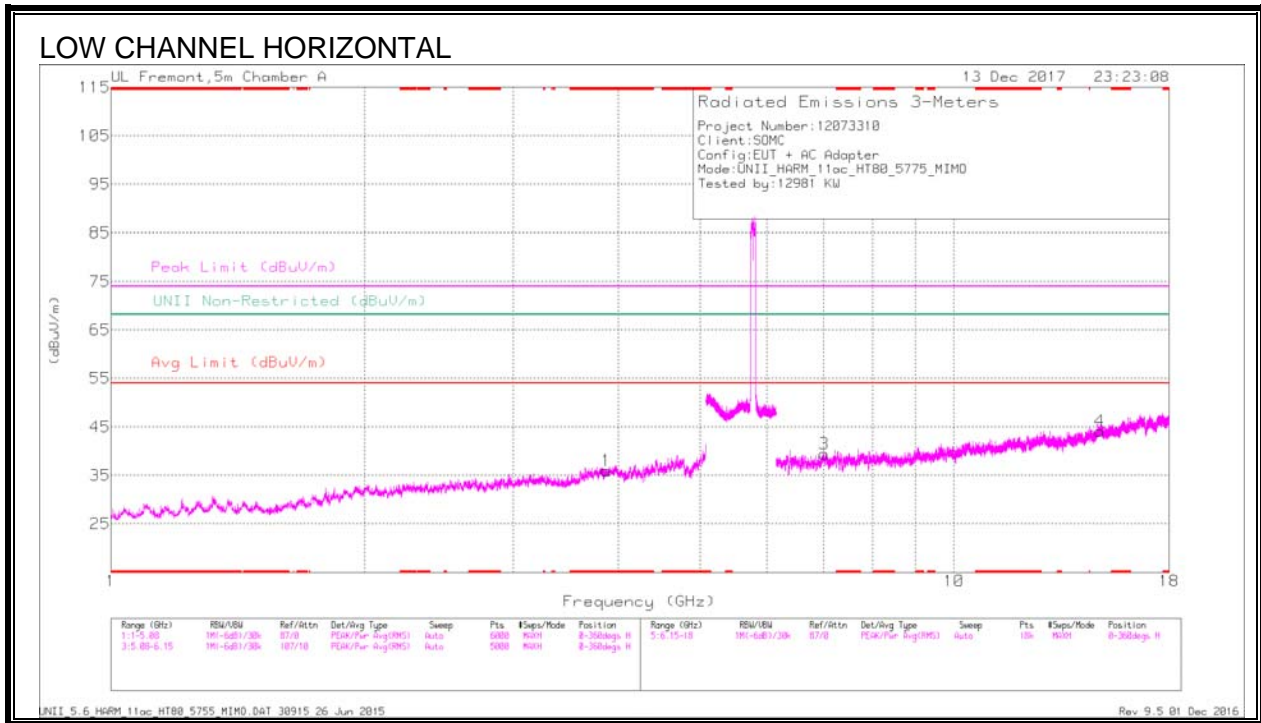


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T863 (dB/m)	Amp/Cb/Fltr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-68.47	Pk	35.1	-19.3	11.8	0	-40.87	26.99	-67.86	352	324	V
2	5.992	-66.49	Pk	35.3	-18.9	11.8	0	-38.29	-27	-11.29	352	324	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS



Radiated Emissions

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.868	40.62	PK-U	33.5	-30.6	0	43.52	-	-	74	-30.48	-	-	0	104	H
	* 3.868	28.97	ADR	33.5	-30.6	.77	32.64	54	-21.36	-	-	-	-	0	104	H
2	* 3.797	39.89	PK-U	33.5	-30.8	0	42.59	-	-	74	-31.41	-	-	0	198	V
	* 3.799	28.71	ADR	33.5	-30.8	.77	32.18	54	-21.82	-	-	-	-	0	198	V
5	6.98	37.56	PK-U	35.8	-27	0	46.36	-	-	-	-	68.2	-21.84	0	198	V
3	7.013	37.74	PK-U	35.8	-26.7	0	46.84	-	-	-	-	68.2	-21.36	0	198	H
4	14.89	31.62	PK-U	40.6	-21.4	0	50.82	-	-	-	-	68.2	-17.38	0	198	H
6	14.943	31.86	PK-U	40.6	-21.3	0	51.16	-	-	-	-	68.2	-17.04	0	104	V

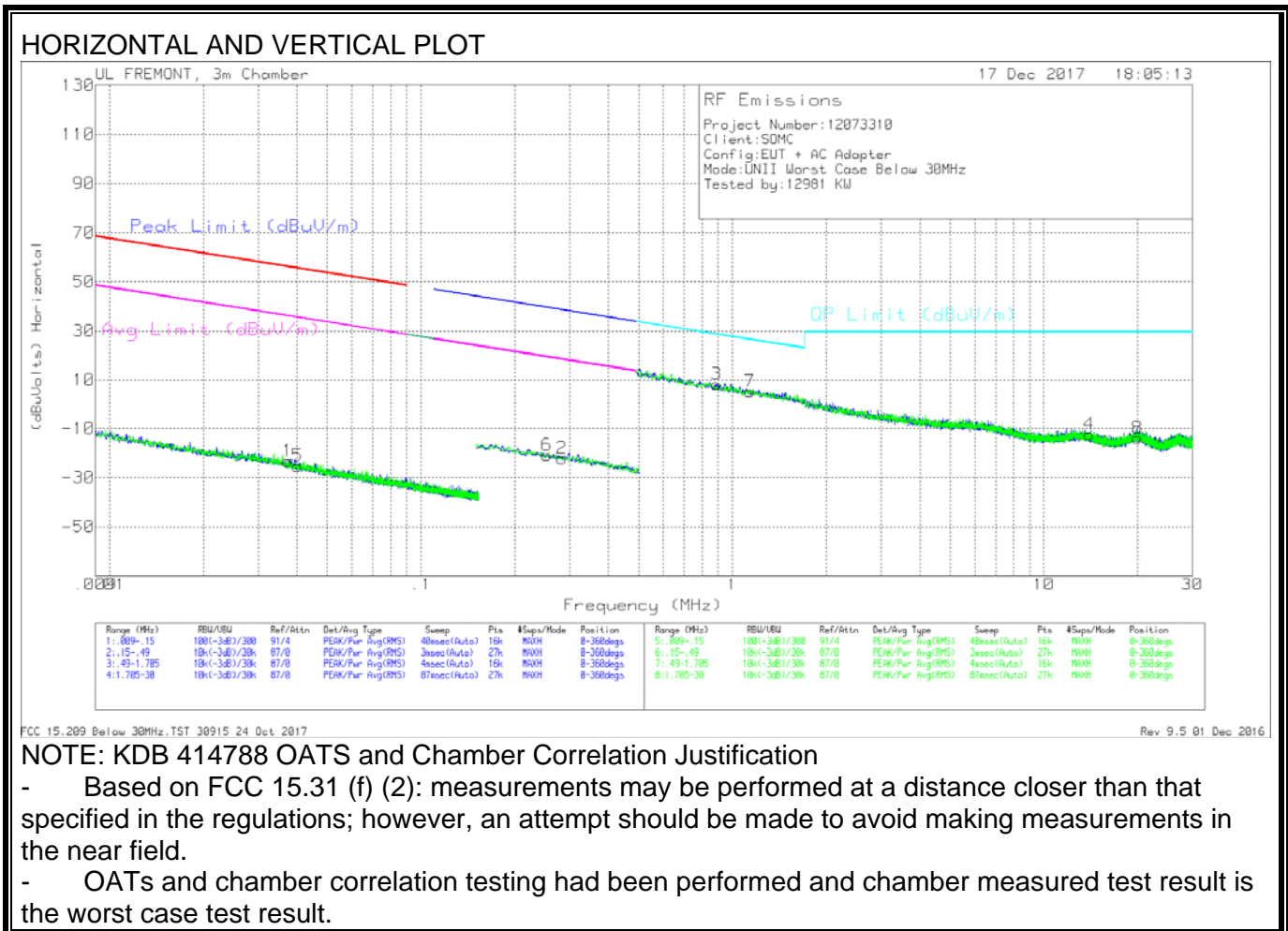
* - indicates frequency in CFR47 Pt 15 - Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.2. WORST CASE BELOW 30 MHz

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 300m	Corrected Reading (dBuVolts)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
1	.03735	40.18	Pk	15.1	1.4	-80	-23.32	56.14	-79.46	36.14	-59.46	-	-	-	-	0-360
5	.04019	38.43	Pk	14.9	1.4	-80	-25.27	55.5	-80.77	35.5	-60.77	-	-	-	-	0-360
6	.25371	43.92	Pk	13.8	1.5	-80	-20.78	-	-	-	-	39.53	-60.31	19.53	-40.31	0-360
2	.28348	42.57	Pk	13.8	1.5	-80	-22.13	-	-	-	-	38.56	-60.69	18.56	-40.69	0-360

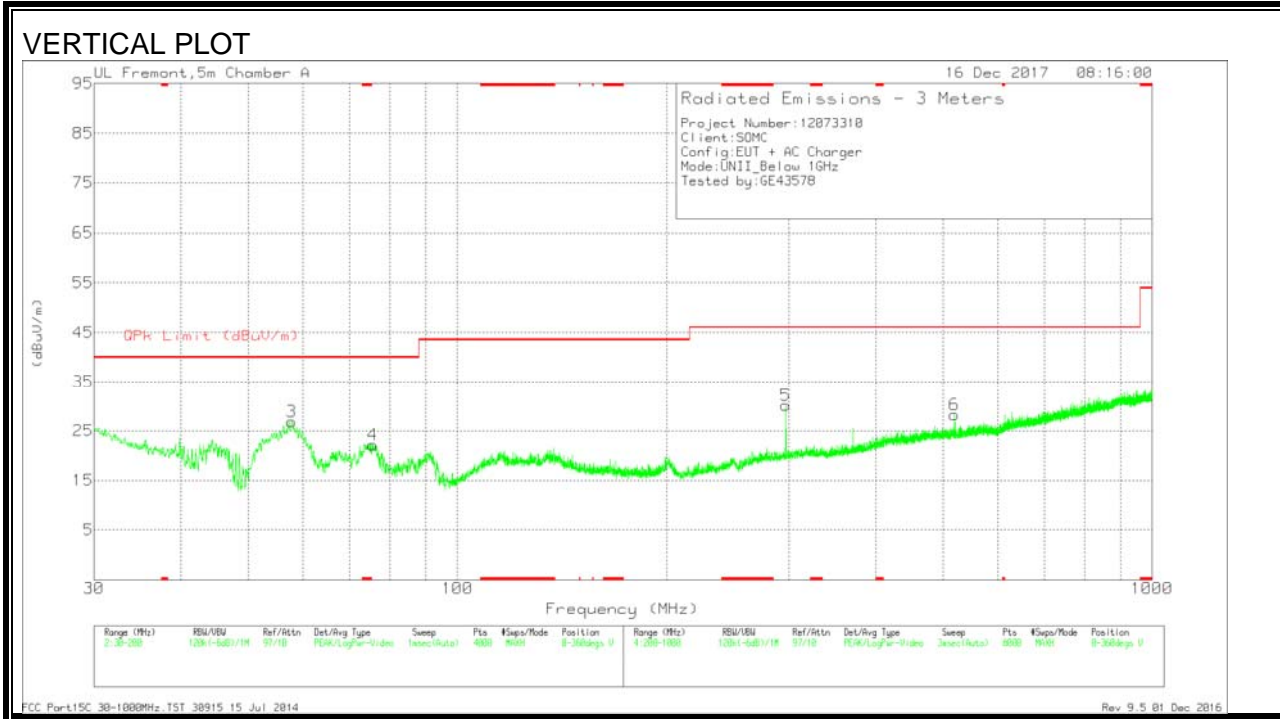
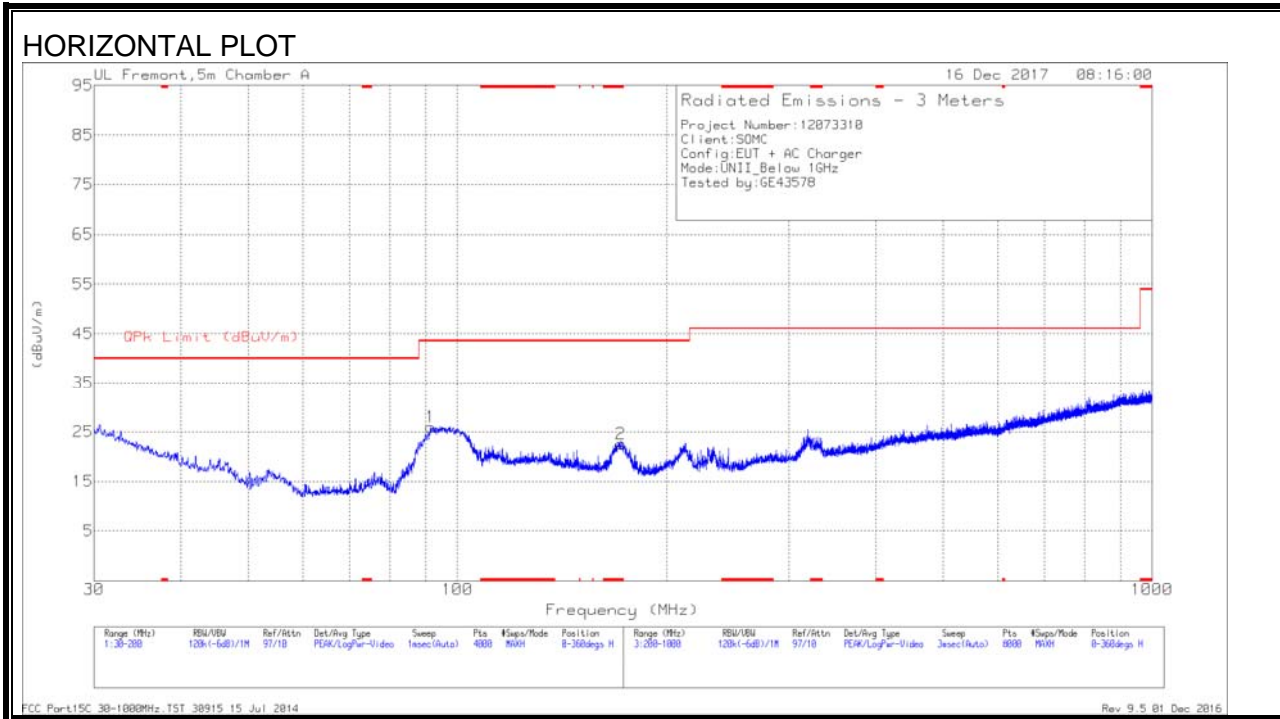
Pk - Peak detector

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Loop Antenna (dB/m)	Cbl (dB)	Dist Corr 30m	Corrected Reading (dBuVolts)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
3	.88949	32.8	Pk	14.1	1.5	-40	8.4	28.64	-20.24	0-360
7	1.1379	29.6	Pk	14.3	1.5	-40	5.4	26.5	-21.1	0-360
4	13.98022	11.47	Pk	14.5	1.6	-40	-12.43	29.5	-41.93	0-360
8	19.99155	9.7	Pk	14.8	1.6	-40	-13.9	29.5	-43.4	0-360

Pk - Peak detector

10.3. WORST-CASE BELOW 1 GHz

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



Trace Markers

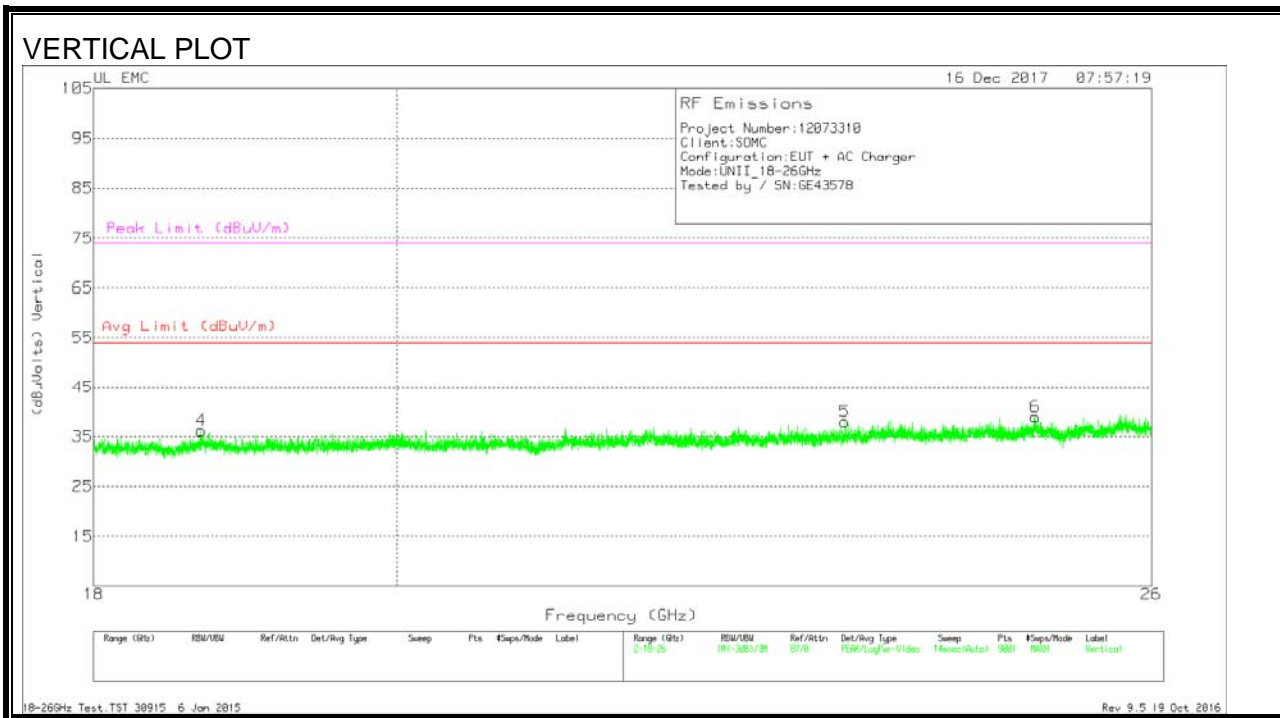
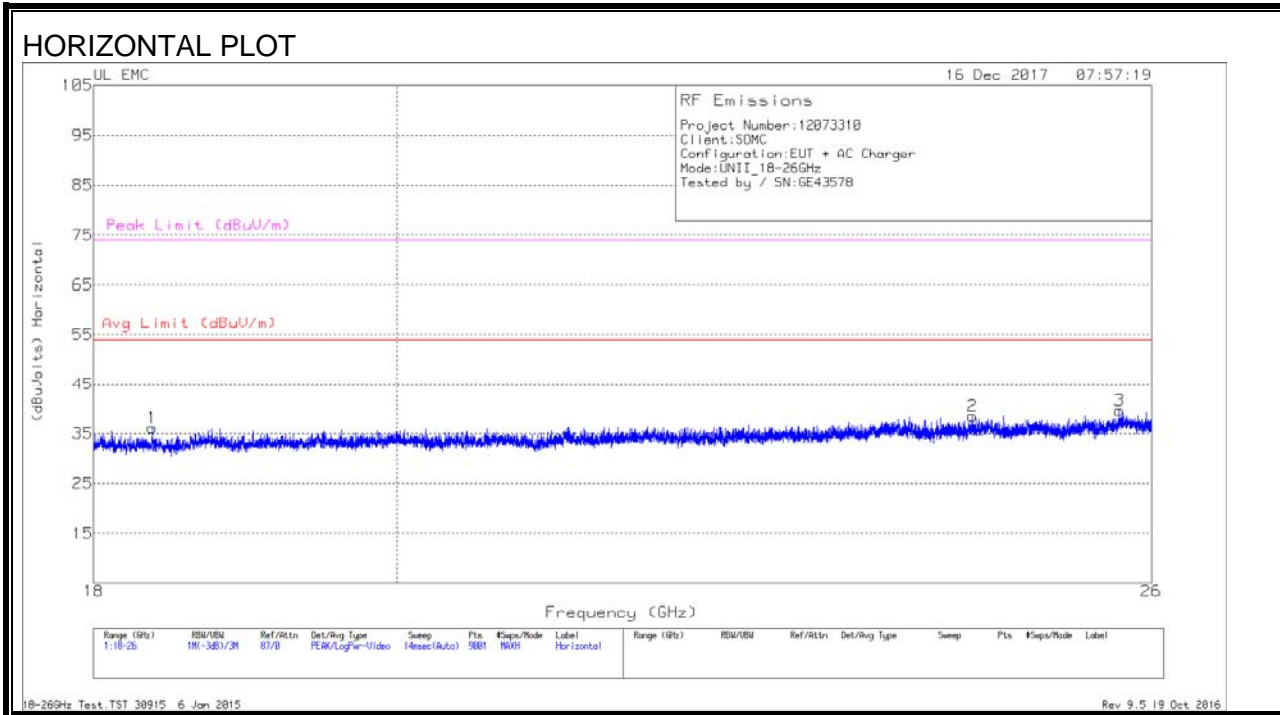
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 172.0293	32.41	Pk	15.7	-25.6	22.51	43.52	-21.01	0-360	300	H
3	57.7597	42.36	Pk	11.4	-26.9	26.86	40	-13.14	0-360	100	V
4	75.6143	36.94	Pk	11.9	-26.7	22.14	40	-17.86	0-360	100	V
1	91.4922	40.5	Pk	12	-26.5	26	43.52	-17.52	0-360	300	H
5	297.0126	37.51	Pk	17.3	-24.6	30.21	46.02	-15.81	0-360	100	V
6	519.7416	31.89	Pk	21.7	-25.3	28.29	46.02	-17.73	0-360	300	V

* - indicates frequency in CFR47 Pt 15 - Restricted Band

Pk - Peak detector

10.4. WORST-CASE 18 to 26 GHz

SPURIOUS EMISSIONS 18 TO 26 GHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)



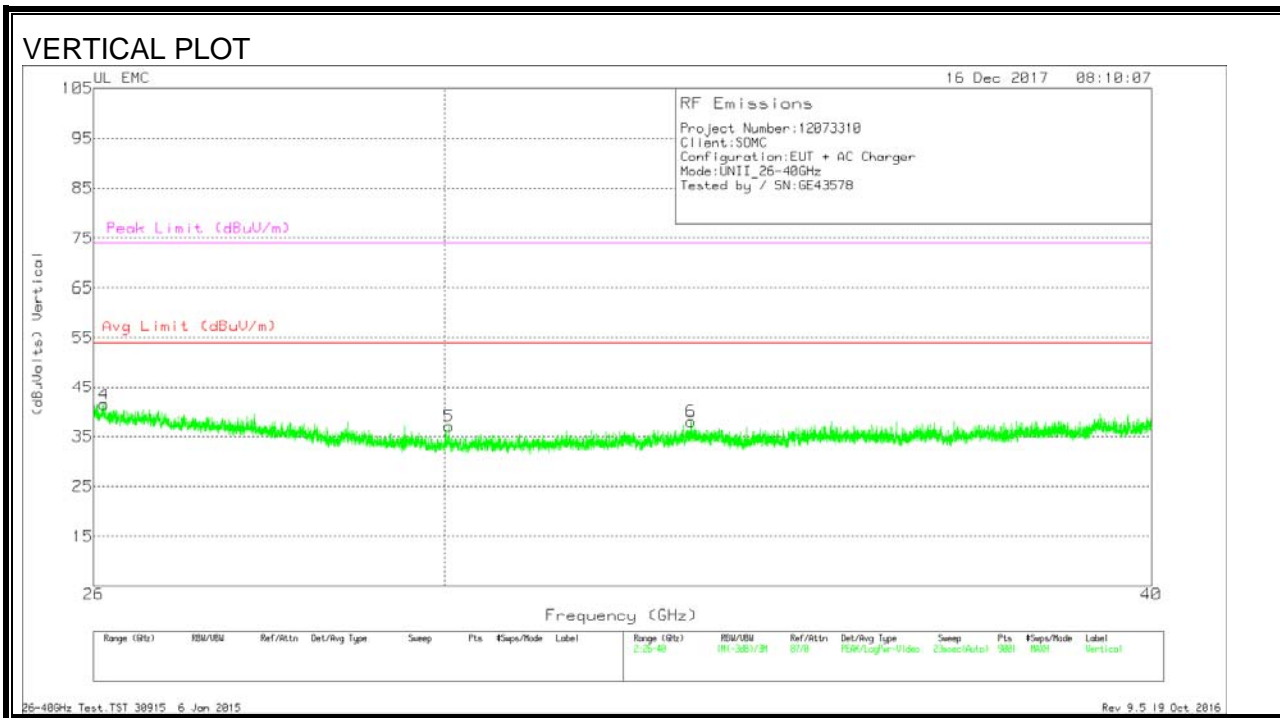
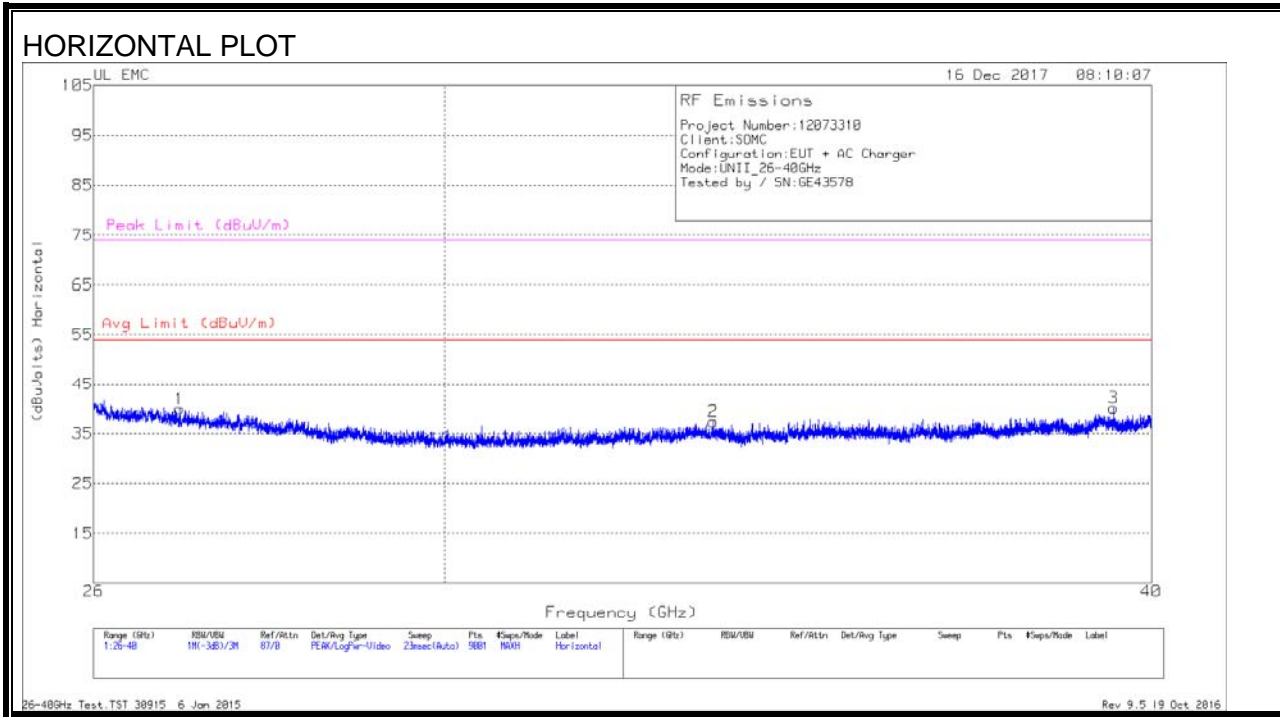
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T89 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	18.37	38.32	Pk	32.4	-25.1	-9.5	36.12	54	-17.88	74	-37.88
2	24.432	38.33	Pk	33.9	-24.2	-9.5	38.53	54	-15.47	74	-35.47
3	25.712	39.83	Pk	34.1	-24.8	-9.5	39.63	54	-14.37	74	-34.37
4	18.685	37.59	Pk	32.5	-24.4	-9.5	36.19	54	-17.81	74	-37.81
5	23.372	38.69	Pk	33.4	-24.6	-9.5	37.99	54	-16.01	74	-36.01
6	24.972	38.58	Pk	34.1	-24.2	-9.5	38.98	54	-15.02	74	-35.02

Pk - Peak detector

10.5. WORST-CASE 26 to 40 GHz

SPURIOUS EMISSIONS 26 TO 40 GHz (WORST-CASE CONFIGURATION)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T90 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	26.926	45.13	Pk	35.4	-31.1	-9.5	39.93	54	-14.07	74	-34.07
2	33.465	42.61	Pk	37.1	-32.8	-9.5	37.41	54	-16.59	74	-36.59
3	39.387	43.53	Pk	37.9	-31.8	-9.5	40.13	54	-13.87	74	-33.87
4	26.109	45.38	Pk	35.6	-30	-9.5	41.48	54	-12.52	74	-32.52
5	30.049	42.97	Pk	36	-32.4	-9.5	37.07	54	-16.93	74	-36.93
6	33.162	43.31	Pk	36.8	-32.6	-9.5	38.01	54	-15.99	74	-35.99

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	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

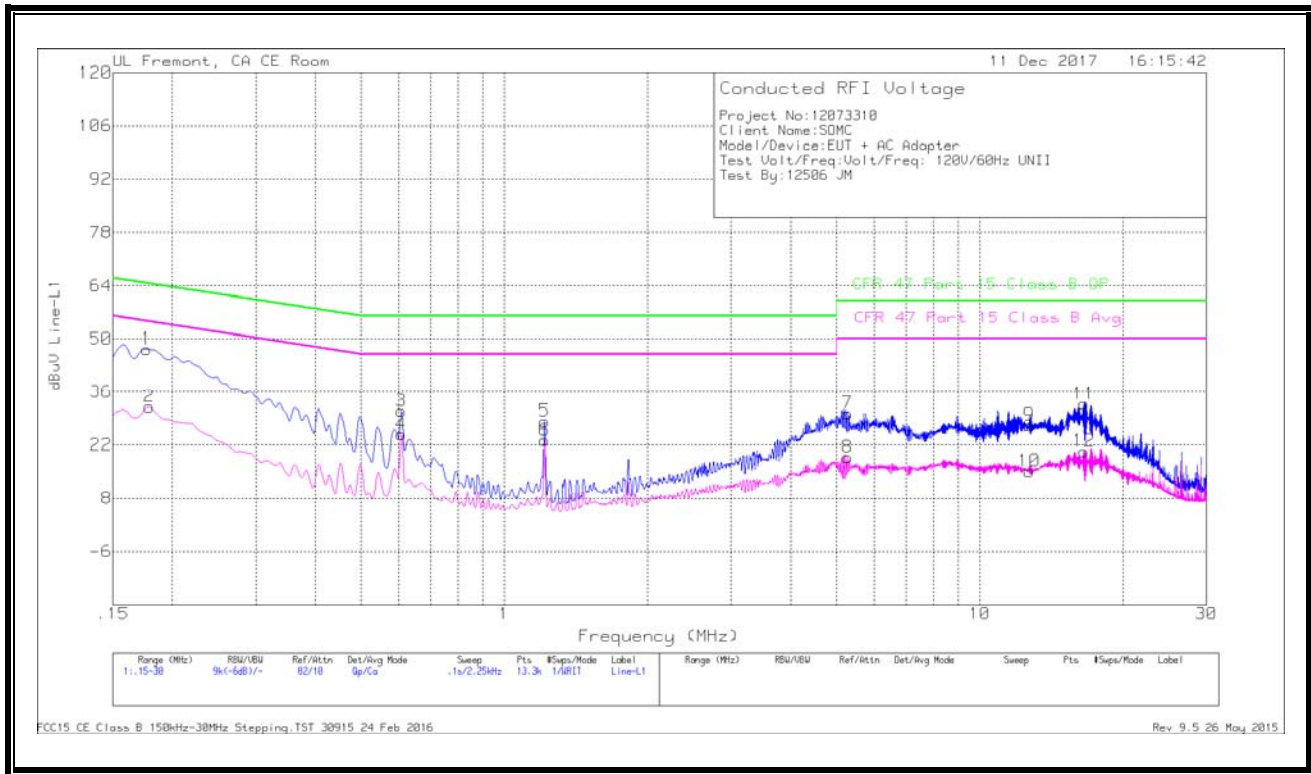
The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

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

LINE 1 RESULTS



WORST EMISSIONS

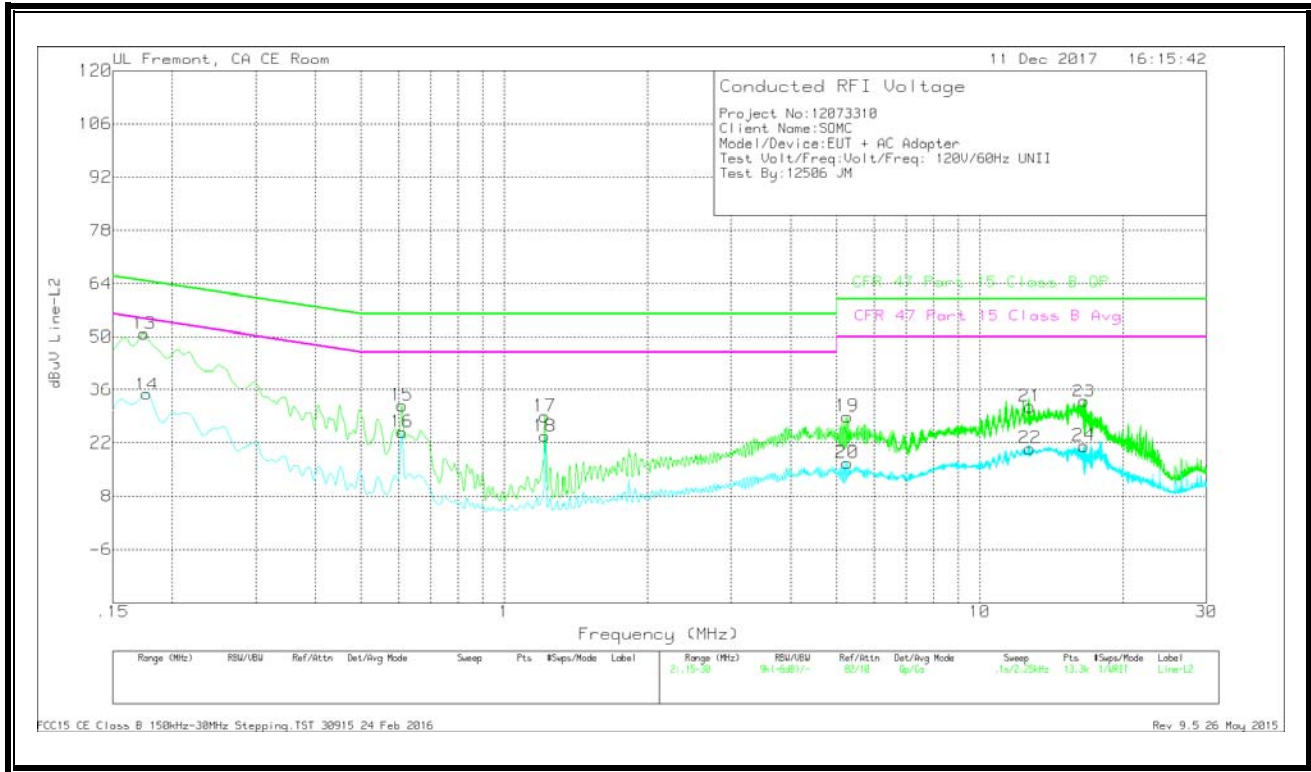
Trace Markers

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)M argin (dB)
1	.177	37.24	Qp	0	0	10.1	47.34	64.63	-17.29	-	-
2	.17925	21.87	Ca	0	0	10.1	31.97	-	-	54.52	-22.55
3	.60675	20.72	Qp	0	0	10.1	30.82	56	-25.18	-	-
4	.60675	14.55	Ca	0	0	10.1	24.65	-	-	46	-21.35
5	1.21538	17.96	Qp	0	.1	10.1	28.16	56	-27.84	-	-
6	1.21425	12.96	Ca	0	.1	10.1	23.16	-	-	46	-22.84
7	5.2665	19.94	Qp	0	.1	10.2	30.24	60	-29.76	-	-
8	5.2665	8.4	Ca	0	.1	10.2	18.7	-	-	50	-31.3
9	12.723	16.61	Qp	.1	.2	10.2	27.11	60	-32.89	-	-
10	12.7185	4.55	Ca	.1	.2	10.2	15.05	-	-	50	-34.95
11	16.58175	22.17	Qp	0	.3	10.3	32.77	60	-27.23	-	-
12	16.58175	9.68	Ca	0	.3	10.3	20.28	-	-	50	-29.72

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



WORST EMISSIONS

Trace Markers

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)M argin (dB)
13	.17475	40.77	Qp	0	0	10.1	50.87	64.73	-13.86	-	-
14	.177	24.66	Ca	0	0	10.1	34.76	-	-	54.63	-19.87
15	.609	21.65	Qp	0	0	10.1	31.75	56	-24.25	-	-
16	.609	14.67	Ca	0	0	10.1	24.77	-	-	46	-21.23
17	1.2165	18.72	Qp	0	.1	10.1	28.92	56	-27.08	-	-
18	1.2165	13.49	Ca	0	.1	10.1	23.69	-	-	46	-22.31
19	5.26425	18.58	Qp	0	.1	10.2	28.88	60	-31.12	-	-
20	5.26425	6.44	Ca	0	.1	10.2	16.74	-	-	50	-33.26
21	12.76125	20.96	Qp	.1	.2	10.2	31.46	60	-28.54	-	-
22	12.76125	10.03	Ca	.1	.2	10.2	20.53	-	-	50	-29.47
23	16.5615	22.31	Qp	0	.3	10.3	32.91	60	-27.09	-	-
24	16.55925	10.56	Ca	0	.3	10.3	21.16	-	-	50	-28.84

Qp - Quasi-Peak detector

Ca - CISPR average detection