8.19.2. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

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.

Test Procedure

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
2.70	4.40	6.60

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RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Mid	5775	6.60	29.40

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	11.55	11.91	14.74	29.40	-14.66

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8.19.3. PSD

LIMITS

FCC §15.407 (a) (3)

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

The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
2.70	4.40	6.60

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RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	PSD Limit (dBm)
Mid	5775	6.60	29.40

Duty Cycle CF (dB)	0.30	**Included in Calculations of Corr'd PSD**

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Mid	5775	-6.418	-6.259	-3.03	29.40	-32.43

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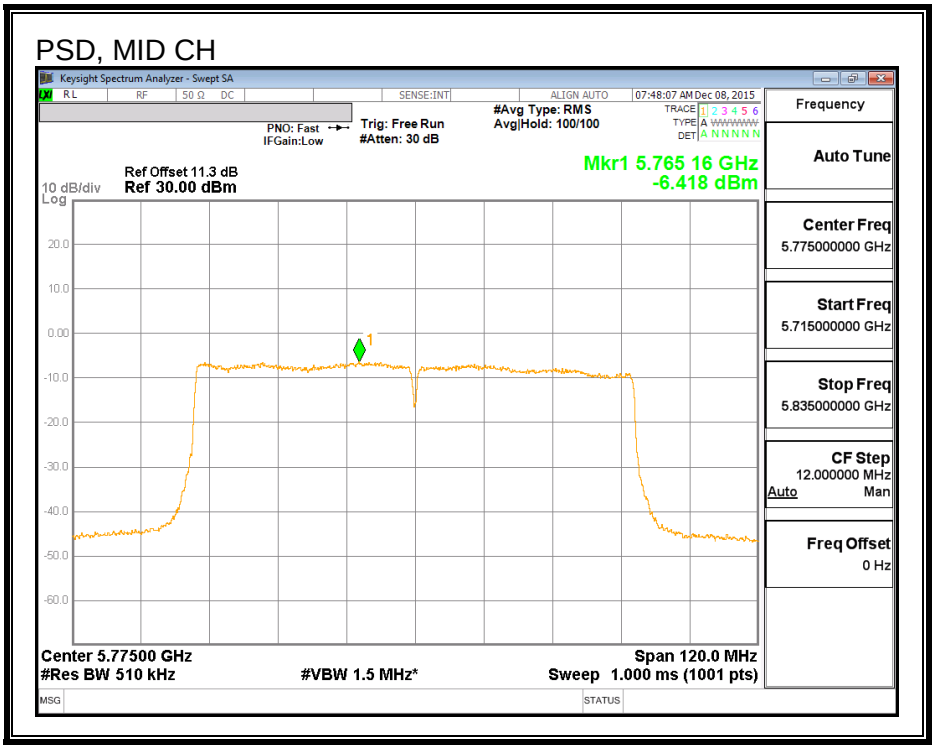
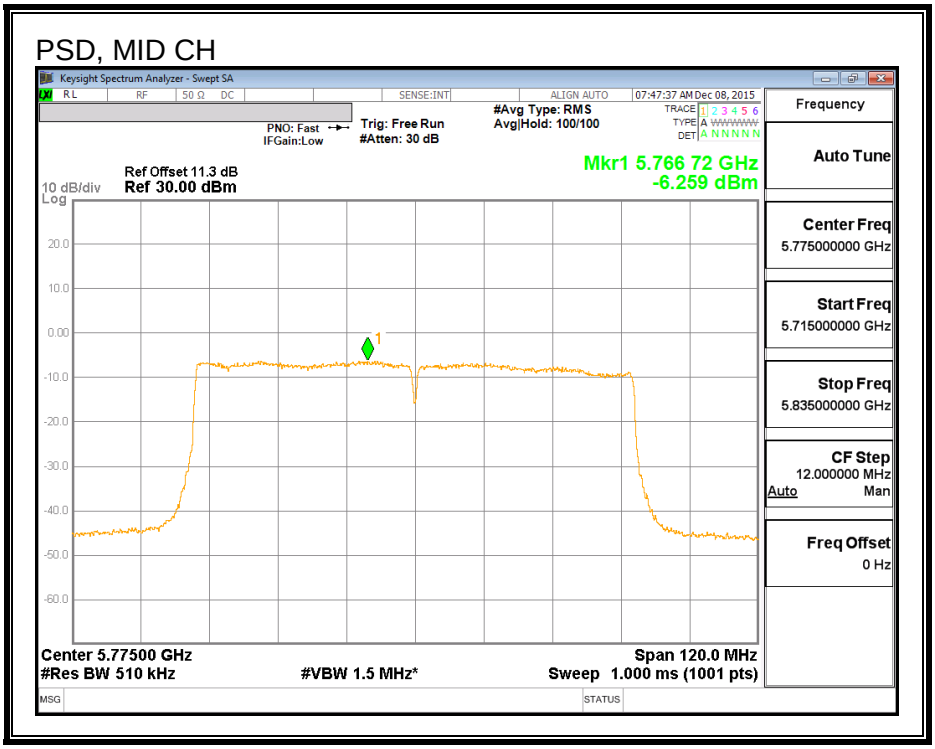
PSD, CHAIN 0



PSD, CHAIN 2



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8.20. 802.11ac VHT80 3TX CDD MODE IN THE 5.8 GHz BAND

8.20.1. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

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

RESULTS

Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	6 dB BW Chain 2 (MHz)	Minimum Limit (MHz)
Mid	5775	75.35	75.35	75.79	0.5

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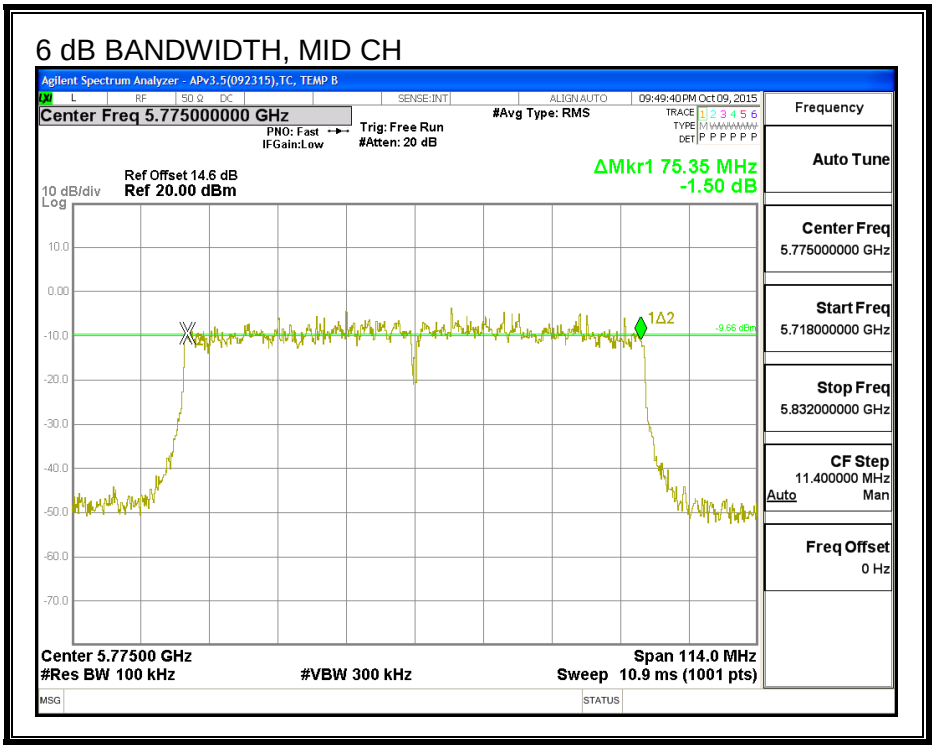
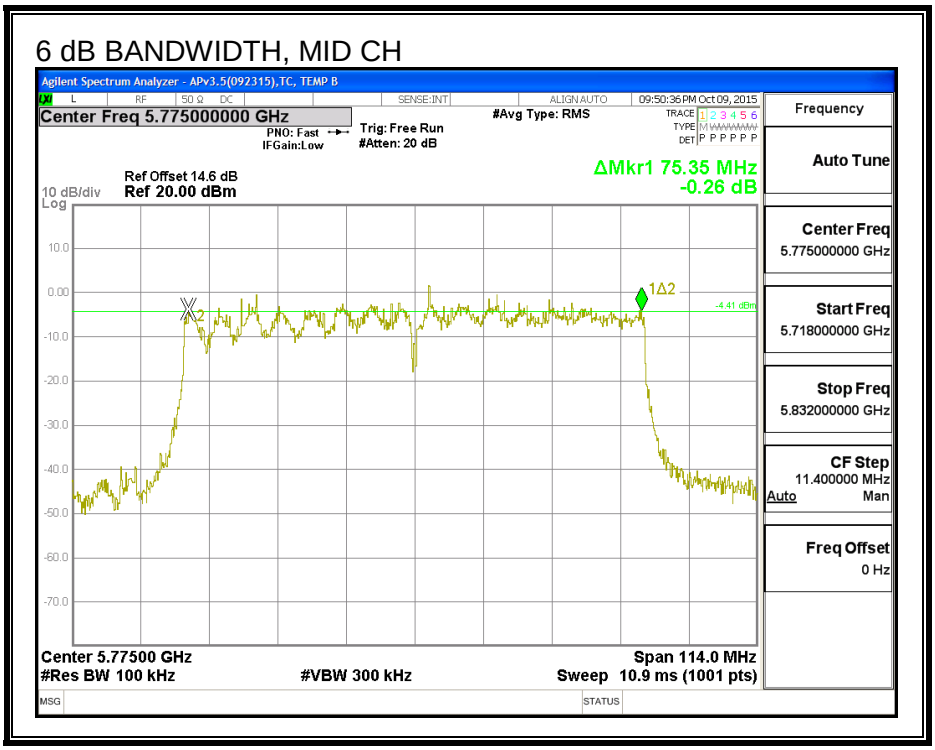
6 dB BANDWIDTH, CHAIN 0



6 dB BANDWIDTH, CHAIN 1



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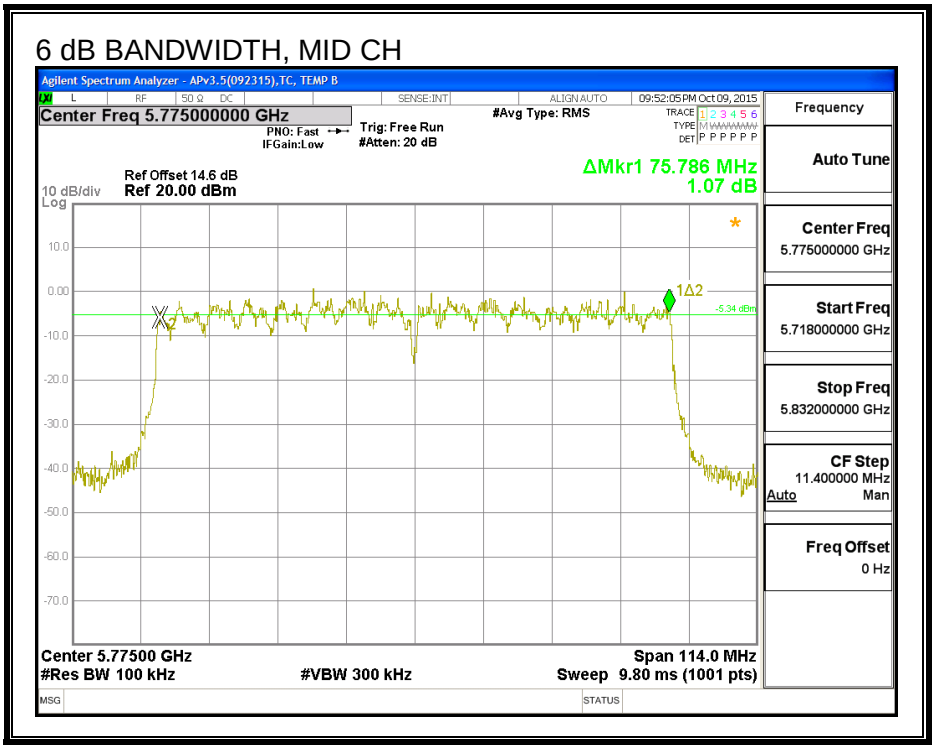
6 dB BANDWIDTH, CHAIN 2



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8.20.2. 26 dB BANDWIDTH

LIMITS

None, for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)	26 dB BW Chain 2 (MHz)
Mid	5775	81.25	80.64	81.80

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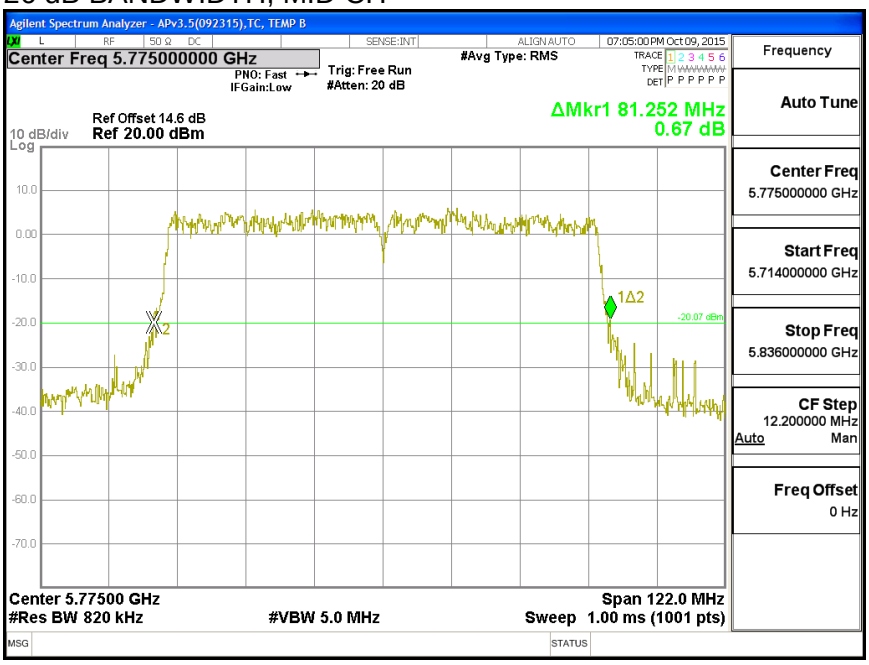
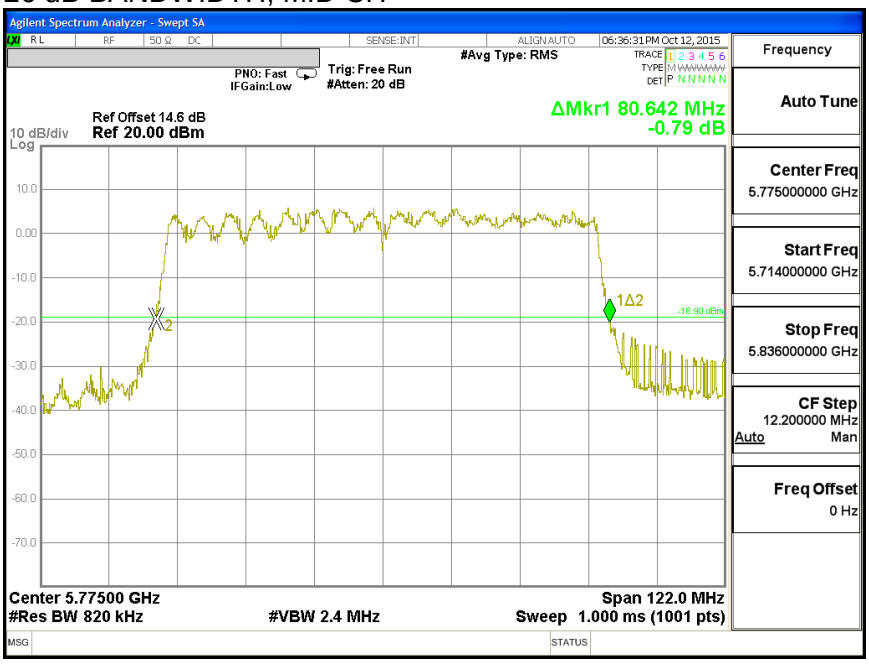
26 dB BANDWIDTH, CHAIN 0

26 dB BANDWIDTH, MID CH



26 dB BANDWIDTH, CHAIN 1

26 dB BANDWIDTH, MID CH



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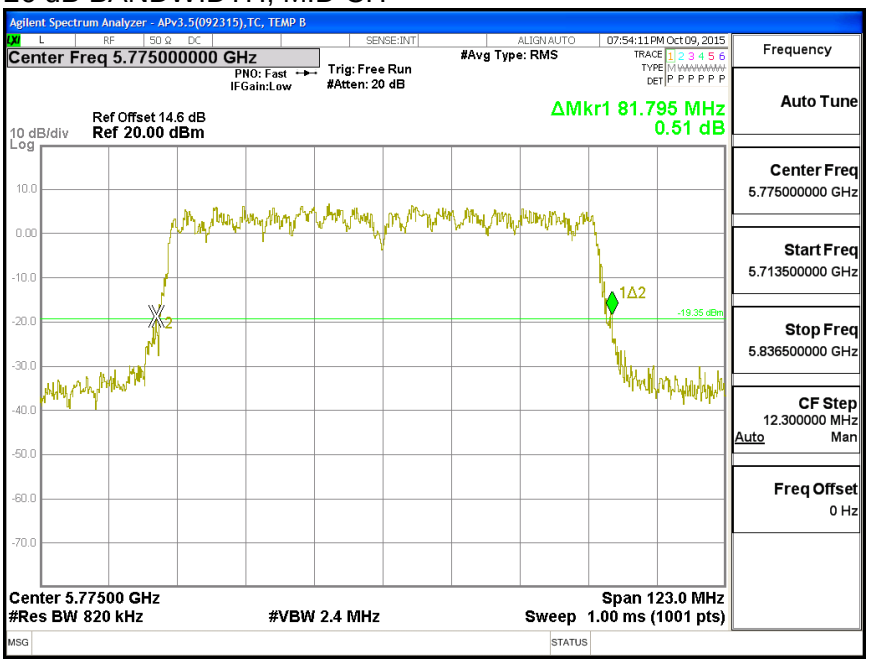
26 dB BANDWIDTH, CHAIN 2

26 dB BANDWIDTH, MID CH



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8.20.3. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)	99% BW Chain 2 (MHz)
Mid	5775	75.9600	76.0150	73.5450

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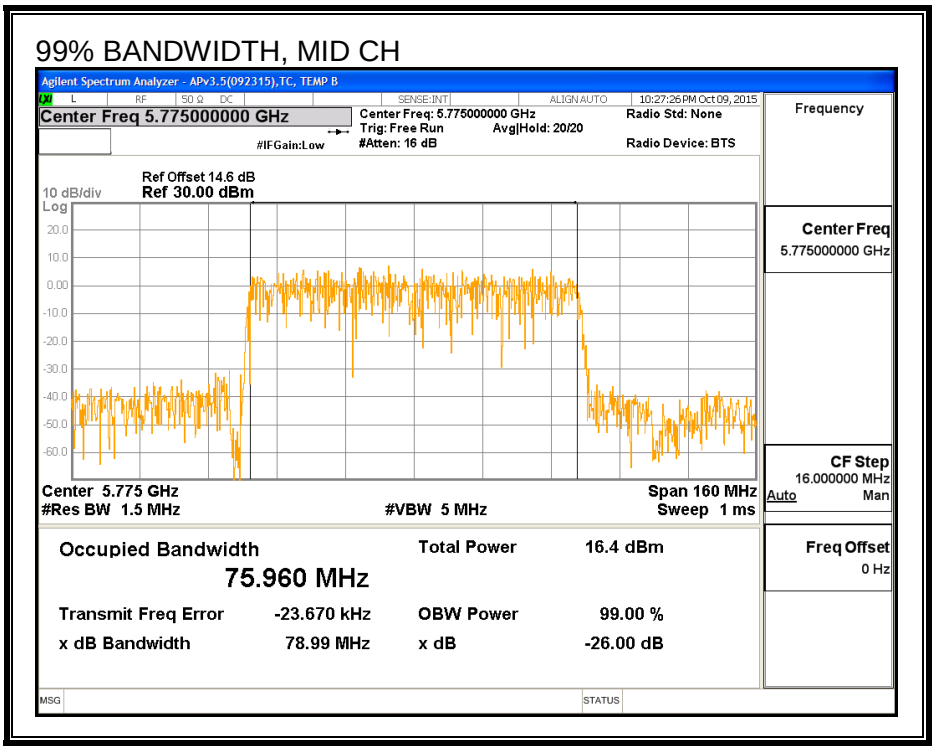
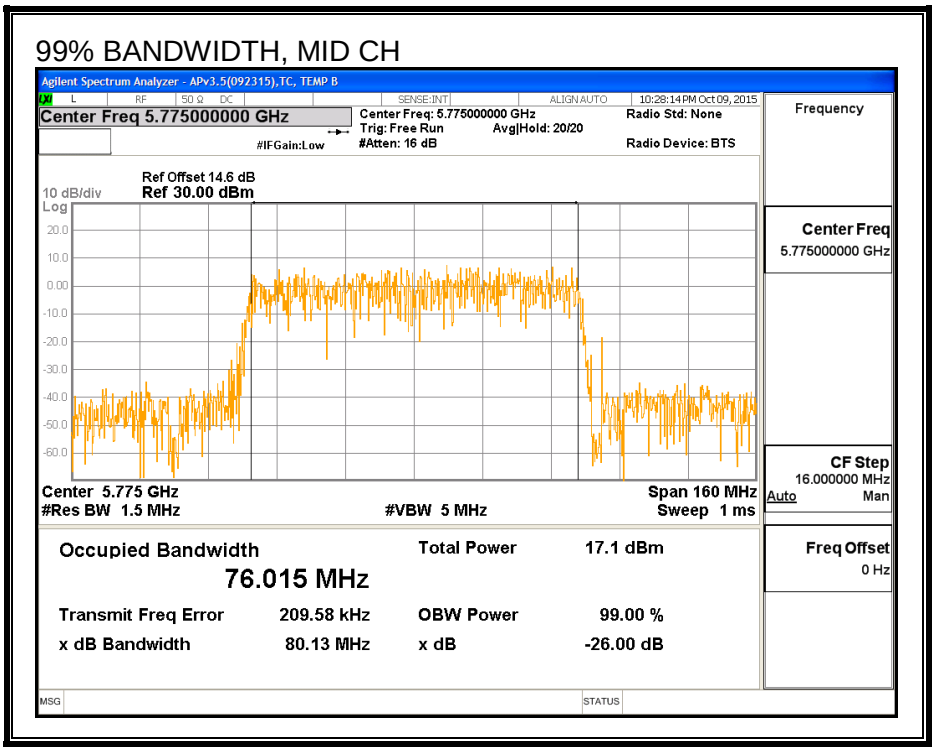
99% BANDWIDTH, CHAIN 0



99% BANDWIDTH, CHAIN 1



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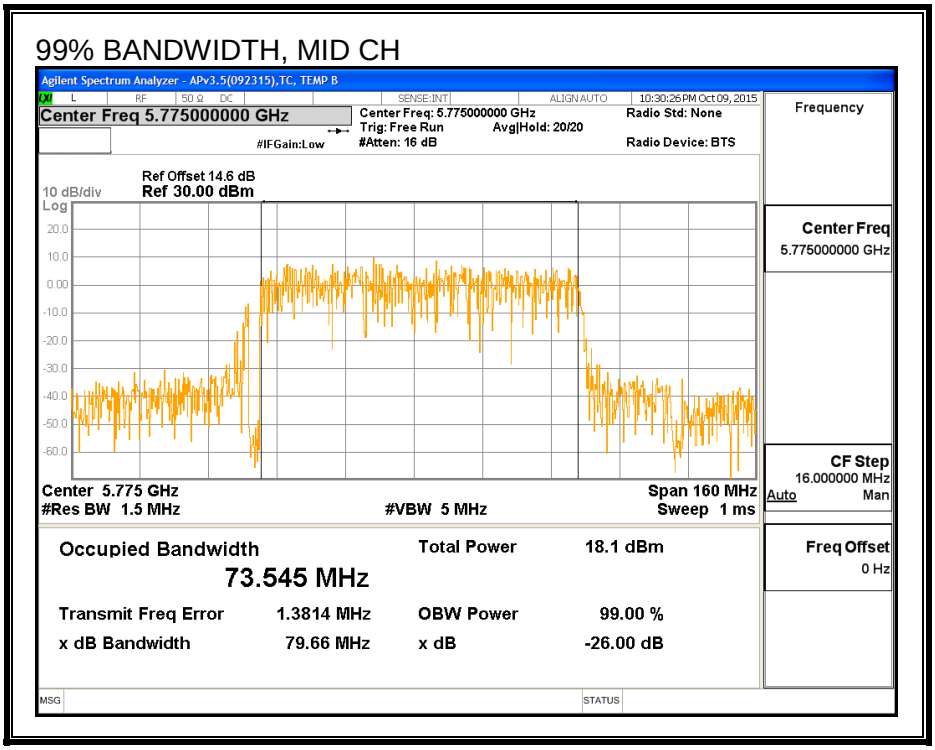
99% BANDWIDTH, CHAIN 2



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8.20.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

Test Procedure

Measurements perform using a wideband gated RF power meter.

RESULTS

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Chain 2 Power (dBm)	Total Power (dBm)
Mid	5775	13.92	13.82	13.77	18.61

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8.20.5. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

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.

Test Procedure

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
2.70	1.90	4.40	3.13

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RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Mid	5775	3.13	30.00

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	13.92	13.82	13.77	18.61	30.00	-11.39

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8.20.6. PSD

LIMITS

FCC §15.407 (a) (3)

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

The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
2.70	1.90	4.40	7.83

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RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	PSD Limit (dBm)
Mid	5775	7.83	28.17

Duty Cycle CF (dB)	0.17	**Included in Calculations of Corr'd PSD**

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Mid	5775	-2.27	-2.39	-2.42	2.58	28.17	-25.59

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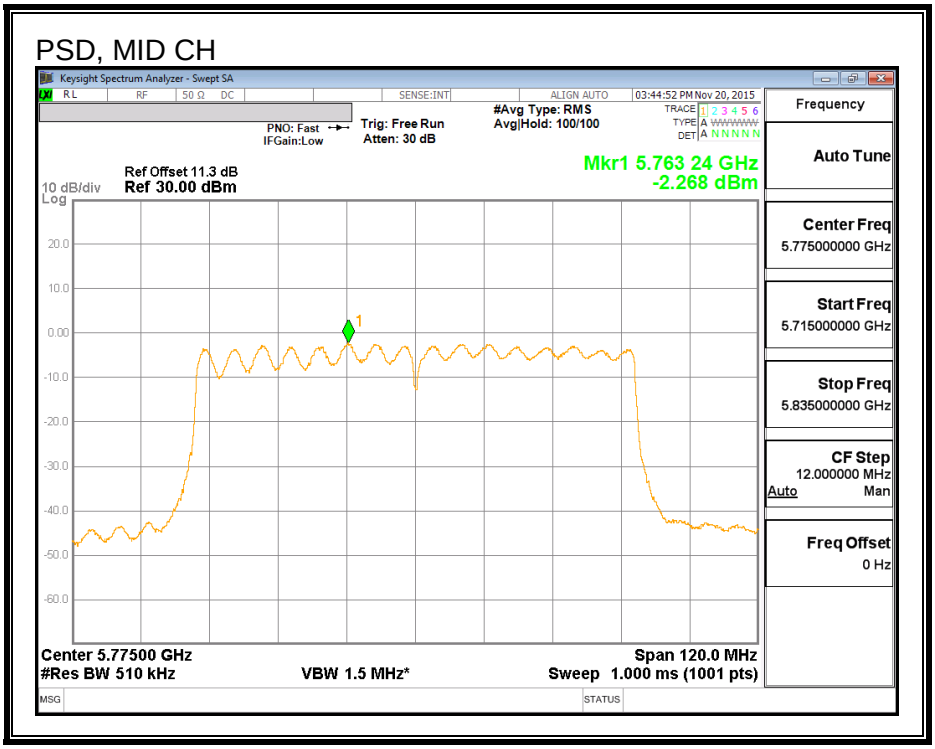
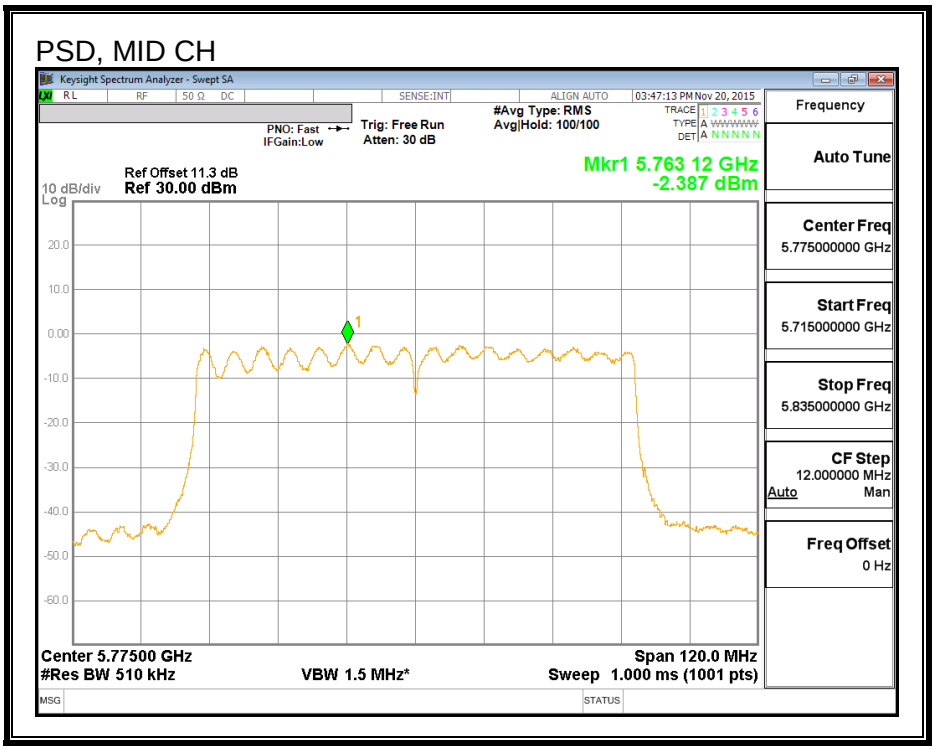
PSD, CHAIN 0



PSD, CHAIN 1



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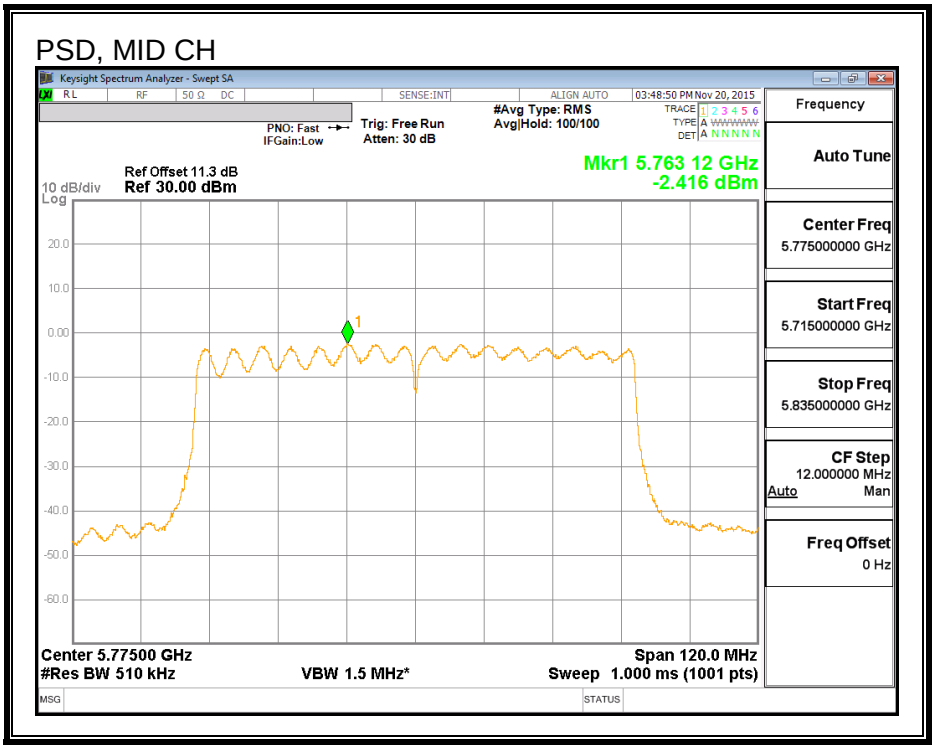
PSD, CHAIN 2



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8.21. 802.11ac VHT80 3TX STBC MODE IN THE 5.8 GHz BAND

NOTE: Covered by 802.11ac HT80 3TX CDD.

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8.22. 802.11ac VHT80 3TX BF MODE IN THE 5.8 GHz BAND

8.22.1. AVERAGE POWER

LIMITS

None; for reporting purposes only.

Test Procedure

Measurements perform using a wideband gated RF power meter.

RESULTS

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Chain 2 Power (dBm)	Total Power (dBm)
Mid	5775	10.69	10.59	10.54	15.38

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8.22.2. OUTPUT POWER

LIMITS

FCC §15.407 (a) (3)

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.

Test Procedure

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
2.70	1.90	4.40	7.83

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RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Mid	5775	7.83	28.17

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	10.69	10.59	10.54	15.38	28.17	-12.79

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8.22.3. PSD

LIMITS

FCC §15.407 (a) (3)

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

The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
2.70	1.90	4.40	7.83

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RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	PSD Limit (dBm)
Mid	5775	7.83	28.17

Duty Cycle CF (dB)	0.27	**Included in Calculations of Corr'd PSD**

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Mid	5775	-7.13	-7.21	-7.43	-2.21	28.17	-30.38

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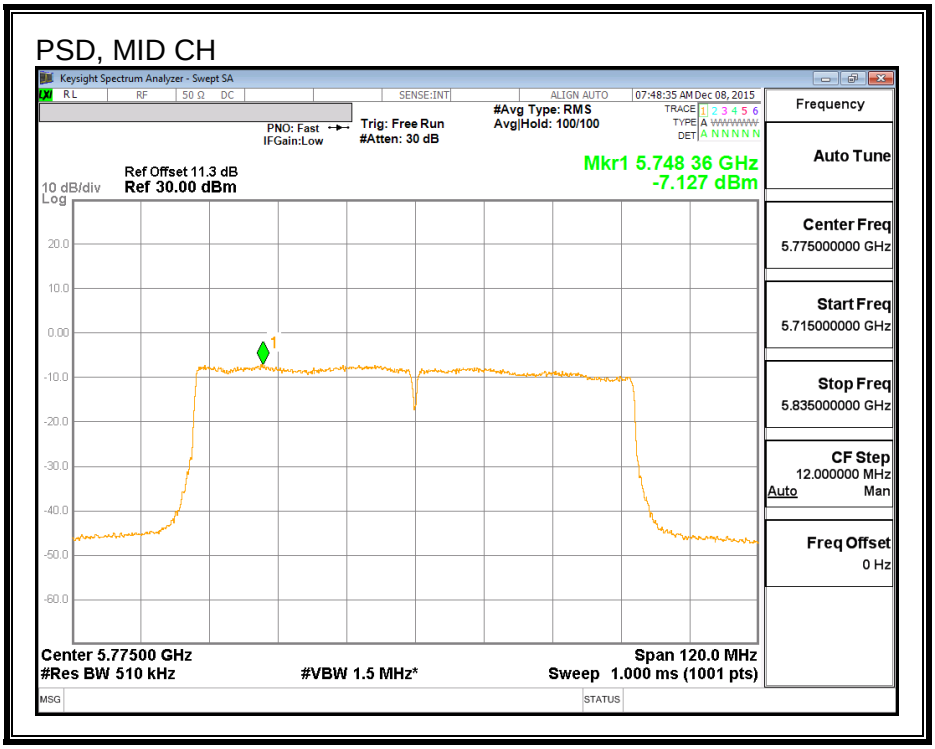
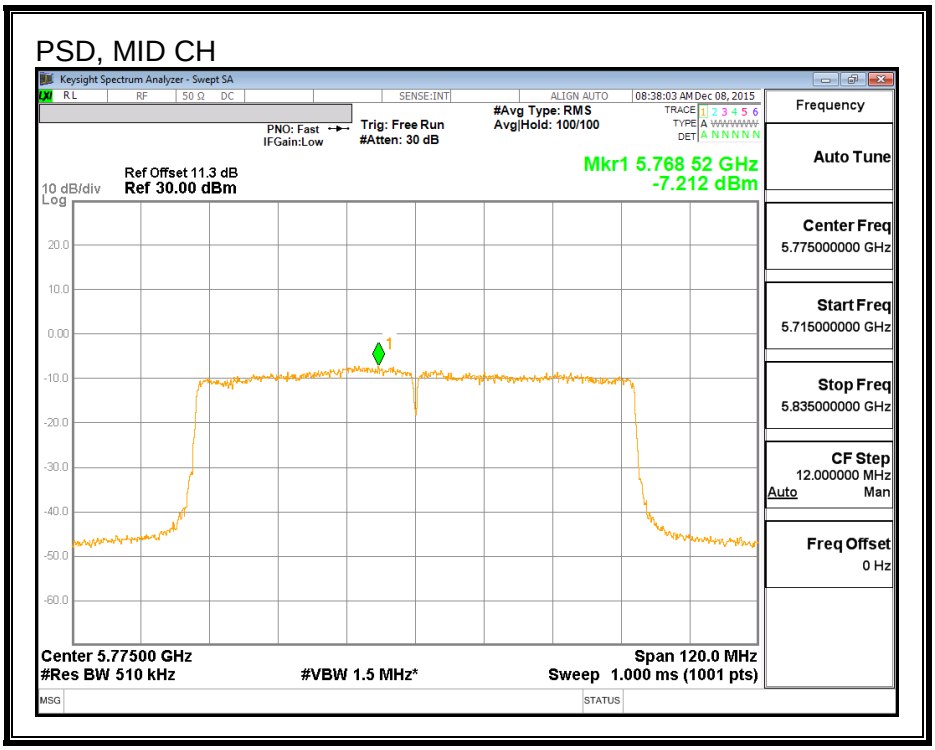
PSD, CHAIN 0



PSD, CHAIN 1



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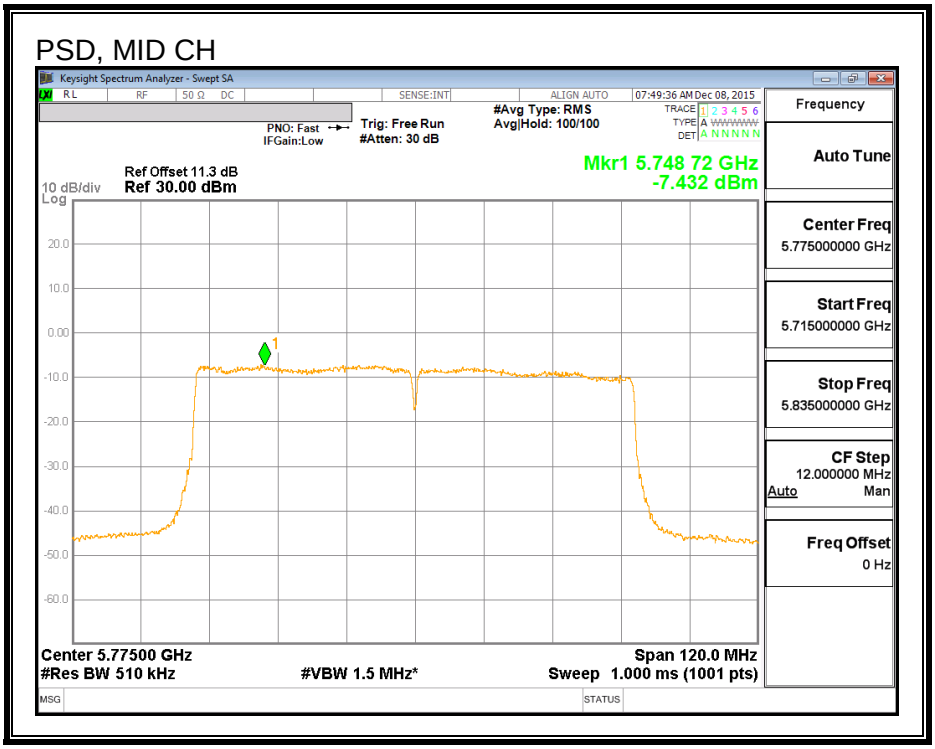
PSD, CHAIN 2



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9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

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 measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

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.

Radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

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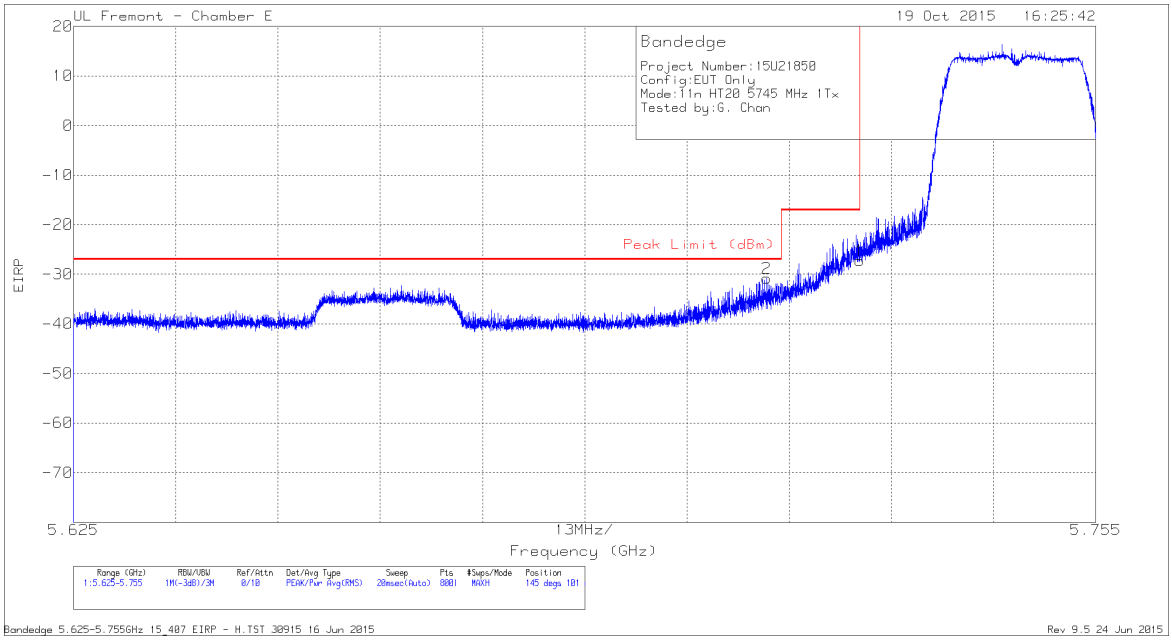
9.2. 802.11a 1TX MODE IN THE 5.8 GHz BAND

Covered by 802.11n HT20 1TX MODE IN THE 5.8 GHz BAND

9.3. 802.11n HT20 1TX MODE IN THE 5.8 GHz BAND

RESTRICTED BANDEDGE, CHAIN 0 (LOW CHANNEL)

LOW CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (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	5.713	-57.21	Pk	34.7	-20.1	11.8	-30.81	-27	-3.81	145	101	H
1	5.725	-53.63	Pk	34.7	-20.1	11.8	-27.23	-17	-10.23	145	101	H

Pk - Peak detector

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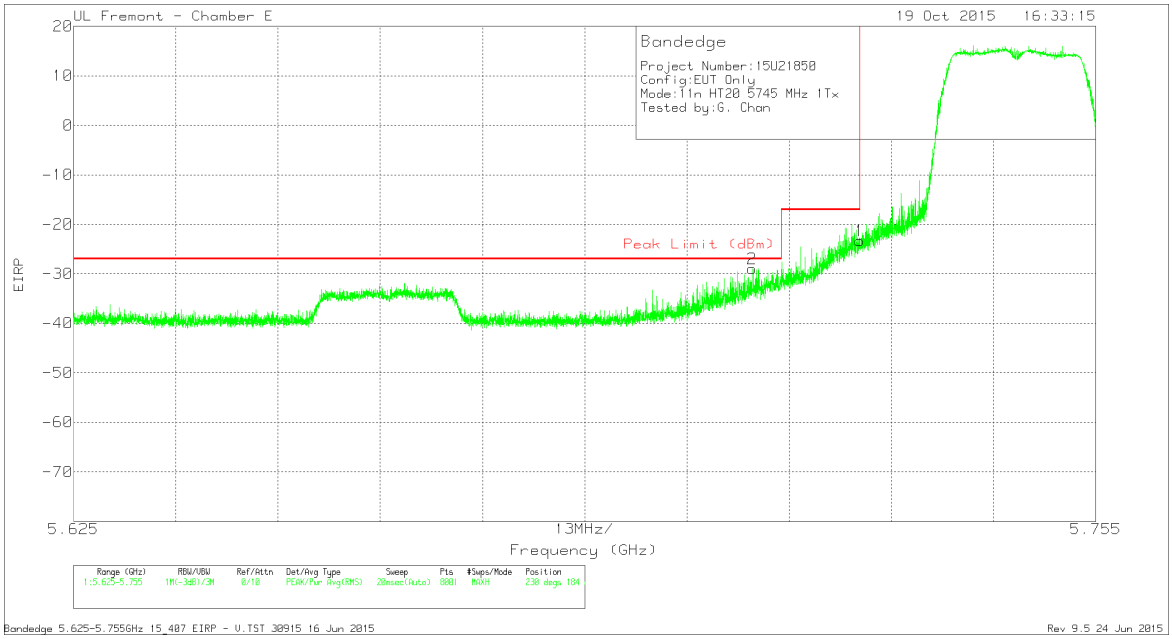
LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.711	-55.32	Pk	34.7	-20.1	11.8	-28.92	-27	-1.92	230	184	V
1	5.725	-49.77	Pk	34.7	-20.1	11.8	-23.37	-17	-6.37	230	184	V

Pk - Peak detector

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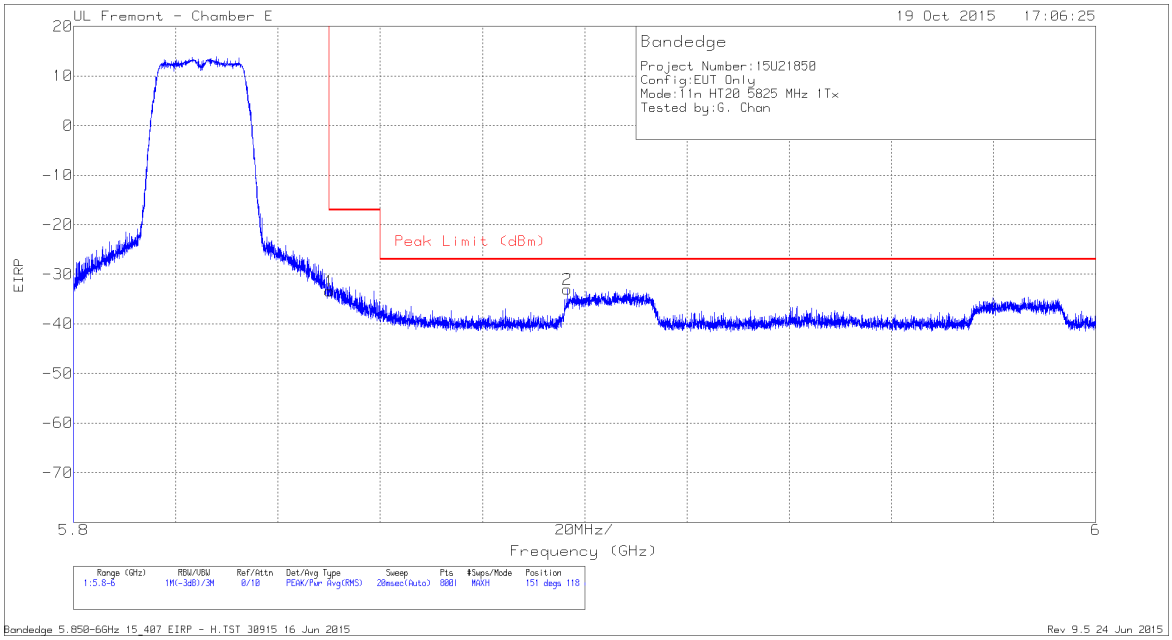
RESTRICTED BANDEDGE, CHAIN 0 (HIGH CHANNEL)

HIGH CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-59.83	Pk	34.9	-20.3	11.8	-33.43	-17	-16.43	151	118	H
2	5.897	-59.42	Pk	34.9	-20.3	11.8	-33.02	-27	-6.02	151	118	H

Pk - Peak detector

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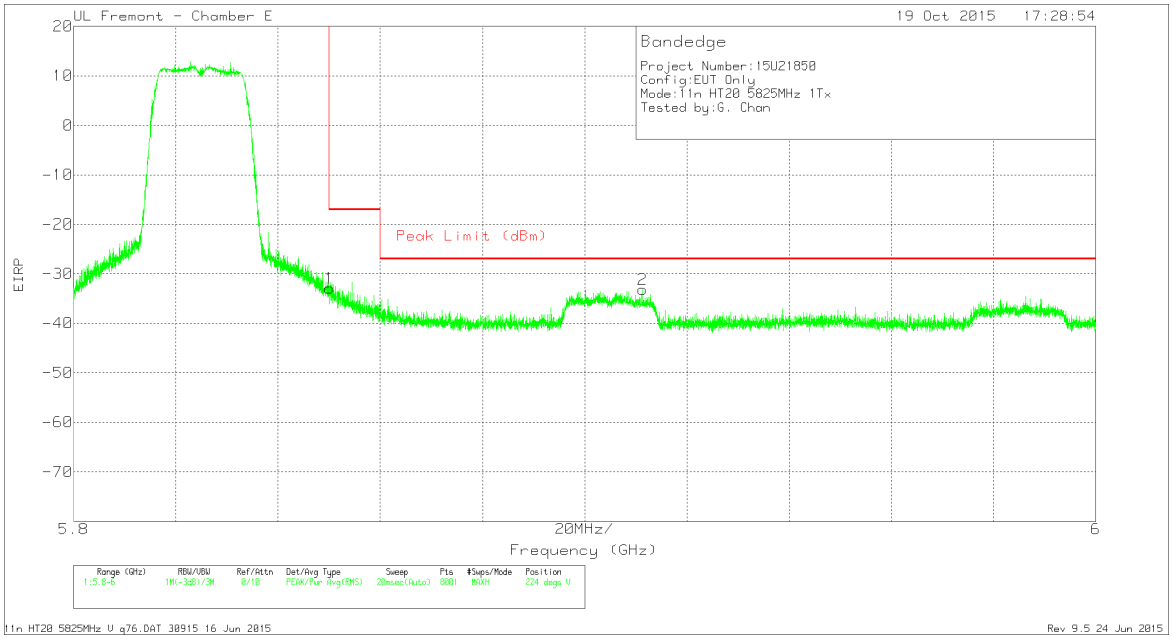
HIGH CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-59.35	Pk	34.9	-20.3	11.8	-32.95	-17	-15.95	224	166	V
2	5.911	-59.65	Pk	35	-20.3	11.8	-33.15	-27	-6.15	224	166	V

Pk - Peak detector

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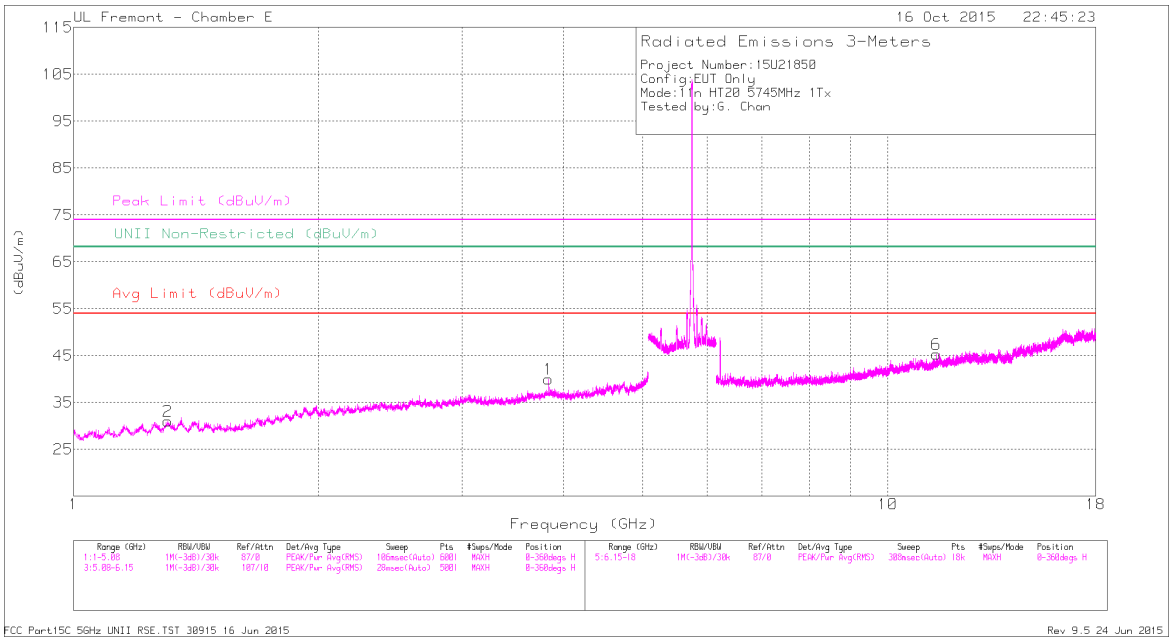
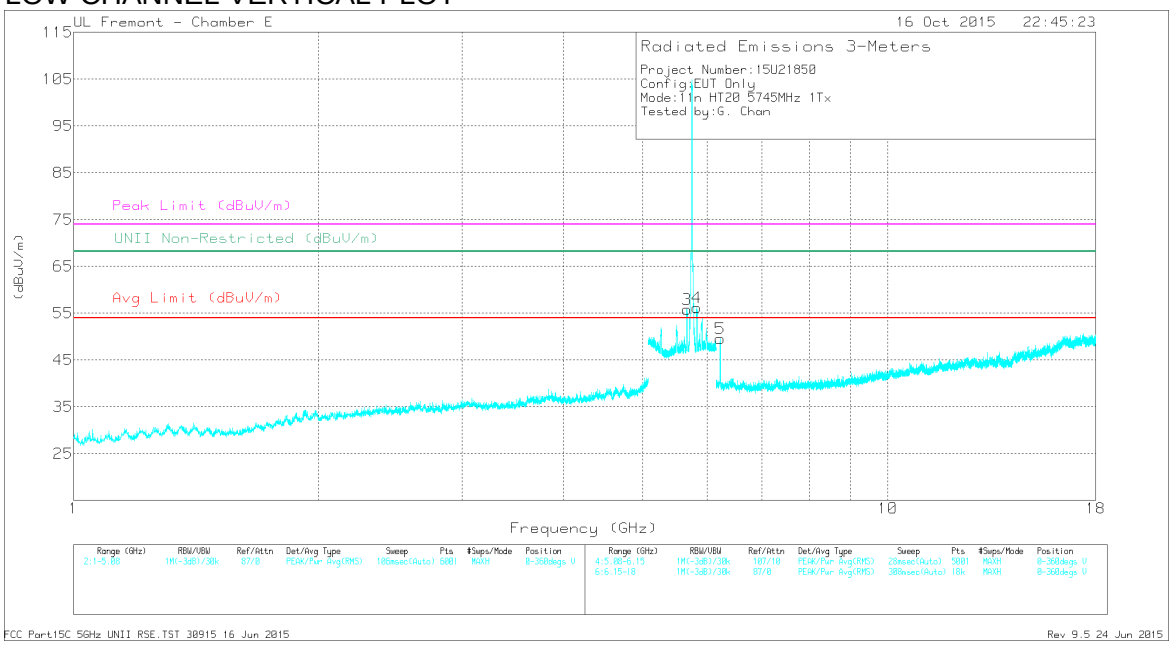
LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/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	* 3.83	42.38	PK-U	33.5	-29.9	45.98	-	-	74	-28.02	-	-	60	286	H
	* 3.83	30.34	ADR	33.5	-29.9	33.94	54	-20.06	-	-	-	-	60	286	H
6	* 1.306	45.26	PK-U	29	-35.4	38.86	-	-	74	-35.14	-	-	125	238	H
	* 1.304	33.53	ADR	29	-35.4	27.13	54	-26.87	-	-	-	-	125	238	H
1	* 11.463	36.14	PK-U	38	-23.8	50.34	-	-	74	-23.66	-	-	215	106	H
	* 11.465	25.02	ADR	38	-23.9	39.12	54	-14.88	-	-	-	-	215	106	H
3	5.666	50.31	PK-U	34.6	-19.8	65.11	-	-	-	-	68.2	-3.09	242	225	V
	5.666	40.29	ADR	34.6	-19.8	55.09	-	-	-	-	-	-	242	225	V
4	5.823	48.12	PK-U	34.9	-19.8	63.22	-	-	-	-	68.2	-4.98	235	182	V
	5.824	38.08	ADR	34.9	-19.8	53.18	-	-	-	-	-	-	235	182	V
5	6.224	44.69	PK-U	35.4	-28.1	51.99	-	-	-	-	68.2	-16.21	286	128	V
	6.224	35.23	ADR	35.4	-28	42.63	-	-	-	-	-	-	286	128	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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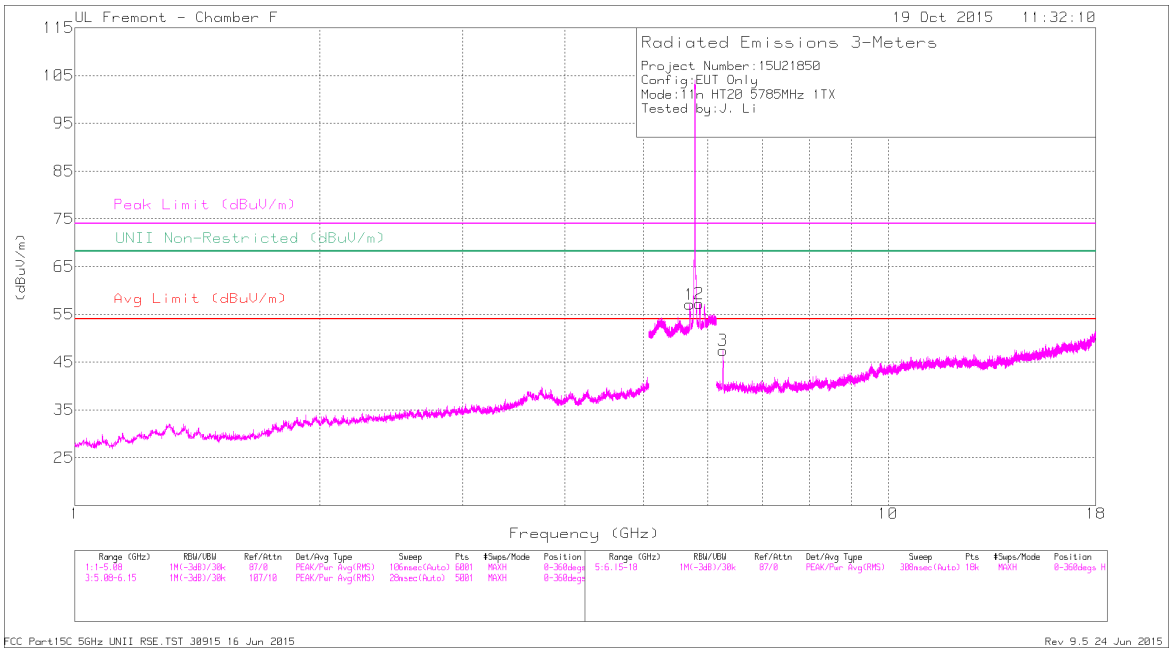
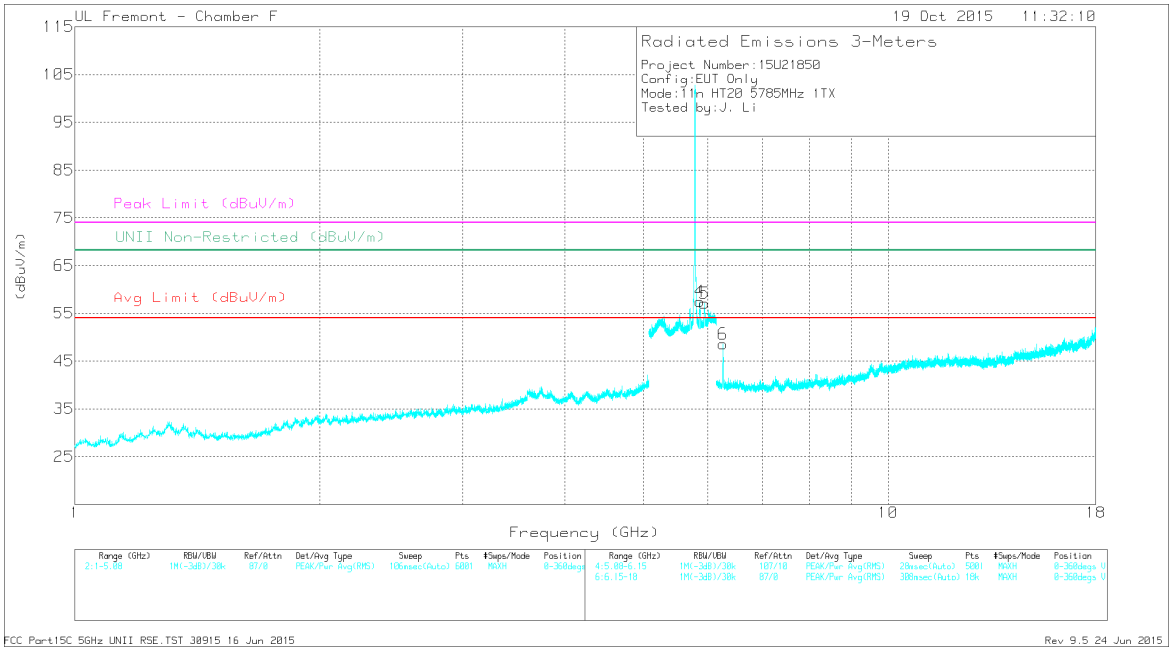
MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fltr/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	5.708	47.66	PK-U	34.8	-18.3	64.16	-	-	-	-	68.2	-4.04	183	225	H
2	5.869	48.25	PK-U	35.1	-18.7	64.65	-	-	-	-	68.2	-3.55	183	136	H
4	5.868	48.37	PK-U	35.1	-18.7	64.77	-	-	-	-	68.2	-3.43	93	258	V
5	5.944	48.79	PK-U	35.3	-18.7	65.39	-	-	-	-	68.2	-2.81	263	223	V
3	6.267	46.77	PK-U	35.7	-26.6	55.87	-	-	-	-	68.2	-12.33	133	281	H
6	6.266	46.5	PK-U	35.7	-26.6	55.6	-	-	-	-	68.2	-12.6	291	211	V

PK-U - U-NII: Maximum Peak

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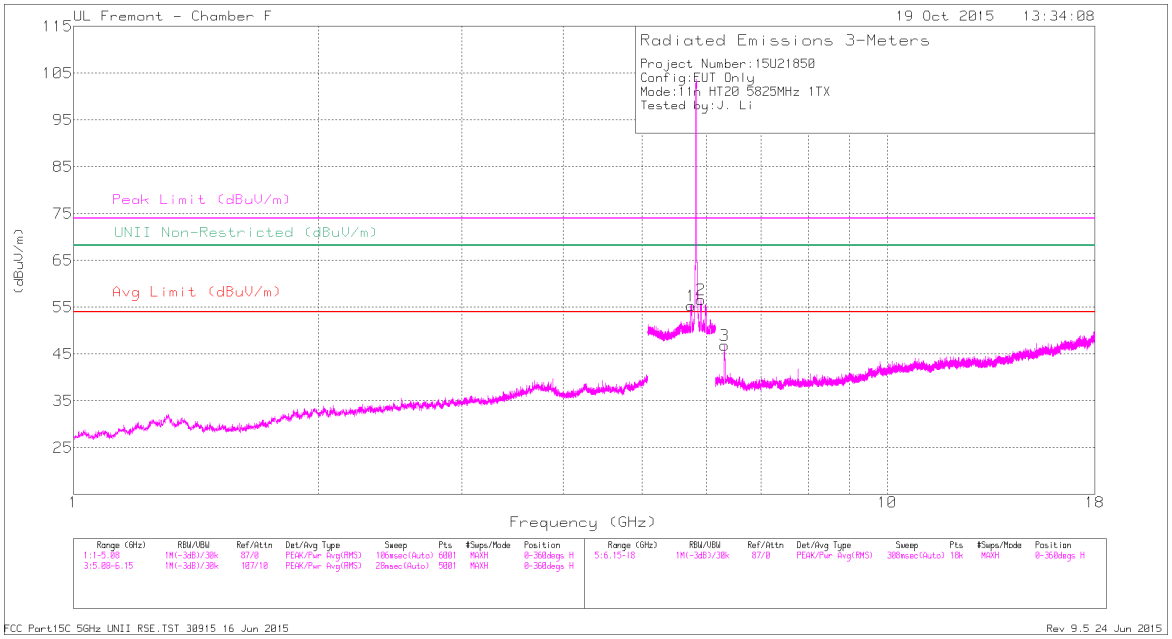
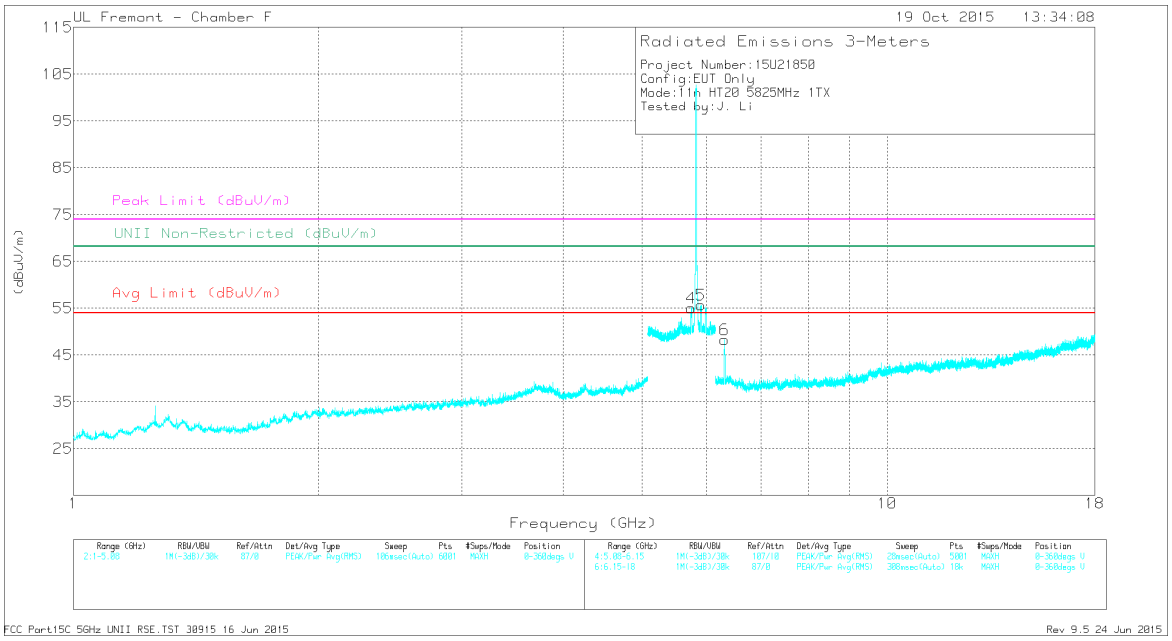
HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fltr/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	5.748	47.13	PK-U	34.9	-18.4	63.63	-	-	-	-	68.2	-4.57	174	129	H
2	5.9	48.48	PK-U	35.2	-18.7	64.98	-	-	-	-	68.2	-3.22	178	116	H
4	5.74	47.34	PK-U	34.9	-18.4	63.84	-	-	-	-	68.2	-4.36	149	299	V
5	5.901	47.93	PK-U	35.2	-18.7	64.43	-	-	-	-	68.2	-3.77	90	267	V
3	6.31	45.85	PK-U	35.7	-26.7	54.85	-	-	-	-	68.2	-13.35	133	238	H
6	6.31	47.13	PK-U	35.7	-26.7	56.13	-	-	-	-	68.2	-12.07	264	201	V

PK-U - U-NII: Maximum Peak

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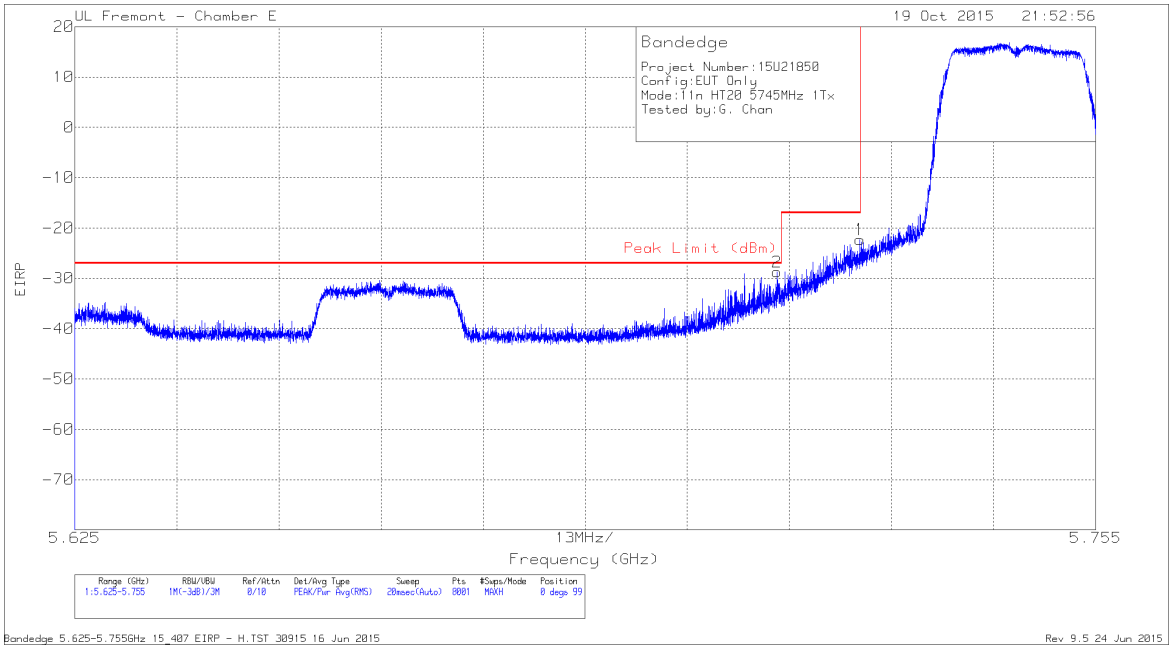
RESTRICTED BANDEDGE, CHAIN 1 (LOW CHANNEL)

LOW CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (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	5.714	-55.42	Pk	34.7	-19.8	11.8	-28.72	-27	-1.72	0	99	H
1	5.725	-48.98	Pk	34.7	-19.8	11.8	-22.28	-17	-5.28	0	99	H

Pk - Peak detector

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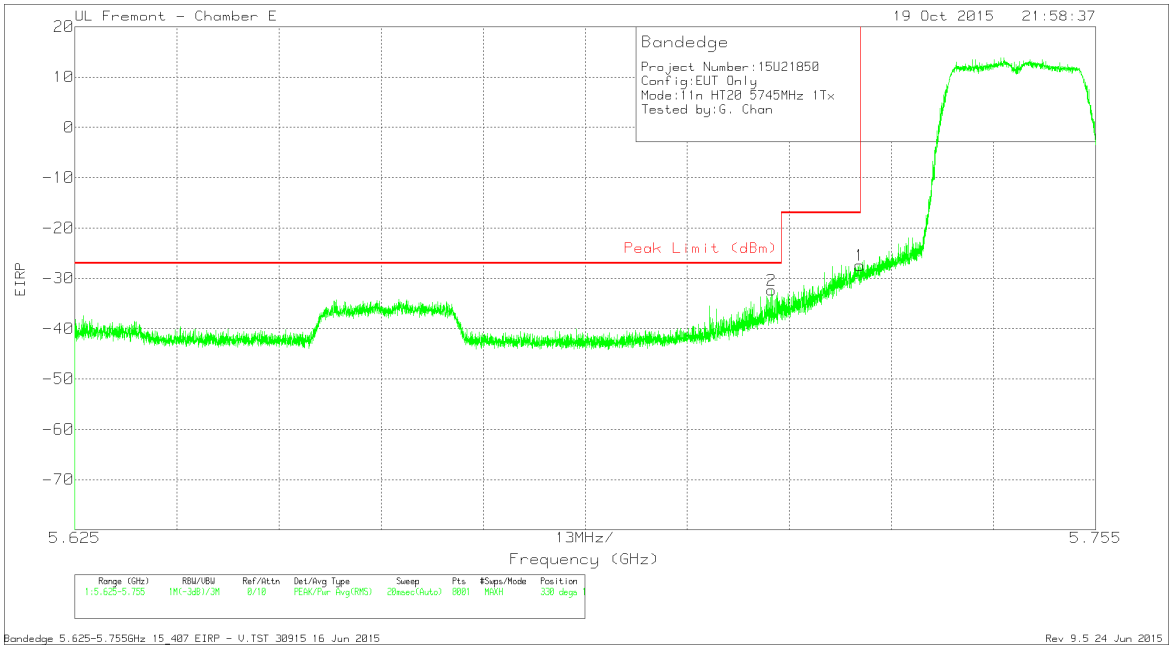
LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.714	-59.08	Pk	34.7	-19.8	11.8	-32.38	-27	-5.38	330	183	V
1	5.725	-54.15	Pk	34.7	-19.8	11.8	-27.45	-17	-10.45	330	183	V

Pk - Peak detector

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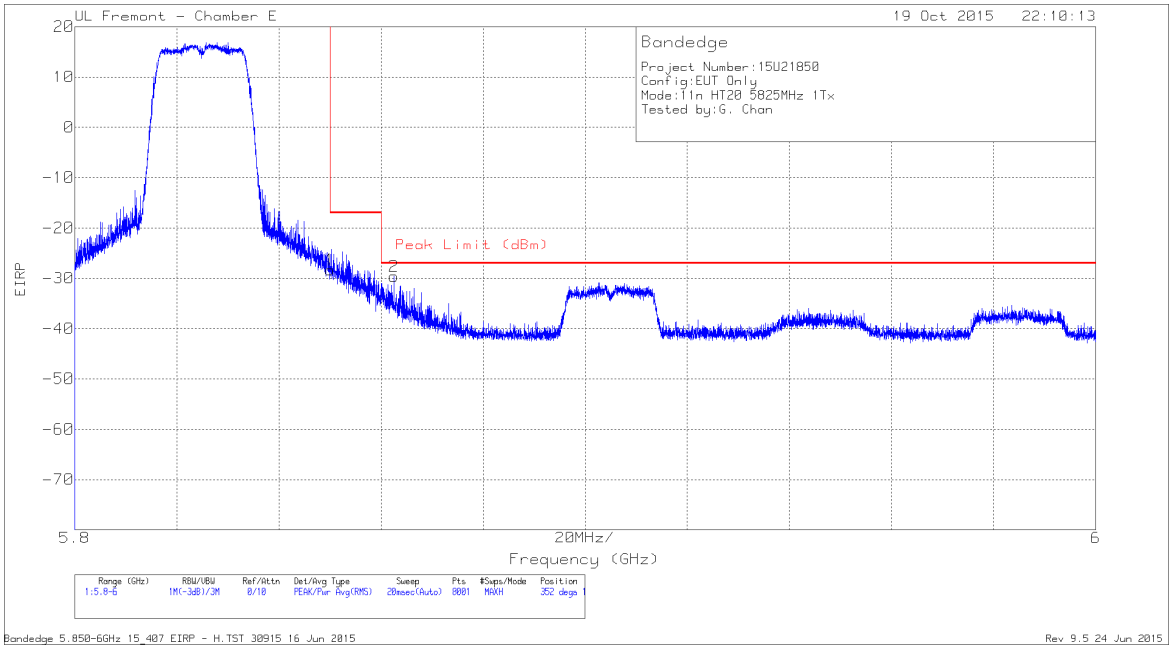
RESTRICTED BANDEDGE, CHAIN 1 (HIGH CHANNEL)

HIGH CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-55.04	Pk	34.9	-20	11.8	-28.34	-17	-11.34	352	101	H
2	5.863	-56.51	Pk	34.9	-19.8	11.8	-29.61	-27	-2.61	352	101	H

Pk - Peak detector

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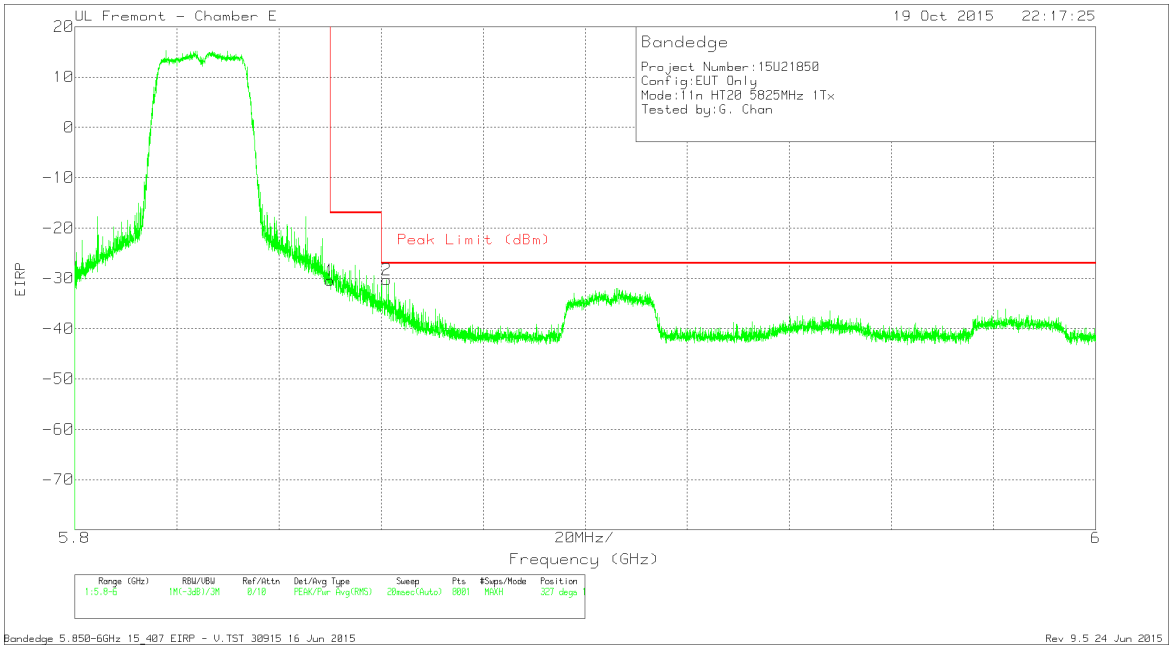
HIGH CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-57.1	Pk	34.9	-20	11.8	-30.4	-17	-13.4	327	156	V
2	5.861	-57.16	Pk	34.9	-19.8	11.8	-30.26	-27	-3.26	327	156	V

Pk - Peak detector

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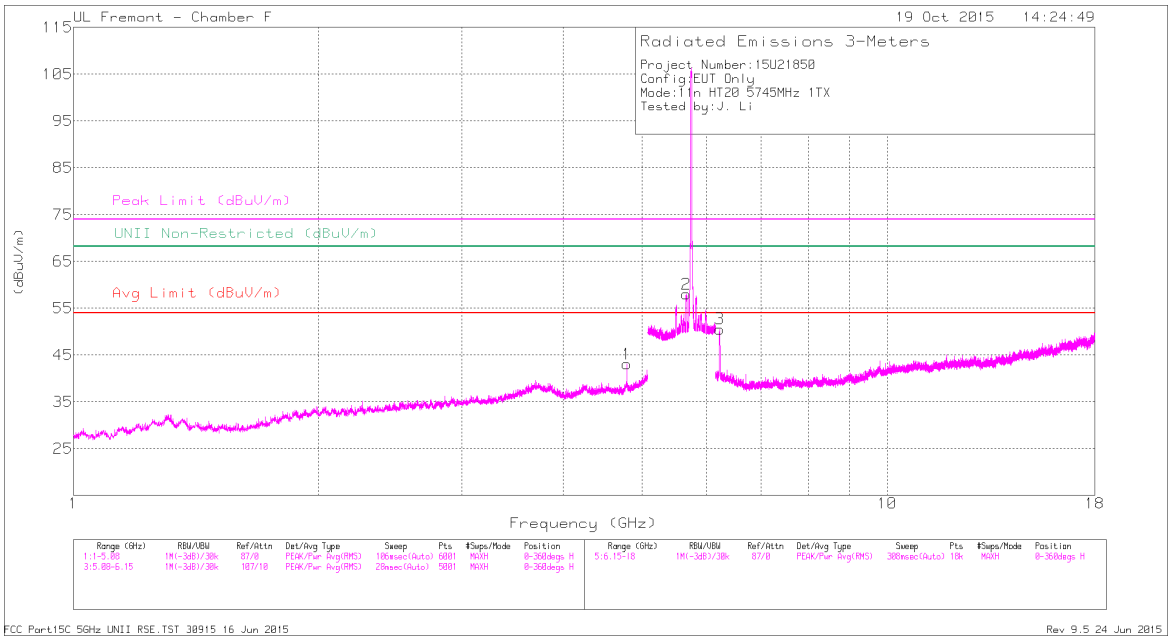
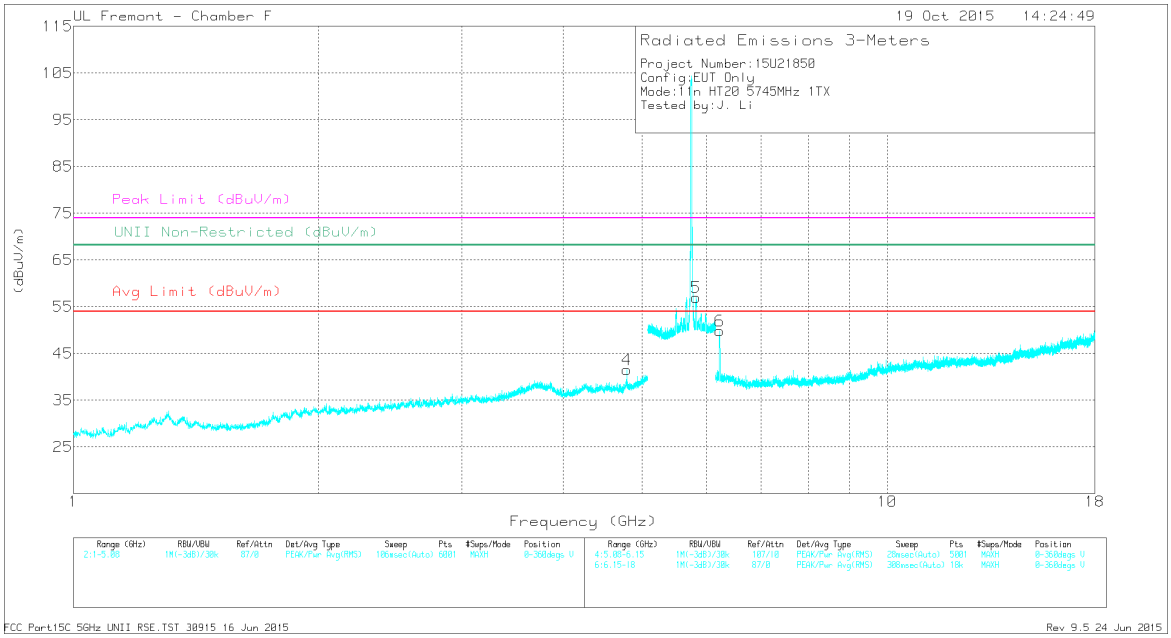
LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fltr/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	* 4.787	41.68	PK-U	34.1	-27.6	48.18	-	-	74	-25.82	-	-	8	107	H
	* 4.787	33.46	ADR	34.1	-27.6	39.96	54	-14.04	-	-	-	-	8	107	H
4	* 4.787	41.42	PK-U	34.1	-27.6	47.92	-	-	74	-26.08	-	-	3	211	V
	* 4.787	31.89	ADR	34.1	-27.6	38.39	54	-15.61	-	-	-	-	3	211	V
2	5.673	49.59	PK-U	34.8	-18.4	65.99	-	-	-	-	68.2	-2.21	16	119	H
5	5.824	48.53	PK-U	35.1	-18.5	65.13	-	-	-	-	68.2	-3.07	7	105	V
3	6.224	48.97	PK-U	35.7	-26.6	58.07	-	-	-	-	68.2	-10.13	19	252	H
6	6.224	47.15	PK-U	35.7	-26.6	56.25	-	-	-	-	68.2	-11.95	17	102	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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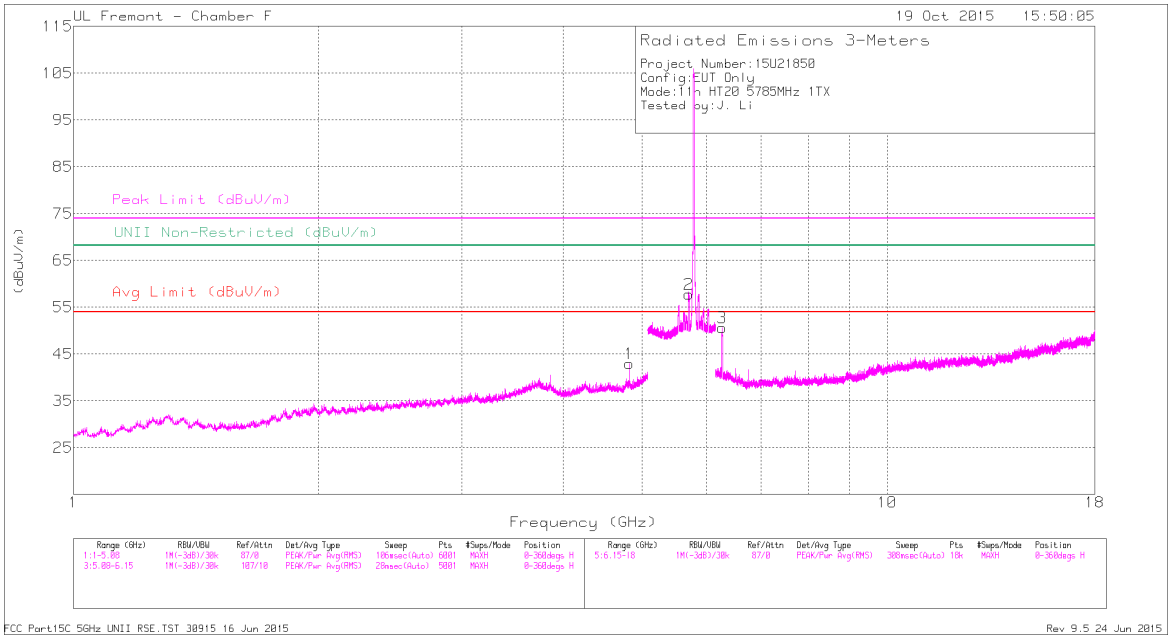
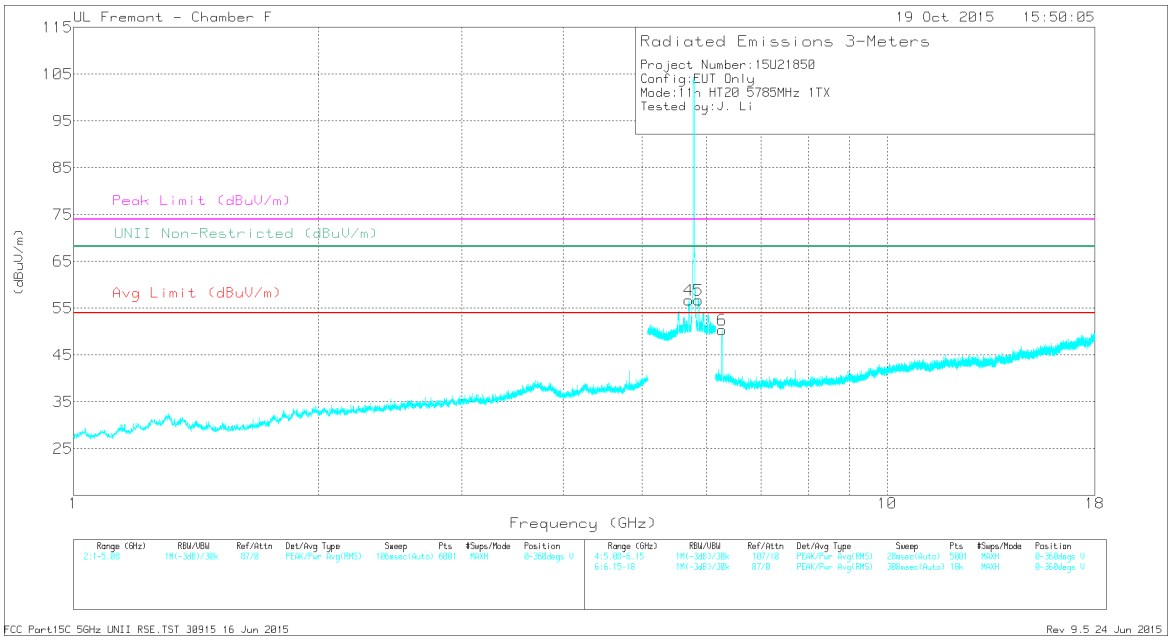
MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fltr/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	* 4.821	41.97	PK-U	34.1	-28.1	47.97	-	-	74	-26.03	-	-	13	107	H
	* 4.821	34.03	ADR	34.1	-28.1	40.03	54	-13.97	-	-	-	-	13	107	H
2	5.711	49.38	PK-U	34.8	-18.4	65.78	-	-	-	-	68.2	-2.42	14	238	H
4	5.707	48.08	PK-U	34.8	-18.3	64.58	-	-	-	-	68.2	-3.62	1	132	V
5	5.862	48.56	PK-U	35.1	-18.7	64.96	-	-	-	-	68.2	-3.24	11	120	V
3	6.267	49.93	PK-U	35.7	-26.6	59.03	-	-	-	-	68.2	-9.17	21	231	H
6	6.267	47.69	PK-U	35.7	-26.6	56.79	-	-	-	-	68.2	-11.41	16	101	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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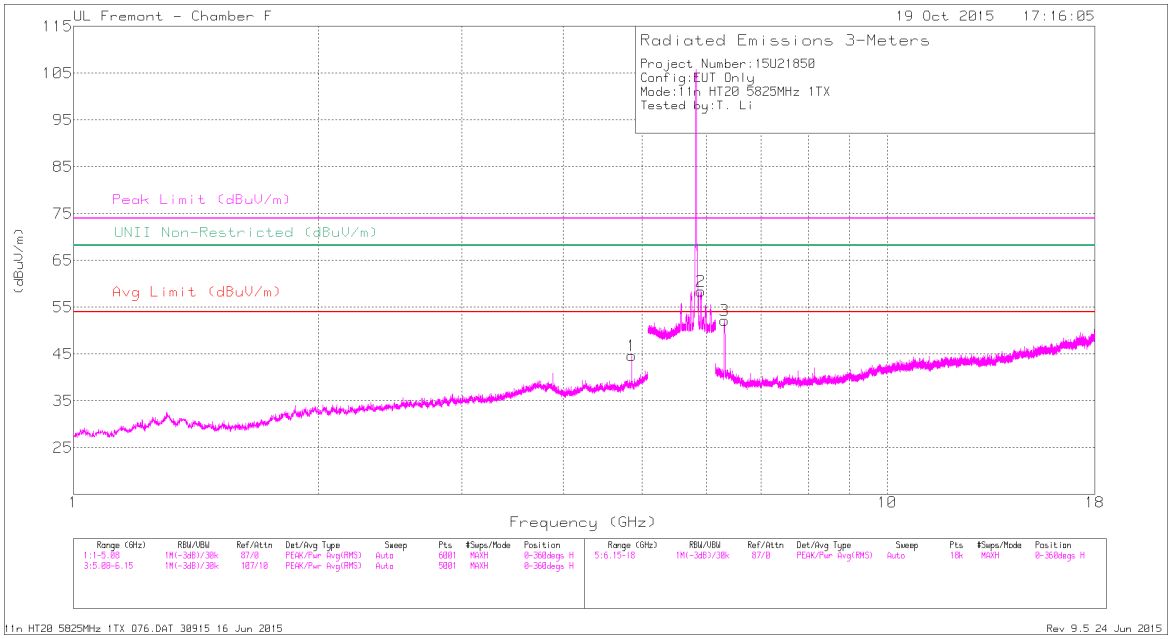
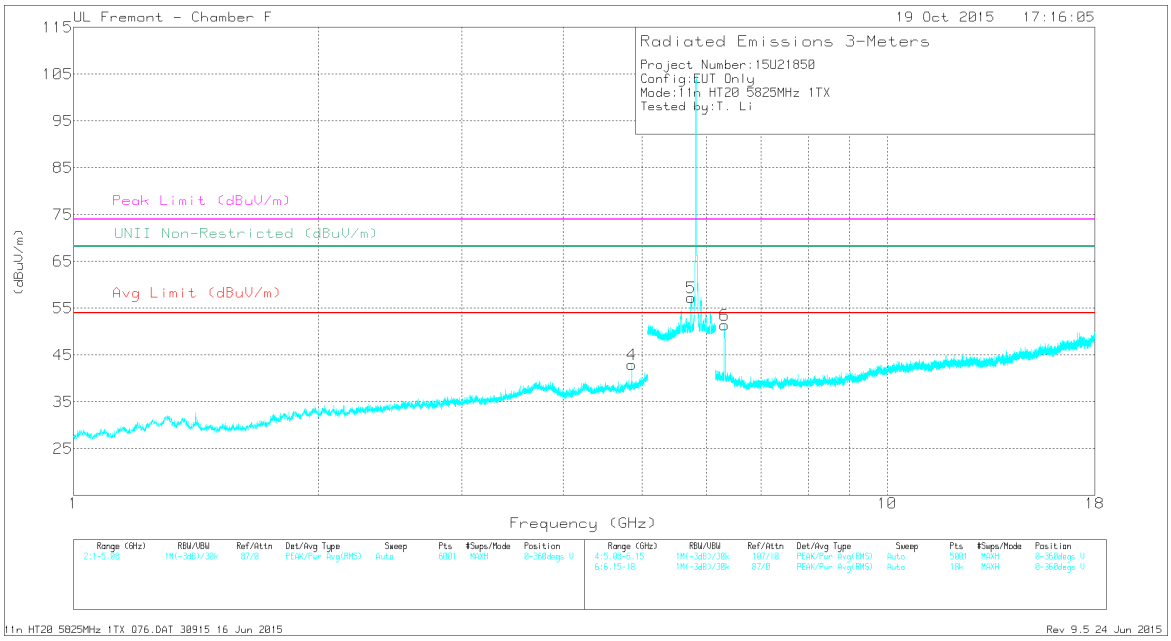
HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fltr/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	* 4.854	42.5	PK-U	34.1	-28.3	48.3	-	-	74	-25.7	-	-	9	102	H
	* 4.854	35.44	ADR	34.1	-28.3	41.24	54	-12.76	-	-	-	-	9	102	H
4	* 4.854	42.86	PK-U	34.1	-28.3	48.66	-	-	74	-25.34	-	-	220	325	V
	* 4.854	29.71	ADR	34.1	-28.3	35.51	54	-18.49	-	-	-	-	220	325	V
2	5.903	48.85	PK-U	35.2	-18.7	65.35	-	-	-	-	68.2	-2.85	12	205	H
5	5.747	47.73	PK-U	34.9	-18.4	64.23	-	-	-	-	68.2	-3.97	358	100	V
3	6.31	49.96	PK-U	35.7	-26.7	58.96	-	-	-	-	68.2	-9.24	301	274	H
6	6.311	48.84	PK-U	35.7	-26.7	57.84	-	-	-	-	68.2	-10.36	15	102	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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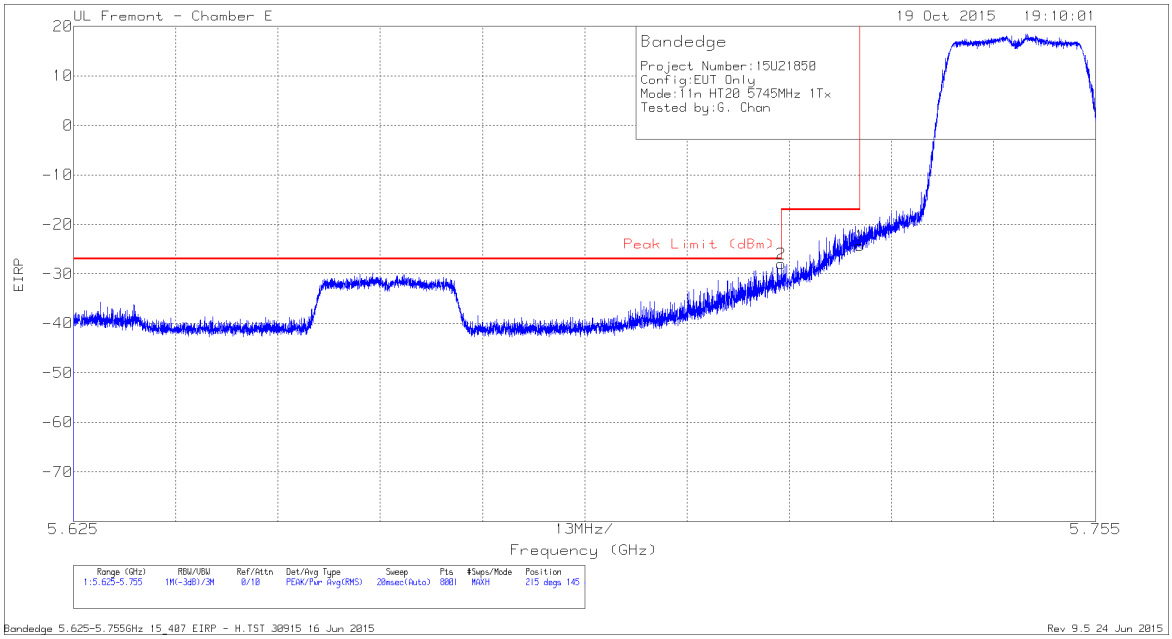
RESTRICTED BANDEDGE, CHAIN 2 (LOW CHANNEL)

LOW CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.715	-54.69	Pk	34.7	-19.8	11.8	-27.99	-27	-.99	215	145	H
1	5.725	-51.03	Pk	34.7	-19.8	11.8	-24.33	-17	-7.33	215	145	H

Pk - Peak detector

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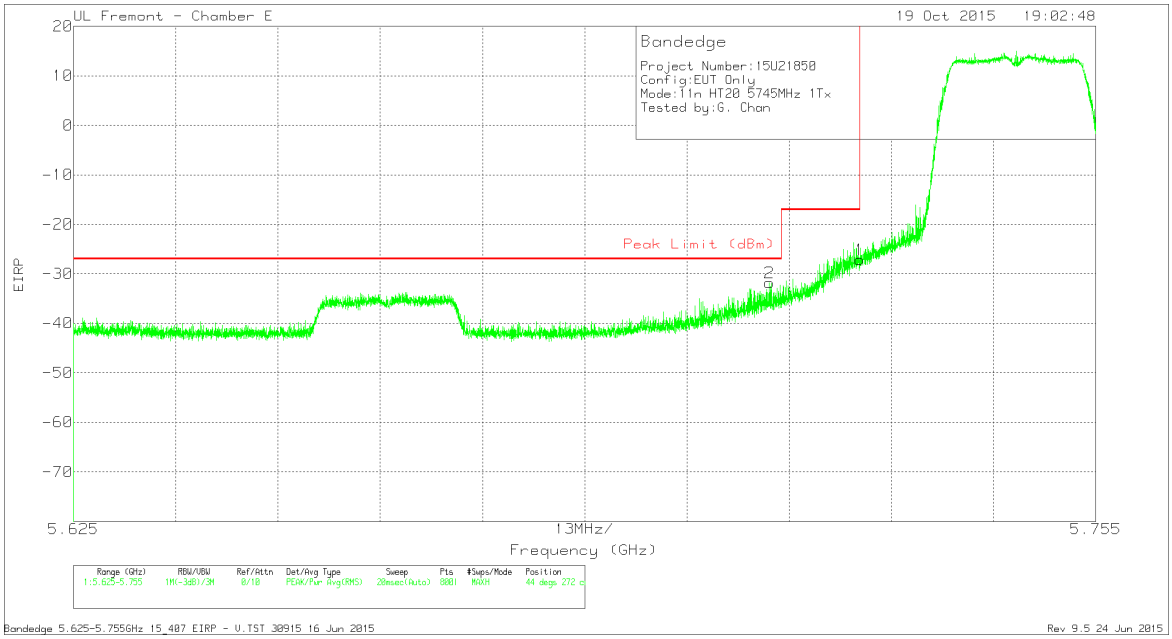
LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.713	-58.51	Pk	34.7	-19.8	11.8	-31.81	-27	-4.81	44	272	V
1	5.725	-53.86	Pk	34.7	-19.8	11.8	-27.16	-17	-10.16	44	272	V

Pk - Peak detector

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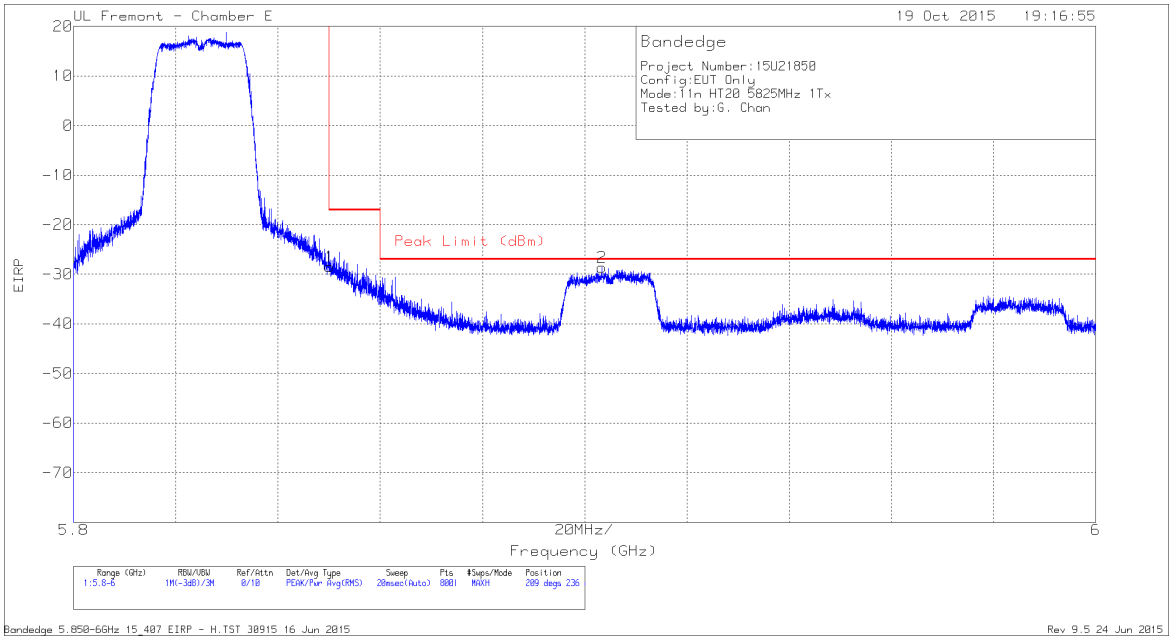
RESTRICTED BANDEDGE, CHAIN 2 (HIGH CHANNEL)

HIGH CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-55.19	Pk	34.9	-20	11.8	-28.49	-17	-11.49	209	236	H
2	5.903	-55.75	Pk	34.9	-19.5	11.8	-28.55	-27	-1.55	209	236	H

Pk - Peak detector

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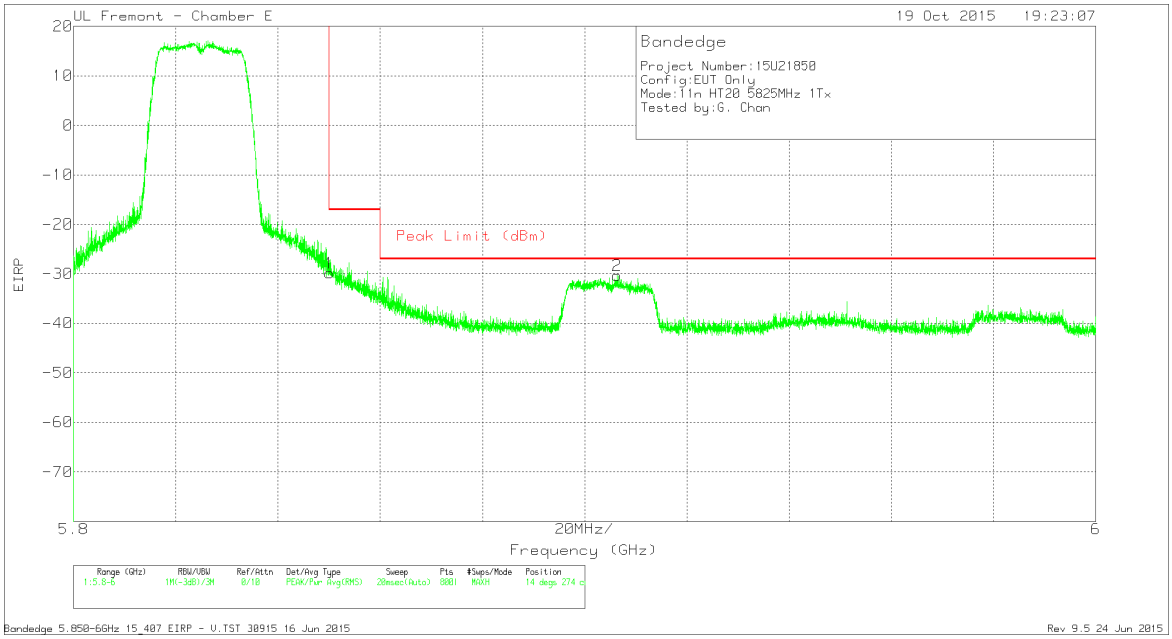
HIGH CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-56.51	Pk	34.9	-20	11.8	-29.81	-17	-12.81	14	274	V
2	5.906	-57.54	Pk	34.9	-19.5	11.8	-30.34	-27	-3.34	14	274	V

Pk - Peak detector

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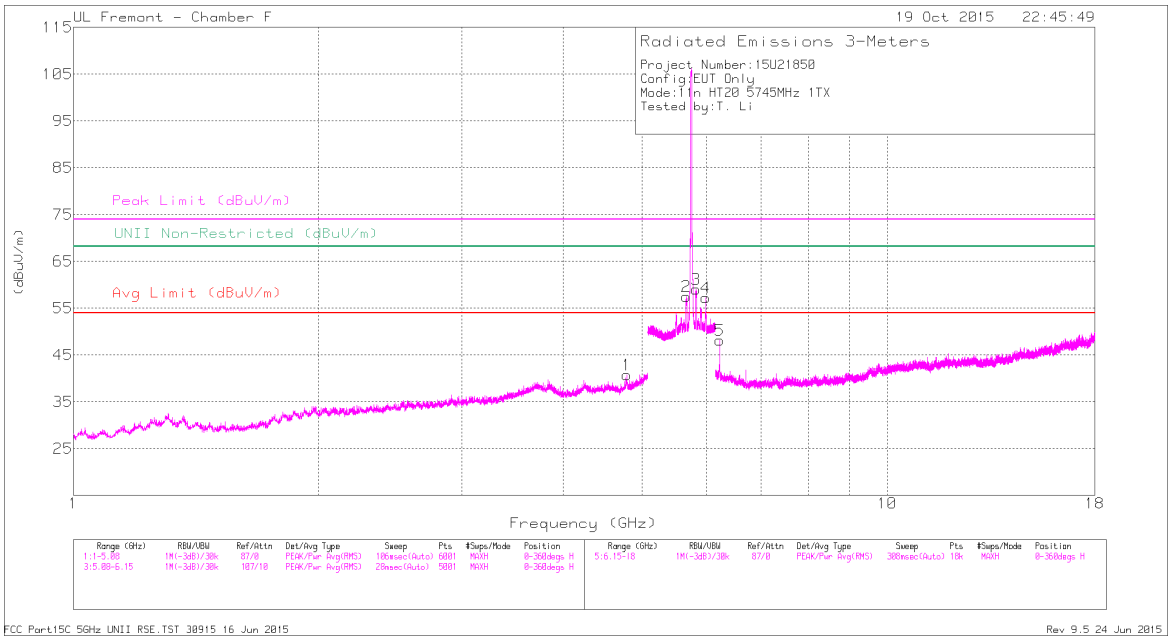
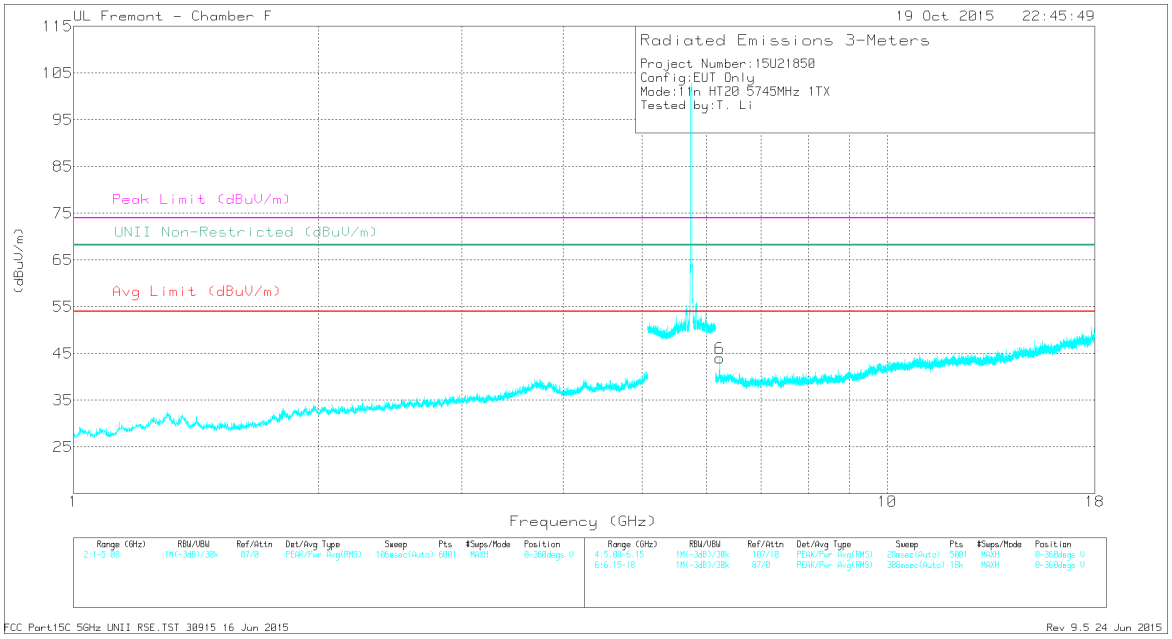
LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fltr/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	* 4.787	41.23	PK-U	34.1	-27.6	47.73	-	-	74	-26.27	-	-	55	338	H
	* 4.788	31.74	ADR	34.1	-27.6	38.24	54	-15.76	-	-	-	-	55	338	H
2	5.663	49.36	PK-U	34.8	-18.5	65.66	-	-	-	-	68.2	-2.54	316	274	H
3	5.824	50.52	PK-U	35.1	-18.5	67.12	-	-	-	-	68.2	-1.08	311	216	H
4	5.984	48.39	PK-U	35.4	-18.7	65.09	-	-	-	-	68.2	-3.11	321	219	H
5	6.224	44.01	PK-U	35.7	-26.6	53.11	-	-	-	-	68.2	-15.09	306	191	H
6	6.224	42.21	PK-U	35.7	-26.6	51.31	-	-	-	-	68.2	-16.89	131	239	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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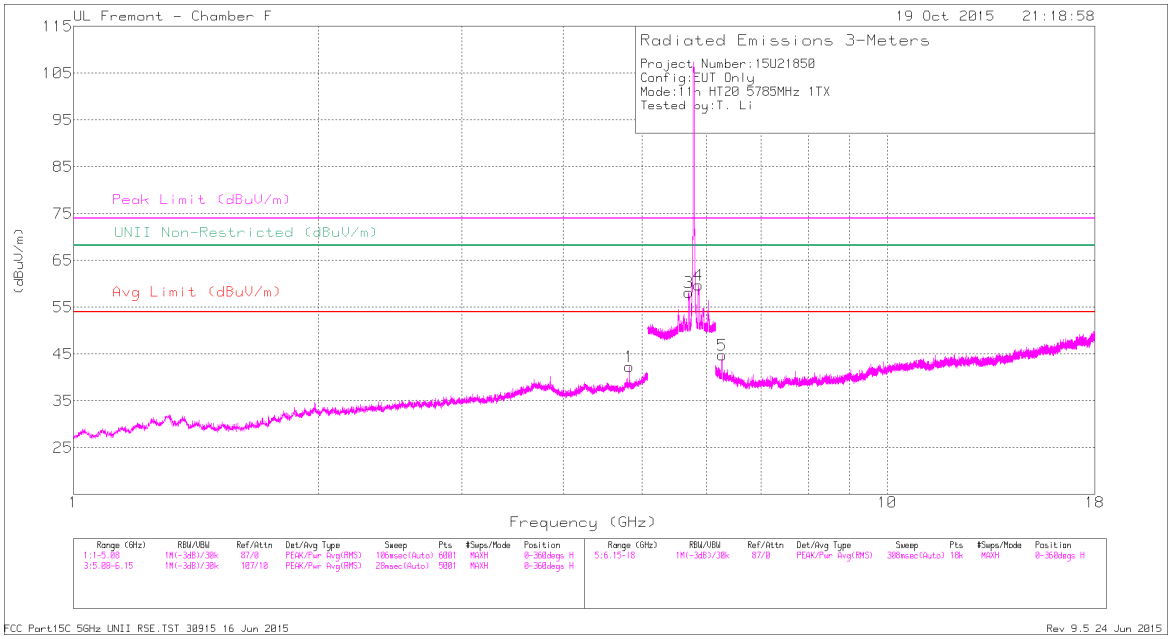
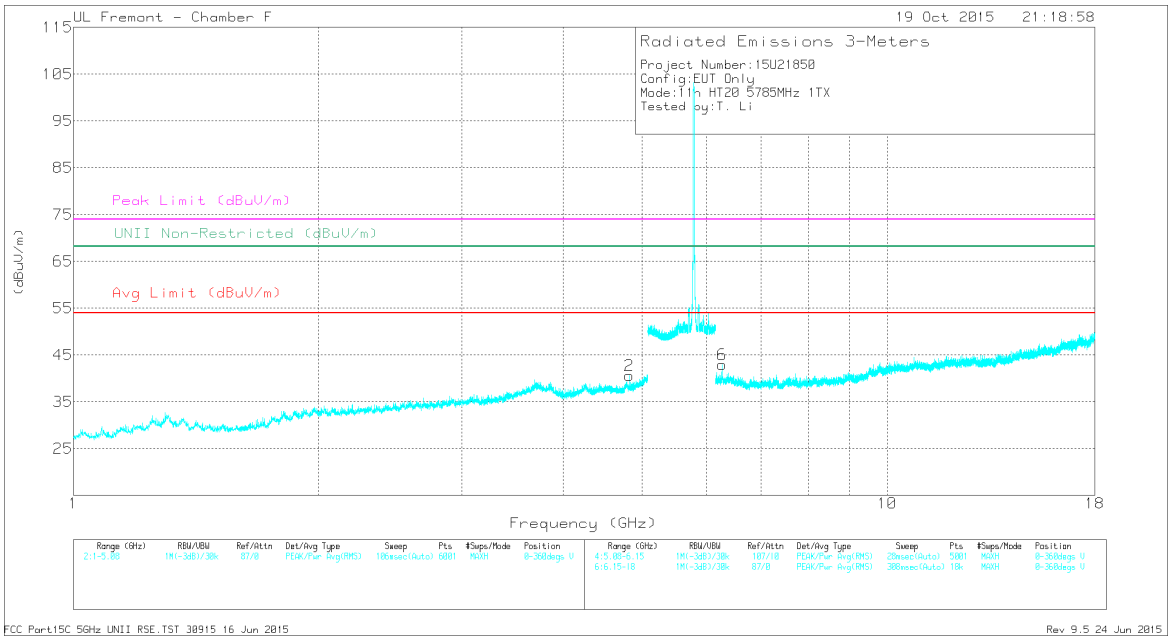
MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fltr/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	* 4.821	42.59	PK-U	34.1	-28.1	48.59	-	-	74	-25.41	-	-	205	247	H
	* 4.821	34.25	ADR	34.1	-28.1	40.25	54	-13.75	-	-	-	-	205	247	H
2	* 4.821	40.66	PK-U	34.1	-28.1	46.66	-	-	74	-27.34	-	-	289	374	V
	* 4.821	32.27	ADR	34.1	-28.1	38.27	54	-15.73	-	-	-	-	289	374	V
3	5.707	49.36	PK-U	34.8	-18.3	65.86	-	-	-	-	68.2	-2.34	146	213	H
4	5.863	51.05	PK-U	35.1	-18.7	67.45	-	-	-	-	68.2	-.75	146	233	H
5	6.267	43.18	PK-U	35.7	-26.6	52.28	-	-	-	-	68.2	-15.92	136	229	H
6	6.267	41.93	PK-U	35.7	-26.6	51.03	-	-	-	-	68.2	-17.17	317	232	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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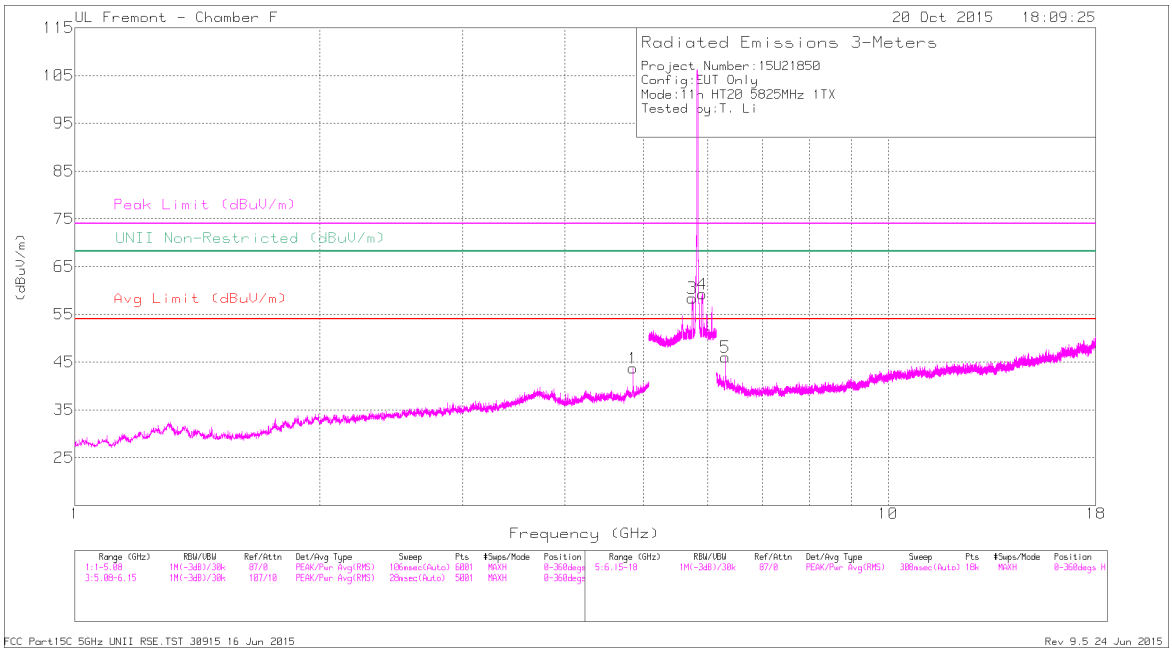
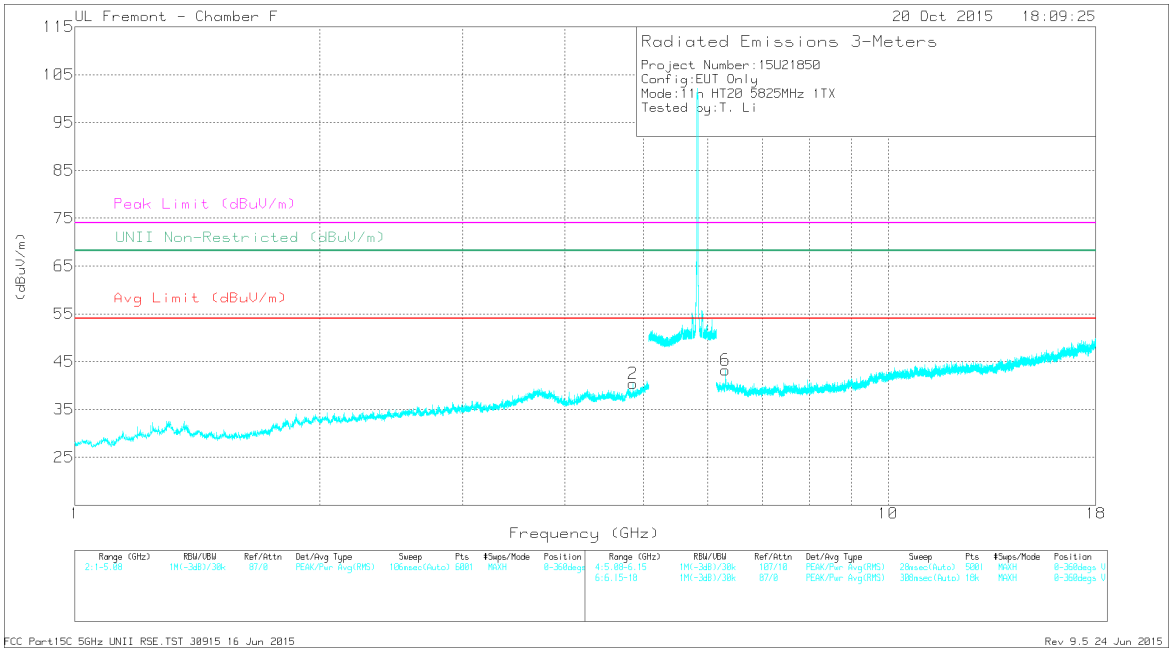
HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fltr/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	* 4.854	43.1	PK-U	34.1	-28.3	48.9	-	-	74	-25.1	-	-	27	247	H
	* 4.854	35.66	ADR	34.1	-28.3	41.46	54	-12.54	-	-	-	-	27	247	H
2	* 4.854	39.88	PK-U	34.1	-28.3	45.68	-	-	74	-28.32	-	-	307	200	V
	* 4.854	30.8	ADR	34.1	-28.3	36.6	54	-17.4	-	-	-	-	307	200	V
3	5.747	49.28	PK-U	34.9	-18.4	65.78	-	-	-	-	68.2	-2.42	317	212	H
4	5.903	50.6	PK-U	35.2	-18.7	67.1	-	-	-	-	68.2	-1.1	320	269	H
5	6.31	42.63	PK-U	35.7	-26.7	51.63	-	-	-	-	68.2	-16.57	307	205	H
6	6.31	41.09	PK-U	35.7	-26.7	50.09	-	-	-	-	68.2	-18.11	135	220	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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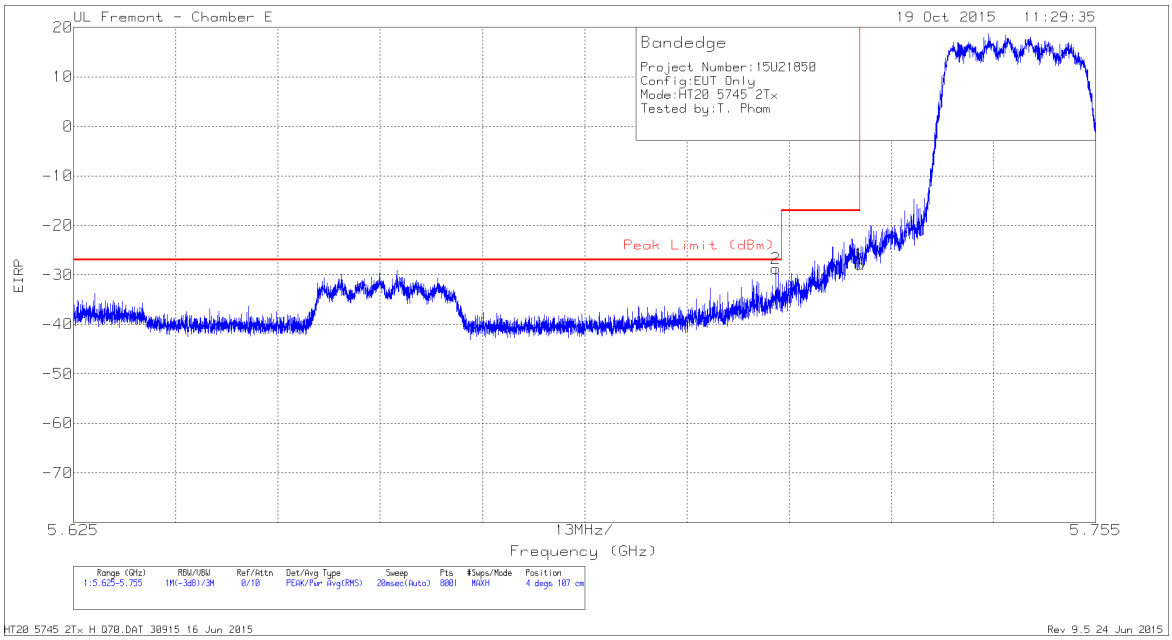
9.4. 802.11n HT20 2TX CDD MODE IN THE 5.8 GHz BAND

RESTRICTED BANDEDGE CHAIN 0 + 1 (LOW CHANNEL)

LOW CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.714	-55.14	Pk	34.7	-20.1	11.8	-28.74	-27	-1.74	4	107	H
1	5.725	-54.31	Pk	34.7	-20.1	11.8	-27.91	-17	-10.91	4	107	H

Pk - Peak detector

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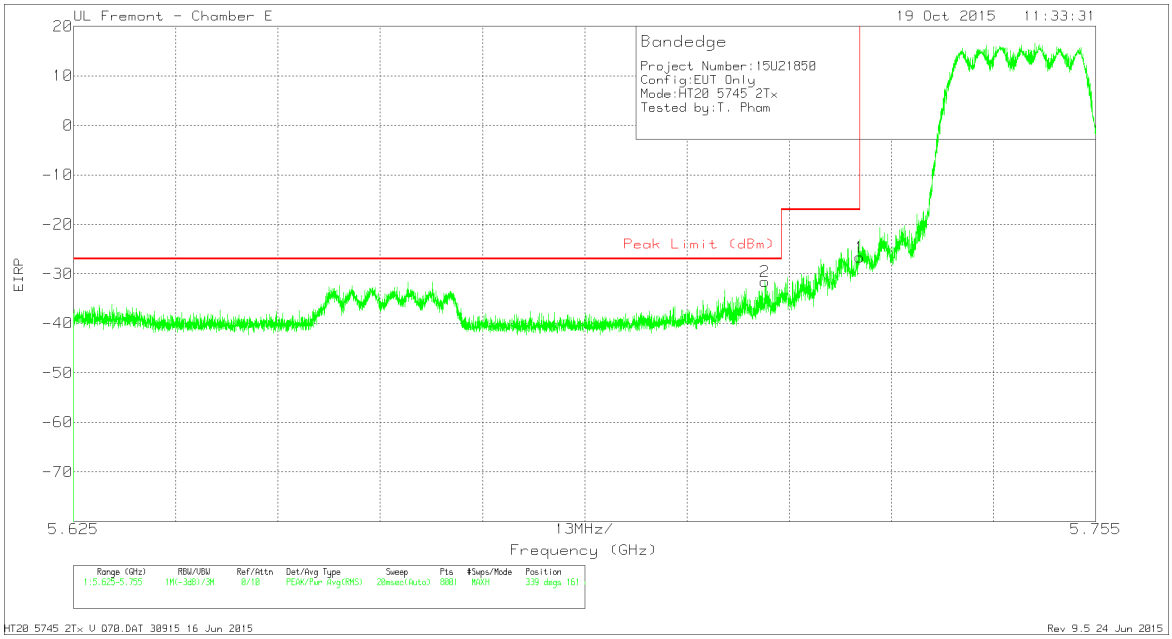
LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.713	-57.97	Pk	34.7	-20.1	11.8	-31.57	-27	-4.57	339	161	V
1	5.725	-53.06	Pk	34.7	-20.1	11.8	-26.66	-17	-9.66	339	161	V

Pk - Peak detector

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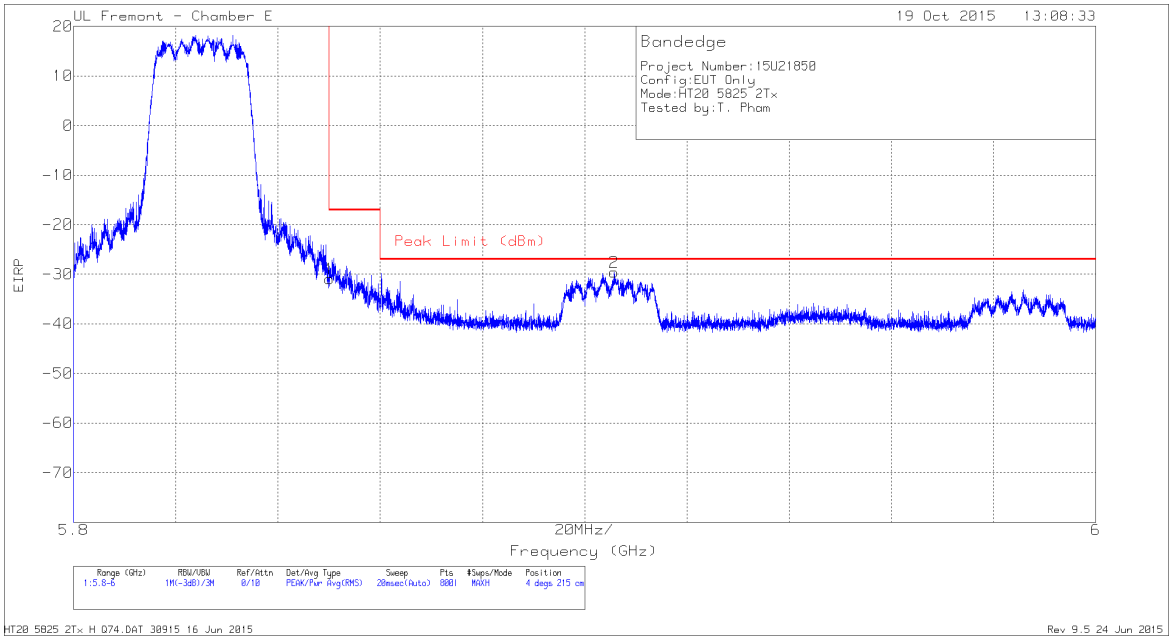
RESTRICTED BANDEDGE CHAIN 0 + 1 (HIGH CHANNEL)

HIGH CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-57.31	Pk	34.9	-20.3	11.8	-30.91	-17	-13.91	4	215	H
2	5.906	-55.99	Pk	34.9	-20.3	11.8	-29.59	-27	-2.59	4	215	H

Pk - Peak detector

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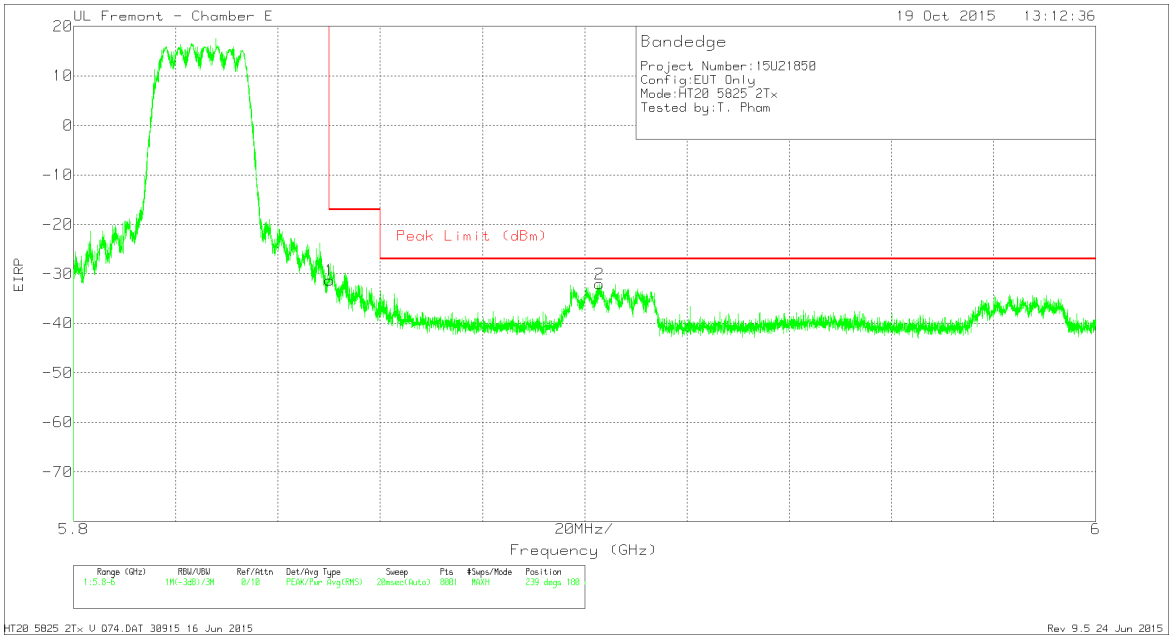
HIGH CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-57.68	Pk	34.9	-20.3	11.8	-31.28	-17	-14.28	239	180	V
2	5.903	-58.35	Pk	34.9	-20.4	11.8	-32.05	-27	-5.05	239	180	V

Pk - Peak detector

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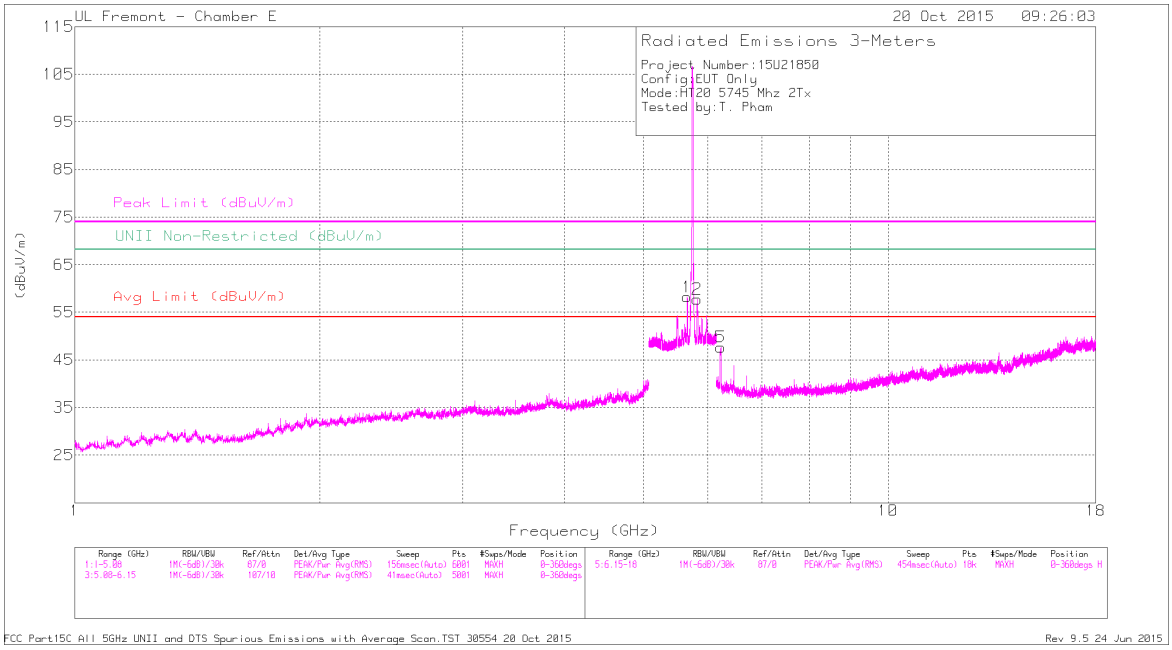
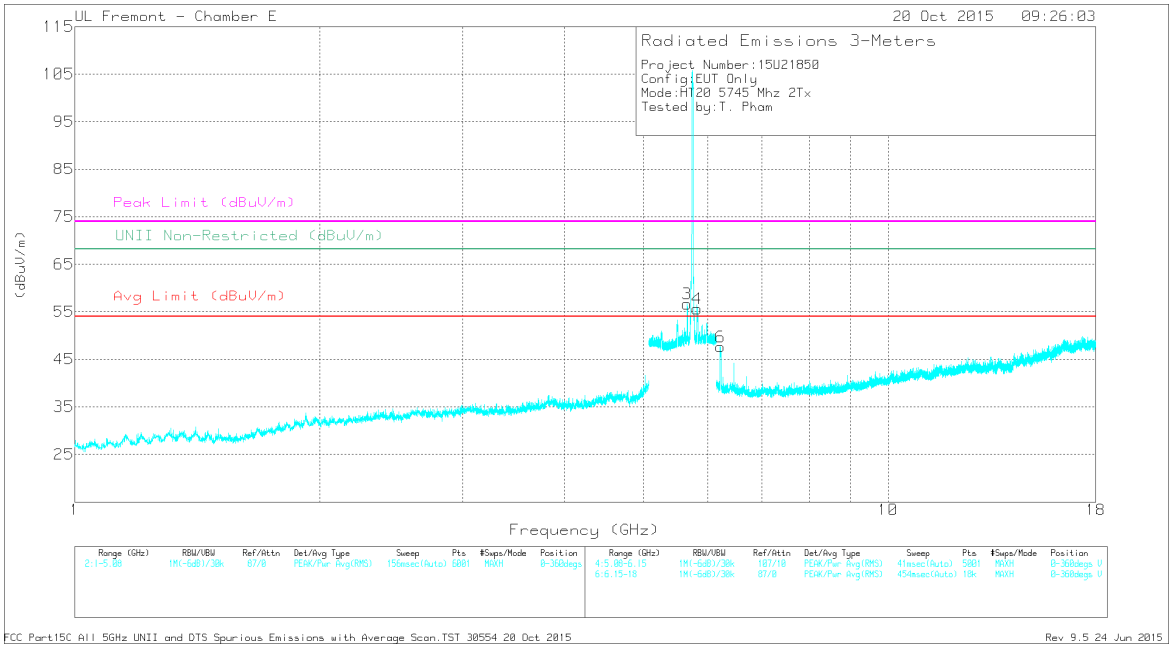
LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/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	5.661	51.37	PK-U	34.6	-20	65.97	-	-	-	-	68.2	-2.23	356	104	H
3	5.663	50.01	PK-U	34.6	-20.1	64.51	-	-	-	-	68.2	-3.69	232	226	V
4	5.823	49.9	PK-U	34.9	-20.1	64.7	-	-	-	-	68.2	-3.5	231	203	V
2	5.826	49.94	PK-U	34.9	-20.2	64.64	-	-	-	-	68.2	-3.56	360	252	H
6	6.222	48.67	PK-U	35.4	-28	56.07	-	-	-	-	68.2	-12.13	356	108	V
5	6.224	50.49	PK-U	35.4	-28.1	57.79	-	-	-	-	68.2	-10.41	255	160	H

PK-U - U-NII: Maximum Peak

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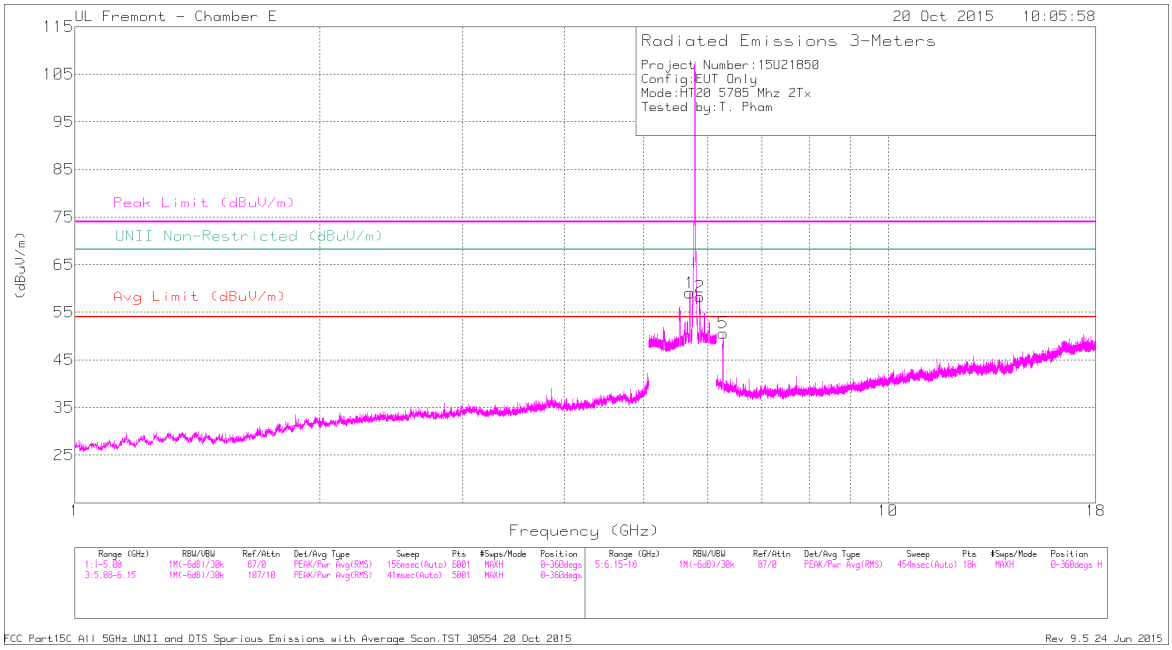
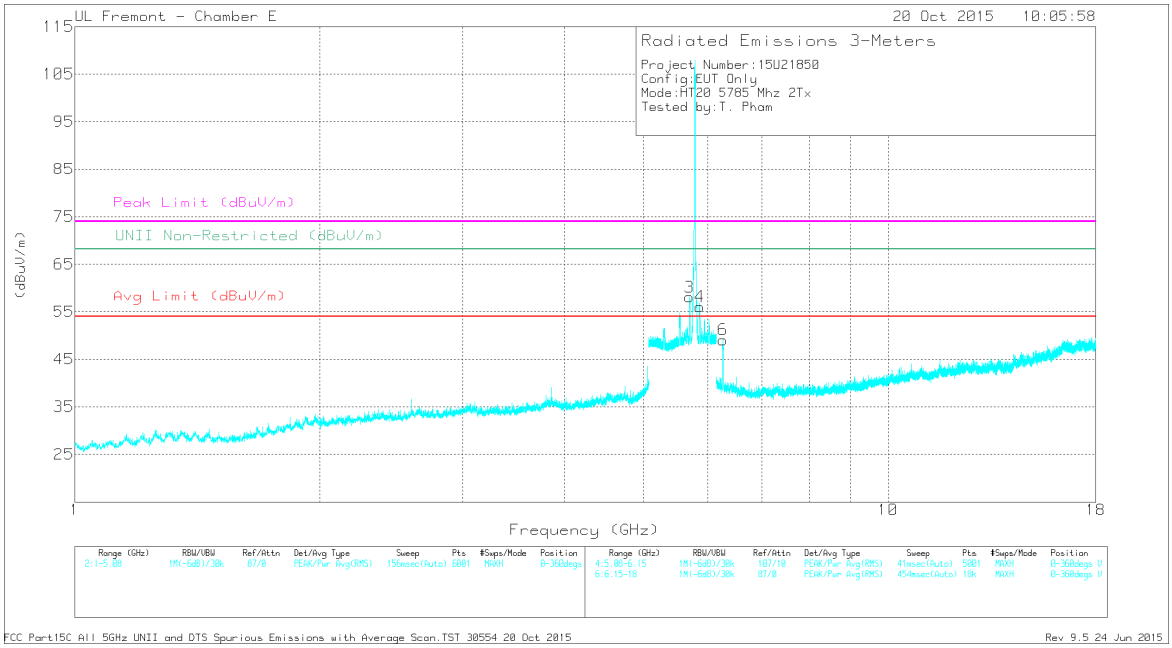
MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/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	5.703	51.77	PK-U	34.7	-20.1	66.37	-	-	-	-	68.2	-1.83	235	227	V
1	5.707	52.23	PK-U	34.7	-20.1	66.83	-	-	-	-	68.2	-1.37	4	100	H
2	5.861	51.26	PK-U	34.9	-20.4	65.76	-	-	-	-	68.2	-2.44	1	250	H
4	5.861	50.19	PK-U	34.9	-20.4	64.69	-	-	-	-	68.2	-3.51	230	286	V
5	6.265	51.8	PK-U	35.4	-28.3	58.9	-	-	-	-	68.2	-9.3	254	150	H
6	6.266	50.72	PK-U	35.4	-28.3	57.82	-	-	-	-	68.2	-10.38	96	223	V

PK-U - U-NII: Maximum Peak

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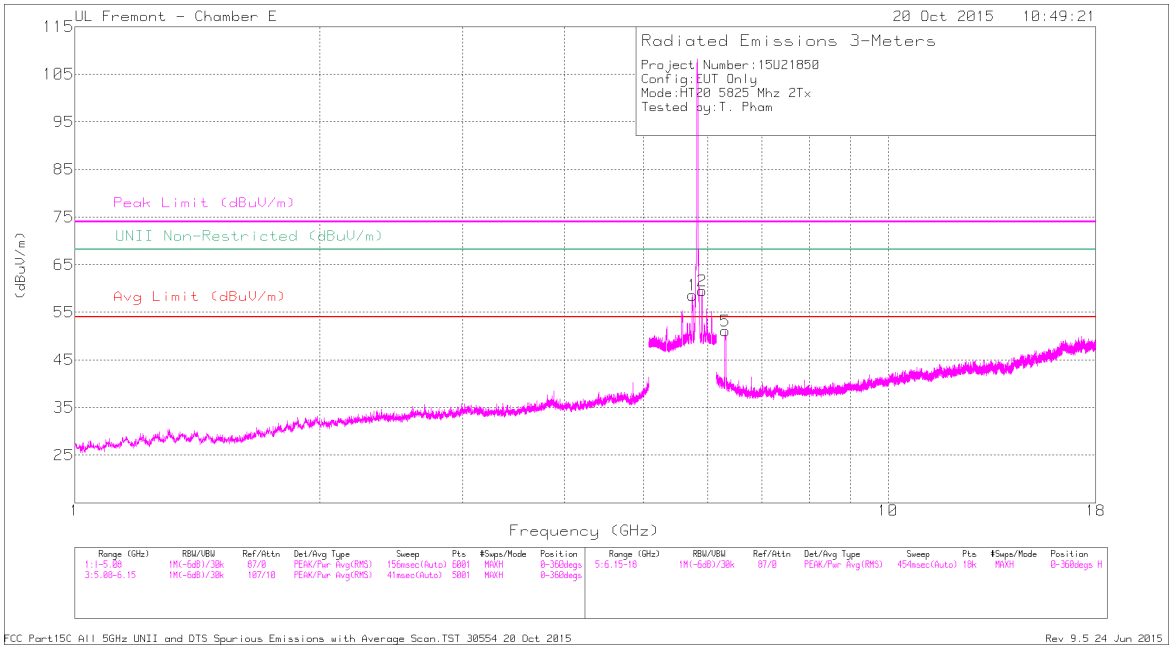
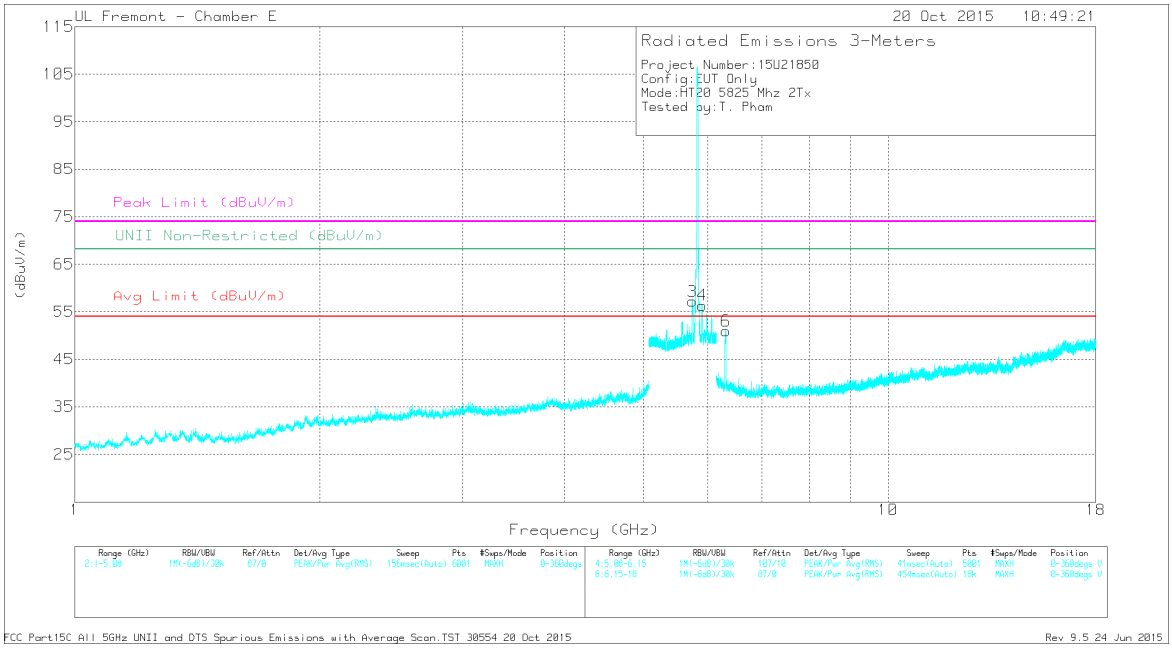
HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/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	5.744	51.4	PK-U	34.7	-20	66.1	-	-	-	-	68.2	-2.1	3	119	H
2	5.746	51.24	PK-U	34.8	-20	66.04	-	-	-	-	68.2	-2.16	235	200	V
3	5.903	52.17	PK-U	34.9	-20.4	66.67	-	-	-	-	68.2	-1.53	350	201	H
4	5.903	49.91	PK-U	34.9	-20.4	64.41	-	-	-	-	68.2	-3.79	11	187	V
6	6.306	51.85	PK-U	35.4	-28.5	58.75	-	-	-	-	68.2	-9.45	360	100	V
5	6.309	52.67	PK-U	35.4	-28.5	59.57	-	-	-	-	68.2	-8.63	250	211	H

PK-U - U-NII: Maximum Peak

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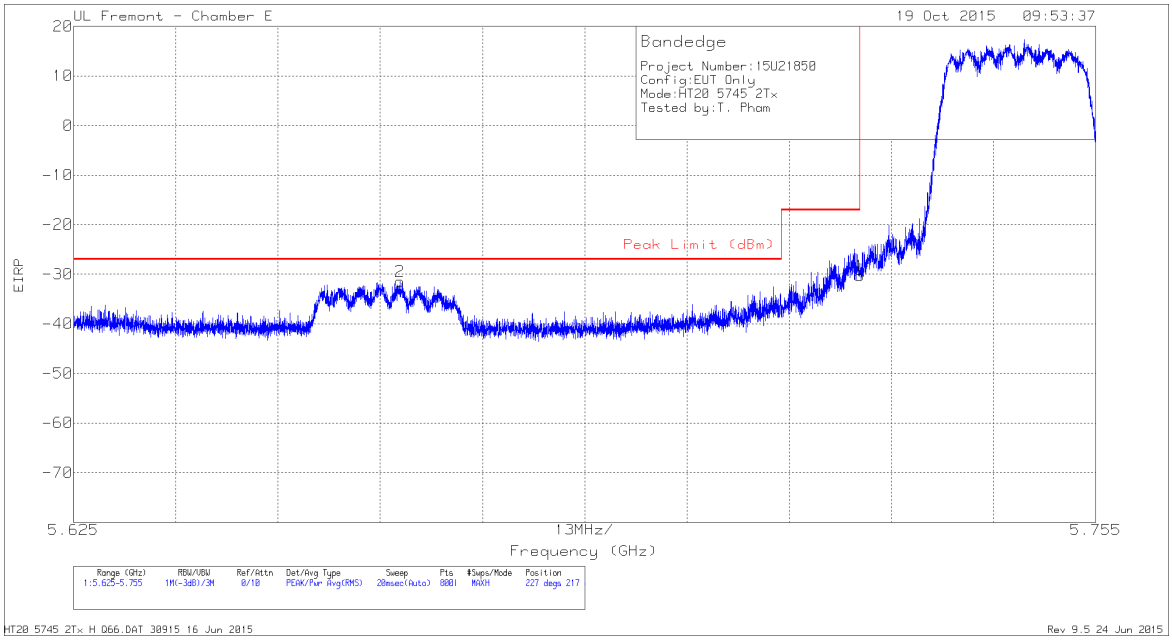
RESTRICTED BANDEDGE CHAIN 0 + 2 (LOW CHANNEL)

LOW CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.667	-57.76	Pk	34.6	-20.1	11.8	-31.46	-27	-4.46	227	217	H
1	5.725	-56.71	Pk	34.7	-20.1	11.8	-30.31	-17	-13.31	227	217	H

Pk - Peak detector

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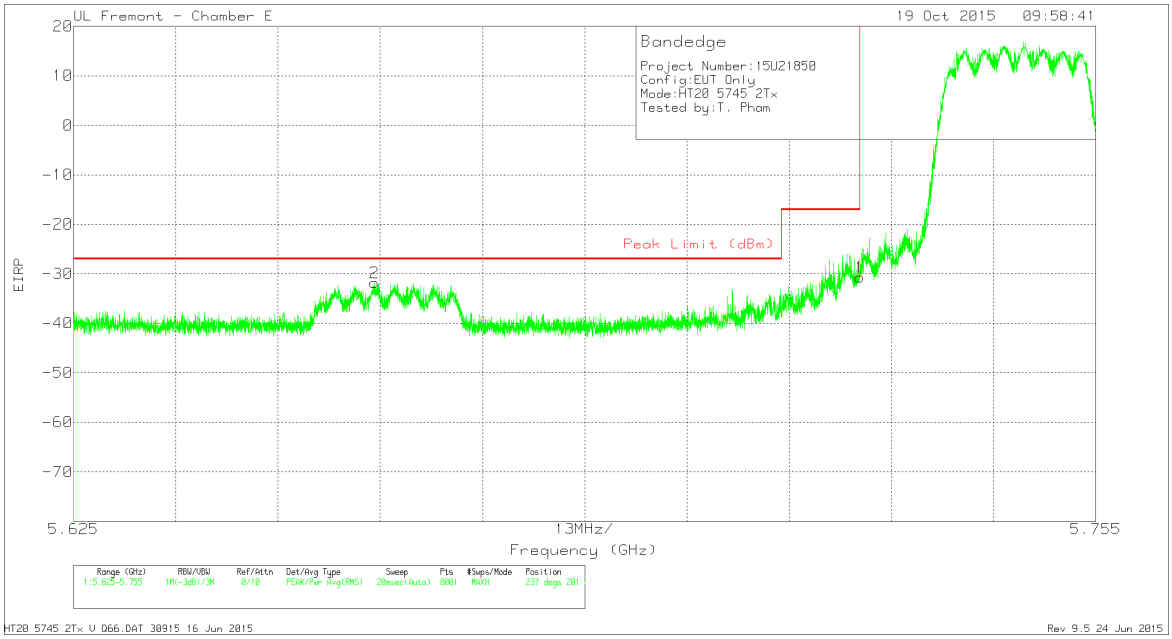
LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.663	-58.14	Pk	34.6	-20.1	11.8	-31.84	-27	-4.84	237	201	V
1	5.725	-57.08	Pk	34.7	-20.1	11.8	-30.68	-17	-13.68	237	201	V

Pk - Peak detector

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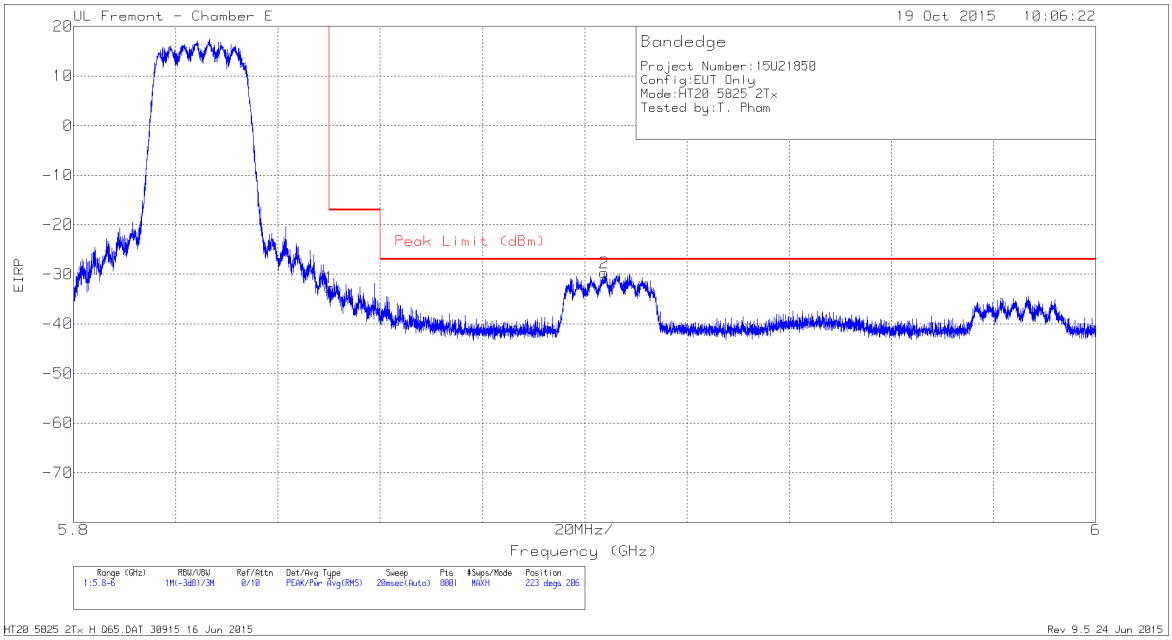
RESTRICTED BANDEDGE CHAIN 0 + 2 (HIGH CHANNEL)

HIGH CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-59.35	Pk	34.9	-20	11.8	-32.65	-17	-15.65	223	206	H
2	5.904	-56.9	Pk	34.9	-19.5	11.8	-29.7	-27	-2.7	223	206	H

Pk - Peak detector

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47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 771-1000 FAX: (510) 661-0888
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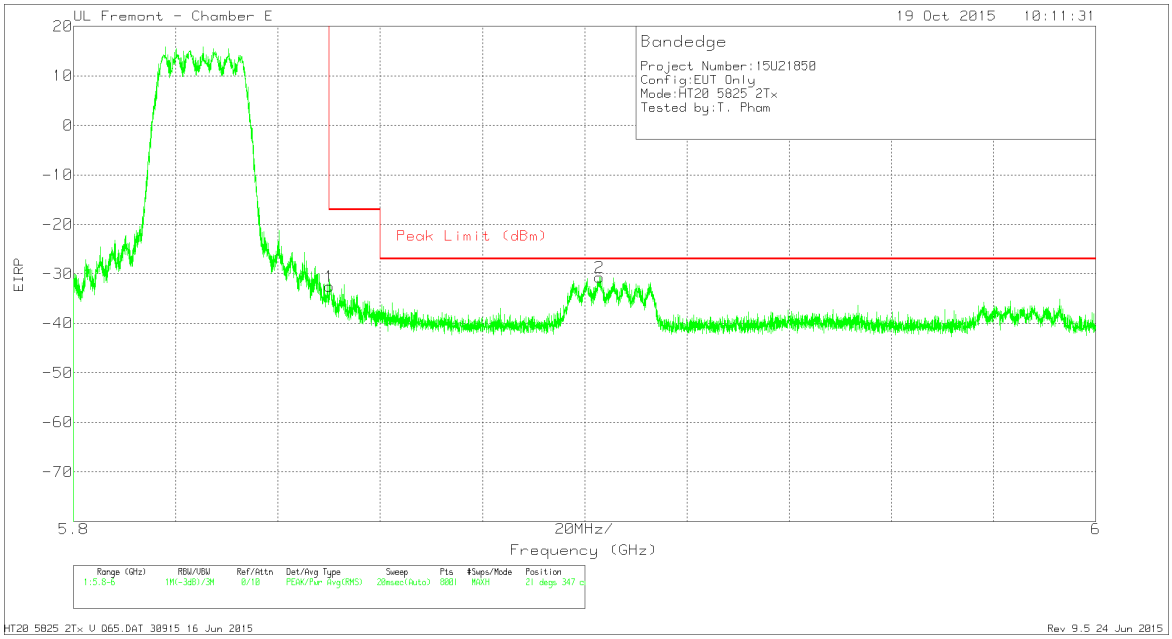
HIGH CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-58.93	Pk	34.9	-20.3	11.8	-32.53	-17	-15.53	21	347	V
2	5.903	-56.96	Pk	34.9	-20.4	11.8	-30.66	-27	-3.66	21	347	V

Pk - Peak detector

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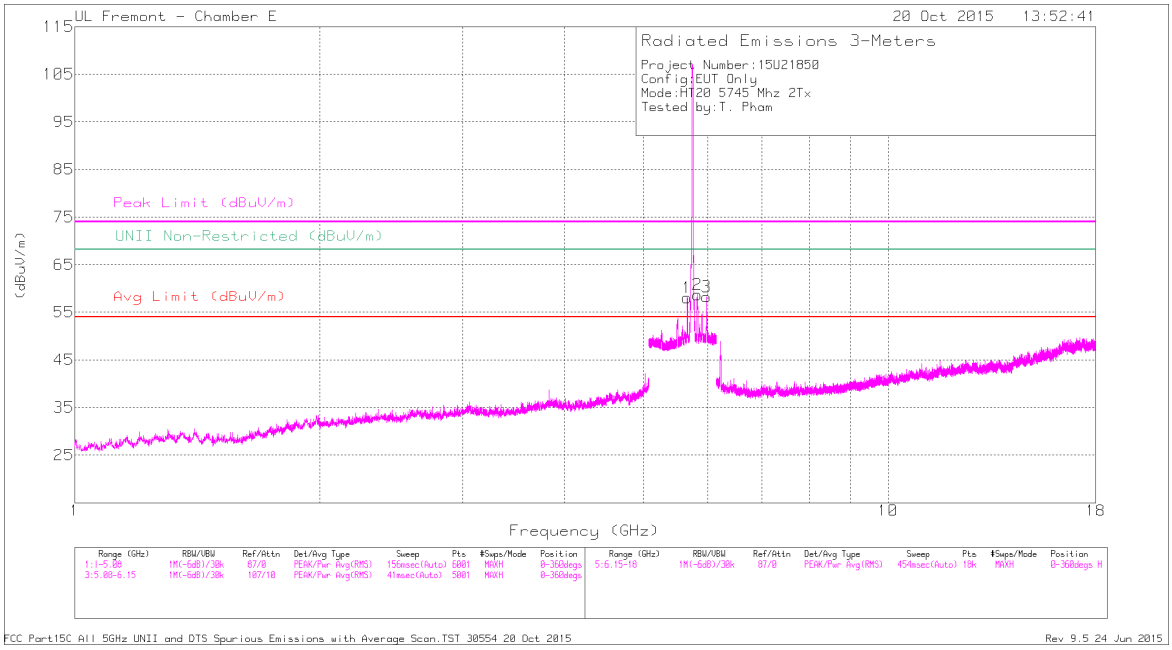
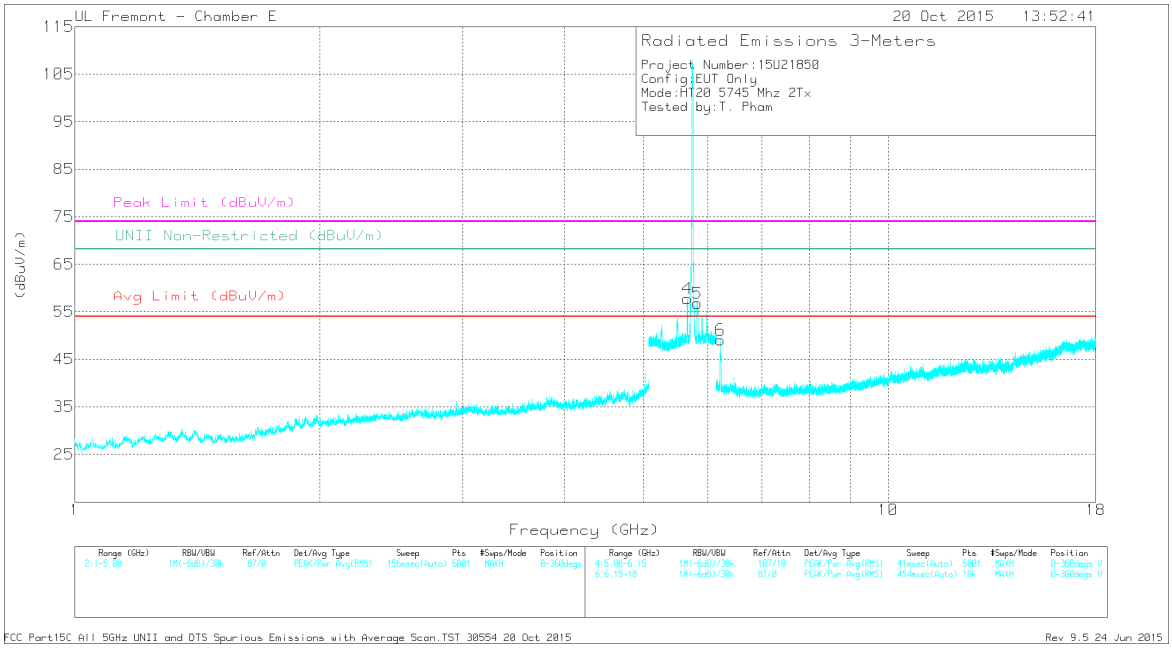
LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/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	5.662	52.28	PK-U	34.6	-20	66.88	-	-	-	-	68.2	-1.32	212	167	H
4	5.663	52.28	PK-U	34.6	-20.1	66.78	-	-	-	-	68.2	-1.42	231	210	V
2	5.824	52.44	PK-U	34.9	-20.1	67.24	-	-	-	-	68.2	-.96	215	142	H
5	5.828	51.41	PK-U	34.9	-20.2	66.11	-	-	-	-	68.2	-2.09	16	310	V
3	5.984	49.87	PK-U	35.1	-20	64.97	-	-	-	-	68.2	-3.23	207	264	H
6	6.224	50.43	PK-U	35.4	-28	57.83	-	-	-	-	68.2	-10.37	99	238	V

PK-U - U-NII: Maximum Peak

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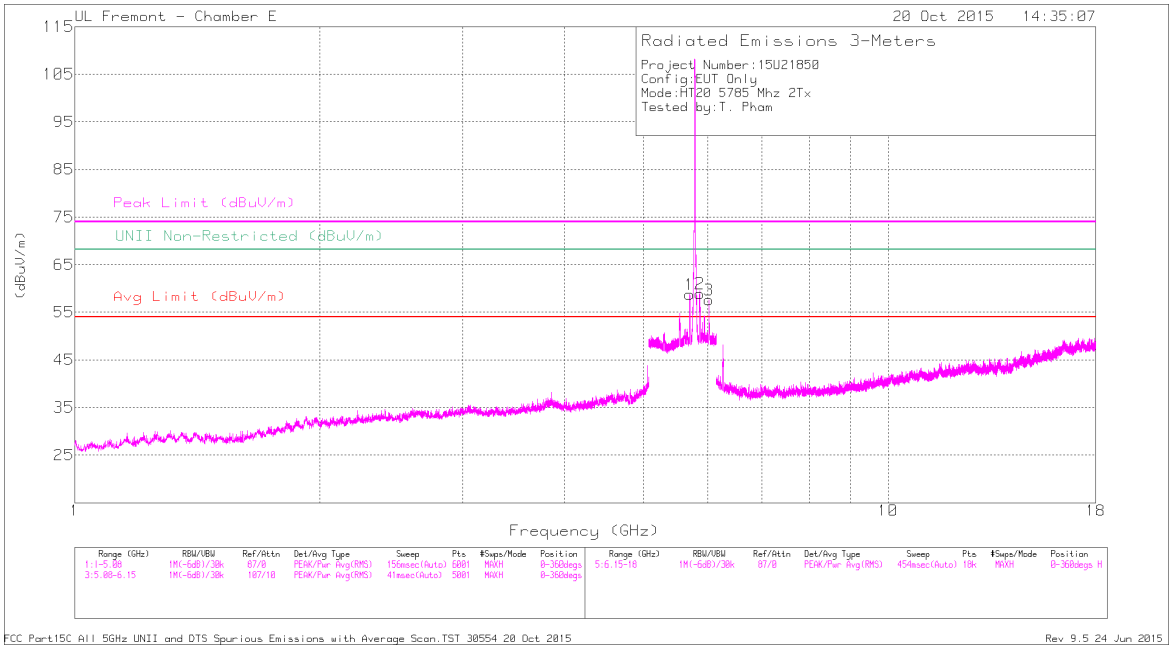
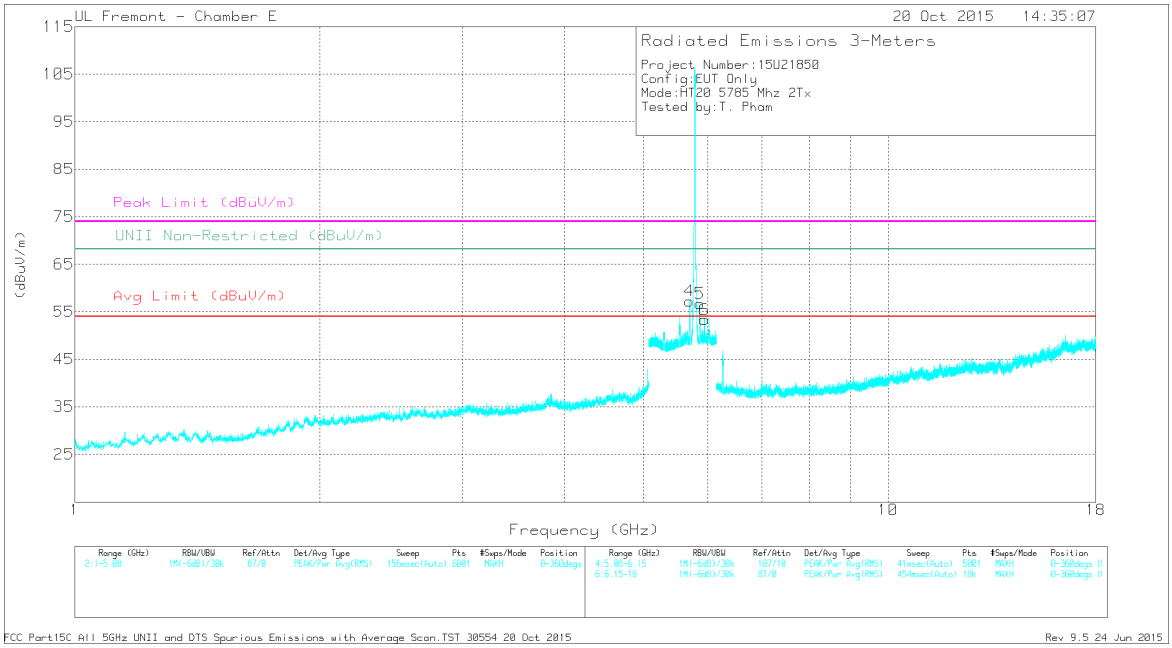
MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/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	5.706	51.51	PK-U	34.7	-20.1	66.11	-	-	-	-	68.2	-2.09	227	208	V
1	5.707	51.97	PK-U	34.7	-20.1	66.57	-	-	-	-	68.2	-1.63	213	145	H
5	5.863	51.59	PK-U	34.9	-20.4	66.09	-	-	-	-	68.2	-2.11	12	391	V
2	5.869	52.08	PK-U	34.9	-20.4	66.58	-	-	-	-	68.2	-1.62	216	199	H
6	5.938	48.44	PK-U	35	-20.3	63.14	-	-	-	-	68.2	-5.06	121	137	V
3	6.026	48.9	PK-U	35.2	-20	64.1	-	-	-	-	68.2	-4.1	219	200	H

PK-U - U-NII: Maximum Peak

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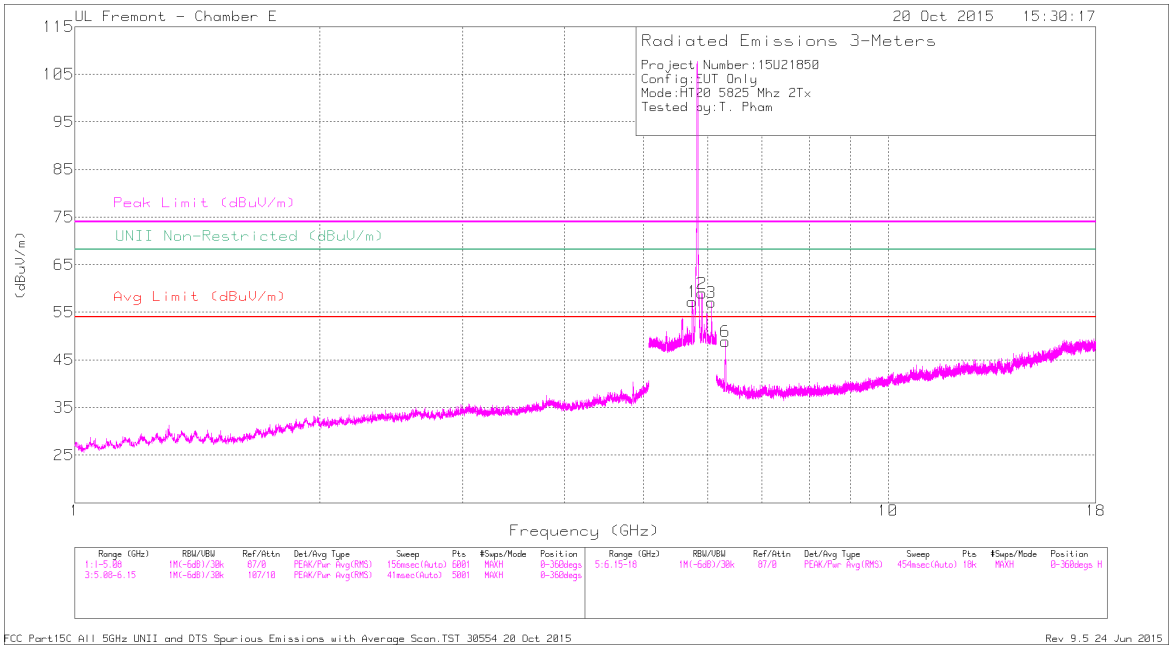
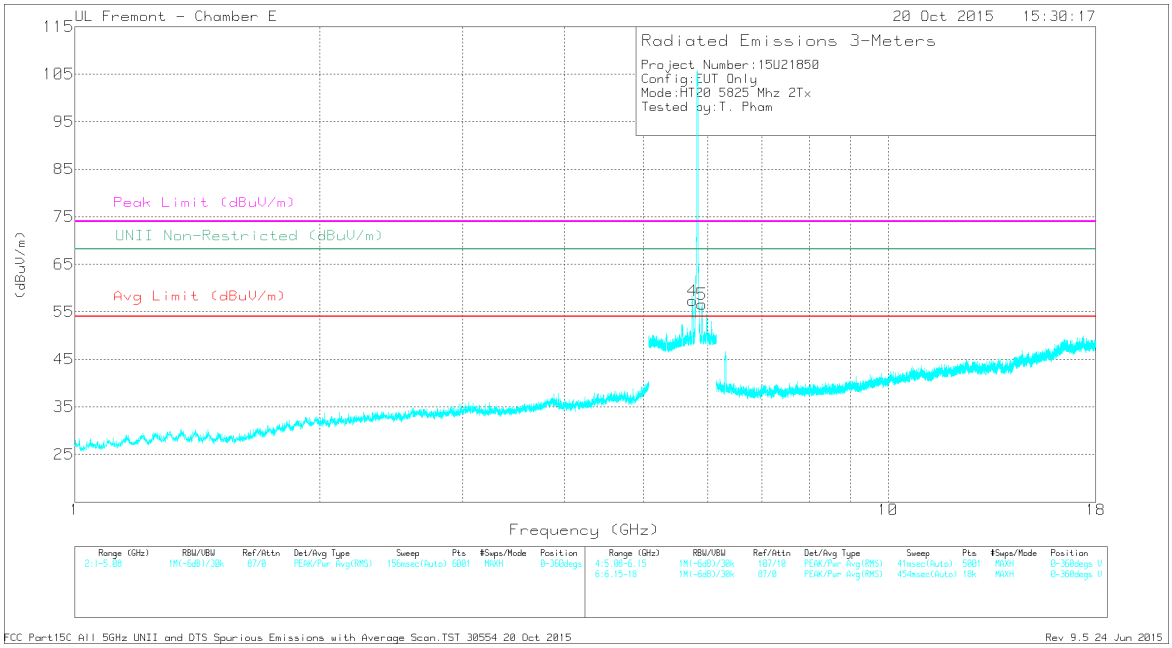
HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/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	5.738	51.39	PK-U	34.7	-20.1	65.99	-	-	-	-	68.2	-2.21	232	227	V
1	5.739	51.86	PK-U	34.7	-20.1	66.46	-	-	-	-	68.2	-1.74	200	210	H
2	5.907	52.79	PK-U	34.9	-20.3	67.39	-	-	-	-	68.2	-.81	223	214	H
5	5.909	51.76	PK-U	34.9	-20.3	66.36	-	-	-	-	68.2	-1.84	234	249	V
3	6.068	48.83	PK-U	35.2	-19.7	64.33	-	-	-	-	68.2	-3.87	215	210	H
6	6.308	48.65	PK-U	35.4	-28.5	55.55	-	-	-	-	68.2	-12.65	114	171	H

PK-U - U-NII: Maximum Peak

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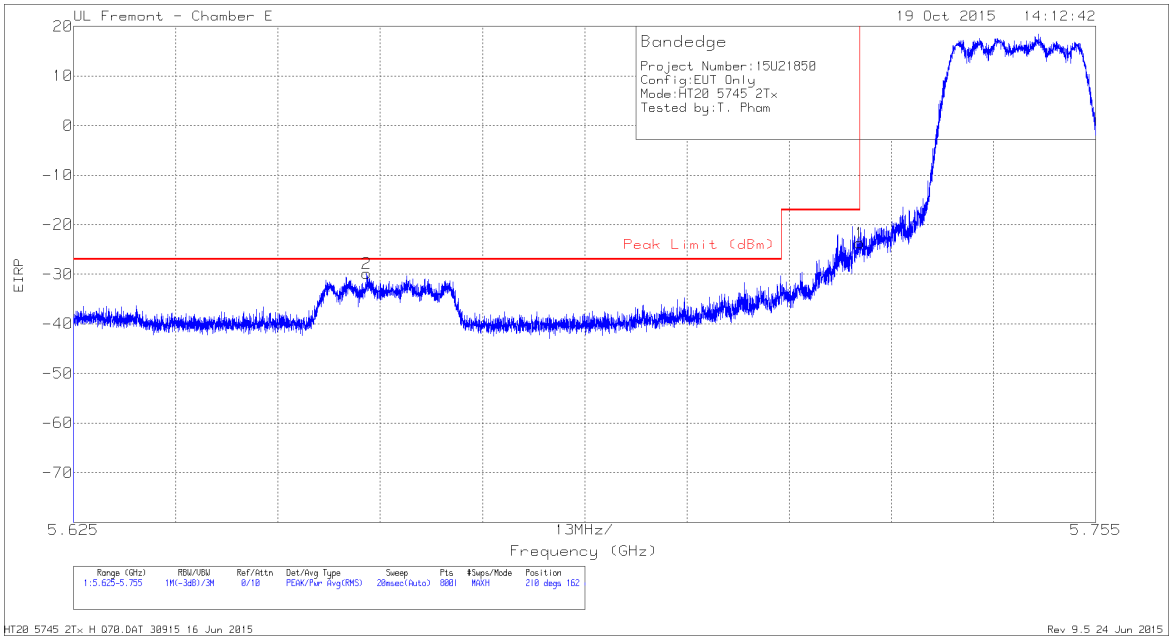
RESTRICTED BANDEDGE CHAIN 1 + 2 (LOW CHANNEL)

LOW CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.662	-56.1	Pk	34.6	-20.1	11.8	-29.8	-27	-2.8	210	162	H
1	5.725	-50.1	Pk	34.7	-20.1	11.8	-23.7	-17	-6.7	210	162	H

Pk - Peak detector

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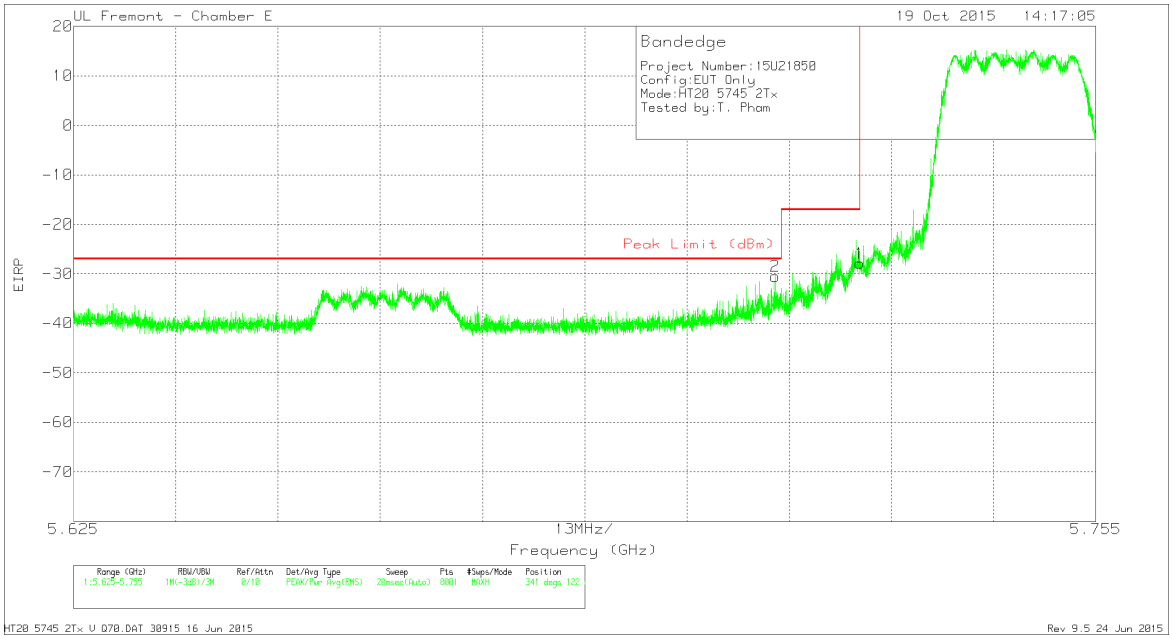
LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.714	-56.9	Pk	34.7	-20.1	11.8	-30.5	-27	-3.5	341	122	V
1	5.725	-54.22	Pk	34.7	-20.1	11.8	-27.82	-17	-10.82	341	122	V

Pk - Peak detector

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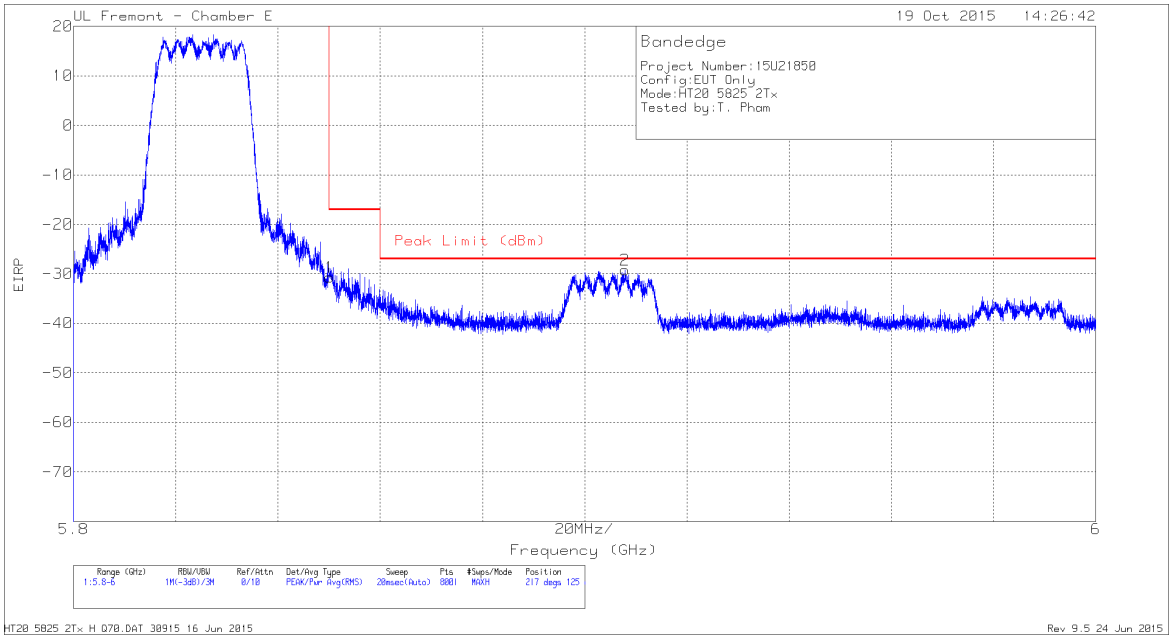
RESTRICTED BANDEDGE CHAIN 1 + 2 (HIGH CHANNEL)

HIGH CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-57.1	Pk	34.9	-20.3	11.8	-30.7	-17	-13.7	217	125	H
2	5.908	-55.62	Pk	34.9	-20.3	11.8	-29.22	-27	-2.22	217	125	H

Pk - Peak detector

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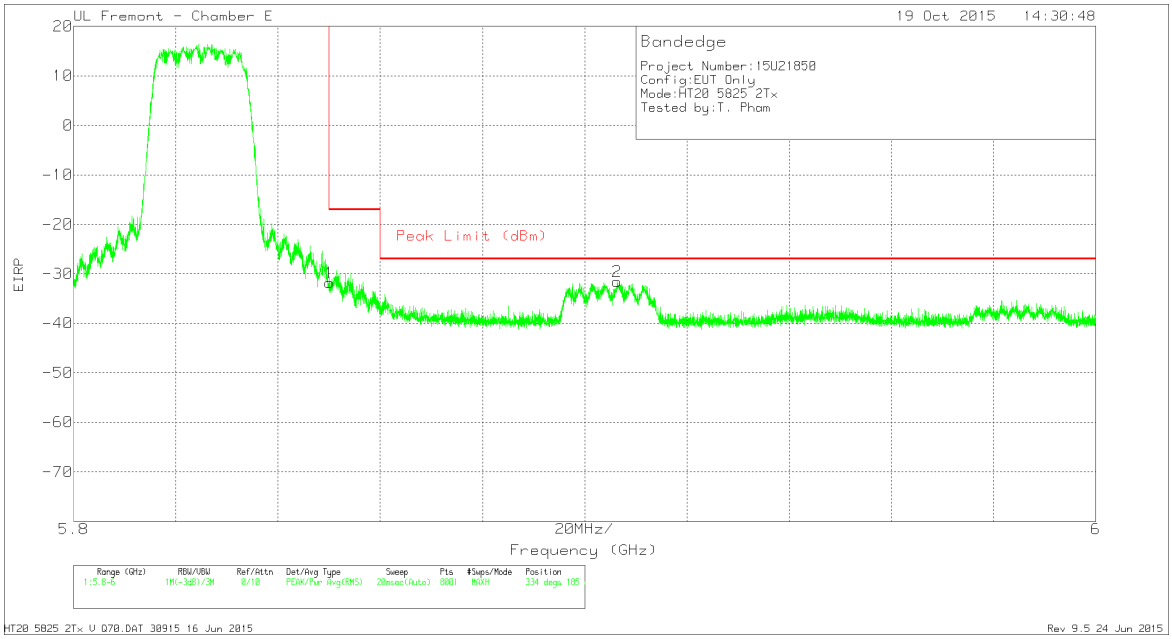
HIGH CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-58.17	Pk	34.9	-20.3	11.8	-31.77	-17	-14.77	334	185	V
2	5.906	-57.9	Pk	34.9	-20.3	11.8	-31.5	-27	-4.5	334	185	V

Pk - Peak detector

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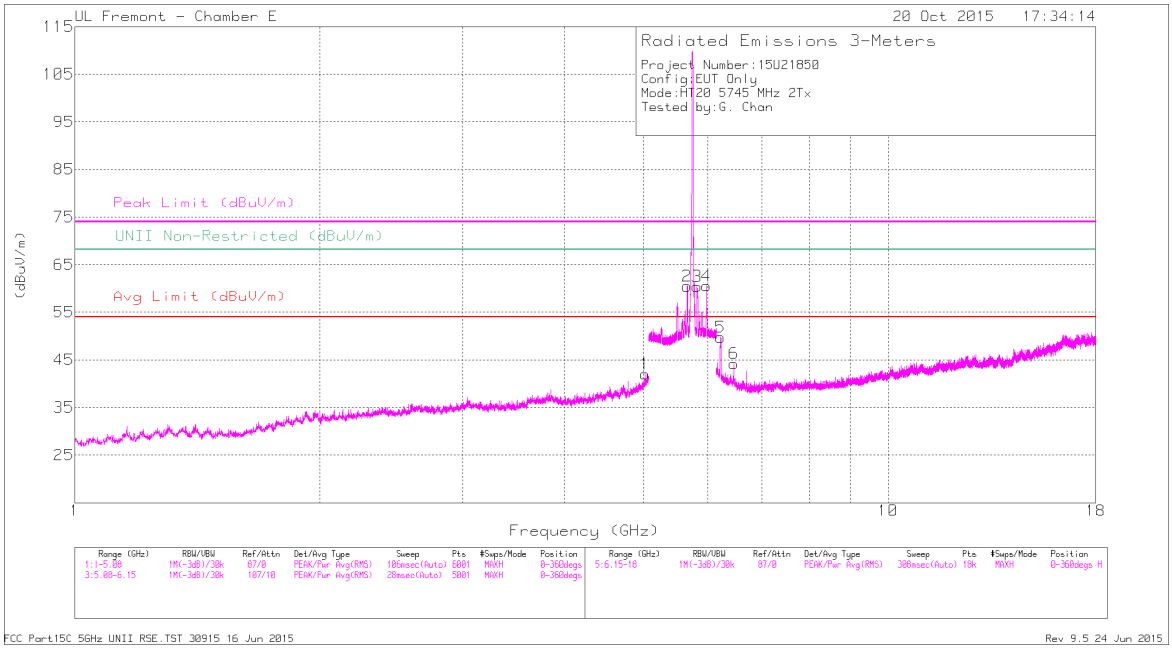
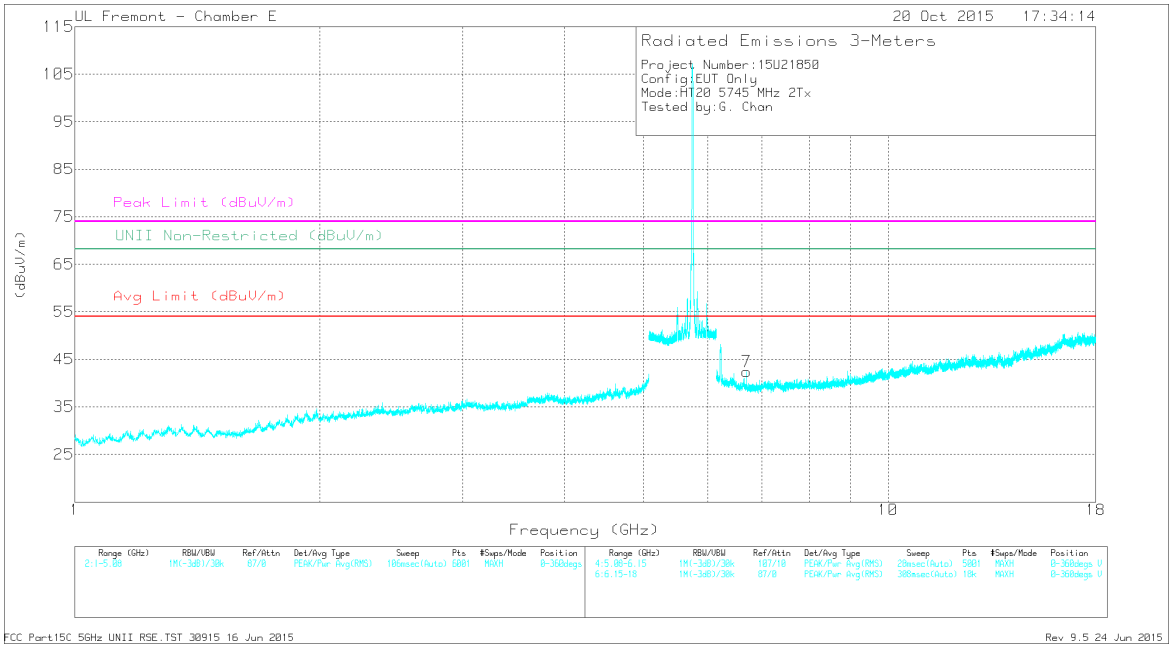
LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/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	* 5.027	42.72	PK-U	34.2	-28.5	48.42	-	-	74	-25.58	-	-	222	293	H
	* 5.027	32.32	ADR	34.2	-28.5	38.02	54	-15.98	-	-	-	-	222	293	H
2	5.663	52.39	PK-U	34.6	-20.1	66.89	-	-	-	-	68.2	-1.31	352	101	H
3	5.823	52.03	PK-U	34.9	-20.1	66.83	-	-	-	-	68.2	-1.37	296	201	H
4	5.984	49.52	PK-U	35.1	-20	64.62	-	-	-	-	68.2	-3.58	299	174	H
5	6.223	50.64	PK-U	35.4	-28	58.04	-	-	-	-	68.2	-10.16	294	229	H
6	6.463	44.52	PK-U	35.5	-28.7	51.32	-	-	-	-	68.2	-16.88	246	269	H
7	6.702	42.31	PK-U	35.6	-28.1	49.81	-	-	-	-	68.2	-18.39	4	126	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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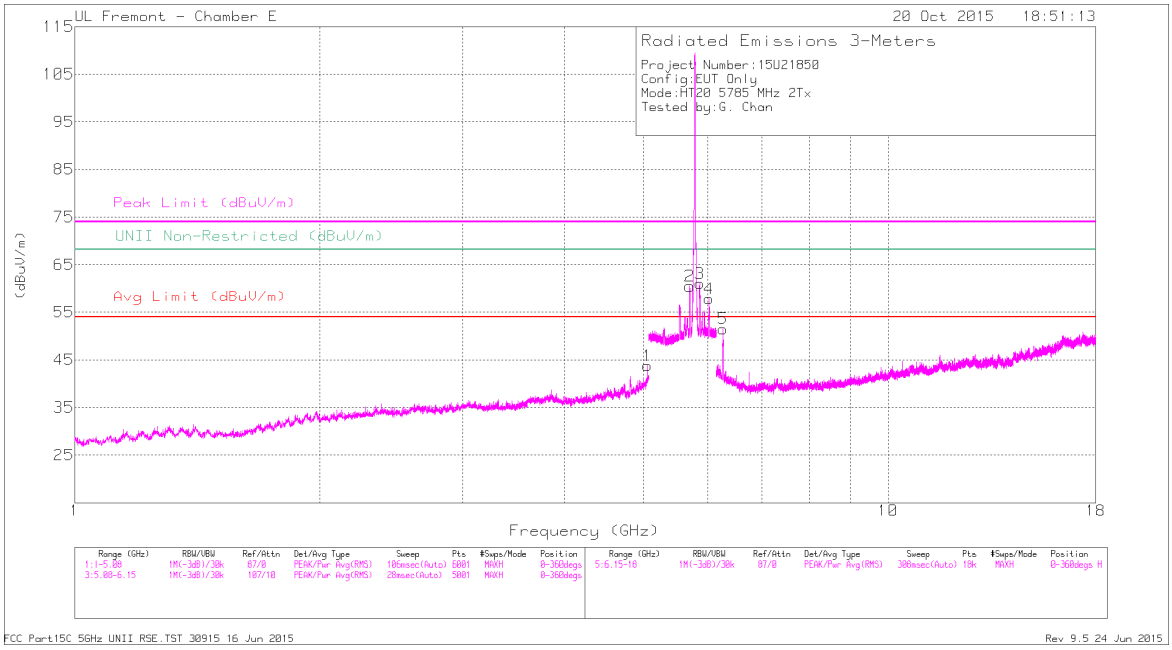
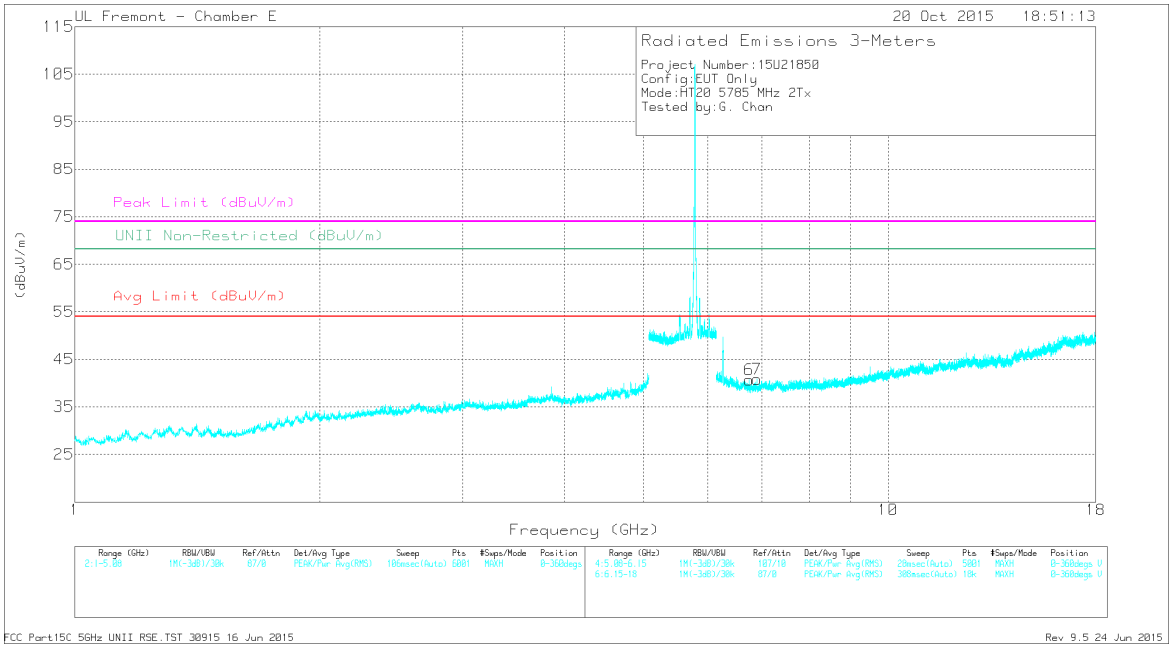
MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/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	* 5.062	44.82	PK-U	34.2	-27.9	51.12	-	-	74	-22.88	-	-	273	193	H
	* 5.062	34.65	ADR	34.2	-27.9	40.95	54	-13.05	-	-	-	-	273	193	H
2	5.704	51.85	PK-U	34.7	-20.1	66.45	-	-	-	-	68.2	-1.75	353	238	H
3	5.866	52.04	PK-U	34.9	-20.4	66.54	-	-	-	-	68.2	-1.66	296	183	H
4	6.026	49.73	PK-U	35.2	-20	64.93	-	-	-	-	68.2	-3.27	286	238	H
5	6.267	51.44	PK-U	35.4	-28.3	58.54	-	-	-	-	68.2	-9.66	261	170	H
6	6.749	41.04	PK-U	35.6	-28.3	48.34	-	-	-	-	68.2	-19.86	4	124	V
7	6.896	39.21	PK-U	35.6	-27.9	46.91	-	-	-	-	68.2	-21.29	318	115	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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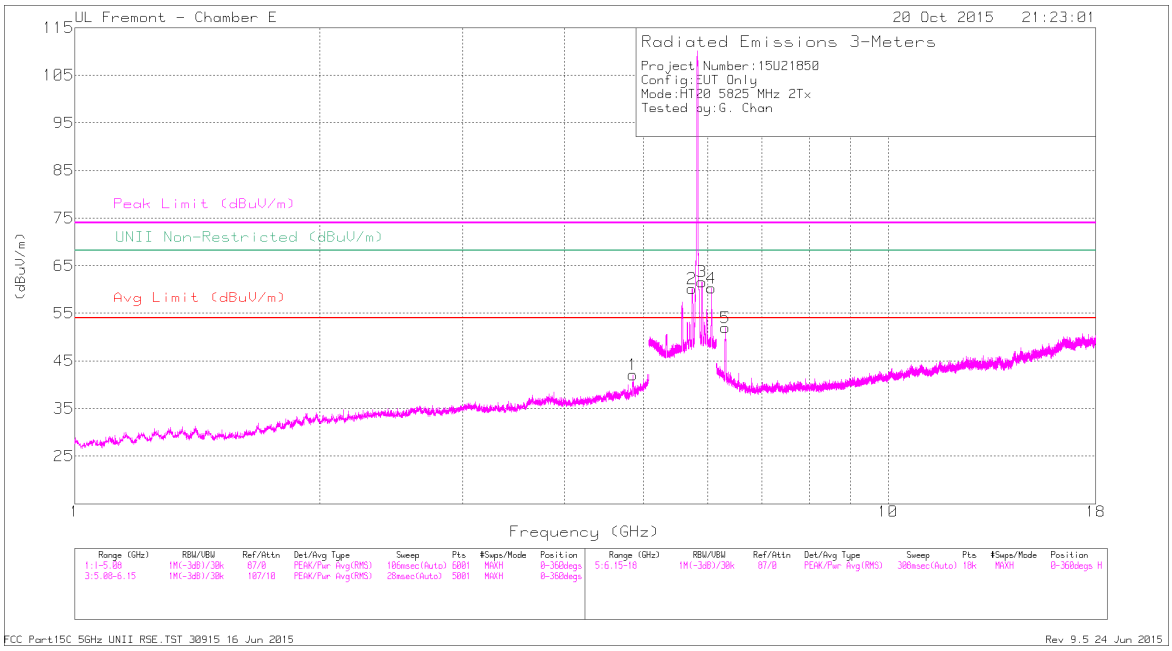
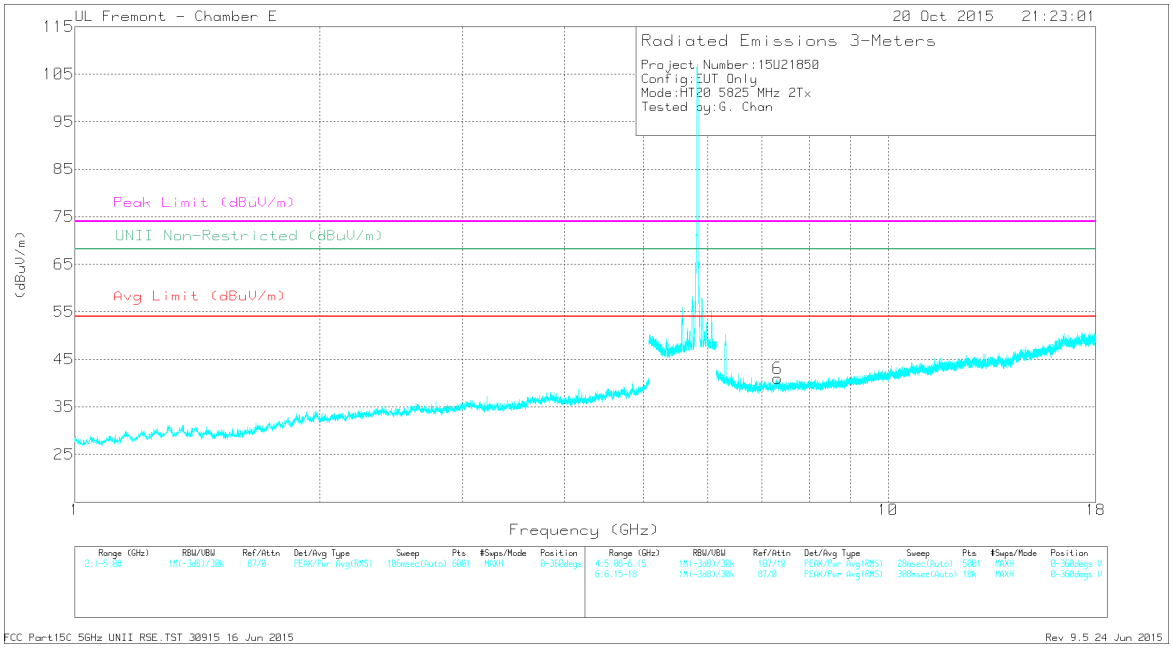
HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/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	* 4.855	44.95	PK-U	34.1	-29.1	49.95	-	-	74	-24.05	-	-	292	375	H
	* 4.854	37.49	ADR	34.1	-29.1	42.49	54	-11.51	-	-	-	-	292	375	H
6	* 7.314	38.03	PK-U	35.5	-26.1	47.43	-	-	74	-26.57	-	-	99	236	V
	* 7.313	26.42	ADR	35.5	-26.1	35.82	54	-18.18	-	-	-	-	99	236	V
2	5.744	50.73	PK-U	34.7	-19.9	65.53	-	-	-	-	68.2	-2.67	356	109	H
3	5.903	49.84	PK-U	34.9	-19.5	65.24	-	-	-	-	68.2	-2.96	263	149	H
4	6.068	49.05	PK-U	35.2	-19.1	65.15	-	-	-	-	68.2	-3.05	295	248	H
5	6.311	50.68	PK-U	35.4	-28.5	57.58	-	-	-	-	68.2	-10.62	291	233	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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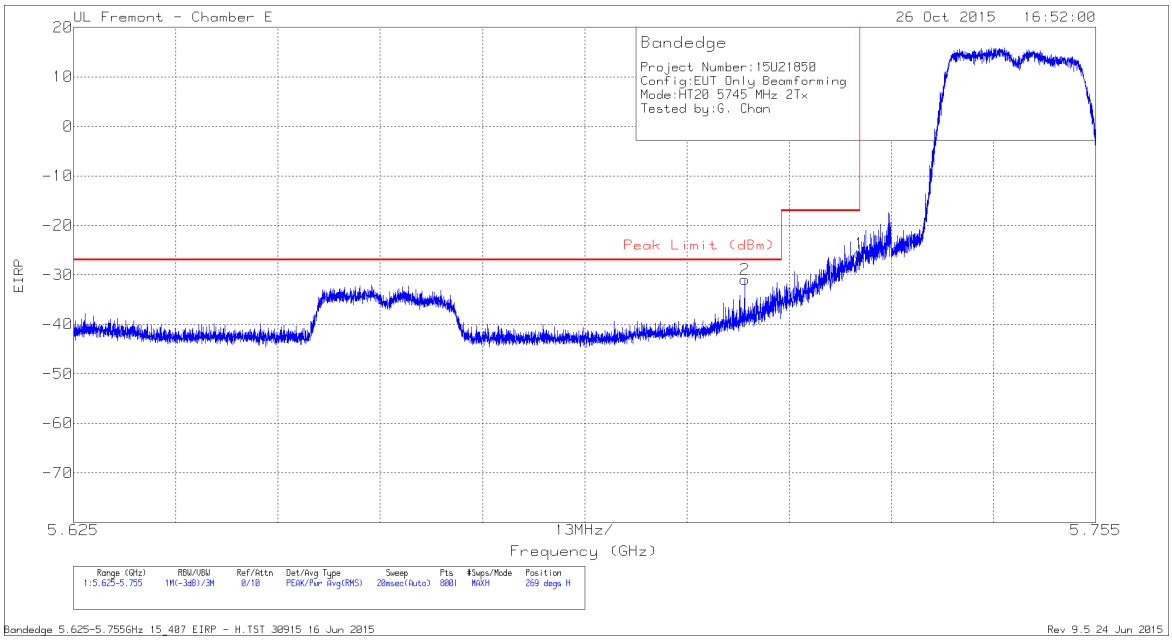
9.5. 802.11n HT20 2TX BF MODE IN THE 5.8 GHz BAND

RESTRICTED BANDEDGE CHAIN 0 + 1 (LOW CHANNEL)

LOW CHANNEL HORIZONTAL PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.71	-57.68	Pk	34.7	-19.8	11.8	-30.98	-27	-3.98	269	119	H
1	5.725	-52.31	Pk	34.7	-19.8	11.8	-25.61	-17	-8.61	269	119	H

Pk - Peak detector

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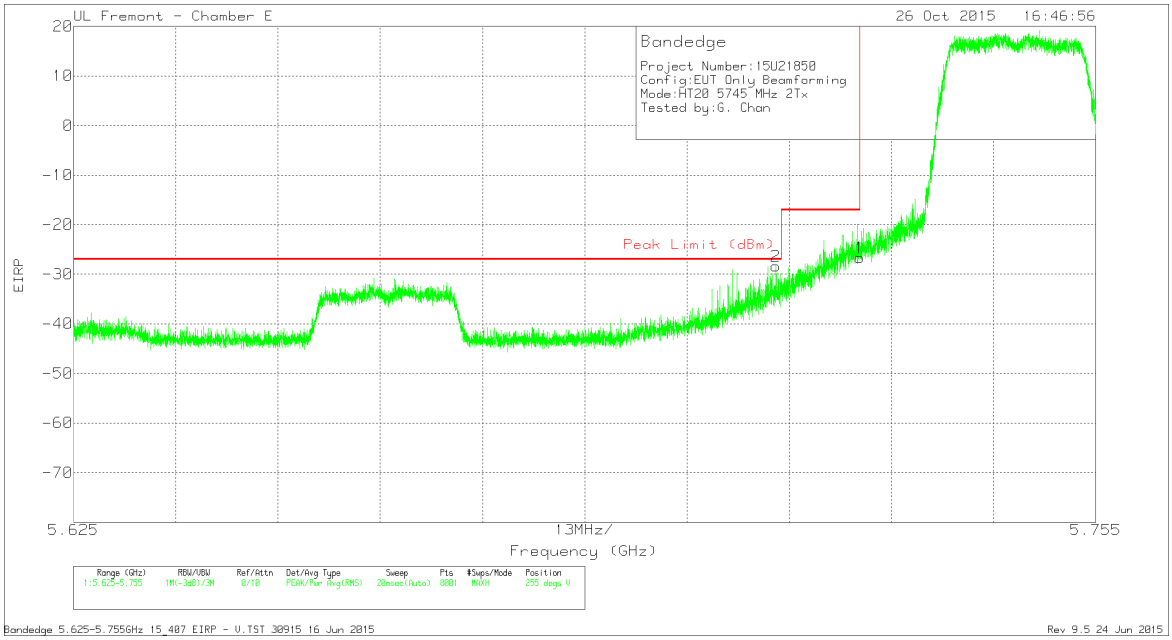
LOW CHANNEL VERTICAL PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.714	-55.1	Pk	34.7	-19.8	11.8	-28.4	-27	-1.4	255	270	V
1	5.725	-53.31	Pk	34.7	-19.8	11.8	-26.61	-17	-9.61	255	270	V

Pk - Peak detector

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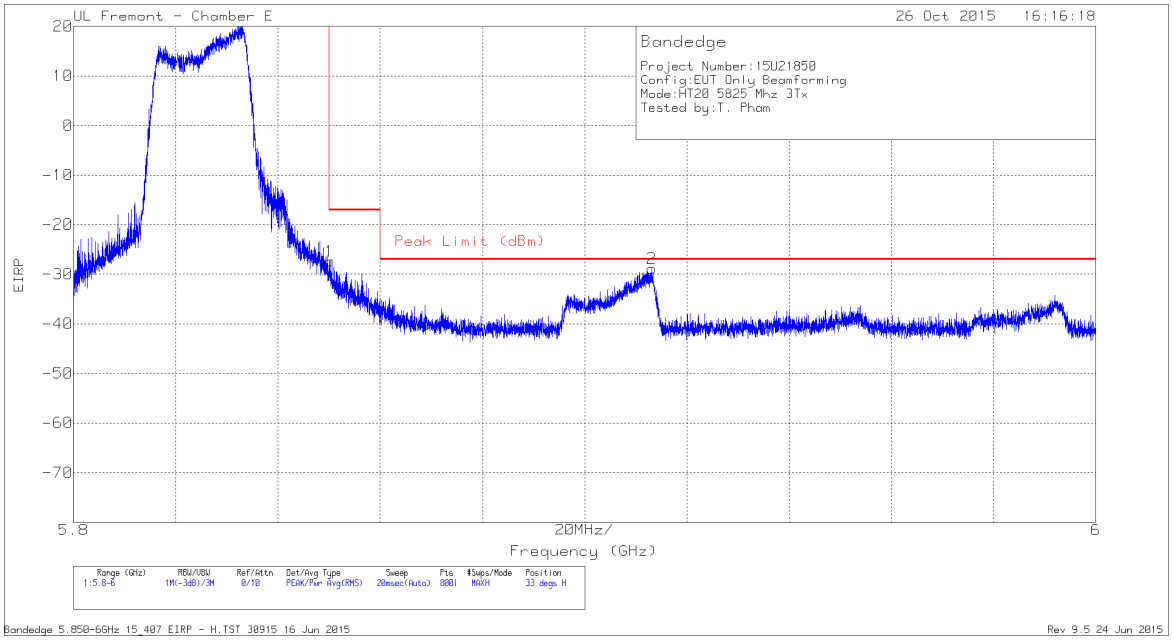
RESTRICTED BANDEDGE CHAIN 0 + 1 (HIGH CHANNEL)

HIGH CHANNEL HORIZONTAL PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-53.72	Pk	34.9	-20.3	11.8	-27.32	-17	-10.32	33	302	H
2	5.913	-55.39	Pk	35	-20.3	11.8	-28.89	-27	-1.89	33	302	H

Pk - Peak detector

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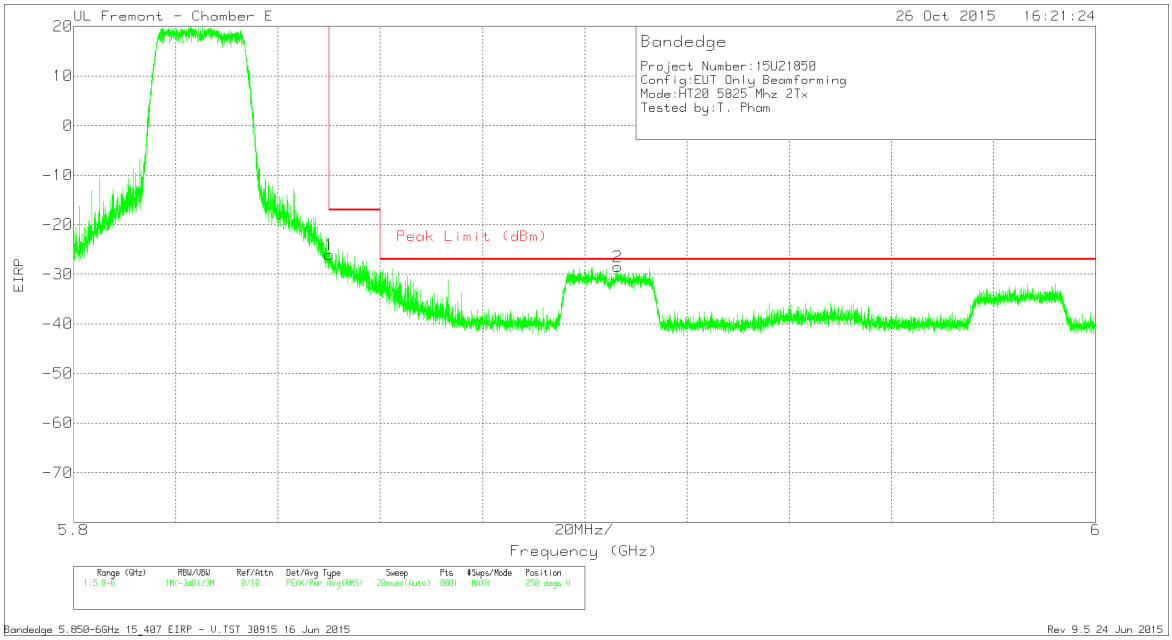
HIGH CHANNEL VERTICAL PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-52.45	Pk	34.9	-20.3	11.8	-26.05	-17	-9.05	250	238	V
2	5.906	-54.87	Pk	34.9	-20.3	11.8	-28.47	-27	-1.47	250	238	V

Pk - Peak detector

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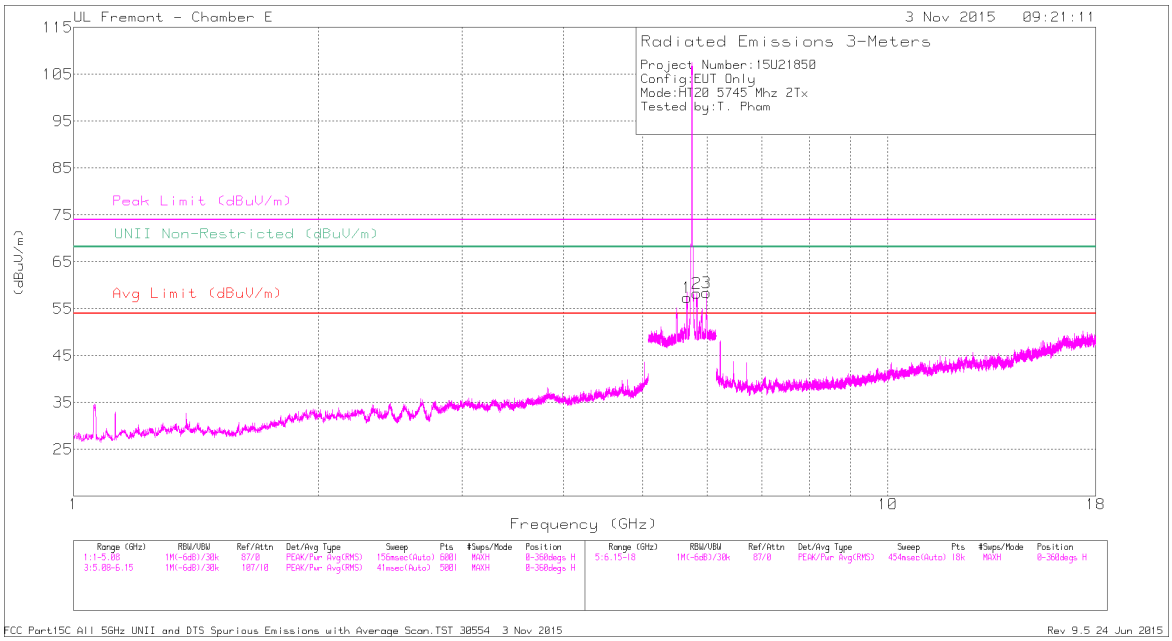
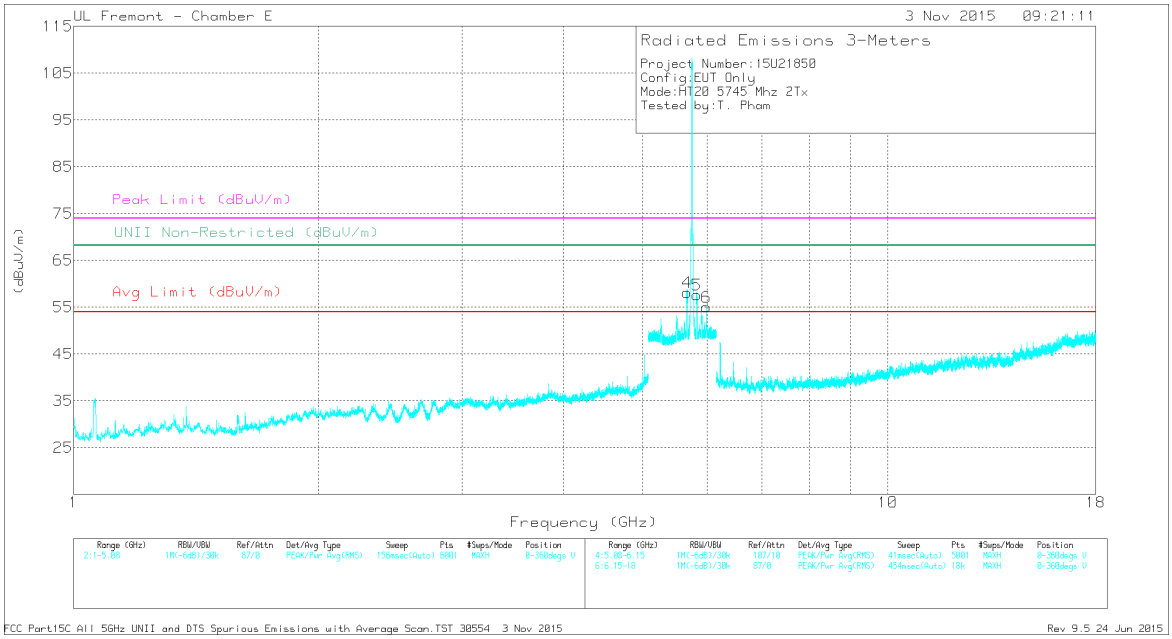
LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/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	5.666	50.42	PK-U	34.6	-20.1	64.92	-	-	-	-	68.2	-3.28	297	164	H
4	5.667	52.61	PK-U	34.6	-20.1	67.11	-	-	-	-	68.2	-1.09	228	205	V
5	5.826	51.14	PK-U	34.9	-20.2	65.84	-	-	-	-	68.2	-2.36	226	224	V
2	5.831	51.74	PK-U	34.9	-20.2	66.44	-	-	-	-	68.2	-1.76	299	210	H
3	5.984	50.6	PK-U	35.1	-20	65.7	-	-	-	-	68.2	-2.5	310	200	H
6	5.984	48.26	PK-U	35.1	-20	63.36	-	-	-	-	68.2	-4.84	221	245	V

PK-U - U-NII: Maximum Peak
FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30554 3 Nov 2015
Rev 9.5 24 Jun 2015

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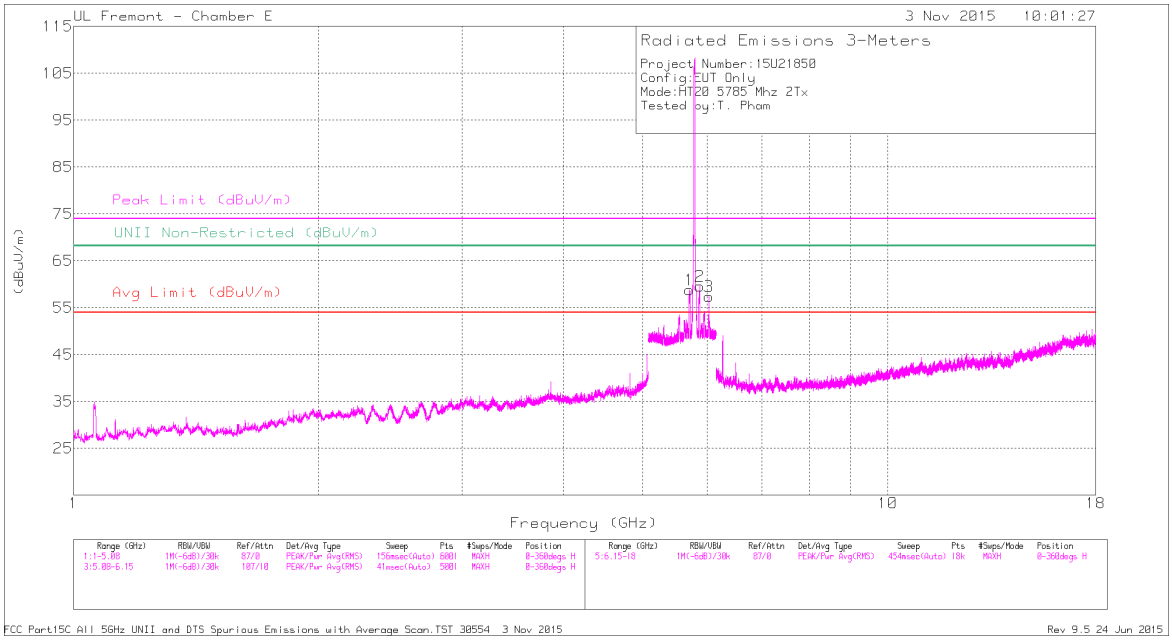
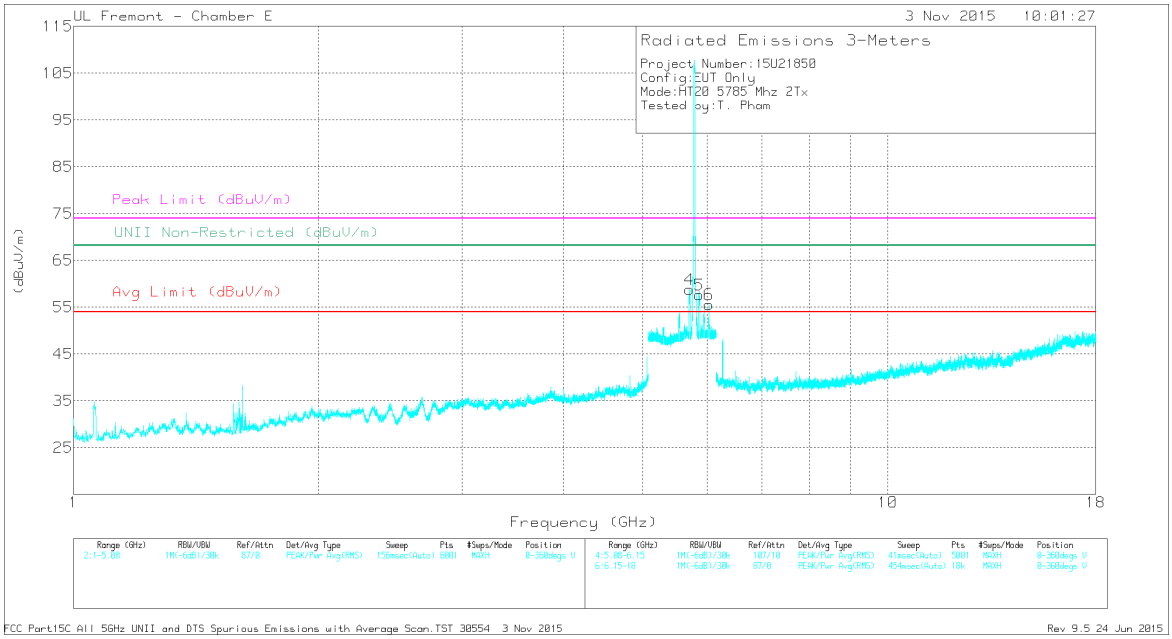
MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/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	5.703	51.64	PK-U	34.7	-20.1	66.24	-	-	-	-	68.2	-1.96	228	202	V
4	5.706	52.85	PK-U	34.7	-20.1	67.45	-	-	-	-	68.2	-.75	202	205	H
5	5.863	51.11	PK-U	34.9	-20.4	65.61	-	-	-	-	68.2	-2.59	10	218	V
2	5.872	51.65	PK-U	34.9	-20.4	66.15	-	-	-	-	68.2	-2.05	298	163	H
3	6.026	49.92	PK-U	35.2	-20	65.12	-	-	-	-	68.2	-3.08	282	227	H
6	6.026	47.62	PK-U	35.2	-20	62.82	-	-	-	-	68.2	-5.38	226	342	V

PK-U - U-NII: Maximum Peak
FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30554 3 Nov 2015
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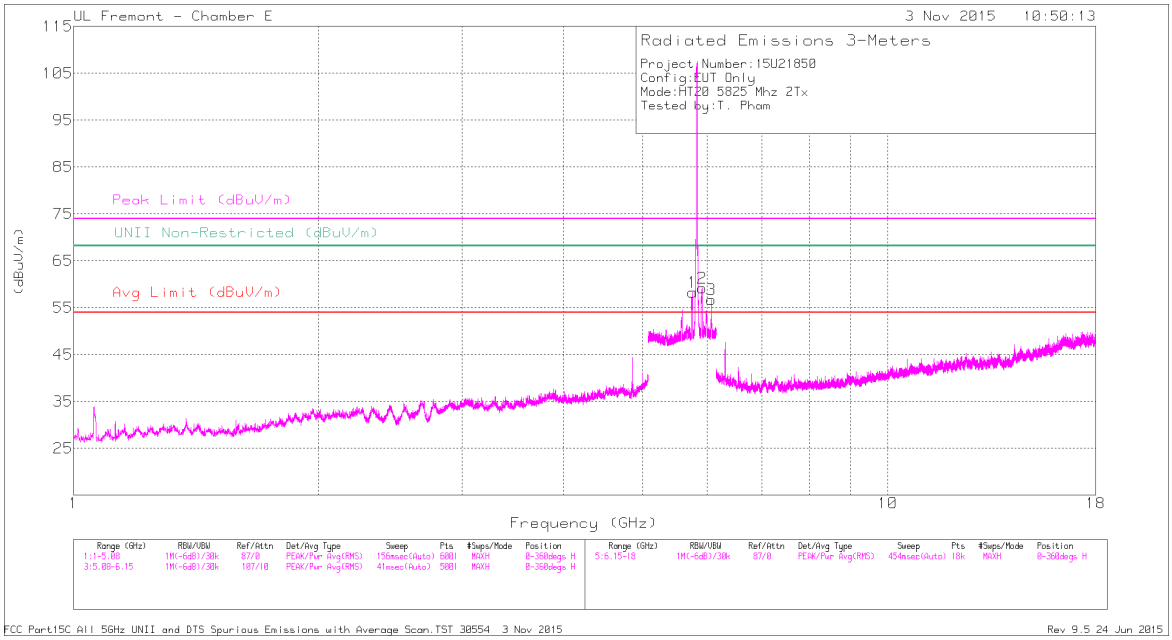
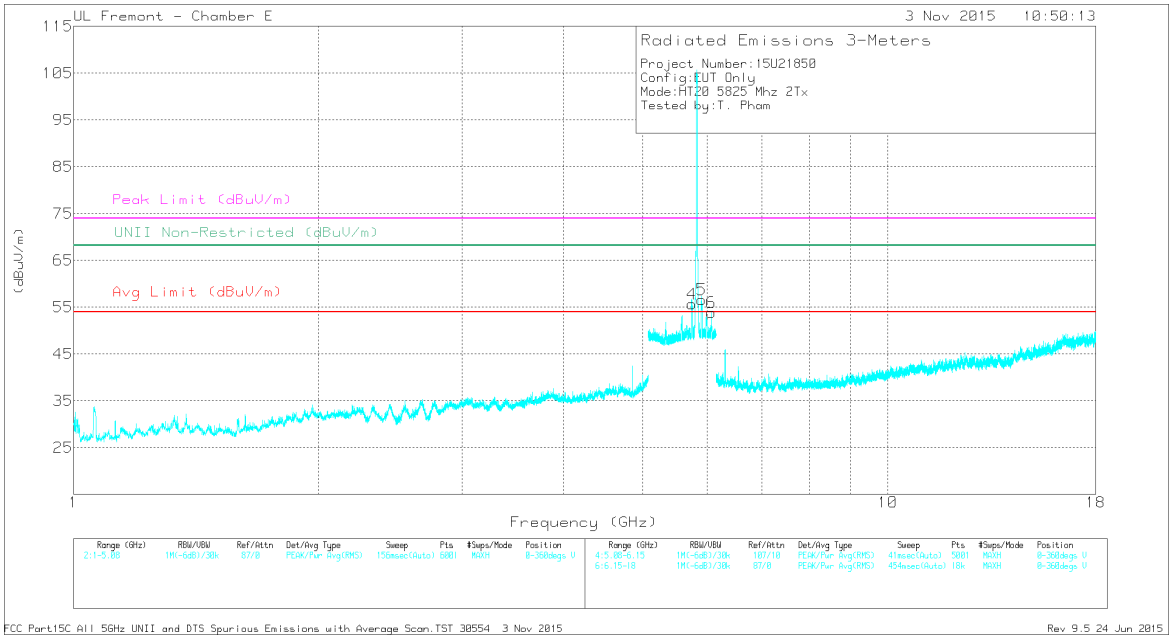
HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/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	5.744	50.07	PK-U	34.7	-20	64.77	-	-	-	-	68.2	-3.43	237	218	V
1	5.747	51.38	PK-U	34.8	-20	66.18	-	-	-	-	68.2	-2.02	211	151	H
5	5.907	52.5	PK-U	34.9	-20.3	67.1	-	-	-	-	68.2	-1.1	12	171	V
2	5.912	51.64	PK-U	35	-20.3	66.34	-	-	-	-	68.2	-1.86	210	113	H
3	6.068	48.4	PK-U	35.2	-19.7	63.9	-	-	-	-	68.2	-4.3	311	192	H
6	6.068	47.1	PK-U	35.2	-19.7	62.6	-	-	-	-	68.2	-5.6	215	208	V

PK-U - U-NII: Maximum Peak
FCC Part15C All 5GHz UNII and DTS Spurious Emissions with Average Scan.TST 30554 3 Nov 2015
Rev 9.5 24 Jun 2015

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