

RESULTS

ID:	45258 JL	Date:	3/3/17
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Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5755	40.9	36.15	4.45	7.46
High	5795	40.8	36.14	4.45	7.46

Limits

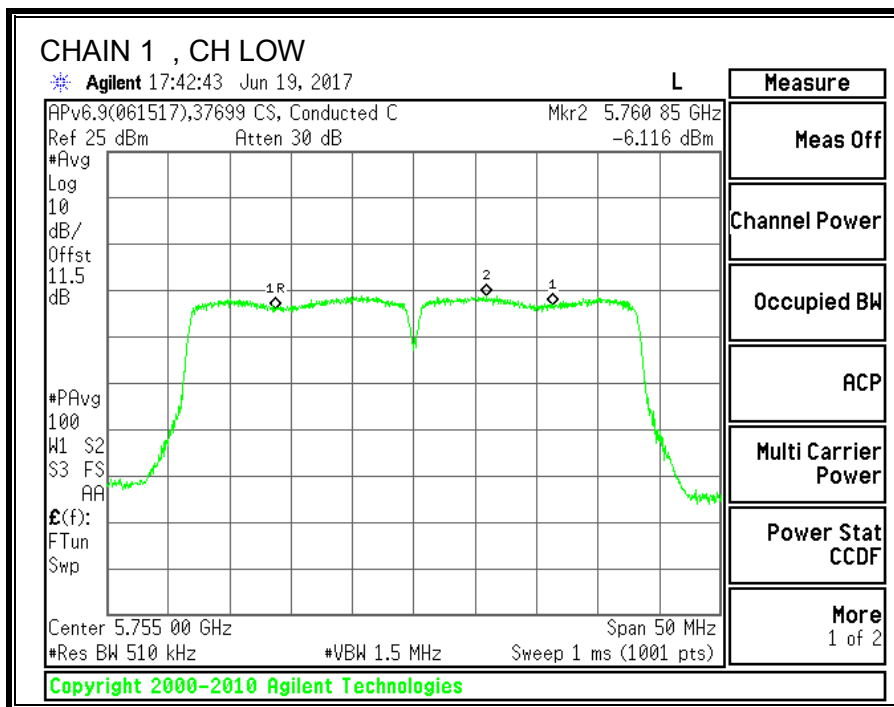
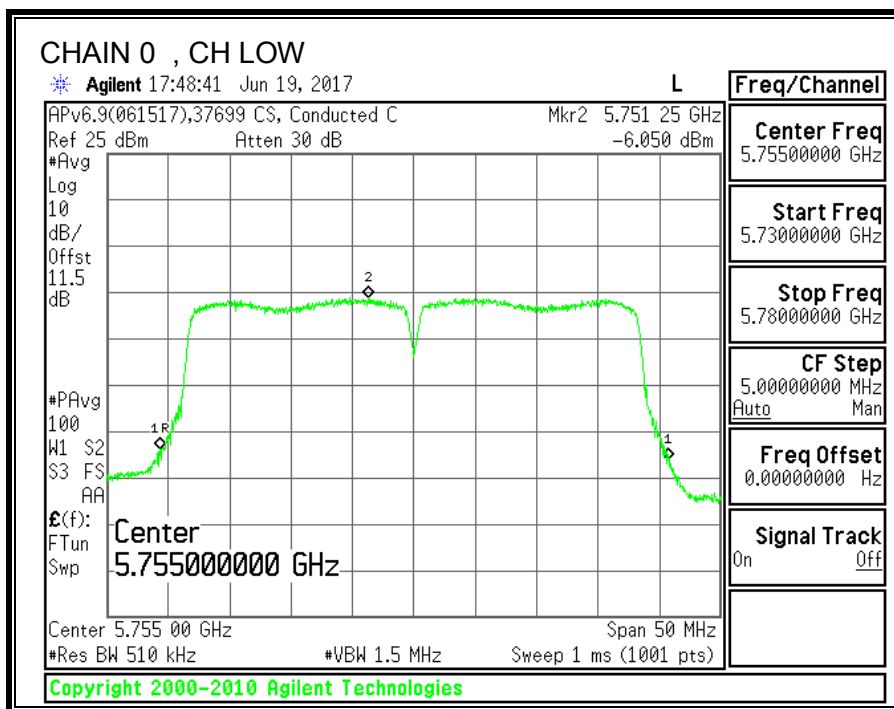
Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5755	30.00	30.00	36.00	30.00	30.00	17.00	17.00
High	5795	30.00	30.00	36.00	30.00	30.00	17.00	17.00

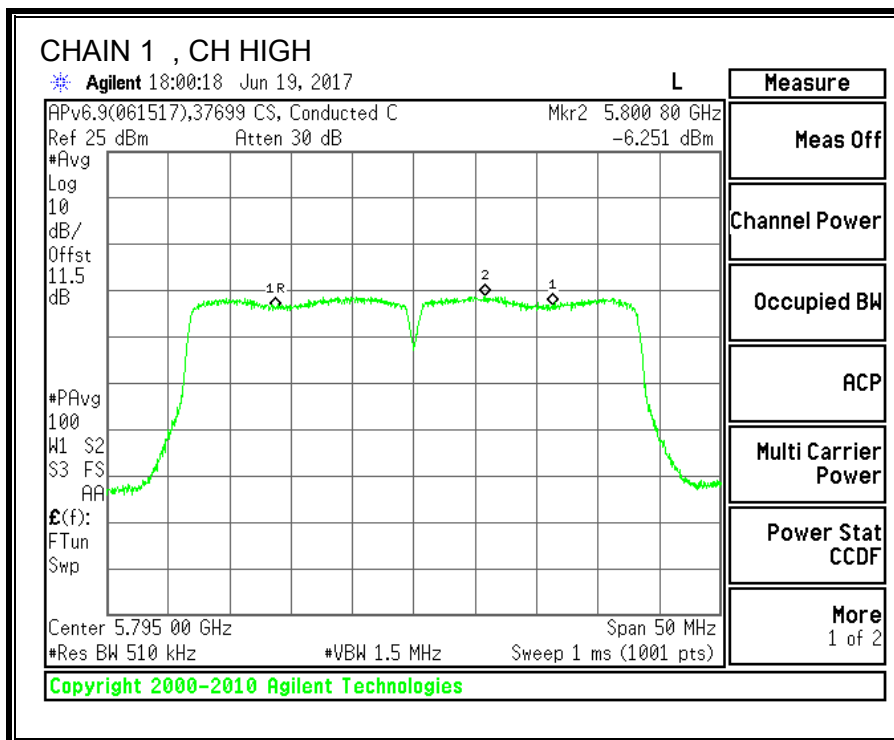
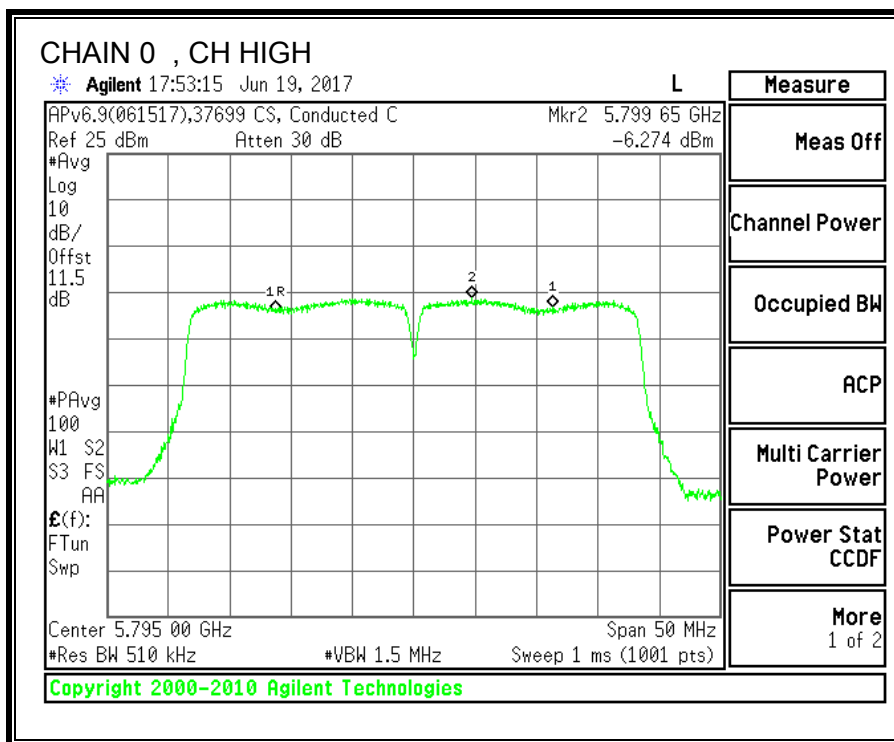
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	10.66	11.02	13.85	30.00	-16.15
High	5795	10.31	10.95	13.65	30.00	-16.35

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5755	-6.05	-6.12	-3.07	17.00	-20.07
High	5795	-6.27	-6.25	-3.25	17.00	-20.25





9.16. 11ac HT80 2TX MODE IN THE 5.8GHz BAND

9.16.1. 6 dB BANDWIDTH

LIMITS

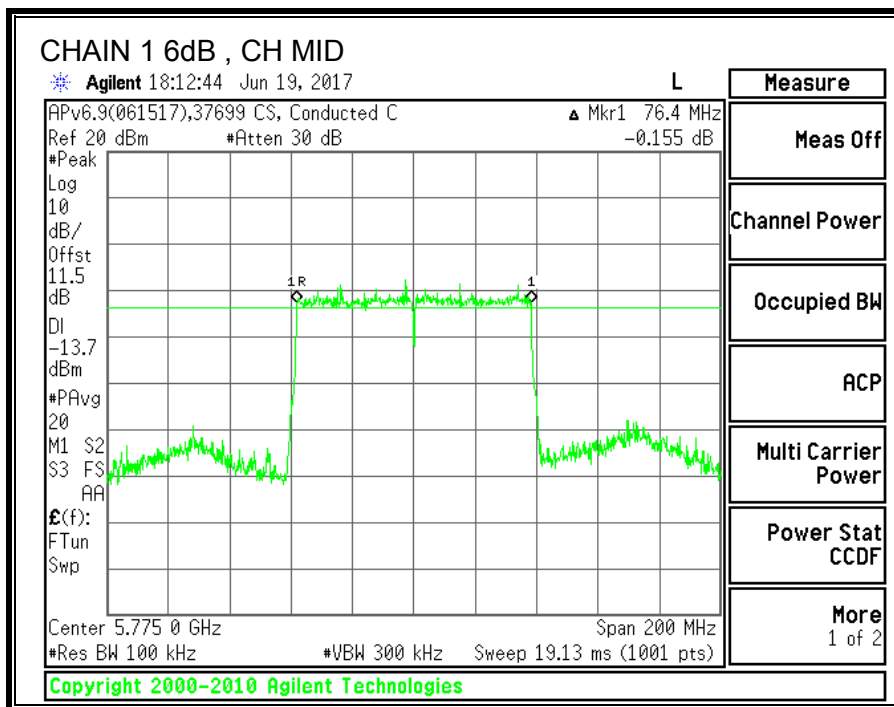
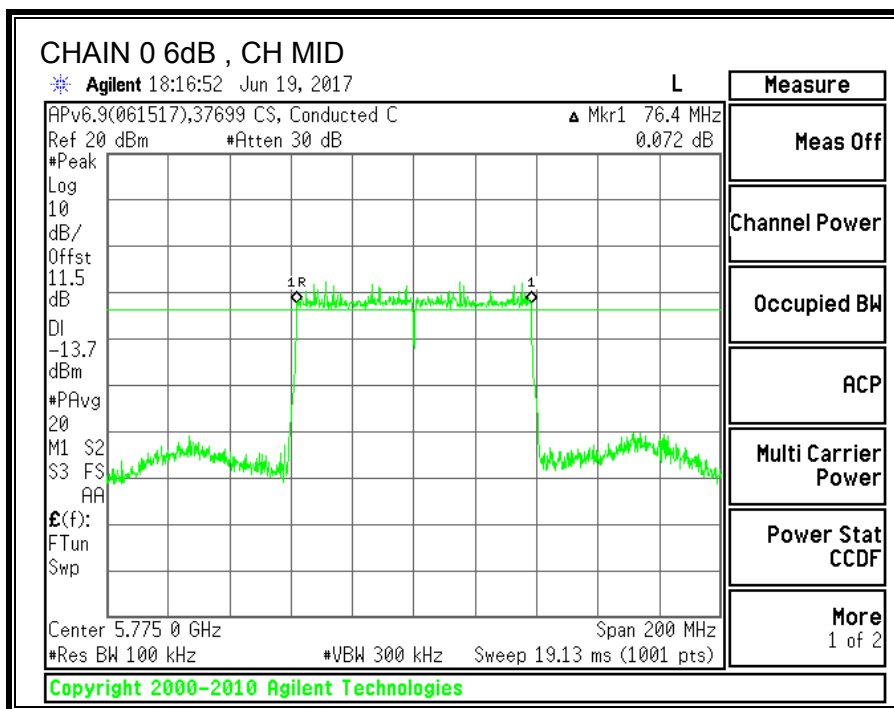
FCC §15.407 (e)

IC RSS-247 (6.2.4) (1)

The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

Channel	Frequency	6 dB BW CHAIN 0 (MHz)	6 dB BW CHAIN 1 (MHz)	Minimum Limit (MHz)
155	5775	76.4	76.4	0.5



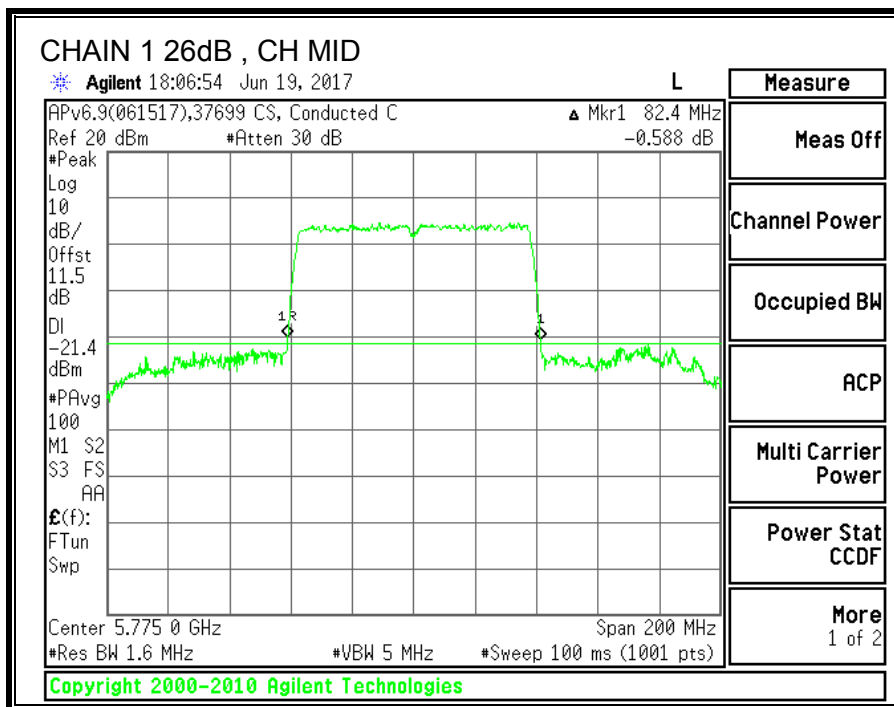
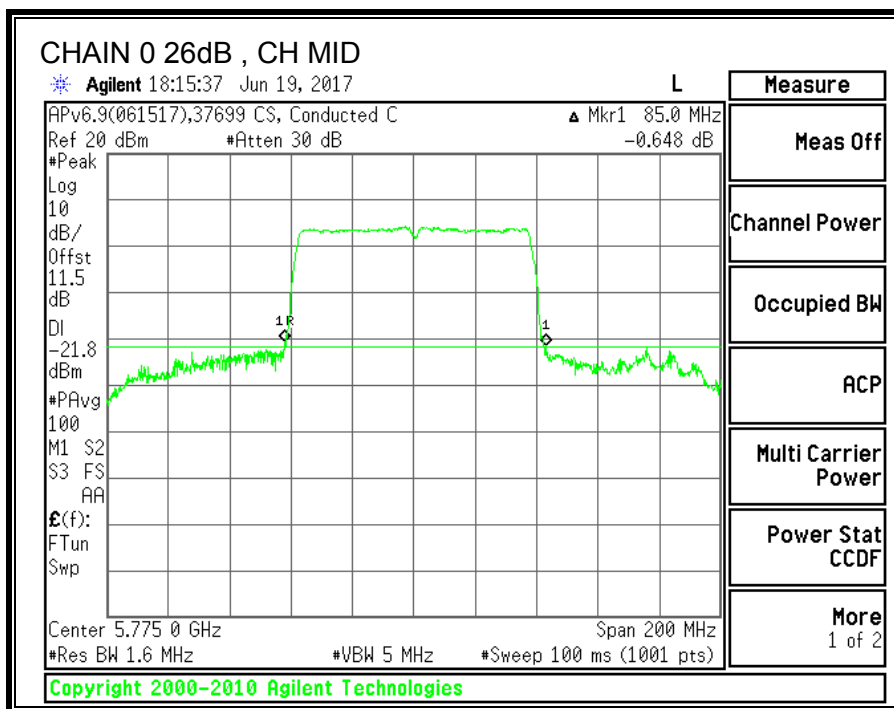
9.16.2. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency	26 dB BW CHAIN 0 (MHz)	26 dB BW CHAIN 1 (MHz)
155	5775	85.0	82.4



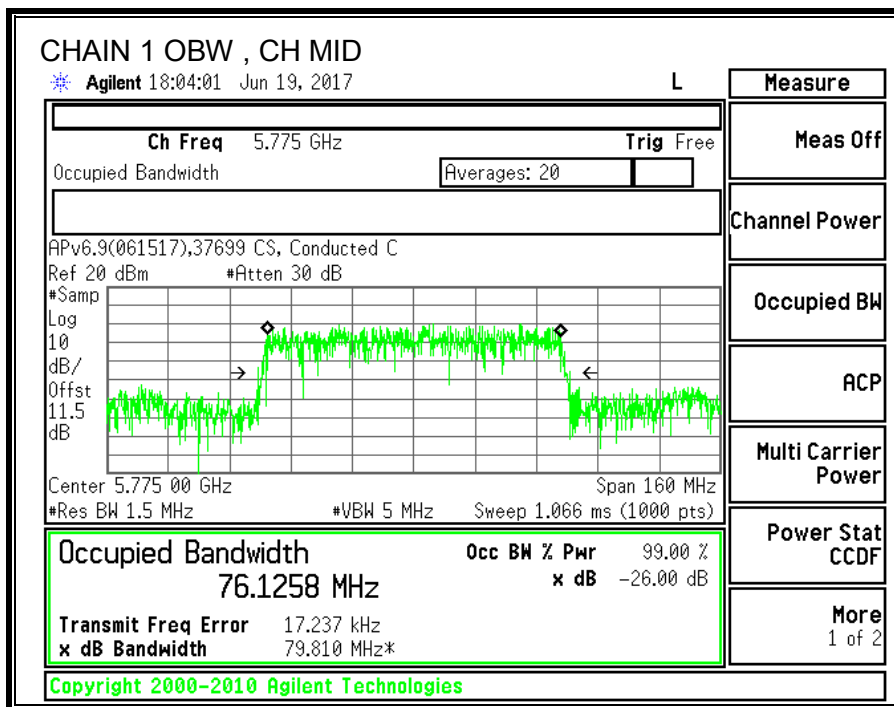
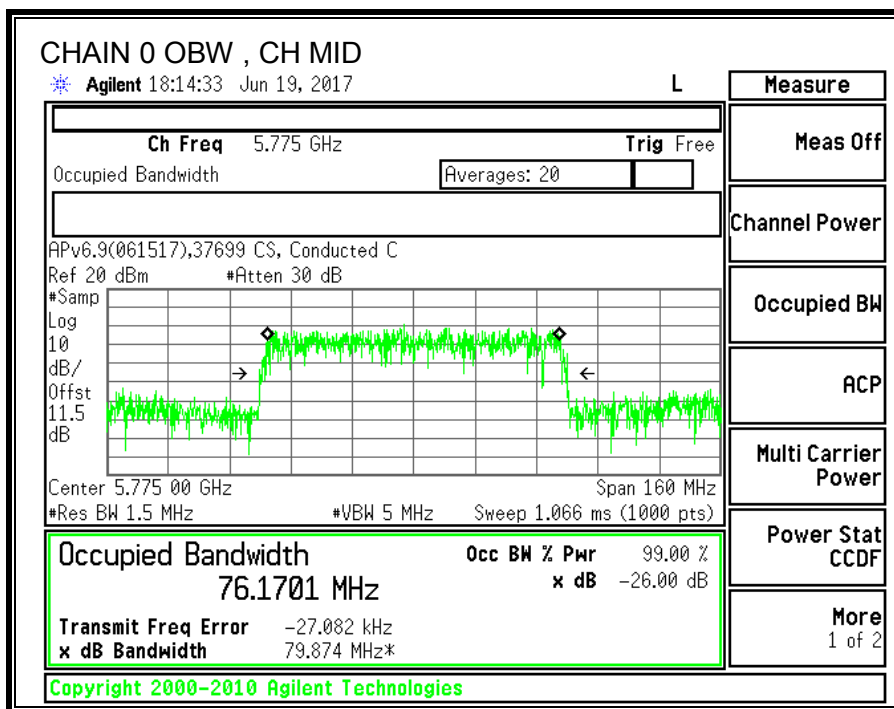
9.16.3. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency	99% BW CHAIN 0 (MHz)	99% BW CHAIN 1 (MHz)
155	5775	76.1701	76.1258



9.16.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (3)

IC RSS-247 (6.2.4) (1)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)	Correlated Chains Directional Gain (dBi)
4.40	4.50	4.45	7.46

RESULTS

ID:	37699 CS	Date:	06/16/17
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Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
155	5775	82.40	76.13	4.45	7.46

Limits

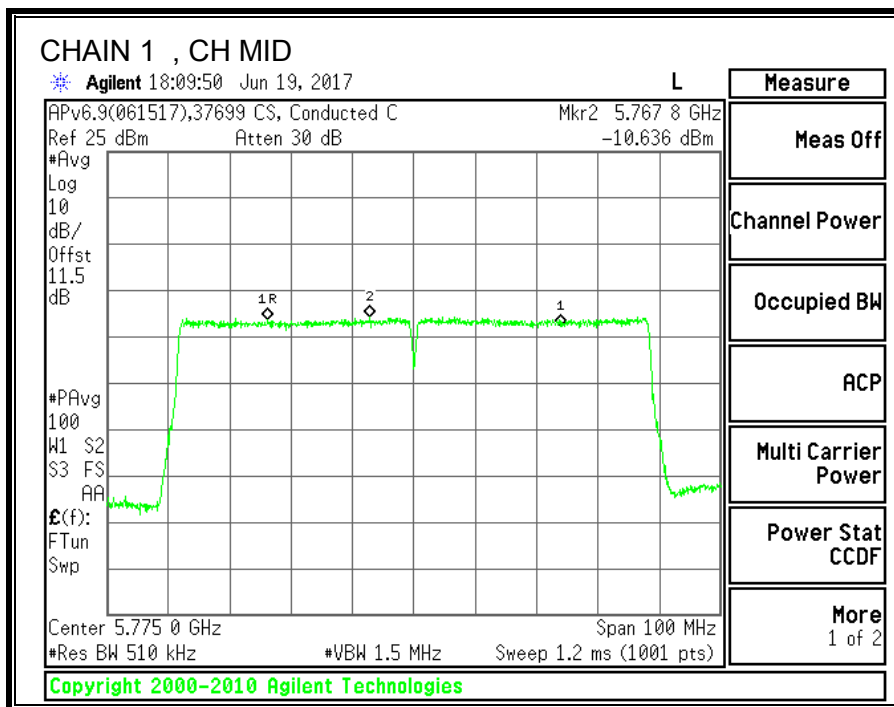
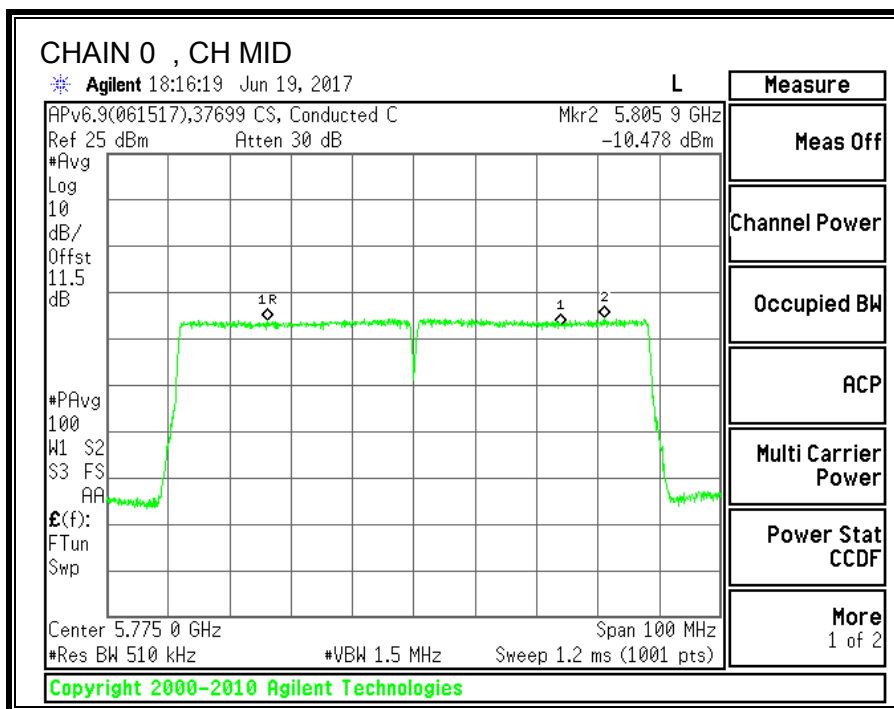
Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
155	5775	30.00	30.00	36.00	30.00	30.00	17.00	17.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
155	5775	9.96	9.51	12.75	30.00	-17.25

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
155	5775	-10.48	-10.64	-7.55	17.00	-24.55



10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-GEN, Section 8.9 and 8.10.

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

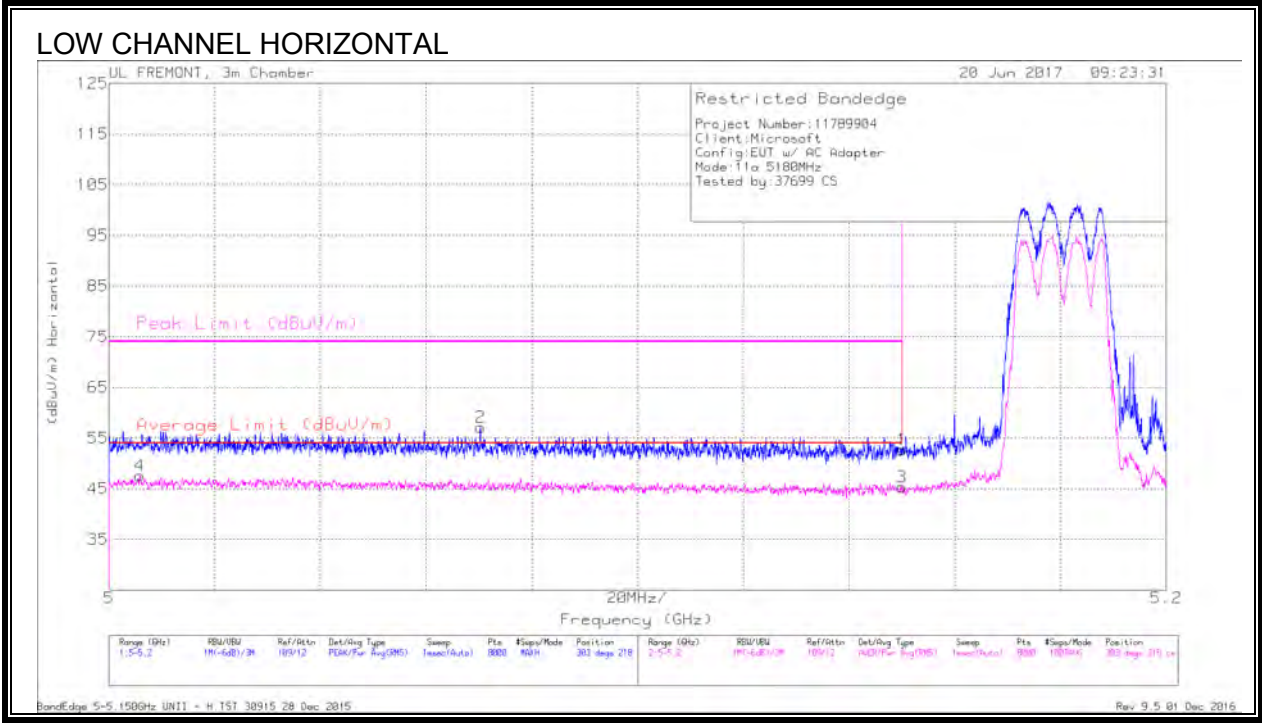
For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and RMS for average measurements.

The spectrum from 30 MHz to 1GHz and 18GHz to 40 GHz is investigated with the transmitter set to transmit at the channel with highest output power as worst-case scenario. 1GHz to 18GHz was set to the lowest, middle, and highest channels in the 5 GHz bands.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

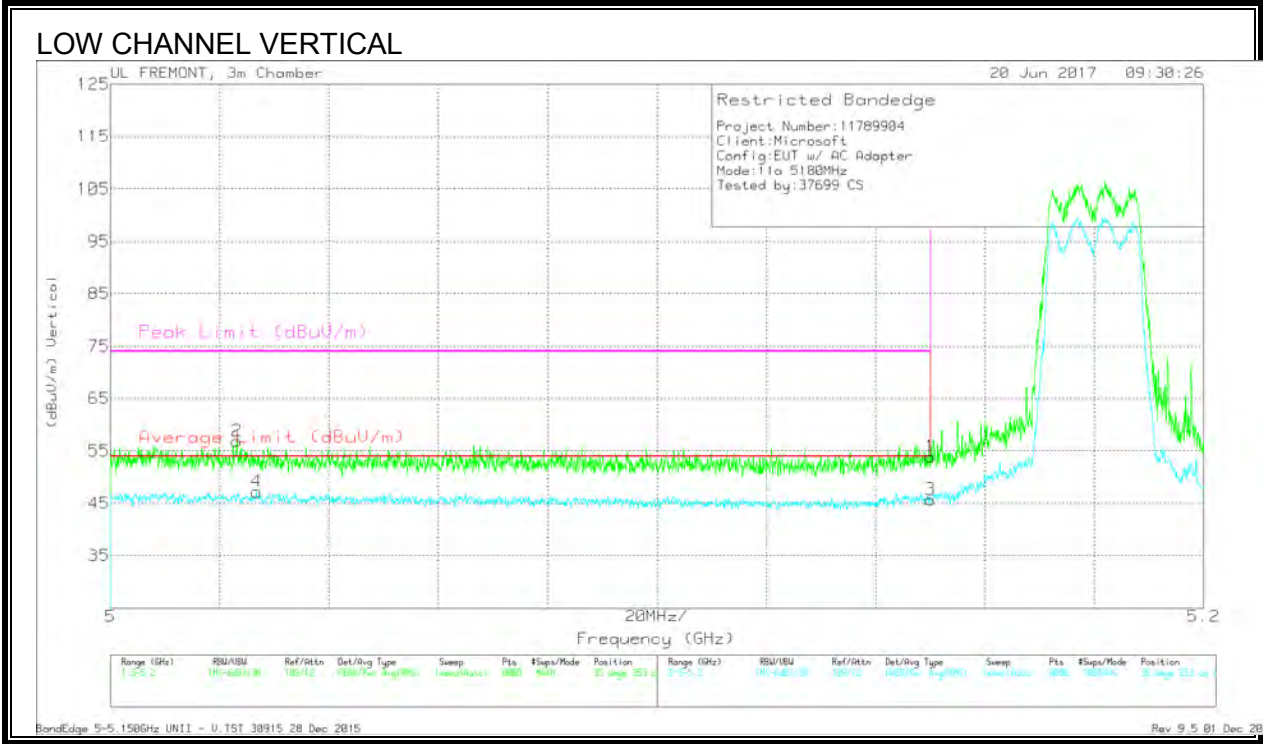
10.1.1. 11a 2TX MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cb/Fltr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
4	5.006	32.58	RMS	34.1	-19.1	47.58	54	-6.42	-	-	303	218	H
2	5.07	42.21	Pk	34.1	-19.2	57.11	-	-	74	-16.89	303	218	H
1	5.15	38.04	Pk	34.2	-19.6	52.64	-	-	74	-21.36	303	218	H
3	5.15	30.73	RMS	34.2	-19.6	45.33	54	-8.67	-	-	303	218	H

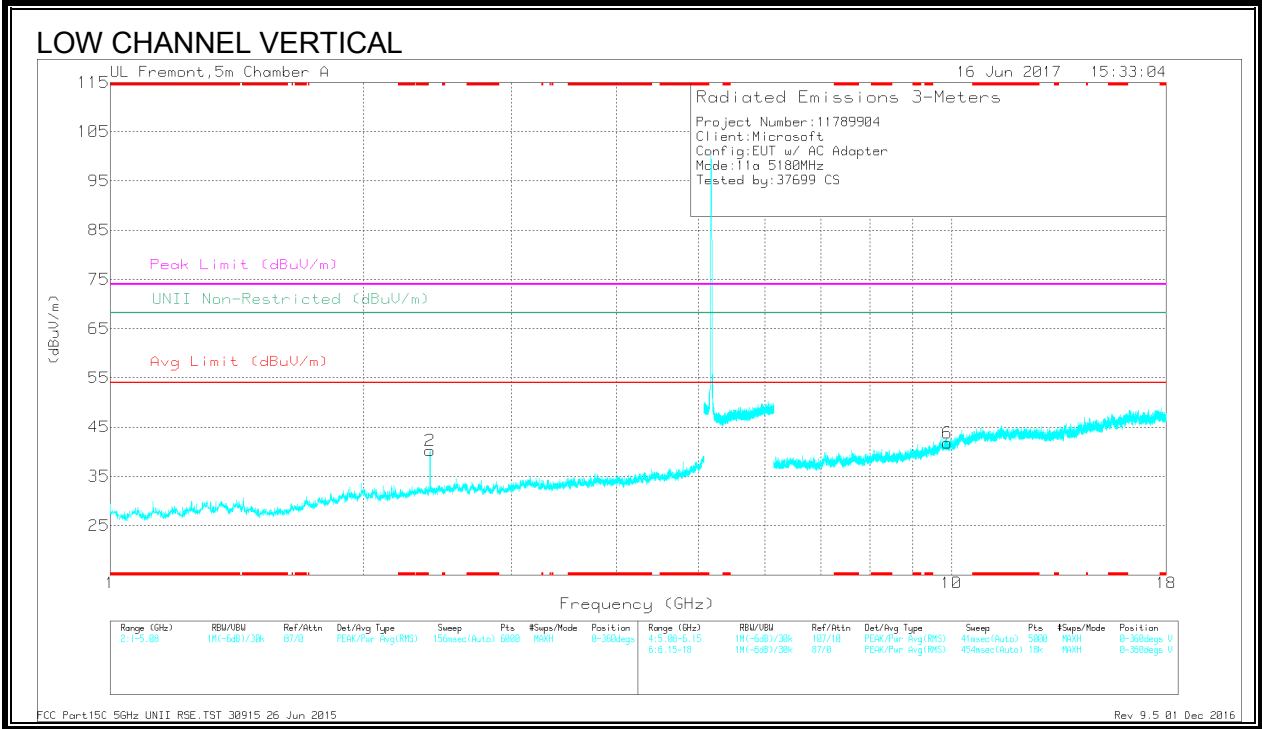
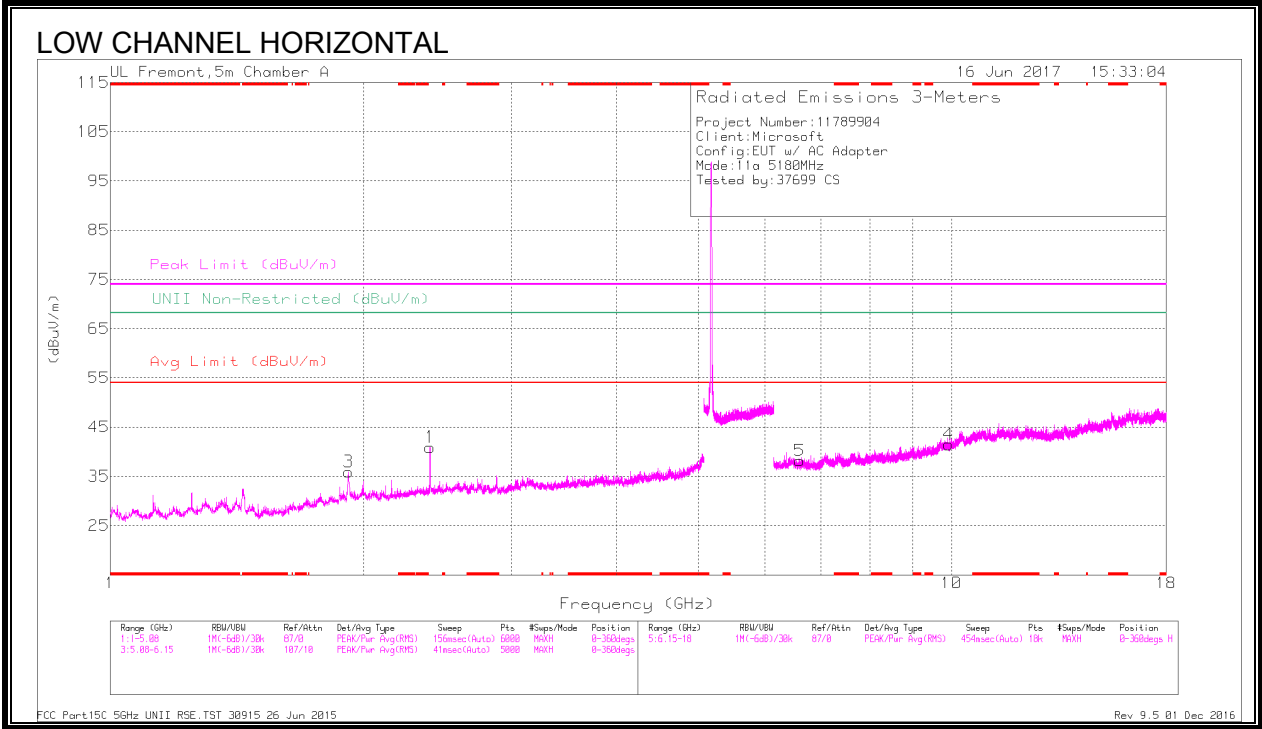
Pk - Peak detector
RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.023	42.1	Pk	34.1	-19.3	56.9	-	-	74	-17.1	35	253	V
4	5.027	32.24	RMS	34.1	-19.2	47.14	54	-6.86	-	-	35	253	V
1	5.15	39.28	Pk	34.2	-19.6	53.88	-	-	74	-20.12	35	253	V
3	5.15	31.05	RMS	34.2	-19.6	45.65	54	-8.35	-	-	35	253	V

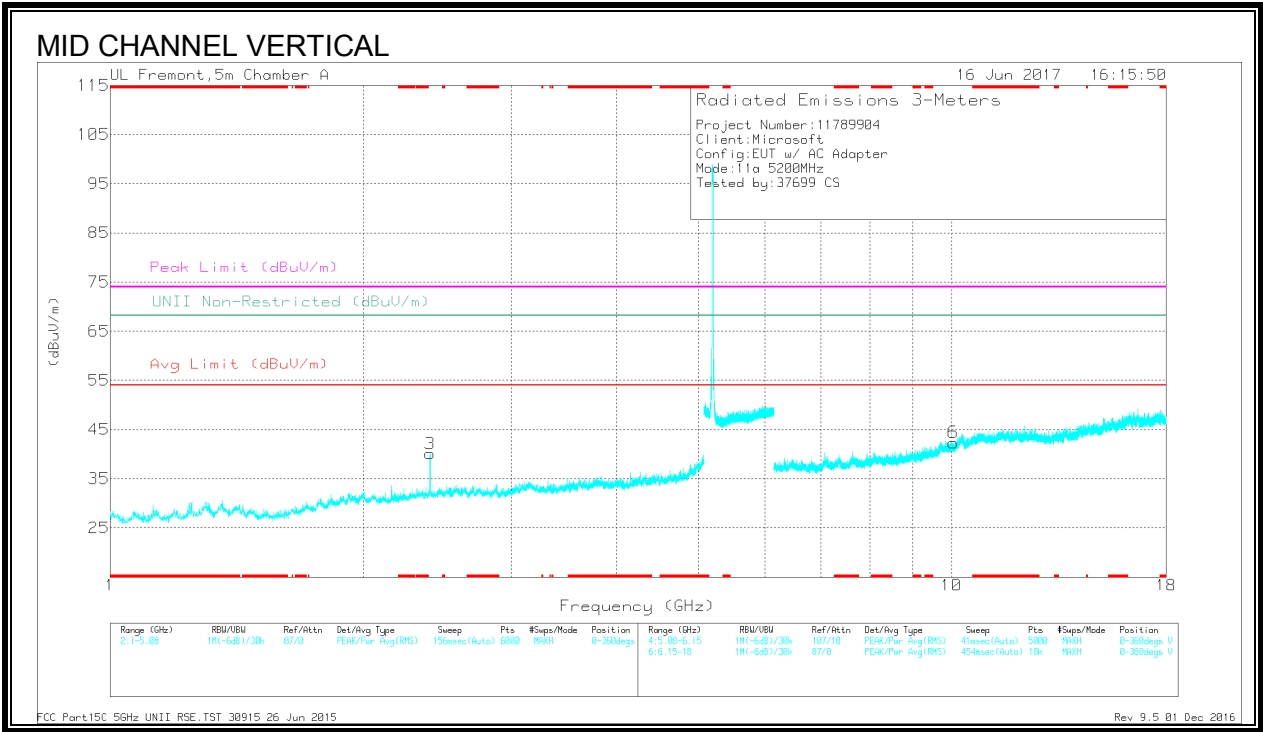
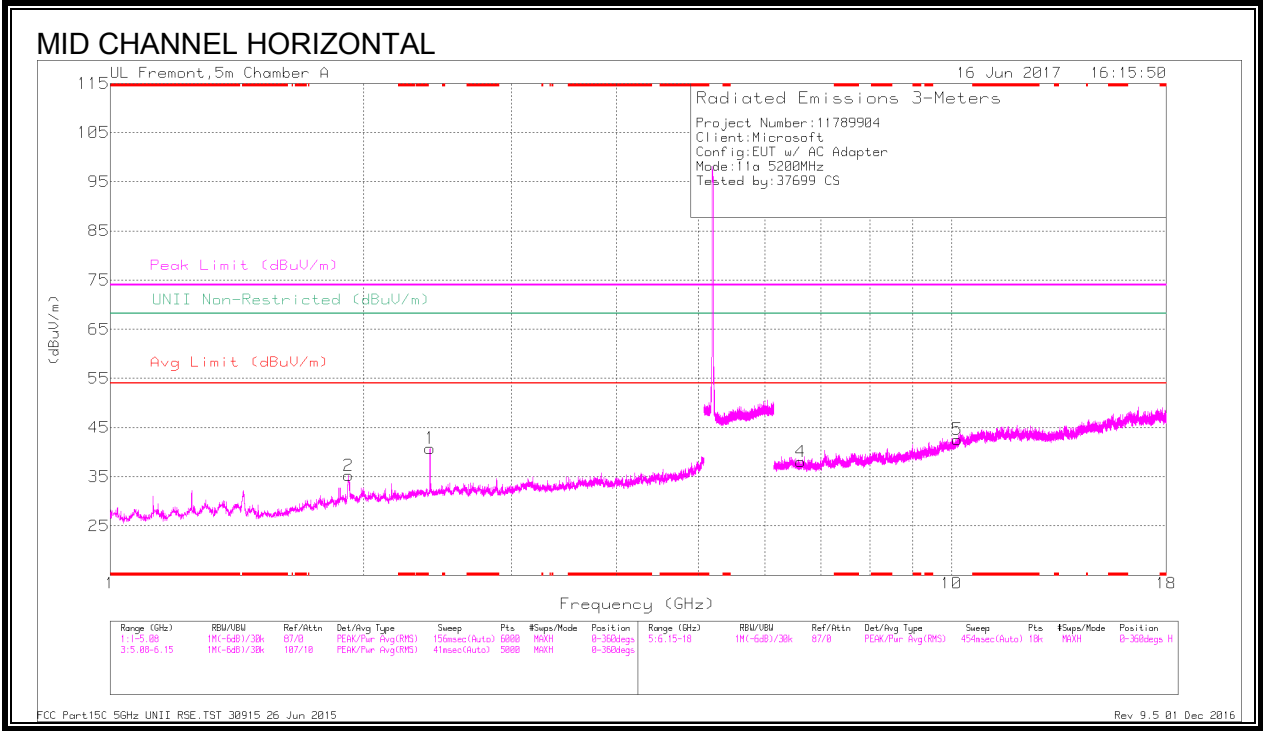
Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



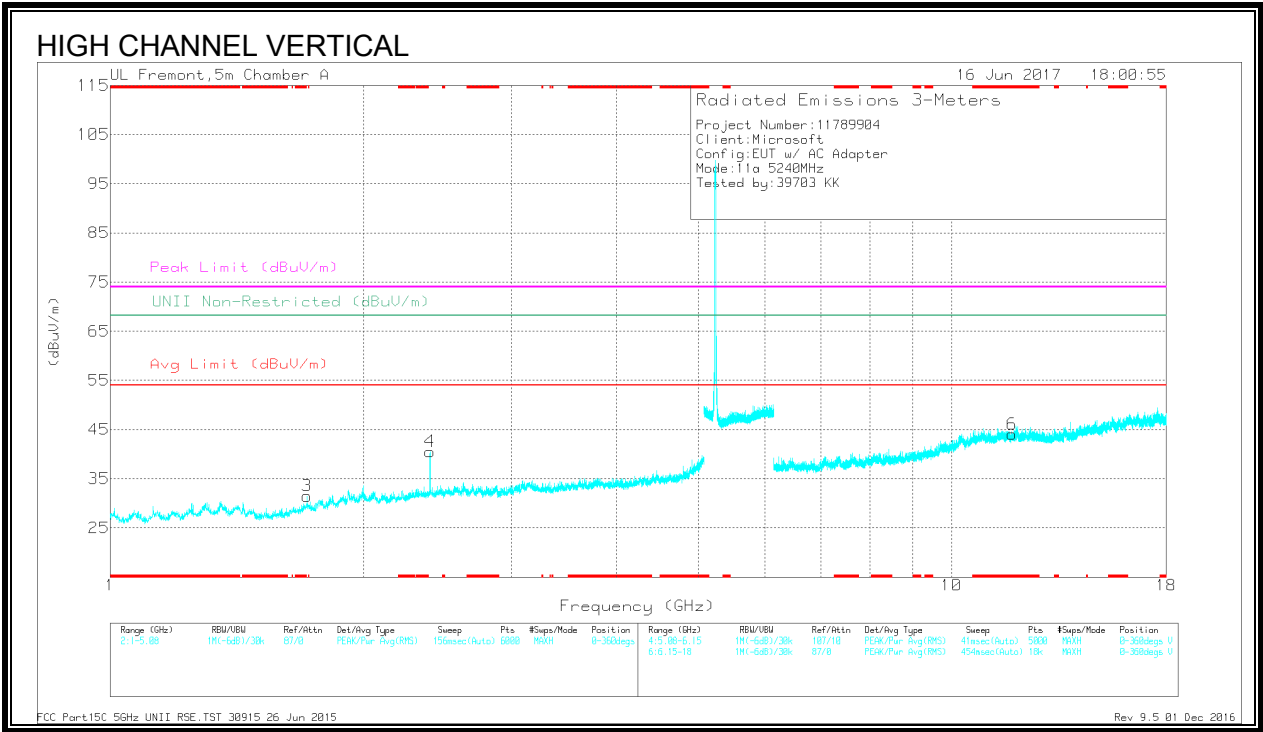
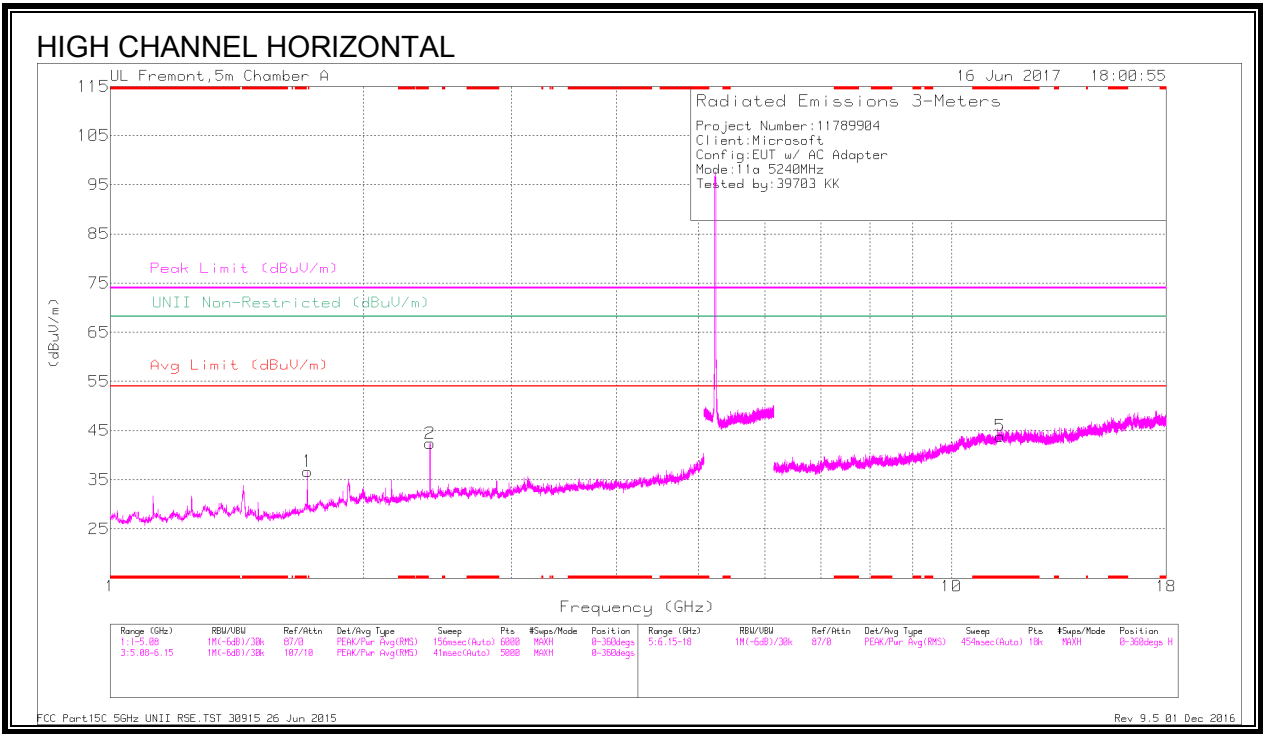
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Dege)	Height (cm)	Polarity
3	1.92	51.93	PK-U	31.3	-33.3	49.93	-	-	-	-	68.2	-18.27	171	163	H
1	2.4	47.98	PK-U	32.1	-32.2	47.88	-	-	-	-	68.2	-20.32	175	135	H
2	2.401	44.89	PK-U	32.1	-32.2	44.79	-	-	-	-	68.2	-23.41	191	251	V
5	6.603	34.61	PK-U	35.6	-26.2	44.01	-	-	-	-	68.2	-24.19	171	187	H
6	9.891	33	PK-U	36.9	-21.6	48.3	-	-	-	-	68.2	-19.9	50	101	V
4	9.923	32.18	PK-U	36.9	-21.6	47.48	-	-	-	-	68.2	-20.72	142	220	H

PK-U - U-NII: Maximum Peak



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Filtr/Pad (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	1.92	51.5	PK-U	31.3	-33.3	49.5	-	-	-	-	68.2	-18.7	171	105	H
1	2.4	48.11	PK-U	32.1	-32.2	48.01	-	-	-	-	68.2	-20.19	175	142	H
3	2.4	44.79	PK-U	32.1	-32.3	44.59	-	-	-	-	68.2	-23.61	210	102	V
4	6.626	34.19	PK-U	35.6	-25.9	43.89	-	-	-	-	68.2	-24.31	222	187	H
6	10.048	31.97	PK-U	36.9	-21.1	47.77	-	-	-	-	68.2	-20.43	287	305	V
5	10.161	32.79	PK-U	37	-21.1	48.69	-	-	-	-	68.2	-19.51	300	144	H

PK-U - U-NII: Maximum Peak



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Fitr/Pad (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
5	* 11.421	31.88	PK-U	38	-19.7	50.18	-	-	74	-23.82	-	-	172	101	H
	* 11.424	21.17	ADR	38	-19.7	39.47	54	-14.53	-	-	-	-	172	101	H
6	* 11.805	31.99	PK-U	38.4	-20.1	50.29	-	-	74	-23.71	-	-	172	101	V
	* 11.807	21.13	ADR	38.4	-20.1	39.43	54	-14.57	-	-	-	-	172	101	V
3	1.714	40.26	PK-U	29.4	-32.8	36.86	-	-	-	-	68.2	-31.34	308	126	V
1	1.716	40.93	PK-U	29.4	-32.8	37.53	-	-	-	-	68.2	-30.67	75	230	H
2	2.4	47.45	PK-U	32.1	-32.3	47.25	-	-	-	-	68.2	-20.95	172	147	H
4	2.401	45.53	PK-U	32.1	-32.2	45.43	-	-	-	-	68.2	-22.77	172	101	V

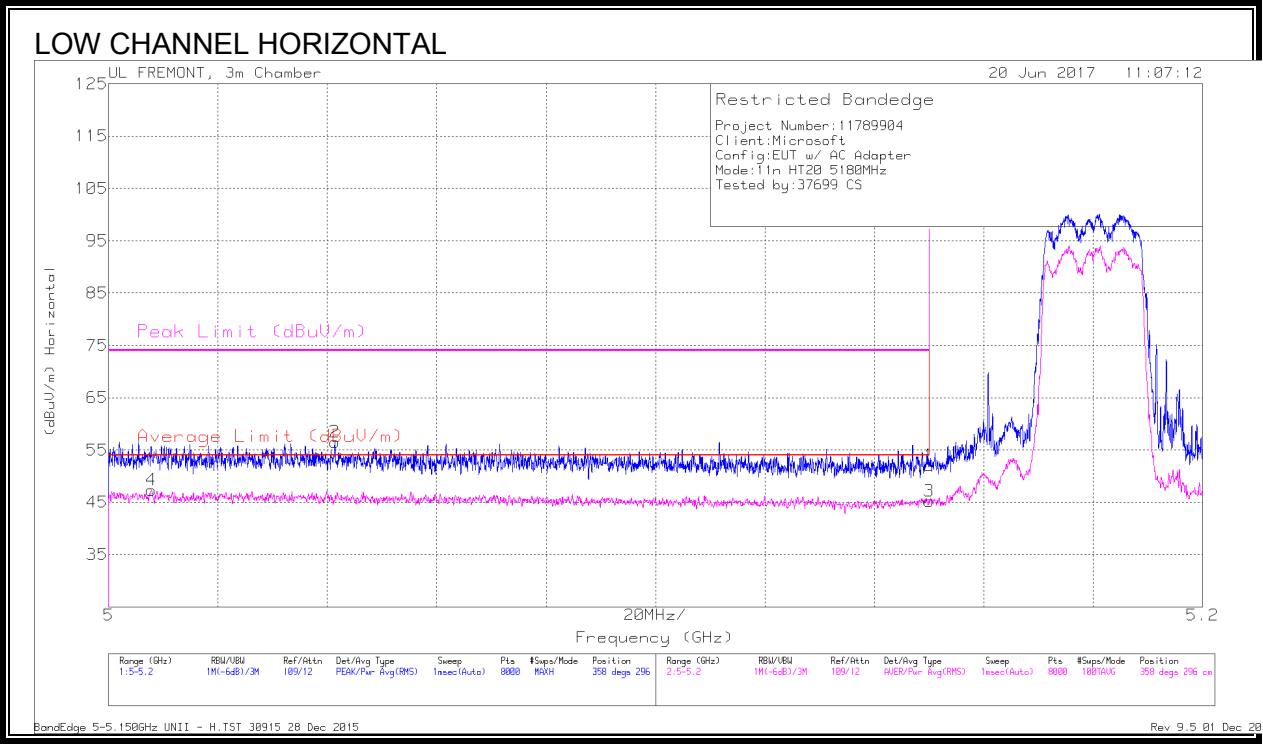
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

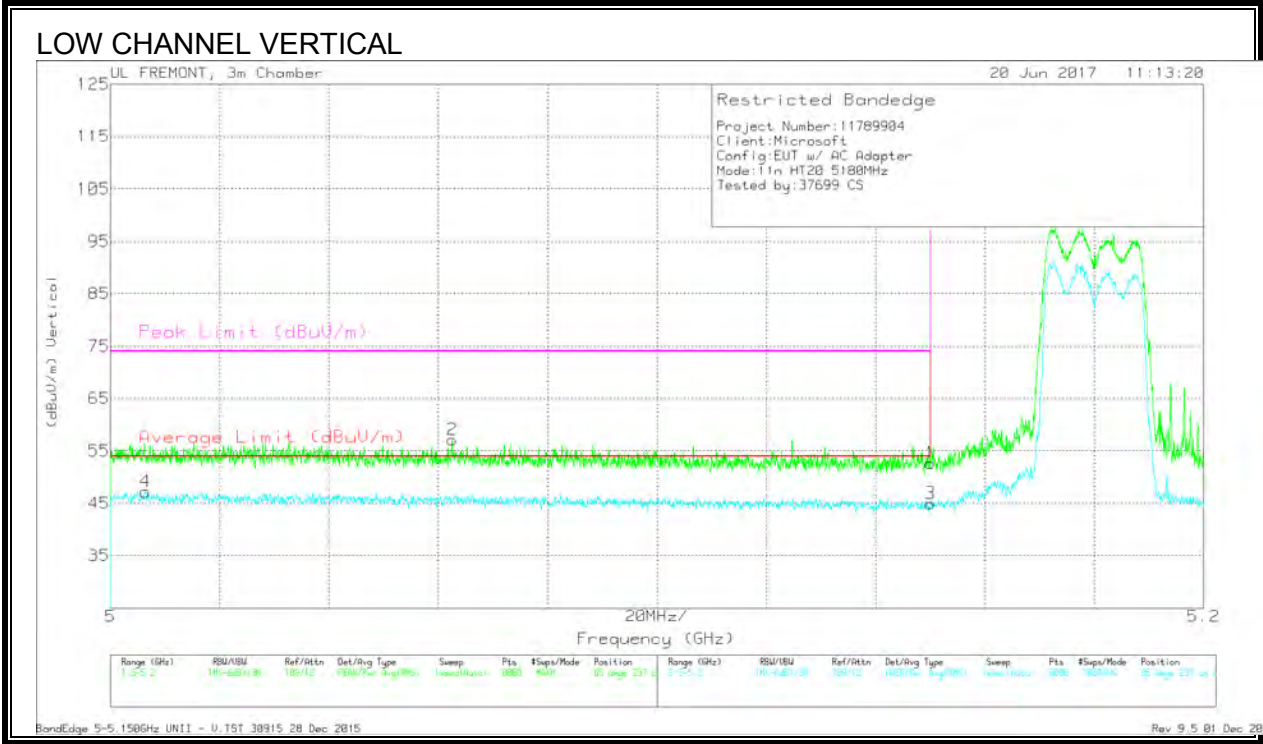
10.1.2. 11n HT20 2TX MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	5.008	32.29	RMS	34.1	-19.1	47.29	54	-6.71	-	-	358	296	H
2	5.041	41.65	Pk	34.1	-19.2	56.55	-	-	74	-17.45	358	296	H
1	5.15	37.44	Pk	34.2	-19.6	52.04	-	-	74	-21.96	358	296	H
3	5.15	30.63	RMS	34.2	-19.6	45.23	54	-8.77	-	-	358	296	H

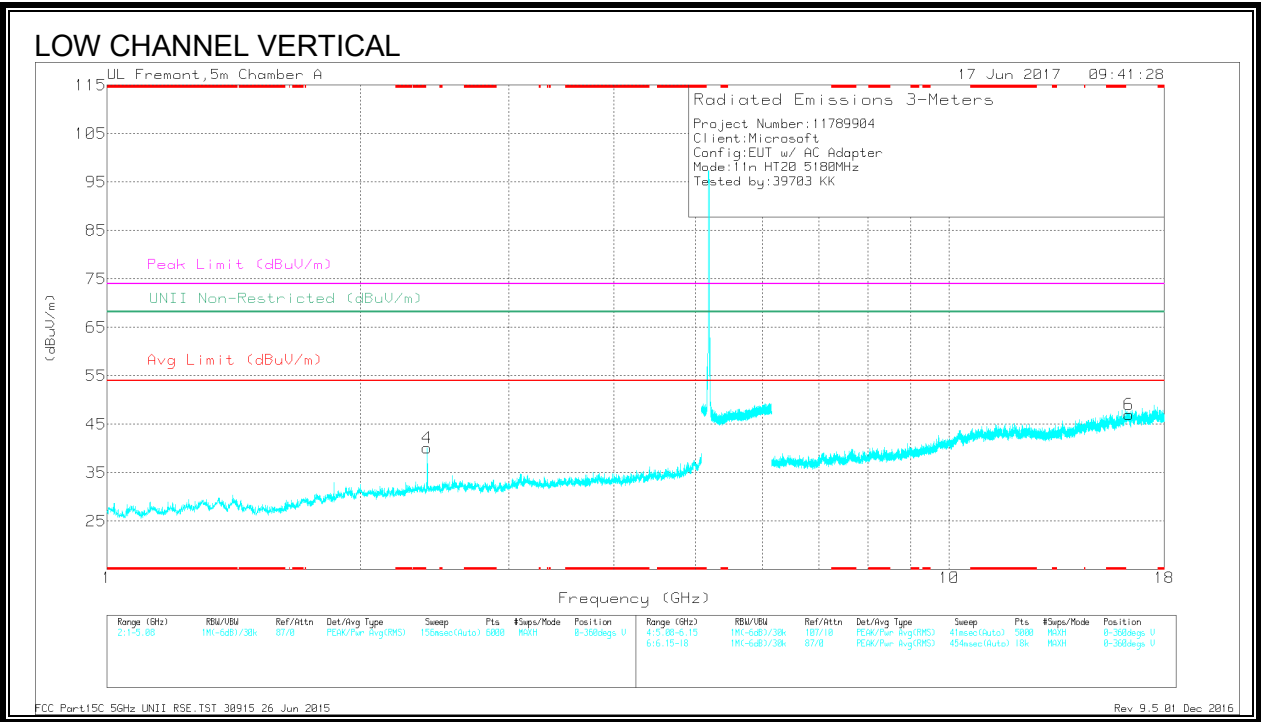
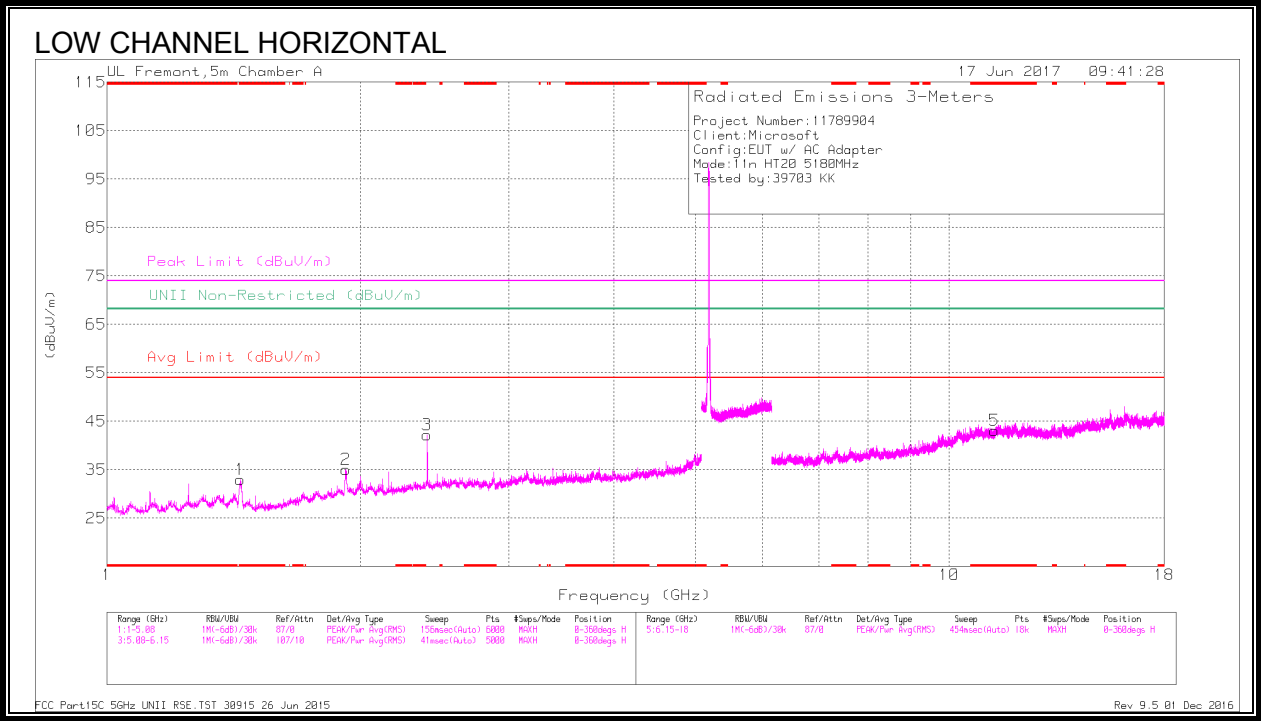
Pk - Peak detector
RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	5.006	32.2	RMS	34.1	-19.1	47.2	54	-6.8	-	-	85	237	V
2	5.063	42.11	PK	34.1	-19.1	57.11	-	-	74	-16.89	85	237	V
1	5.15	38.03	PK	34.2	-19.6	52.63	-	-	74	-21.37	85	237	V
3	5.15	30.33	RMS	34.2	-19.6	44.93	54	-9.07	-	-	85	237	V

Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

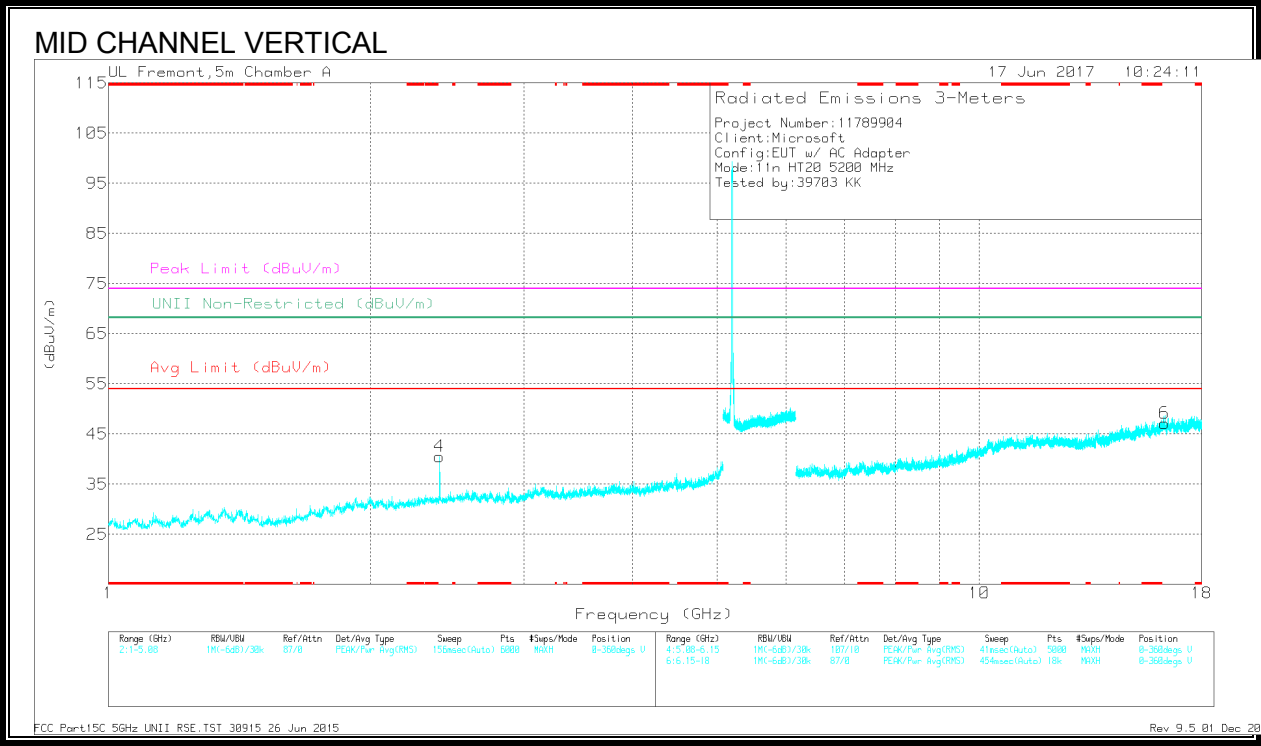
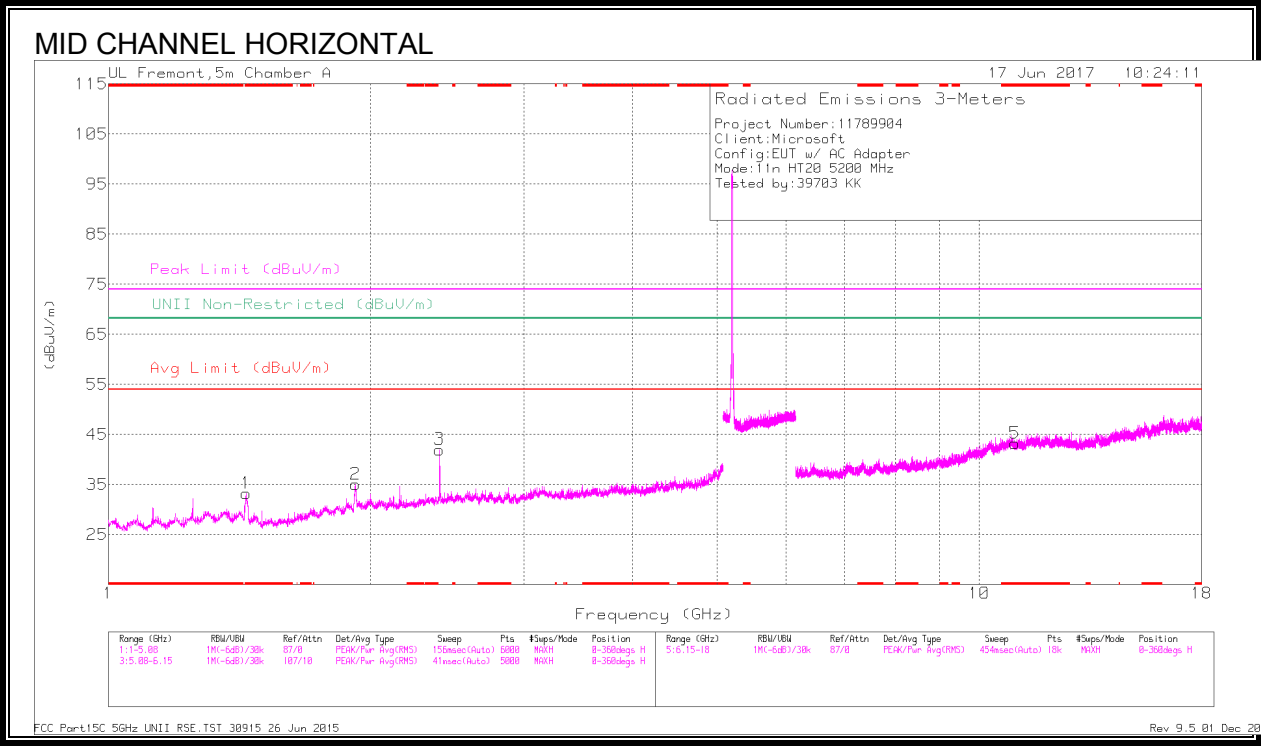


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.441	52.78	PK-U	28.8	-33.6	47.98	-	-	74	-26.02	-	-	212	151	H
	* 1.44	33.56	ADR	28.8	-33.6	28.76	54	-25.24	-	-	-	-	212	151	H
5	* 11.309	31.79	PK-U	37.9	-19.7	49.99	-	-	74	-24.01	-	-	172	102	H
	* 11.31	20.67	ADR	37.9	-19.6	38.97	54	-15.03	-	-	-	-	172	102	H
2	1.919	52.46	PK-U	31.3	-33.3	50.46	-	-	-	-	68.2	-17.74	166	175	H
3	2.4	48.36	PK-U	32.1	-32.3	48.16	-	-	-	-	68.2	-20.04	168	117	H
4	2.4	45.83	PK-U	32.1	-32.2	45.73	-	-	-	-	68.2	-22.47	172	122	V
6	16.343	32.18	PK-U	41.4	-20	53.58	-	-	-	-	68.2	-14.62	172	102	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

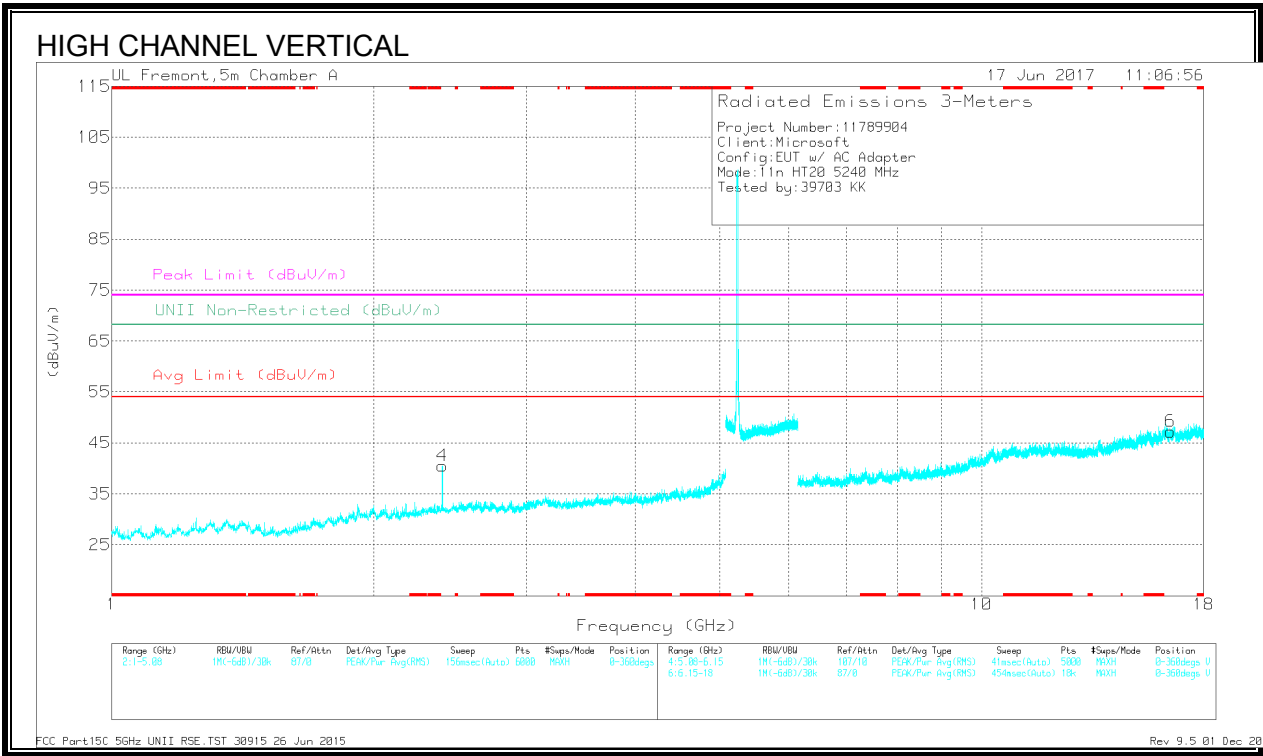
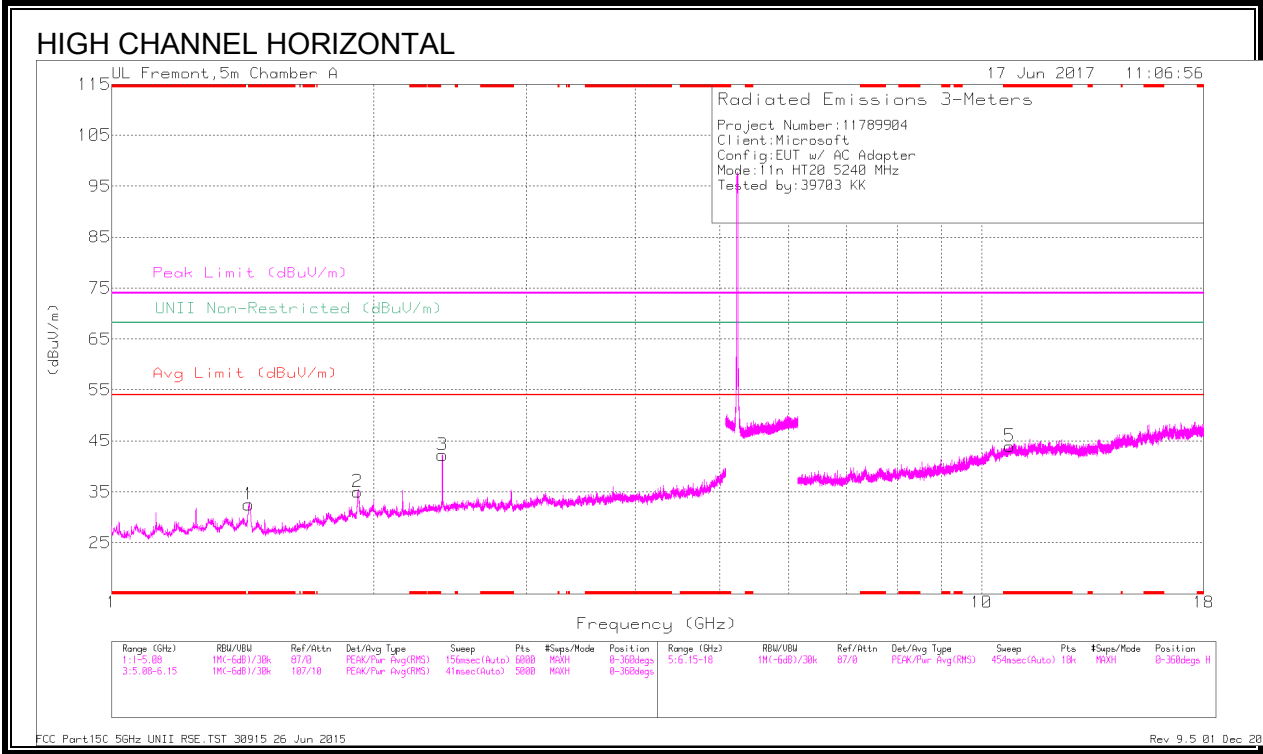


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Dege)	Height (cm)	Polarity
1	* 1.44	52.09	PK-U	28.8	-33.6	47.29	-	-	74	-26.71	-	-	213	137	H
	* 1.44	32.98	ADR	28.8	-33.6	28.18	54	-25.82	-	-	-	-	213	137	H
5	* 10.986	32.23	PK-U	37.8	-20.3	49.73	-	-	74	-24.27	-	-	170	199	H
	* 10.985	21.29	ADR	37.8	-20.3	38.79	54	-15.21	-	-	-	-	170	199	H
2	1.921	52.07	PK-U	31.3	-33.3	50.07	-	-	-	-	68.2	-18.13	163	167	H
3	2.4	48.26	PK-U	32.1	-32.3	48.06	-	-	-	-	68.2	-20.14	171	148	H
4	2.4	45.81	PK-U	32.1	-32.3	45.61	-	-	-	-	68.2	-22.59	170	124	V
6	16.315	32.22	PK-U	41.4	-20.4	53.22	-	-	-	-	68.2	-14.98	170	102	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Filt/Pad (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 (Dege)	Height (cm)	Polarity
1	* 1.439	52.84	PK-U	28.8	-33.5	48.14	-	-	74	-25.86	-	-	210	115	H
	* 1.439	31.85	ADR	28.8	-33.5	27.15	54	-26.85	-	-	-	-	210	115	H
5	* 10.773	32.12	PK-U	37.9	-20.3	49.72	-	-	74	-24.28	-	-	171	199	H
	* 10.772	21.45	ADR	37.9	-20.3	39.05	54	-14.95	-	-	-	-	171	199	H
2	1.919	49.99	PK-U	31.3	-33.3	47.99	-	-	-	-	68.2	-20.21	210	103	H
3	2.4	48.23	PK-U	32.1	-32.3	48.03	-	-	-	-	68.2	-20.17	169	118	H
4	2.4	45.99	PK-U	32.1	-32.3	45.79	-	-	-	-	68.2	-22.41	171	102	V
6	16.479	32.69	PK-U	41.6	-20.1	54.19	-	-	-	-	68.2	-14.01	171	199	V

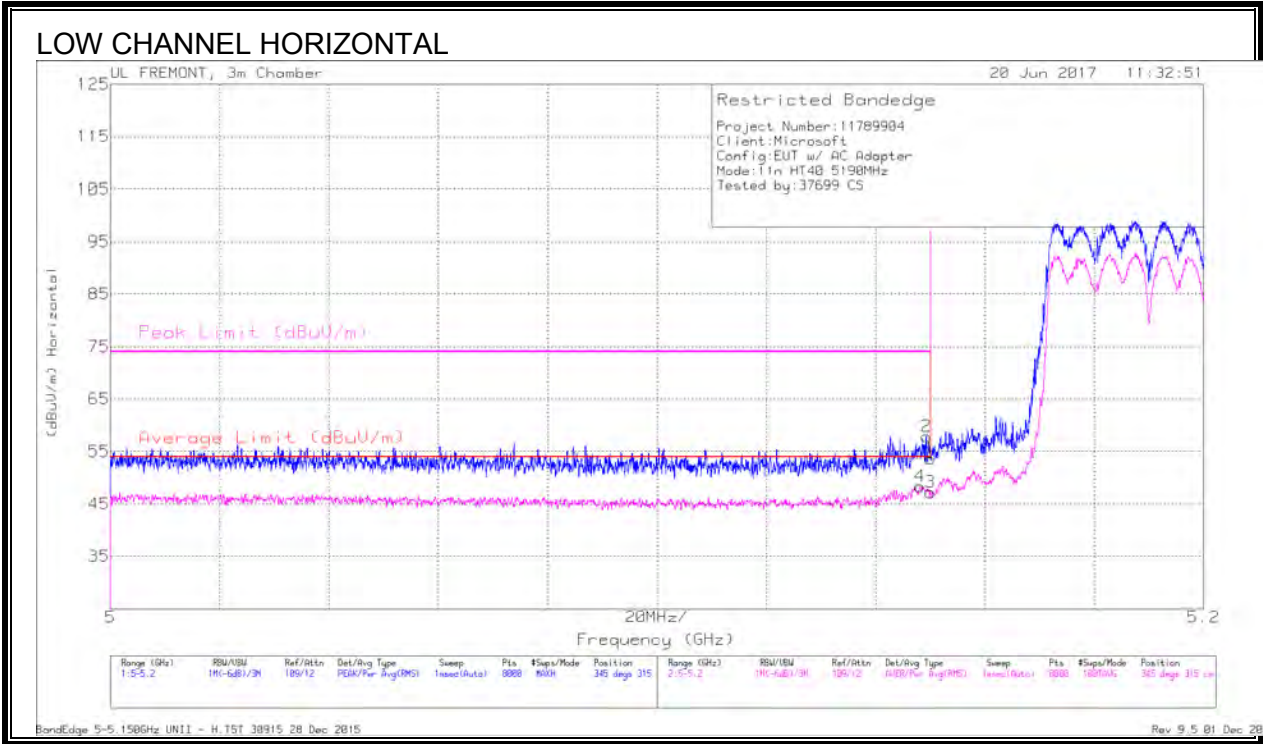
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

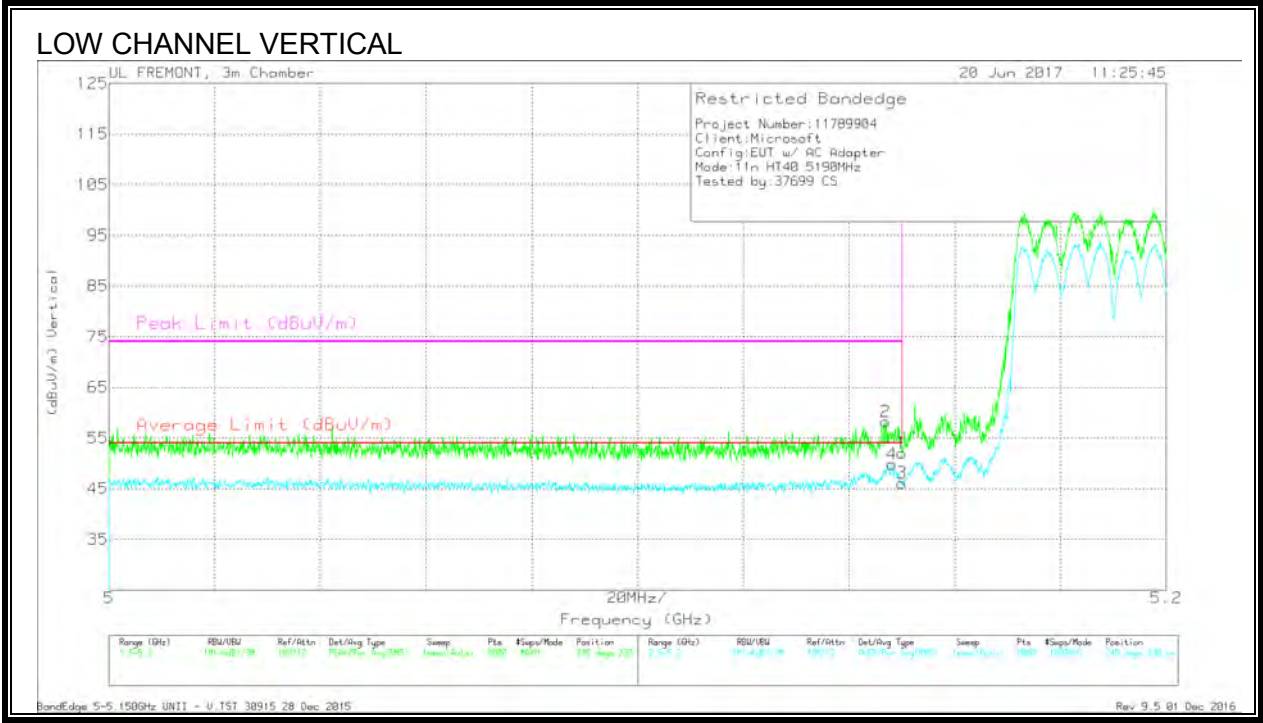
10.1.3. 11n HT40 2TX MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	5.148	33.69	RMS	34.2	-19.6	48.29	54	-5.71	-	-	345	315	H
2	5.149	43.22	Pk	34.2	-19.6	57.82	-	-	74	-16.18	345	315	H
1	5.15	39.08	Pk	34.2	-19.6	53.68	-	-	74	-20.32	345	315	H
3	5.15	32.56	RMS	34.2	-19.6	47.16	54	-6.84	-	-	345	315	H

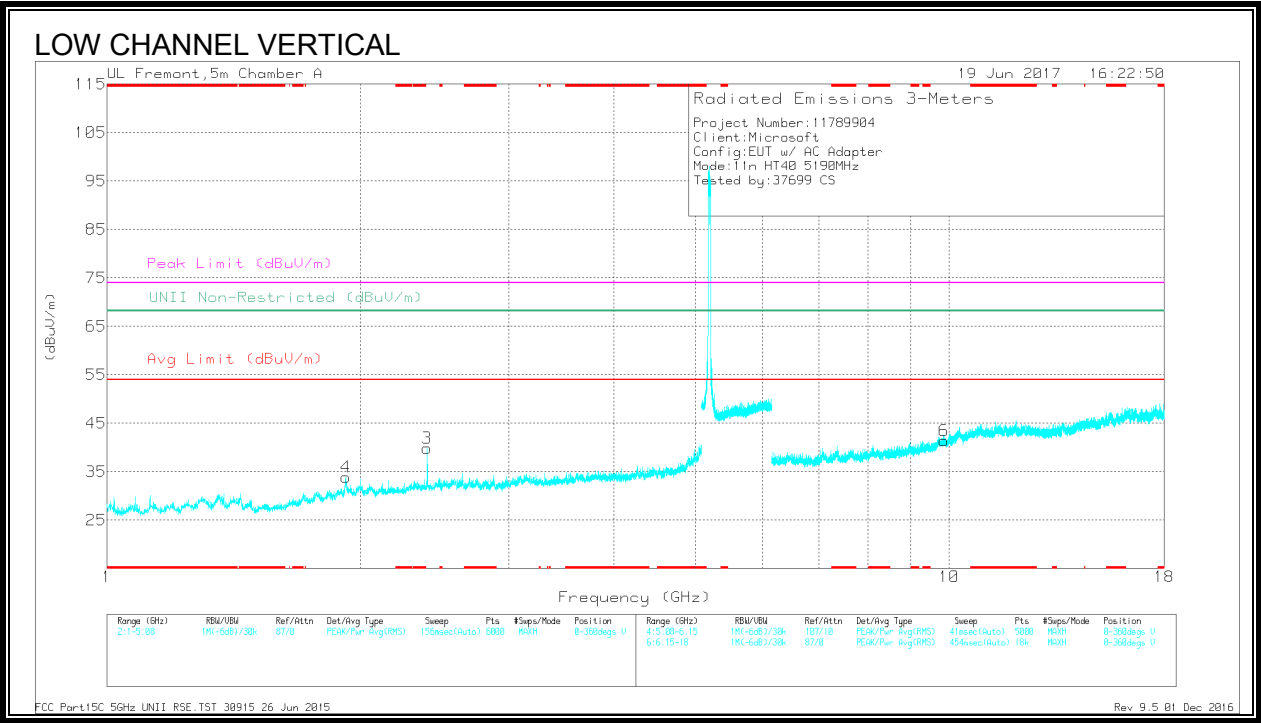
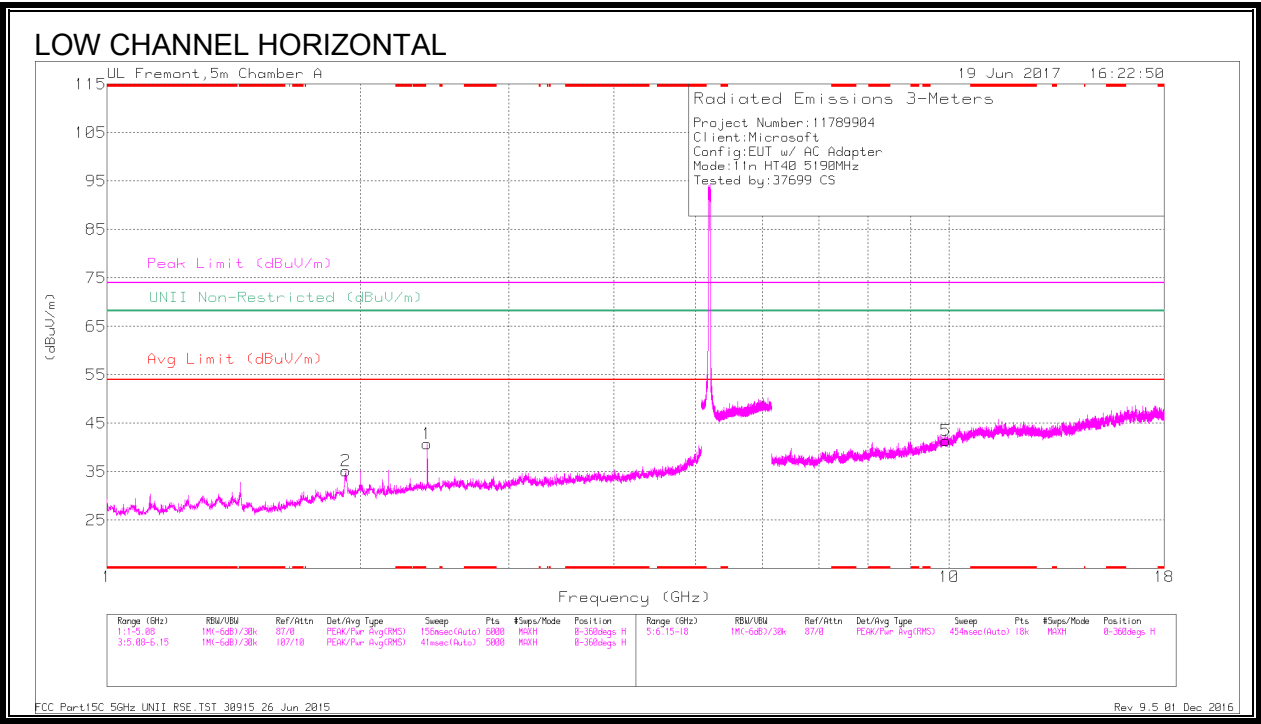
Pk - Peak detector
RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.147	43.6	Pk	34.2	-19.6	58.2	-	-	74	-15.8	249	230	V
4	5.148	35.18	RMS	34.2	-19.6	49.78	54	-4.22	-	-	249	230	V
1	5.15	37.48	Pk	34.2	-19.6	52.08	-	-	74	-21.92	249	230	V
3	5.15	31.53	RMS	34.2	-19.6	46.13	54	-7.87	-	-	249	230	V

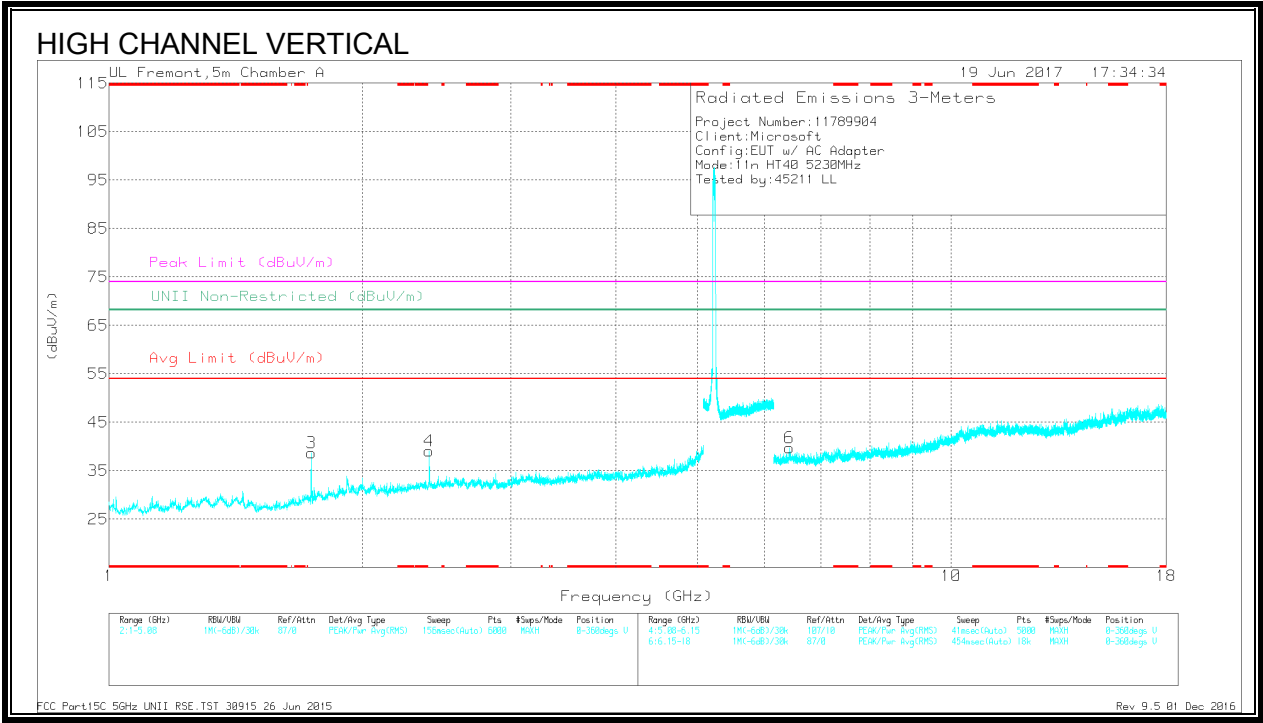
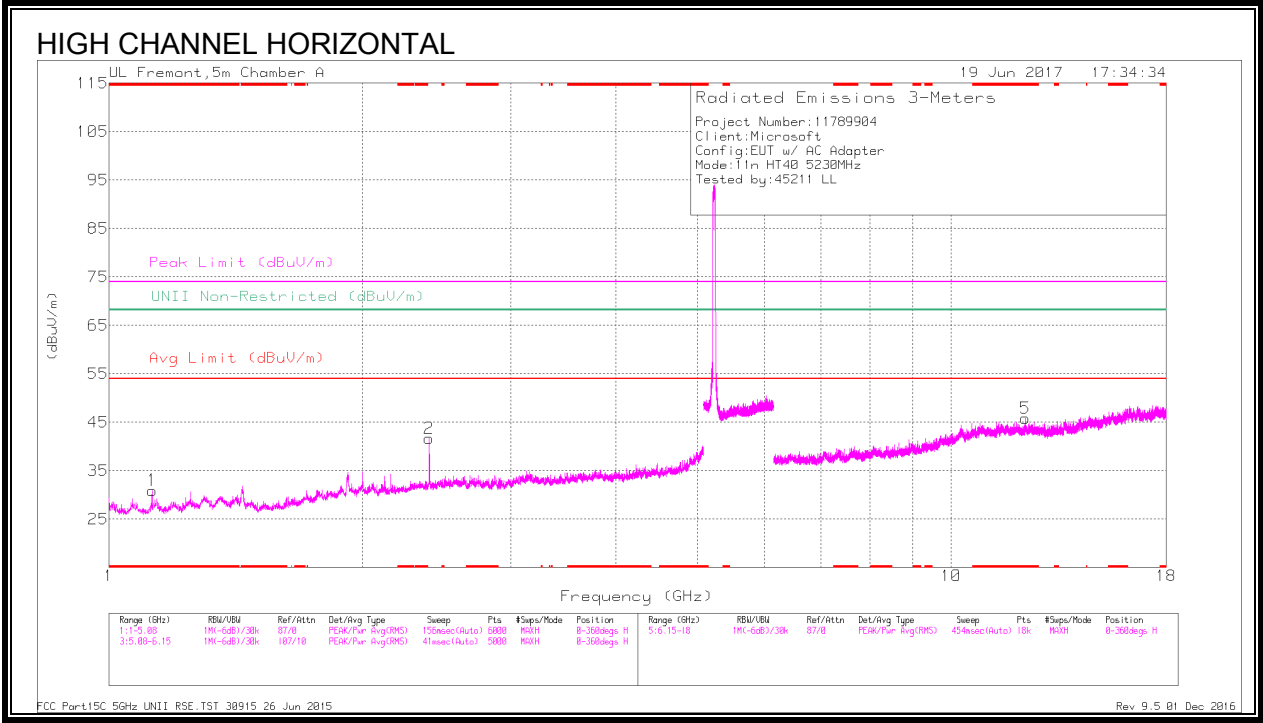
Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Filtr/Pad (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
4	1.919	49.7	PK-U	31.3	-33.3	47.7	-	-	-	-	68.2	-20.5	214	101	V
2	1.921	52.87	PK-U	31.3	-33.3	50.87	-	-	-	-	68.2	-17.33	354	107	H
1	2.4	48.24	PK-U	32.1	-32.3	48.04	-	-	-	-	68.2	-20.16	136	224	H
3	2.4	45.33	PK-U	32.1	-32.2	45.23	-	-	-	-	68.2	-22.97	271	233	V
6	9.855	32.91	PK-U	36.9	-21.6	48.21	-	-	-	-	68.2	-19.99	87	101	V
5	9.911	32.25	PK-U	36.9	-21.6	47.55	-	-	-	-	68.2	-20.65	146	113	H

PK-U - U-NII: Maximum Peak



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Fitr/Pad (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	* 1.125	42.17	PK-U	28	-33.8	36.37	-	-	74	-37.63	-	-	32	110	H
	* 1.125	34.01	ADR	28	-33.8	28.21	54	-25.79	-	-	-	-	32	110	H
5	* 12.244	32.25	PK-U	38.8	-20.1	50.95	-	-	74	-23.05	-	-	85	101	H
	* 12.241	20.45	ADR	38.8	-20.1	39.15	54	-14.85	-	-	-	-	85	101	H
3	1.74	39.11	PK-U	29.7	-32.8	36.01	-	-	-	-	68.2	-32.19	204	171	V
2	2.4	46.67	PK-U	32.1	-32.2	46.57	-	-	-	-	68.2	-21.63	352	104	H
4	2.4	43.92	PK-U	32.1	-32.2	43.82	-	-	-	-	68.2	-24.38	123	101	V
6	6.421	34.93	PK-U	35.5	-25.4	45.03	-	-	-	-	68.2	-23.17	37	101	V

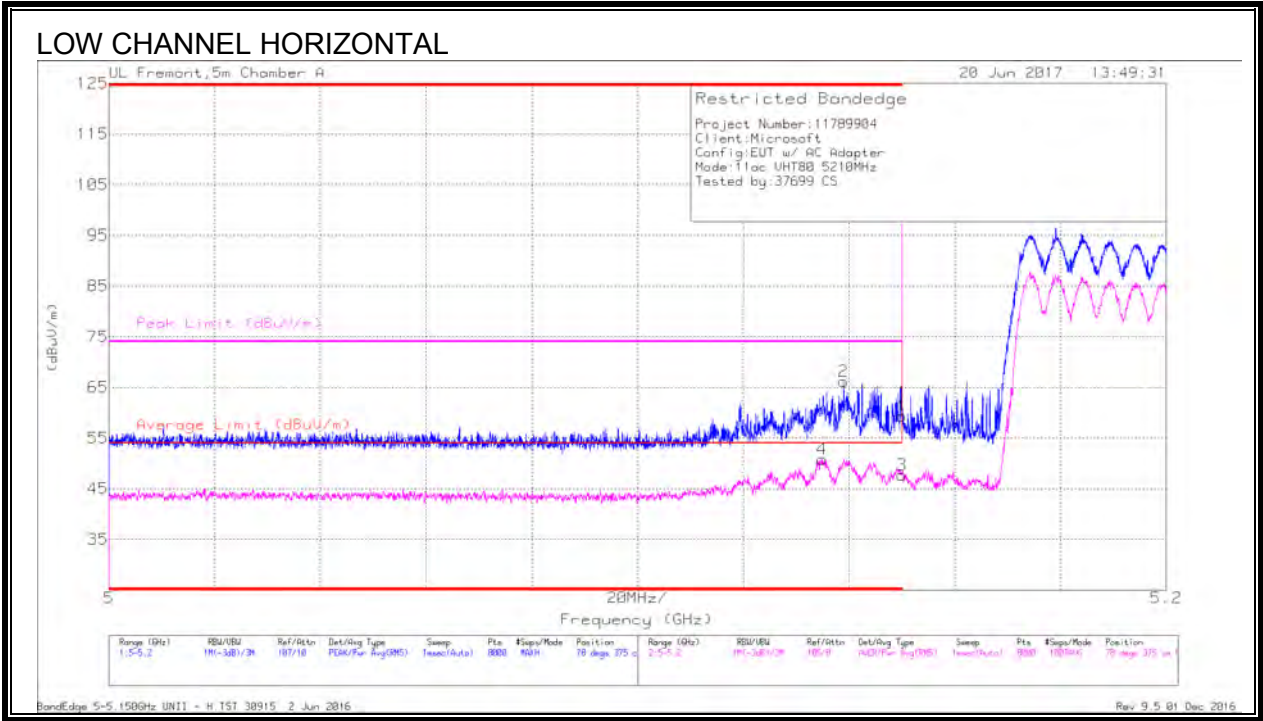
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.4. 11ac VHT80 2TX MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

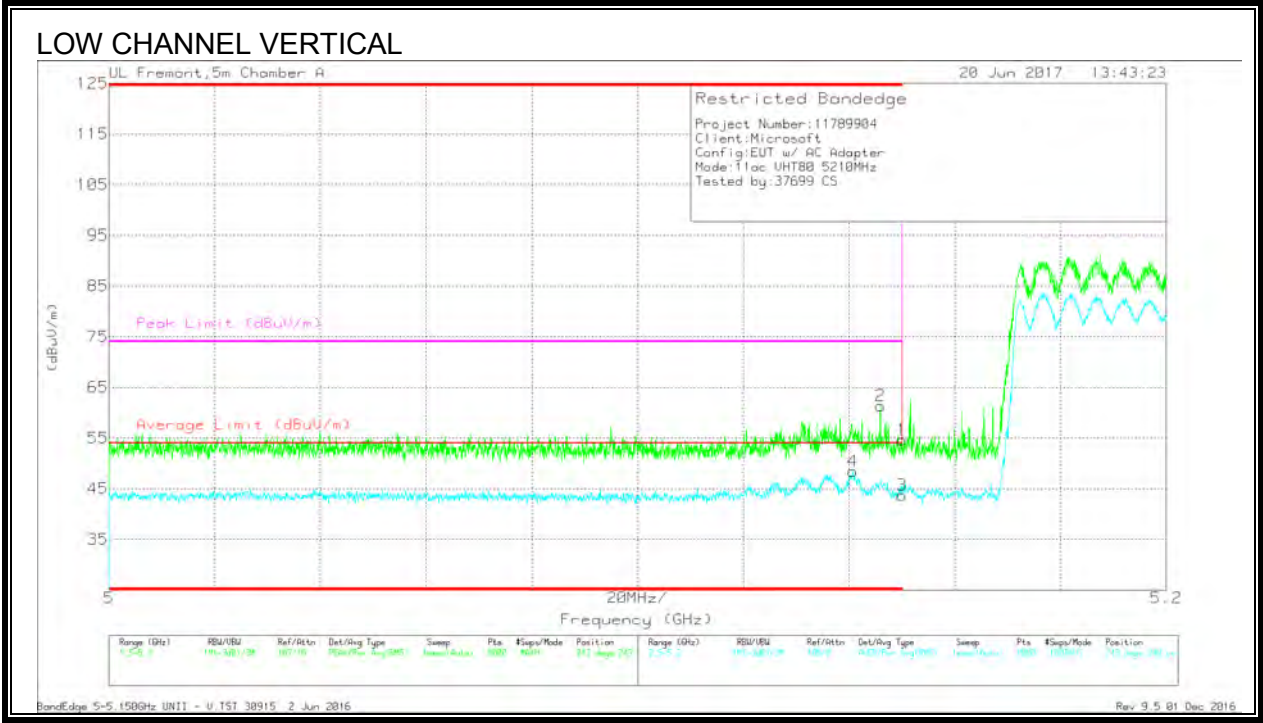


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	44	Pk	34.1	-18.7	59.4	-	-	74	-14.6	78	375	H
2	* 5.139	50.64	Pk	34.1	-18.6	66.14	-	-	74	-7.86	78	375	H
3	* 5.15	32.27	RMS	34.1	-18.7	47.67	54	-6.33	-	-	78	375	H
4	* 5.135	35.34	RMS	34.1	-18.6	50.84	54	-3.16	-	-	78	375	H

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

Pk - Peak detector

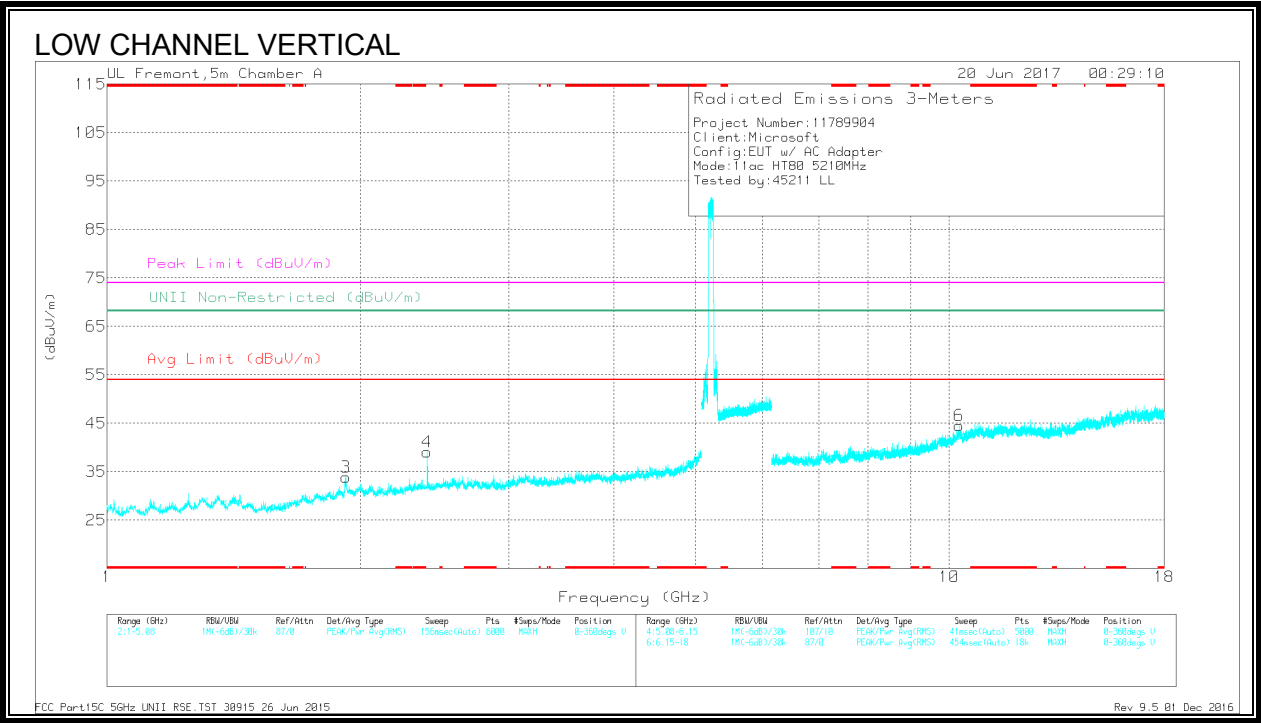
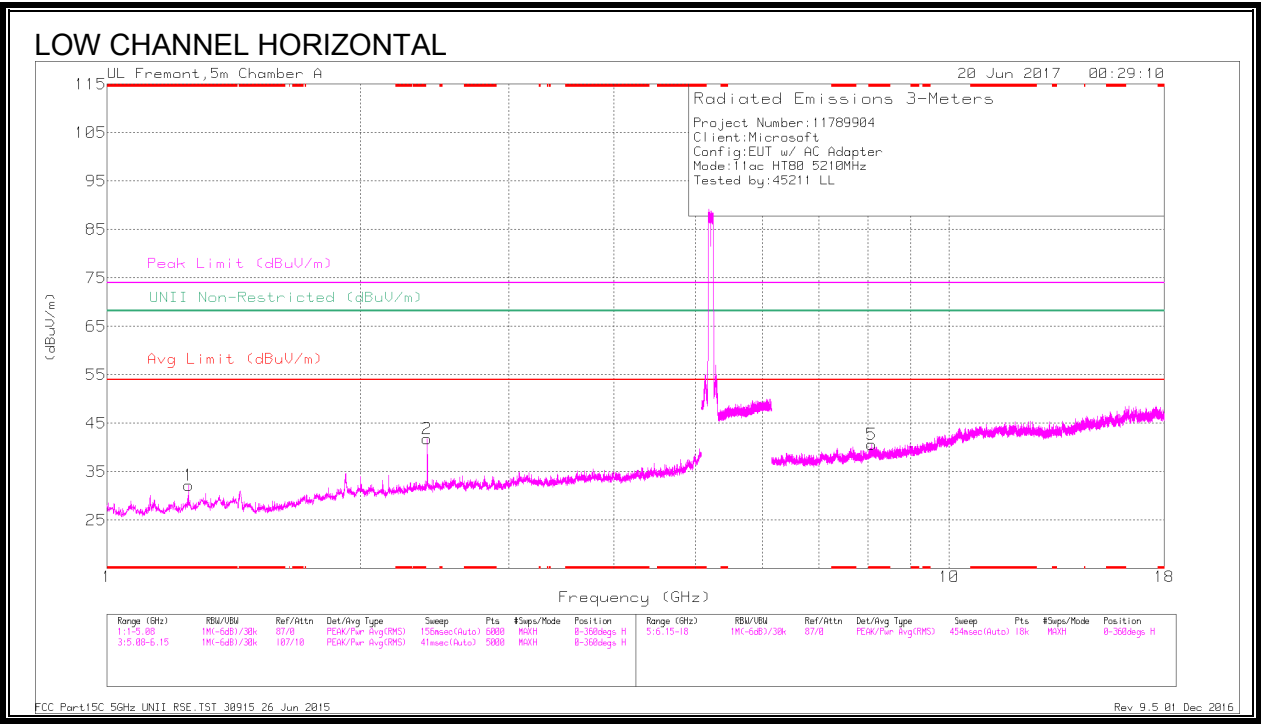
RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cb/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	39.26	Pk	34.1	-18.7	54.66	-	-	74	-19.34	243	249	V
2	* 5.146	45.86	Pk	34.1	-18.6	61.36	-	-	74	-12.64	243	249	V
3	* 5.15	28.33	RMS	34.1	-18.7	43.73	54	-10.27	-	-	243	249	V
4	* 5.141	32.96	RMS	34.1	-18.6	48.46	54	-5.54	-	-	243	249	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Filtr/Pad (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	* 1.25	44.25	PK-U	29.1	-34.3	39.05	-	-	74	-34.95	-	-	259	104	H
	* 1.25	35.55	ADR	29.1	-34.3	30.35	54	-23.65	-	-	-	-	259	104	H
5	* 8.093	33.57	PK-U	35.6	-23.1	46.07	-	-	74	-27.93	-	-	323	102	H
	* 8.09	21.84	ADR	35.6	-23.2	34.24	54	-19.76	-	-	-	-	323	102	H
3	1.921	49.17	PK-U	31.3	-33.3	47.17	-	-	-	-	68.2	-21.03	209	105	V
2	2.4	47.58	PK-U	32.1	-32.2	47.48	-	-	-	-	68.2	-20.72	351	241	H
4	2.4	45.78	PK-U	32.1	-32.2	45.68	-	-	-	-	68.2	-22.52	232	263	V
6	10.276	32.38	PK-U	37.2	-19.5	50.08	-	-	-	-	68.2	-18.12	276	102	V

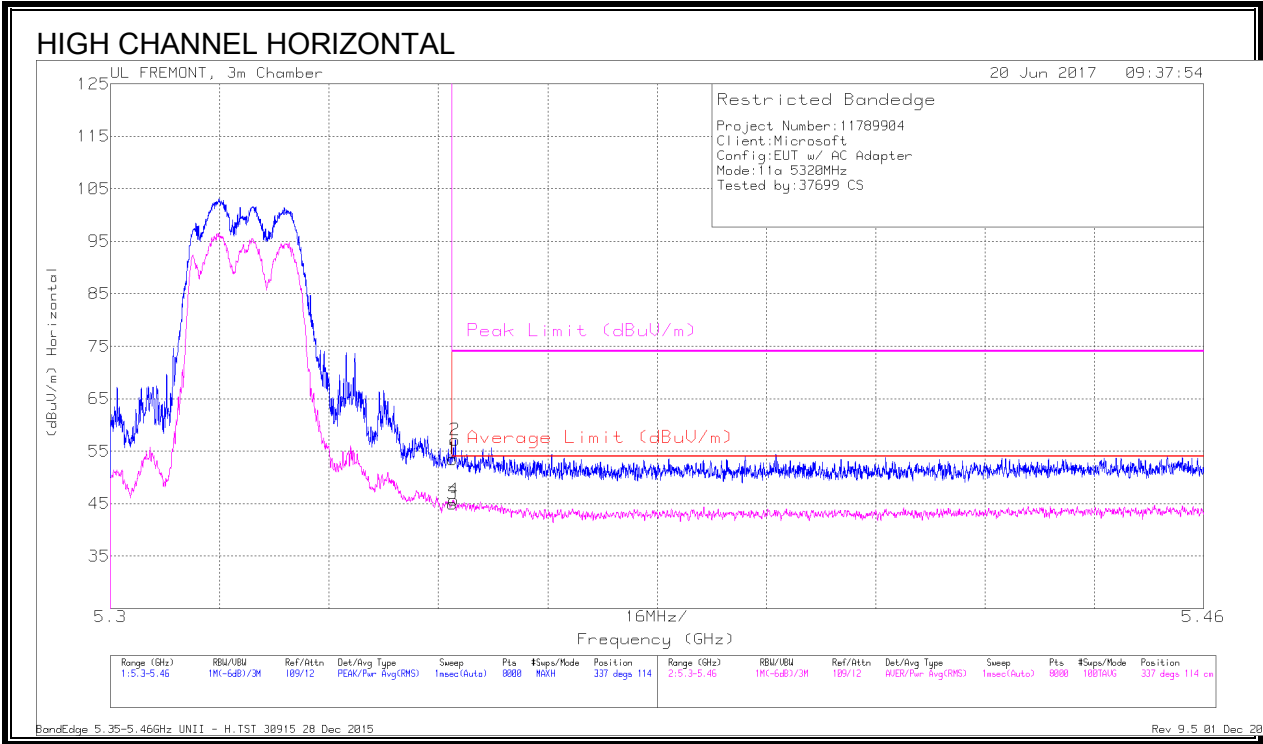
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

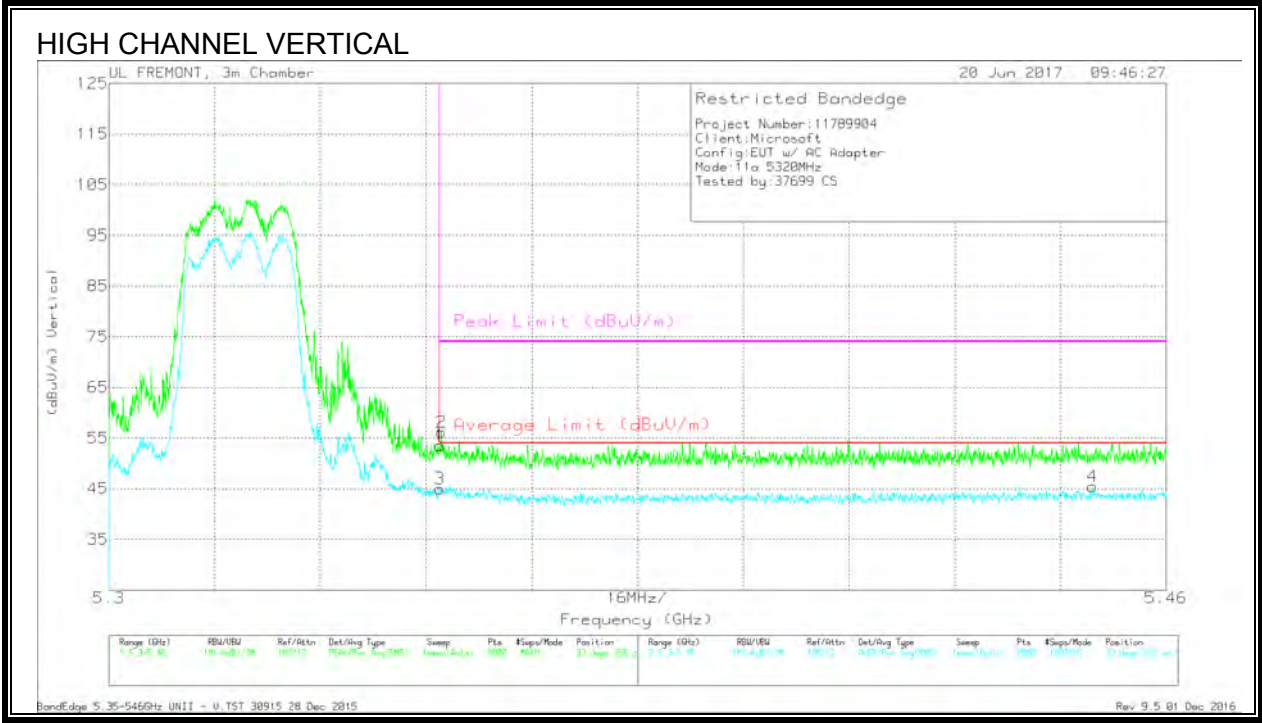
10.1.5. 11a 2TX MODE IN THE 5.3GHz BAND

AUTHORIZED BANDEDGE (HIGH CHANNEL)



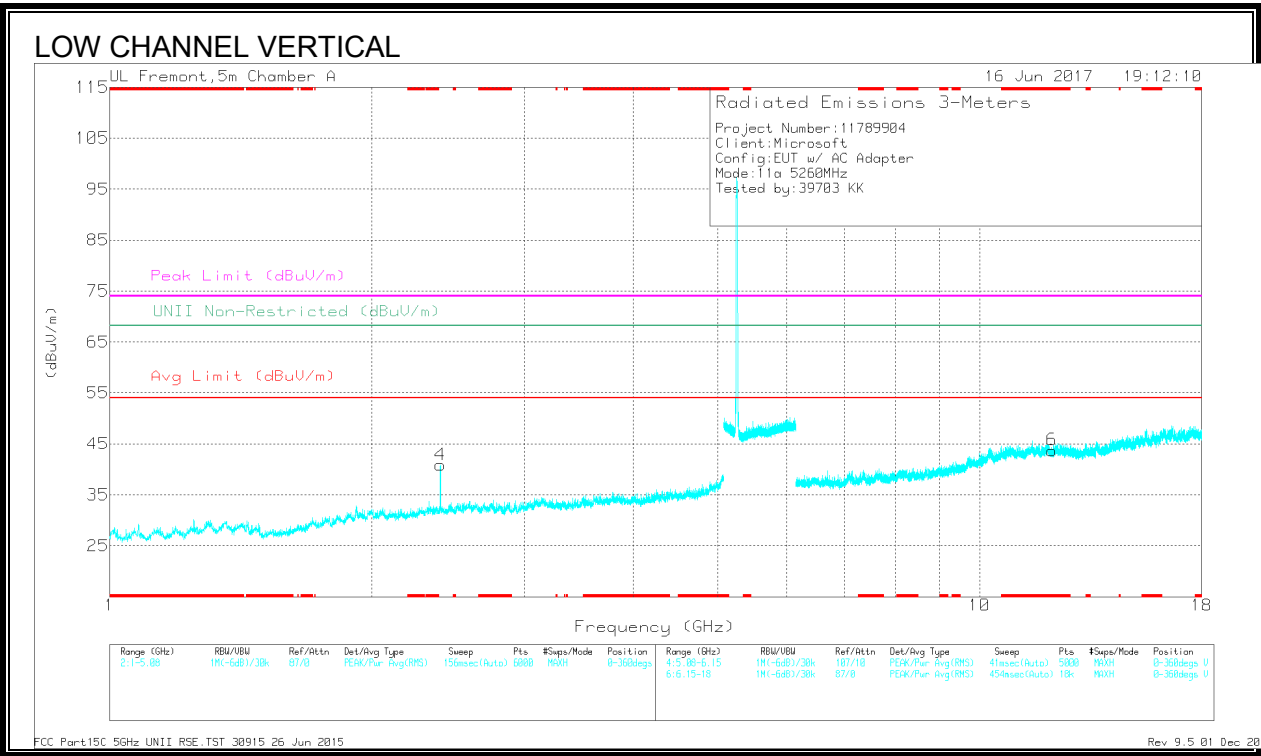
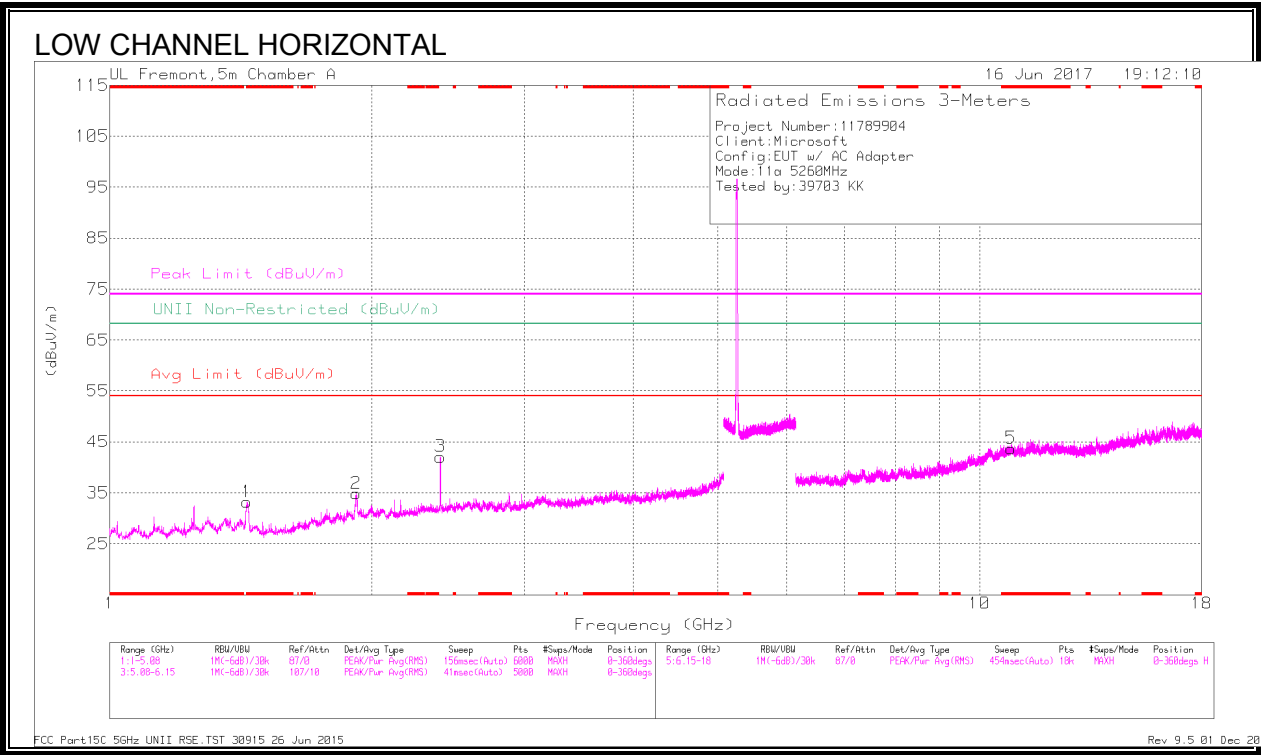
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.35	38.96	Pk	34.3	-19.8	53.46	-	-	74	-20.54	337	114	H
2	5.35	42.74	Pk	34.3	-19.9	57.14	-	-	74	-16.86	337	114	H
3	5.35	30.46	RMS	34.3	-19.8	44.96	54	-9.04	-	-	337	114	H
4	5.35	31.34	RMS	34.3	-19.9	45.74	54	-8.26	-	-	337	114	H

Pk - Peak detector
RMS - RMS detection



Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

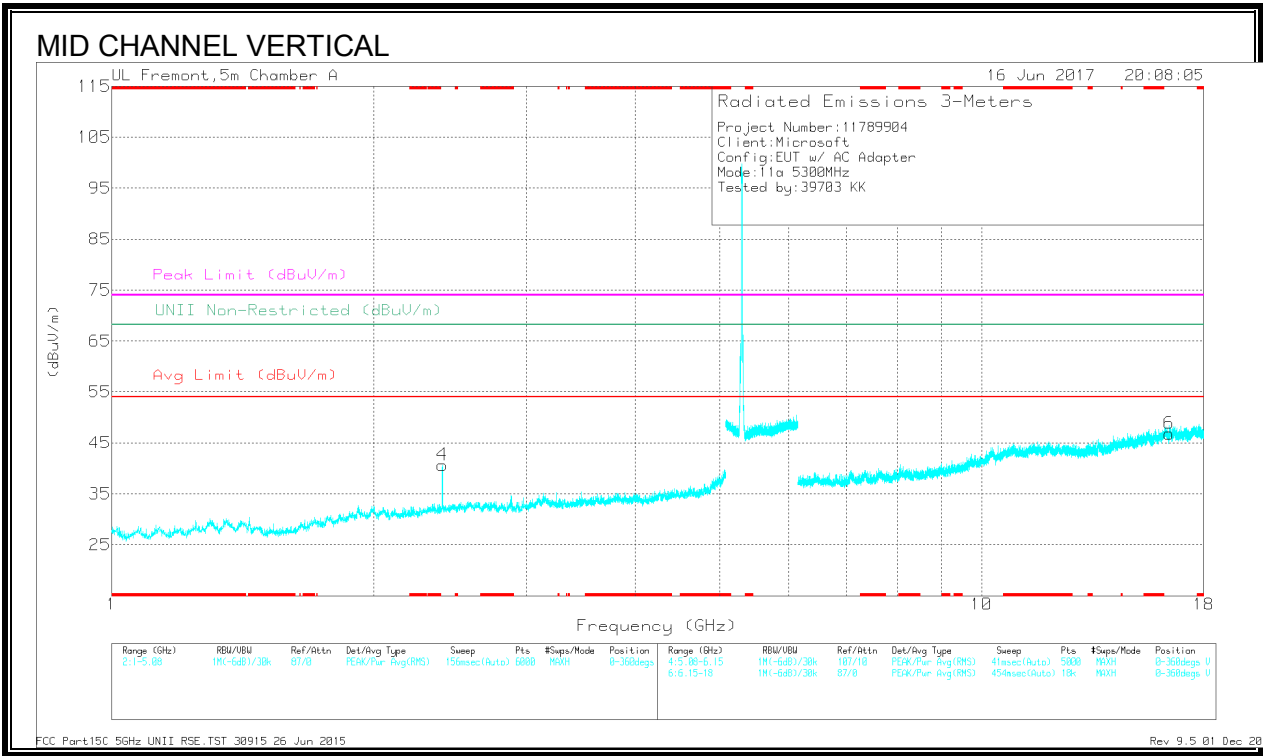
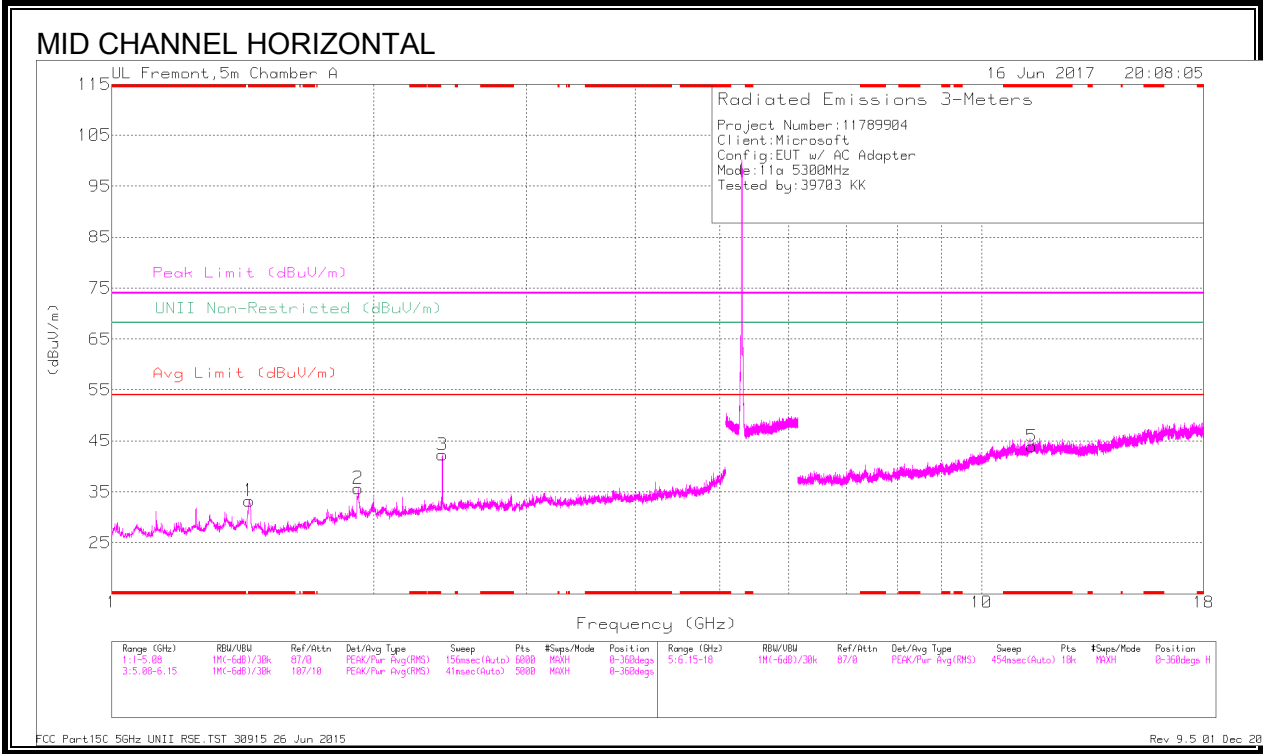


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Dege)	Height (cm)	Polarity
1	* 1.441	51.13	PK-U	28.8	-33.6	46.33	-	-	74	-27.67	-	-	195	104	H
	* 1.44	32.23	ADR	28.8	-33.6	27.43	54	-26.57	-	-	-	-	195	104	H
5	* 10.865	31.75	PK-U	37.9	-19.5	50.15	-	-	74	-23.85	-	-	172	101	H
	* 10.863	20.92	ADR	37.9	-19.6	39.22	54	-14.78	-	-	-	-	172	101	H
6	* 12.117	31.97	PK-U	38.7	-20.6	50.07	-	-	74	-23.93	-	-	172	101	V
	* 12.114	21.1	ADR	38.7	-20.5	39.3	54	-14.7	-	-	-	-	172	101	V
2	1.92	50.91	PK-U	31.3	-33.3	48.91	-	-	-	-	68.2	-19.29	170	202	H
	1.92	34.98	ADR	31.3	-33.3	32.98	-	-	-	-	-	-	170	202	H
3	2.4	47.45	PK-U	32.1	-32.3	47.25	-	-	-	-	68.2	-20.95	170	149	H
	2.4	42.18	ADR	32.1	-32.3	41.98	-	-	-	-	-	-	170	149	H
4	2.4	45.66	PK-U	32.1	-32.3	45.46	-	-	-	-	68.2	-22.74	172	101	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

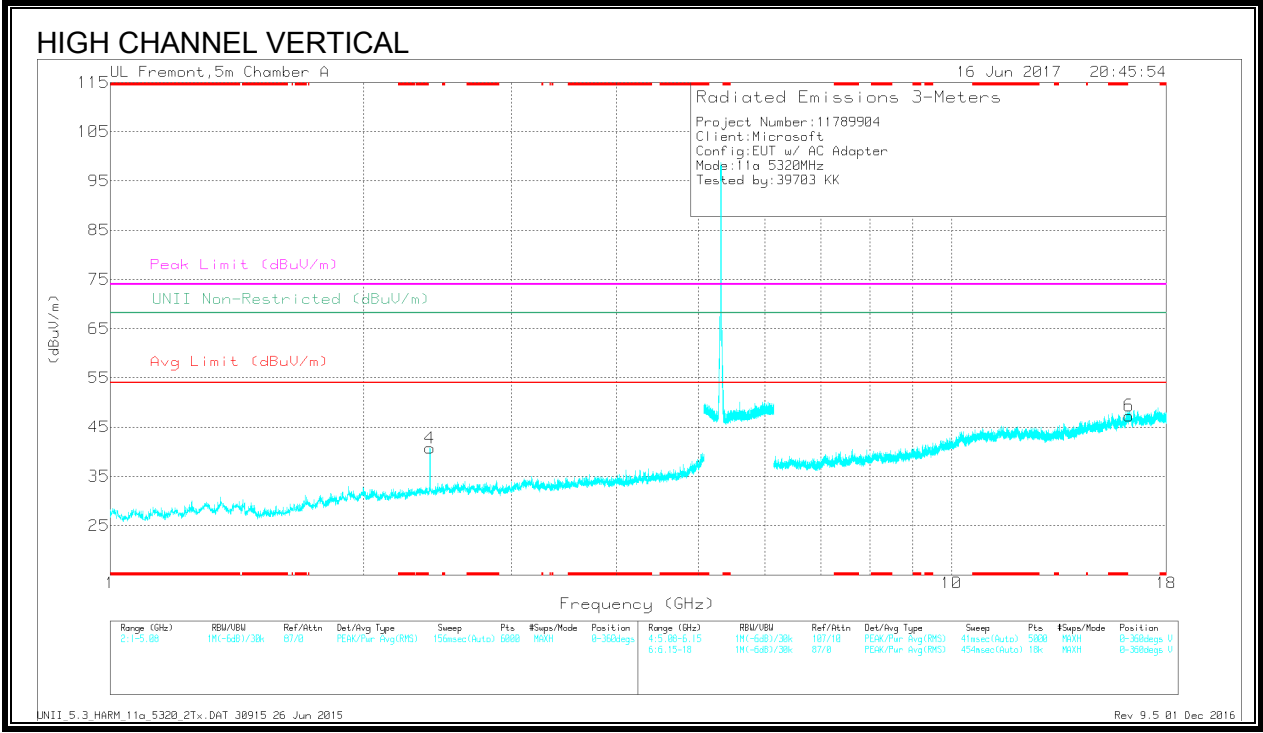
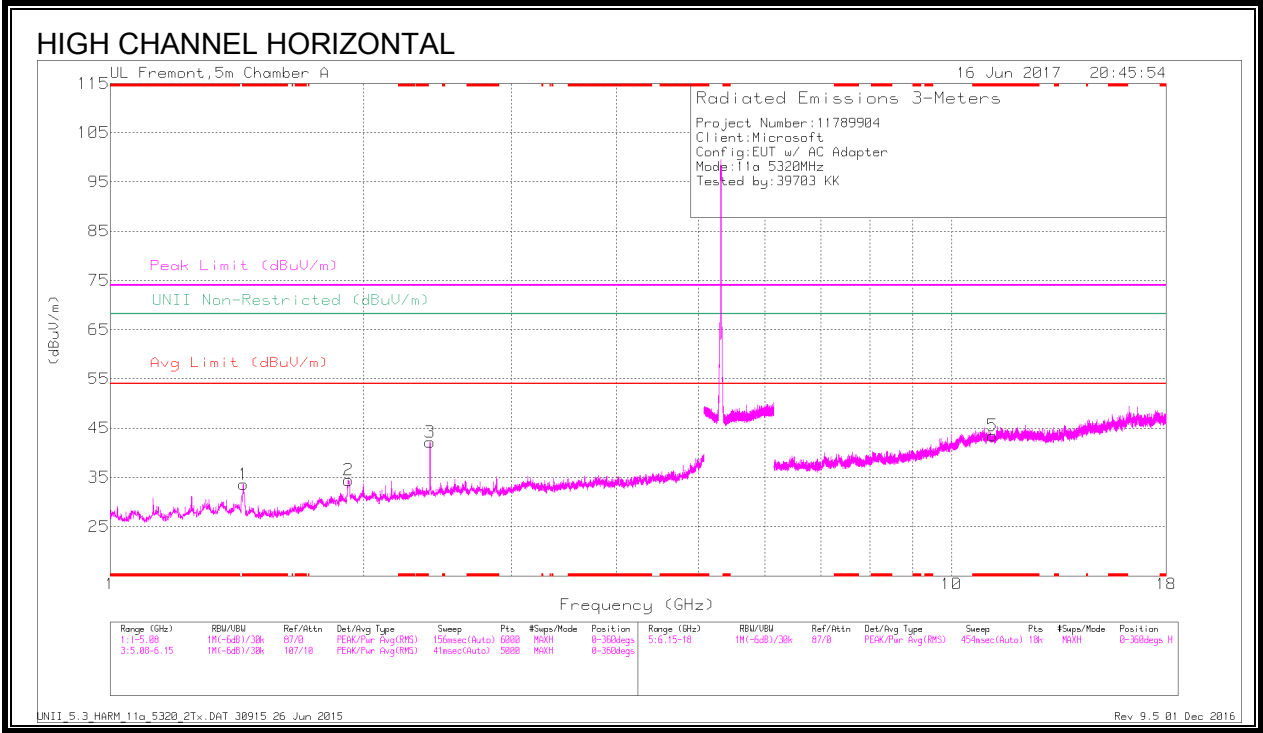


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Dege)	Height (cm)	Polarity
1	* 1.44	45.79	PK-U	28.8	-33.6	40.99	-	-	74	-33.01	-	-	0	101	H
	* 1.44	29.53	ADR	28.8	-33.6	24.73	54	-29.27	-	-	-	-	0	101	H
5	* 11.421	31.89	PK-U	38	-19.7	50.19	-	-	74	-23.81	-	-	169	101	H
	* 11.424	21.25	ADR	38	-19.7	39.55	54	-14.45	-	-	-	-	169	101	H
2	1.92	52.49	PK-U	31.3	-33.3	50.49	-	-	-	-	68.2	-17.71	164	149	H
3	2.4	48.41	PK-U	32.1	-32.3	48.21	-	-	-	-	68.2	-19.99	169	149	H
4	2.401	46.67	PK-U	32.1	-32.2	46.57	-	-	-	-	68.2	-21.63	169	101	V
6	16.423	32.1	PK-U	41.6	-21	52.7	-	-	-	-	68.2	-15.5	169	101	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Fitr/Pad (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	* 1.441	53.32	PK-U	28.8	-33.6	48.52	-	-	74	-25.48	-	-	217	198	H
	* 1.44	34.13	ADR	28.8	-33.6	29.33	54	-24.67	-	-	-	-	217	198	H
5	* 11.186	31.91	PK-U	37.8	-20	49.71	-	-	74	-24.29	-	-	170	102	H
	* 11.186	21.05	ADR	37.8	-20	38.85	54	-15.15	-	-	-	-	170	102	H
2	1.921	52.31	PK-U	31.3	-33.3	50.31	-	-	-	-	68.2	-17.89	175	216	H
4	2.399	47.15	PK-U	32.1	-32.3	46.95	-	-	-	-	68.2	-21.25	170	102	V
3	2.4	48.37	PK-U	32.1	-32.2	48.27	-	-	-	-	68.2	-19.93	170	149	H
6	16.26	32.36	PK-U	41.3	-20.1	53.56	-	-	-	-	68.2	-14.64	170	102	V

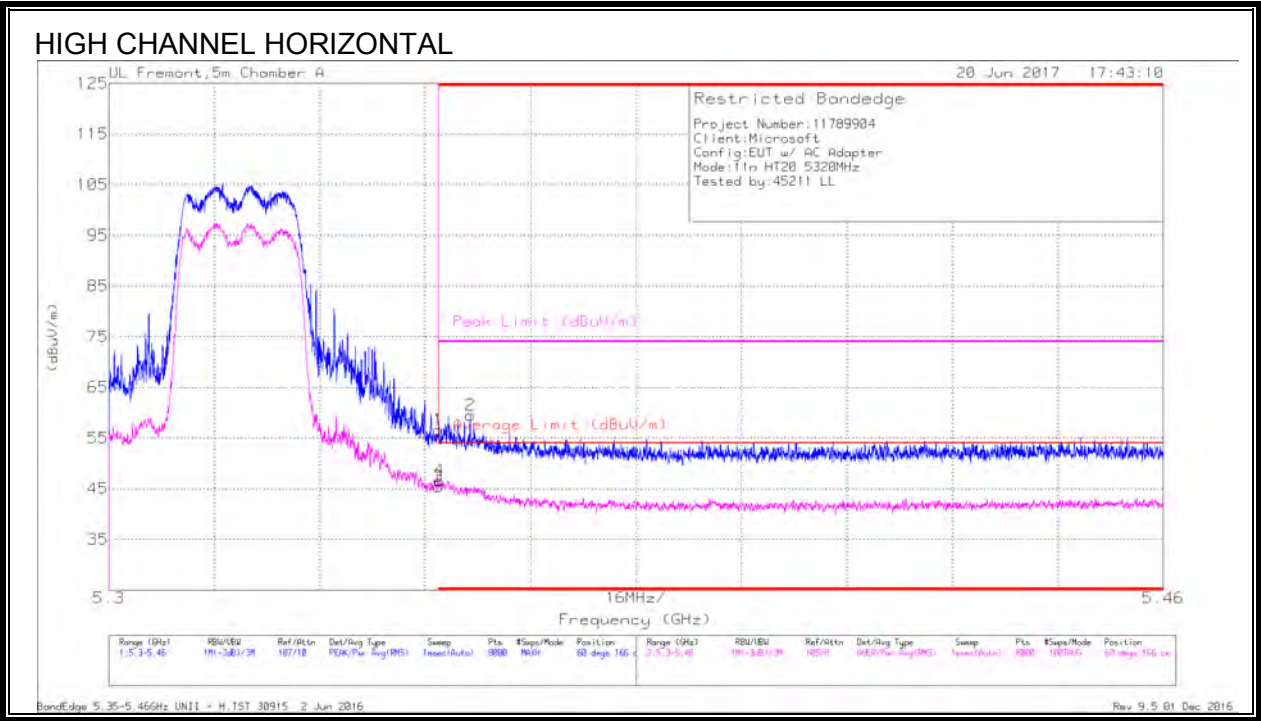
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

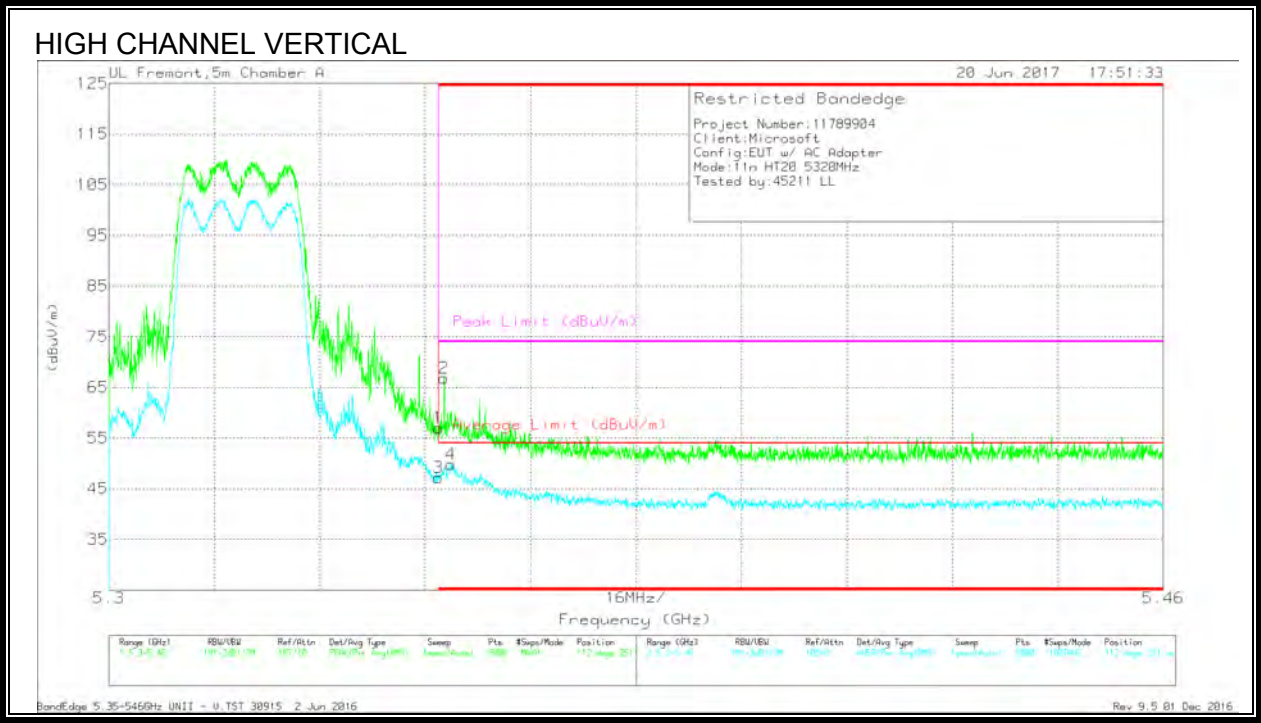
10.1.6. 11n HT20 2TX MODE IN THE 5.3GHz BAND

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	41.28	Pk	34.3	-18.9	56.68	-	-	74	-17.32	60	166	H
2	* 5.355	44.01	Pk	34.3	-18.8	59.51	-	-	74	-14.49	60	166	H
3	* 5.35	30	RMS	34.3	-18.9	45.4	54	-8.6	-	-	60	166	H
4	* 5.35	31.22	RMS	34.3	-18.9	46.62	54	-7.38	-	-	60	166	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection



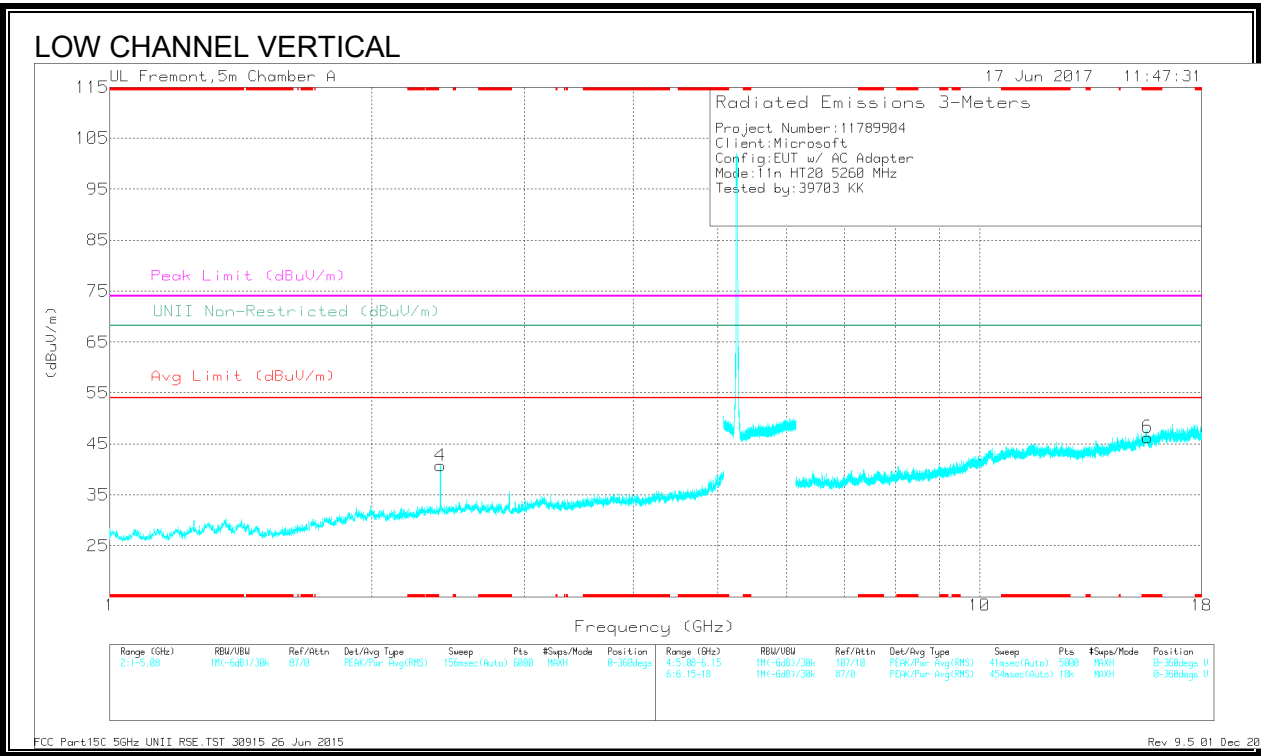
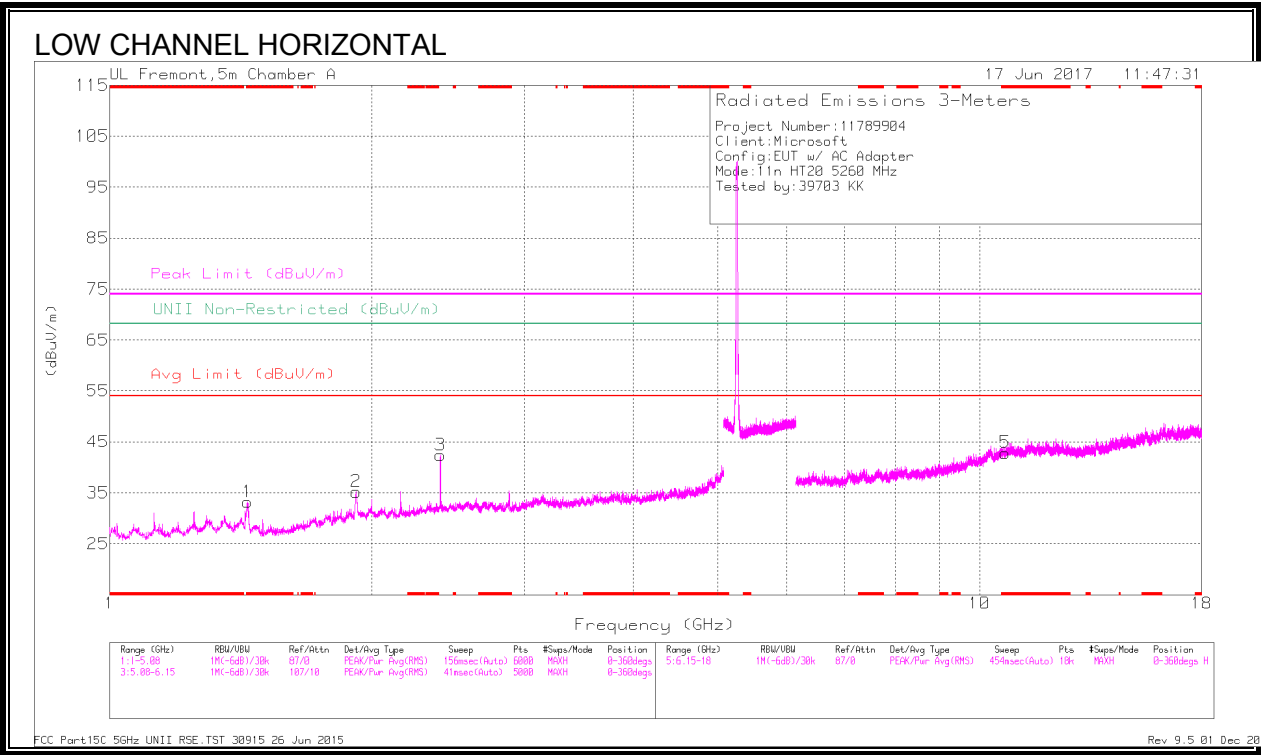
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	41.65	Pk	34.3	-18.9	57.05	-	-	74	-16.95	112	251	V
2	* 5.351	51.38	Pk	34.3	-18.9	66.78	-	-	74	-7.22	112	251	V
3	* 5.35	31.83	RMS	34.3	-18.9	47.23	54	-6.77	-	-	112	251	V
4	* 5.352	34.37	RMS	34.3	-18.9	49.77	54	-4.23	-	-	112	251	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

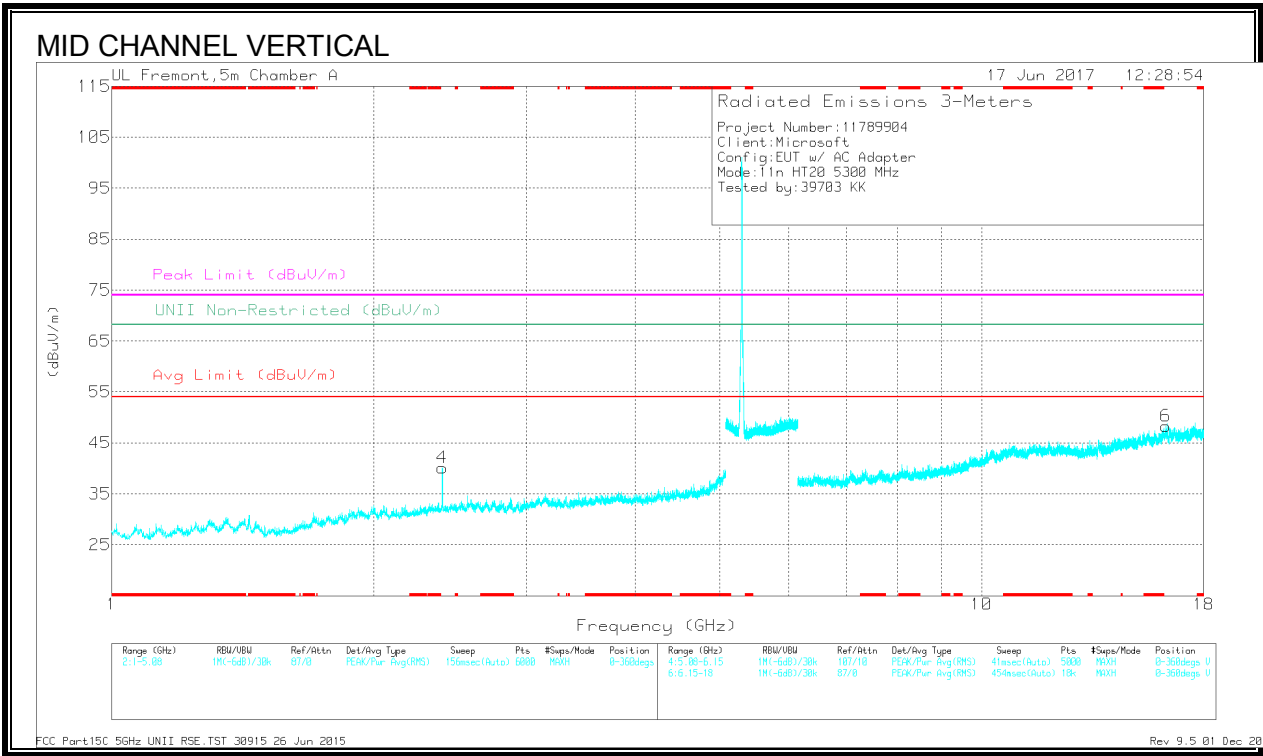
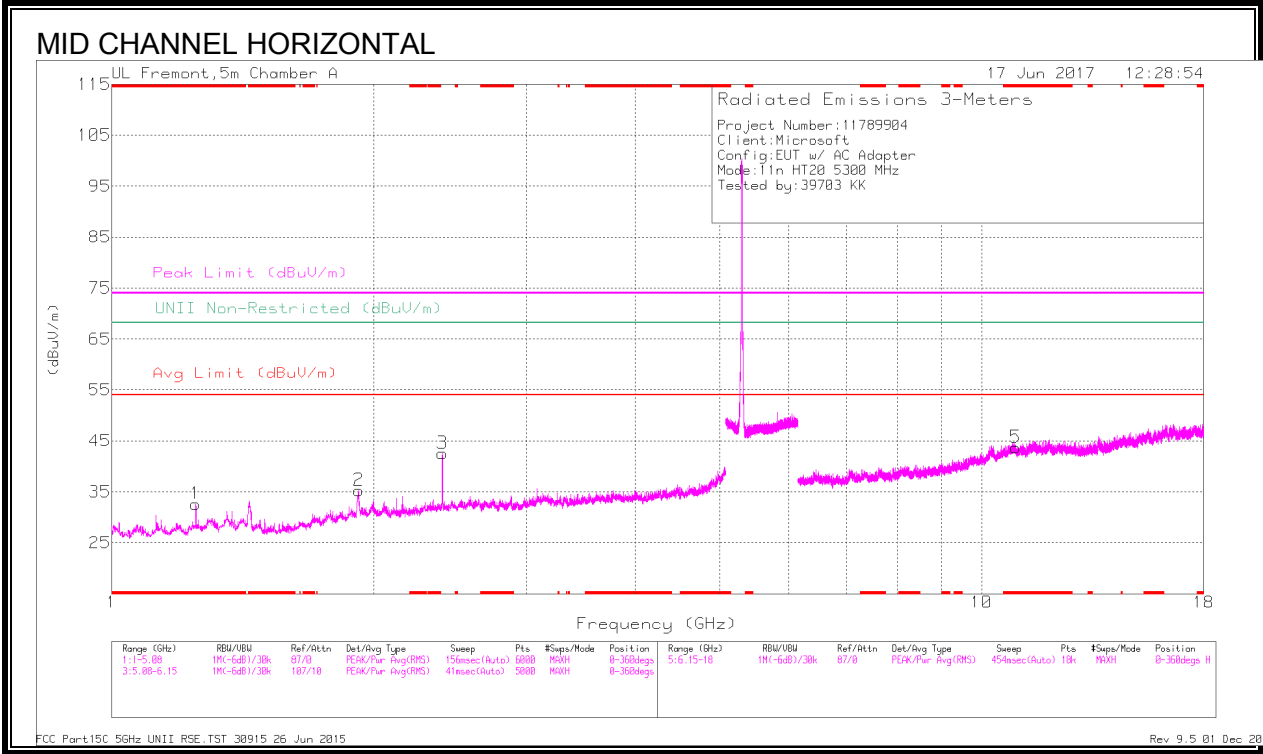


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.441	52.04	PK-U	28.8	-33.6	47.24	-	-	74	-26.76	-	-	207	247	H
	* 1.44	32.66	ADR	28.8	-33.6	27.86	54	-26.14	-	-	-	-	207	247	H
5	* 10.703	32.28	PK-U	37.9	-20.8	49.38	-	-	74	-24.62	-	-	170	101	H
	* 10.704	21.45	ADR	37.9	-20.8	38.55	54	-15.45	-	-	-	-	170	101	H
6	* 15.601	32.97	PK-U	40.4	-20.2	53.17	-	-	74	-20.83	-	-	170	200	V
	* 15.602	21.33	ADR	40.4	-20.2	41.53	54	-12.47	-	-	-	-	170	200	V
2	1.919	52.67	PK-U	31.3	-33.3	50.67	-	-	-	-	68.2	-17.53	172	178	H
3	2.4	49.19	PK-U	32.1	-32.3	48.99	-	-	-	-	68.2	-19.21	169	116	H
4	2.4	45.21	PK-U	32.1	-32.3	45.01	-	-	-	-	68.2	-23.19	170	101	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

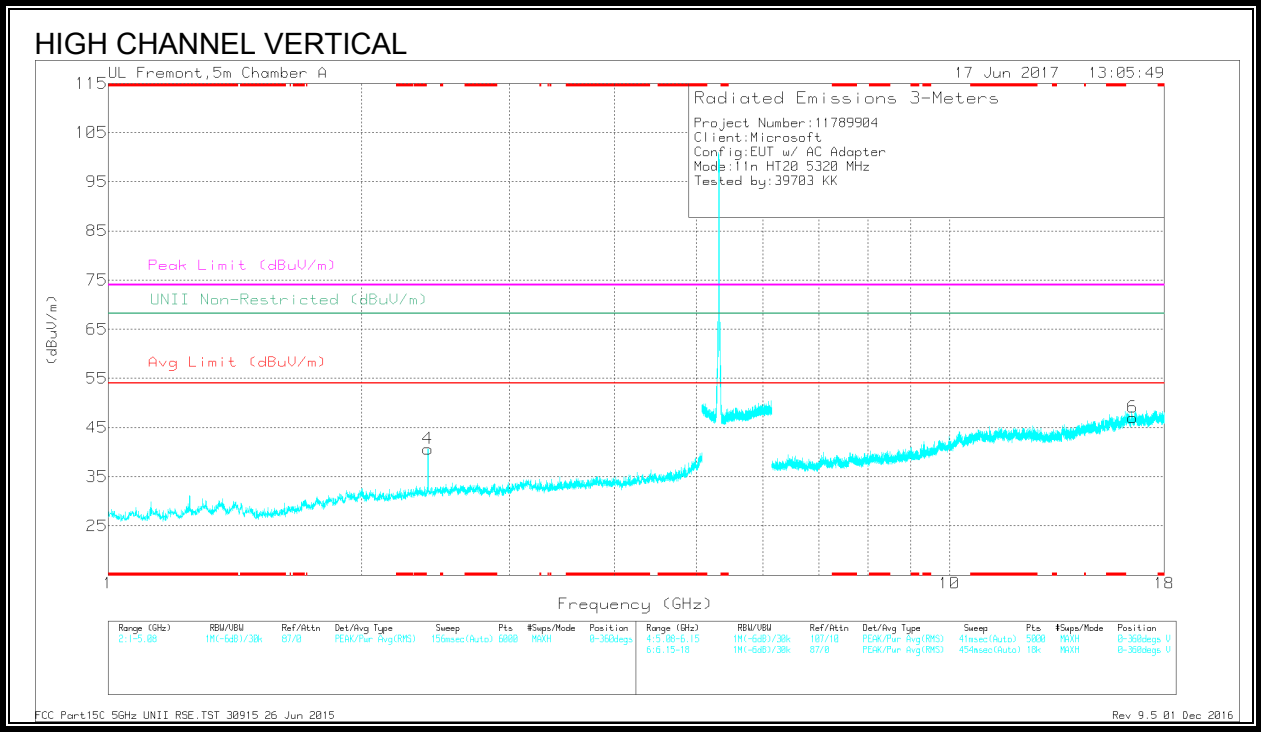
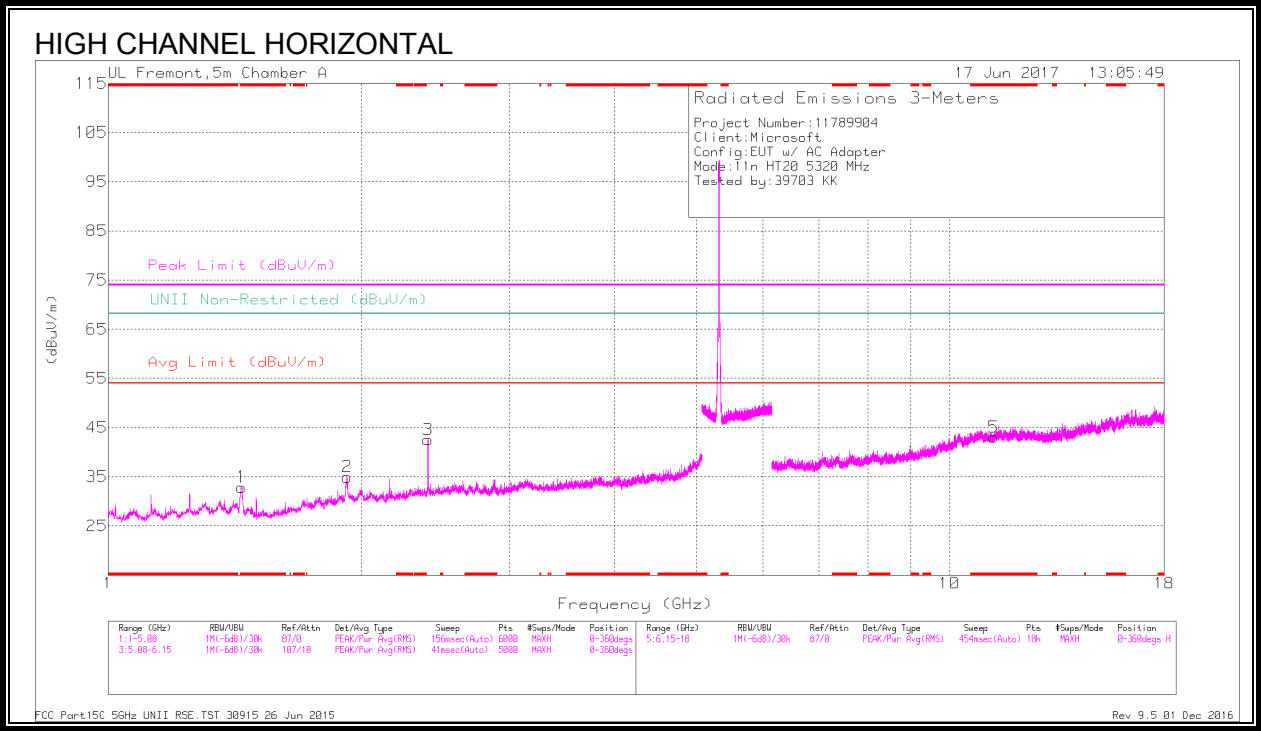


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.25	43.41	PK-U	29.1	-34.3	38.21	-	-	74	-35.79	-	-	158	196	H
	* 1.25	35.36	ADR	29.1	-34.3	30.16	54	-23.84	-	-	-	-	158	196	H
5	* 10.941	32.06	PK-U	37.8	-19.7	50.16	-	-	74	-23.84	-	-	169	103	H
	* 10.941	21.22	ADR	37.8	-19.7	39.32	54	-14.68	-	-	-	-	169	103	H
2	1.922	47.54	PK-U	31.3	-33.3	45.54	-	-	-	-	68.2	-22.66	158	198	H
3	2.4	48.74	PK-U	32.1	-32.3	48.54	-	-	-	-	68.2	-19.66	169	118	H
4	2.4	45.58	PK-U	32.1	-32.3	45.38	-	-	-	-	68.2	-22.82	169	103	V
6	16.284	32.16	PK-U	41.3	-19.9	53.56	-	-	-	-	68.2	-14.64	169	103	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-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 T711 (dB/m)	Amp/Cbl/F ltr/Pad (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	* 1.441	45.29	PK-U	28.8	-33.6	40.49	-	-	74	-33.51	-	-	0	199	H
	* 1.44	29.59	ADR	28.8	-33.6	24.79	54	-29.21	-	-	-	-	0	199	H
2	1.921	51.33	PK-U	31.3	-33.3	49.33	-	-	-	-	68.2	-18.87	165	131	H
	1.921	31.24	ADR	31.3	-33.3	29.24	-	-	-	-	-	-	165	131	H
3	2.4	47.89	PK-U	32.1	-32.2	47.79	-	-	-	-	68.2	-20.41	169	180	H
	2.4	41.95	ADR	32.1	-32.3	41.75	-	-	-	-	-	-	169	180	H
4	2.4	46.13	PK-U	32.1	-32.3	45.93	-	-	-	-	68.2	-22.27	171	101	V
	2.4	40.07	ADR	32.1	-32.3	39.87	-	-	-	-	-	-	171	101	V
5	* 11.287	32.23	PK-U	37.9	-20	50.13	-	-	74	-23.87	-	-	171	101	H
	* 11.286	20.82	ADR	37.9	-20	38.72	54	-15.28	-	-	-	-	171	101	H
6	16.513	32.51	PK-U	41.7	-20.8	53.41	-	-	-	-	68.2	-14.79	262	101	V
	16.512	21.12	ADR	41.7	-20.8	42.02	-	-	-	-	-	-	262	101	V

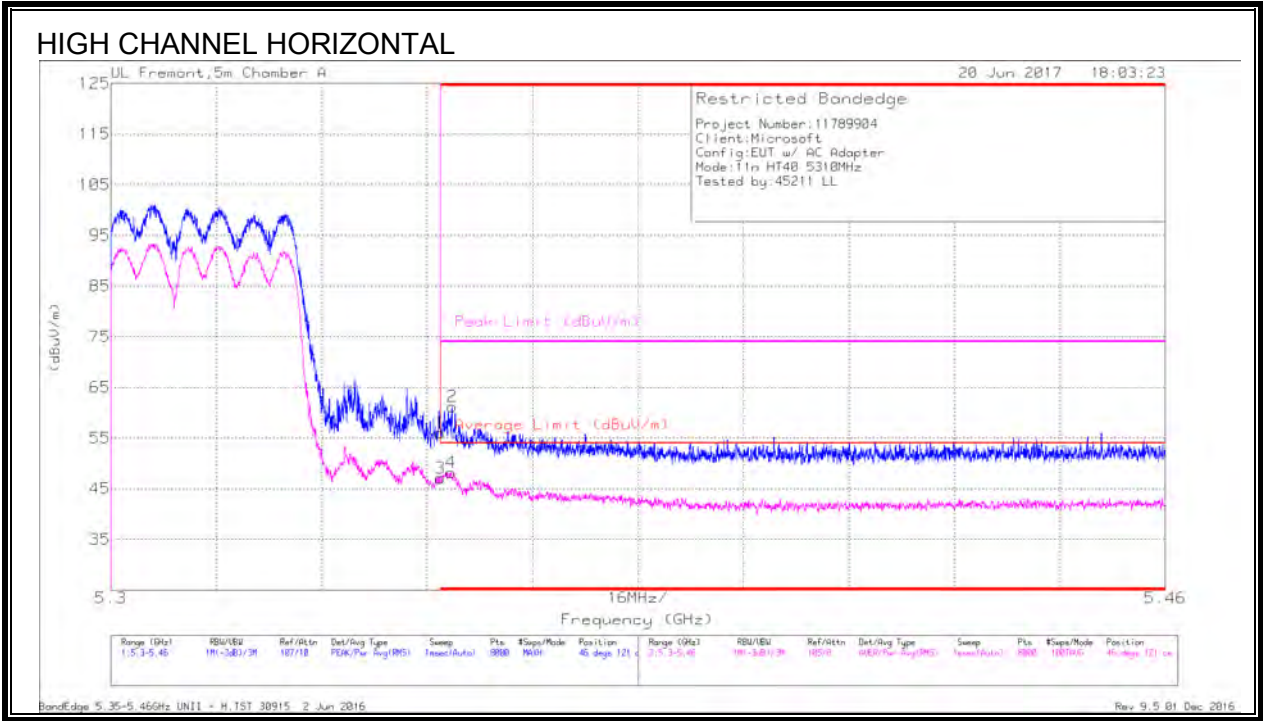
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.7. 11n HT40 2TX MODE IN THE 5.3GHz BAND

AUTHORIZED BANDEDGE (HIGH CHANNEL)

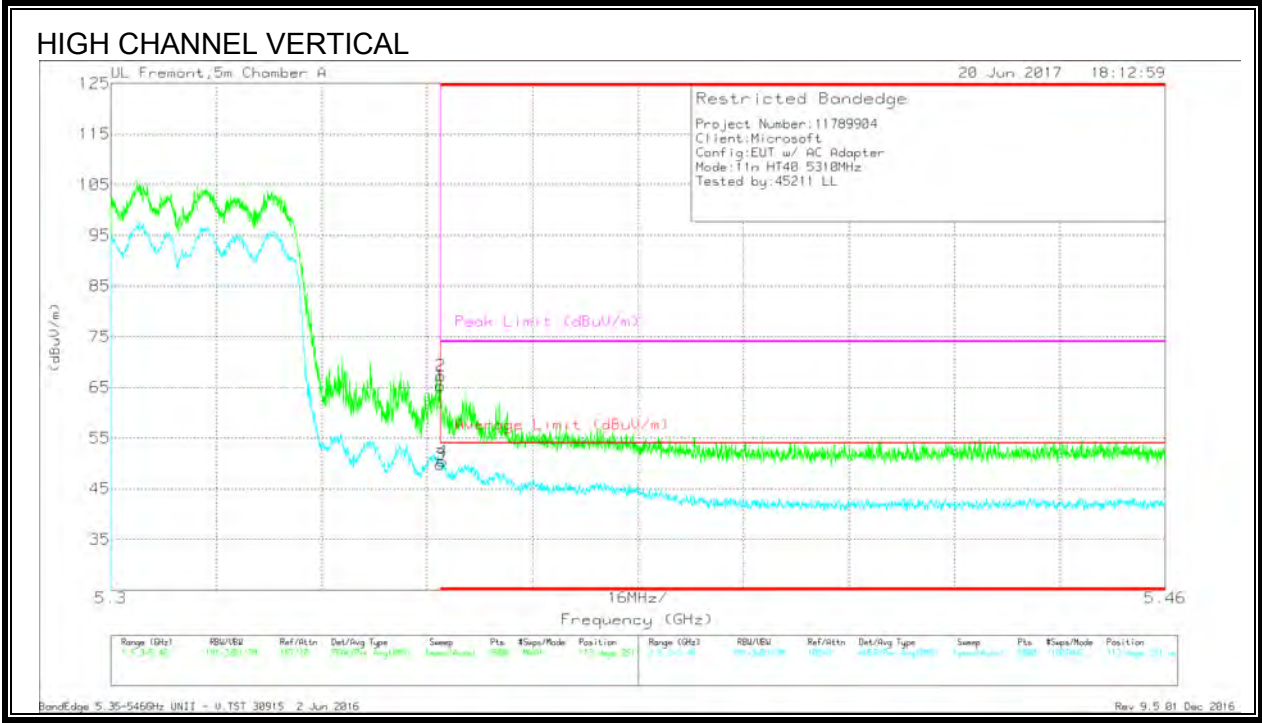


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	40.55	Pk	34.3	-18.9	55.95	-	-	74	-18.05	46	121	H
2	* 5.352	45.87	Pk	34.3	-18.9	61.27	-	-	74	-12.73	46	121	H
3	* 5.35	31.66	RMS	34.3	-18.9	47.06	54	-6.94	-	-	46	121	H
4	* 5.352	32.82	RMS	34.3	-18.9	48.22	54	-5.78	-	-	46	121	H

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

Pk - Peak detector

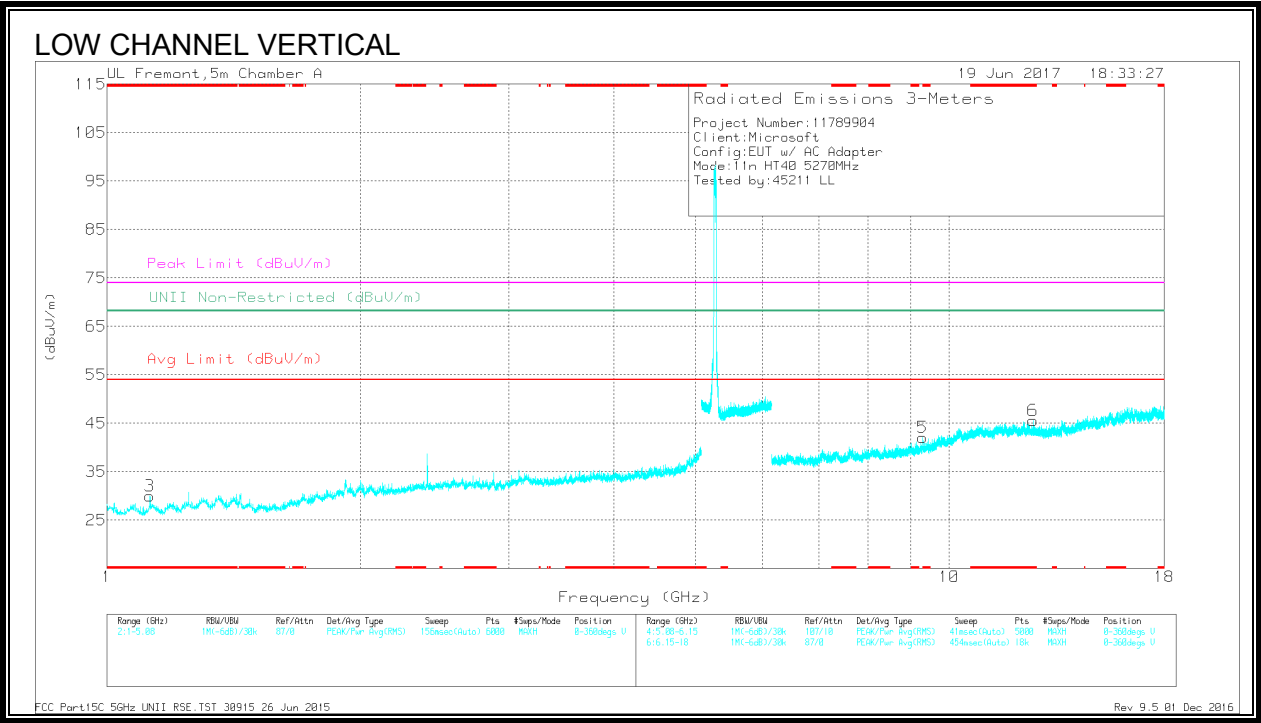
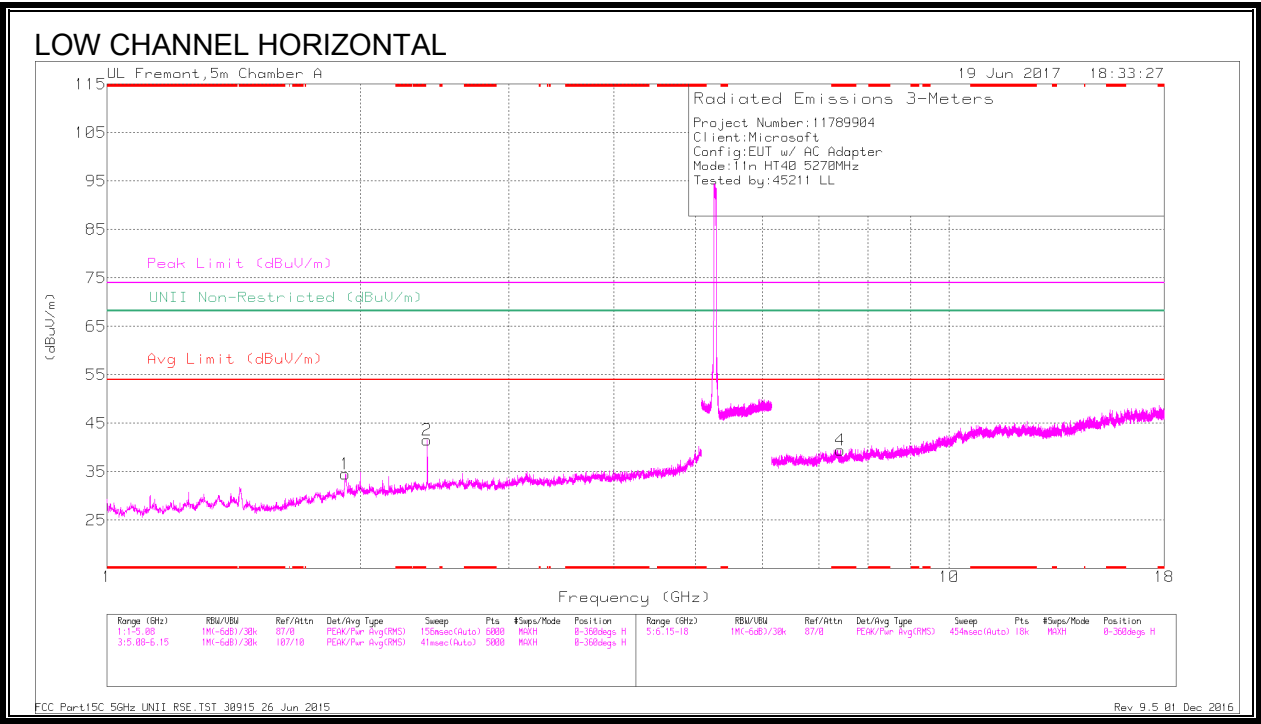
RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	49.9	Pk	34.3	-18.9	65.3	-	-	74	-8.7	113	251	V
2	* 5.35	51.87	Pk	34.3	-18.9	67.27	-	-	74	-6.73	113	251	V
3	* 5.35	34.4	RMS	34.3	-18.9	49.8	54	-4.2	-	-	113	251	V
4	* 5.35	35.01	RMS	34.3	-18.9	50.41	54	-3.59	-	-	113	251	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

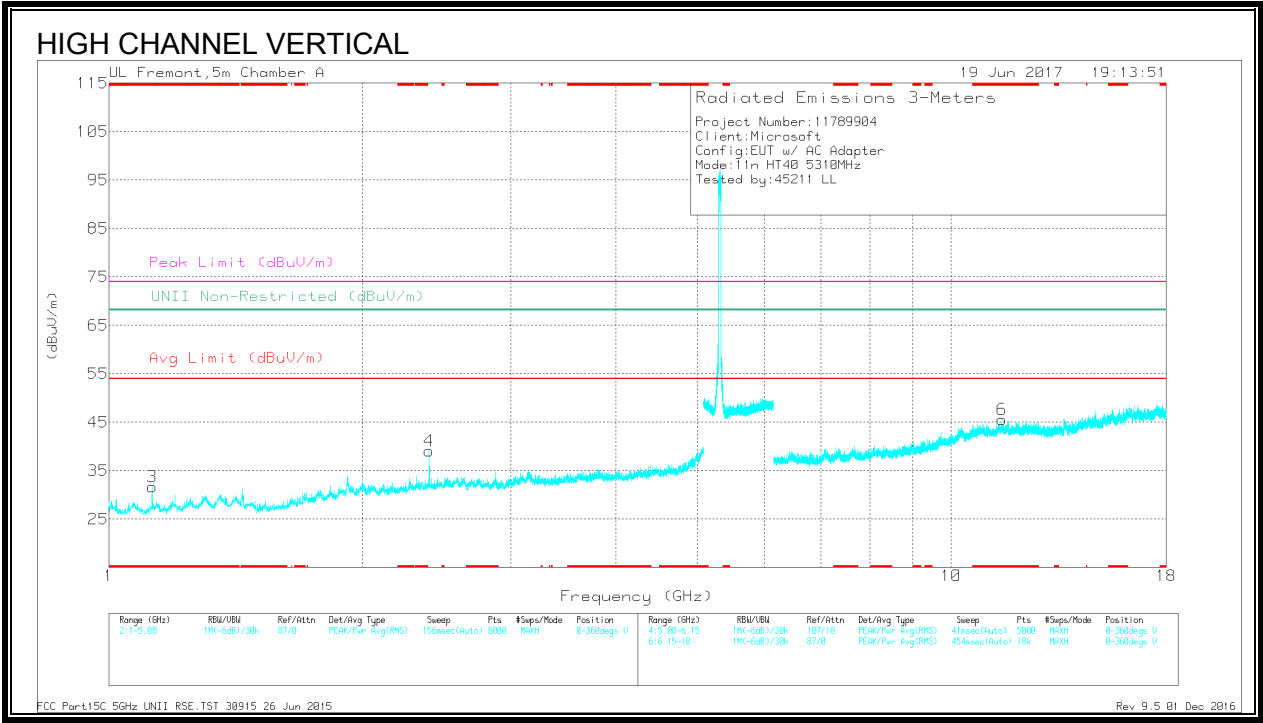
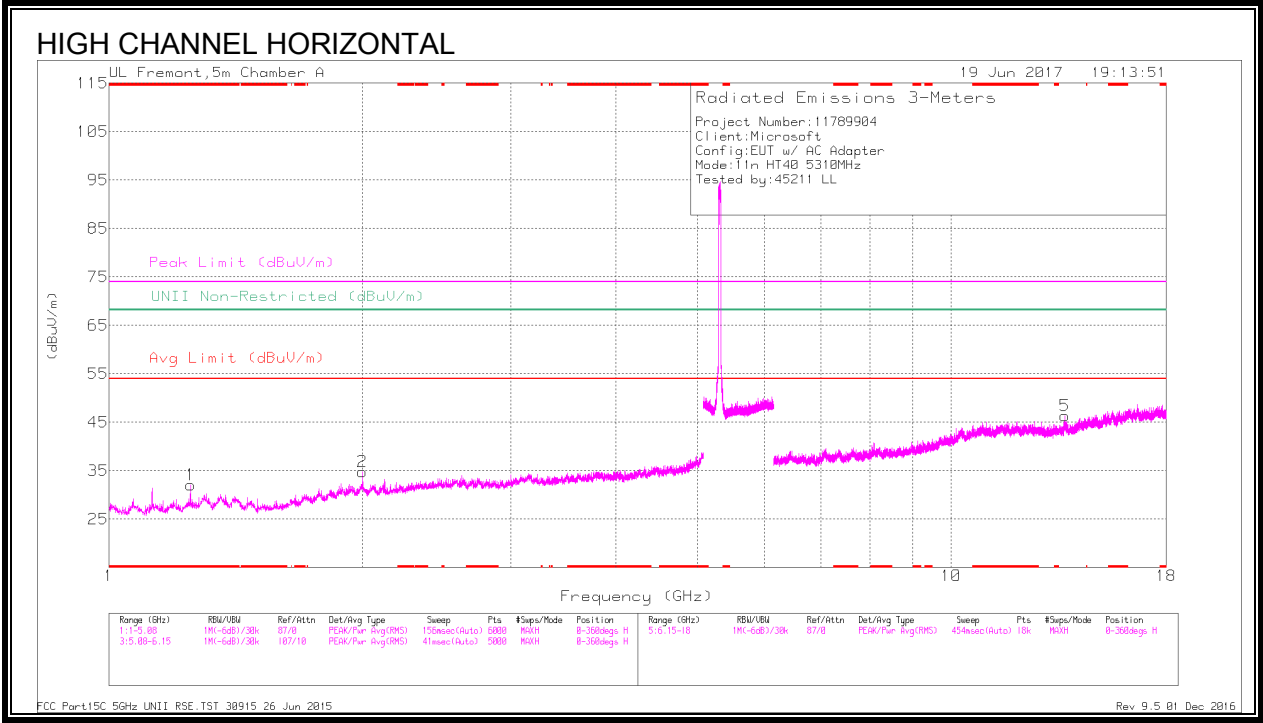


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 1.125	43.02	PK-U	28	-33.8	37.22	-	-	74	-36.78	-	-	185	200	V
	* 1.125	33.96	ADR	28	-33.8	28.16	54	-25.84	-	-	-	-	185	200	V
4	* 7.426	33.58	PK-U	35.5	-24.3	44.78	-	-	74	-29.22	-	-	235	200	H
	* 7.426	21.7	ADR	35.5	-24.3	32.9	54	-21.1	-	-	-	-	235	200	H
5	* 9.305	33.45	PK-U	36.2	-22.1	47.55	-	-	74	-26.45	-	-	278	102	V
	* 9.306	21.47	ADR	36.2	-22.2	35.47	54	-18.53	-	-	-	-	278	102	V
6	* 12.575	32.74	PK-U	39	-20.6	51.14	-	-	74	-22.86	-	-	322	102	V
	* 12.574	20.35	ADR	39	-20.5	38.85	54	-15.15	-	-	-	-	322	102	V
1	1.919	52.45	PK-U	31.3	-33.3	50.45	-	-	-	-	68.2	-17.75	211	116	H
2	2.4	47.49	PK-U	32.1	-32.2	47.39	-	-	-	-	68.2	-20.81	351	241	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Fitr/Pad (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	* 1.25	42.84	PK-U	29.1	-34.3	37.64	-	-	74	-36.36	-	-	261	137	H
	* 1.25	33.19	ADR	29.1	-34.3	27.99	54	-26.01	-	-	-	-	261	137	H
3	* 1.125	43.19	PK-U	28	-33.8	37.39	-	-	74	-36.61	-	-	188	214	V
	* 1.125	34.92	ADR	28	-33.8	29.12	54	-24.88	-	-	-	-	188	214	V
6	* 11.482	32.12	PK-U	38	-19.6	50.52	-	-	74	-23.48	-	-	68	102	V
	* 11.482	21.28	ADR	38.1	-19.6	39.78	54	-14.22	-	-	-	-	68	102	V
2	2	42.43	PK-U	31.4	-32.5	41.33	-	-	-	-	68.2	-26.87	342	191	H
4	2.402	39.63	PK-U	32.1	-32.2	39.53	-	-	-	-	68.2	-28.67	11	133	V
5	13.846	33.05	PK-U	38.7	-21	50.75	-	-	-	-	68.2	-17.45	127	199	H

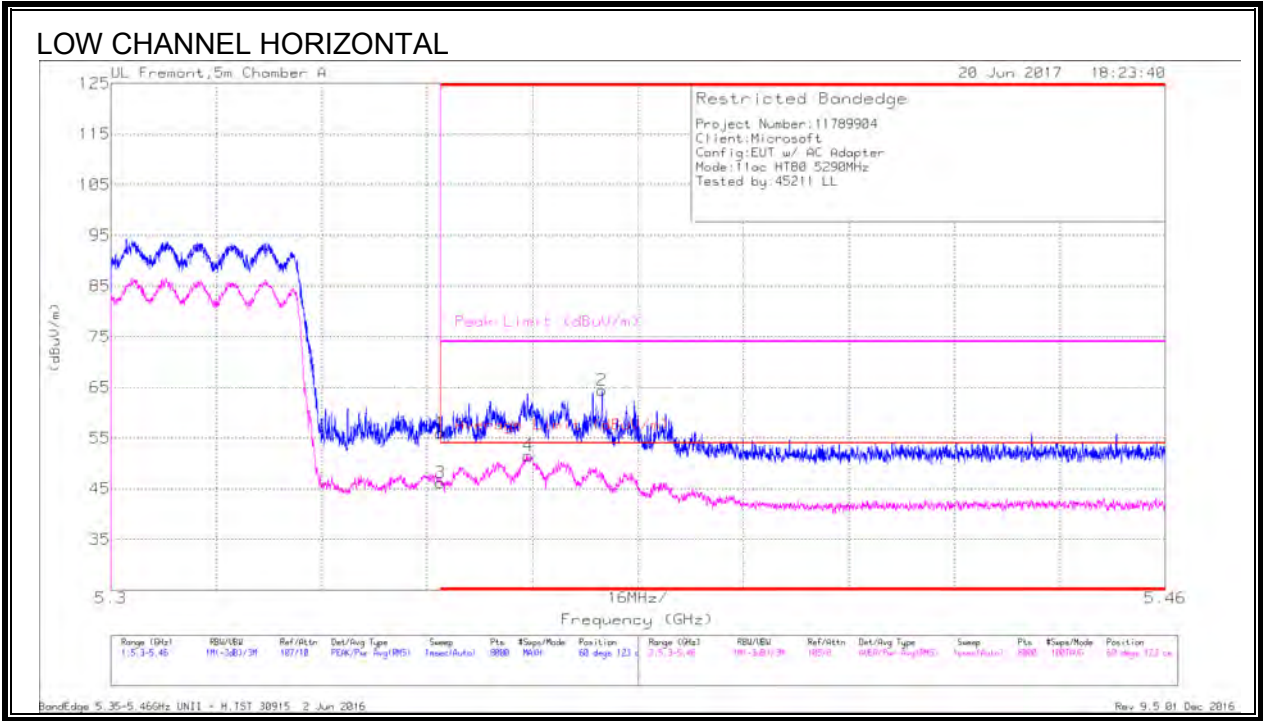
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.8. 11ac VHT80 2TX MODE IN THE 5.3GHz BAND

AUTHORIZED BANDEDGE (HIGH CHANNEL)

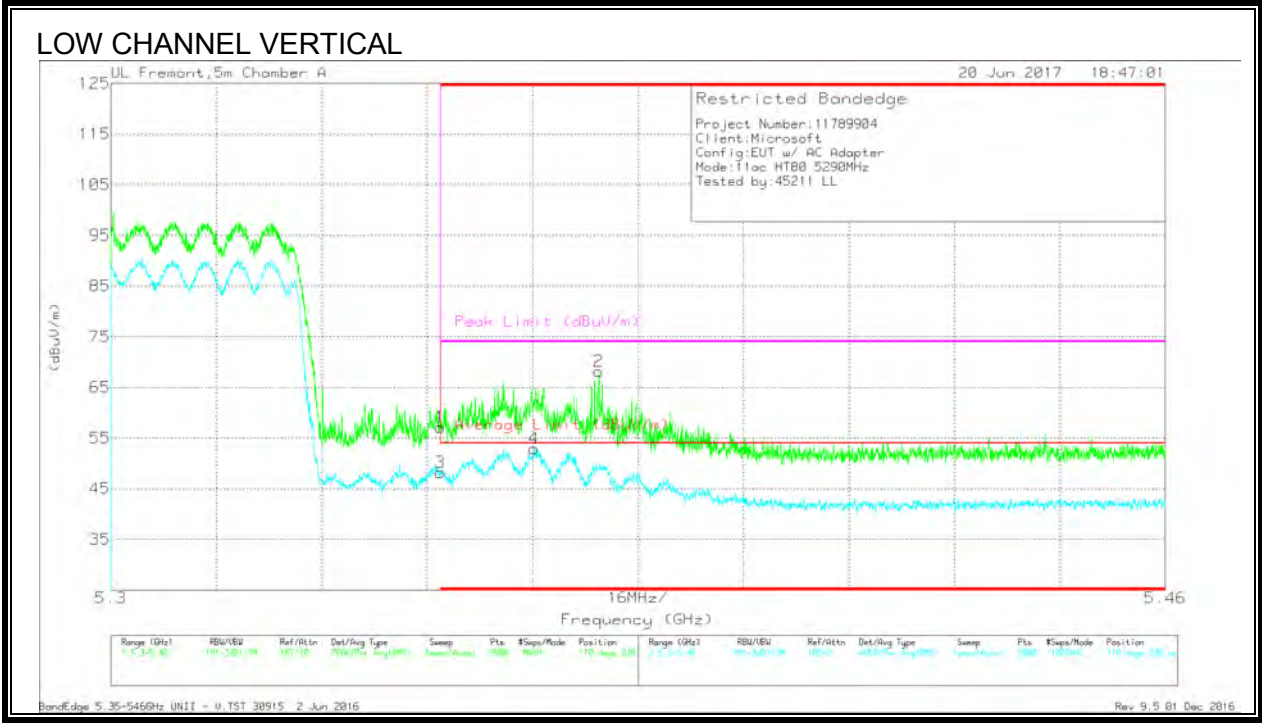


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	40.65	Pk	34.3	-18.9	56.05	-	-	74	-17.95	60	123	H
2	* 5.375	48.8	Pk	34.3	-18.6	64.5	-	-	74	-9.5	60	123	H
3	* 5.35	30.83	RMS	34.3	-18.9	46.23	54	-7.77	-	-	60	123	H
4	* 5.363	35.99	RMS	34.3	-18.7	51.59	54	-2.41	-	-	60	123	H

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

Pk - Peak detector

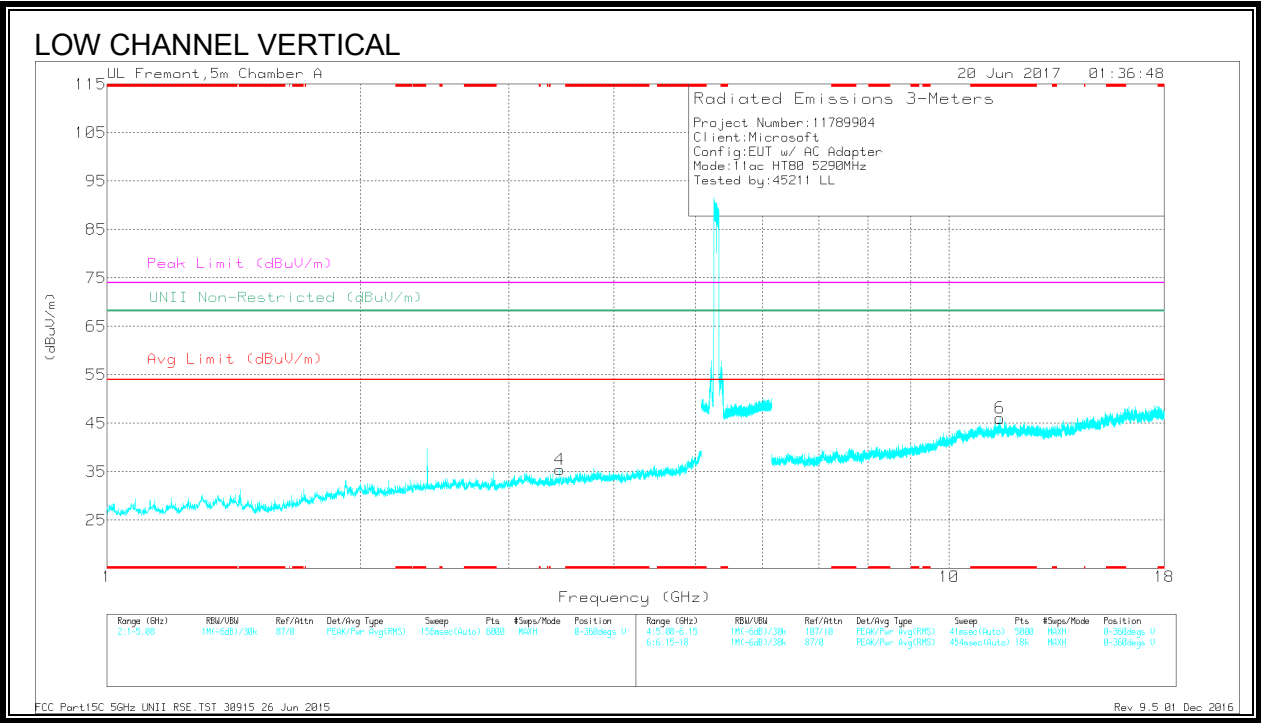
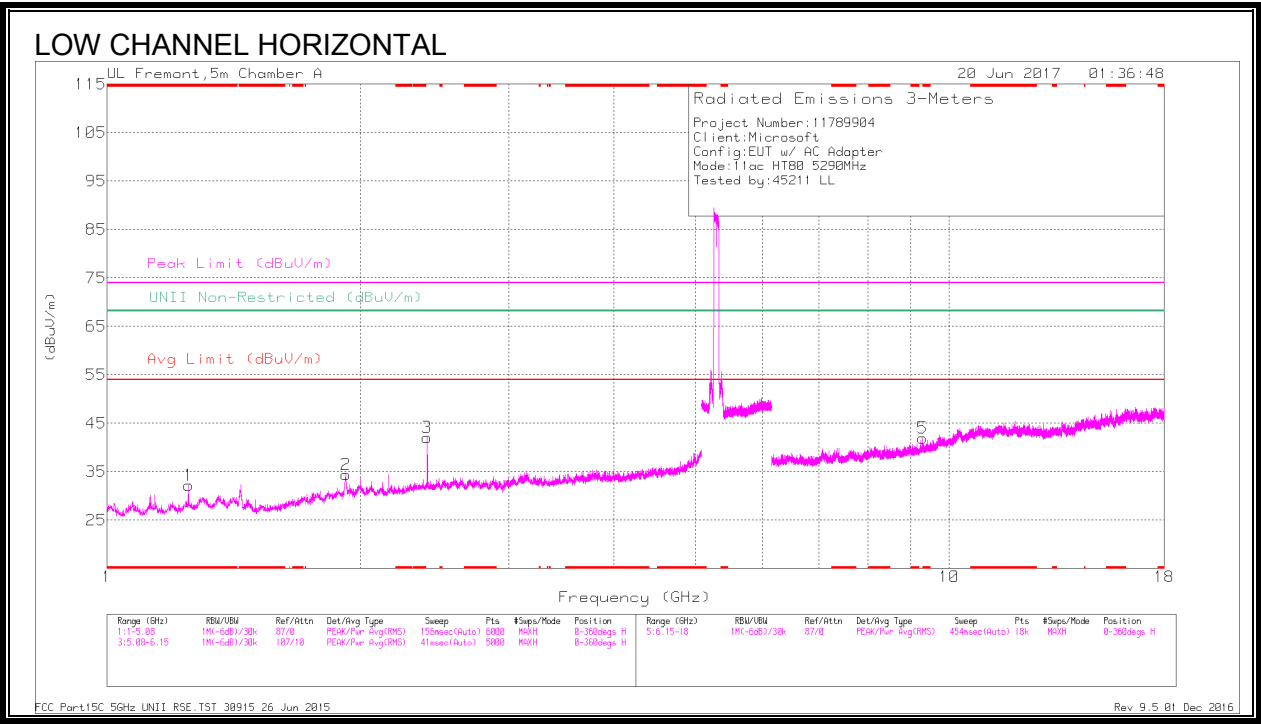
RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Dot	AF T711 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	41.72	Pk	34.3	-18.9	57.12	-	-	74	-16.88	110	238	V
2	* 5.374	52.43	Pk	34.3	-18.6	68.13	-	-	74	-5.87	110	238	V
3	* 5.35	32.79	RMS	34.3	-18.9	48.19	54	-5.81	-	-	110	238	V
4	* 5.364	37.34	RMS	34.3	-18.7	52.94	54	-1.06	-	-	110	238	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Fitr/Pad (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	* 1.25	44.35	PK-U	29.1	-34.3	39.15	-	-	74	-34.85	-	-	262	112	H
	* 1.25	35.85	ADR	29.1	-34.3	30.65	54	-23.35	-	-	-	-	262	112	H
6	* 11.494	32.59	PK-U	38.1	-19.7	50.99	-	-	74	-23.01	-	-	109	102	V
	* 11.493	20.55	ADR	38.1	-19.7	38.95	54	-15.05	-	-	-	-	109	102	V
2	1.921	52.93	PK-U	31.3	-33.3	50.93	-	-	-	-	68.2	-17.27	207	125	H
3	2.4	47.44	PK-U	32.1	-32.2	47.34	-	-	-	-	68.2	-20.86	353	242	H
4	3.45	39.09	PK-U	32.9	-30.3	41.69	-	-	-	-	68.2	-26.51	42	400	V
5	9.296	33.14	PK-U	36.2	-22.4	46.94	-	-	-	-	68.2	-21.26	178	200	H

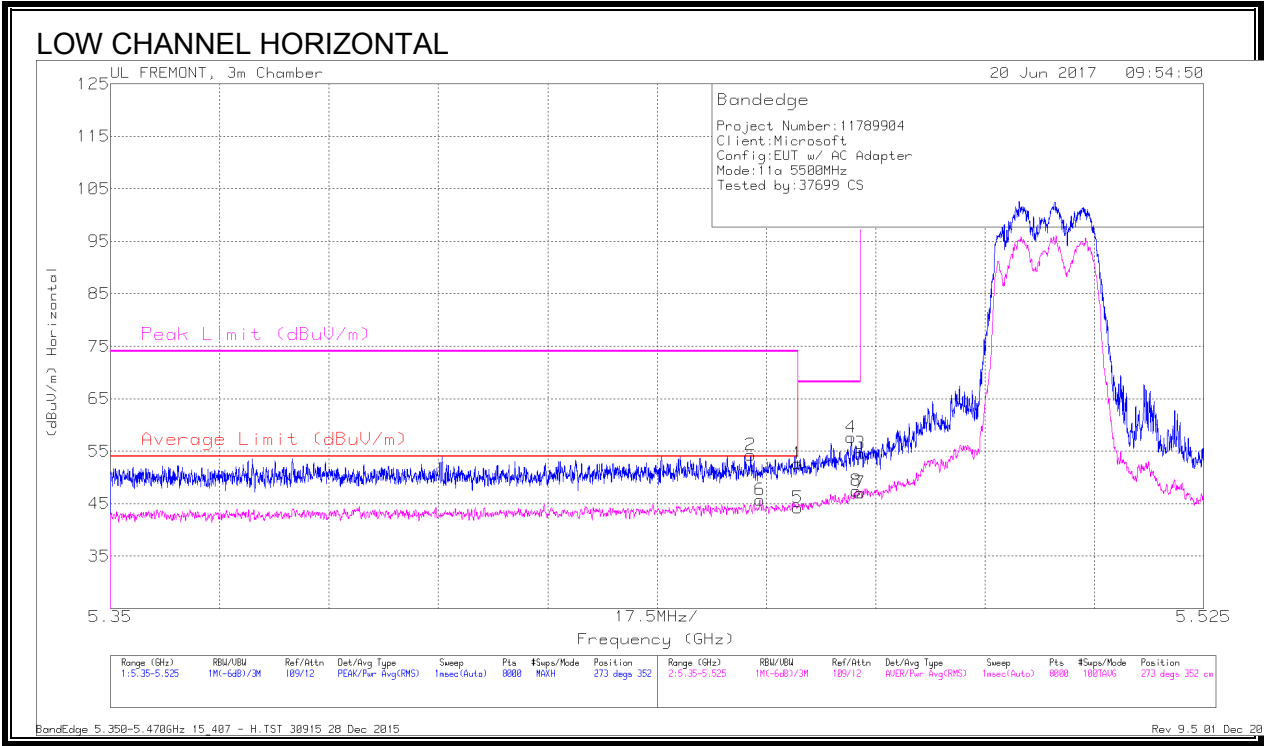
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

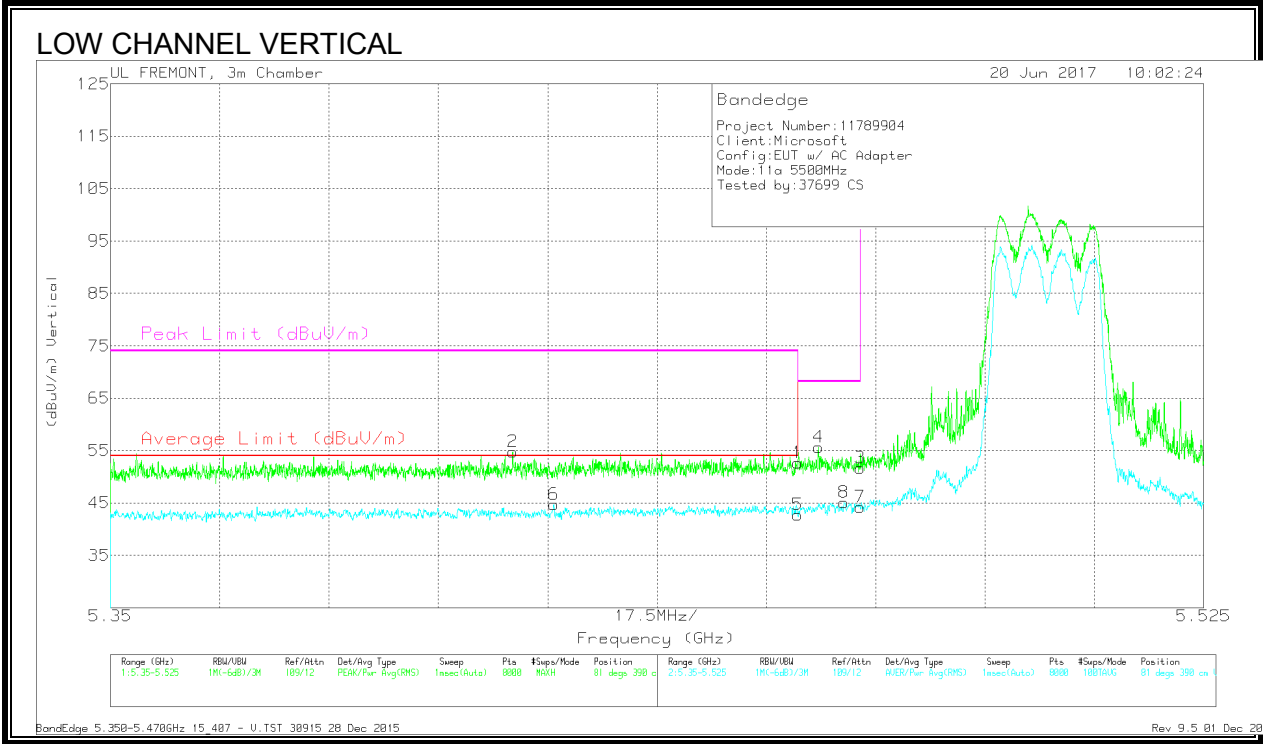
10.1.9. 11a 2TX MODE IN THE 5.6GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.452	39.63	Pk	34.5	-19.9	54.23	-	-	74	-19.77	273	352	H
6	5.454	31.05	RMS	34.5	-19.9	45.65	54	-8.35	-	-	273	352	H
1	5.46	37.93	Pk	34.5	-19.8	52.63	-	-	74	-21.37	273	352	H
5	5.46	29.54	RMS	34.5	-19.8	44.24	54	-9.76	-	-	273	352	H
4	5.469	42.91	Pk	34.5	-19.8	57.61	-	-	68.2	-10.59	273	352	H
8	5.469	32.75	RMS	34.5	-19.8	47.45	-	-	-	-	273	352	H
3	5.47	39.97	Pk	34.5	-19.9	54.57	-	-	68.2	-13.63	273	352	H
7	5.47	32.41	RMS	34.5	-19.9	47.01	-	-	-	-	273	352	H

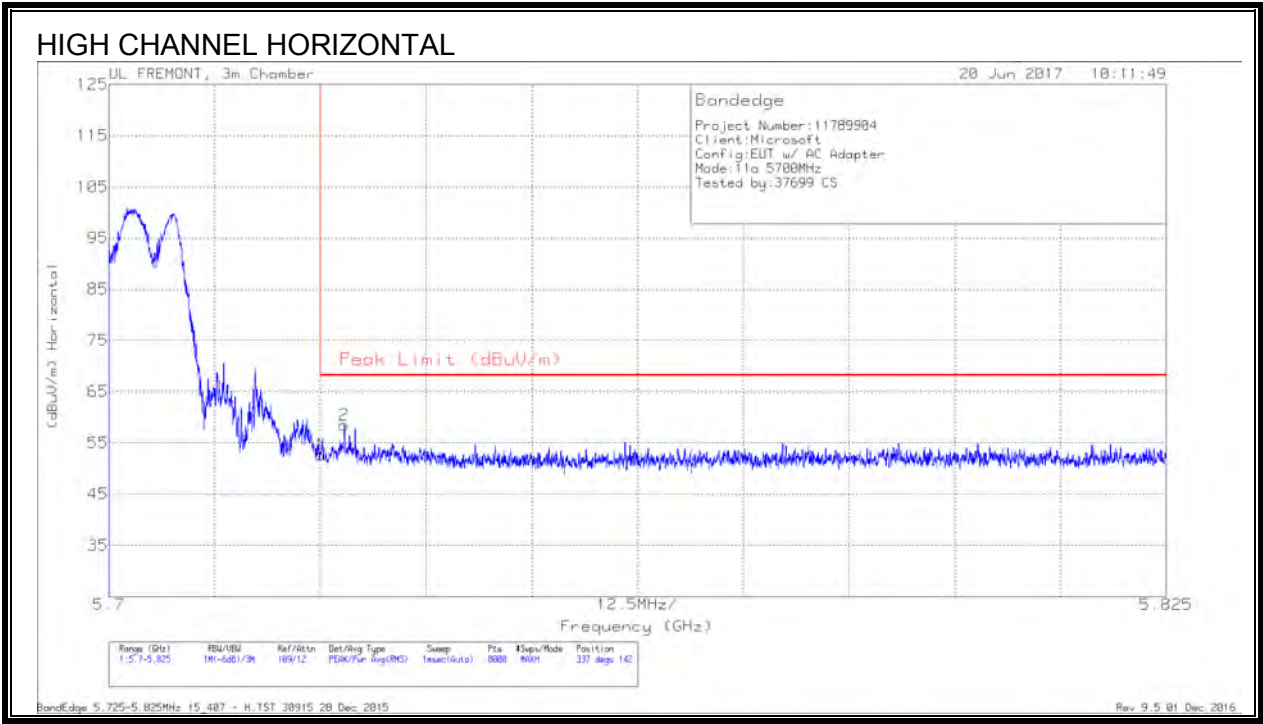
Pk - Peak detector
RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.414	40.21	Pk	34.4	-19.9	54.71	-	-	74	-19.29	81	390	V
6	5.421	30.27	RMS	34.4	-20	44.67	54	-9.33	-	-	81	390	V
1	5.46	38	Pk	34.5	-19.8	52.7	-	-	74	-21.3	81	390	V
5	5.46	28.05	RMS	34.5	-19.8	42.75	54	-11.25	-	-	81	390	V
4	5.463	41.01	Pk	34.5	-19.9	55.61	-	-	68.2	-12.59	81	390	V
8	5.467	30.48	RMS	34.5	-19.9	45.08	-	-	-	-	81	390	V
3	5.47	37.07	Pk	34.5	-19.9	51.67	-	-	68.2	-16.53	81	390	V
7	5.47	29.62	RMS	34.5	-19.9	44.22	-	-	-	-	81	390	V

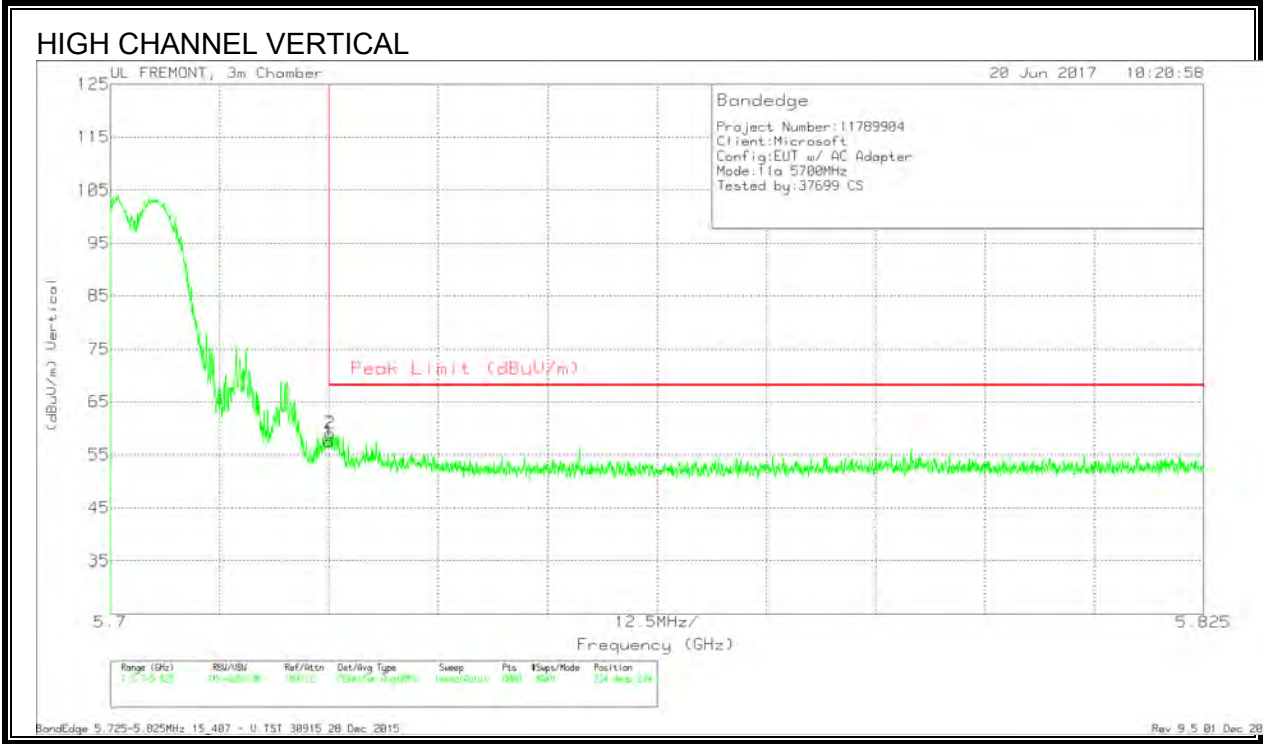
Pk - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.76	Pk	34.7	-19.8	52.66	68.2	-15.54	337	142	H
2	5.728	43.7	Pk	34.7	-19.9	58.5	68.2	-9.7	337	142	H

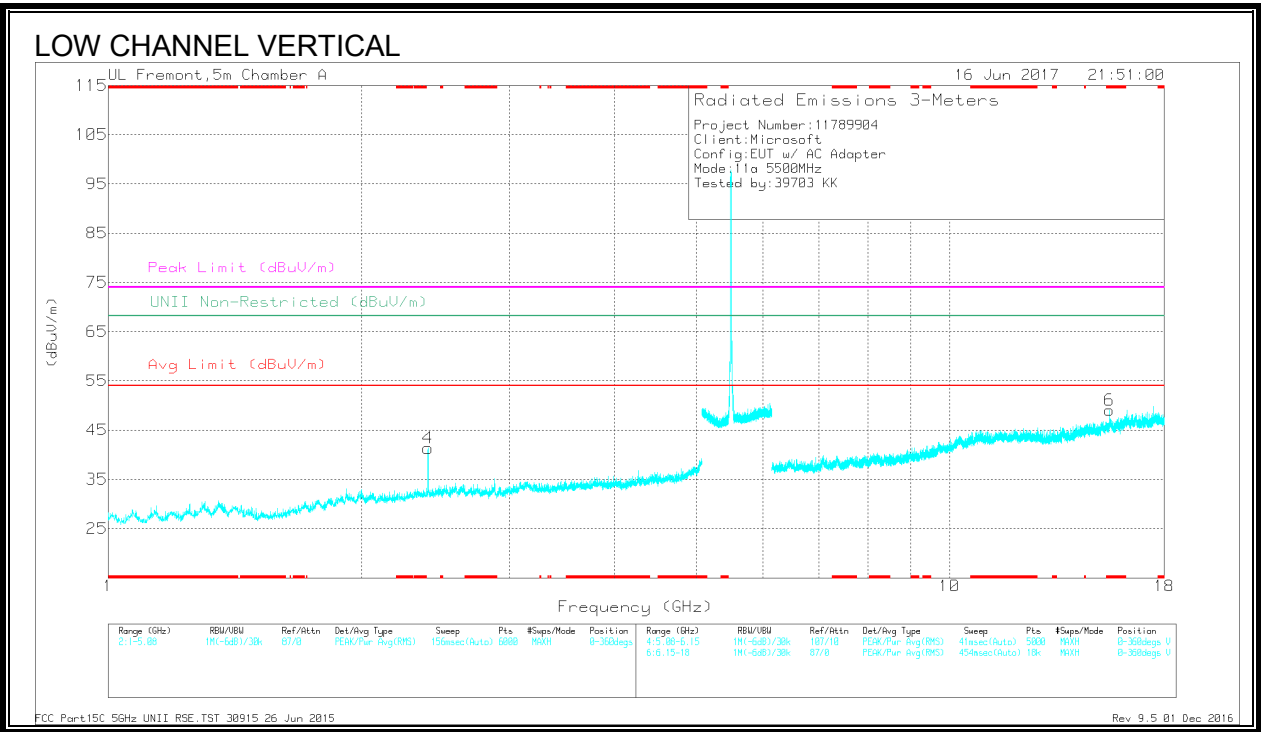
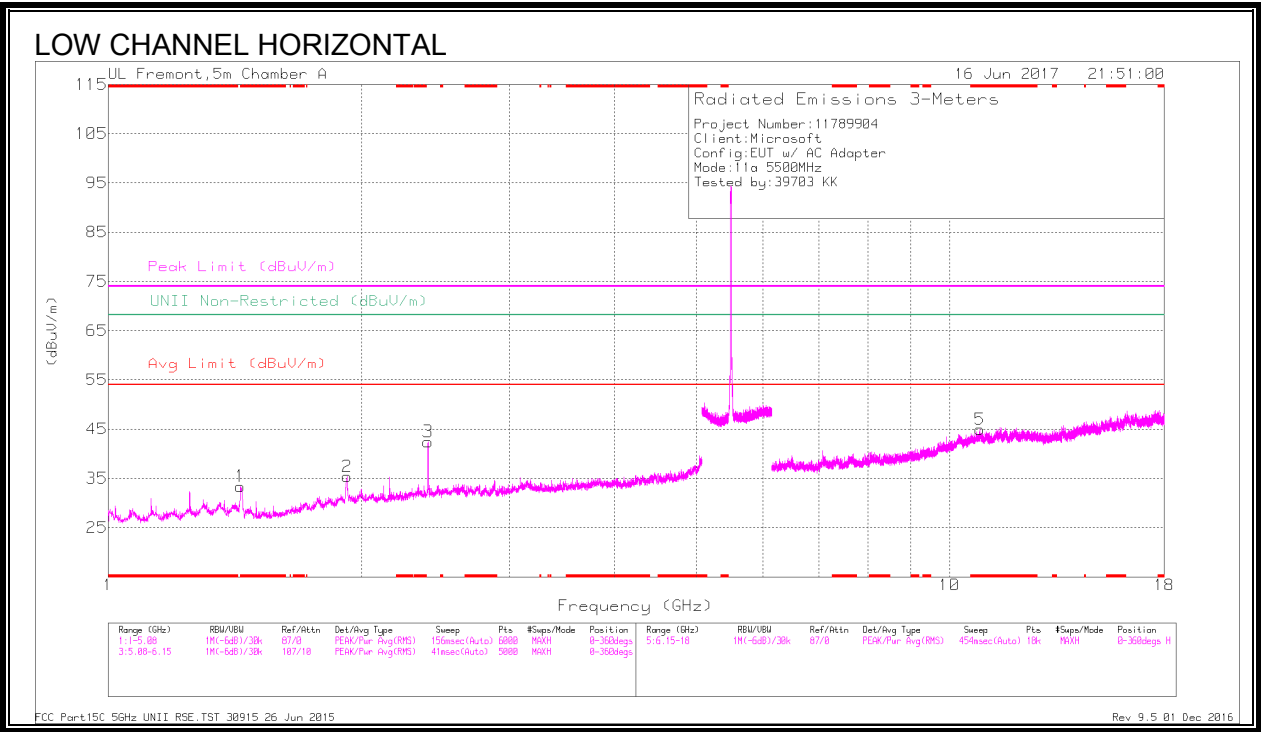
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	42.54	Pk	34.7	-19.8	57.44	68.2	-10.76	234	249	V
2	5.725	44.15	Pk	34.7	-19.8	59.05	68.2	-9.15	234	249	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

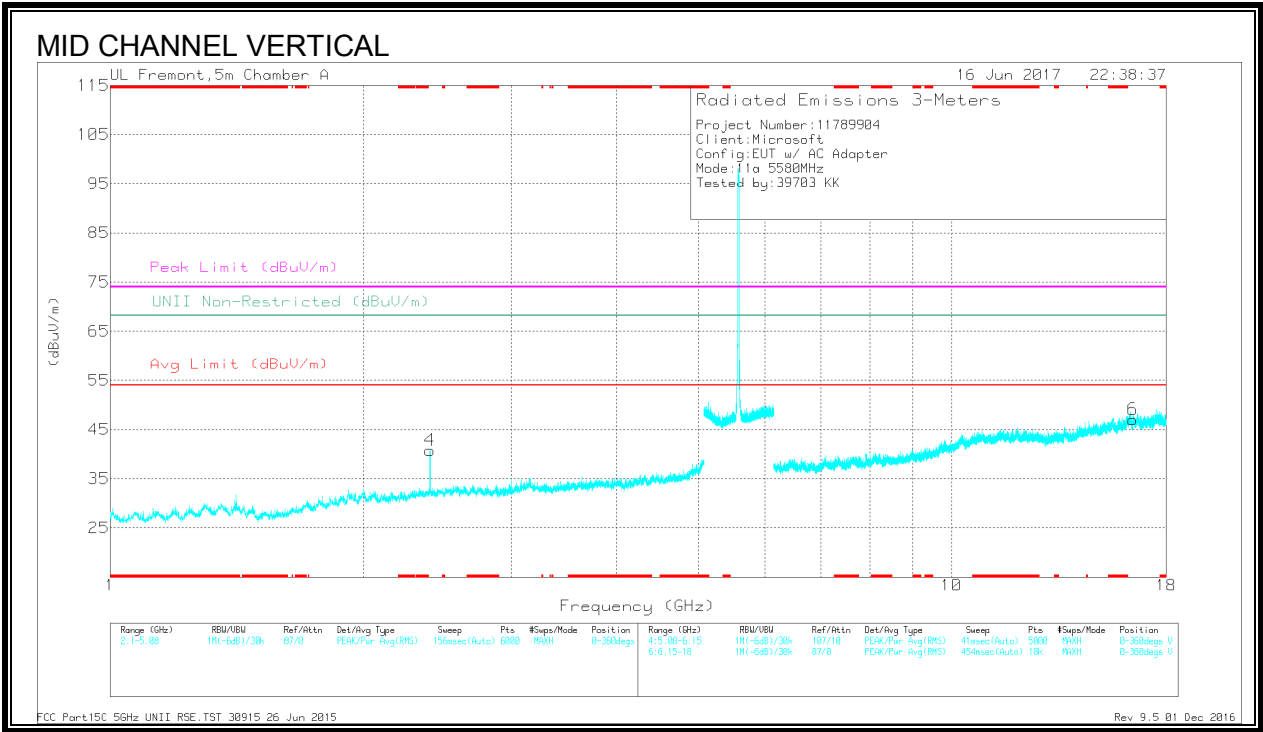
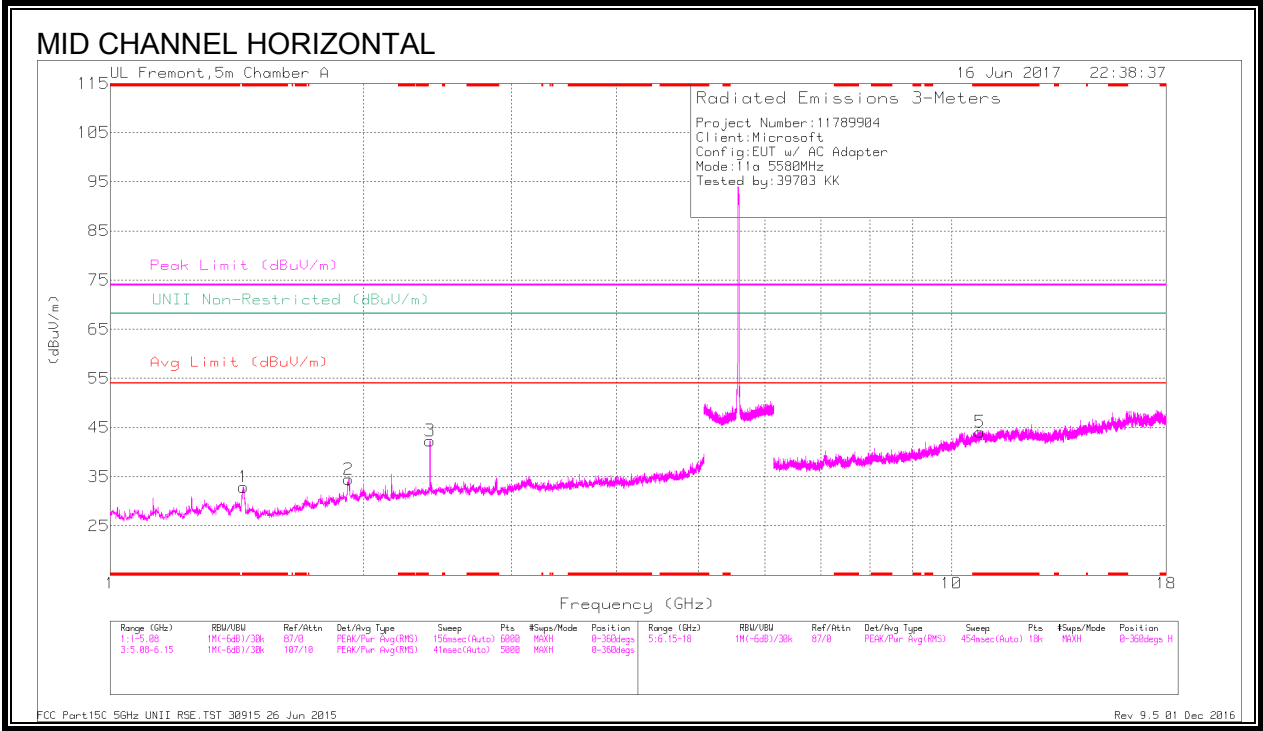


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.461	41.01	PK-U	28.6	-33.4	36.21	-	-	74	-37.79	-	-	246	197	H
	* 1.355	28.96	ADR	29.4	-33.4	24.96	54	-29.04	-	-	-	-	246	197	H
5	* 10.868	31.81	PK-U	37.9	-19.5	50.21	-	-	74	-23.79	-	-	194	256	H
	* 10.868	20.88	ADR	37.9	-19.5	39.28	54	-14.72	-	-	-	-	194	256	H
6	* 15.487	31.55	PK-U	40.3	-19.4	52.45	-	-	74	-21.55	-	-	194	256	V
	* 15.486	21.02	ADR	40.3	-19.5	41.82	54	-12.18	-	-	-	-	194	256	V
2	1.923	40.2	PK-U	31.3	-33.3	38.2	-	-	-	-	68.2	-30	220	400	H
3	2.4	48.87	PK-U	32.1	-32.3	48.67	-	-	-	-	68.2	-19.53	168	171	H
4	2.4	44.07	PK-U	32.1	-32.2	43.97	-	-	-	-	68.2	-24.23	287	142	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

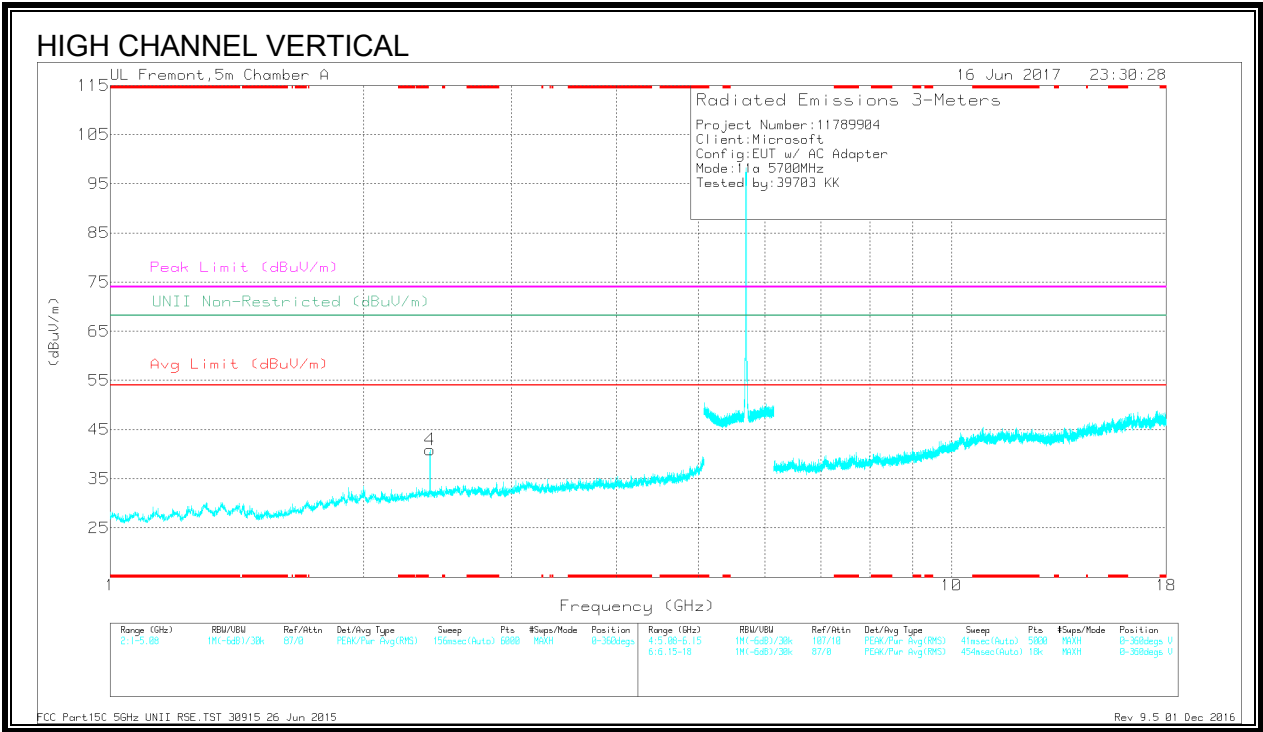
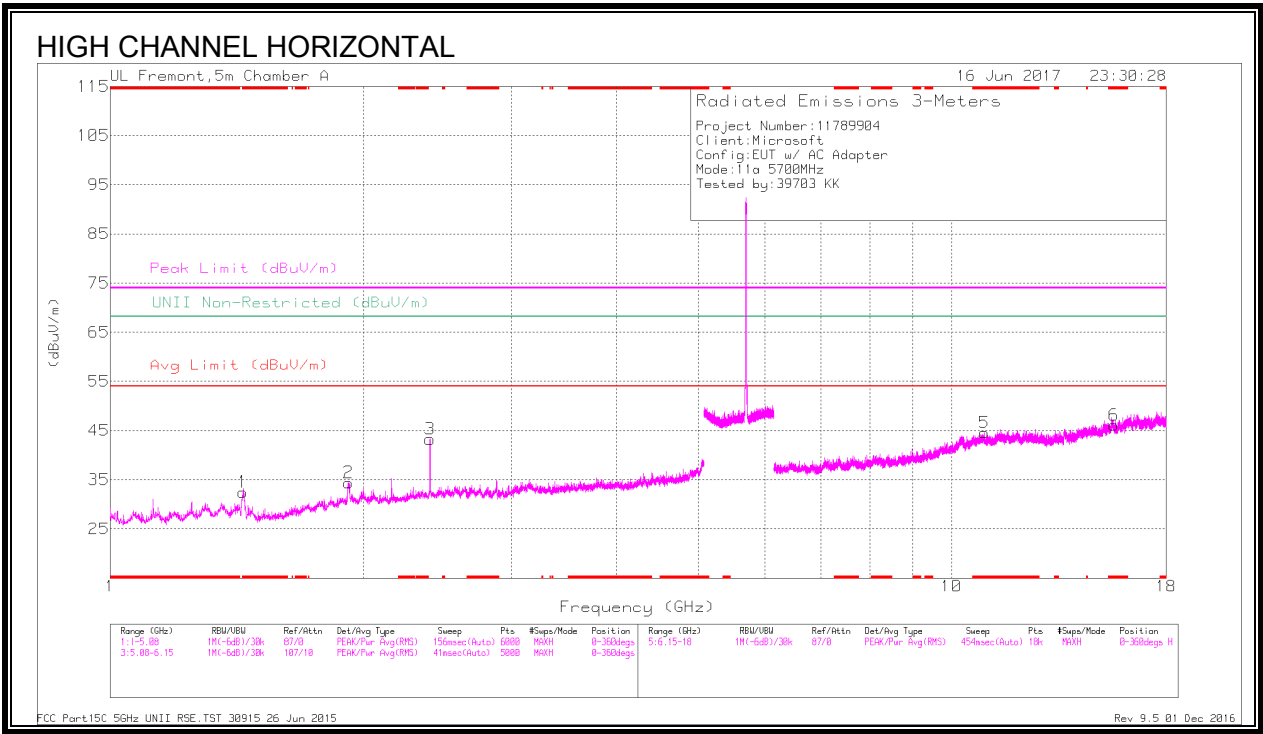


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.44	53.15	PK-U	28.8	-33.6	48.35	-	-	74	-25.65	-	-	209	106	H
	* 1.44	33.67	ADR	28.8	-33.6	28.87	54	-25.13	-	-	-	-	209	106	H
5	* 10.816	32.34	PK-U	37.9	-19.9	50.34	-	-	74	-23.66	-	-	194	253	H
	* 10.816	21.13	ADR	37.9	-19.9	39.13	54	-14.87	-	-	-	-	194	253	H
2	1.919	52.14	PK-U	31.3	-33.3	50.14	-	-	-	-	68.2	-18.06	161	168	H
4	2.4	45.9	PK-U	32.1	-32.3	45.7	-	-	-	-	68.2	-22.5	194	253	V
3	2.401	48.36	PK-U	32.1	-32.2	48.26	-	-	-	-	68.2	-19.94	170	118	H
6	16.43	32.24	PK-U	41.6	-20.8	53.04	-	-	-	-	68.2	-15.16	89	201	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Fitr/Pad (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	* 1.44	53.25	PK-U	28.8	-33.6	48.45	-	-	74	-25.55	-	-	216	199	H
	* 1.44	33.91	ADR	28.8	-33.6	29.11	54	-24.89	-	-	-	-	216	199	H
5	* 10.946	31.66	PK-U	37.8	-19.8	49.66	-	-	74	-24.34	-	-	172	124	H
	* 10.948	21.29	ADR	37.8	-19.9	39.19	54	-14.81	-	-	-	-	172	124	H
6	* 15.597	31.82	PK-U	40.4	-20.1	52.12	-	-	74	-21.88	-	-	172	124	H
	* 15.595	21.5	ADR	40.4	-20.1	41.8	54	-12.2	-	-	-	-	172	124	H
2	1.921	52.45	PK-U	31.3	-33.3	50.45	-	-	-	-	68.2	-17.75	165	114	H
3	2.4	47.84	PK-U	32.1	-32.3	47.64	-	-	-	-	68.2	-20.56	169	149	H
4	2.4	45.32	PK-U	32.1	-32.2	45.22	-	-	-	-	68.2	-22.98	172	124	V

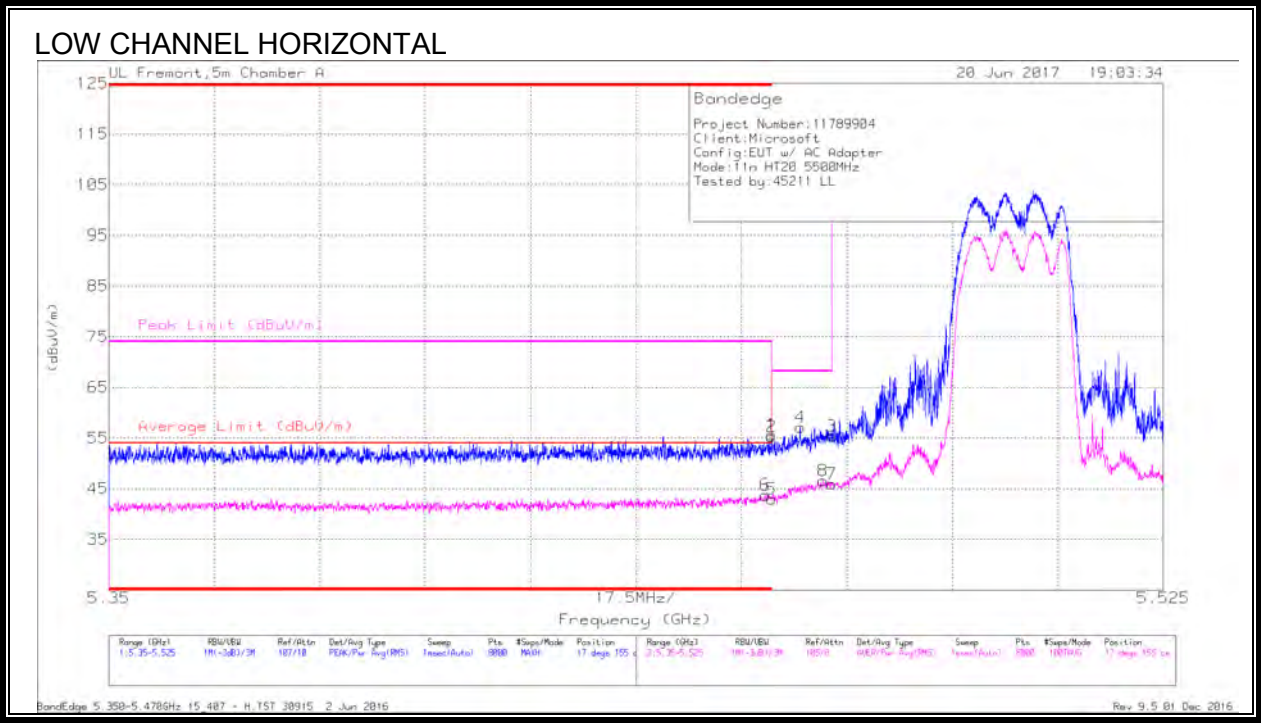
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.10.11n HT20 2TX MODE IN THE 5.6GHz BAND

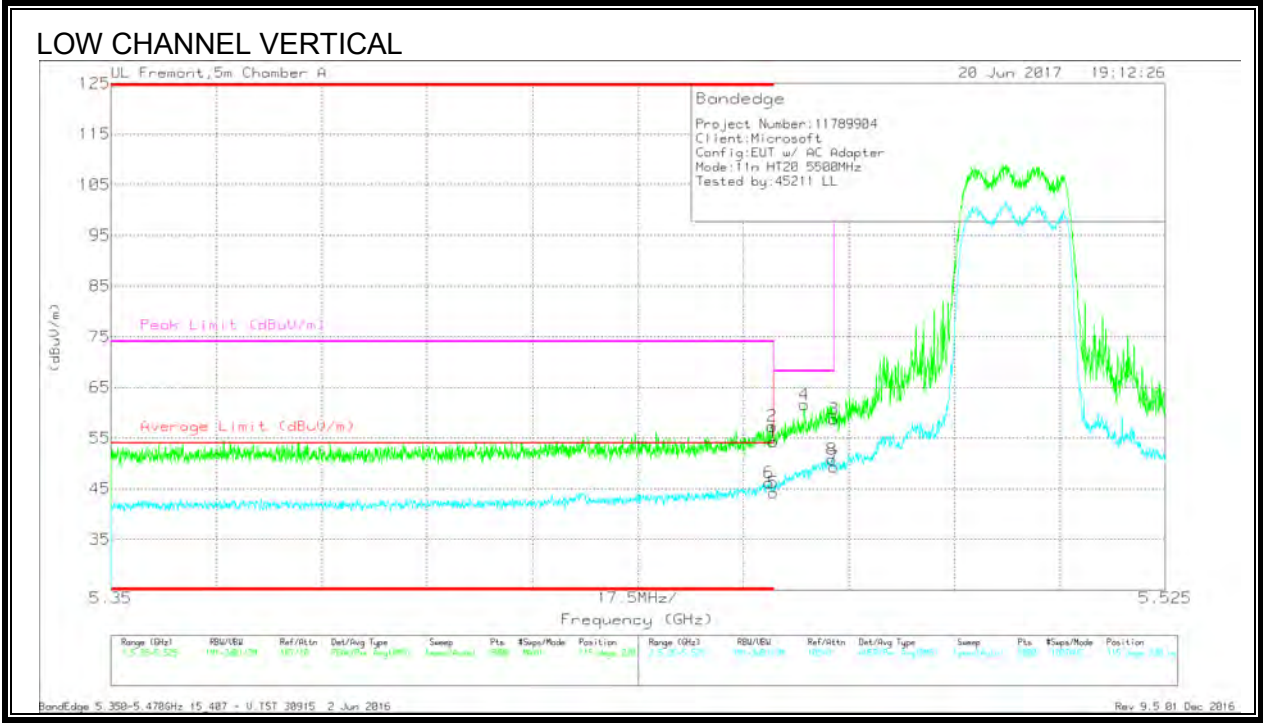
RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	* 5.46	40.17	Pk	34.4	-18.9	55.67	-	-	74	-18.33	17	155	H
2	* 5.46	39.81	Pk	34.4	-18.9	55.31	-	-	74	-18.69	17	155	H
5	* 5.46	27.46	RMS	34.4	-18.9	42.96	54	-11.04	-	-	17	155	H
6	* 5.459	28.27	RMS	34.4	-18.9	43.77	54	-10.23	-	-	17	155	H
4	5.465	41.57	Pk	34.4	-18.8	57.17	-	-	68.2	-11.03	17	155	H
8	5.469	30.82	RMS	34.4	-18.7	46.52	-	-	-	-	17	155	H
3	5.47	39.72	Pk	34.4	-18.7	55.42	-	-	68.2	-12.78	17	155	H
7	5.47	30.22	RMS	34.4	-18.7	45.92	-	-	-	-	17	155	H

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

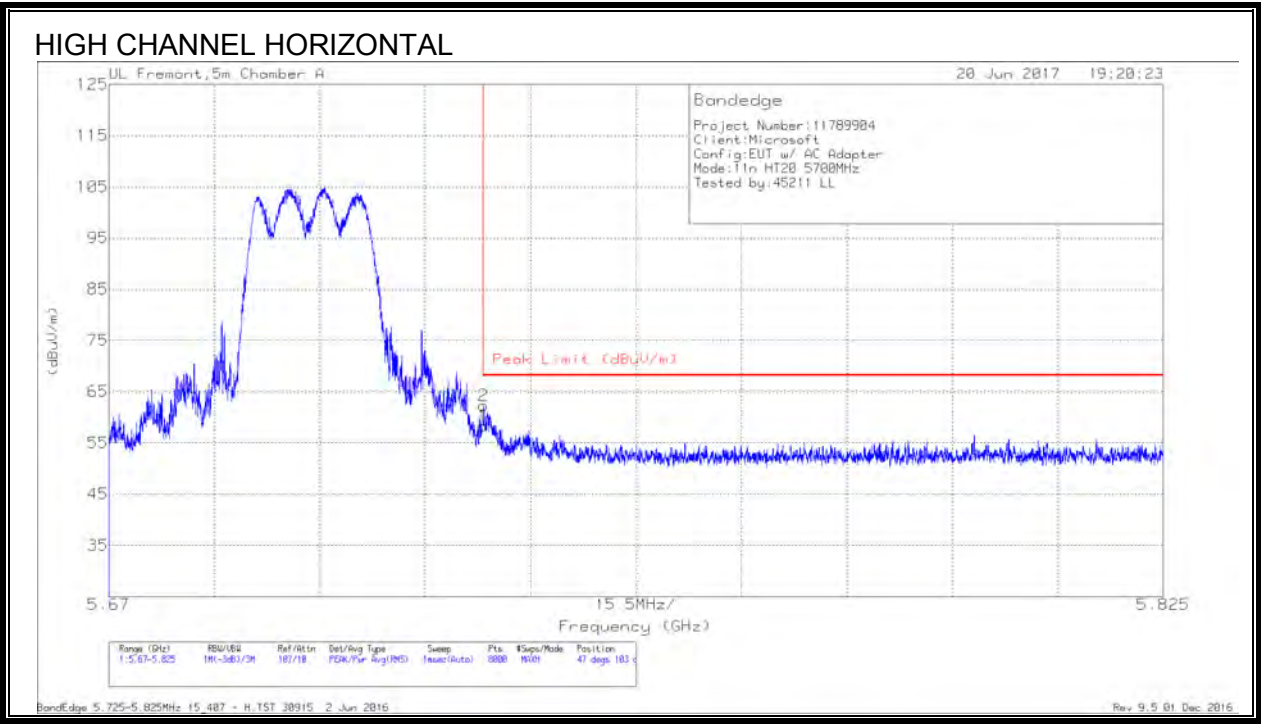
Pk - Peak detector
RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	38.81	Pk	34.4	-18.9	54.31	-	-	74	-19.69	115	230	V
2	* 5.46	41.81	Pk	34.4	-18.9	57.31	-	-	74	-16.69	115	230	V
5	* 5.46	28.7	RMS	34.4	-18.9	44.2	54	-9.8	-	-	115	230	V
6	* 5.459	30.69	RMS	34.4	-18.9	46.19	54	-7.81	-	-	115	230	V
4	5.465	45.94	Pk	34.4	-18.7	61.64	-	-	68.2	-6.56	115	230	V
3	5.47	43.06	Pk	34.4	-18.7	58.76	-	-	68.2	-9.44	115	230	V
7	5.47	33.59	RMS	34.4	-18.7	49.29	-	-	-	-	115	230	V
8	5.47	35.12	RMS	34.4	-18.7	50.82	-	-	-	-	115	230	V

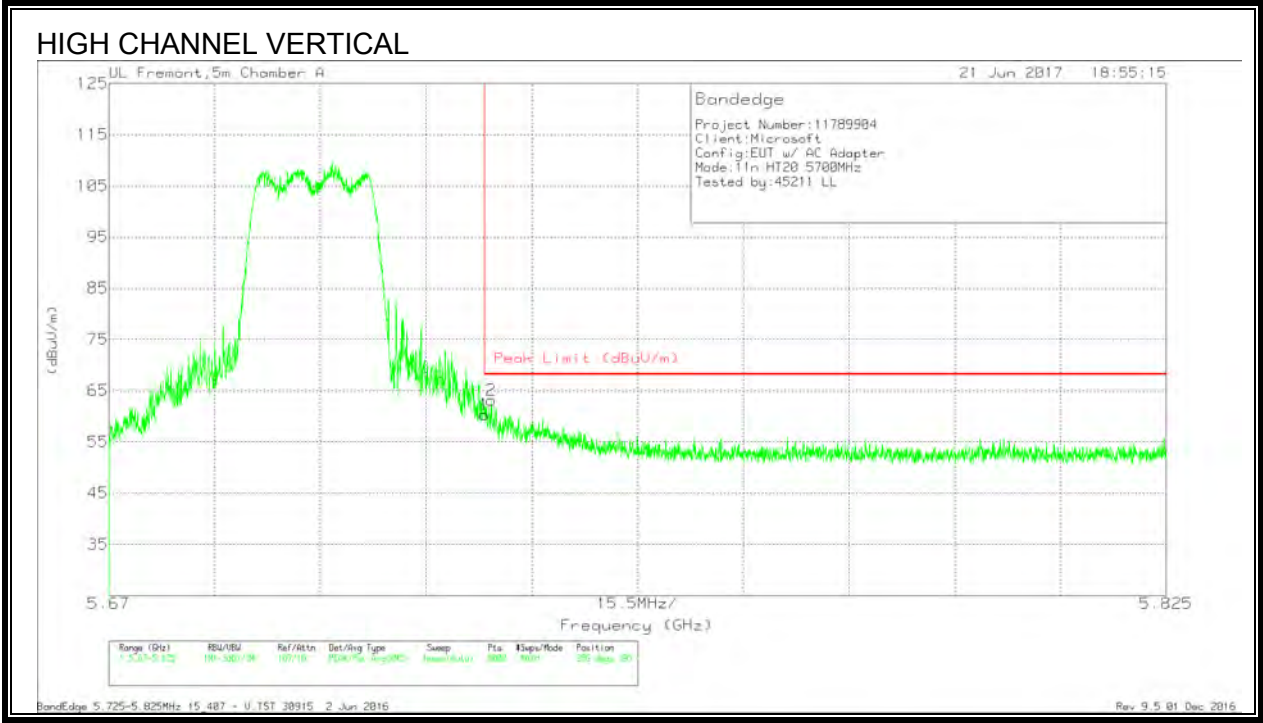
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	42.5	Pk	34.8	-19	58.3	68.2	-9.9	47	103	H
2	5.725	46.47	Pk	34.8	-19	62.27	68.2	-5.93	47	103	H

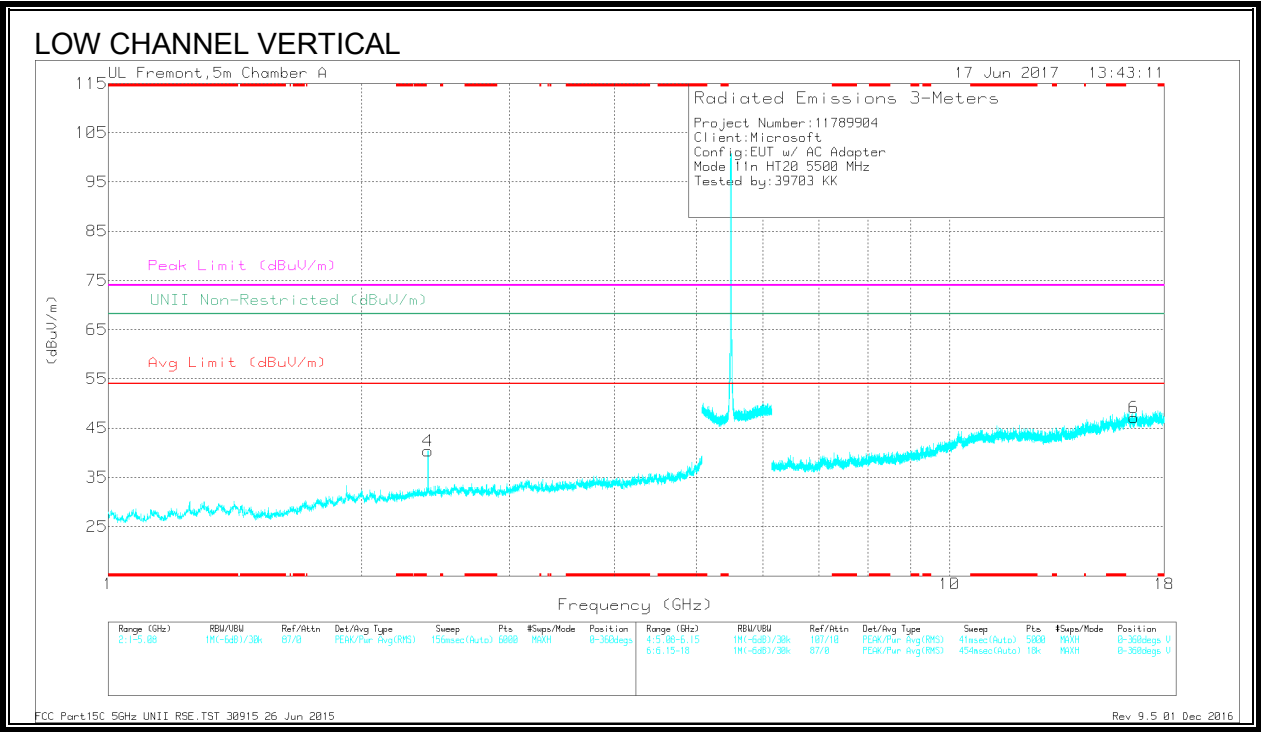
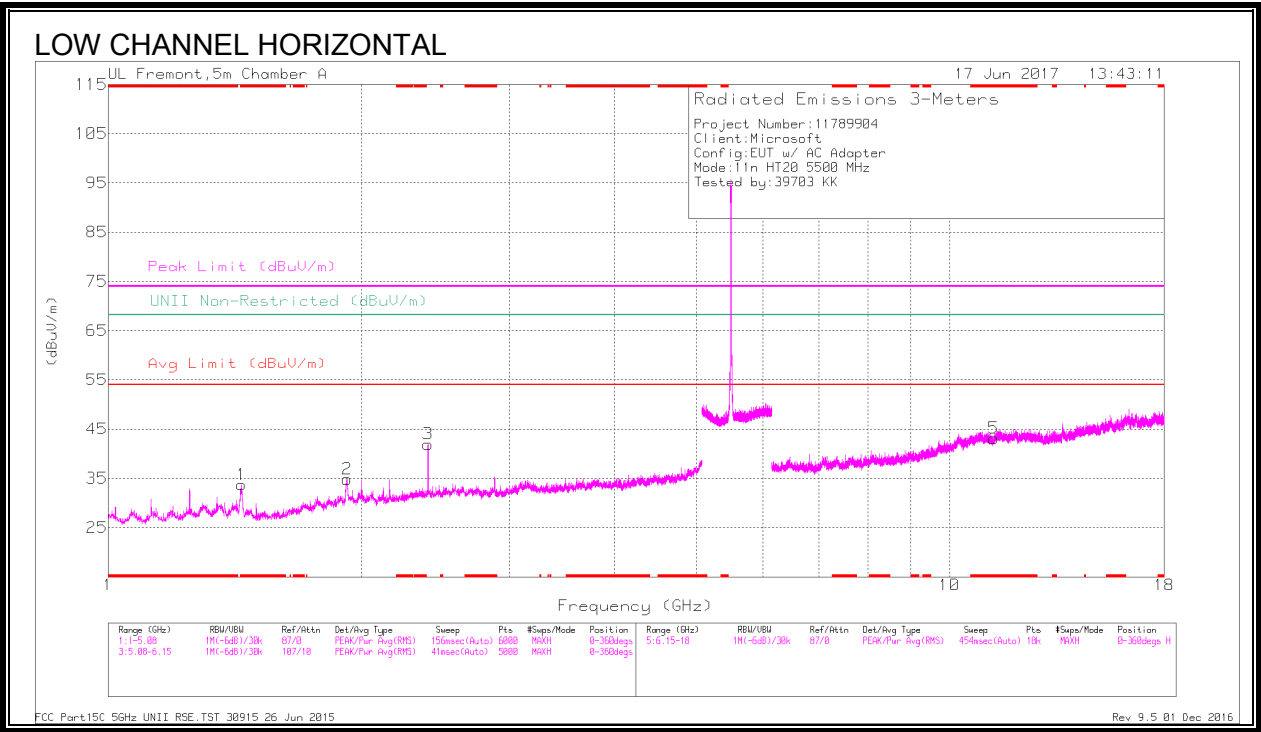
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	44.54	Pk	34.8	-19	60.34	68.2	-7.86	289	395	V
2	5.726	47.34	Pk	34.8	-19	63.14	68.2	-5.06	289	395	V

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

HARMONICS AND SPURIOUS EMISSIONS

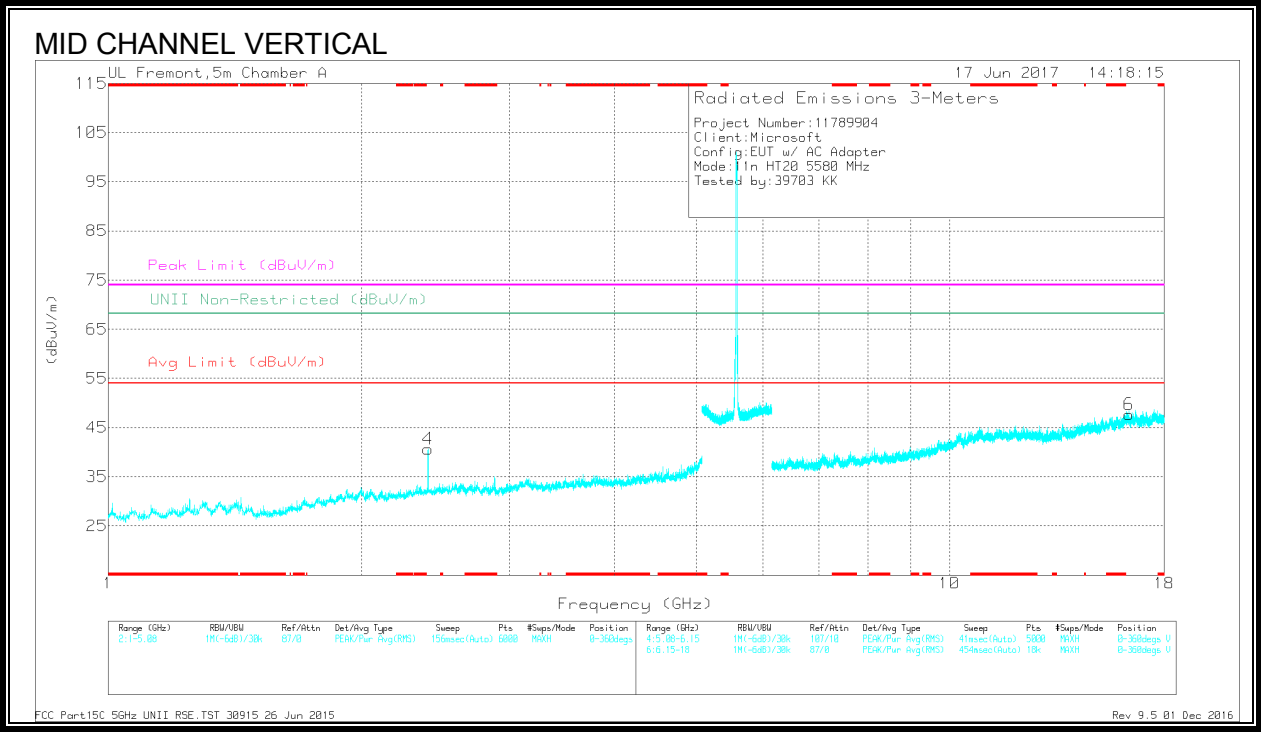
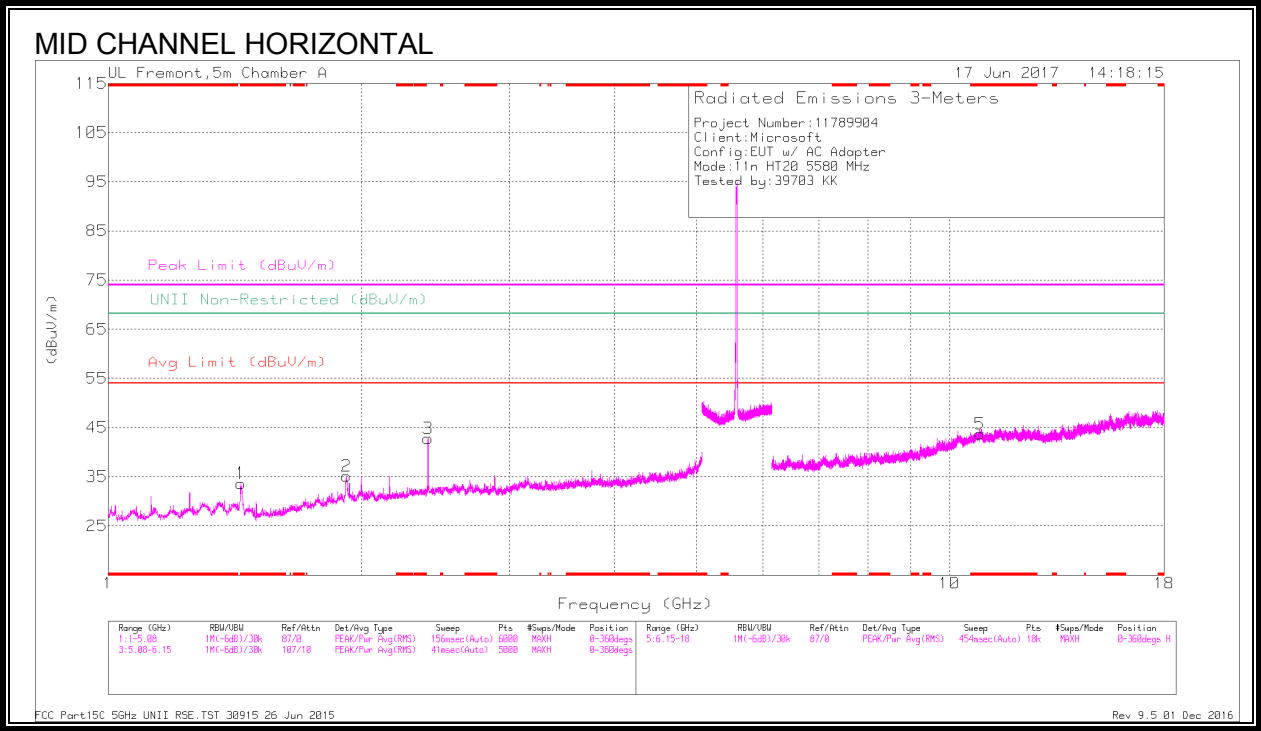


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 11.286	31.43	PK-U	37.9	-20	49.33	-	-	74	-24.67	-	-	170	199	H
	* 11.286	20.86	ADR	37.9	-20	38.76	54	-15.24	-	-	-	-	170	199	H
2	1.921	49.85	PK-U	31.3	-33.3	47.85	-	-	-	-	68.2	-20.35	208	102	H
3	2.4	48.8	PK-U	32.1	-32.2	48.7	-	-	-	-	68.2	-19.5	169	175	H
4	2.4	45.83	PK-U	32.1	-32.2	45.73	-	-	-	-	68.2	-22.47	170	103	V
6	16.567	32.43	PK-U	41.7	-21	53.13	-	-	-	-	68.2	-15.07	170	102	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

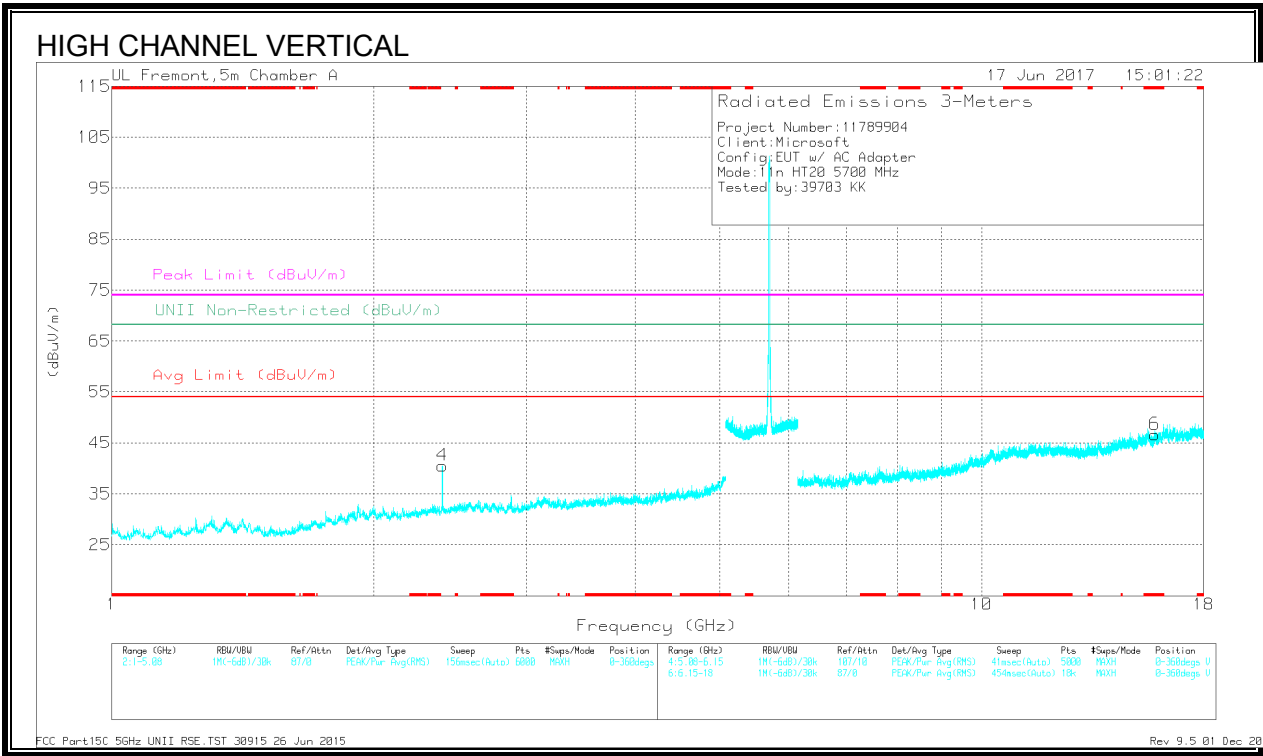
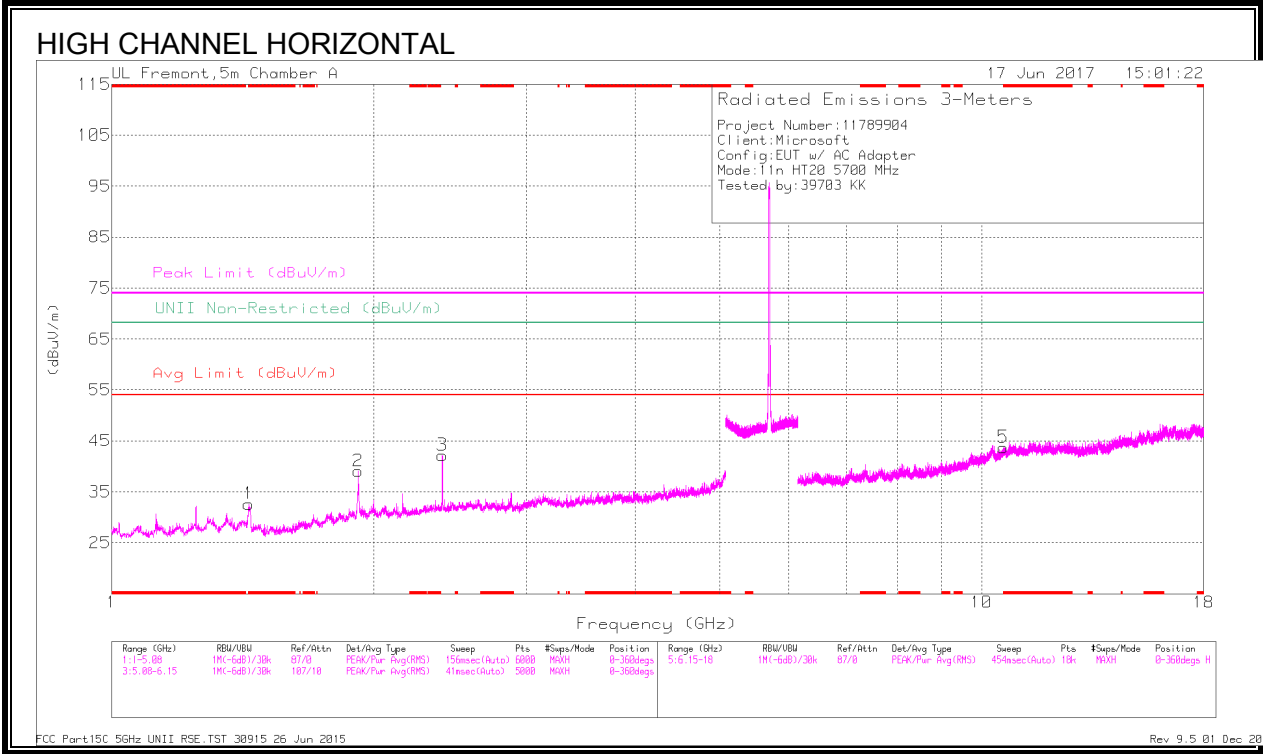


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.437	39.56	PK-U	28.8	-33.5	34.86	-	-	74	-39.14	-	-	213	147	H
	* 1.44	27.84	ADR	28.8	-33.6	23.04	54	-30.96	-	-	-	-	213	147	H
5	* 10.867	31.91	PK-U	37.9	-19.5	50.31	-	-	74	-23.69	-	-	170	199	H
	* 10.865	20.78	ADR	37.9	-19.5	39.18	54	-14.82	-	-	-	-	170	199	H
2	1.921	40.17	PK-U	31.3	-33.3	38.17	-	-	-	-	68.2	-30.03	213	199	H
3	2.4	48.03	PK-U	32.1	-32.3	47.83	-	-	-	-	68.2	-20.37	129	224	H
4	2.4	45.16	PK-U	32.1	-32.3	44.96	-	-	-	-	68.2	-23.24	170	103	V
6	16.345	32.34	PK-U	41.4	-20.1	53.64	-	-	-	-	68.2	-14.56	170	102	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Filt/Pad (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 (Dege)	Height (cm)	Polarity
1	* 1.439	49.93	PK-U	28.8	-33.5	45.23	-	-	74	-28.77	-	-	221	243	H
	* 1.439	30.14	ADR	28.8	-33.5	25.44	54	-28.56	-	-	-	-	221	243	H
6	* 15.812	32.06	PK-U	40.5	-19.5	53.06	-	-	74	-20.94	-	-	201	200	V
	* 15.812	21.12	ADR	40.5	-19.5	42.12	54	-11.88	-	-	-	-	201	200	V
2	1.921	52.62	PK-U	31.3	-33.3	50.62	-	-	-	-	68.2	-17.58	172	119	H
3	2.4	48.54	PK-U	32.1	-32.3	48.34	-	-	-	-	68.2	-19.86	135	259	H
4	2.4	47.23	PK-U	32.1	-32.3	47.03	-	-	-	-	68.2	-21.17	201	252	V
5	10.592	32.56	PK-U	37.8	-20.4	49.96	-	-	-	-	68.2	-18.24	201	102	H

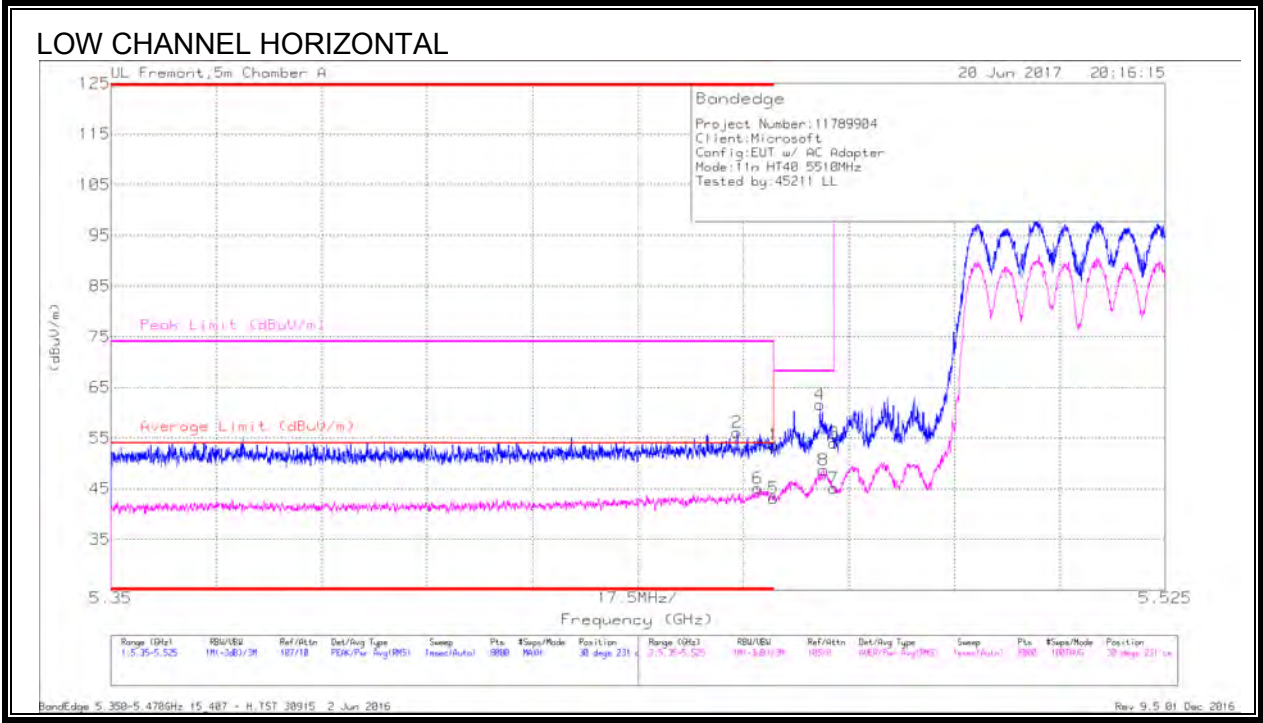
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.11.11n HT40 2TX MODE IN THE 5.6GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

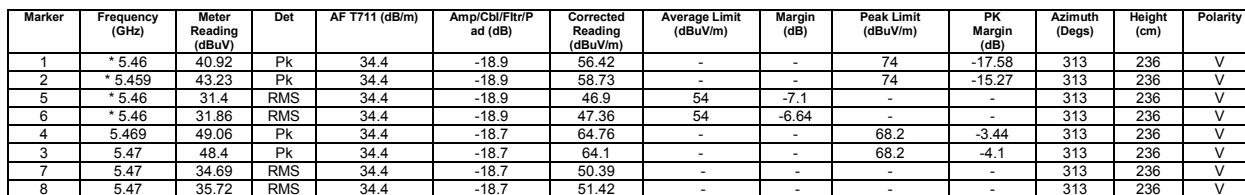


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	* 5.46	38.1	Pk	34.4	-18.9	53.6	-	-	74	-20.4	30	231	H
2	* 5.454	40.55	Pk	34.4	-18.8	56.15	-	-	74	-17.85	30	231	H
5	* 5.46	27.62	RMS	34.4	-18.9	43.12	54	-10.88	-	-	30	231	H
6	* 5.457	29.47	RMS	34.4	-18.8	45.07	54	-8.93	-	-	30	231	H
4	5.468	45.95	Pk	34.4	-18.7	61.65	-	-	68.2	-6.55	30	231	H
8	5.468	32.94	RMS	34.4	-18.7	48.64	-	-	-	-	30	231	H
3	5.47	38.26	Pk	34.4	-18.7	53.96	-	-	68.2	-14.24	30	231	H
7	5.47	29.38	RMS	34.4	-18.7	45.08	-	-	-	-	30	231	H

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

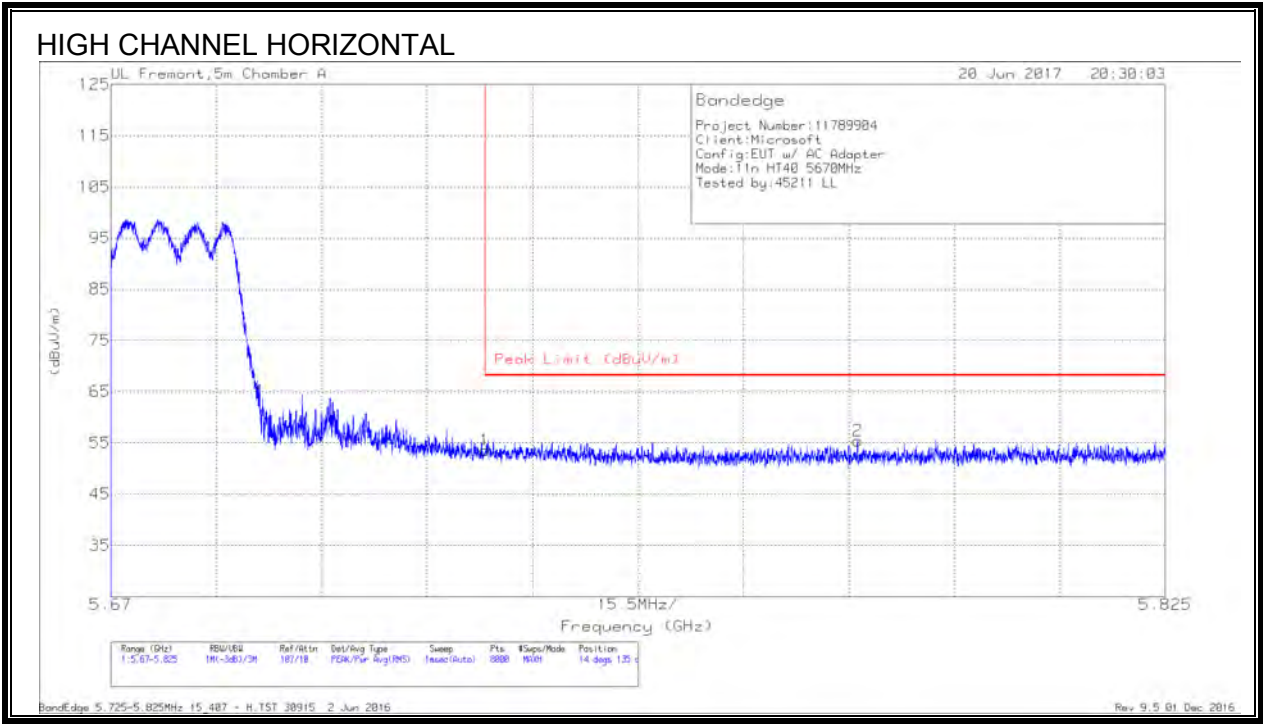
Pk - Peak detector

RMS - RMS detection



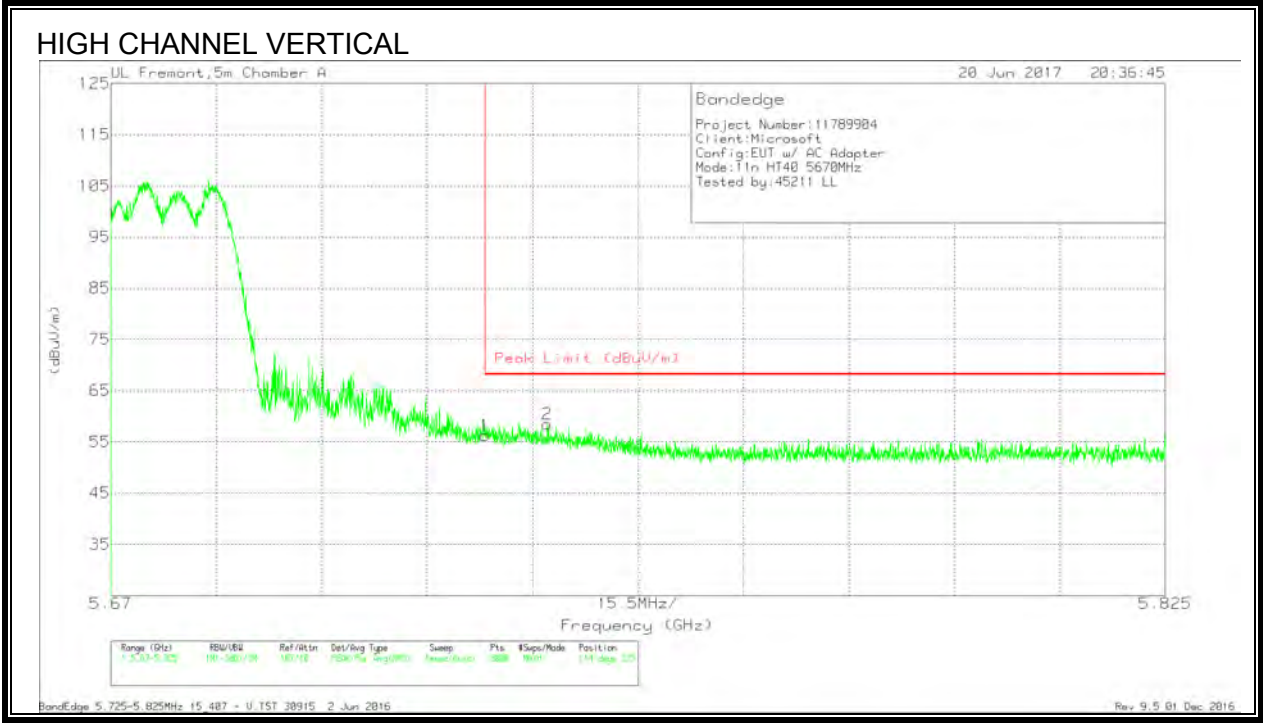
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	37.73	Pk	34.8	-19	53.53	68.2	-14.67	14	135	H
2	5.78	39.52	Pk	34.7	-18.8	55.42	68.2	-12.78	14	135	H

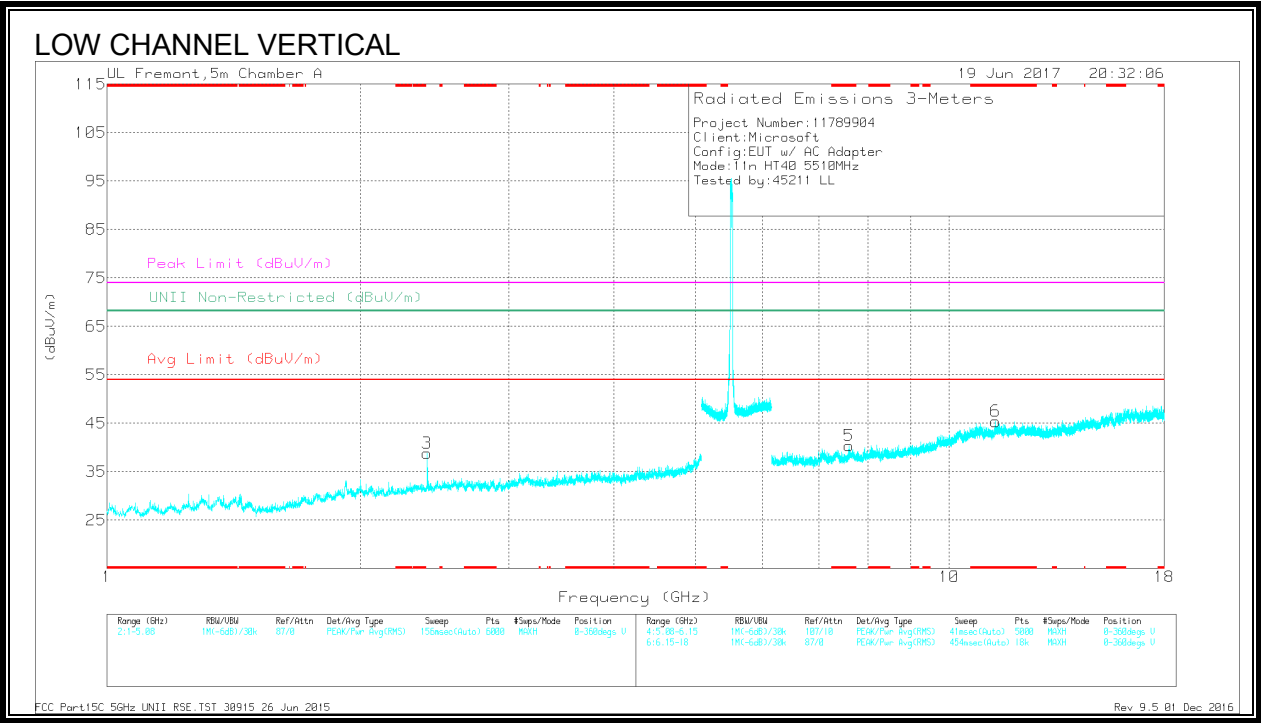
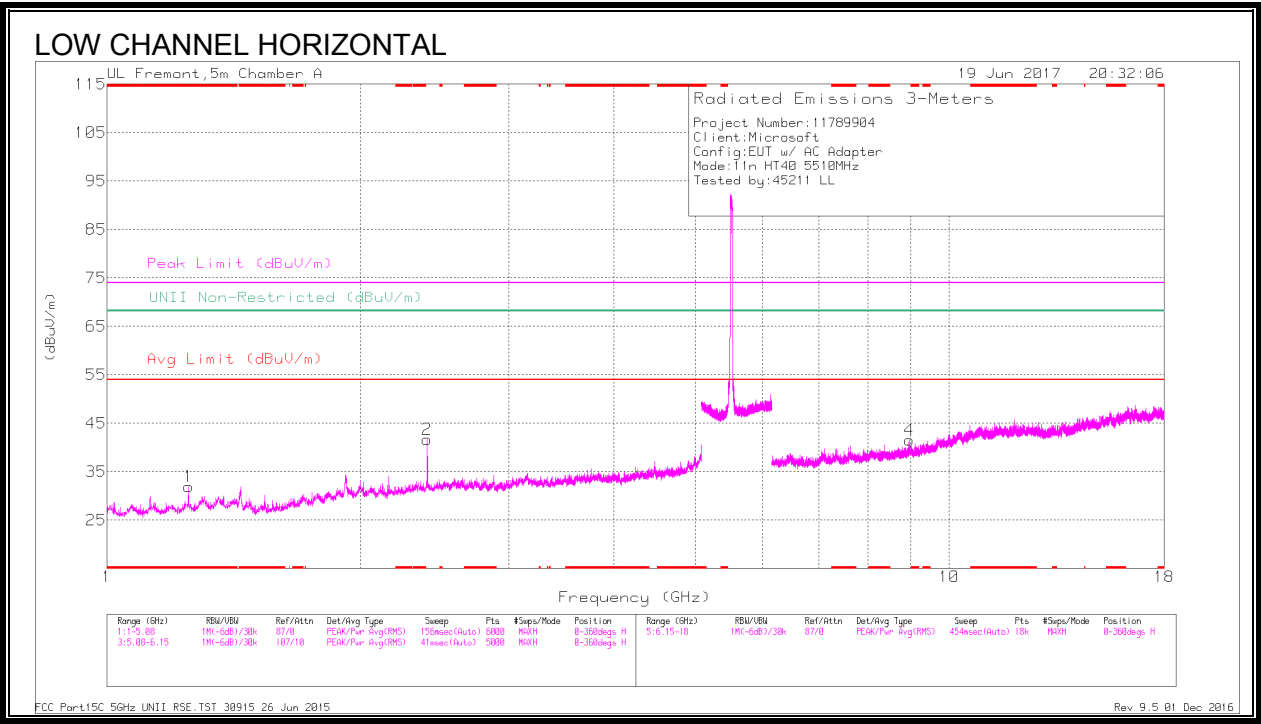
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	40.49	Pk	34.8	-19	56.29	68.2	-11.91	114	235	V
2	5.734	42.64	Pk	34.8	-19	58.44	68.2	-9.76	114	235	V

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

HARMONICS AND SPURIOUS EMISSIONS

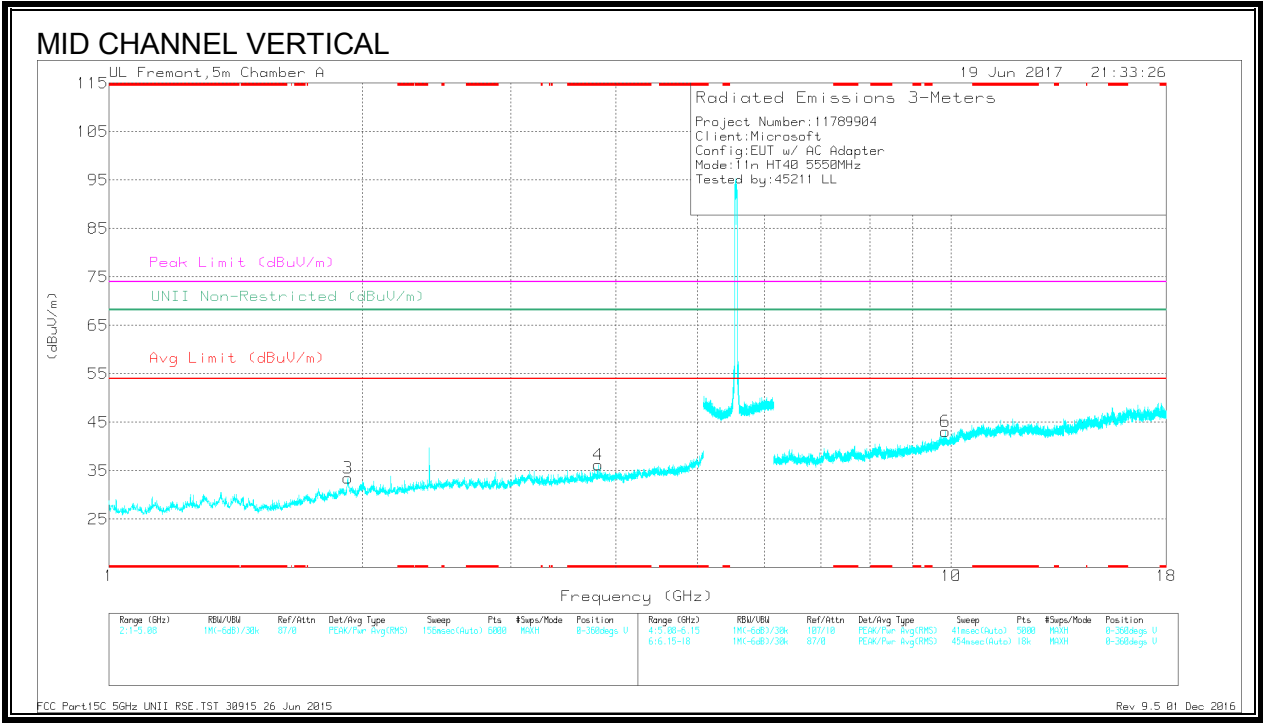
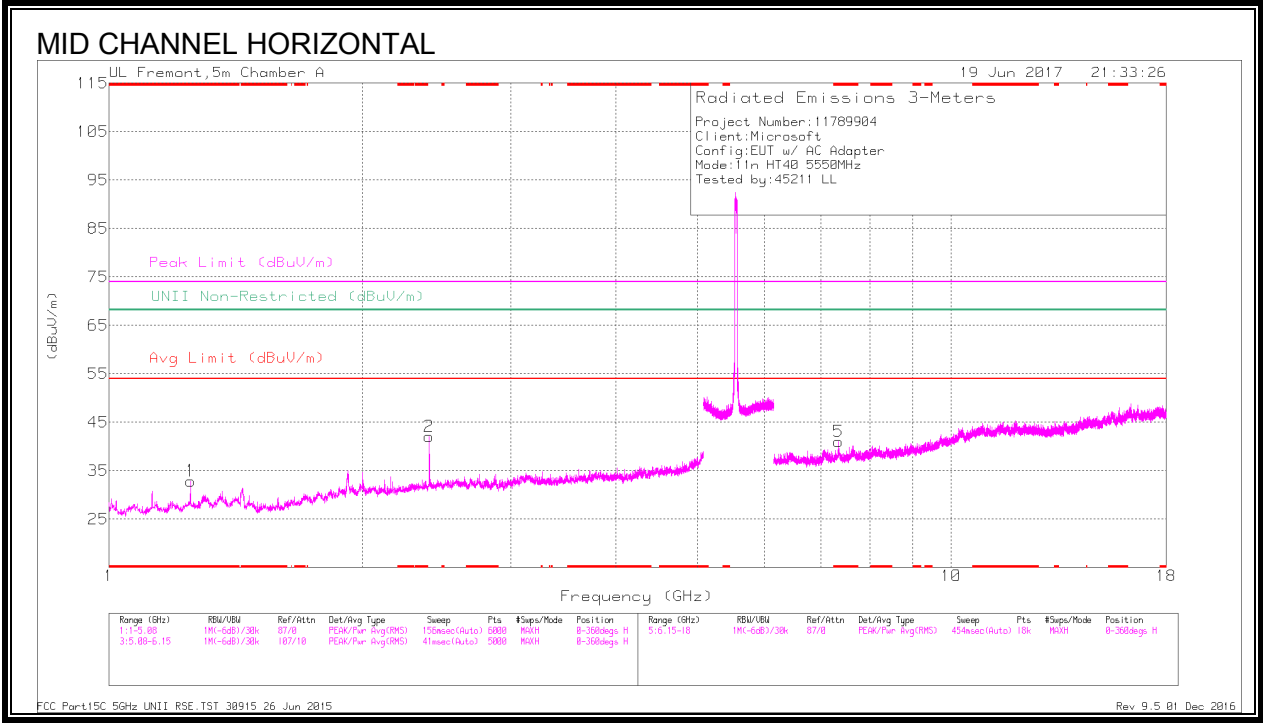


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.25	43.49	PK-U	29.1	-34.3	38.29	-	-	74	-35.71	-	-	263	102	H
	* 1.25	35.44	ADR	29.1	-34.3	30.24	54	-23.76	-	-	-	-	263	102	H
5	* 7.604	33.17	PK-U	35.6	-23.5	45.27	-	-	74	-28.73	-	-	189	200	V
	* 7.607	22.19	ADR	35.6	-23.4	34.39	54	-19.61	-	-	-	-	189	200	V
6	* 11.344	31.64	PK-U	37.9	-19.3	50.24	-	-	74	-23.76	-	-	245	200	V
	* 11.343	19.97	ADR	37.9	-19.3	38.57	54	-15.43	-	-	-	-	245	200	V
2	2.4	47.75	PK-U	32.1	-32.2	47.65	-	-	-	-	68.2	-20.55	353	239	H
3	2.4	44.5	PK-U	32.1	-32.3	44.3	-	-	-	-	68.2	-23.9	233	264	V
4	8.966	32.78	PK-U	36	-22.8	45.96	-	-	-	-	68.2	-22.22	309	200	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

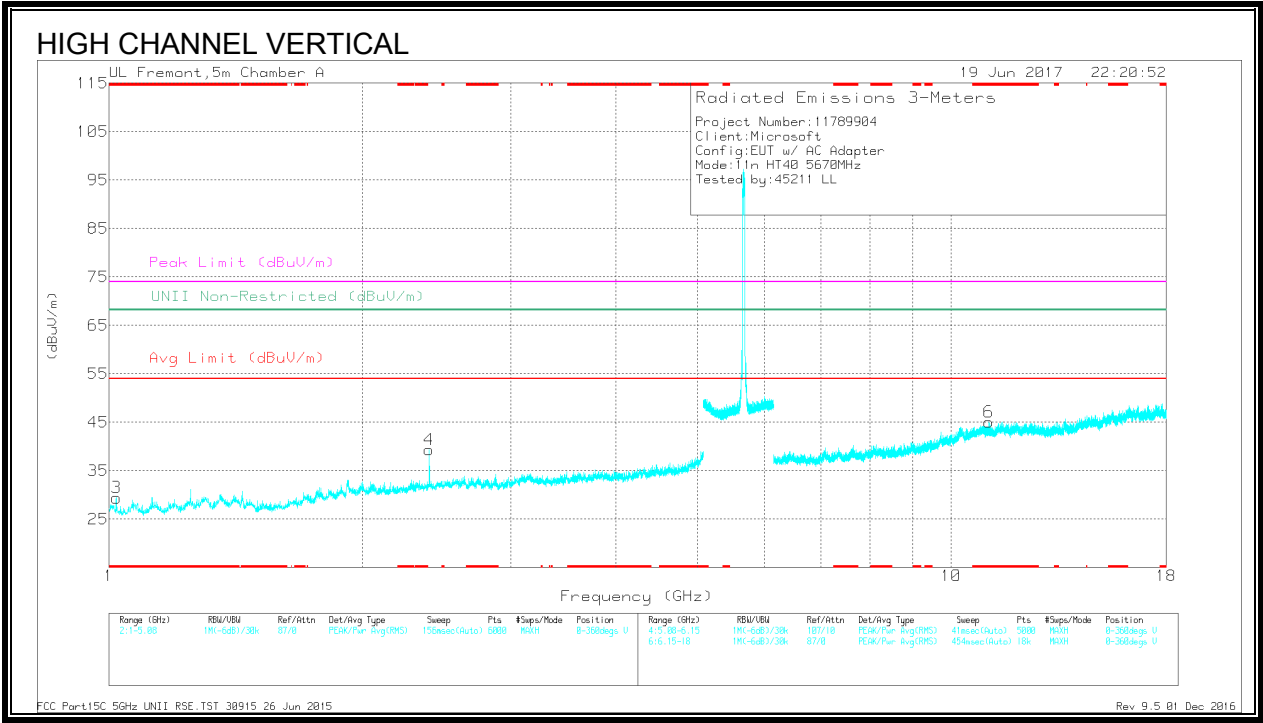
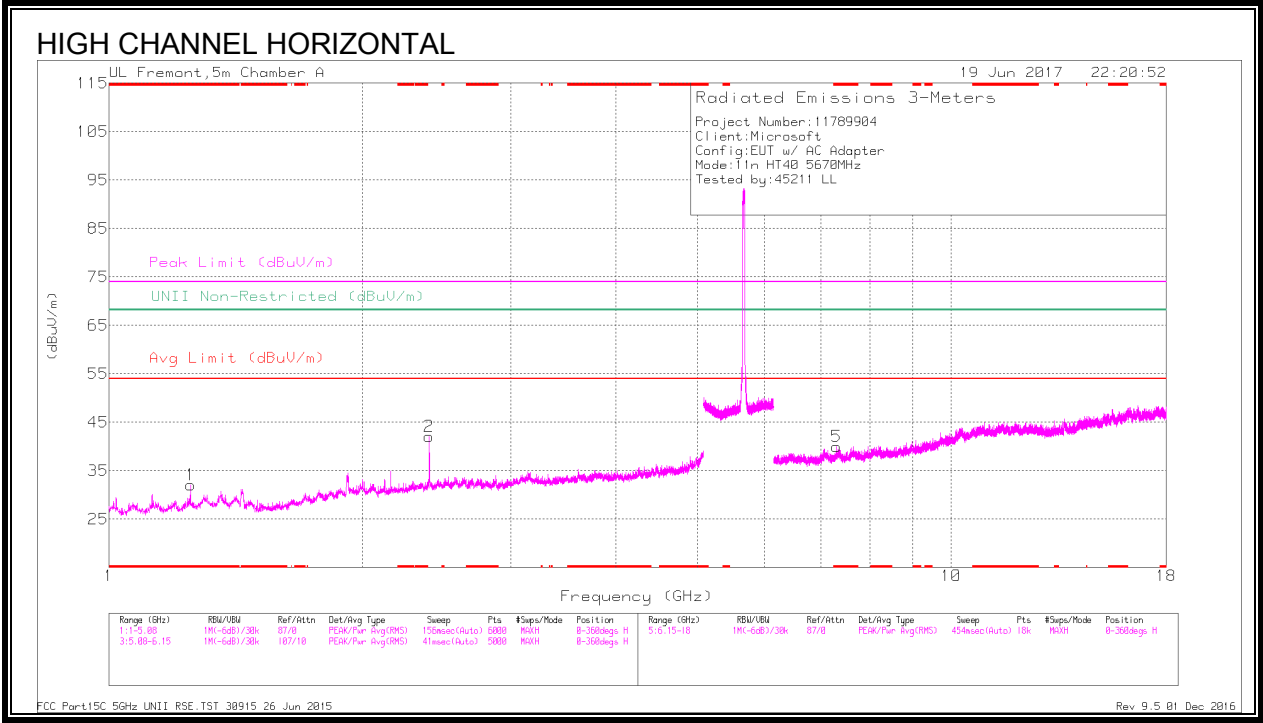


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.25	43.9	PK-U	29.1	-34.3	38.7	-	-	74	-35.3	-	-	259	117	H
	* 1.25	35.99	ADR	29.1	-34.3	30.79	54	-23.21	-	-	-	-	259	117	H
4	* 3.808	37.64	PK-U	33.1	-29.6	41.14	-	-	74	-32.86	-	-	145	377	V
	* 3.809	26.12	ADR	33.1	-29.6	29.62	54	-24.38	-	-	-	-	145	377	V
5	* 7.347	33.68	PK-U	35.5	-23.2	45.98	-	-	74	-28.02	-	-	92	102	H
	* 7.348	21.65	ADR	35.5	-23.2	33.95	54	-20.05	-	-	-	-	92	102	H
3	1.92	50.97	PK-U	31.3	-33.3	48.97	-	-	-	-	68.2	-19.23	77	264	V
2	2.4	53.51	PK-U	32.1	-32.2	53.41	-	-	-	-	68.2	-14.79	350	243	H
6	9.843	32.99	PK-U	36.9	-21.7	48.19	-	-	-	-	68.2	-20.01	201	102	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Fitr/Pad (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	* 1.25	43.72	PK-U	29.1	-34.3	38.52	-	-	74	-35.48	-	-	260	114	H
	* 1.25	35.9	ADR	29.1	-34.3	30.7	54	-23.3	-	-	-	-	260	114	H
3	* 1.02	42.56	PK-U	27.8	-34.2	36.16	-	-	74	-37.84	-	-	141	196	V
	* 1.02	34.31	ADR	27.8	-34.2	27.91	54	-26.09	-	-	-	-	141	196	V
5	* 7.307	33.32	PK-U	35.5	-23.9	44.92	-	-	74	-29.08	-	-	307	102	H
	* 7.307	21.75	ADR	35.5	-23.9	33.35	54	-20.65	-	-	-	-	307	102	H
6	* 11.079	32.68	PK-U	37.8	-19.7	50.78	-	-	74	-23.22	-	-	19	102	V
	* 11.079	20.55	ADR	37.8	-19.6	38.75	54	-15.25	-	-	-	-	19	102	V
2	2.4	47.6	PK-U	32.1	-32.2	47.5	-	-	-	-	68.2	-20.7	353	239	H
4	2.4	44.91	PK-U	32.1	-32.3	44.71	-	-	-	-	68.2	-23.49	274	198	V

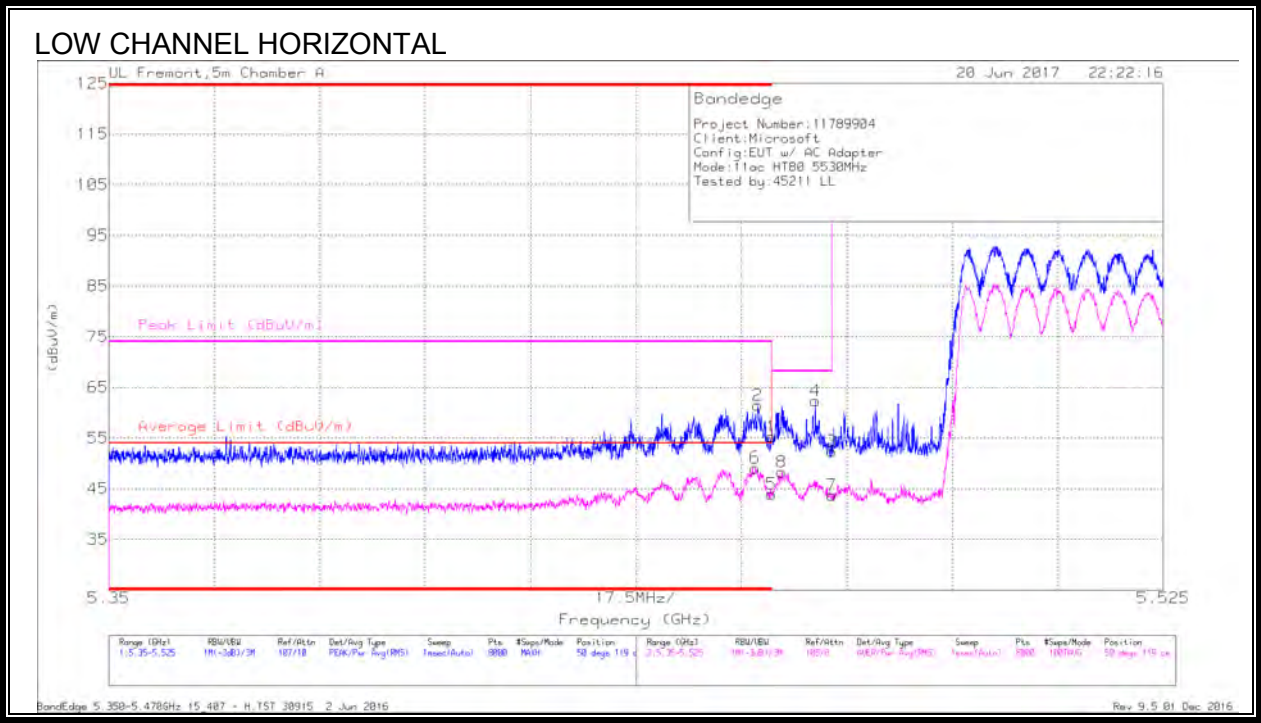
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.12.11ac VHT80 2TX MODE IN THE 5.6GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

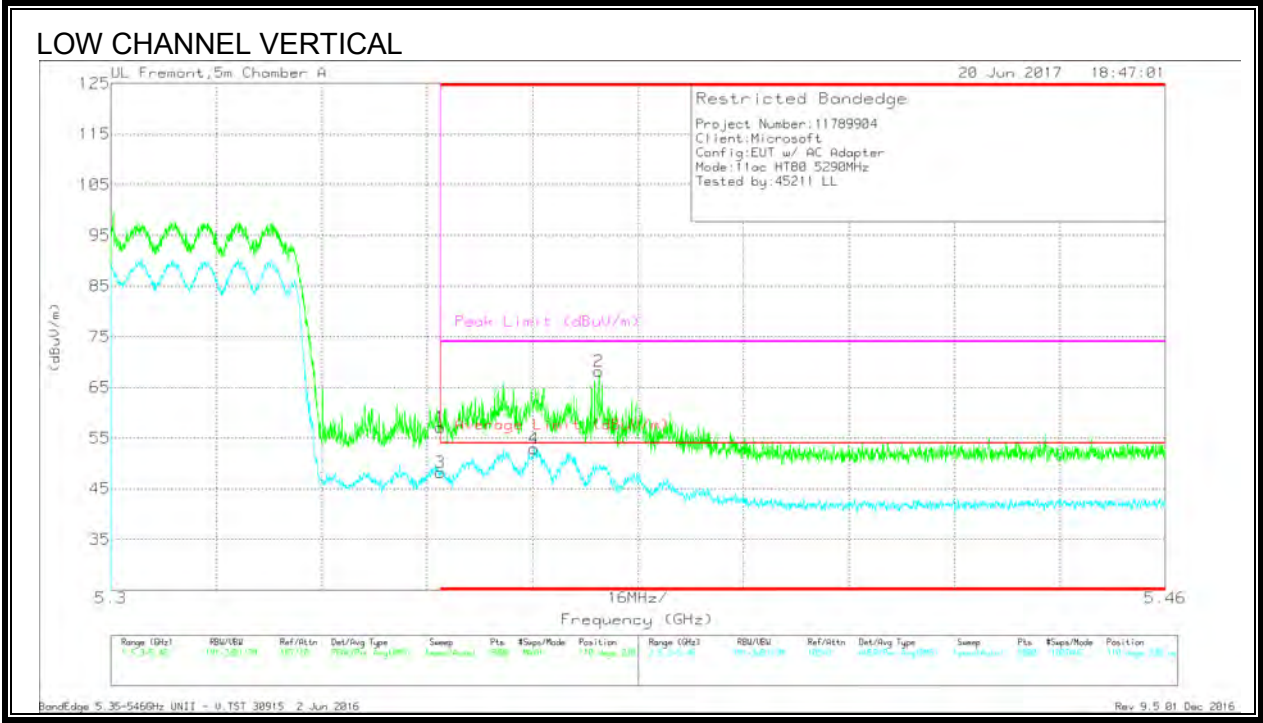


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Ftr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	39.77	Pk	34.4	-18.9	55.27	-	-	74	-18.73	50	119	H
2	* 5.458	45.97	Pk	34.4	-18.9	61.47	-	-	74	-12.53	50	119	H
5	* 5.46	28.5	RMS	34.4	-18.9	44	54	-10	-	-	50	119	H
6	* 5.457	33.51	RMS	34.4	-18.8	49.11	54	-4.89	-	-	50	119	H
8	5.462	32.84	RMS	34.4	-18.9	48.34	-	-	-	-	50	119	H
4	5.467	46.54	Pk	34.4	-18.6	62.34	-	-	68.2	-5.86	50	119	H
3	5.47	36.71	Pk	34.4	-18.7	52.41	-	-	68.2	-15.79	50	119	H
7	5.47	27.99	RMS	34.4	-18.7	43.69	-	-	-	-	50	119	H

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

Pk - Peak detector

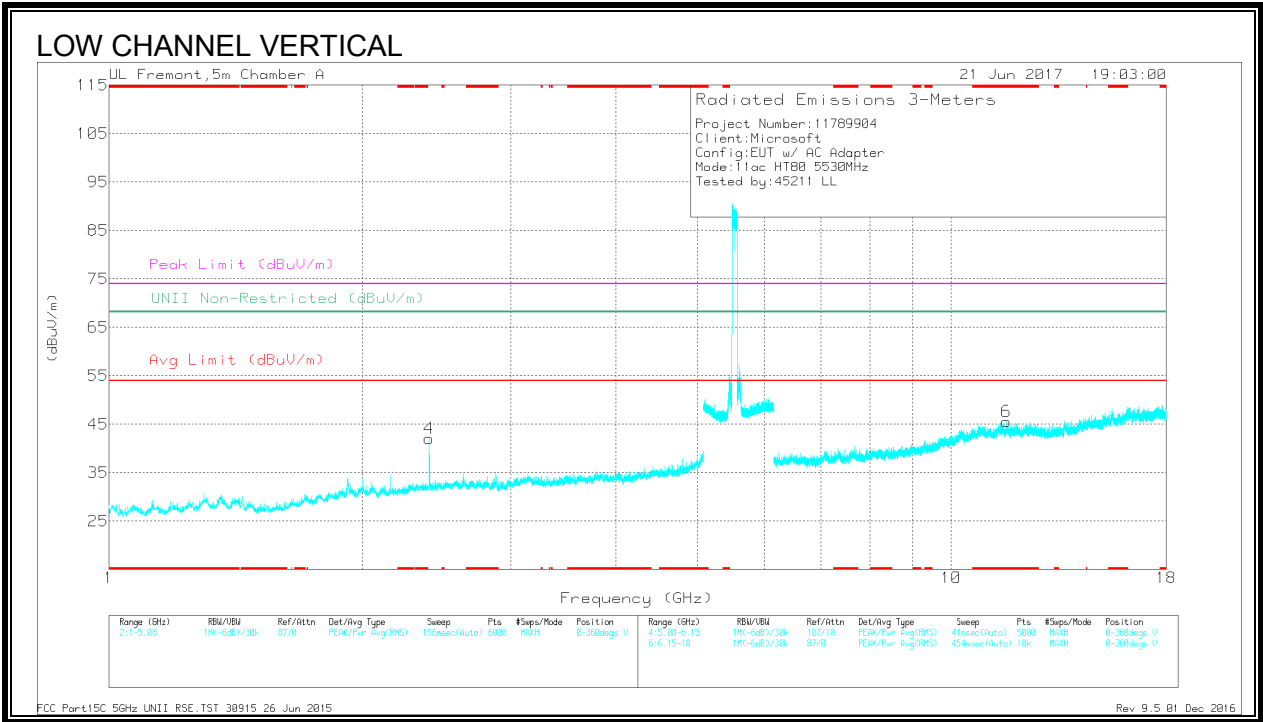
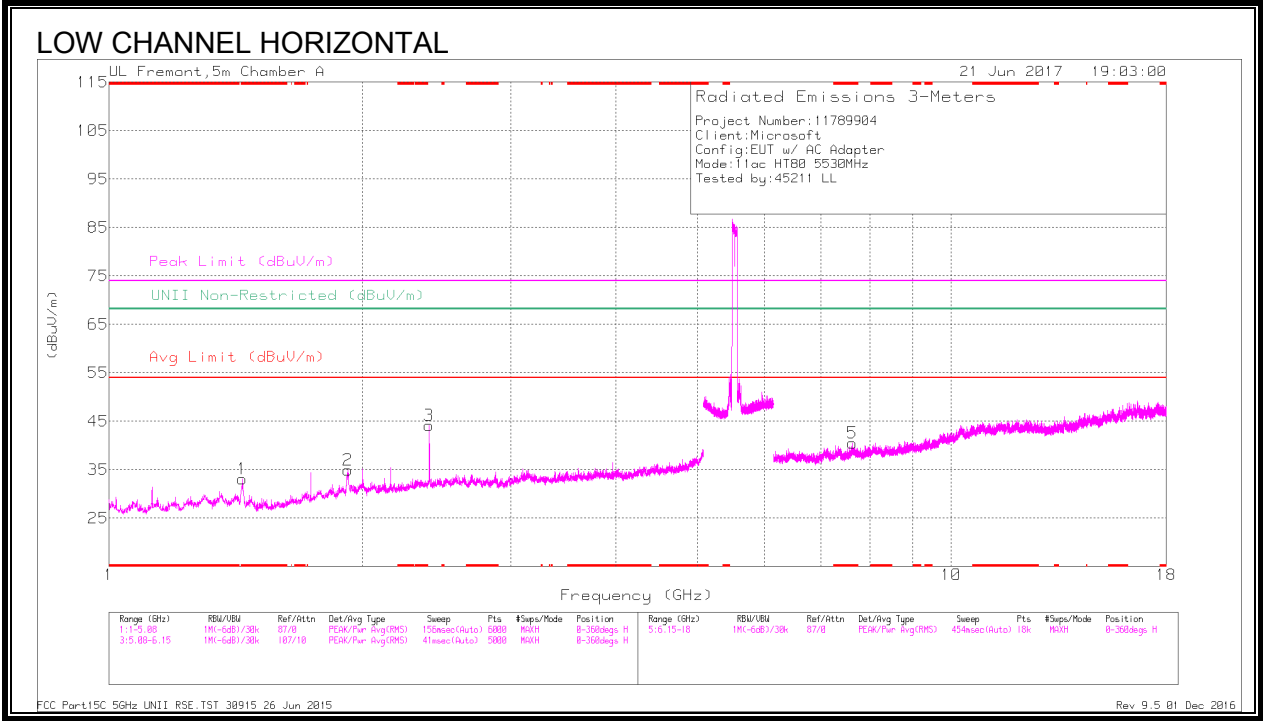
RMS - RMS detection



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	41.72	Pk	34.3	-18.9	57.12	-	-	74	-16.88	110	238	V
2	* 5.374	52.43	Pk	34.3	-18.6	68.13	-	-	74	-5.87	110	238	V
3	* 5.35	32.79	RMS	34.3	-18.9	48.19	54	-5.81	-	-	110	238	V
4	* 5.364	37.34	RMS	34.3	-18.7	52.94	54	-1.06	-	-	110	238	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

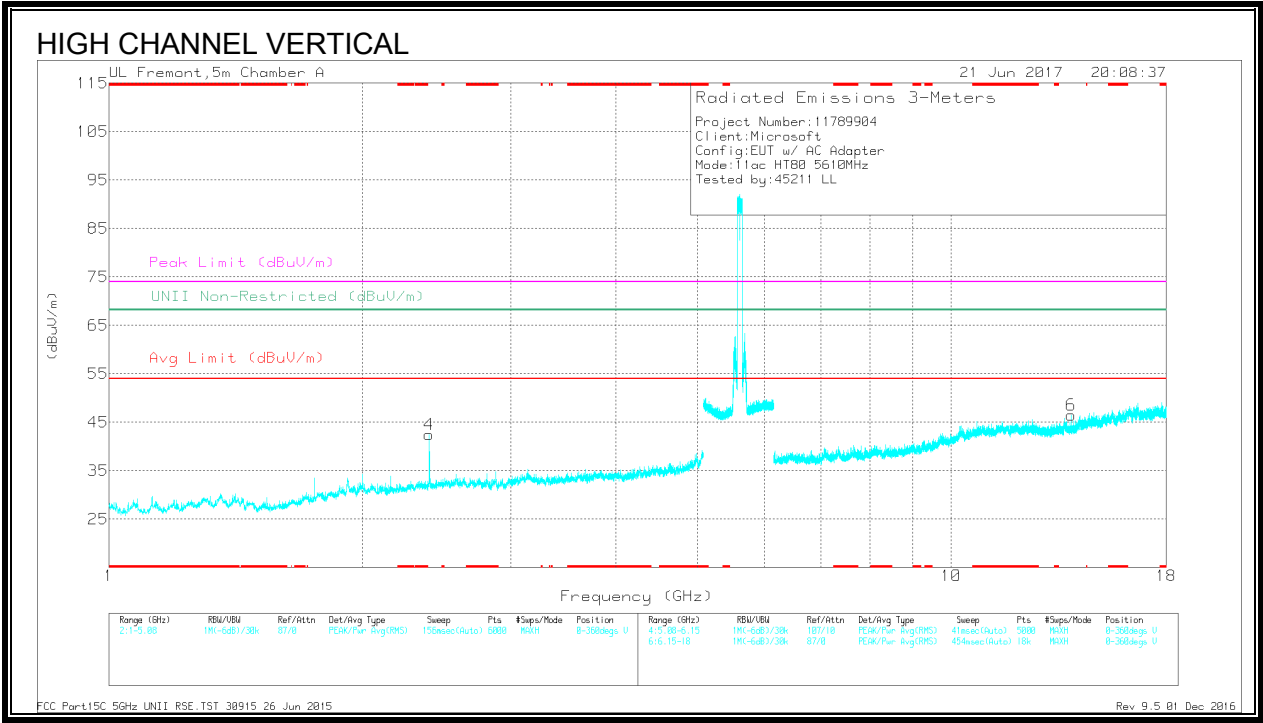
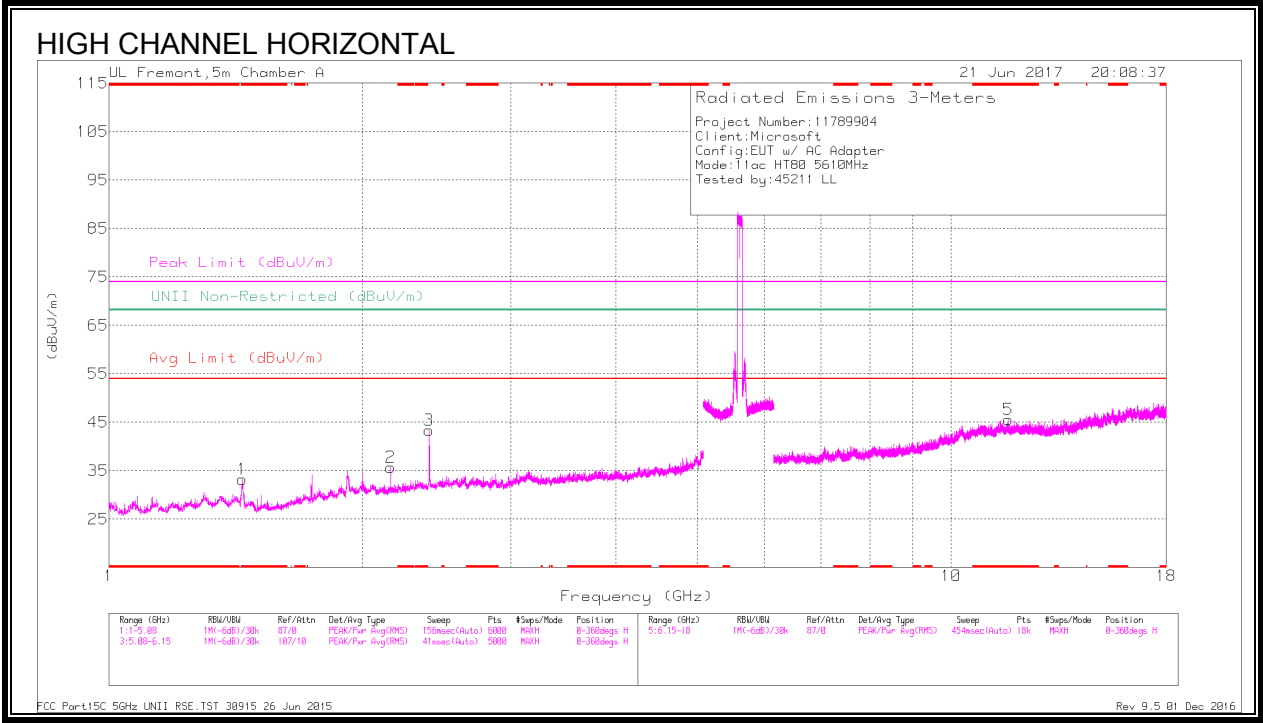


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.44	52.67	PK-U	28.8	-33.6	47.87	-	-	74	-26.13	-	-	178	108	H
	* 1.44	33.49	ADR	28.8	-33.6	28.69	54	-25.31	-	-	-	-	178	108	H
5	* 7.63	33.47	PK-U	35.6	-23.2	45.87	-	-	74	-28.13	-	-	273	153	H
	* 7.629	22.16	ADR	35.6	-23.2	34.56	54	-19.44	-	-	-	-	273	153	H
6	* 11.626	32.26	PK-U	38.2	-19.7	50.76	-	-	74	-23.24	-	-	336	200	V
	* 11.628	20.43	ADR	38.2	-19.6	39.03	54	-14.97	-	-	-	-	336	200	V
2	1.921	53.13	PK-U	31.3	-33.3	51.13	-	-	-	-	68.2	-17.07	180	227	H
3	2.4	50.57	PK-U	32.1	-32.2	50.47	-	-	-	-	68.2	-17.73	163	210	H
4	2.4	48.24	PK-U	32.1	-32.3	48.04	-	-	-	-	68.2	-20.16	162	102	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Fitr/Pad (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	* 1.44	52.51	PK-U	28.8	-33.5	47.81	-	-	74	-26.19	-	-	177	113	H
	* 1.44	33.34	ADR	28.8	-33.6	28.54	54	-25.46	-	-	-	-	177	113	H
5	* 11.686	31.59	PK-U	38.3	-19.7	50.19	-	-	74	-23.81	-	-	170	103	H
	* 11.687	20.34	ADR	38.3	-19.7	38.94	54	-15.06	-	-	-	-	170	103	H
2	2.16	42.48	PK-U	31.4	-32.8	41.08	-	-	-	-	68.2	-27.12	168	200	H
3	2.4	50.27	PK-U	32.1	-32.3	50.07	-	-	-	-	68.2	-18.13	163	210	H
4	2.4	47.23	PK-U	32.1	-32.3	47.03	-	-	-	-	68.2	-21.17	162	103	V
6	13.876	32.92	PK-U	38.6	-21	50.52	-	-	-	-	68.2	-17.68	219	103	V

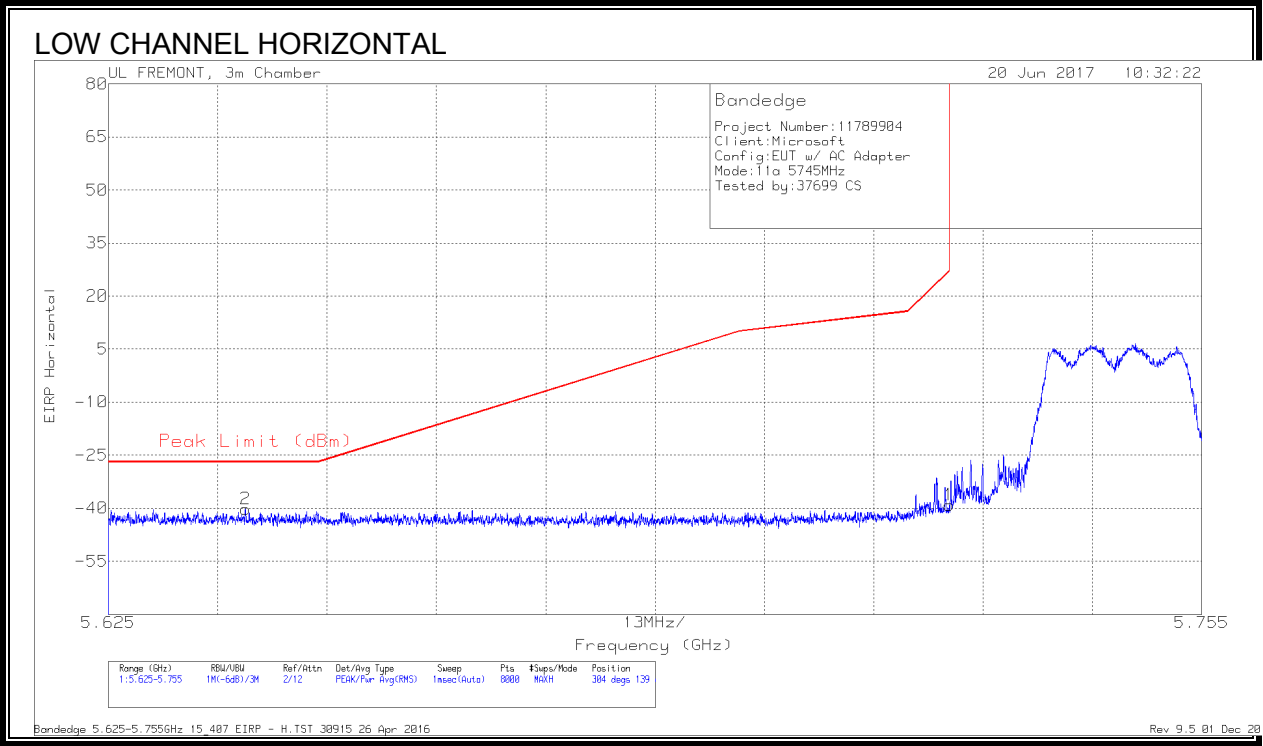
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

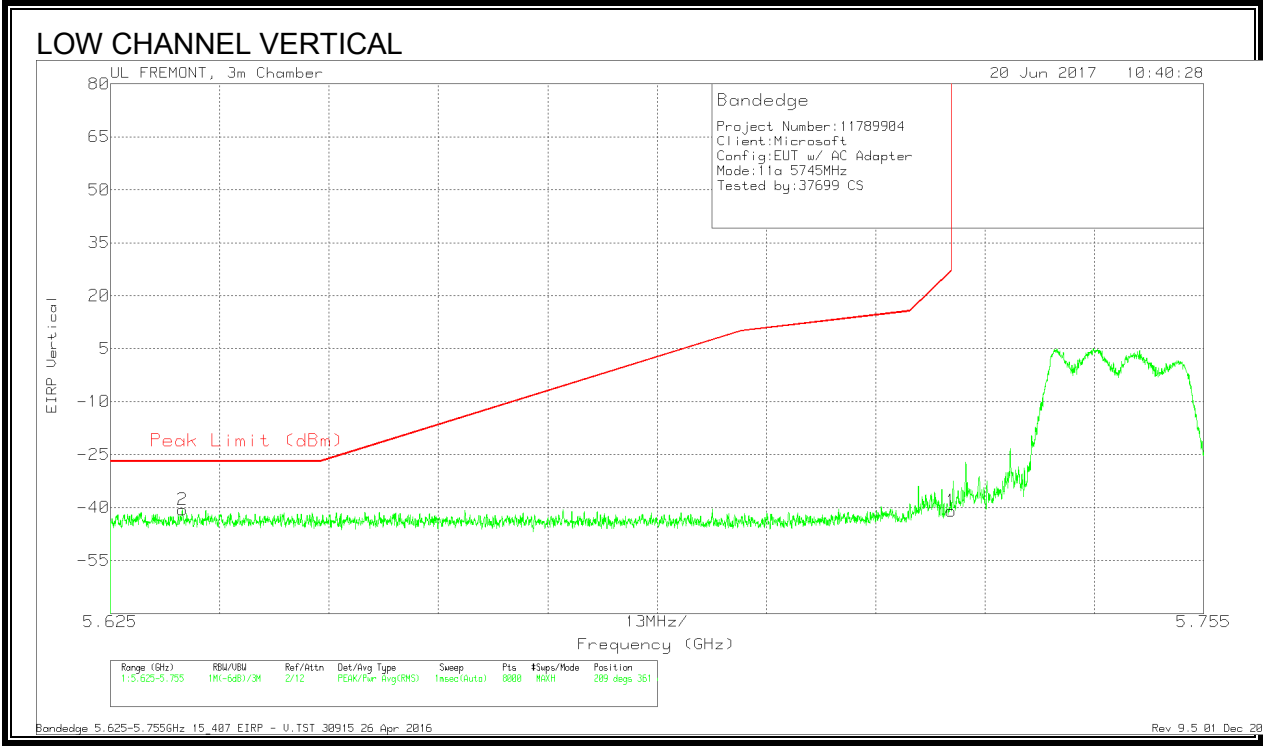
10.1.13.11a 2TX MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.641	-66.83	Pk	34.6	-19.8	11.8	-40.23	-27	-13.23	304	139	H
1	5.725	-65.81	PK	34.7	-19.8	11.8	-39.11	27	-66.11	304	139	H

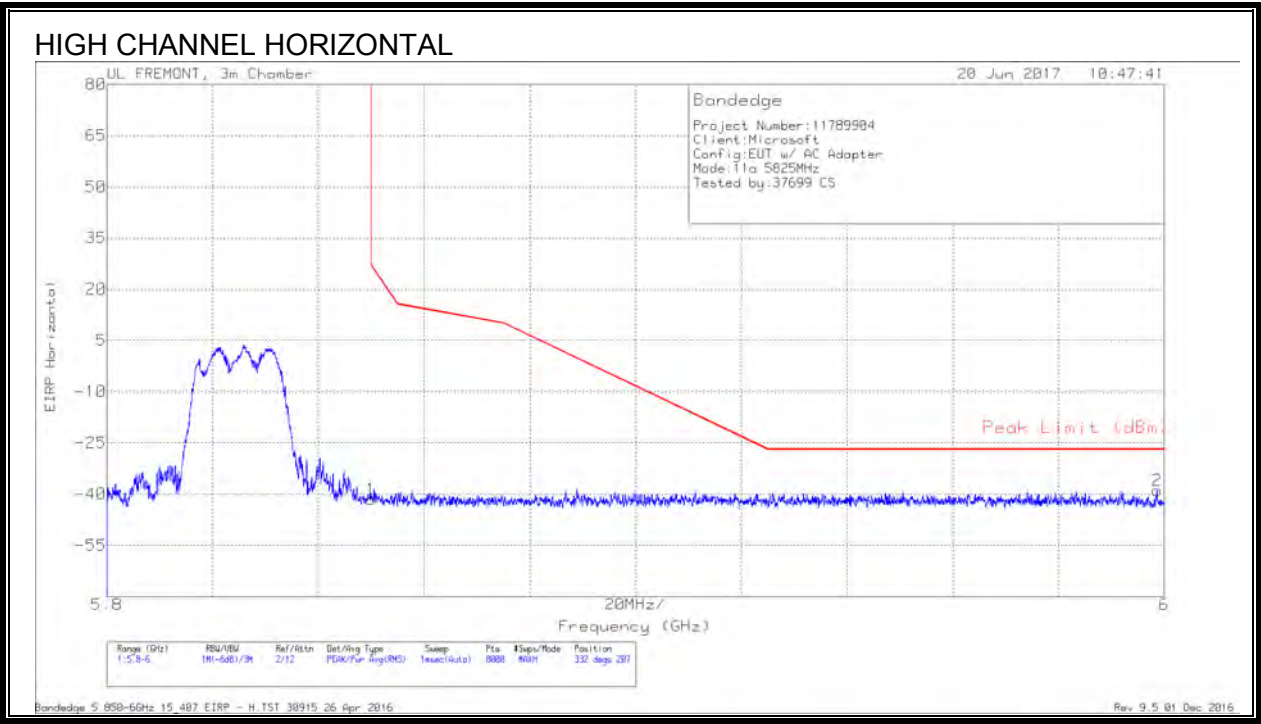
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.634	-67.18	Pk	34.6	-19.9	11.8	-40.68	-27	-13.68	209	361	V
1	5.725	-67.61	Pk	34.7	-19.8	11.8	-40.91	27	-67.91	209	361	V

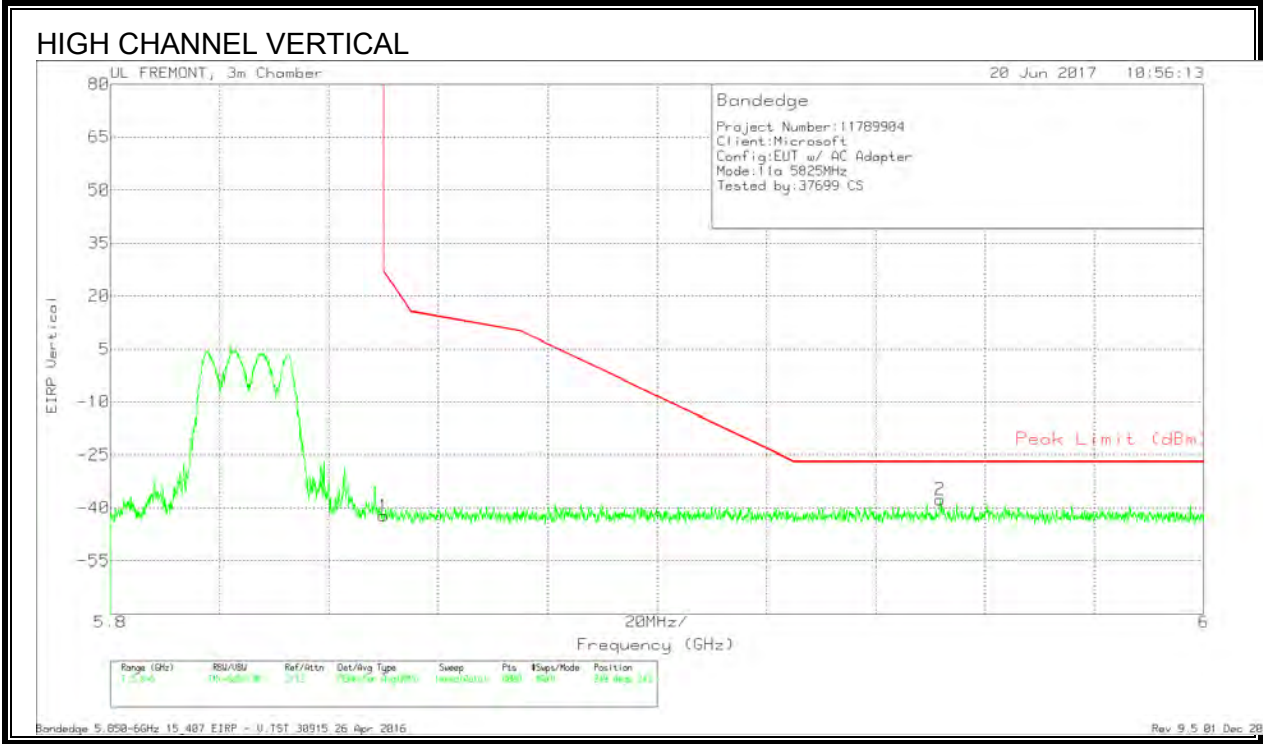
Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-68.61	Pk	34.8	-19.5	11.8	-41.51	26.99	-68.5	332	207	H
2	5.999	-66.67	Pk	35.1	-19.2	11.8	-38.97	-27	-11.97	332	207	H

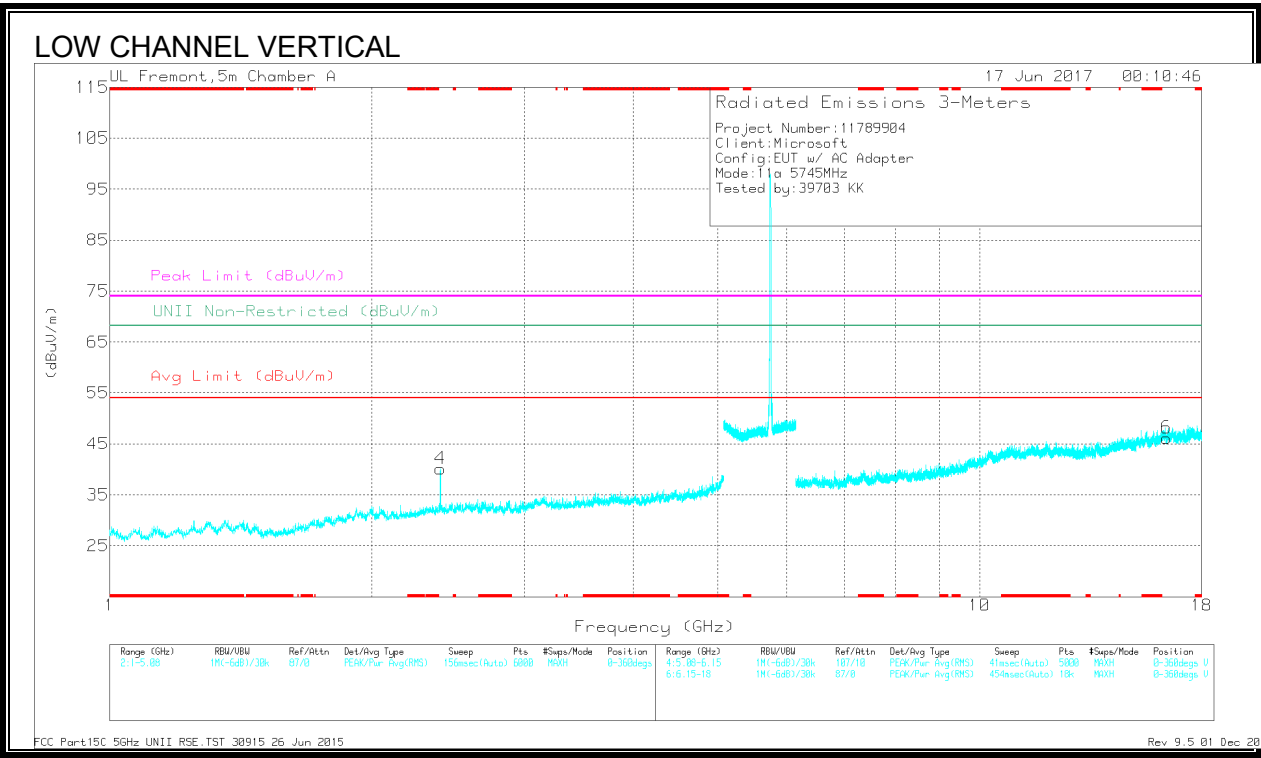
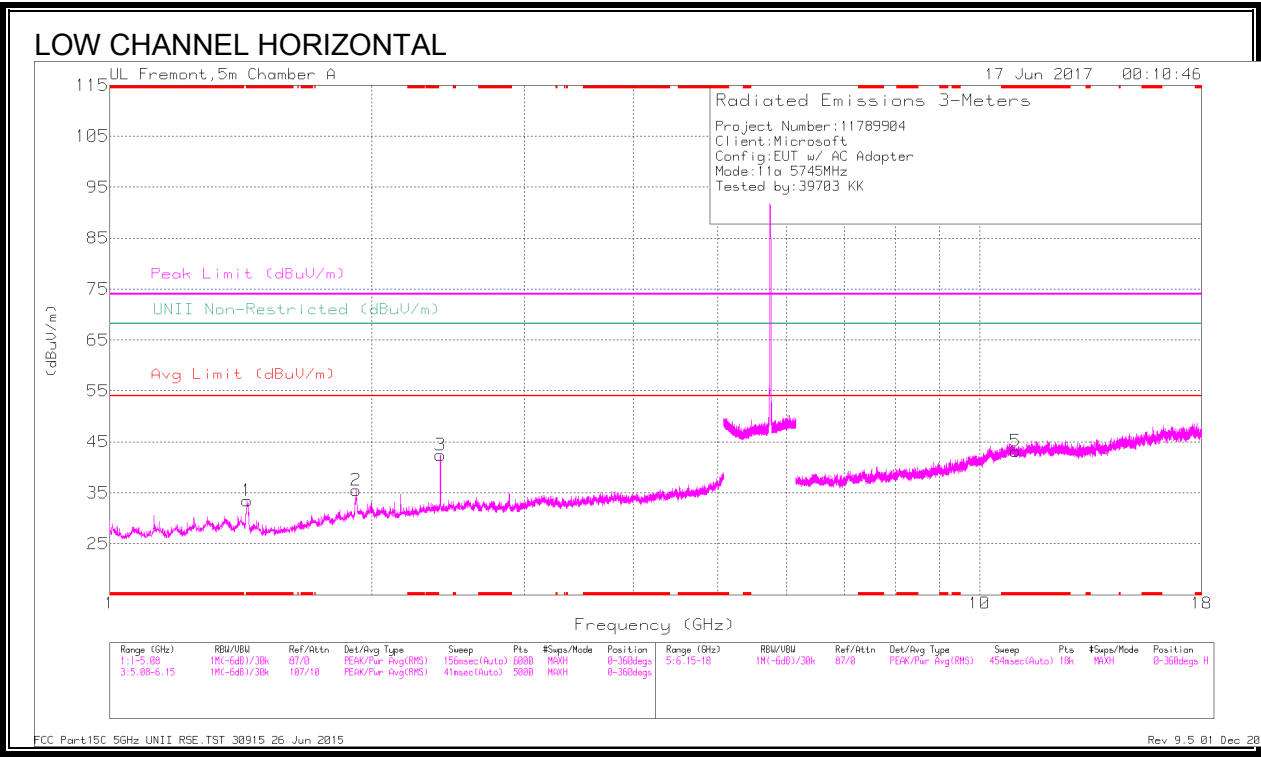
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-69.37	Pk	34.8	-19.5	11.8	-42.27	26.99	-69.26	249	343	V
2	5.952	-65.21	Pk	35	-19.2	11.8	-37.61	-27	-10.61	249	343	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

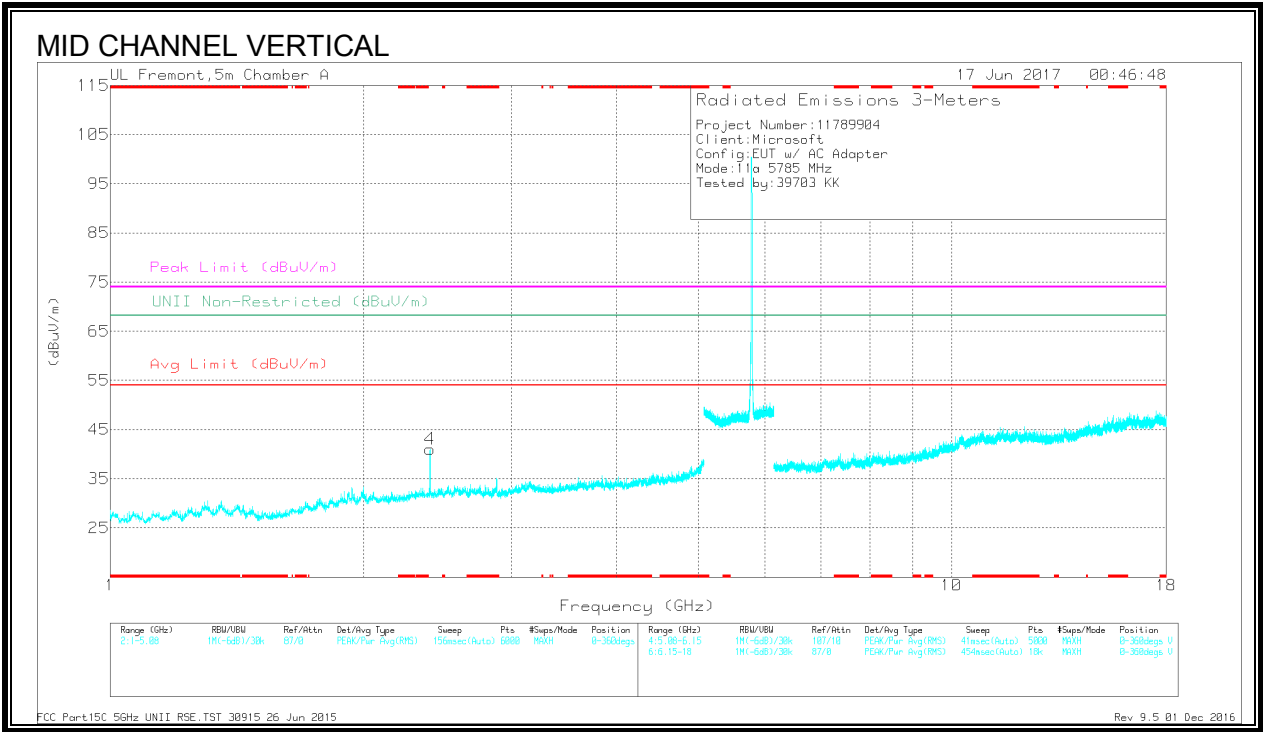
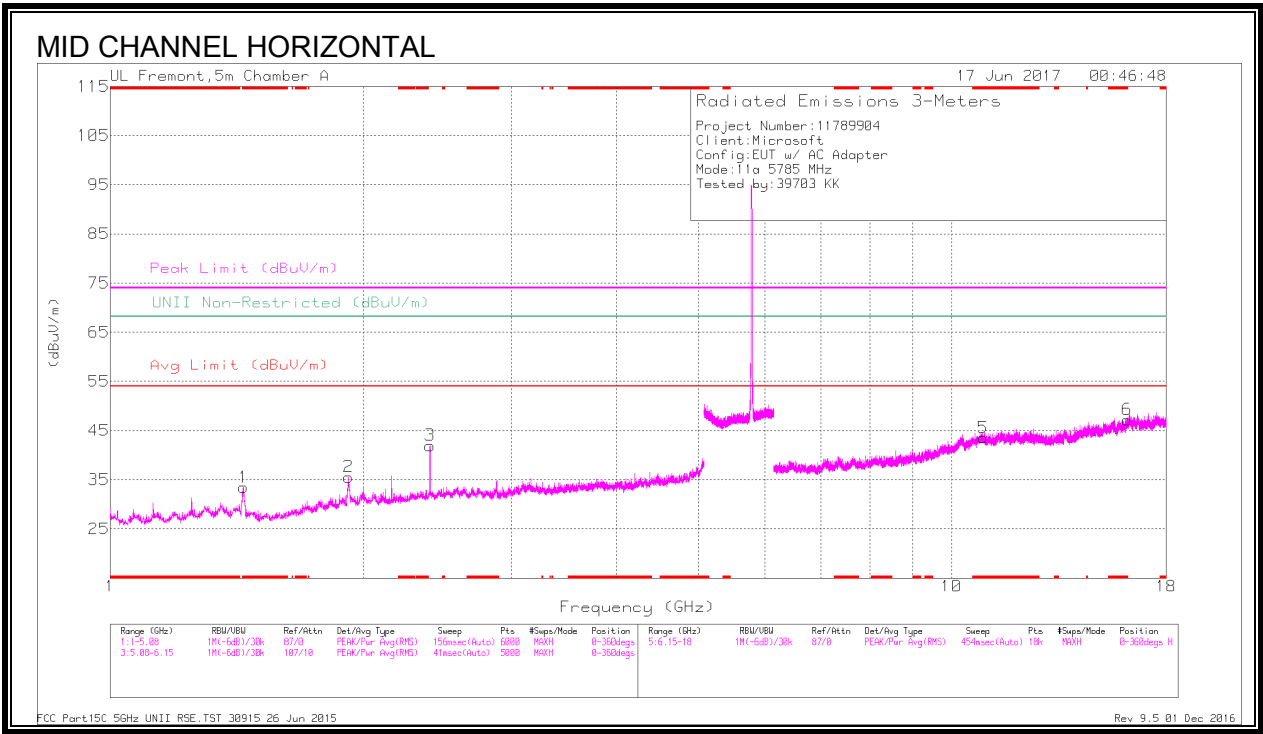


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Dege)	Height (cm)	Polarity
1	* 1.44	53.21	PK-U	28.8	-33.6	48.41	-	-	74	-25.59	-	-	216	202	H
	* 1.44	33.82	ADR	28.8	-33.6	29.02	54	-24.98	-	-	-	-	216	202	H
5	* 10.998	32.22	PK-U	37.8	-20.2	49.82	-	-	74	-24.18	-	-	171	124	H
	* 10.997	21.36	ADR	37.8	-20.2	38.96	54	-15.04	-	-	-	-	171	124	H
3	2.4	48.12	PK-U	32.1	-32.2	48.02	-	-	-	-	68.2	-20.18	170	118	H
4	2.4	45.83	PK-U	32.1	-32.3	45.63	-	-	-	-	68.2	-22.57	171	124	V
6	16.394	32.78	PK-U	41.5	-21.2	53.08	-	-	-	-	68.2	-15.12	171	124	V
2	1.92	39.27	PK-U	31.3	-33.3	37.27	-	-	-	-	68.2	-30.93	145	113	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

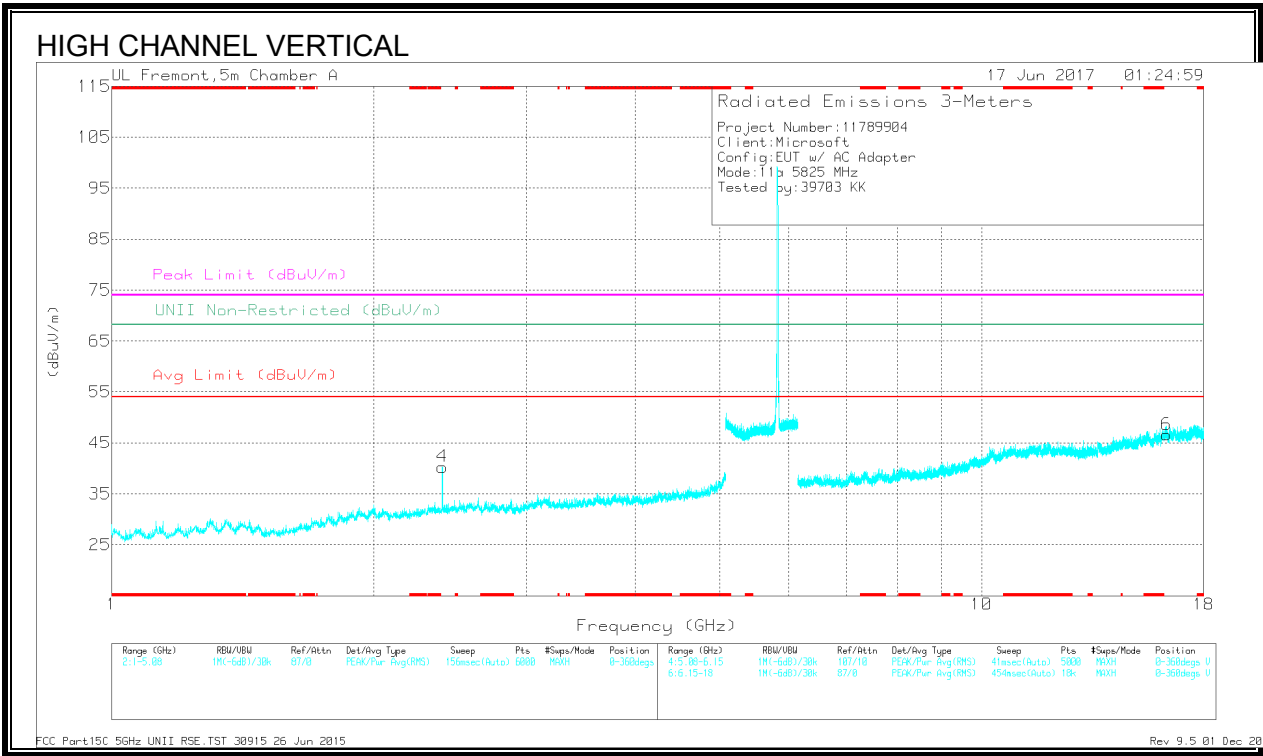
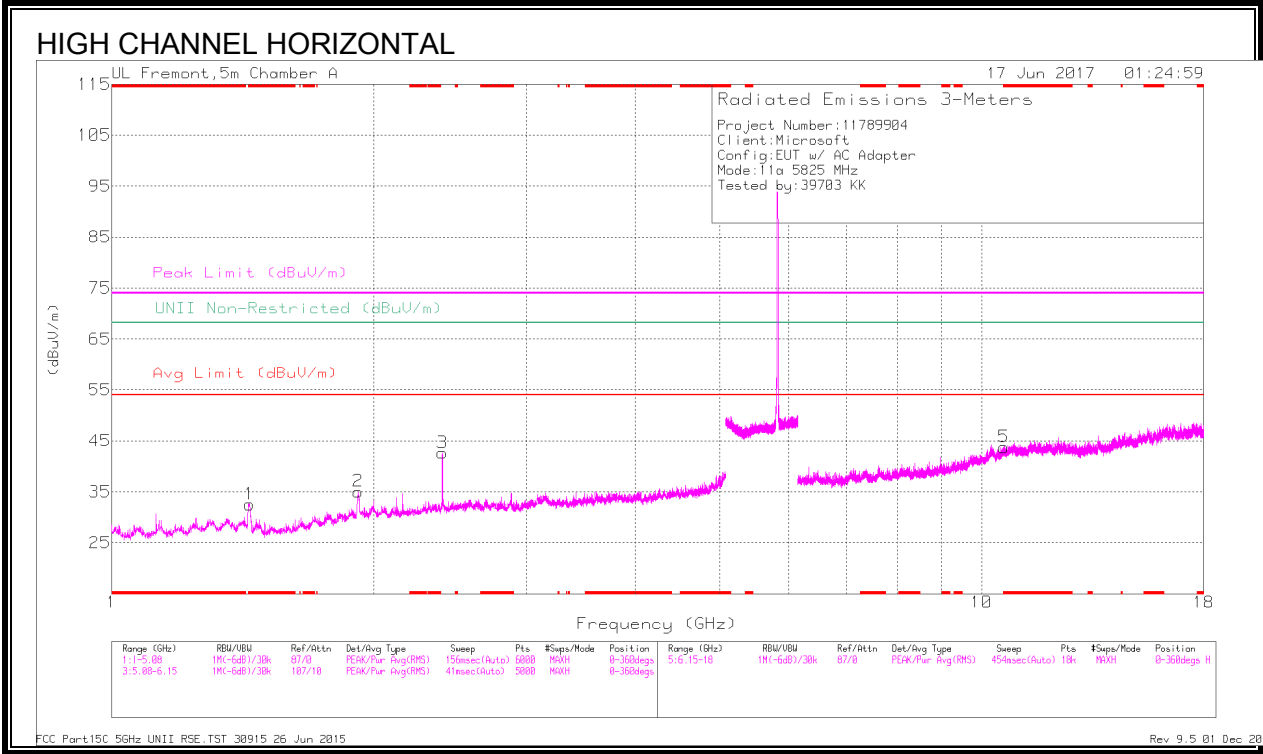


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.44	52.39	PK-U	28.8	-33.6	47.59	-	-	74	-26.41	-	-	215	190	H
	* 1.44	33.09	ADR	28.8	-33.6	28.29	54	-25.71	-	-	-	-	215	190	H
5	* 10.904	31.76	PK-U	37.9	-19.4	50.26	-	-	74	-23.74	-	-	170	101	H
	* 10.903	21	ADR	37.9	-19.4	39.5	54	-14.5	-	-	-	-	170	101	H
6	* 16.175	32.7	PK-U	41.1	-19.8	54	-	-	74	-20	-	-	170	101	H
	* 16.175	21.59	ADR	41.1	-19.8	42.89	54	-11.11	-	-	-	-	170	101	H
2	1.921	52.34	PK-U	31.3	-33.3	50.34	-	-	-	-	68.2	-17.86	171	146	H
3	2.4	48.82	PK-U	32.1	-32.2	48.72	-	-	-	-	68.2	-19.48	170	118	H
4	2.4	45.63	PK-U	32.1	-32.2	45.53	-	-	-	-	68.2	-22.67	170	101	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Filt/Pad (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 (Dege)	Height (cm)	Polarity
1	* 1.44	52.98	PK-U	28.8	-33.6	48.18	-	-	74	-25.82	-	-	217	193	H
	* 1.44	33.6	ADR	28.8	-33.6	28.8	54	-25.2	-	-	-	-	217	193	H
5	* 10.61	32.31	PK-U	37.8	-20.4	49.71	-	-	74	-24.29	-	-	170	102	H
	* 10.611	21.34	ADR	37.8	-20.4	38.74	54	-15.26	-	-	-	-	170	102	H
2	1.921	52.17	PK-U	31.3	-33.3	50.17	-	-	-	-	68.2	-18.03	164	173	H
3	2.4	47.88	PK-U	32.1	-32.3	47.68	-	-	-	-	68.2	-20.52	168	117	H
4	2.4	46.69	PK-U	32.1	-32.3	46.49	-	-	-	-	68.2	-21.71	170	102	V
6	16.315	33.65	PK-U	41.4	-20.4	54.65	-	-	-	-	68.2	-13.55	170	102	V

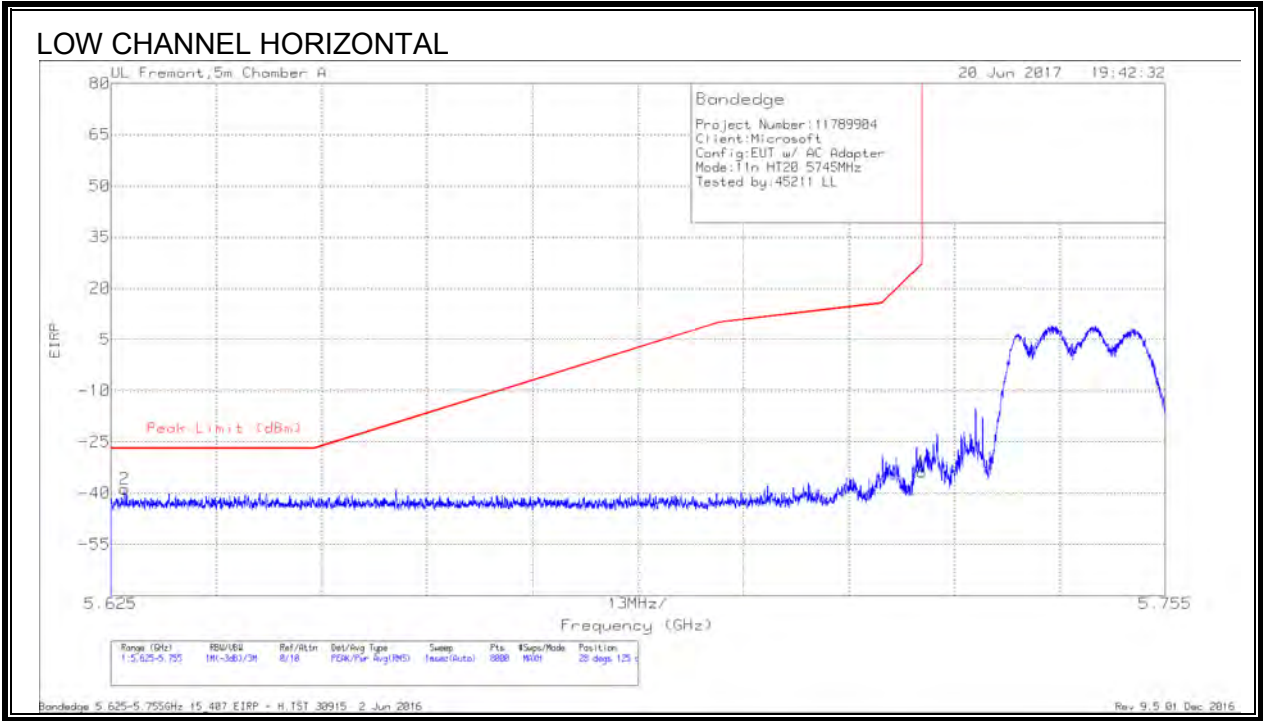
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

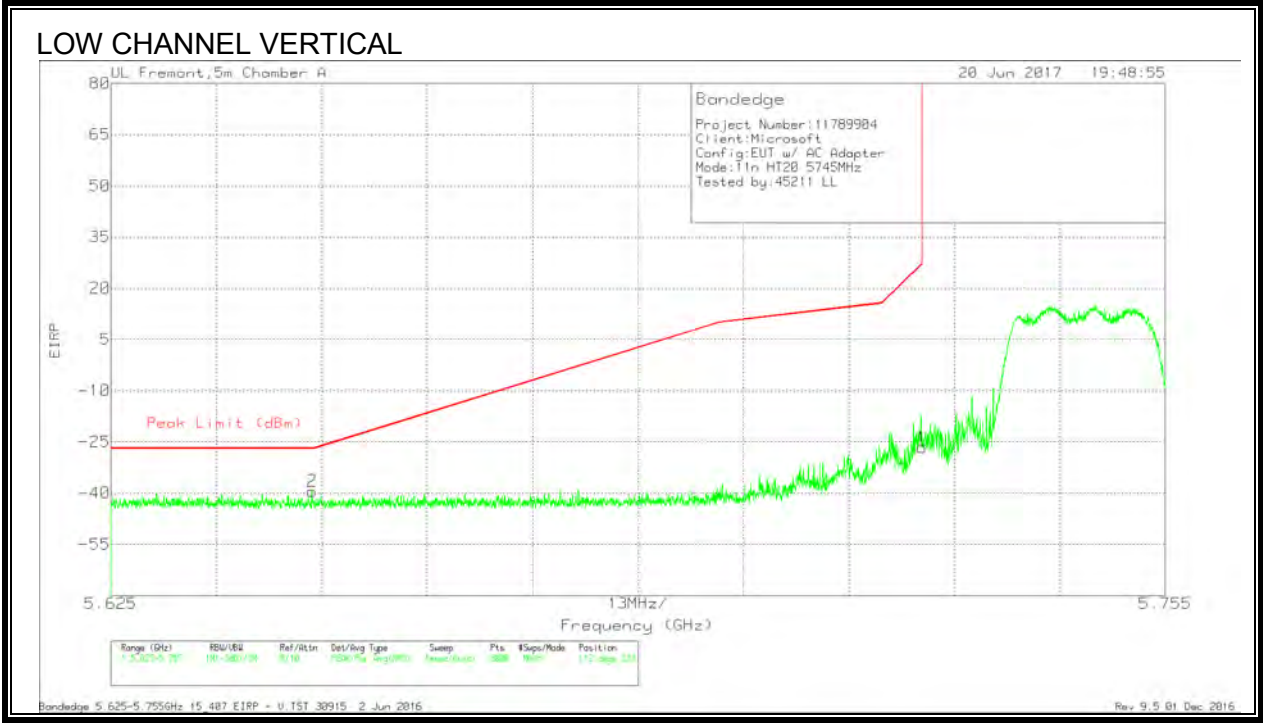
10.1.14.11n HT20 2TX MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cb/Fitr/P ad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.627	-66.4	PK	34.7	-18.9	11.8	-38.8	-27	-11.8	28	125	H
1	5.725	-61.41	PK	34.8	-19	11.8	-33.81	27	-60.81	28	125	H

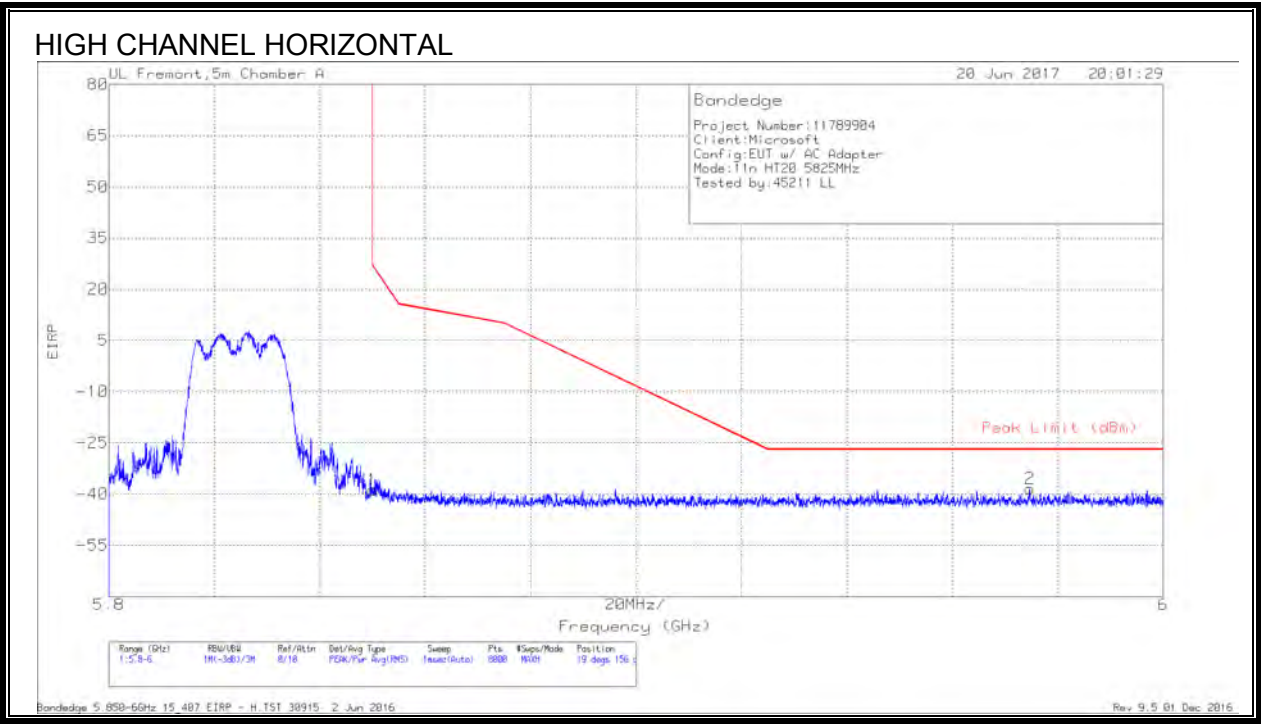
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.65	-66.92	Pk	34.7	-19	11.8	-39.42	-27	-12.42	112	233	V
1	5.725	-54.18	Pk	34.8	-19	11.8	-26.58	27	-53.58	112	233	V

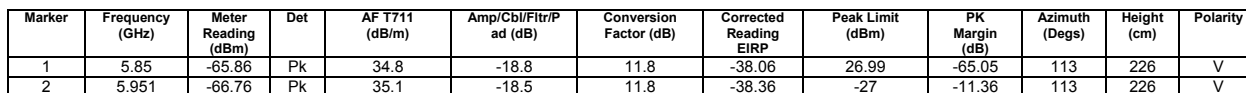
Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)



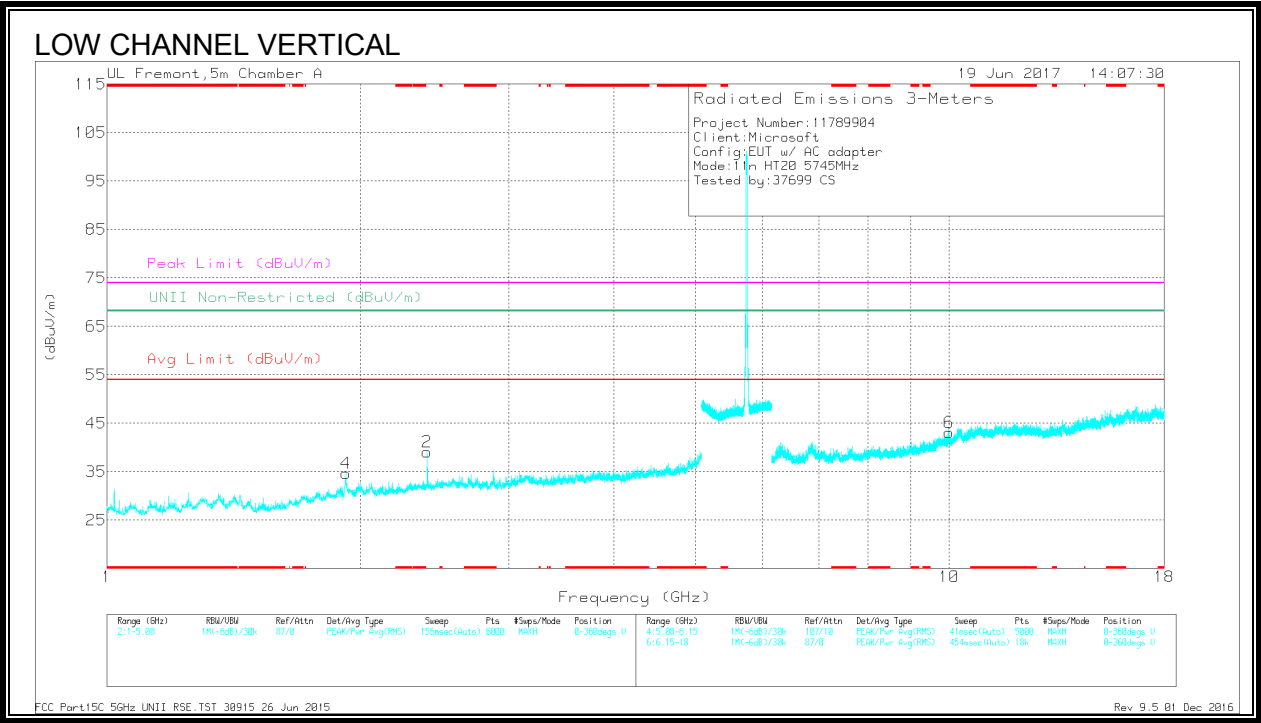
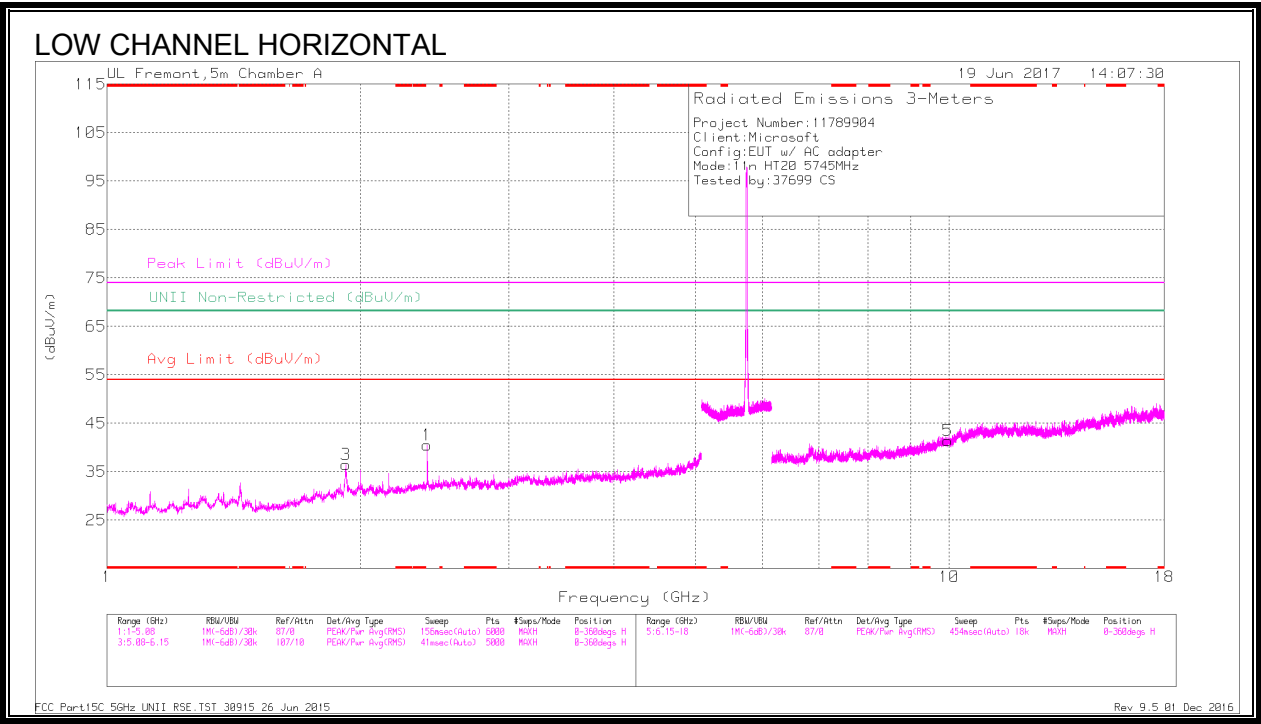
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/Filtn/P ad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-66.63	Pk	34.8	-18.8	11.8	-38.83	26.99	-65.82	19	156	H
2	5.975	-66.9	Pk	35.2	-18.5	11.8	-38.4	-27	-11.4	19	156	H

Pk - Peak detector



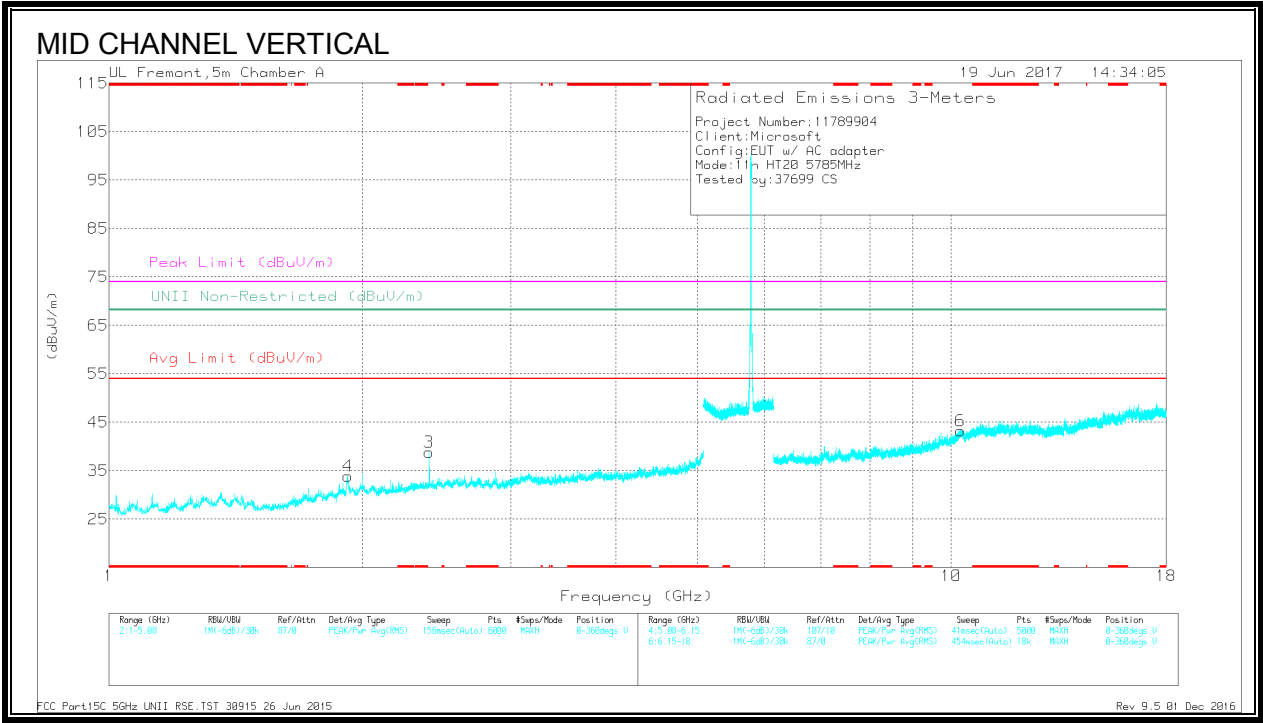
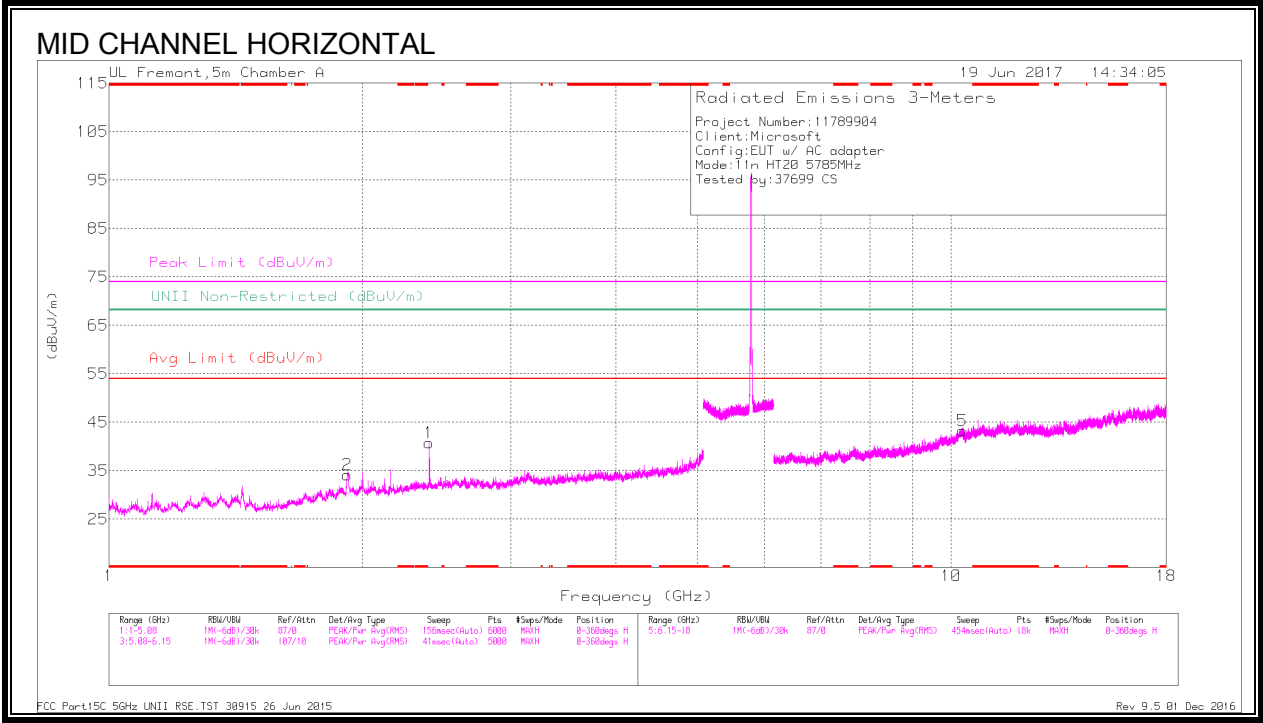
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HARMONICS AND SPURIOUS EMISSIONS



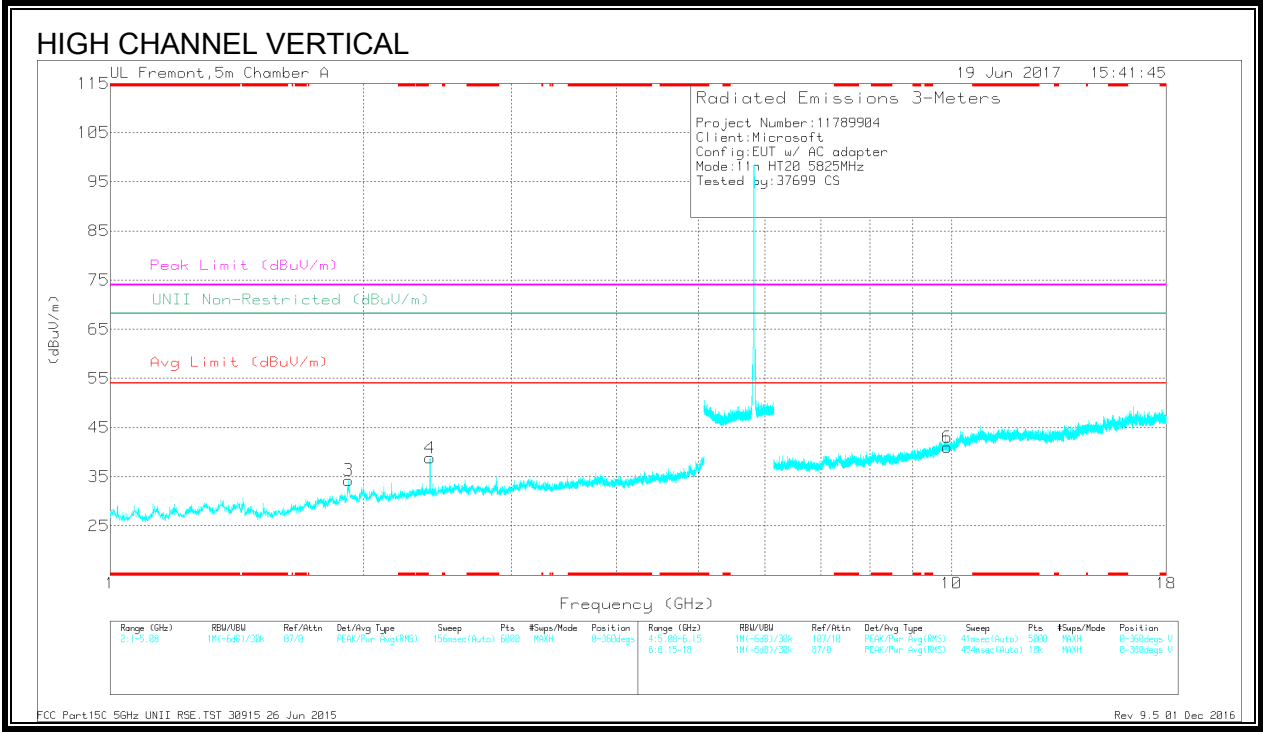
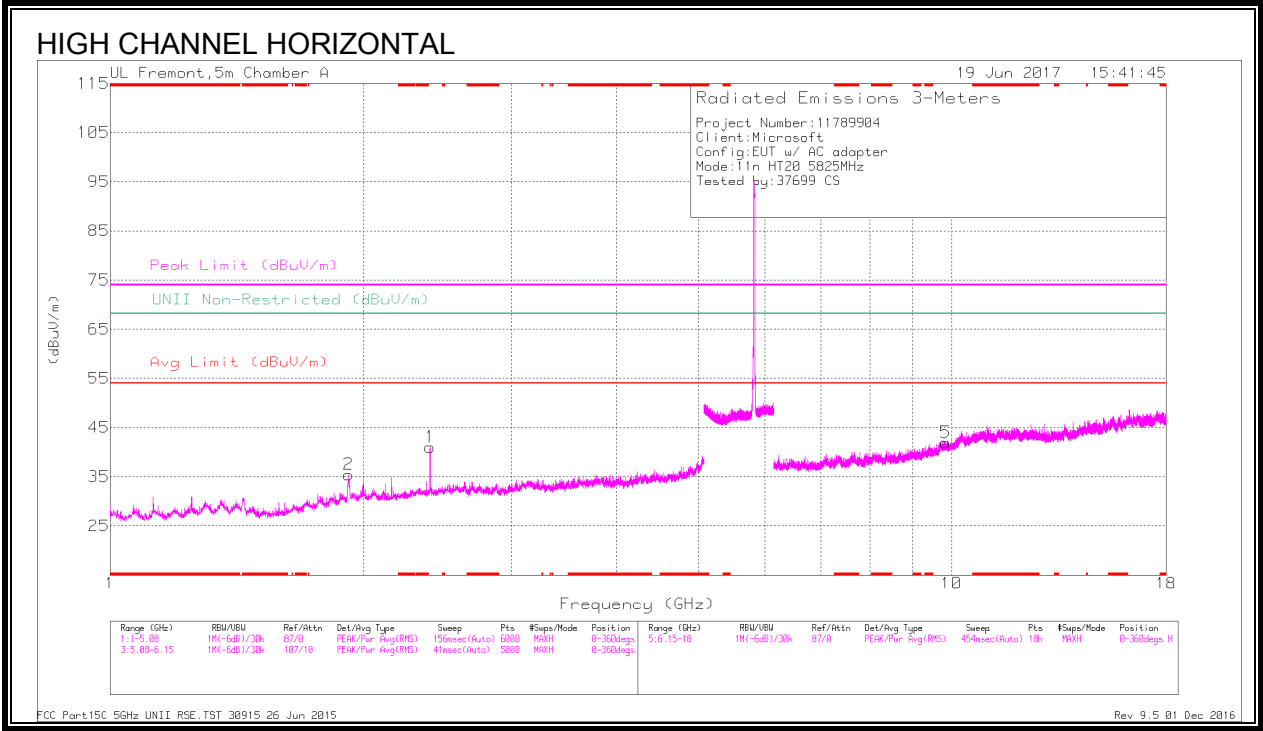
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	1.921	51	PK-U	31.3	-33.3	49	-	-	-	-	68.2	-19.2	353	281	H
4	1.921	48.79	PK-U	31.3	-33.3	46.79	-	-	-	-	68.2	-21.41	260	102	V
1	2.4	48.83	PK-U	32.1	-32.2	48.73	-	-	-	-	68.2	-19.47	135	219	H
2	2.4	45.09	PK-U	32.1	-32.3	44.89	-	-	-	-	68.2	-23.31	268	266	V
5	9.965	32	PK-U	36.9	-21.3	47.6	-	-	-	-	68.2	-20.6	220	110	H
6	9.994	32.51	PK-U	36.9	-21.1	48.31	-	-	-	-	68.2	-19.89	319	104	V

PK-U - U-NII: Maximum Peak



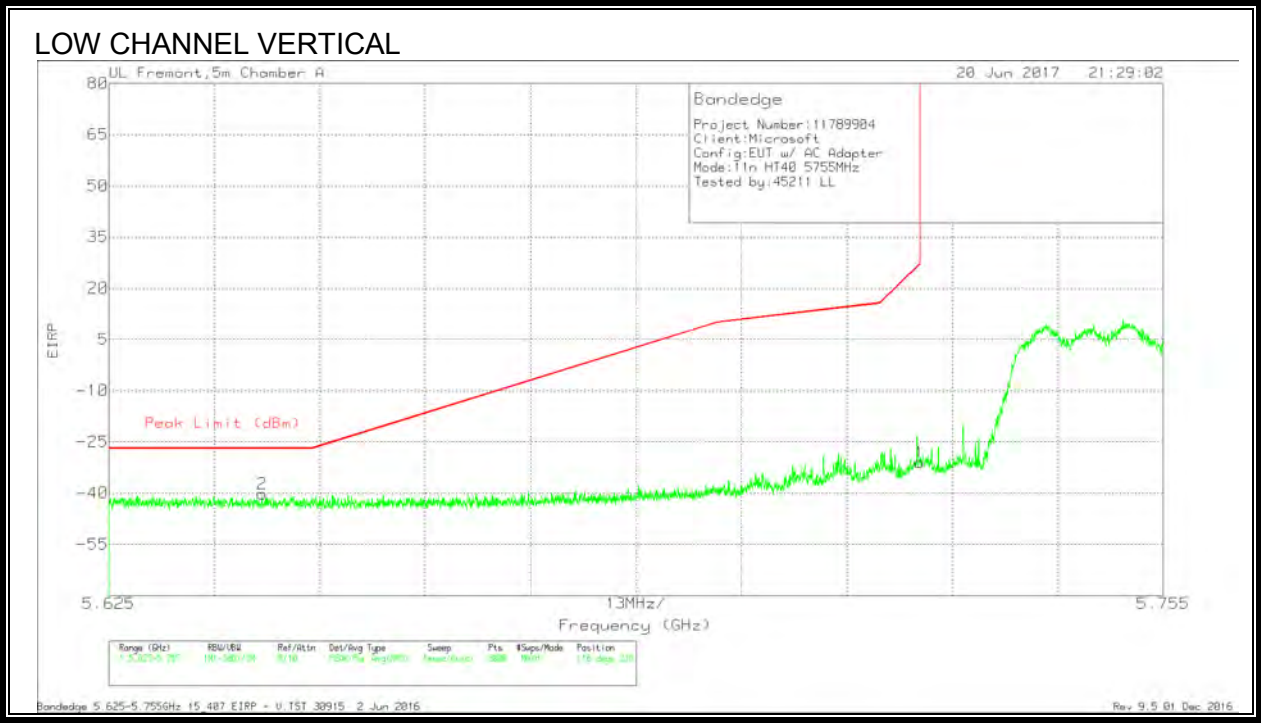
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Dege)	Height (cm)	Polarity
2	1.919	51.1	PK-U	31.3	-33.3	49.1	-	-	-	-	68.2	-19.1	357	102	H
4	1.919	49.73	PK-U	31.3	-33.3	47.73	-	-	-	-	68.2	-20.47	214	103	V
1	2.4	45.95	PK-U	32.1	-32.3	45.75	-	-	-	-	68.2	-22.45	305	116	H
3	2.4	43.63	PK-U	32.1	-32.3	43.43	-	-	-	-	68.2	-24.77	111	104	V
6	10.259	32.14	PK-U	37.2	-19.7	49.64	-	-	-	-	68.2	-18.56	128	256	V
5	10.304	32.36	PK-U	37.3	-19.7	49.96	-	-	-	-	68.2	-18.24	62	115	H

PK-U - U-NII: Maximum Peak



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Filtr/Pad (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	1.919	51.38	PK-U	31.3	-33.3	49.38	-	-	-	-	68.2	-18.82	72	260	V
3	1.921	52.3	PK-U	31.3	-33.3	50.3	-	-	-	-	68.2	-17.9	350	231	H
1	2.4	47.88	PK-U	32.1	-32.3	47.88	-	-	-	-	68.2	-20.52	135	224	H
4	2.4	45.19	PK-U	32.1	-32.3	44.99	-	-	-	-	68.2	-23.21	271	228	V
5	9.844	33.1	PK-U	36.9	-21.6	48.4	-	-	-	-	68.2	-19.8	317	165	H
6	9.892	32.87	PK-U	36.9	-21.6	48.17	-	-	-	-	68.2	-20.03	249	114	V

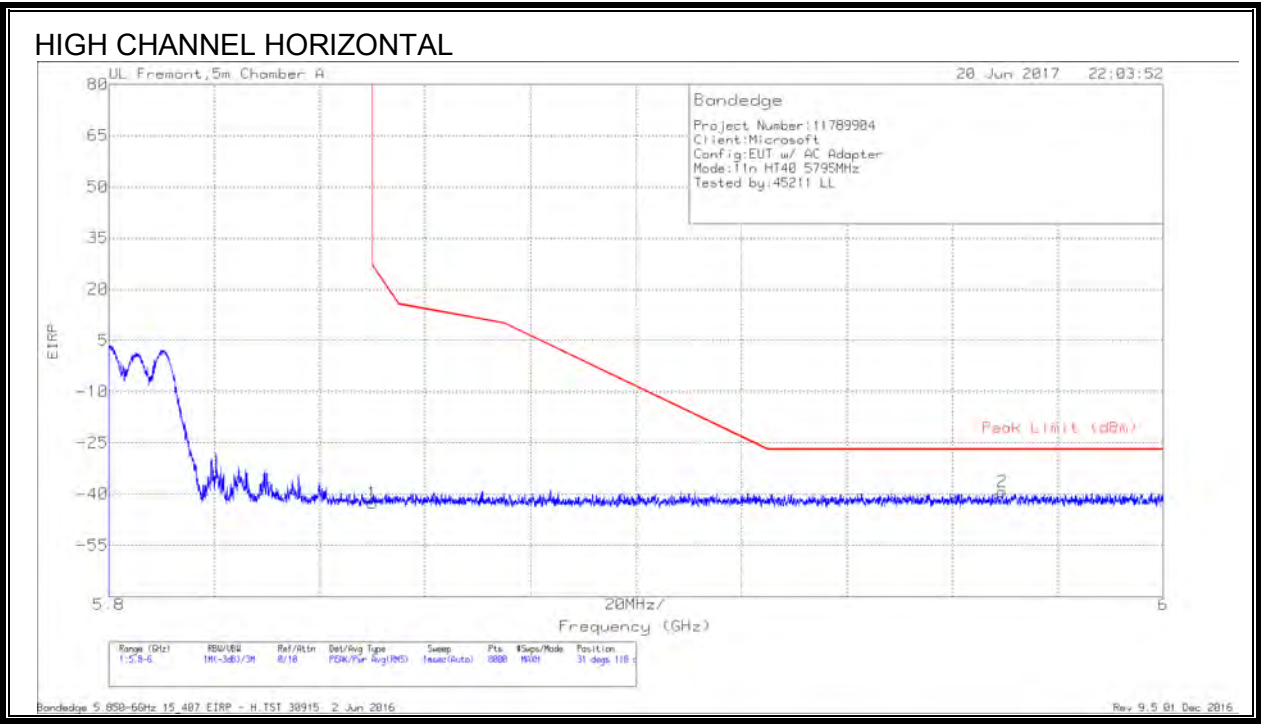
PK-U - U-NII: Maximum Peak



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.644	-67.73	Pk	34.7	-19	11.8	-40.23	-27	-13.23	116	238	V
1	5.725	-58.67	Pk	34.8	-19	11.8	-31.07	27	-58.07	116	238	V

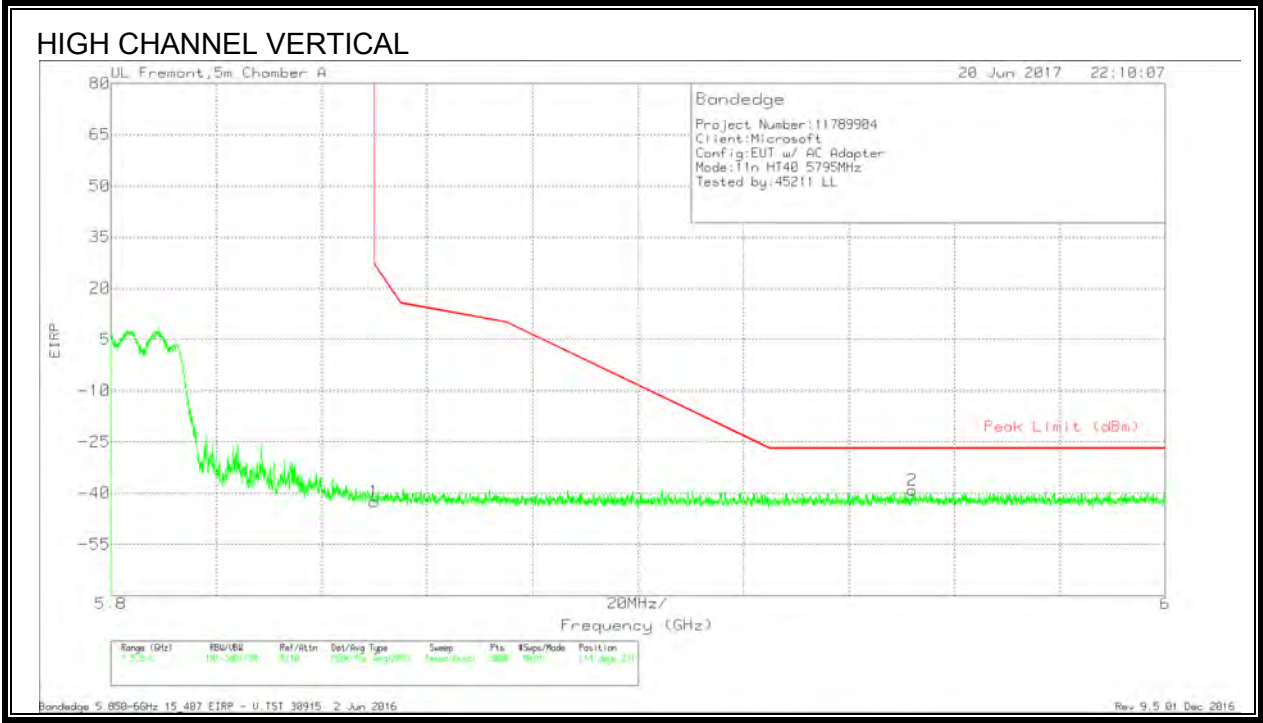
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-70.41	Pk	34.8	-18.8	11.8	-42.61	26.99	-69.6	31	118	H
2	5.969	-67.66	Pk	35.1	-18.6	11.8	-39.36	-27	-12.36	31	118	H

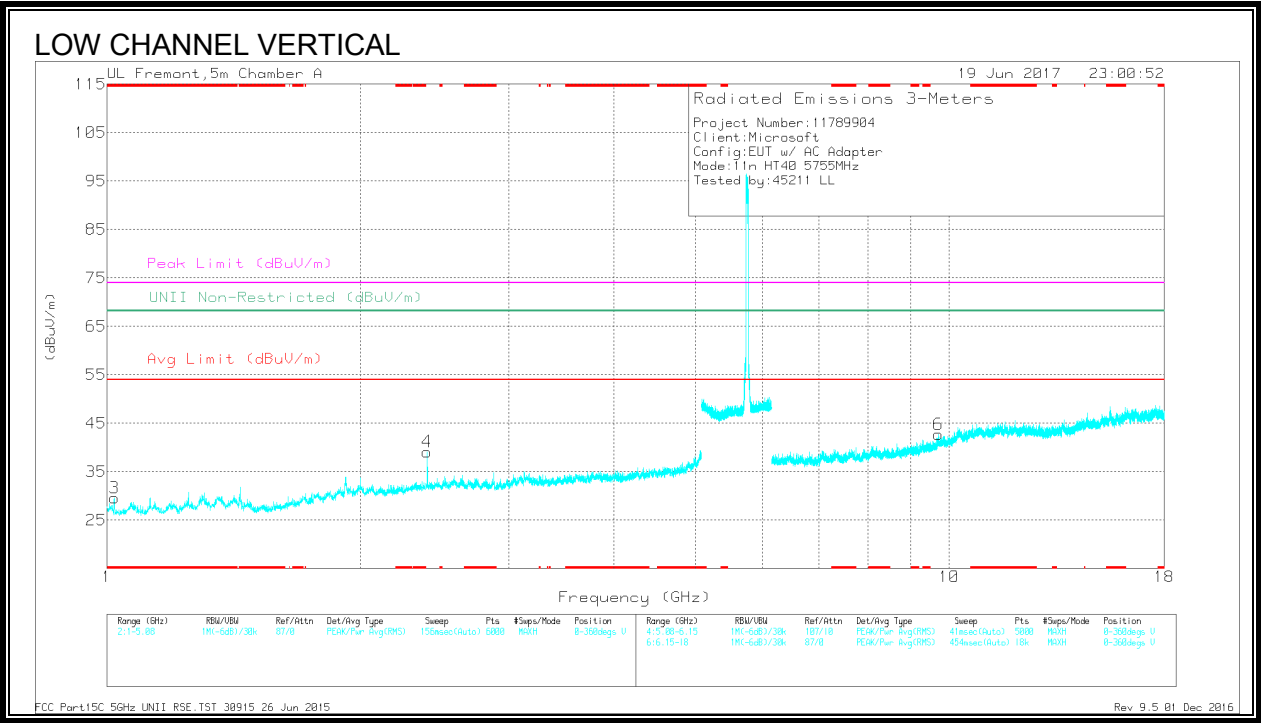
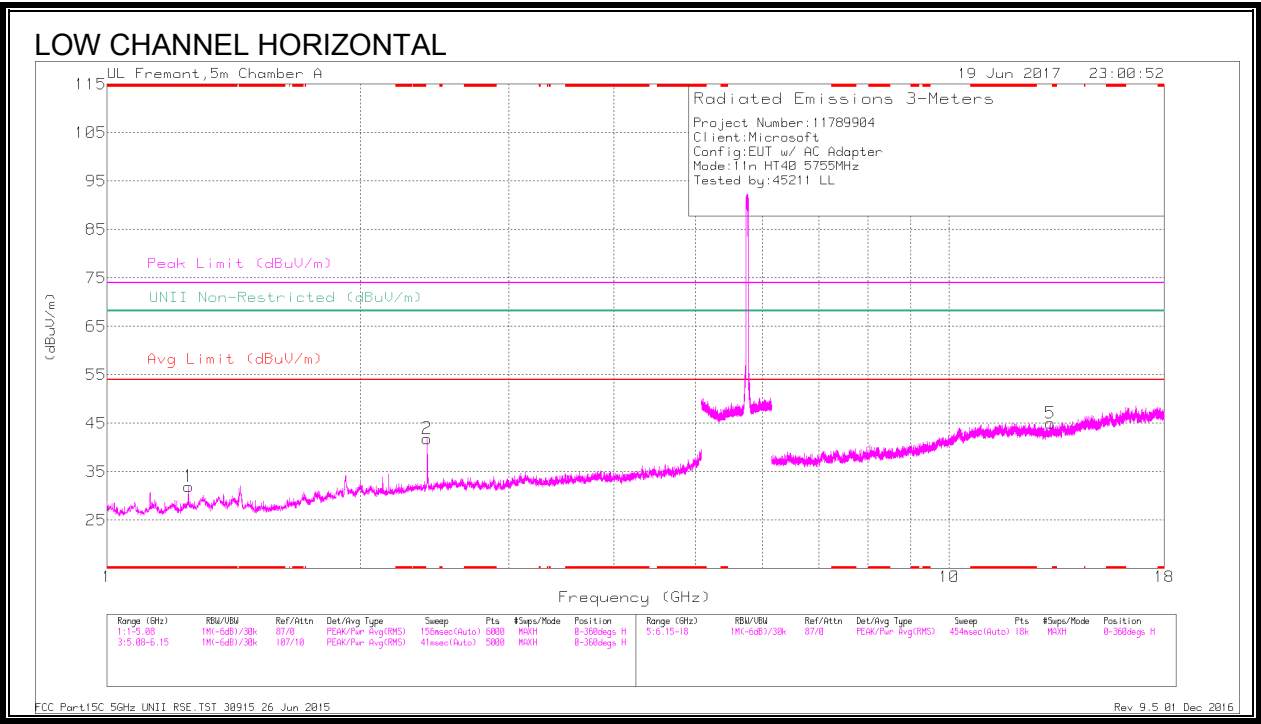
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-70.34	Pk	34.8	-18.8	11.8	-42.54	26.99	-69.53	114	231	V
2	5.952	-67.55	Pk	35.1	-18.5	11.8	-39.15	-27	-12.15	114	231	V

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

HARMONICS AND SPURIOUS EMISSIONS

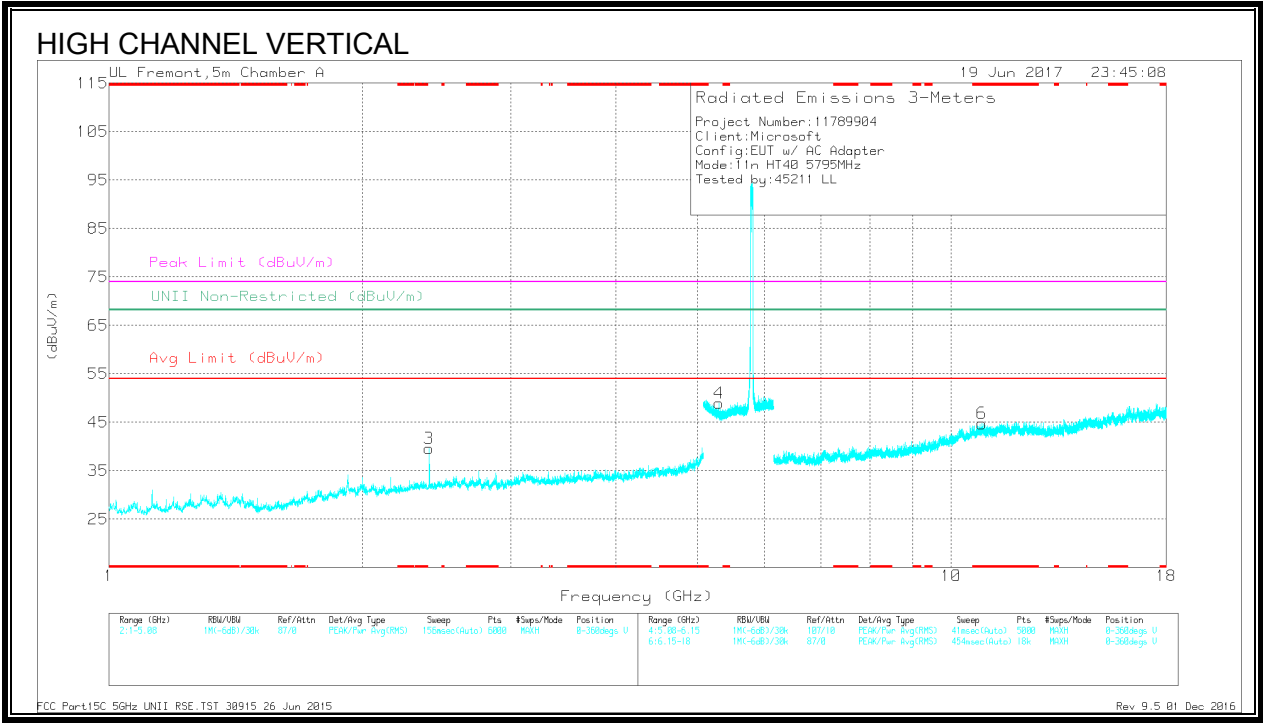
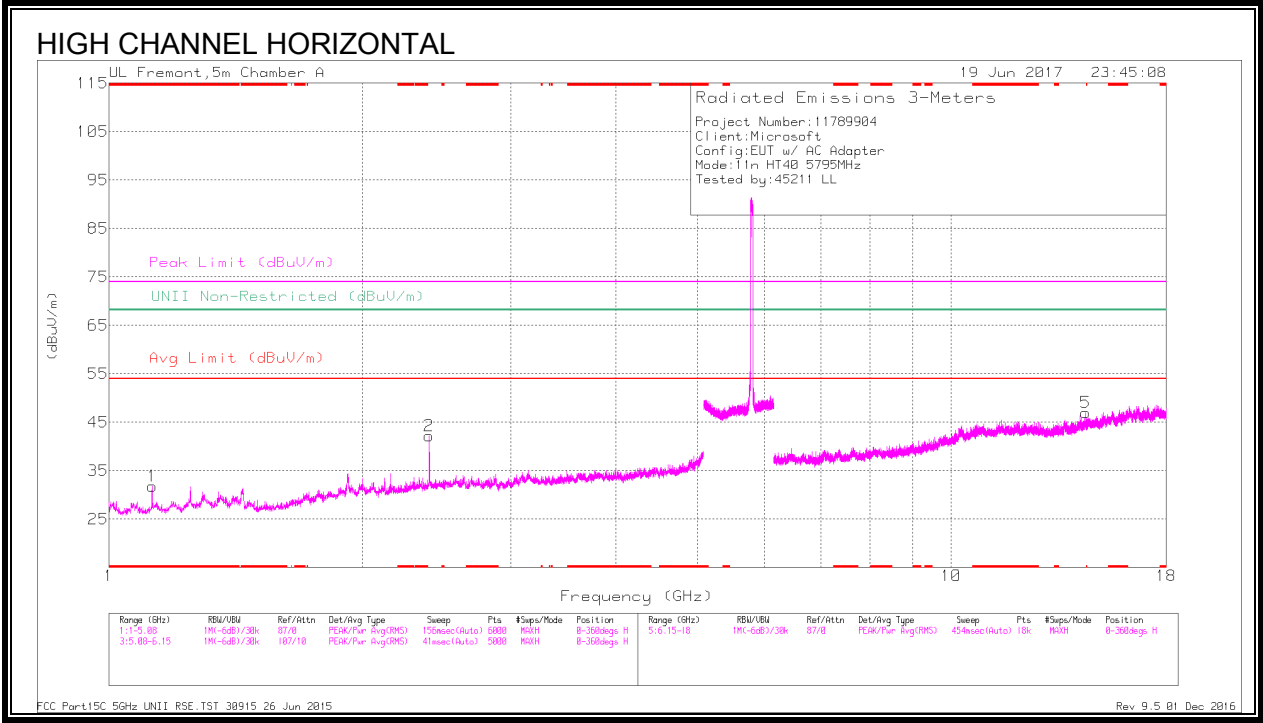


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.25	43.18	PK-U	29.1	-34.3	37.98	-	-	74	-36.02	-	-	263	144	H
	* 1.25	35.16	ADR	29.1	-34.3	29.96	54	-24.04	-	-	-	-	263	144	H
3	* 1.02	44.19	PK-U	27.8	-34.2	37.79	-	-	74	-36.21	-	-	137	191	V
	* 1.02	34.23	ADR	27.8	-34.2	27.83	54	-26.17	-	-	-	-	137	191	V
2	2.4	47.8	PK-U	32.1	-32.3	47.6	-	-	-	-	68.2	-20.6	353	239	H
4	2.4	44.31	PK-U	32.1	-32.2	44.21	-	-	-	-	68.2	-23.99	276	196	V
6	9.714	33.21	PK-U	36.8	-21.4	48.61	-	-	-	-	68.2	-19.59	336	102	V
5	13.175	32.62	PK-U	38.9	-21	50.52	-	-	-	-	68.2	-17.68	273	102	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Filtr/Pad (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	* 1.125	45.01	PK-U	28	-33.8	39.21	-	-	74	-34.79	-	-	185	235	H
	* 1.125	37.38	ADR	28	-33.8	31.58	54	-22.42	-	-	-	-	185	235	H
6	* 10.88	31.89	PK-U	37.9	-19.4	50.39	-	-	74	-23.61	-	-	336	202	V
	* 10.88	20.33	ADR	37.9	-19.4	38.83	54	-15.17	-	-	-	-	336	202	V
2	2.4	48.03	PK-U	32.1	-32.3	47.83	-	-	-	-	68.2	-20.37	351	240	H
3	2.4	44.68	PK-U	32.1	-32.2	44.58	-	-	-	-	68.2	-23.62	230	270	V
4	5.3	38.31	PK-U	34.3	-18.8	53.81	-	-	-	-	68.2	-14.39	345	206	V
5	14.452	32.53	PK-U	39.6	-21.2	50.93	-	-	-	-	68.2	-17.27	245	206	H

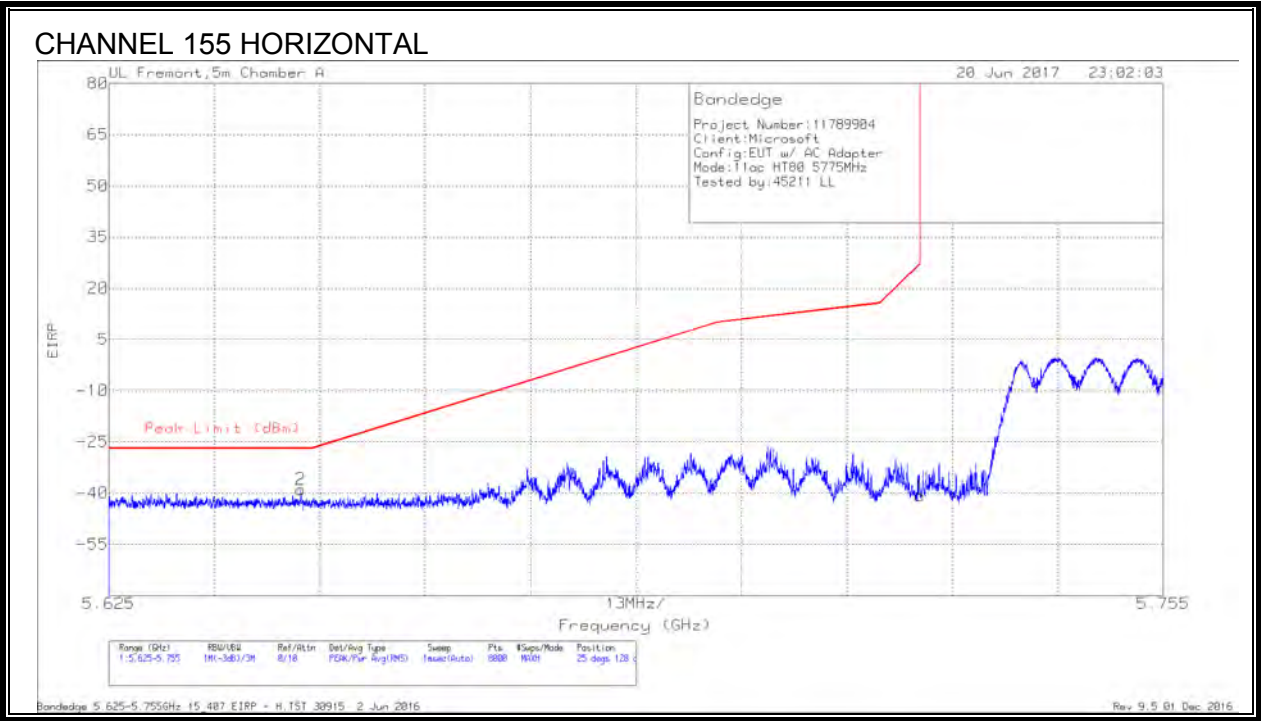
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

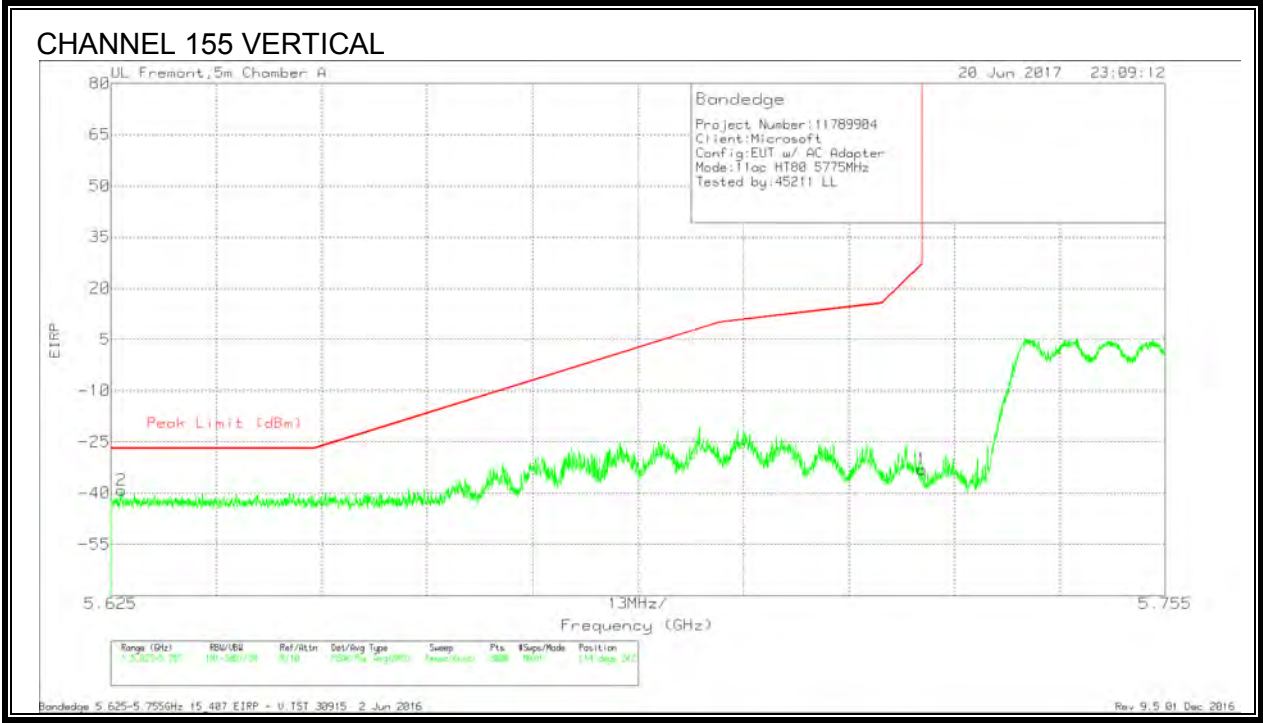
10.1.16.11ac HT80 2TX MODE IN THE 5.8GHz BAND

RESTRICTED BANDEDGE (CHANNEL 155)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cb/Fitr/P ad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.649	-66.37	PK	34.7	-19	11.8	-38.87	-27	-11.87	25	128	H
1	5.725	-68.45	PK	34.8	-19	11.8	-40.85	27	-67.85	25	128	H

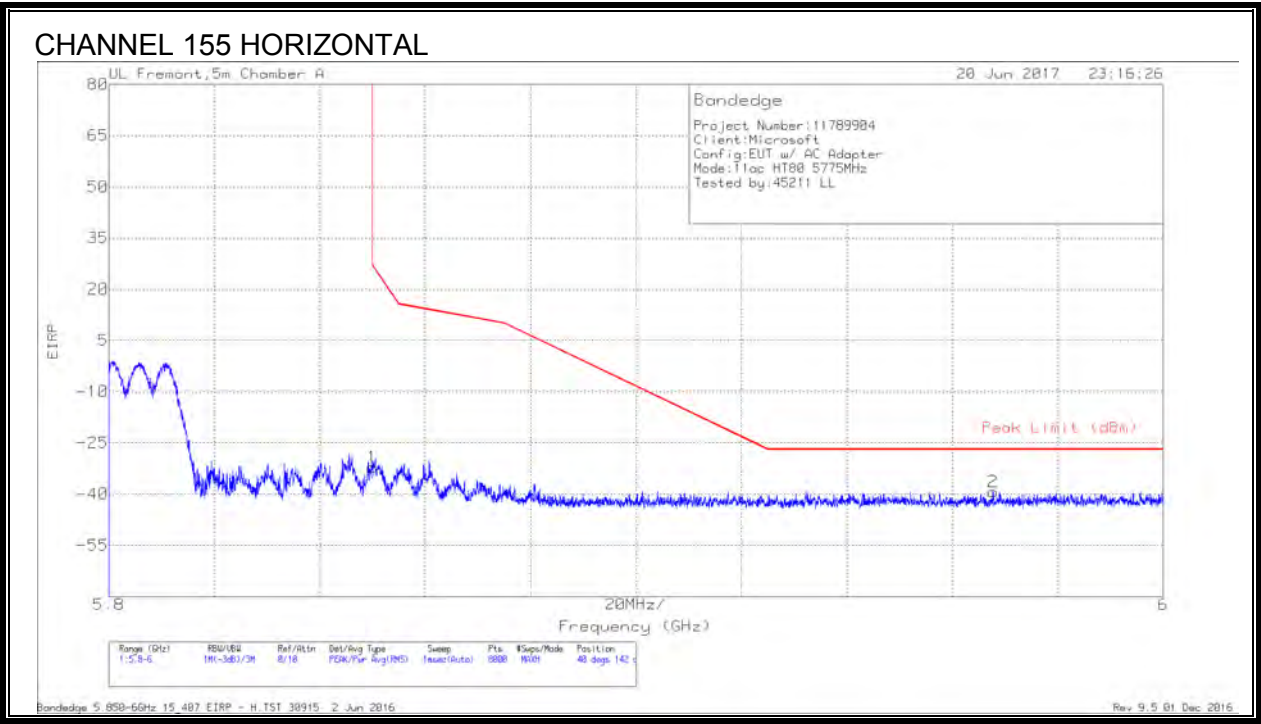
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.626	-66.76	Pk	34.7	-18.9	11.8	-39.16	-27	-12.16	114	242	V
1	5.725	-60.7	Pk	34.8	-19	11.8	-33.1	27	-60.1	114	242	V

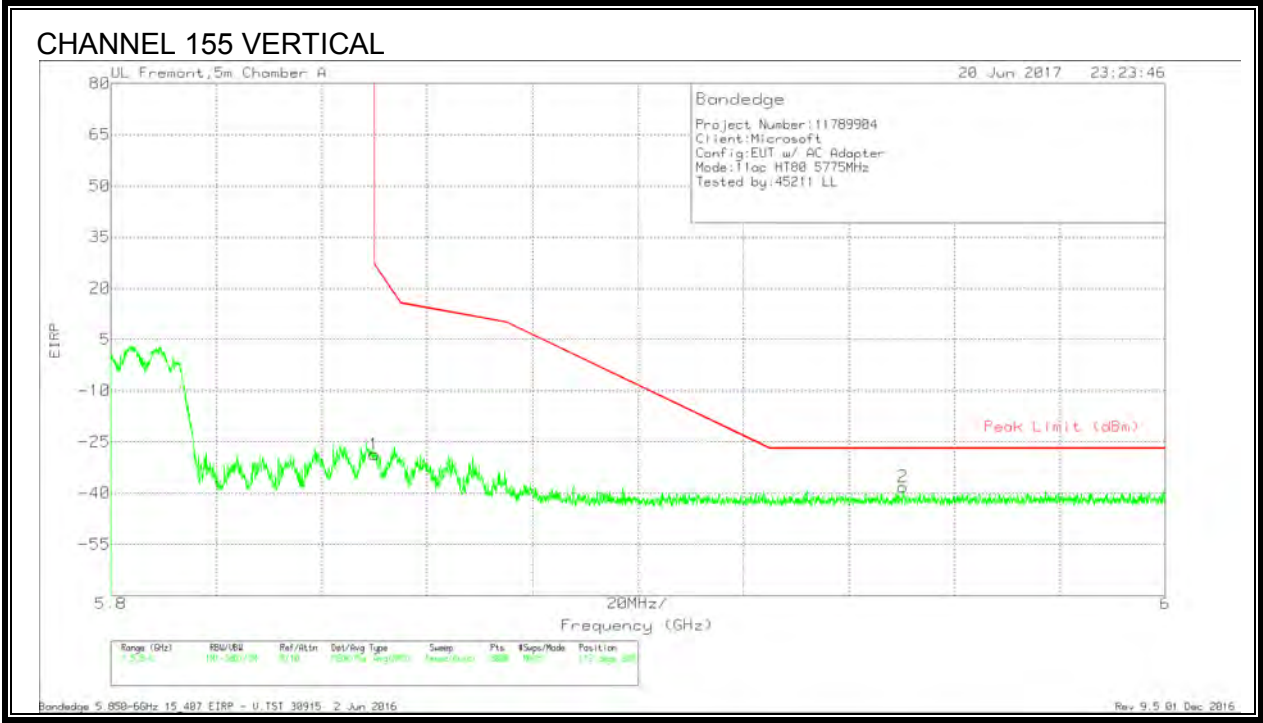
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector

AUTHORIZED BANDEDGE (CHANNEL 155)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/P ad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-59.94	Pk	34.8	-18.8	11.8	-32.14	26.99	-59.13	40	142	H
2	5.968	-67.59	Pk	35.1	-18.6	11.8	-39.29	-27	-12.29	40	142	H

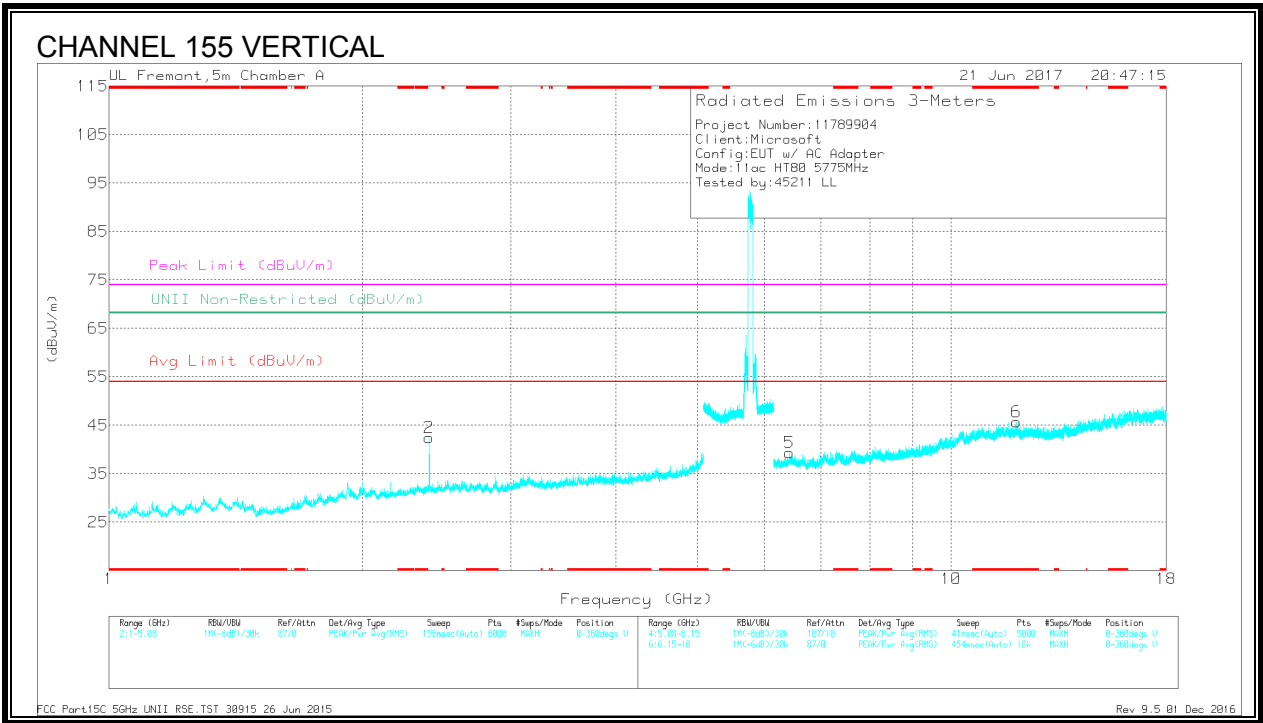
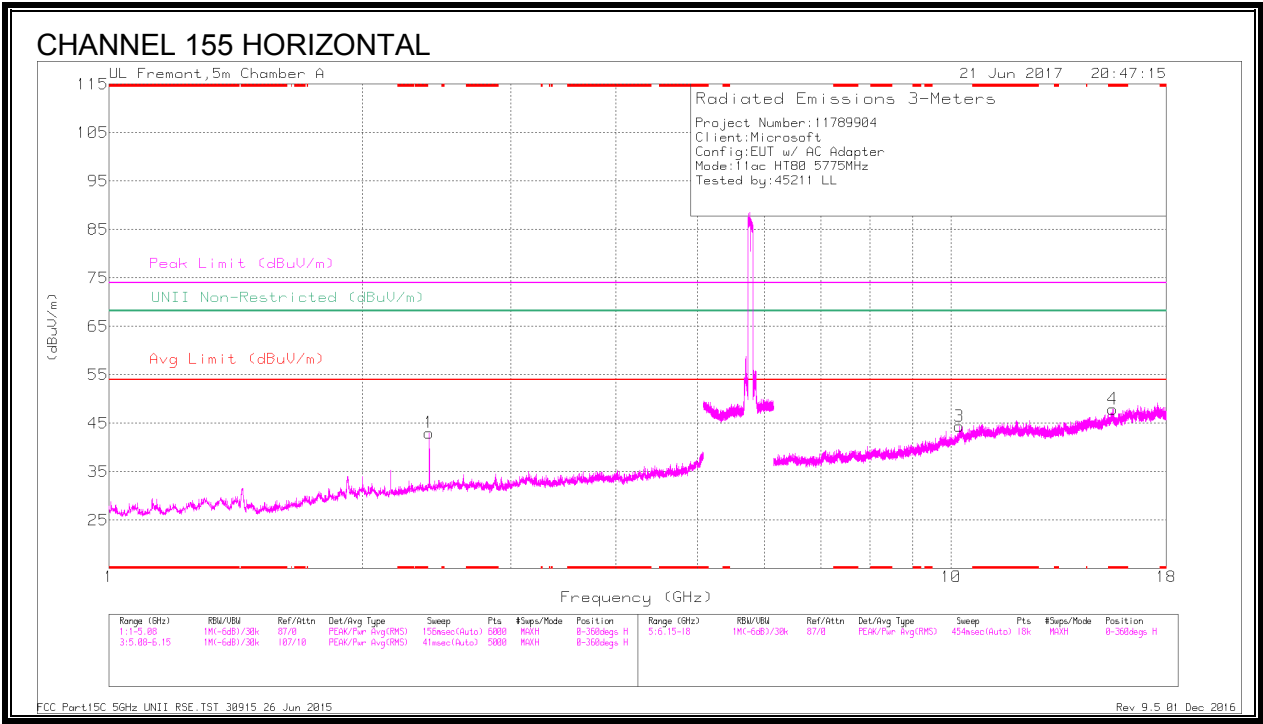
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl/Fitr/P ad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-56.46	Pk	34.8	-18.8	11.8	-28.66	26.99	-55.65	112	200	V
2	5.95	-66.53	Pk	35.1	-18.5	11.8	-38.13	-27	-11.13	112	200	V

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

HARMONICS AND SPURIOUS EMISSIONS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dBm)	Amp/Cbl/Fitr/Pad (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
4	* 15.558	32.68	PK-U	40.3	-19.3	53.68	-	-	74	-20.32	-	-	133	201	H
	* 15.558	20.77	ADR	40.3	-19.3	41.77	54	-12.23	-	-	-	-	133	201	H
6	* 11.959	32.14	PK-U	38.6	-19.5	51.24	-	-	74	-22.76	-	-	296	200	V
	* 11.957	20.38	ADR	38.6	-19.5	39.48	54	-14.52	-	-	-	-	296	200	V
1	2.4	50.62	PK-U	32.1	-32.3	50.42	-	-	-	-	68.2	-17.78	165	177	H
2	2.4	48.06	PK-U	32.1	-32.3	47.86	-	-	-	-	68.2	-20.34	162	102	V
5	6.427	36.02	PK-U	35.5	-25.2	46.32	-	-	-	-	68.2	-21.88	232	147	V
3	10.223	32.81	PK-U	37.1	-20	49.91	-	-	-	-	68.2	-18.29	6	204	H

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

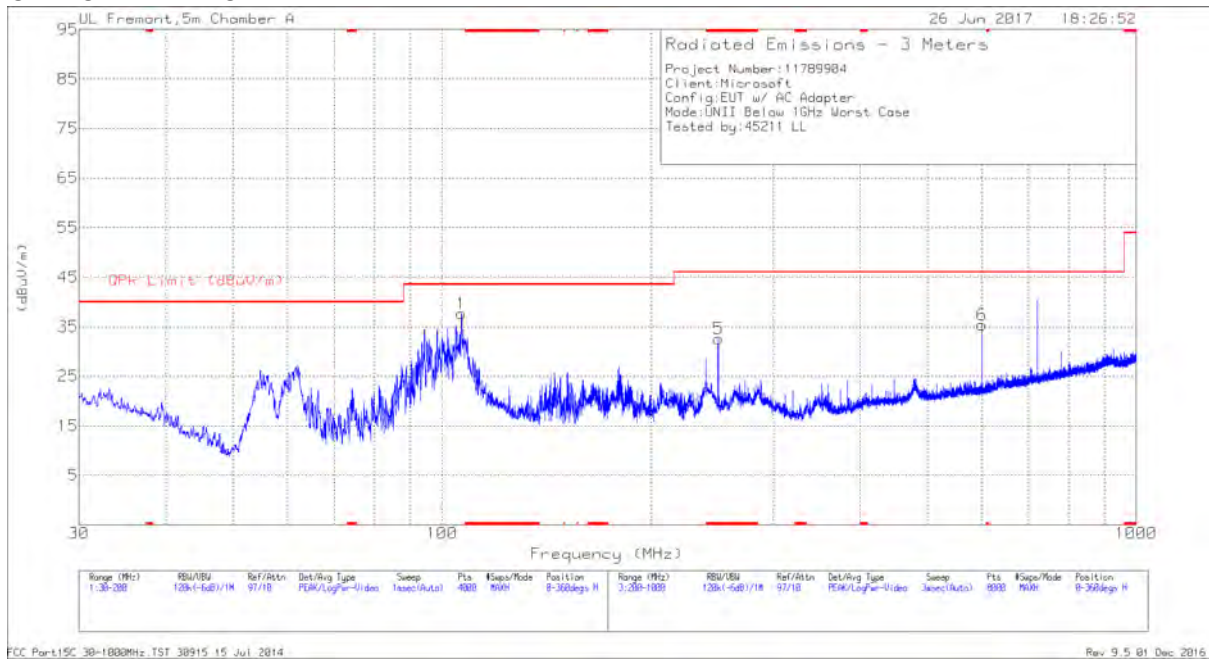
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

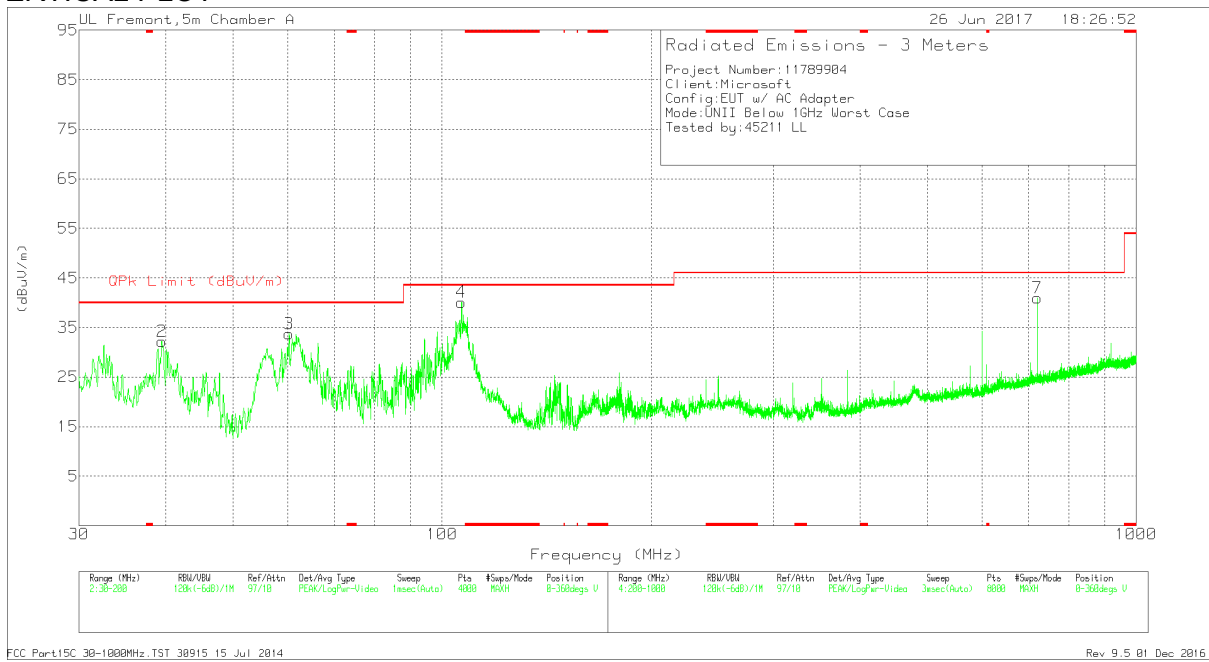
10.2. WORST-CASE BELOW 1 GHz

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

HORIZONTAL PLOT



VERTICAL PLOT



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AFT130 (dB/m)	Amp/Cbl (dB/m)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	106.7215	52.7	Pk	15.9	-30.5	38.1	43.52	-5.42	162	288	H
4	106.7589	50.98	Qp	16	-30.5	36.48	43.52	-7.04	45	103	V
7	720.0244	44.41	Qp	24.5	-28.2	40.71	46.02	-5.31	122	102	V
6	600.052	41.52	Pk	22.5	-28.6	35.42	46.02	-10.6	0-360	101	H
5	* 250.0065	46.7	Pk	15.5	-29.6	32.6	46.02	-13.42	0-360	101	H
2	39.48	44.93	Pk	18.4	-31.1	32.23	40	-7.77	0-360	100	V
3	60.1828	52.88	Pk	11.7	-30.9	33.68	40	-6.32	0-360	100	V

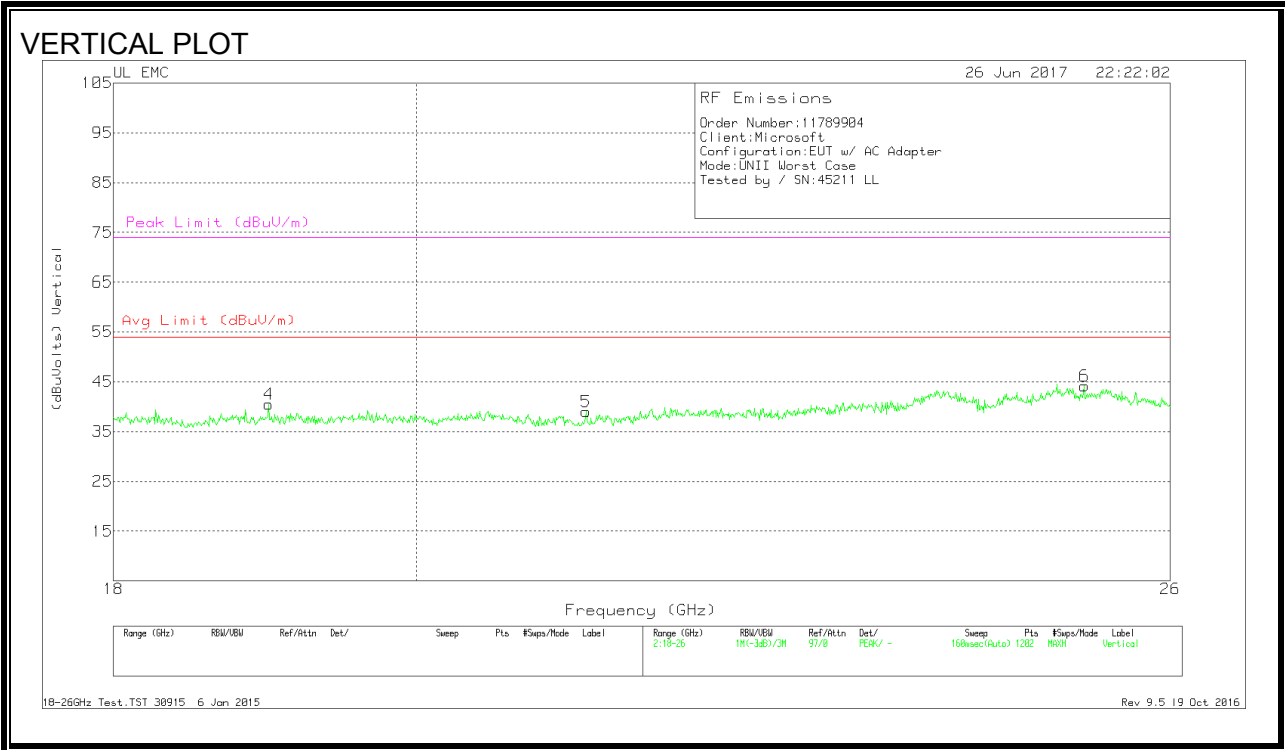
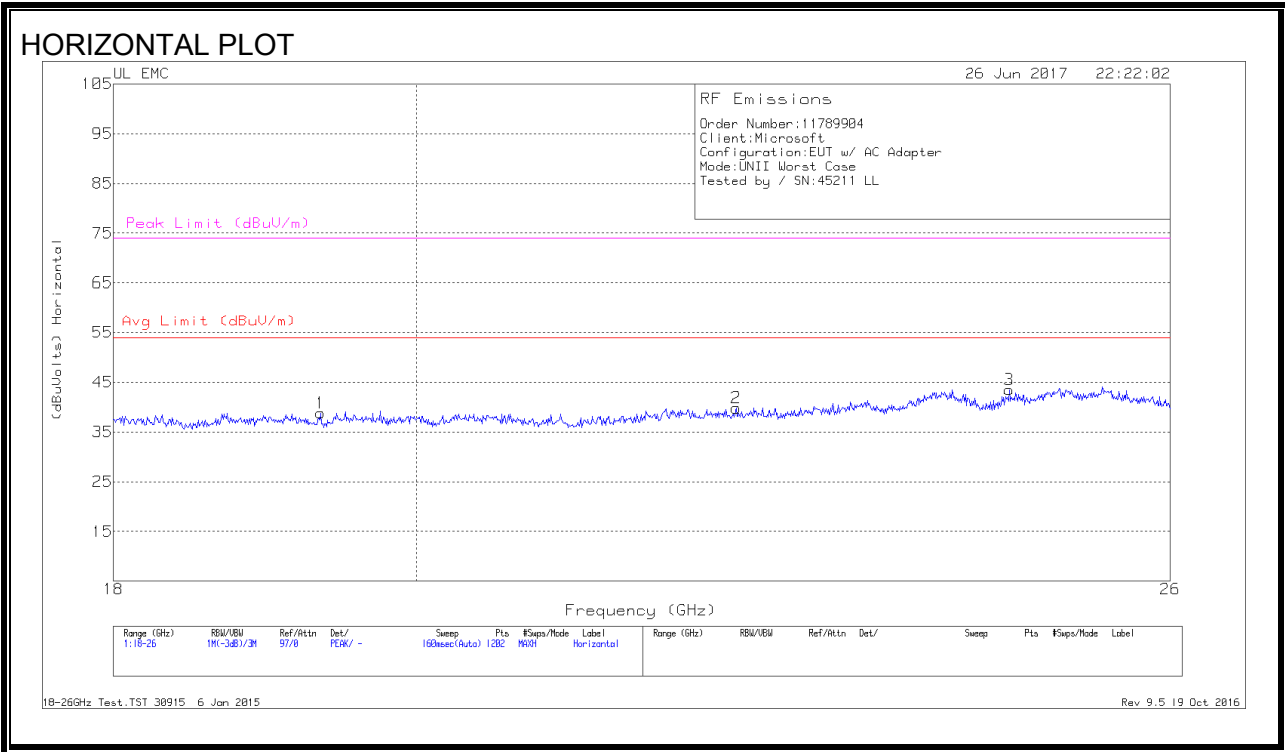
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

Qp - Quasi-Peak detector

10.3. WORST-CASE 18 to 26 GHz

SPURIOUS EMISSIONS 18 TO 26 GHz (WORST-CASE CONFIGURATION)



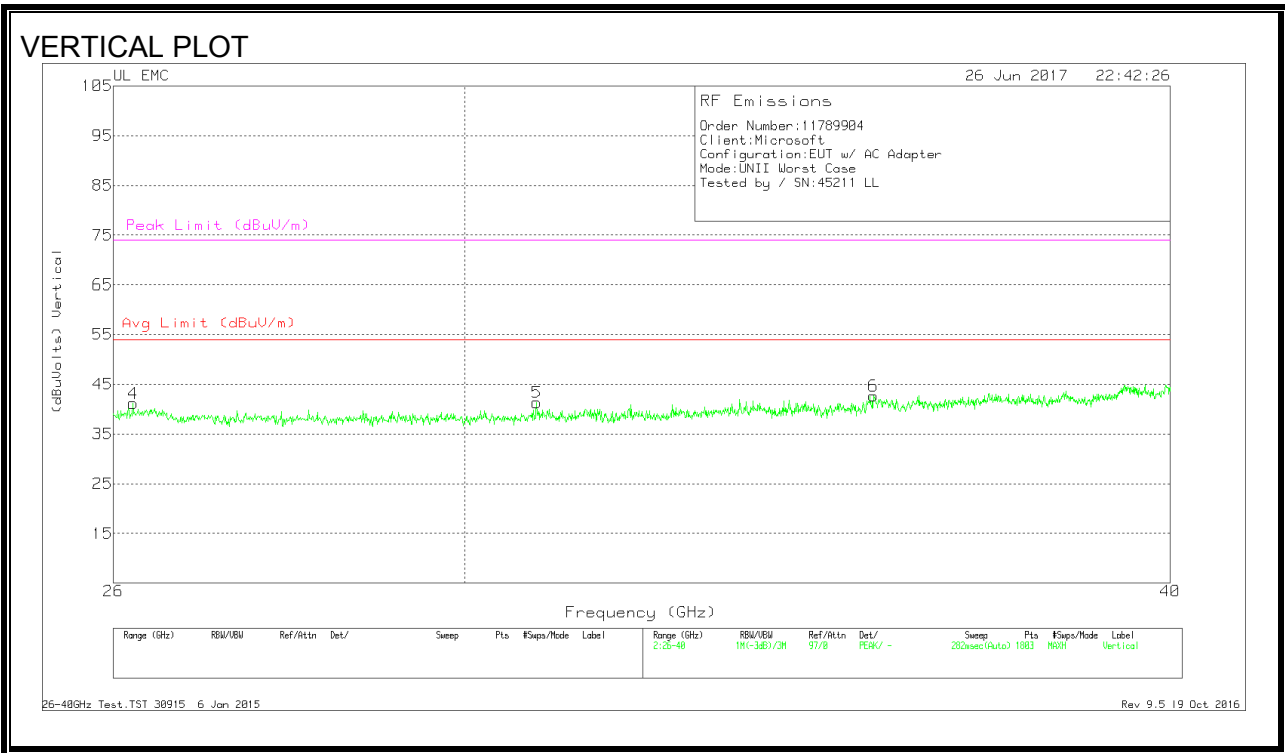
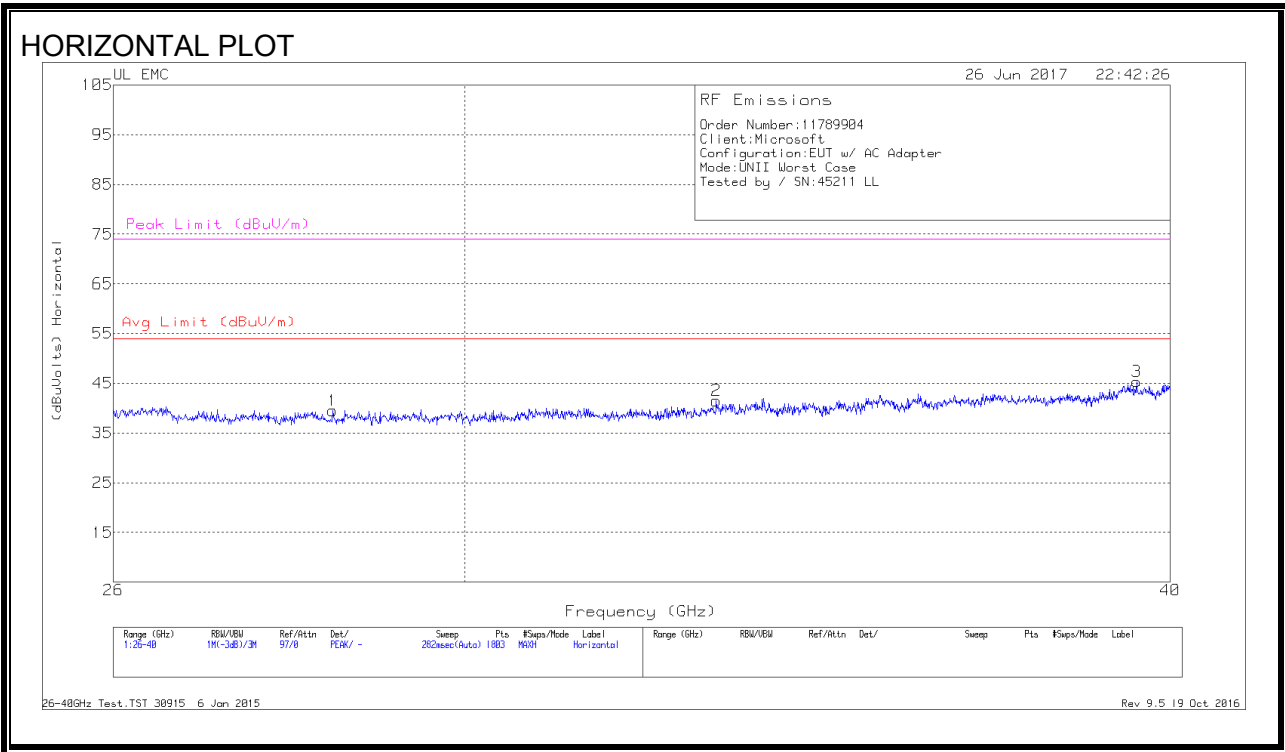
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T449 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	19.346	40.43	Pk	32.6	-24.7	-9.5	38.83	54	-15.17	74	-35.17
2	22.356	40.53	Pk	33.5	-24.7	-9.5	39.83	54	-14.17	74	-34.17
3	24.581	43	Pk	34.1	-24.1	-9.5	43.5	54	-10.5	74	-30.5
4	18.999	42.3	Pk	32.5	-24.8	-9.5	40.5	54	-13.5	74	-33.5
5	21.217	40.3	Pk	33	-24.8	-9.5	39	54	-15	74	-35
6	25.234	44.17	Pk	34.3	-24.8	-9.5	44.17	54	-9.83	74	-29.83

Pk - Peak detector

10.4. WORST-CASE 26 to 40 GHz

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

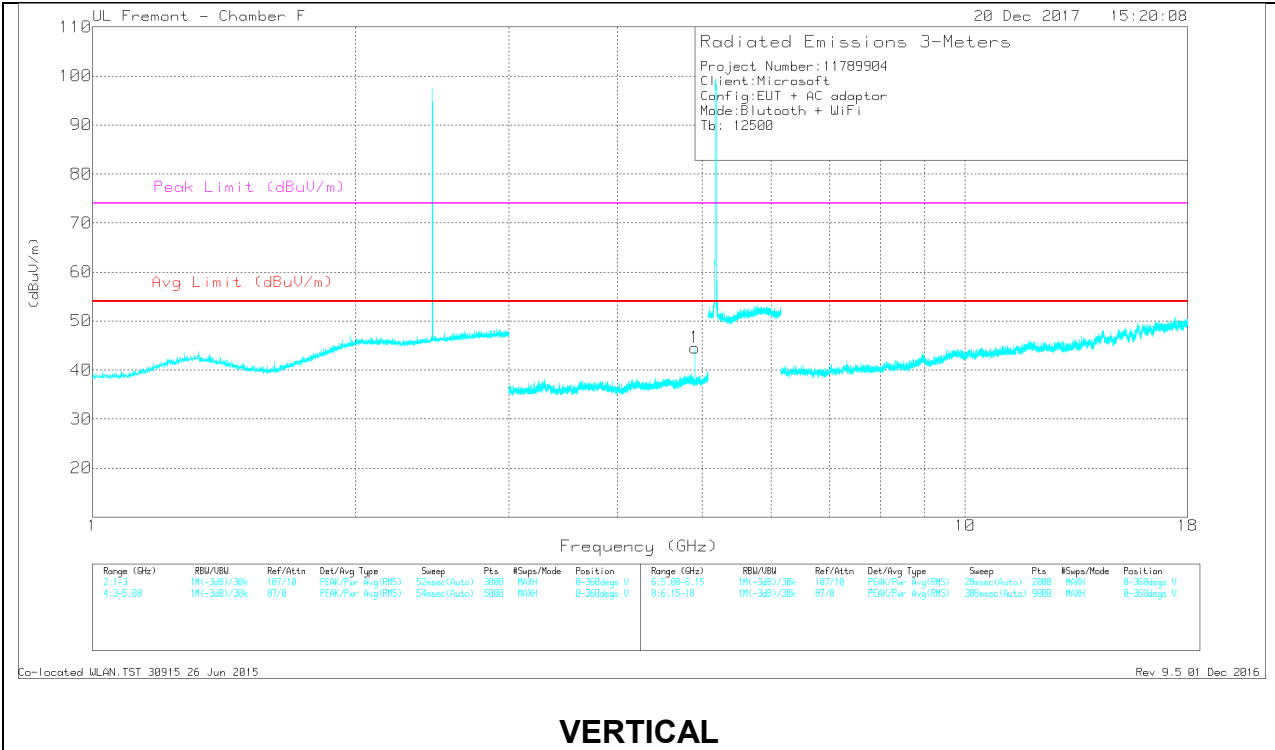
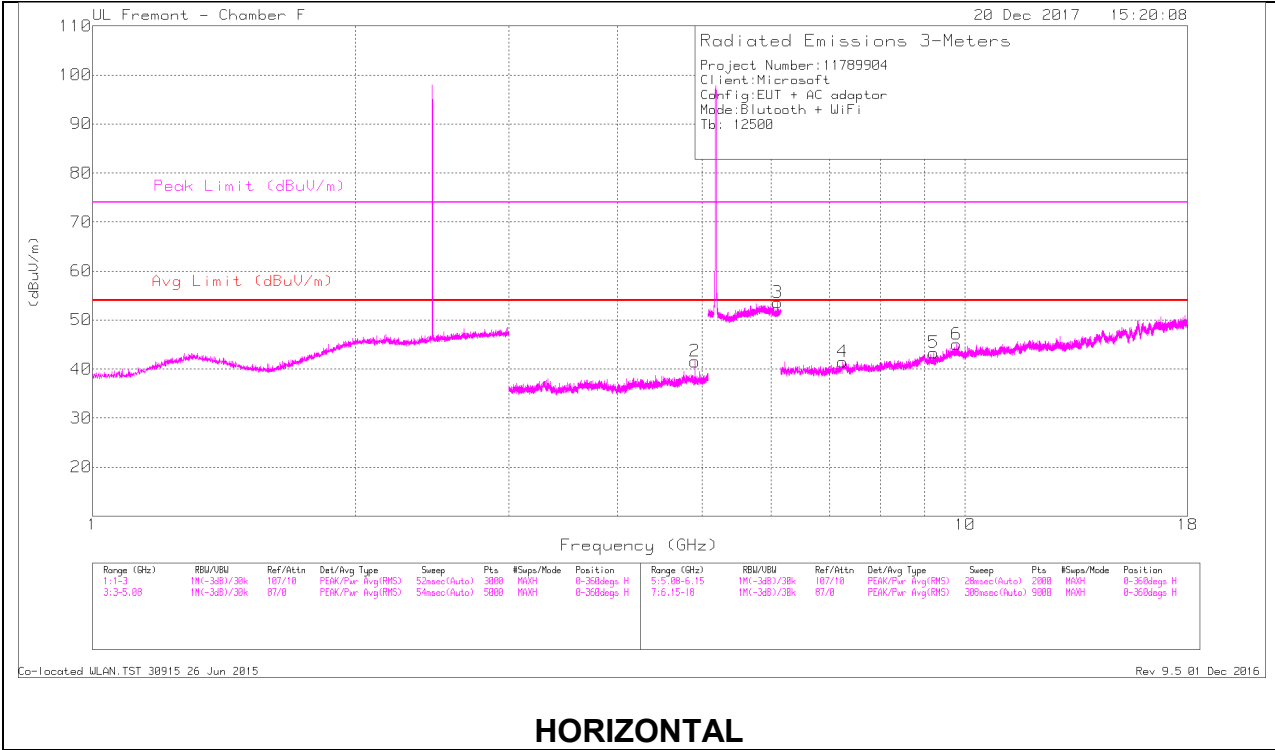


DATA

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	28.432	45.6	Pk	35.7	-32.3	-9.5	39.5	54	-14.5	74	-34.5
2	33.241	47.5	Pk	36.9	-33.4	-9.5	41.5	54	-12.5	74	-32.5
3	39.456	49.53	Pk	37.5	-32.2	-9.5	45.33	54	-8.67	74	-28.67
4	26.21	46.37	Pk	35.6	-31.3	-9.5	41.17	54	-12.83	74	-32.83
5	30.895	48.13	Pk	36	-33.3	-9.5	41.33	54	-12.67	74	-32.67
6	35.44	48.07	Pk	37.9	-33.8	-9.5	42.67	54	-11.33	74	-31.33

Pk - Peak detector

10.5. WORST-CASE SIMULTANEOUS TRANSMISSION



SIMULTANEOUS TRANSMISSION DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.902	37.71	PK-U	34.2	-27.8	0	44.11	-	-	74	-29.89	26	187	H
	* 4.904	26.62	ADR	34.2	-27.8	0	33.02	54	-20.98	-	-	26	187	H
1	* 4.904	39.45	PK-U	34.2	-27.8	0	45.85	-	-	74	-28.15	202	238	V
	* 4.904	27.13	ADR	34.2	-27.8	0	33.53	54	-20.47	-	-	202	238	V
3	6.099	42.2	PK-U	35.2	-17.4	0	60	-	-	74	-14	113	236	H
	6.1	29.46	ADR	35.2	-17.3	0	47.36	54	-6.64	-	-	113	236	H
4	7.244	37.39	PK-U	35.9	-25.3	0	47.99	-	-	74	-26.01	257	239	H
	7.244	25.65	ADR	35.9	-25.3	0	36.25	54	-17.75	-	-	257	239	H
5	9.217	35.5	PK-U	36.4	-22	0	49.9	-	-	74	-24.1	224	142	H
	9.214	23.43	ADR	36.3	-22	0	37.73	54	-16.27	-	-	224	142	H
6	9.78	35.01	PK-U	37.4	-21.3	0	51.11	-	-	74	-22.89	0	329	H
	9.782	23.45	ADR	37.4	-21.3	0	39.55	54	-14.45	-	-	0	329	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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.

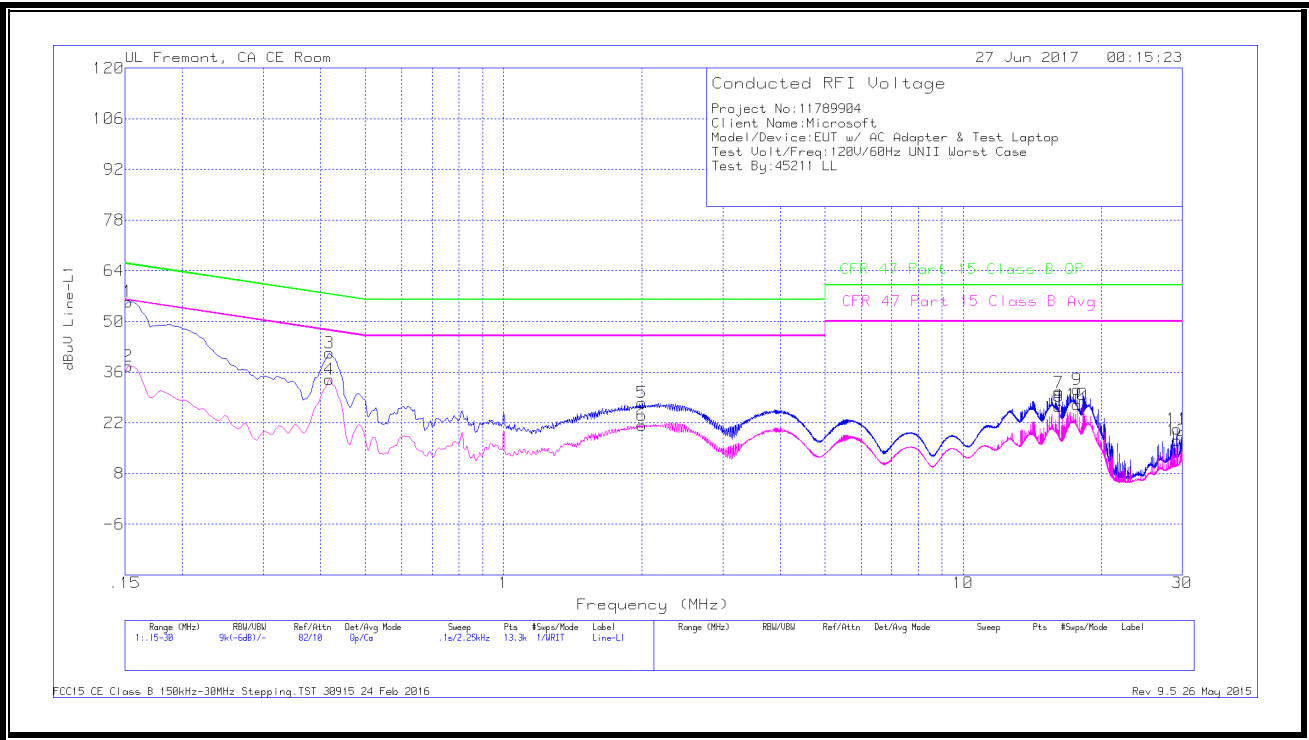
TEST PROCEDURE

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.

LINE 1 RESULTS



Trace Markers

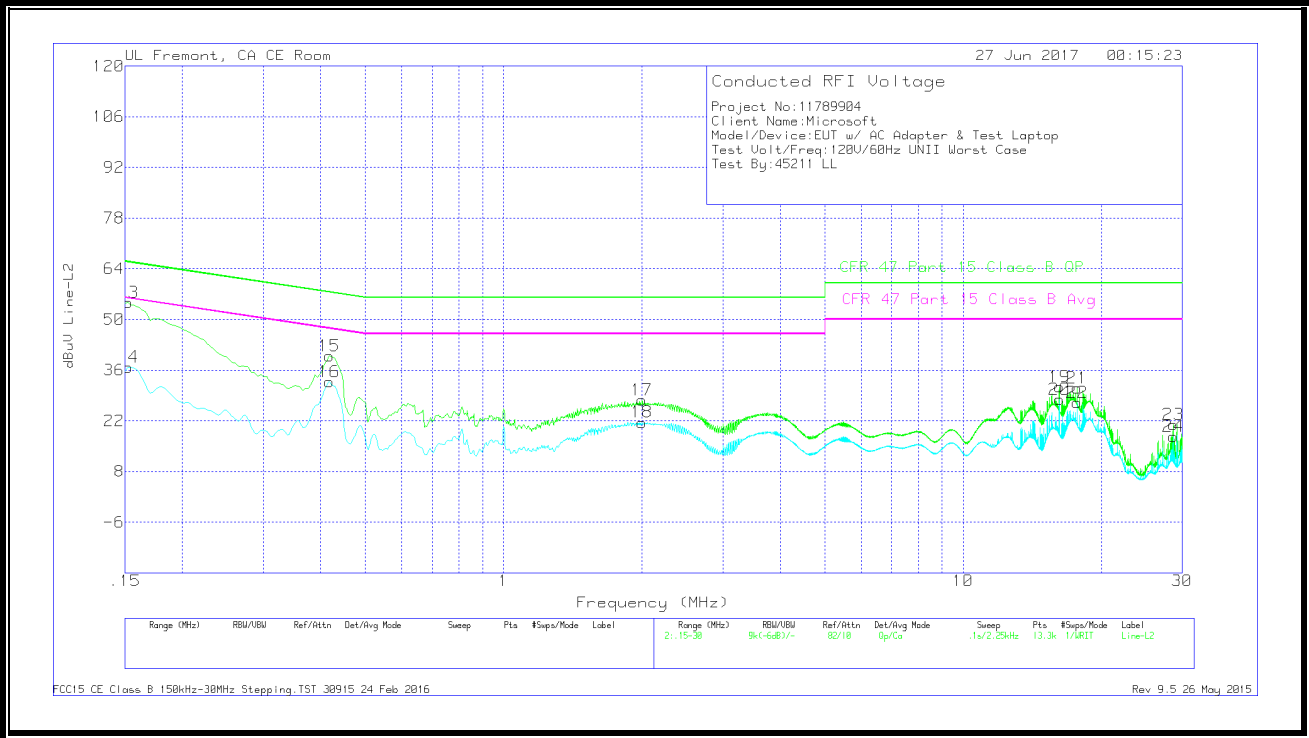
Range 1: Line-L1 .15 - 30MHz

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) Margin (dB)
1	.15225	45.17	Qp	.1	.1	10.1	55.47	65.88	-10.41	-	-
2	.15225	27.38	Ca	.1	.1	10.1	37.68	-	-	55.88	-18.2
3	.41775	31.05	Qp	0	.1	10.1	41.25	57.49	-16.24	-	-
4	.41775	23.76	Ca	0	.1	10.1	33.96	-	-	47.49	-13.53
5	2.00175	17.3	Qp	0	.1	10.1	27.5	56	-28.5	-	-
6	1.9995	11.17	Ca	0	.1	10.1	21.37	-	-	46	-24.63
7	16.16775	19.8	Qp	0	.2	10.3	30.3	60	-29.7	-	-
8	16.16775	16.06	Ca	0	.2	10.3	26.56	-	-	50	-23.44
9	17.69325	20.79	Qp	0	.2	10.3	31.29	60	-28.71	-	-
10	17.69325	16.59	Ca	0	.2	10.3	27.09	-	-	50	-22.91
11	29.23575	9.45	Qp	.1	.3	10.4	20.25	60	-39.75	-	-
12	29.23575	6.4	Ca	.1	.3	10.4	17.2	-	-	50	-32.8

Qp - Quasi-Peak detector

Ca - CISPR average detection

LINE 2 RESULTS



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) Margin (dB)
13	.15225	44.56	Qp	0	0	10.1	54.66	65.88	-11.22	-	-
14	.15225	26.77	Ca	0	0	10.1	36.87	-	-	55.88	-19.01
15	.41775	29.72	Qp	0	.1	10.1	39.92	57.49	-17.57	-	-
16	.41775	22.55	Ca	0	.1	10.1	32.75	-	-	47.49	-14.74
17	2.00175	17.56	Qp	0	.1	10.1	27.76	56	-28.24	-	-
18	2.00063	11.38	Ca	0	.1	10.1	21.58	-	-	46	-24.42
19	16.2285	20.91	Qp	0	.2	10.3	31.41	60	-28.59	-	-
20	16.2285	17.36	Ca	0	.2	10.3	27.86	-	-	50	-22.14
21	17.69325	20.62	Qp	0	.2	10.3	31.12	60	-28.88	-	-
22	17.69325	16.51	Ca	0	.2	10.3	27.01	-	-	50	-22.99
23	28.6845	10.02	Qp	.1	.3	10.5	20.92	60	-39.08	-	-
24	28.6845	6.78	Ca	.1	.3	10.5	17.68	-	-	50	-32.32

Qp - Quasi-Peak detector

Ca - CISPR average detection

12. DYNAMIC FREQUENCY SELECTION

12.1. OVERVIEW

12.1.1. LIMITS

INDUSTRY CANADA

IC RSS-247 is closely harmonized with FCC Part 15 DFS rules. The deviations are as follows:

RSS-247 Issue 2

Note: For the band 5600–5650 MHz, no operation is permitted.

Until further notice, devices subject to this annex shall not be capable of transmitting in the band 5600–5650 MHz. This restriction is for the protection of Environment Canada weather radars operating in this band.

FCC

§15.407 (h), FCC KDB 905462 D02 “COMPLIANCE MEASUREMENT PROCEDURES FOR UNLICENSED-NATIONAL INFORMATION INFRASTRUCTURE DEVICES OPERATING IN THE 5250-5350 MHz AND 5470-5725 MHz BANDS INCORPORATING DYNAMIC FREQUENCY SELECTION” and KDB 905462 D03 “U-NII CLIENT DEVICES WITHOUT RADAR DETECTION CAPABILITY”.

Table 1: Applicability of DFS requirements prior to use of a channel

Requirement	Operational Mode		
	Master	Client (without radar detection)	Client (with radar detection)
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master	Client (without DFS)	Client (with DFS)
DFS Detection Threshold	Yes	Not required	Yes
Channel Closing Transmission Time	Yes	Yes	Yes
Channel Move Time	Yes	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required	Yes

Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar DFS	Client (without DFS)
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in all 20 MHz channel blocks and a null frequency between the bonded 20 MHz channel blocks.		

Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (see notes)
E.I.R.P. $\geq$ 200 mill watt	-64 dBm
E.I.R.P. < 200 mill watt and power spectral density < 10 dBm/MHz	-62 dBm
E.I.R.P. < 200 mill watt that do not meet power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note 3: E.I.R.P. is based on the highest antenna gain. For MIMO devices refer to KDB publication 662911 D01.	

Table 4: DFS Response requirement values

Parameter	Value
<i>Non-occupancy period</i>	30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds (See Note 1)
<i>Channel Closing Transmission Time</i>	200 milliseconds + approx. 60 milliseconds over remaining 10 second period. (See Notes 1 and 2)
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. (See Note 3)
Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (usec)	PRI (usec)	Pulses	Minimum Percentage of Successful Detection	Minimum Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in table 5a	Roundup: $\{(1/360) \times (19 \times 10^6 \text{ PRI}_{\text{usec}})\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 usec. With a minimum increment of 1 usec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the <i>Detection Bandwidth</i> test, <i>Channel Move Time</i> , and <i>Channel Closing Time</i> tests.					

Table 6 – Long Pulse Radar Test Signal

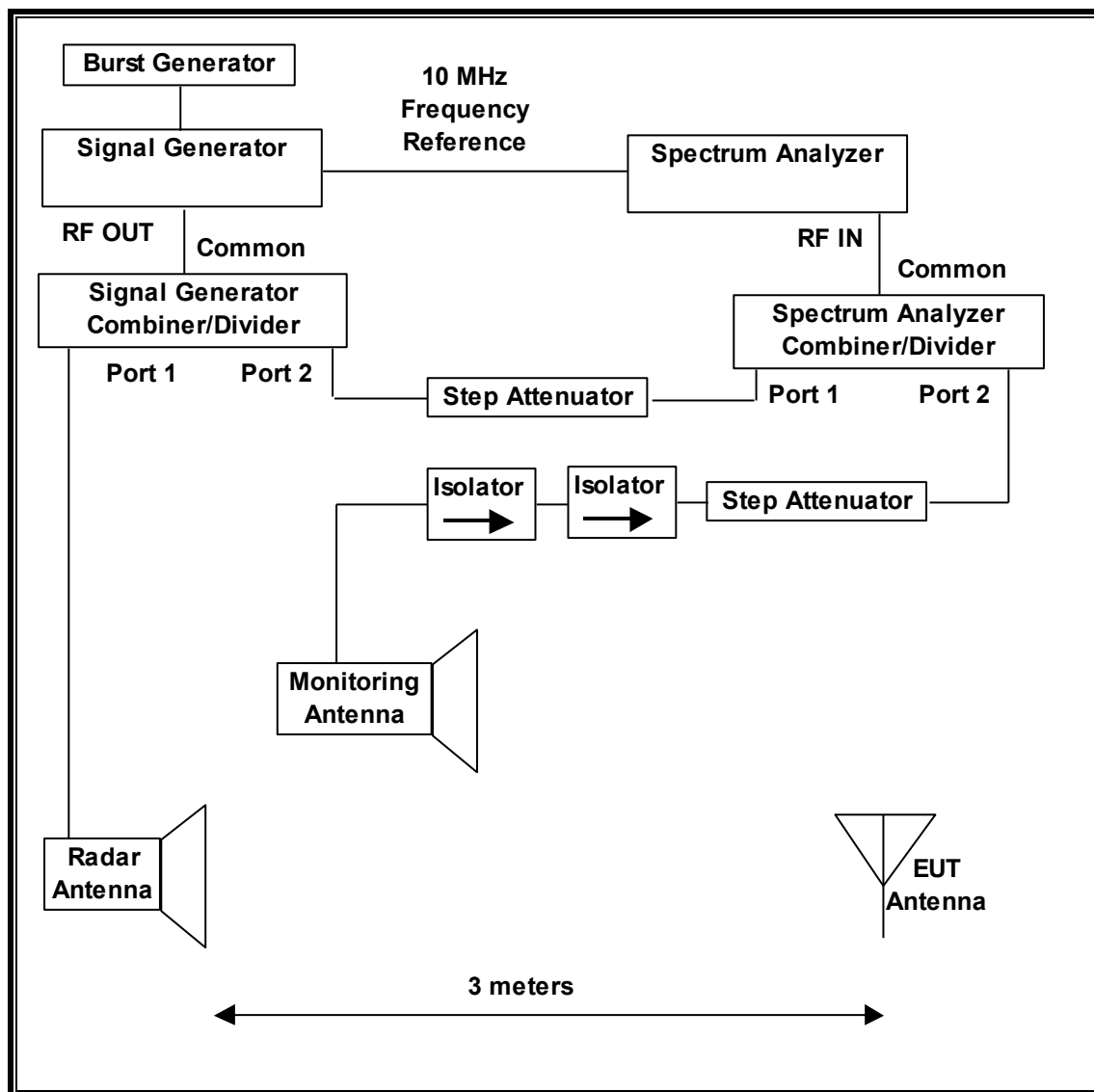
Radar Waveform Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Table 7 – Frequency Hopping Radar Test Signal

Radar Waveform Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Trials
6	1	333	9	0.333	300	70%	30

12.1.2. TEST AND MEASUREMENT SYSTEM

RADIATED METHOD SYSTEM BLOCK DIAGRAM



SYSTEM OVERVIEW

The short pulse and long pulse signal generating system utilizes the NTIA software. The Vector Signal Generator has been validated by the NTIA. The hopping signal generating system utilizes the CCS simulated hopping method and system, which has been validated by the DoD, FCC and NTIA. The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution.

The short pulse types 1, 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time.

The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of KDB 905462 D02. The frequency of the signal generator is incremented in 1 MHz steps from F_L to F_H for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

The signal monitoring equipment consists of a spectrum analyzer. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold.

SYSTEM CALIBRATION

A 50-ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to a horn antenna via a coaxial cable, with the reference level offset set to (horn antenna gain – coaxial cable loss). The signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of –64 dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyzer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. The Reference Level Offset of the spectrum analyzer is adjusted so that the displayed amplitude of the signal is –64 dBm.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of –64 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

ADJUSTMENT OF DISPLAYED TRAFFIC LEVEL

A link is established between the Master and Slave and the distance between the units is adjusted as needed to provide a suitable received level at the Master and Slave devices. The video test file is streamed to generate WLAN traffic. The monitoring antenna is adjusted so that the WLAN traffic level, as displayed on the spectrum analyzer, is at lower amplitude than the radar detection threshold.

TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the DFS tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	Cal Due
Spectrum Analyzer, PXA, 3Hz to 44GHz	Keysight	N9030A	MY55410147	12/15/17
Signal Generator, MXG X-Series RF Vector	Agilent	N5182B	MY51350337	04/21/18

12.1.3. TEST AND MEASUREMENT SOFTWARE

The following test and measurement software was utilized for the tests documented in this report:

TEST SOFTWARE LIST		
Name	Version	Test / Function
Aggregate Time-PXA	3.0	Channel Loading and Aggregate Closing Time
PXA Read	3.0.0.9	Signal Generator Screen Capture
SGXProject.exe	1.7	Radar Waveform Generation and Download

12.1.4. TEST ROOM ENVIRONMENT

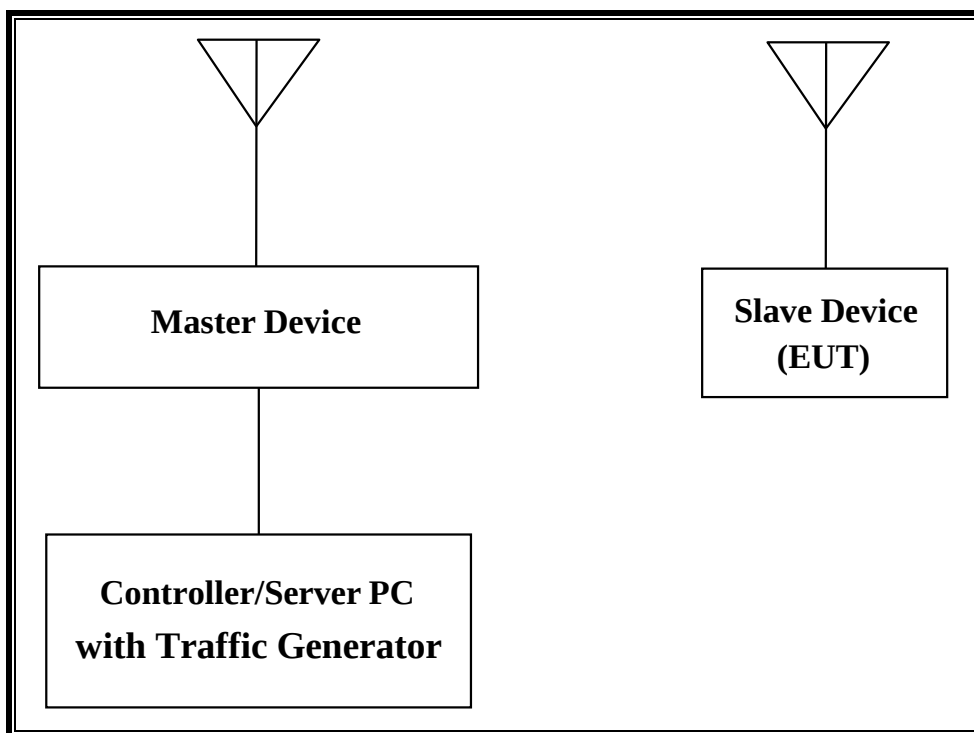
The test room temperature and humidity shall be maintained within normal temperature of 15~35 °C and normal humidity 20~75% (relative humidity).

ENVIRONMENT CONDITION

Parameter	Value
Temperature	25.3 °C
Humidity	33 %

12.1.5. SETUP OF EUT

RADIATED METHOD EUT TEST SETUP



SUPPORT EQUIPMENT

The following support equipment was utilized for the DFS tests documented in this report:

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter (EUT)	Microsoft japan Co. Ltd.	1735	0C130E00JVF6A	DoC
802.11ac Dual Band Wireless Access Point (Master Device)	Cisco	AIR-CAP3702E-A-K9	FTX181570A6	LDK102087
P.O.E. Injector (Master Device)	Phihong	POE30U-560(G)	PHI170102N2	DoC
Notebook PC (Controller/Server)	Lenovo	Type 4236-B92	PB-HEX04 12/05	DoC
AC Adapter (Controller/Server PC)	Lenovo	42T4418	11S42T4418Z1ZGWG08 R90M	DoC

12.1.6. DESCRIPTION OF EUT

For FCC the EUT operates over the 5250-5350 MHz and 5470-5725 MHz ranges.

For IC the EUT operates over the 5250-5350 MHz and 5470-5725 MHz ranges, excluding the 5600-5650 MHz range.

The EUT is a Slave Device without Radar Detection.

The highest power level within these bands is 19.67 dBm EIRP in the 5250-5350 MHz band and 21.02 dBm EIRP in the 5470-5725 MHz band.

The only antenna assembly utilized with the EUT consists of two antennas with respective gains of 3.5 dBi and 5.3 dBi in the 5250-5350 MHz band and 3.8 dBi and 5.3 dBi in the 5470-5725 MHz band.

Two antennas are utilized to meet the diversity and MIMO operational requirements.

The rated output power of the Master unit is > 23dBm (EIRP). Therefore the required interference threshold level is -64 dBm. After correction for procedural adjustments, the required radiated threshold at the antenna port is $-64 + 1 = -63$ dBm.

The calibrated radiated DFS Detection Threshold level is set to -64 dBm. The tested level is lower than the required level hence it provides a margin to the limit.

The EUT uses two transmitter/receiver chains, each connected to an antenna to perform radiated tests.

WLAN traffic that meets or exceeds the minimum required loading was generated by transferring a data stream from the Master Device to the Slave Device using iPerf version 2.0.5 software package.

TPC is not required since the maximum EIRP is less than 500 mW (27 dBm).

The EUT utilizes the 802.11ac architecture. Three nominal channel bandwidths are implemented: 20 MHz, 40 MHz and 80 MHz.

The software installed in the EUT is revision 14.2.201.151.

The software installed in the access point is AP3G2-K9W7-M Version 15.2(4)JB4.

UNIFORM CHANNEL SPREADING

This is requirement not applicable to Slave Devices.

OVERVIEW OF MASTER DEVICE WITH RESPECT TO §15.407 (h) REQUIREMENTS

The Master Device is a Cisco Access Point, FCC ID: LDK102087. The minimum antenna gain for the Master Device is 6 dBi.

The rated output power of the Master unit is $> 23\text{dBm}$ (EIRP). Therefore the required interference threshold level is -64 dBm . After correction for procedural adjustments, the required radiated threshold at the antenna port is $-64 + 1 = -63\text{ dBm}$.

The calibrated radiated DFS Detection Threshold level is set to -64 dBm . The tested level is lower than the required level hence it provides a margin to the limit.

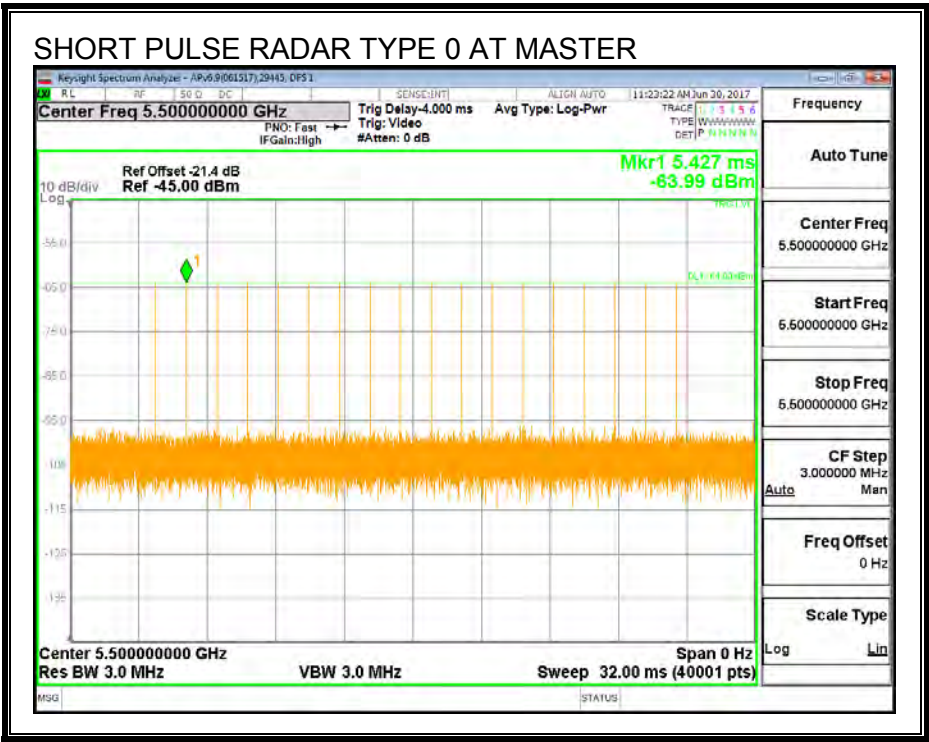
12.2. RESULTS FOR 20 MHz BANDWIDTH

12.2.1. TEST CHANNEL

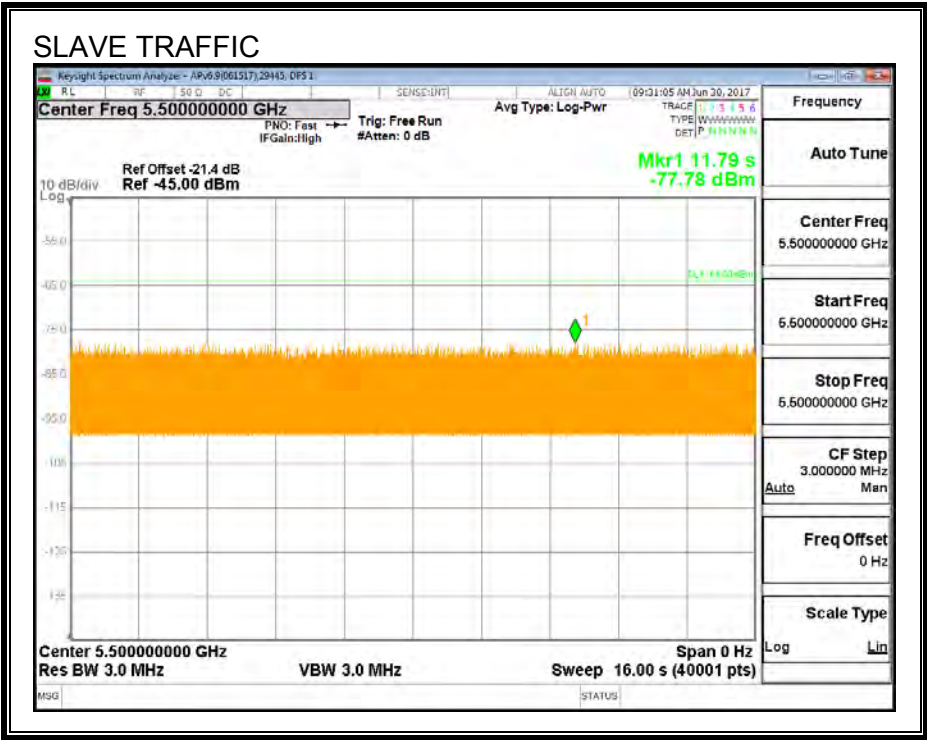
All tests were performed at a channel center frequency of 5500 MHz.

12.2.2. RADAR WAVEFORM AND TRAFFIC

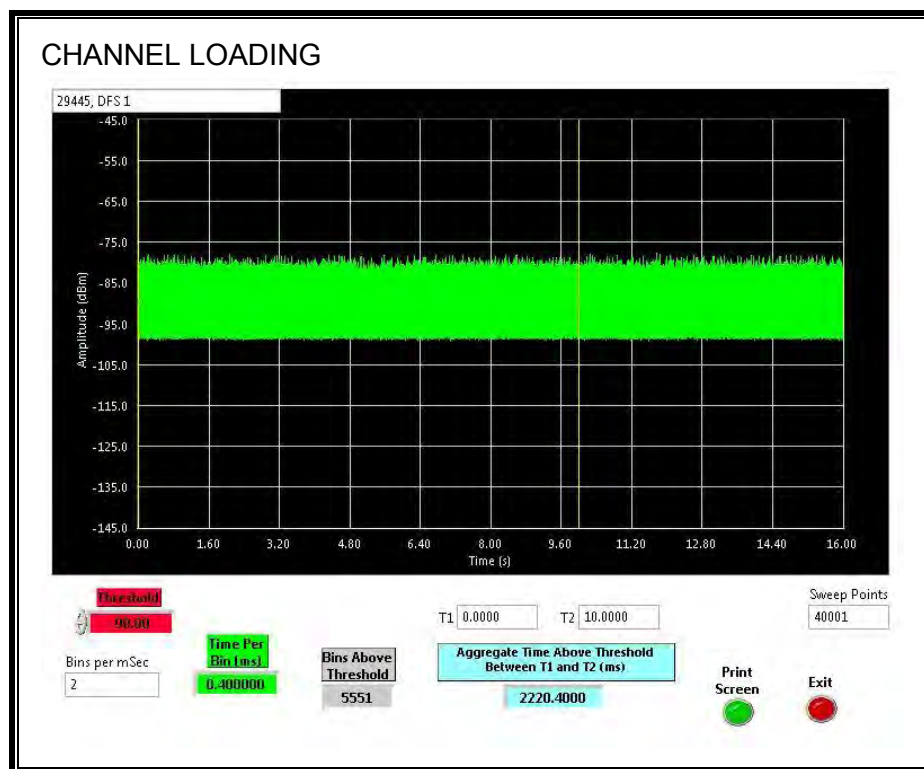
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 22.2%

12.2.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

12.2.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =
(Number of analyzer bins showing transmission) * (dwell time per bin)

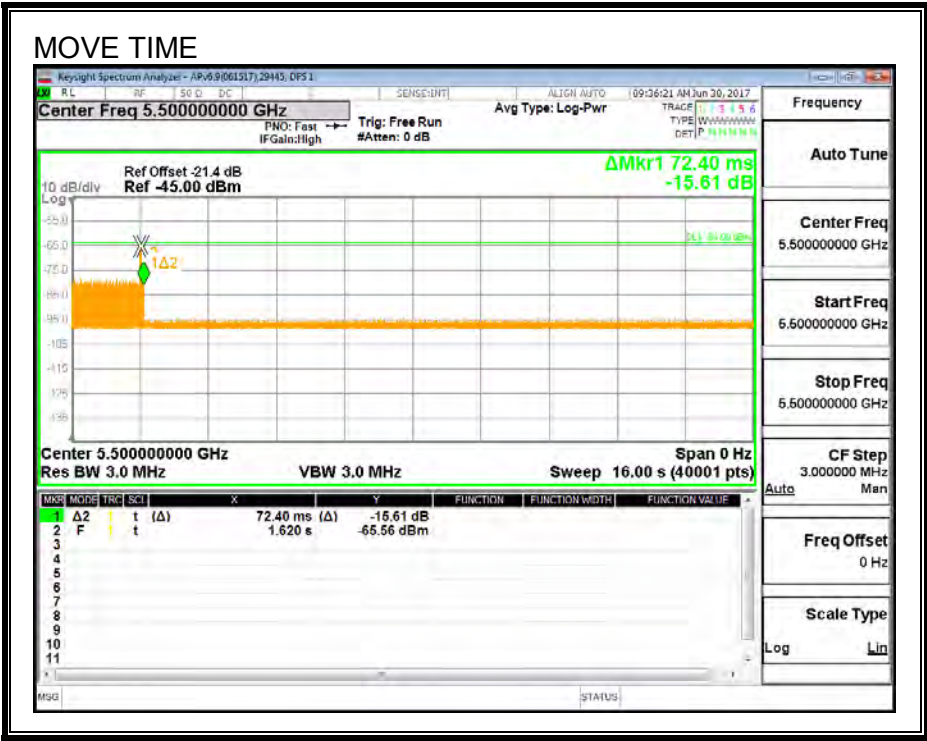
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

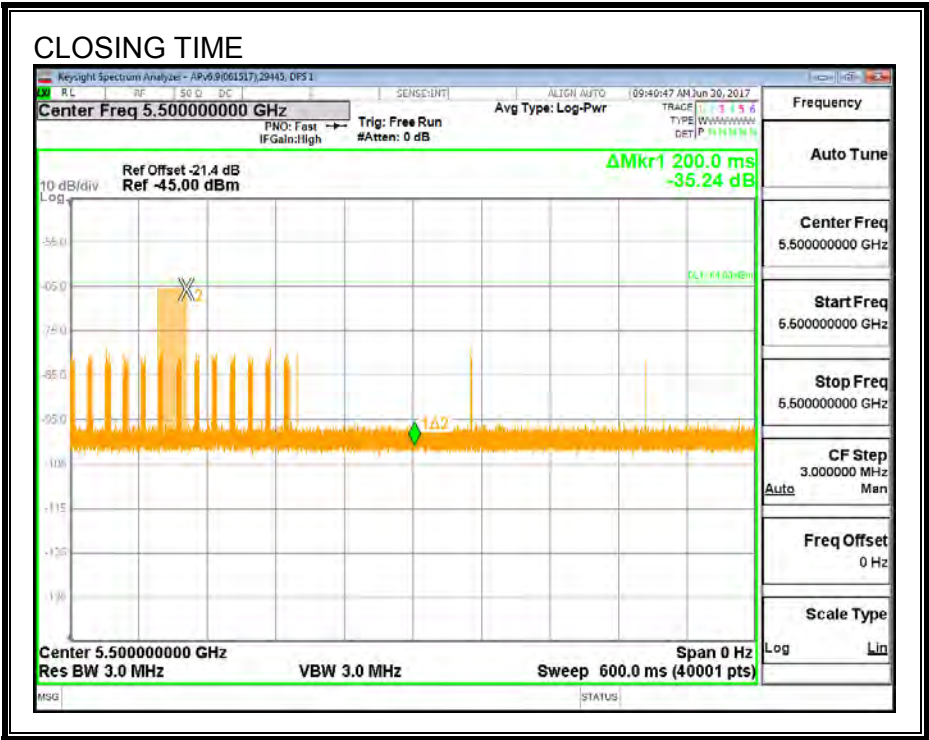
Channel Move Time (sec)	Limit (sec)
0.0724	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
0.0	60

MOVE TIME



CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



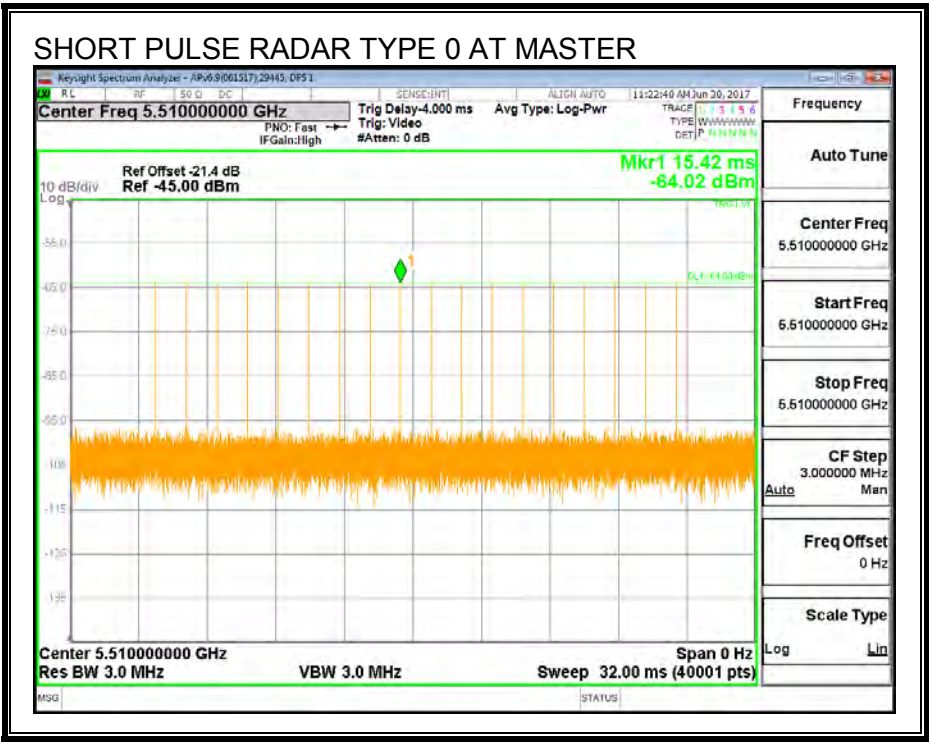
12.3. RESULTS FOR 40 MHz BANDWIDTH

12.3.1. TEST CHANNEL

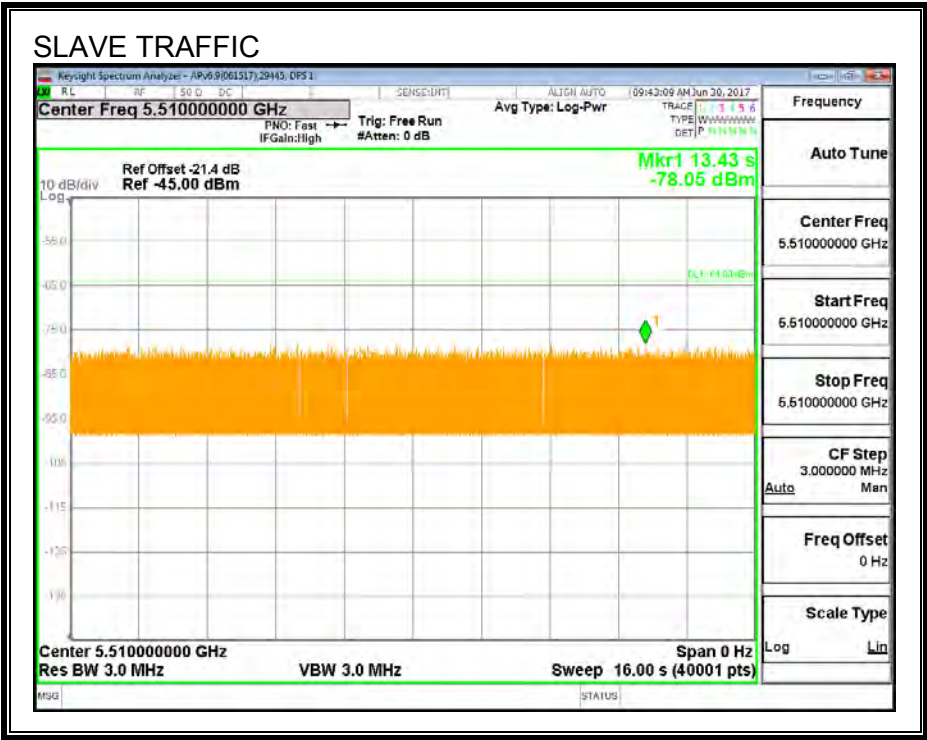
All tests were performed at a channel center frequency of 5510 MHz.

12.3.2. RADAR WAVEFORM AND TRAFFIC

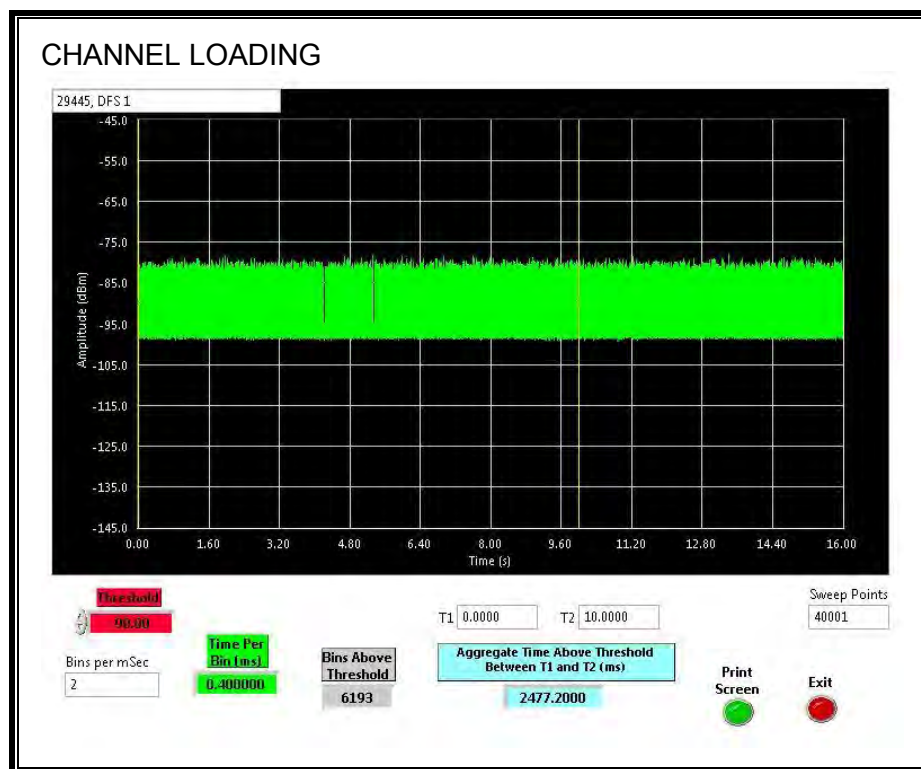
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 24.77%

12.3.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

12.3.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =
(Number of analyzer bins showing transmission) * (dwell time per bin)

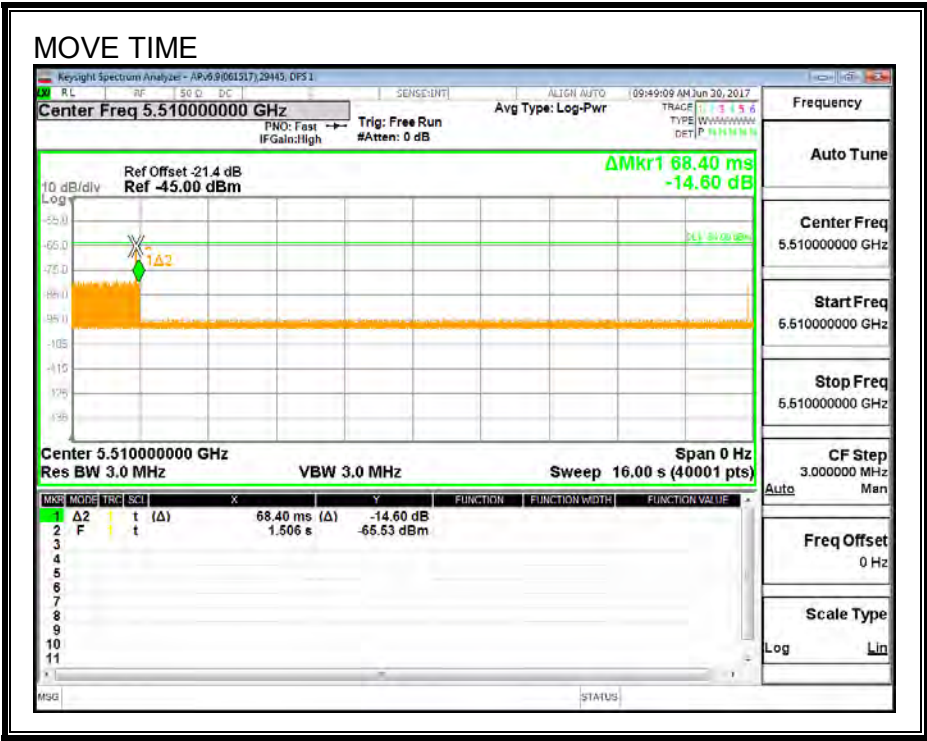
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

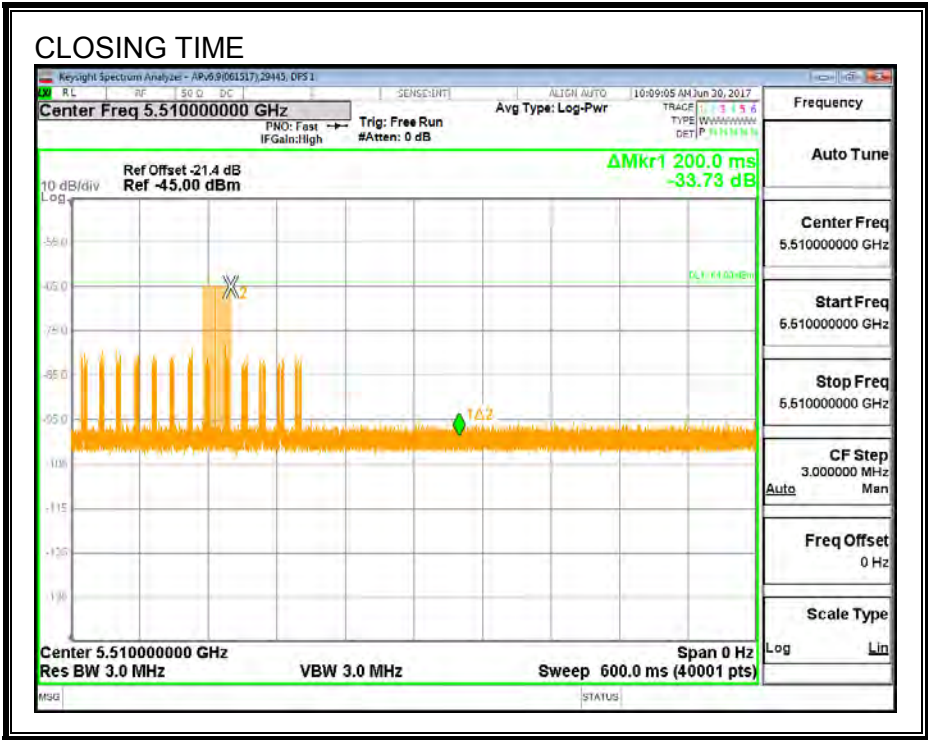
Channel Move Time (sec)	Limit (sec)
0.0684	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
0.0	60

MOVE TIME



CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



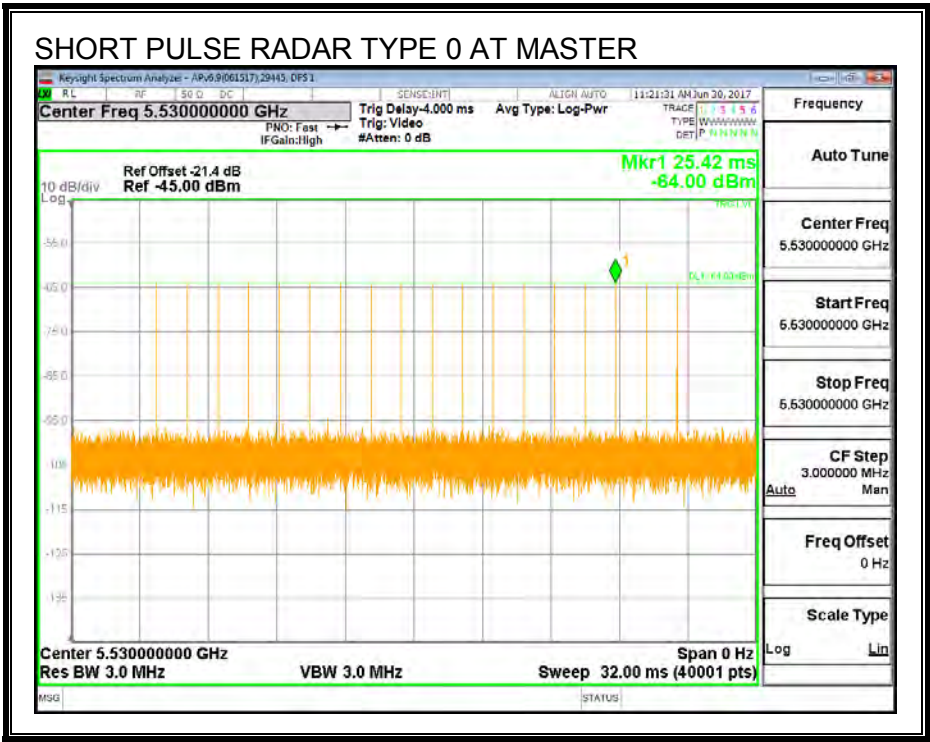
12.4. RESULTS FOR 80 MHz BANDWIDTH

12.4.1. TEST CHANNEL

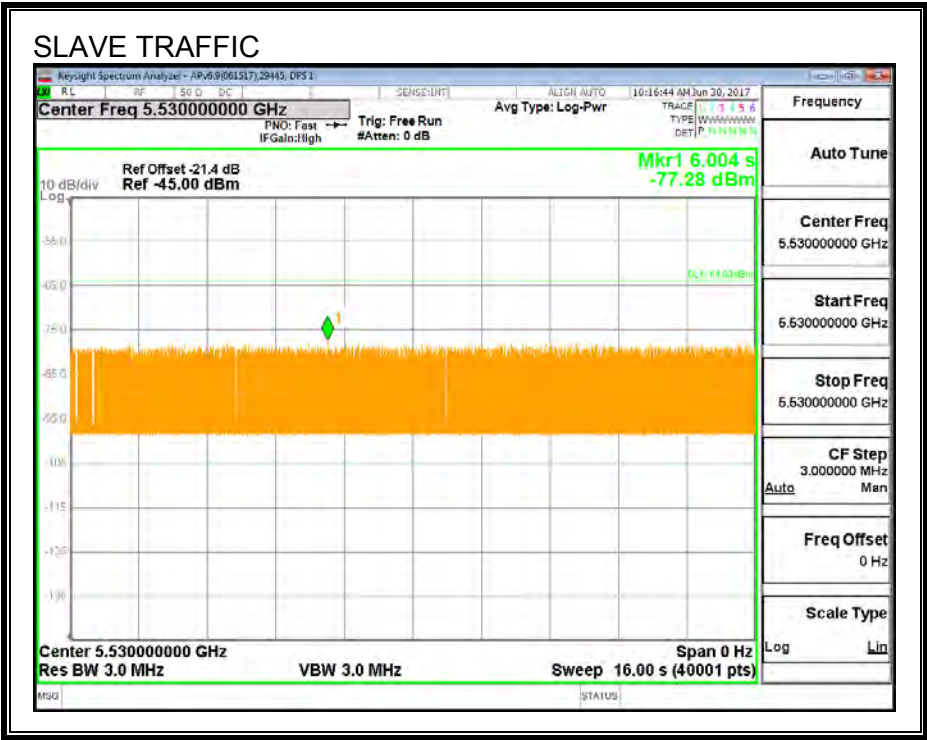
All tests were performed at a channel center frequency of 5530 MHz.

12.4.2. RADAR WAVEFORM AND TRAFFIC

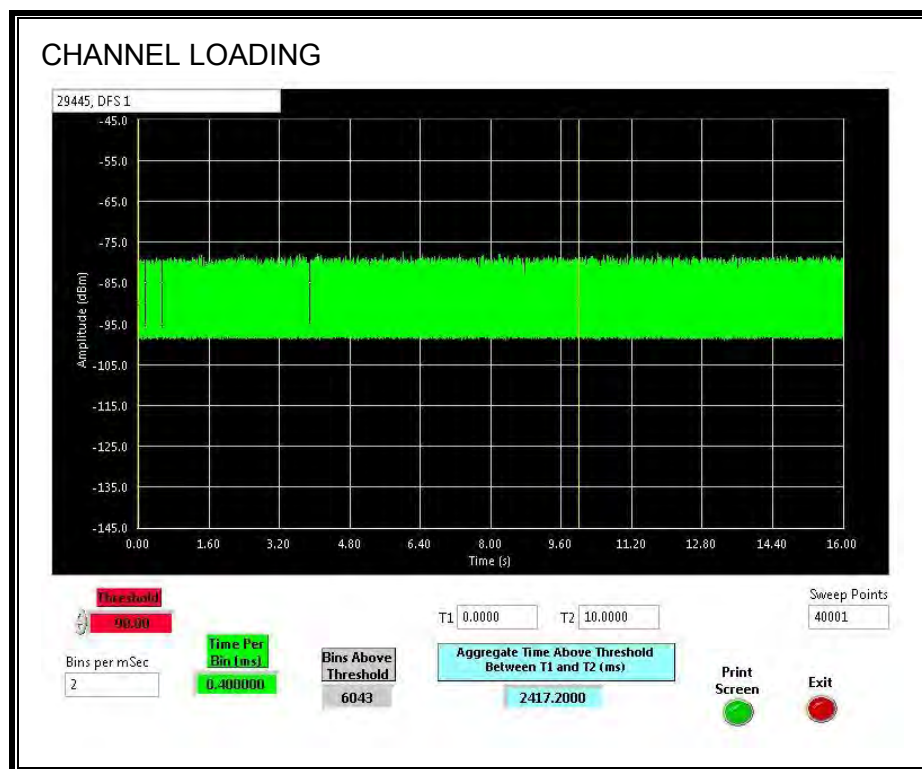
RADAR WAVEFORM



TRAFFIC



CHANNEL LOADING



The level of traffic loading on the channel by the EUT is 24.17%

12.4.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

12.4.4. MOVE AND CLOSING TIME

REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =
(Number of analyzer bins showing transmission) * (dwell time per bin)

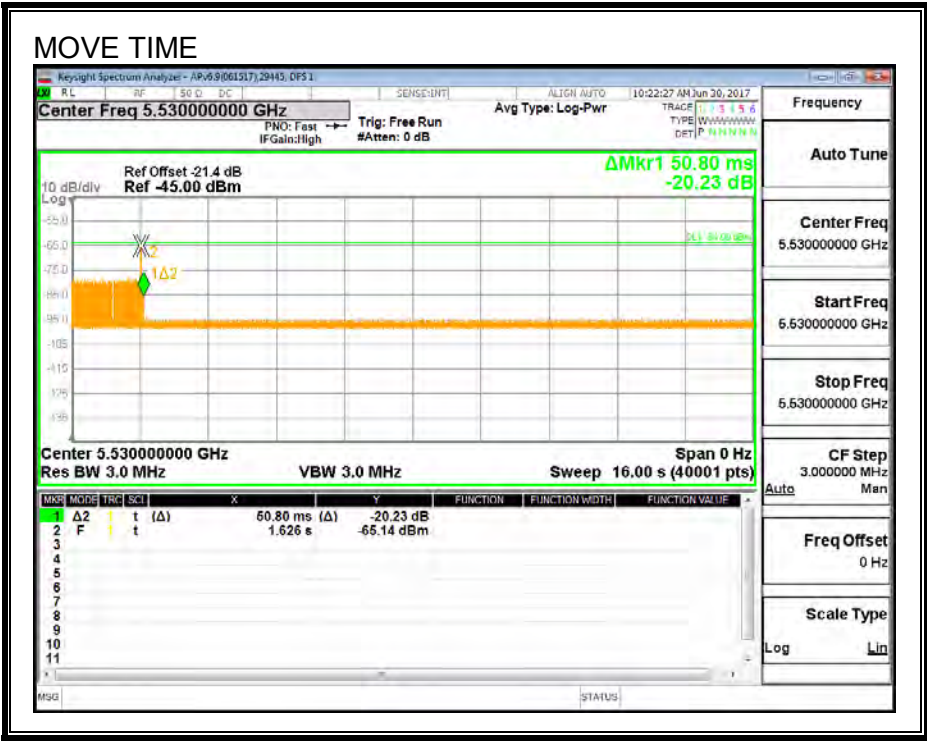
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

Channel Move Time (sec)	Limit (sec)
0.0508	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
0.0	60

MOVE TIME



CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

No transmissions are observed during the aggregate monitoring period.



12.4.5. 30-MINUTE NON-OCCUPANCY PERIOD

RESULTS

There were no EUT transmissions observed on the test channel during the 30-minute observation time. The Master Device performed a new CAC on the test channel. After no radar was detected during the CAC period the EUT associated to the Master Device and transmissions resumed on the test channel.

