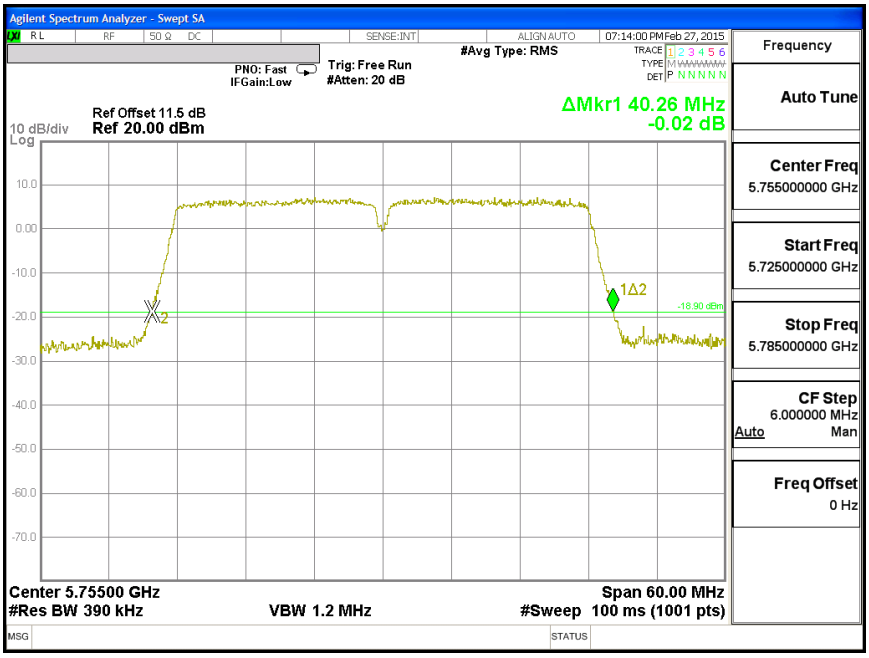
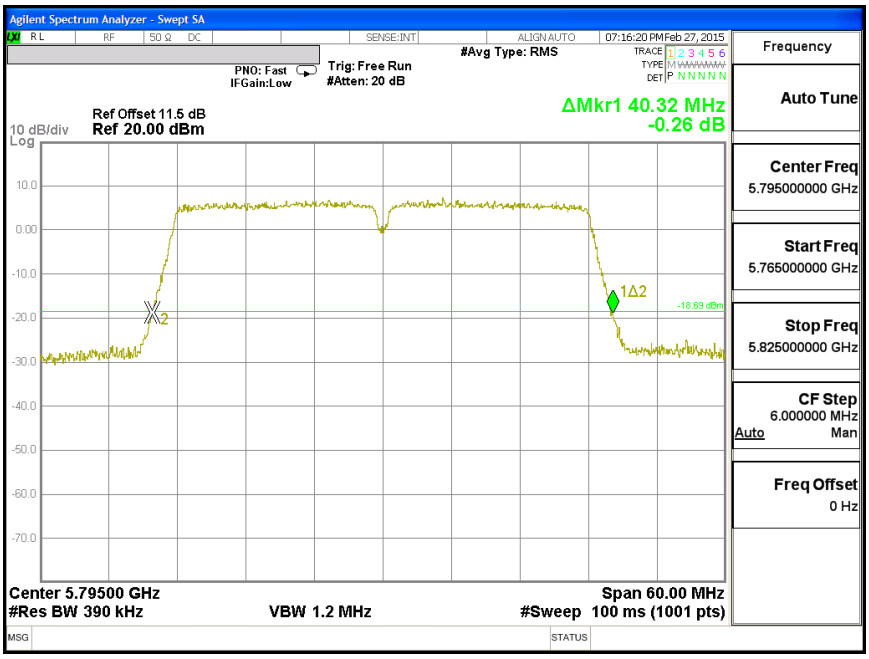
26 dB BANDWIDTH, ANTENNA B

26 dB BANDWIDTH ANTENNA B LOW CH



26 dB BANDWIDTH ANTENNA B HIGH CH



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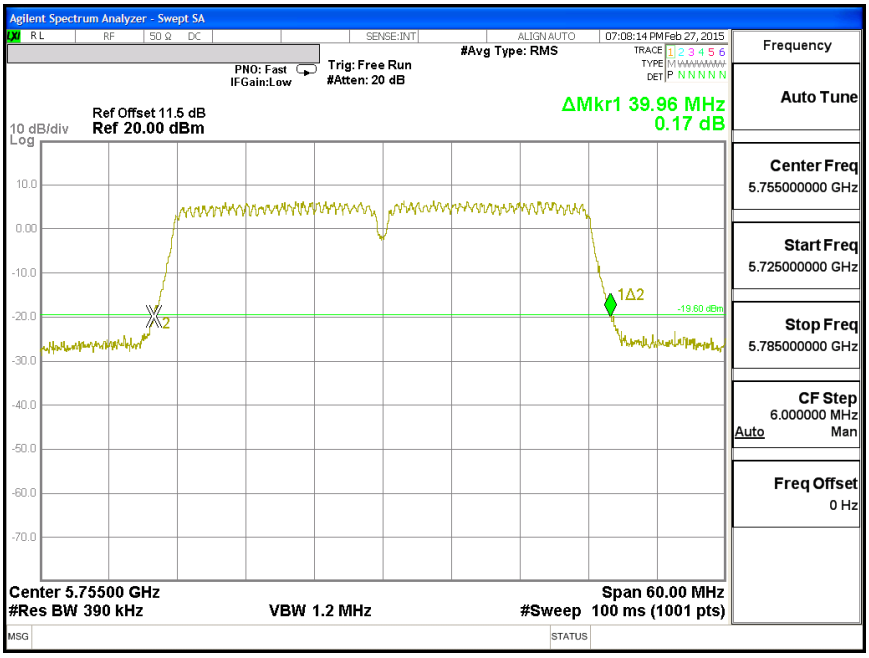
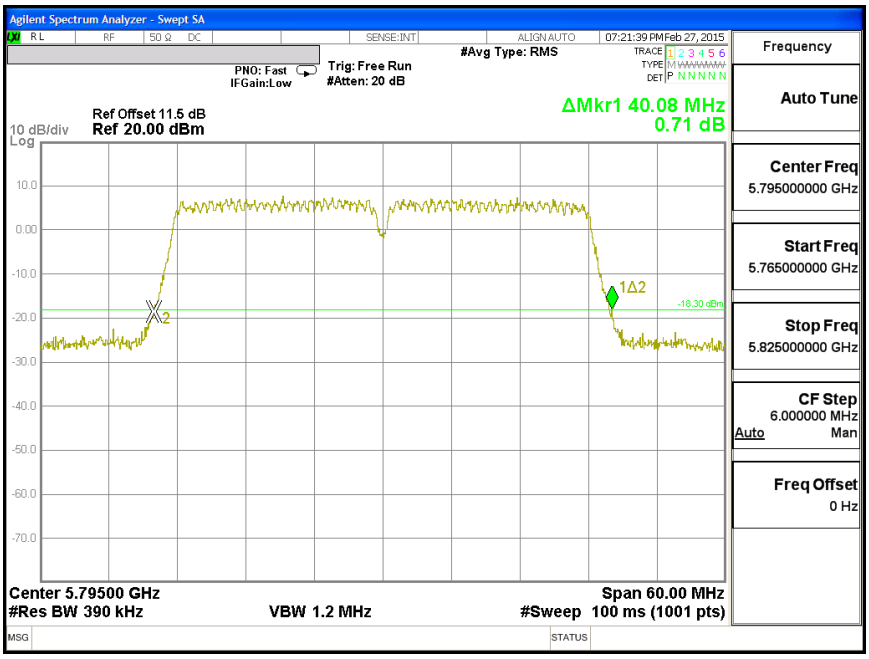
26 dB BANDWIDTH, ANTENNA A

26 dB BANDWIDTH ANTENNA A LOW CH



26 dB BANDWIDTH ANTENNA A HIGH CH



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8.37.3. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% BW Antenna B (MHz)	99% BW Antenna A (MHz)
Low	5755	36.2490	36.3010
High	5795	36.2690	36.2810

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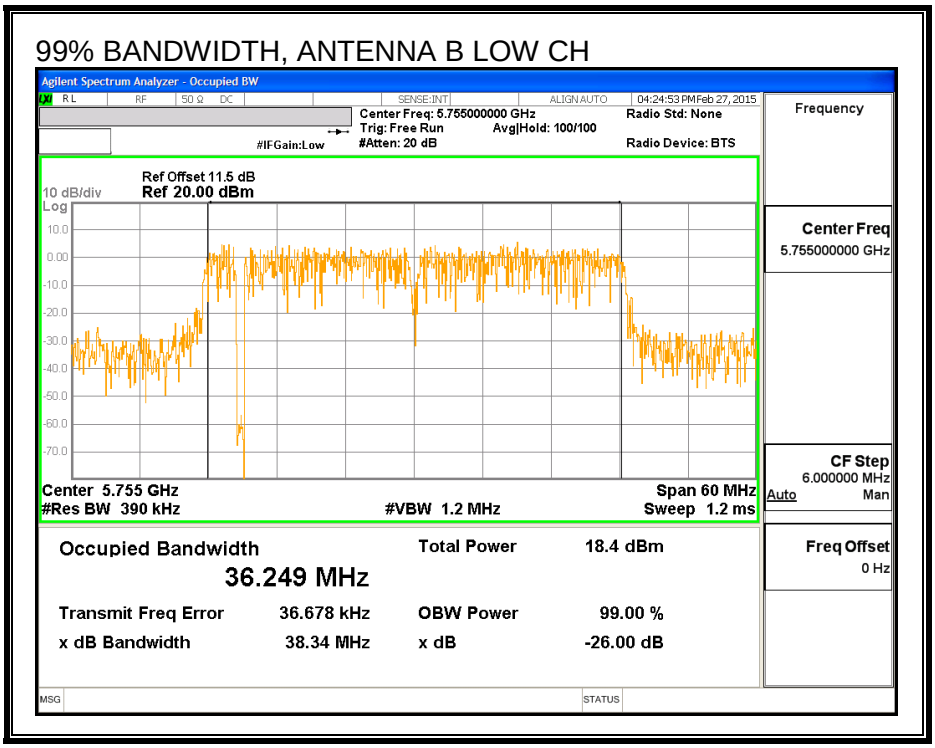
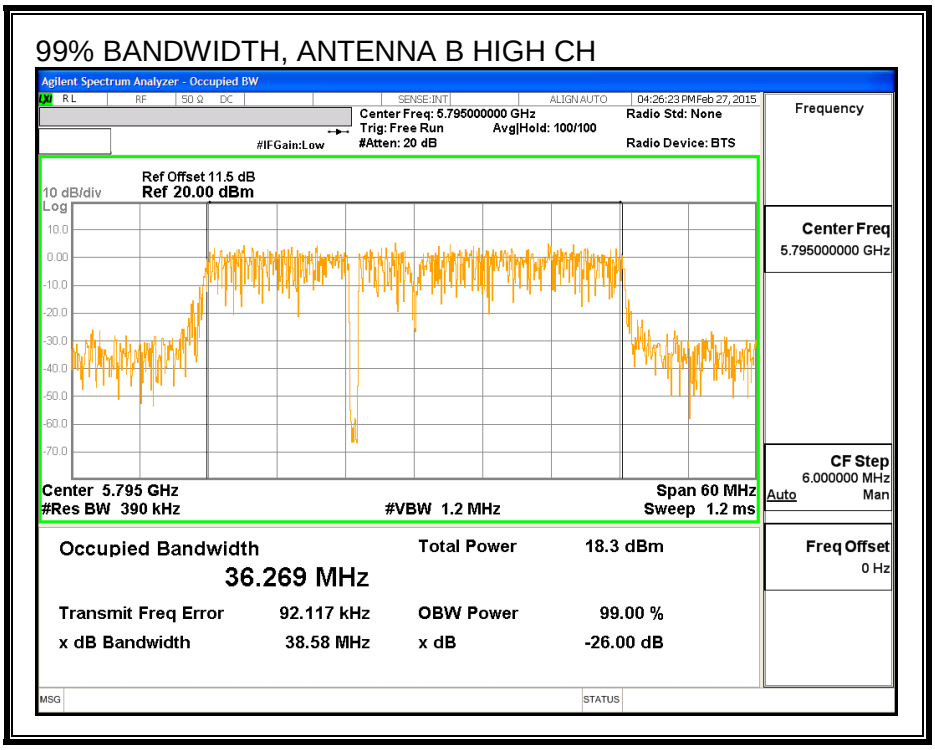
99% BANDWIDTH, ANTENNA B





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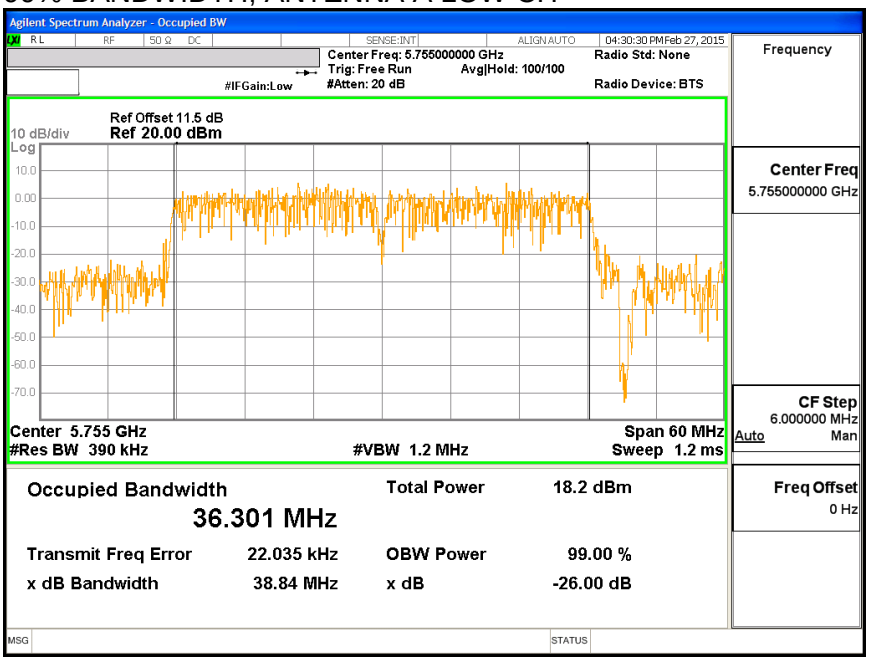
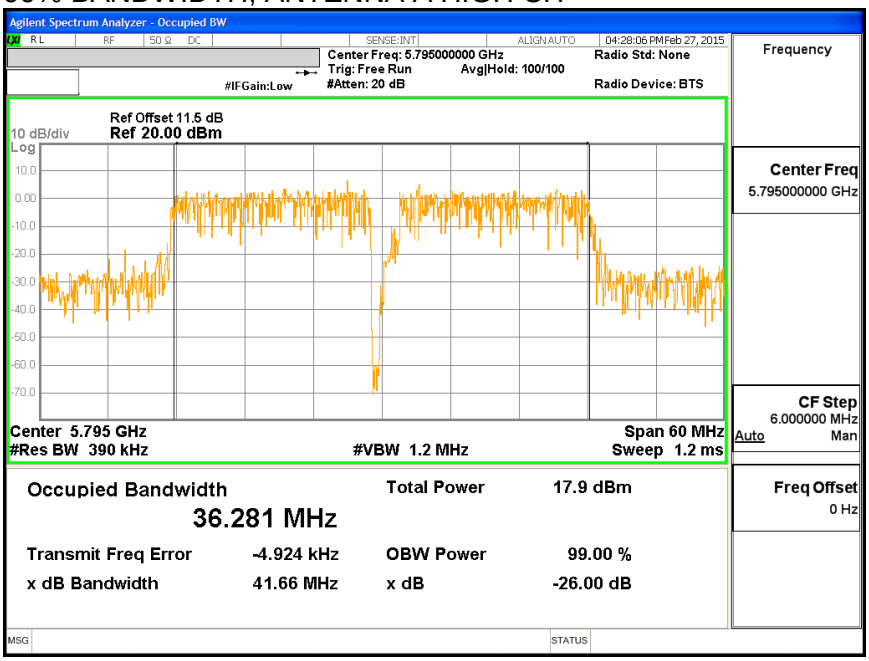
99% BANDWIDTH, ANTENNA A

99% BANDWIDTH, ANTENNA A LOW CH



99% BANDWIDTH, ANTENNA A HIGH CH



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8.37.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	Antenna B Power (dBm)	Antenna A Power (dBm)	Total Power (dBm)
Low	5755	12.92	13.05	16.00
High	5795	14.90	14.93	17.93

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8.37.5. 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.

DIRECTIONAL ANTENNA GAIN

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

Antenna B Antenna Gain (dBi)	Antenna A Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
4.90	3.40	4.21

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RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Low	5755	4.21	30.00
High	5795	4.21	30.00

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd Power**

Output Power Results

Channel	Frequency (MHz)	Antenna B Meas Power (dBm)	Antenna A Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	12.92	13.05	16.00	30.00	-14.00
High	5795	14.90	14.93	17.93	30.00	-12.07

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8.37.6. MAXIMUM POWER SPECTRAL DENSITY (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:

Antenna B Antenna Gain (dBi)	Antenna A Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
4.90	3.40	7.19

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RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	PSD Limit (dBm)
Low	5755	7.19	28.81
High	5795	7.19	28.81

Duty Cycle CF (dB)	0.00	**Included in Calculations of Corr'd PSD**

PSD Results

Channel	Frequency (MHz)	Antenna B Meas PSD (dBm)	Antenna A Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5755	-3.76	-2.96	-0.33	28.81	-29.14
High	5795	-1.60	-0.83	1.81	28.81	-27.00

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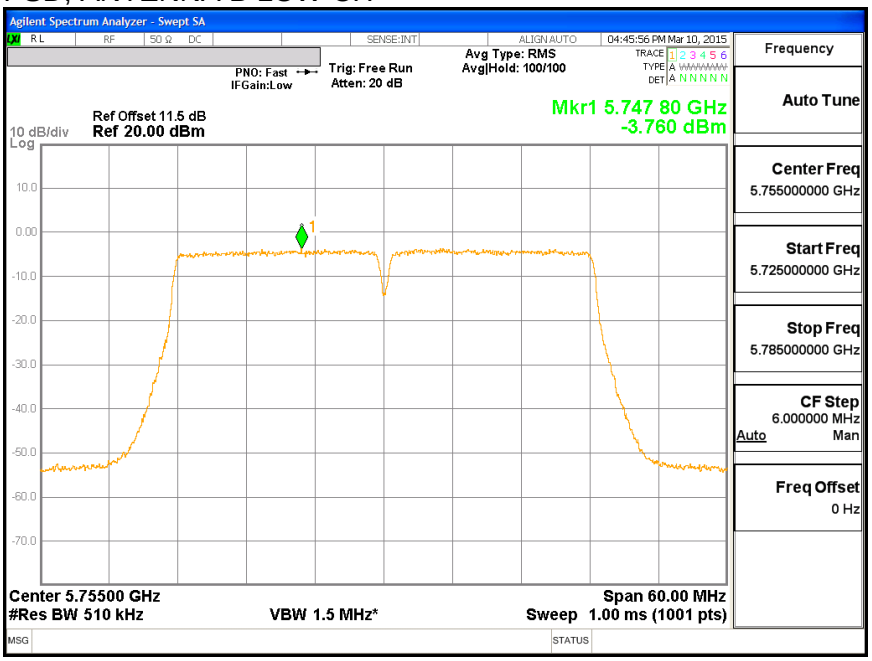
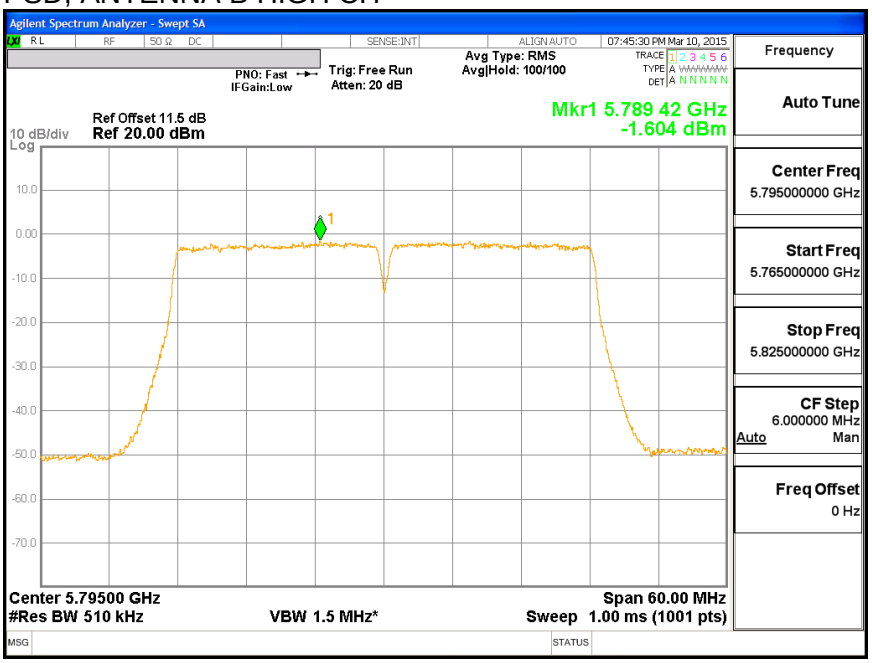
PSD, ANTENNA B

PSD, ANTENNA B LOW CH



PSD, ANTENNA B HIGH CH



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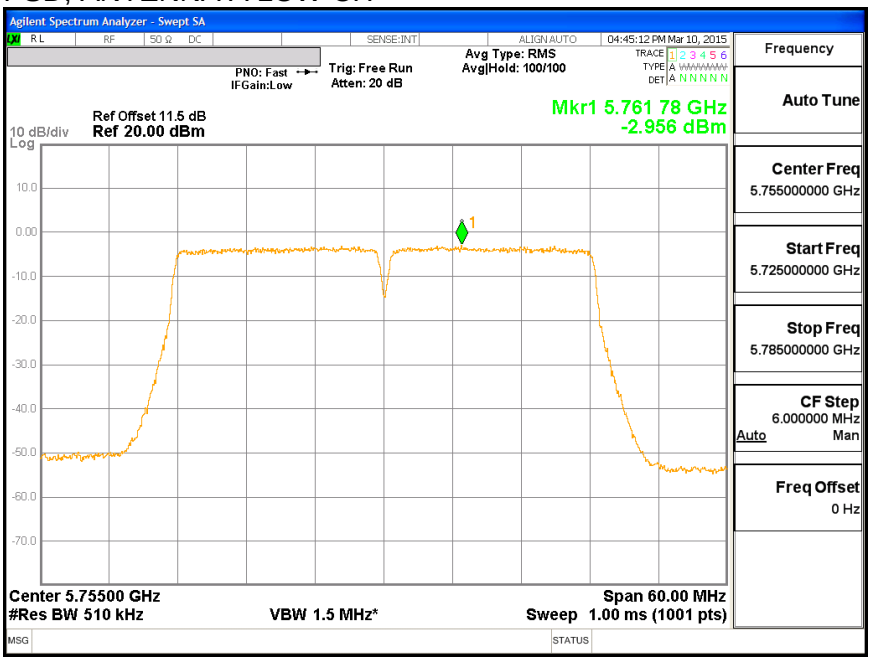
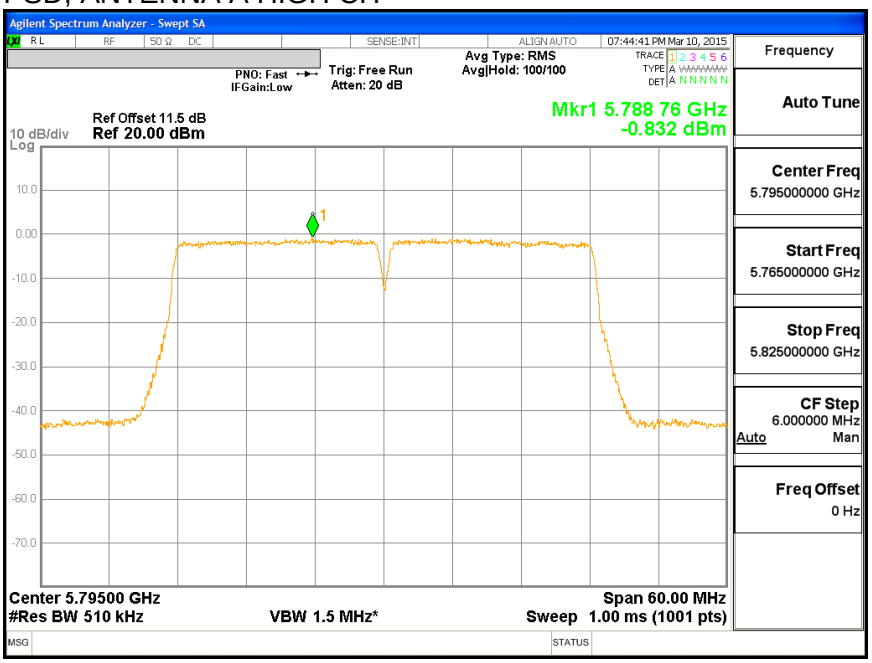
PSD, ANTENNA A

PSD, ANTENNA A LOW CH



PSD, ANTENNA A HIGH CH



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8.38. 802.11ac VHT80 SISO MODE IN THE 5.8 GHz BAND ANTENNA B

8.38.1. 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 Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	75.1200	0.5

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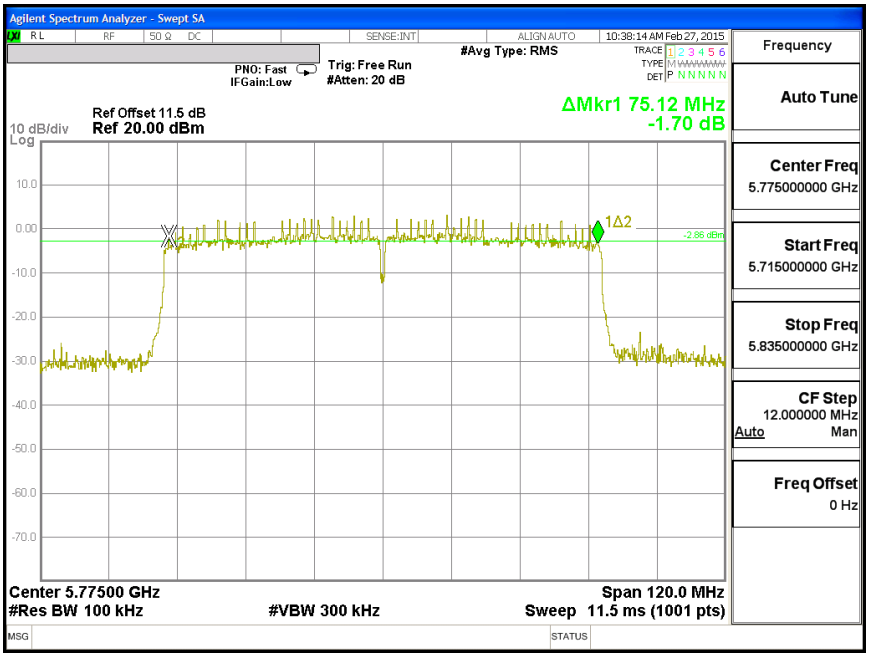
6 dB BANDWIDTH

6 dB BANDWIDTH MID CH



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8.38.2. 26 dB BANDWIDTH

LIMITS

None, for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Mid	5775	81.96

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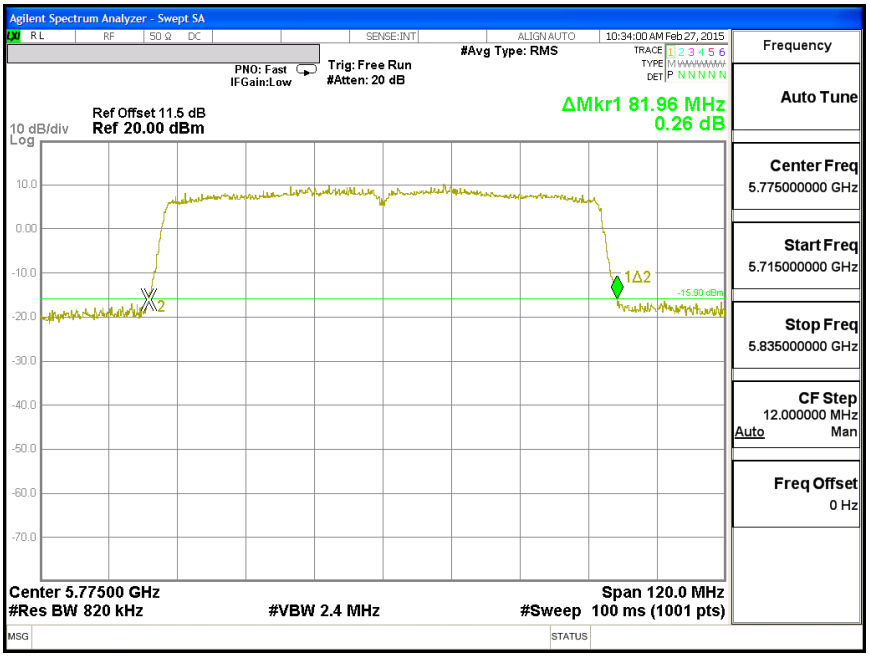
26 dB BANDWIDTH

26 dB BANDWIDTH MID CH



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8.38.3. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Mid	5775	75.6480

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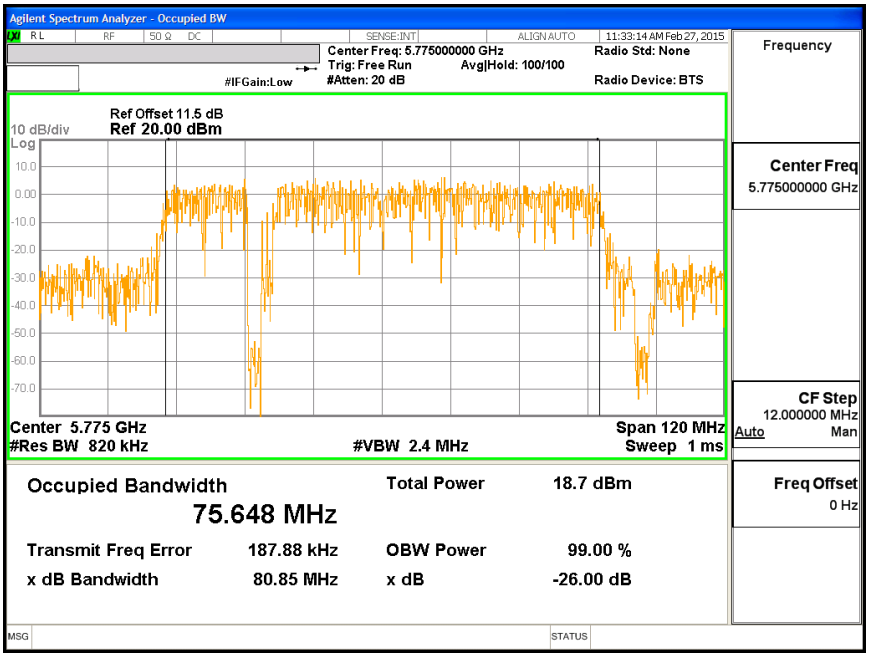
99% BANDWIDTH

BANDWIDTH MID CH



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8.38.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	Power (dBm)
Mid	5775	13.43

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8.38.5. 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.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

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RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Mid	5775	4.90	30.00

Duty Cycle CF (dB)	0.16	**Included in Calculations of Corr'd Power**

Output Power Results

Channel	Frequency (MHz)	Antenna B Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	13.43	13.59	30.00	-16.41

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8.38.6. Maximum Power Spectral Density (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

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

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RESULTS

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	PSD Limit (dBm)
Mid	5755	4.90	30.00

Duty Cycle CF (dB)	0.16	**Included in Calculations of Corr'd PSD**

PSD Results

Channel	Frequency (MHz)	Antenna B Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Mid	5755	-6.08	-5.92	30.00	-35.92

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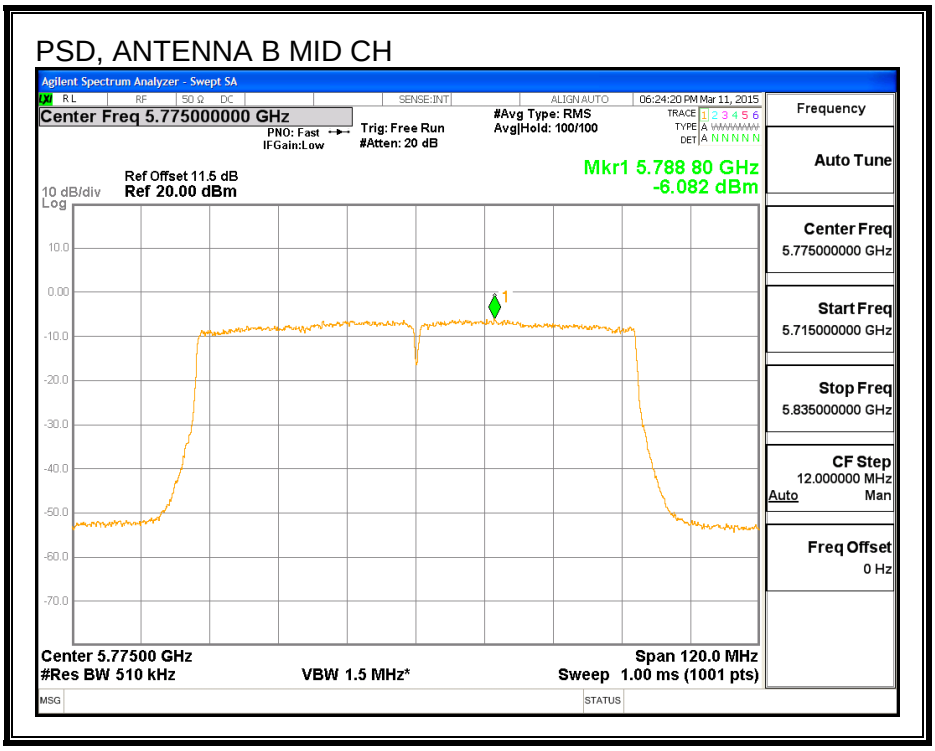
PSD, ANTENNA B



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8.39. 802.11ac VHT80 SISO MODE IN THE 5.8 GHz BAND ANTENNA A

8.39.1. 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 Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	75.4800	0.5

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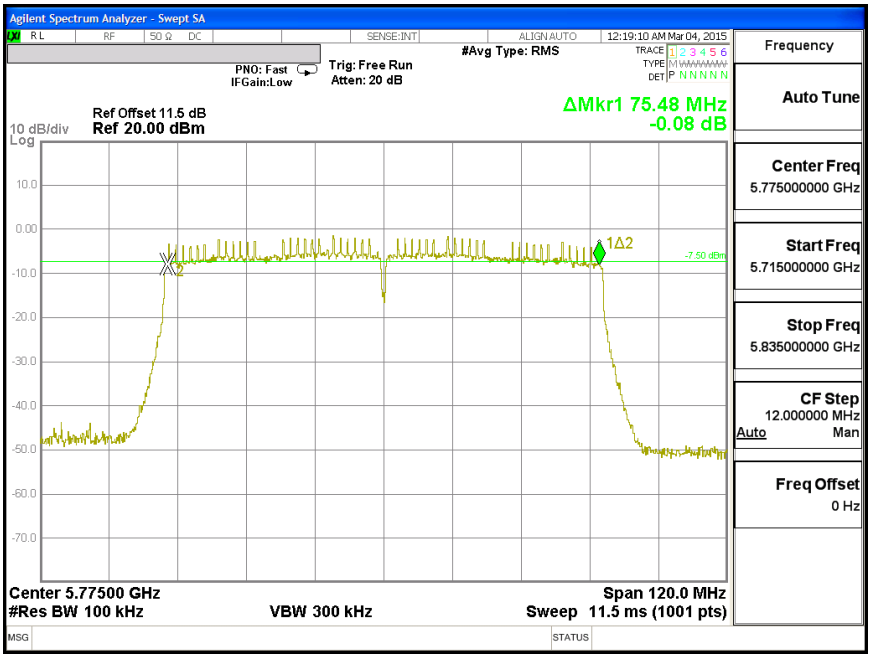
6 dB BANDWIDTH

6 dB BANDWIDTH MID CH



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8.39.2. 26 dB BANDWIDTH

LIMITS

None, for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Mid	5775	81.84

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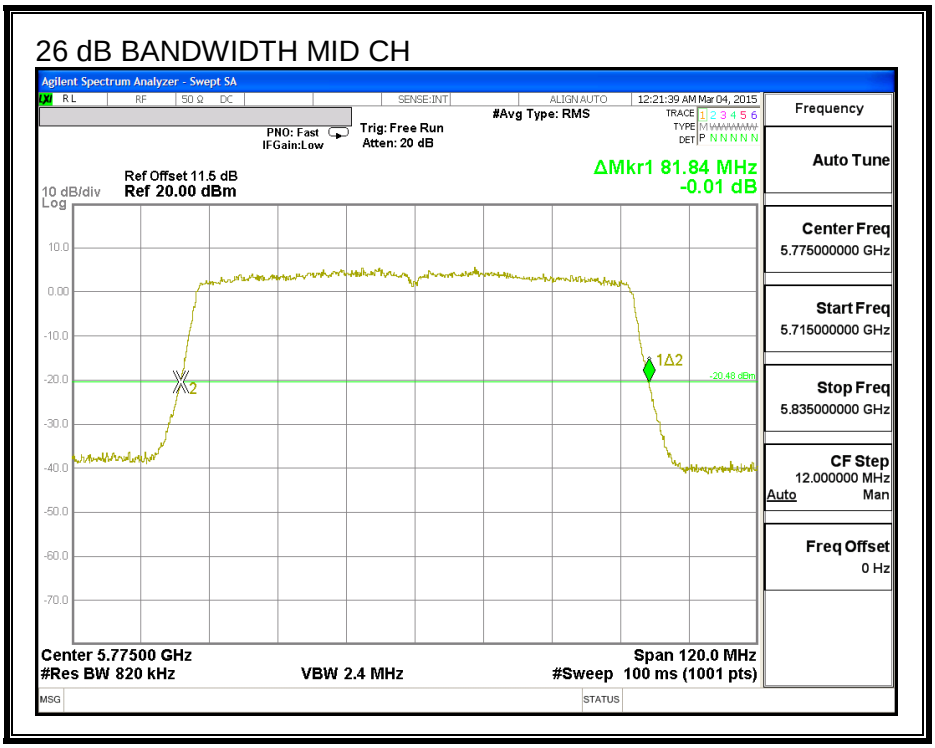
26 dB BANDWIDTH



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8.39.3. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Mid	5775	75.7500

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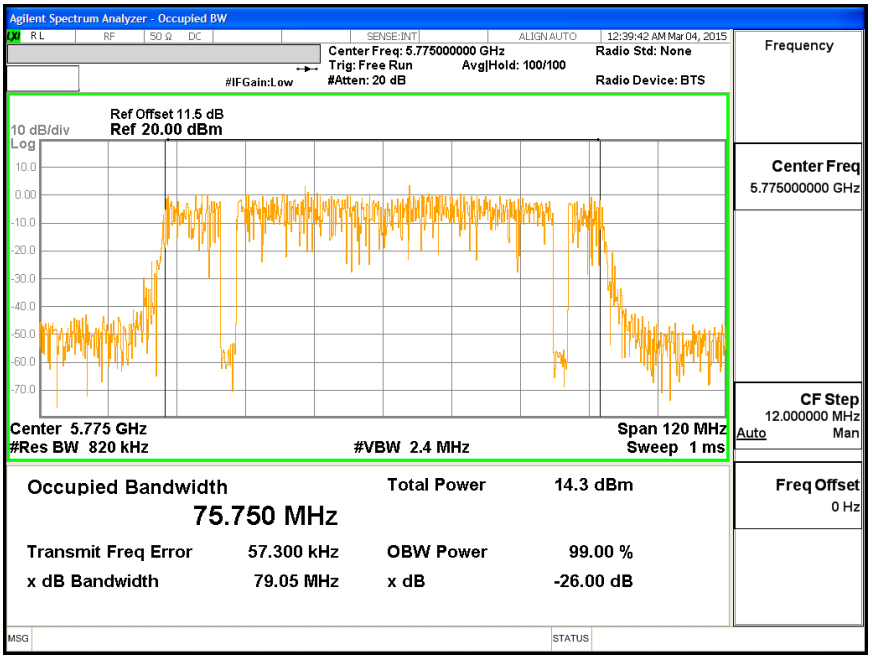
99% BANDWIDTH

BANDWIDTH MID CH



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8.39.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	Power (dBm)
Mid	5775	13.44

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8.39.5. 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.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

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RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Mid	5775	3.40	30.00

Duty Cycle CF (dB)	0.16	**Included in Calculations of Corr'd Power**

Output Power Results

Channel	Frequency (MHz)	Antenna A Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	13.44	13.60	30.00	-16.40

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8.39.6. Maximum Power Spectral Density (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

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

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RESULTS

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	PSD Limit (dBm)
Mid	5755	3.40	30.00

Duty Cycle CF (dB)	0.16	**Included in Calculations of Corr'd PSD**

PSD Results

Channel	Frequency (MHz)	Antenna A Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Mid	5755	-5.96	-5.80	30.00	-35.80

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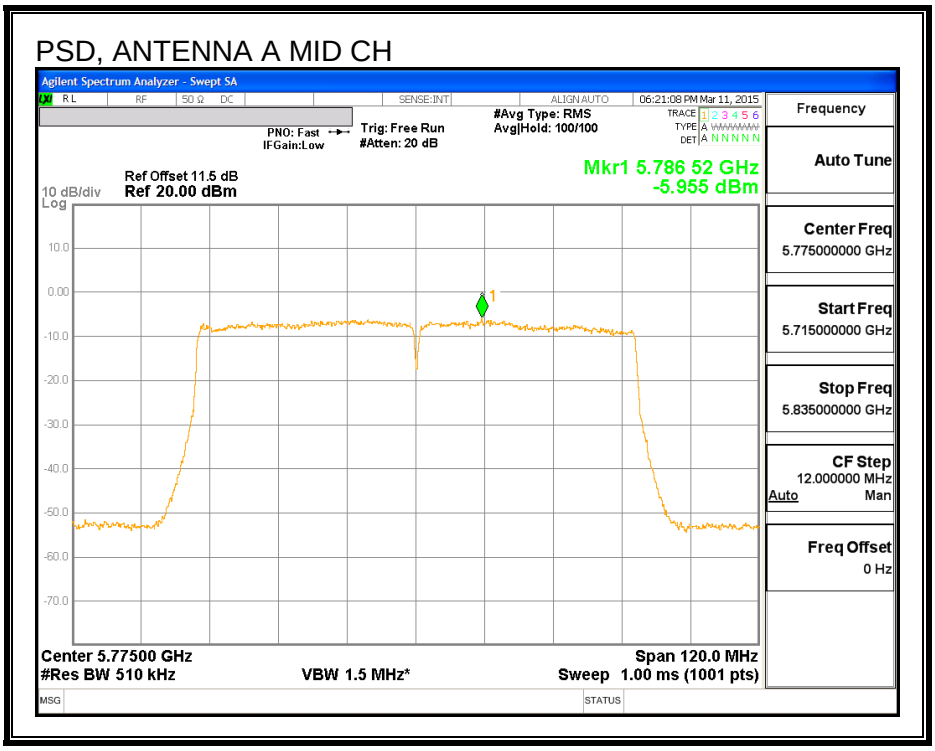
PSD, ANTENNA A



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8.40. 802.11ac VHT80 2Tx CDD MODE IN THE 5.8 GHz BAND

8.40.1. 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 Antenna B (MHz)	6 dB BW Antenna A (MHz)	Minimum Limit (MHz)
Mid	5775	75.3600	75.9600	0.5

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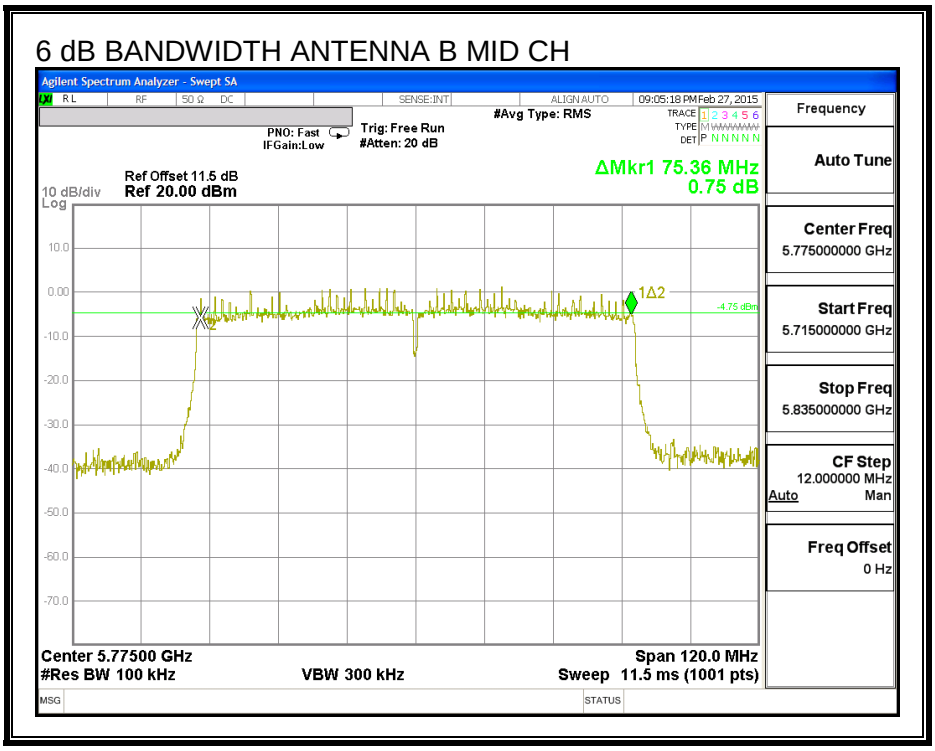
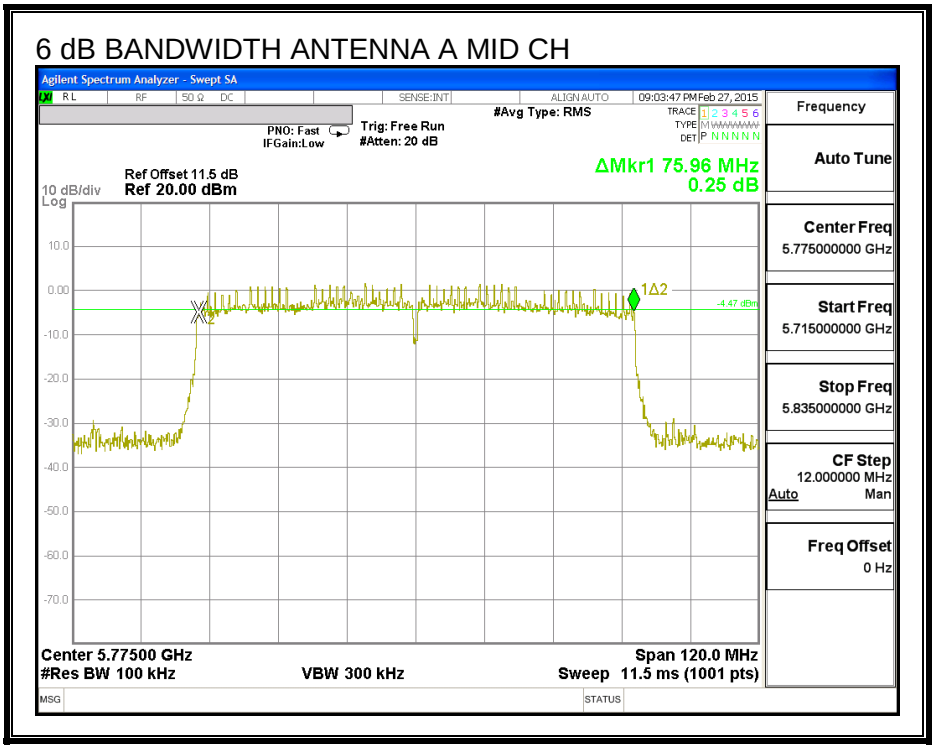
6 dB BANDWIDTH, ANTENNA B



6 dB BANDWIDTH, ANTENNA A



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8.40.2. 26 dB BANDWIDTH

LIMITS

None, for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	26 dB BW Antenna B (MHz)	26 dB BW Antenna A (MHz)
Mid	5775	81.60	81.00

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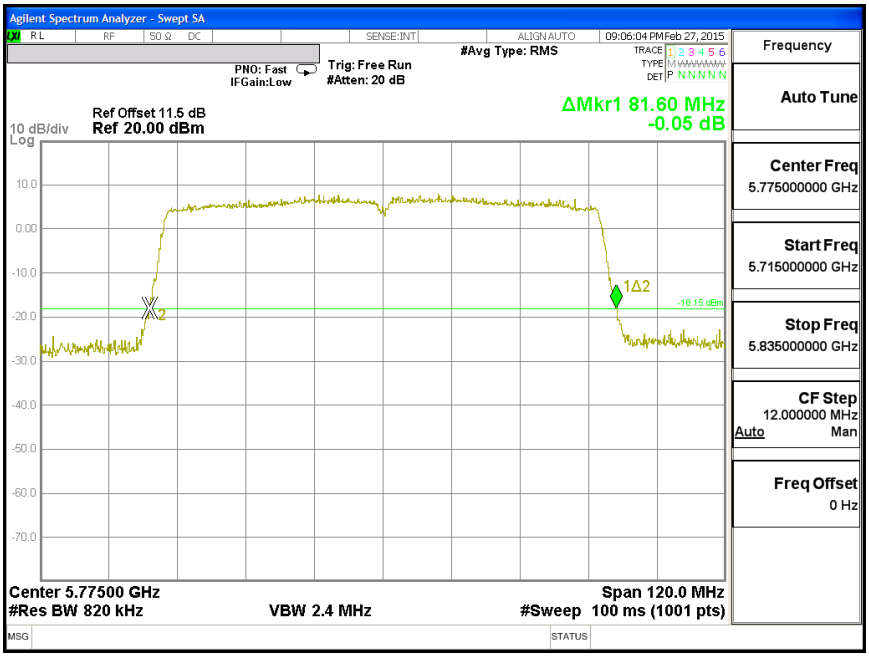
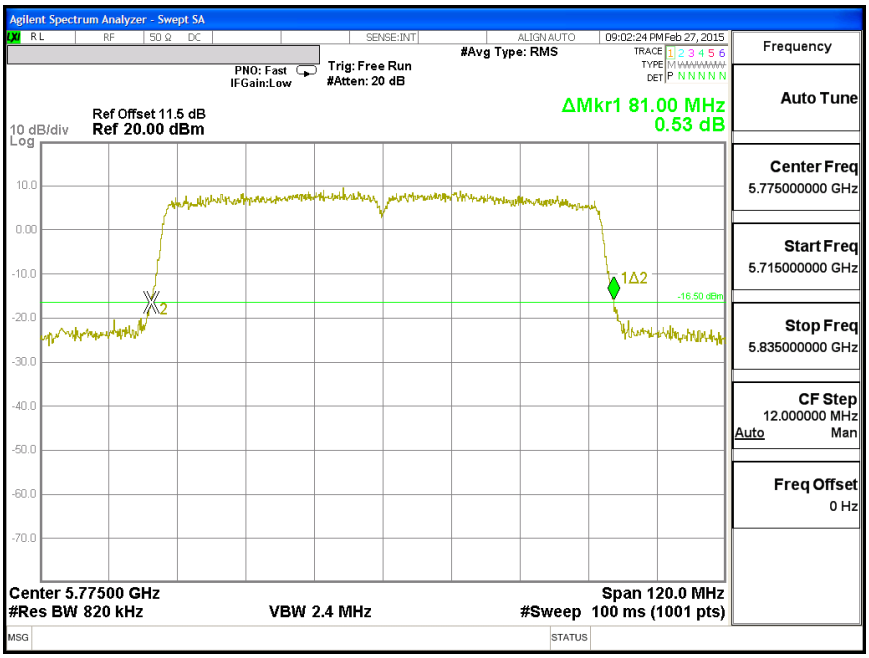
26 dB BANDWIDTH, ANTENNA B

26 dB BANDWIDTH ANTENNA B MID CH



26 dB BANDWIDTH, ANTENNA A

26 dB BANDWIDTH ANTENNA A MID CH



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8.40.3. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% BW Antenna B (MHz)	99% BW Antenna A (MHz)
Mid	5775	75.6990	75.5520

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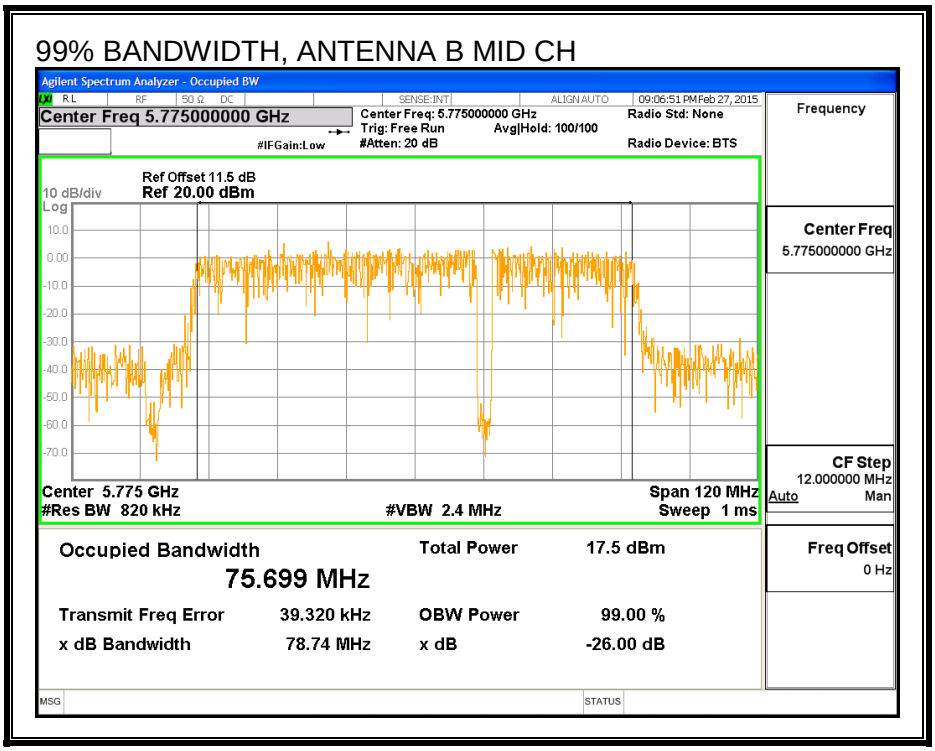
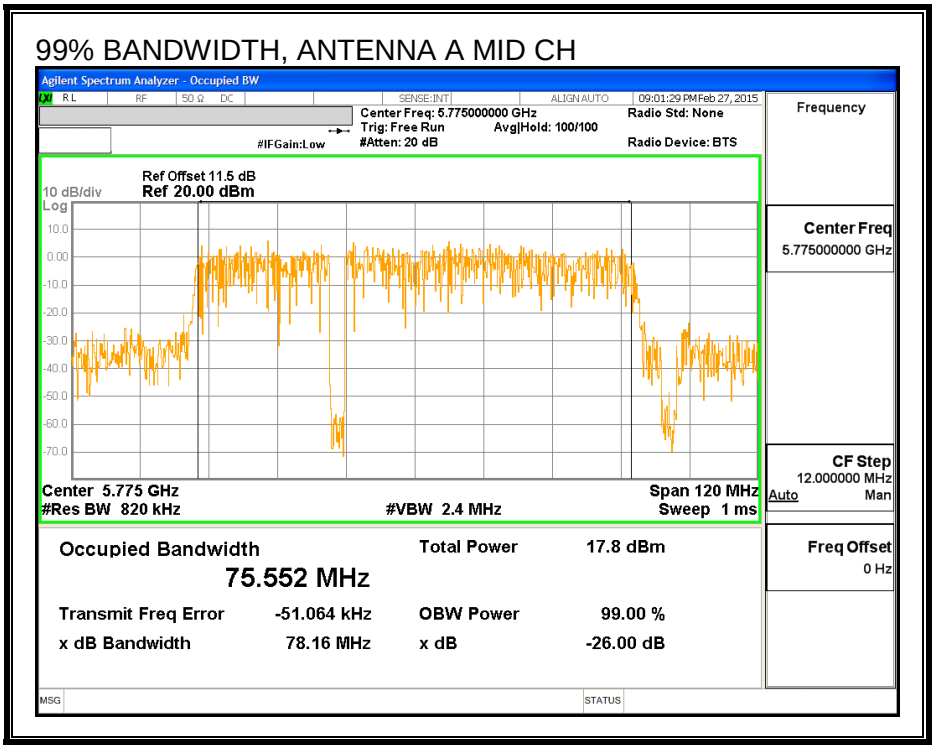
99% BANDWIDTH, ANTENNA B



99% BANDWIDTH, ANTENNA A



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8.40.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	Antenna B Power (dBm)	Antenna A Power (dBm)	Total Power (dBm)
Mid	5775	13.10	13.10	16.11

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8.40.5. 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.

DIRECTIONAL ANTENNA GAIN

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

Antenna B Antenna Gain (dBi)	Antenna A Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
4.90	3.40	4.21

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RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Mid	5775	4.21	30.00

Duty Cycle CF (dB)	0.21	**Included in Calculations of Corr'd Power**

Output Power Results

Channel	Frequency (MHz)	Antenna B Meas Power (dBm)	Antenna A Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	13.10	13.10	16.32	30.00	-13.68

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8.40.6. Maximum Power Spectral Density (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:

Antenna B Antenna Gain (dBi)	Antenna A Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
4.90	3.40	7.19

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RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	PSD Limit (dBm)
Mid	5755	7.19	28.81

Duty Cycle CF (dB)	0.21	**Included in Calculations of Corr'd PSD**

PSD Results

Channel	Frequency (MHz)	Antenna B Meas PSD (dBm)	Antenna A Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Mid	5755	-6.17	-5.12	-2.39	28.81	-31.20

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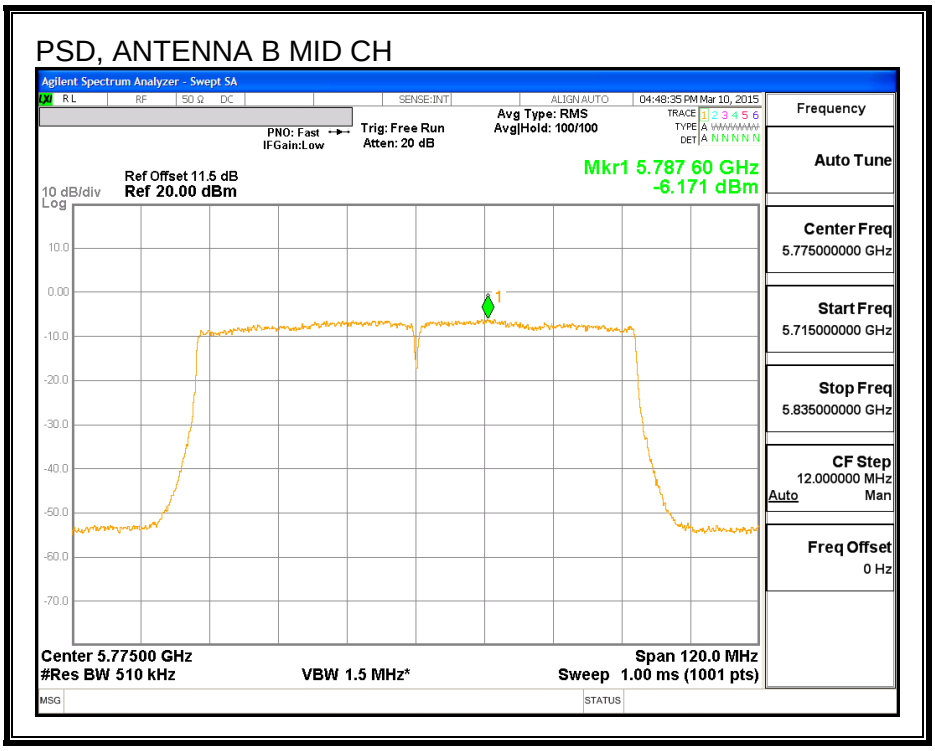
PSD, ANTENNA B



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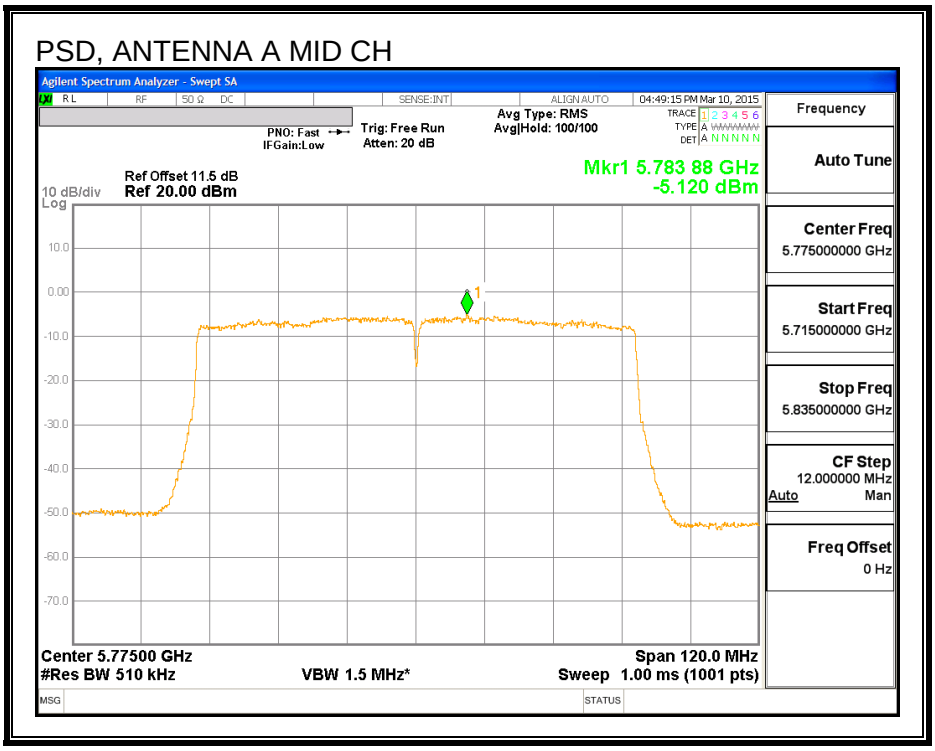
PSD, ANTENNA A



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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. The antenna to EUT distance is 3 meters.

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.

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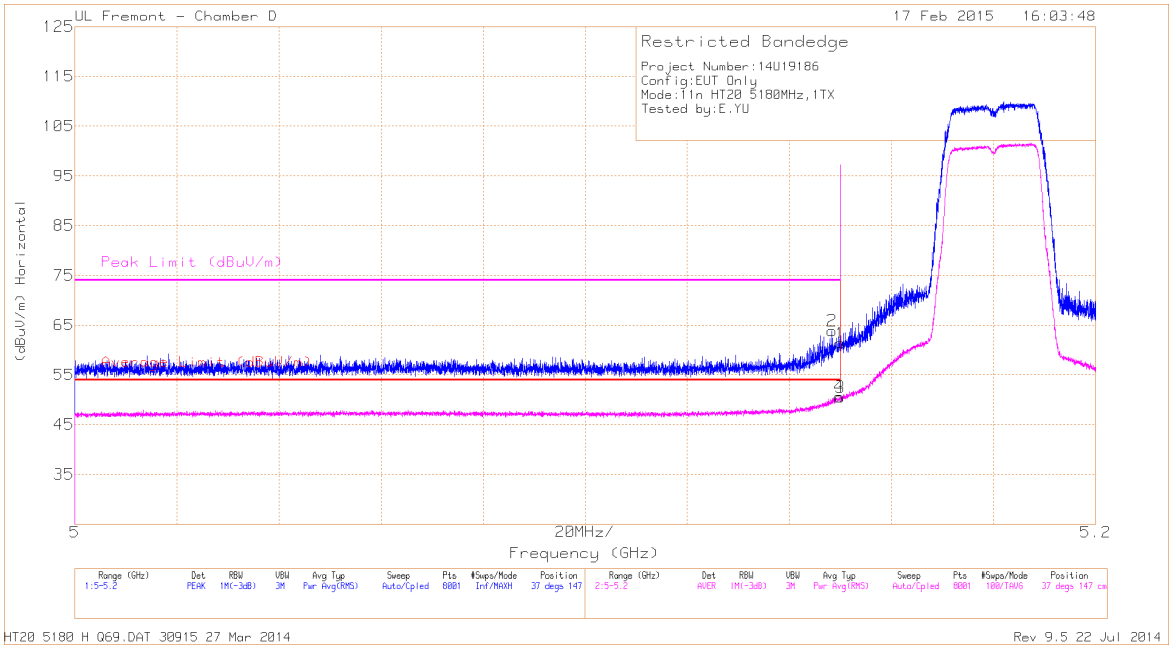
9.2. TX ABOVE 1 GHz 802.11n HT20 SISO MODE IN THE 5.2 GHz BAND

9.2.1. RESTRICTED BANDEDGE (LOW CHANNEL)

LOW CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fltr/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	* 5.148	48.18	PK	34.2	-18.5	63.88	-	-	74	-10.12	37	147	H
1	* 5.15	45.67	PK	34.2	-18.5	61.37	-	-	74	-12.63	37	147	H
3	* 5.15	34.83	RMS	34.2	-18.5	50.53	54	-3.47	-	-	37	147	H
4	* 5.15	34.88	RMS	34.2	-18.5	50.58	54	-3.42	-	-	37	147	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

RMS - RMS detection

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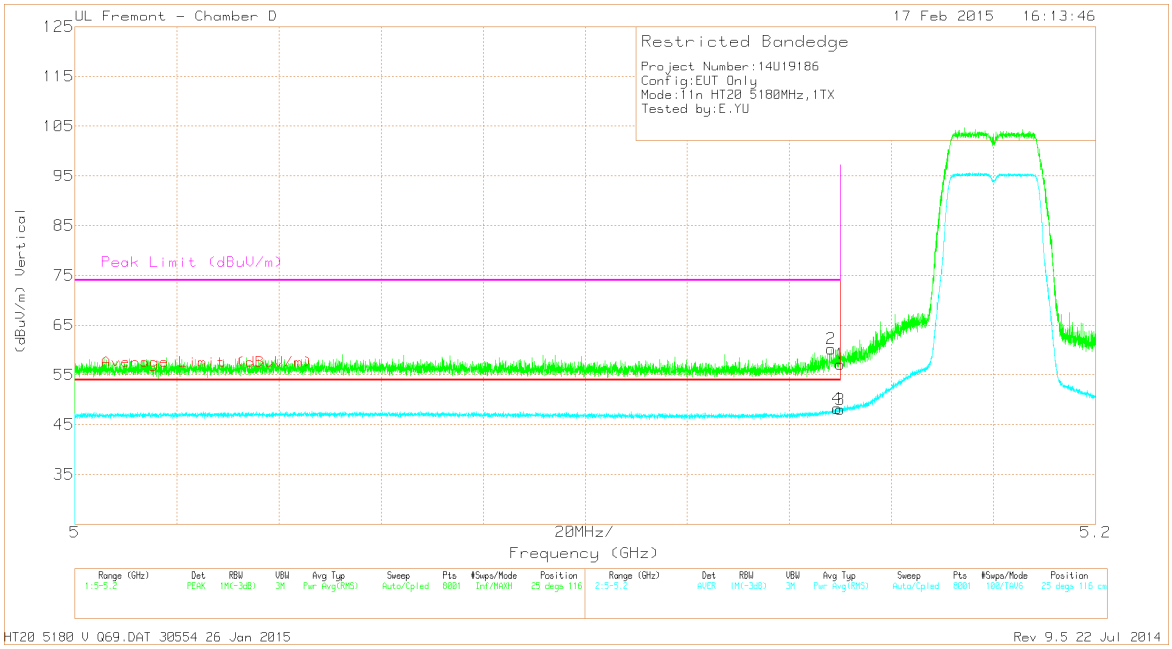
LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fltr/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	* 5.148	44.54	PK	34.2	-18.5	60.24	-	-	74	-13.76	25	116	V
4	* 5.149	32.57	RMS	34.2	-18.5	48.27	54	-5.73	-	-	25	116	V
1	* 5.15	41.47	PK	34.2	-18.5	57.17	-	-	74	-16.83	25	116	V
3	* 5.15	32.36	RMS	34.2	-18.5	48.06	54	-5.94	-	-	25	116	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

RMS - RMS detection

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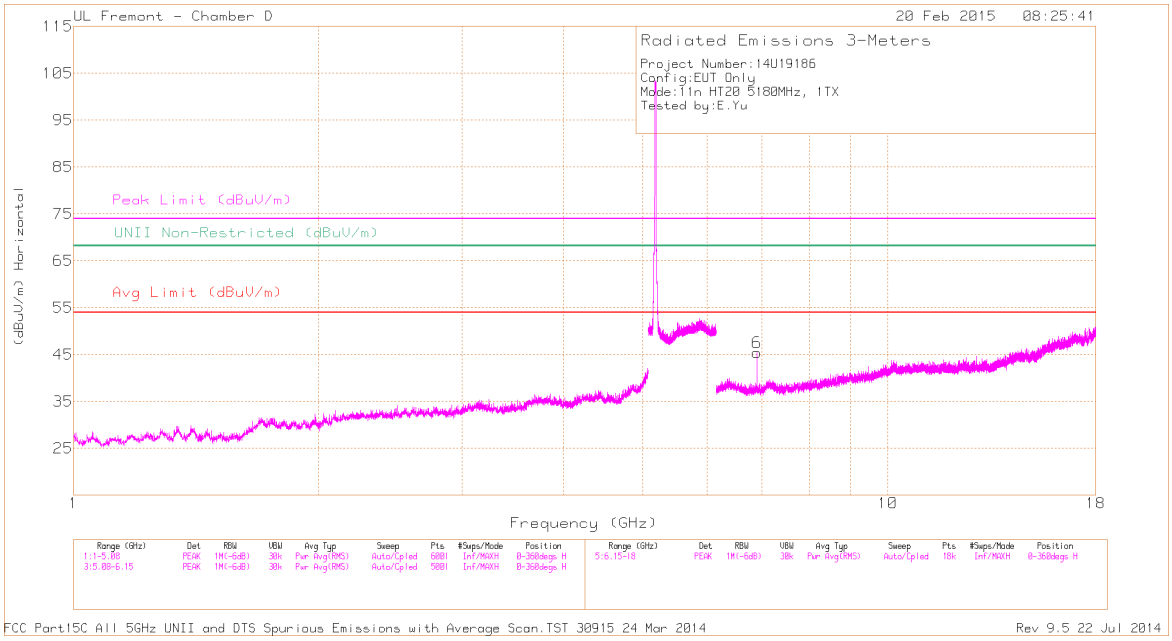
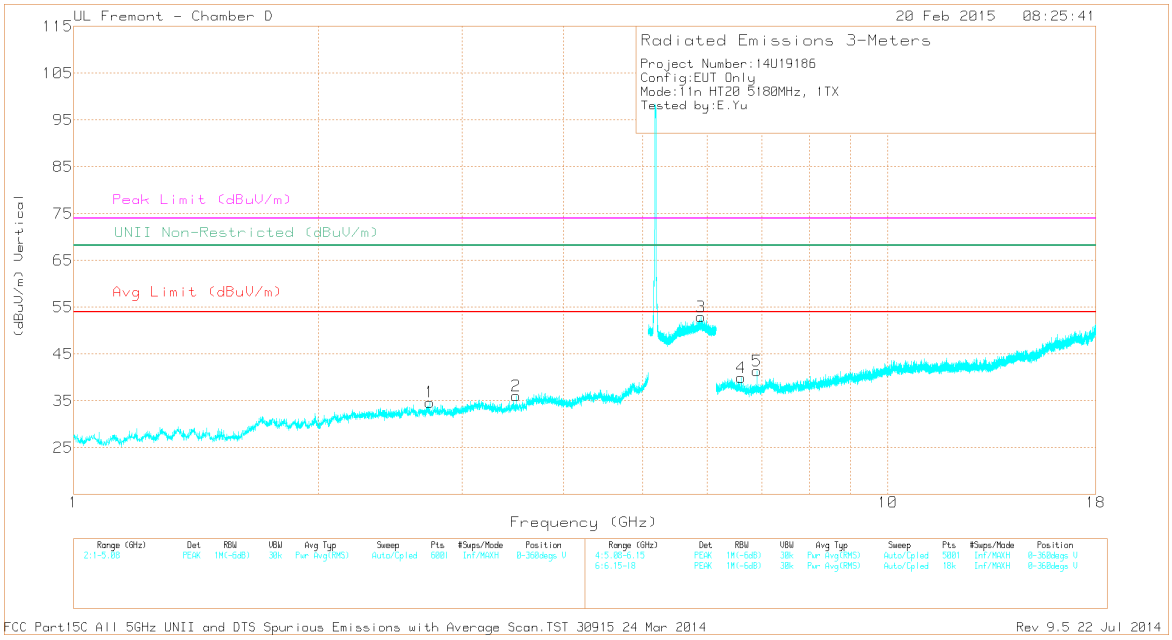
9.2.2. LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (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	* 2.736	38.92	PK1	32.4	-30.3	41.02	-	-	74	-32.98	-	-	62	191	V
	* 2.737	27.7	AD1	32.4	-30.3	29.8	54	-24.2	-	-	-	-	62	191	V
2	3.498	38.47	PK1	32.9	-28.7	42.67	-	-	-	-	68.2	-25.53	100	132	V
3	5.901	42.06	PK1	35.4	-17.4	60.06	-	-	-	-	68.2	-8.14	88	204	V
4	6.609	36.99	PK1	35.8	-26	46.79	-	-	-	-	68.2	-21.41	20	100	V
6	6.907	41.01	PK1	35.6	-25.8	50.81	-	-	-	-	68.2	-17.39	44	273	H
5	6.907	39.07	PK1	35.6	-25.8	48.87	-	-	-	-	68.2	-19.33	20	149	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

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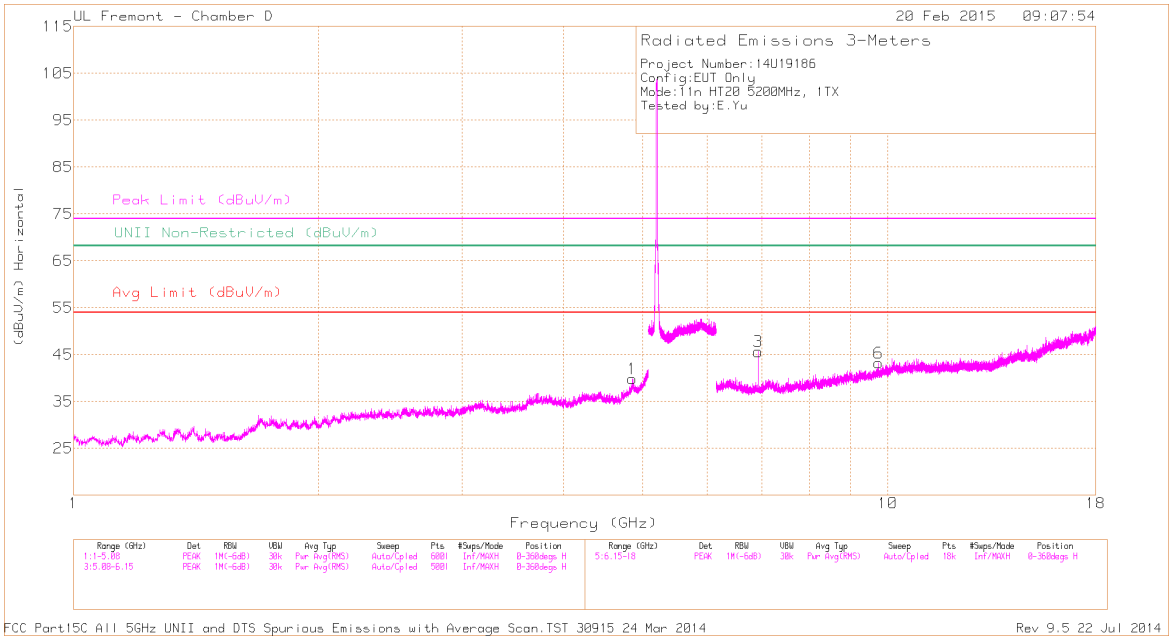
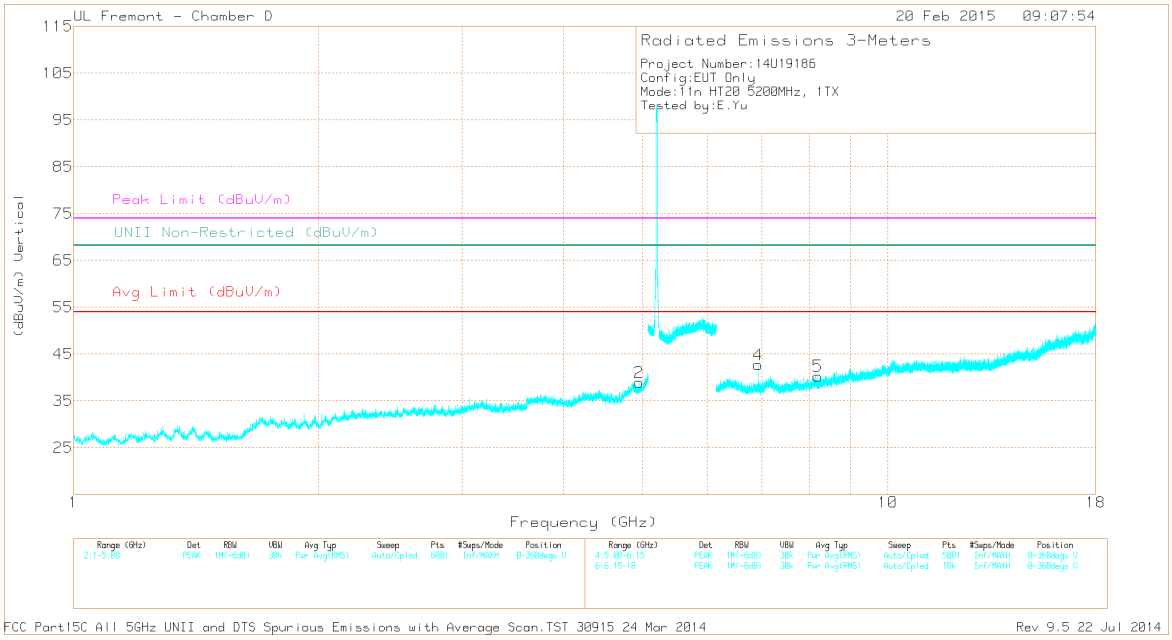
9.2.3. MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



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DATA

	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (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	* 4.853	39.27	PK1	33.9	-25.7	47.47	-	-	74	-26.53	-	-	10	280	H
	* 4.853	28.23	AD1	33.9	-25.7	36.43	54	-17.57	-	-	-	-	10	280	H
2	* 4.946	37.94	PK1	33.9	-26.9	44.94	-	-	74	-29.06	-	-	127	155	V
	* 4.947	27.03	AD1	33.9	-26.9	34.03	54	-19.97	-	-	-	-	127	155	V
5	* 8.208	35.36	PK1	36.1	-24.4	47.06	-	-	74	-26.94	-	-	246	152	V
	* 8.206	24	AD1	36.1	-24.4	35.7	54	-18.3	-	-	-	-	246	152	V
3	6.933	40.81	PK1	35.6	-25.6	50.81	-	-	-	-	68.2	-17.39	41	332	H
4	6.933	38.57	PK1	35.6	-25.6	48.57	-	-	-	-	68.2	-19.63	17	172	V
6	9.743	34.6	PK1	37.2	-22	49.8	-	-	-	-	68.2	-18.4	103	102	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

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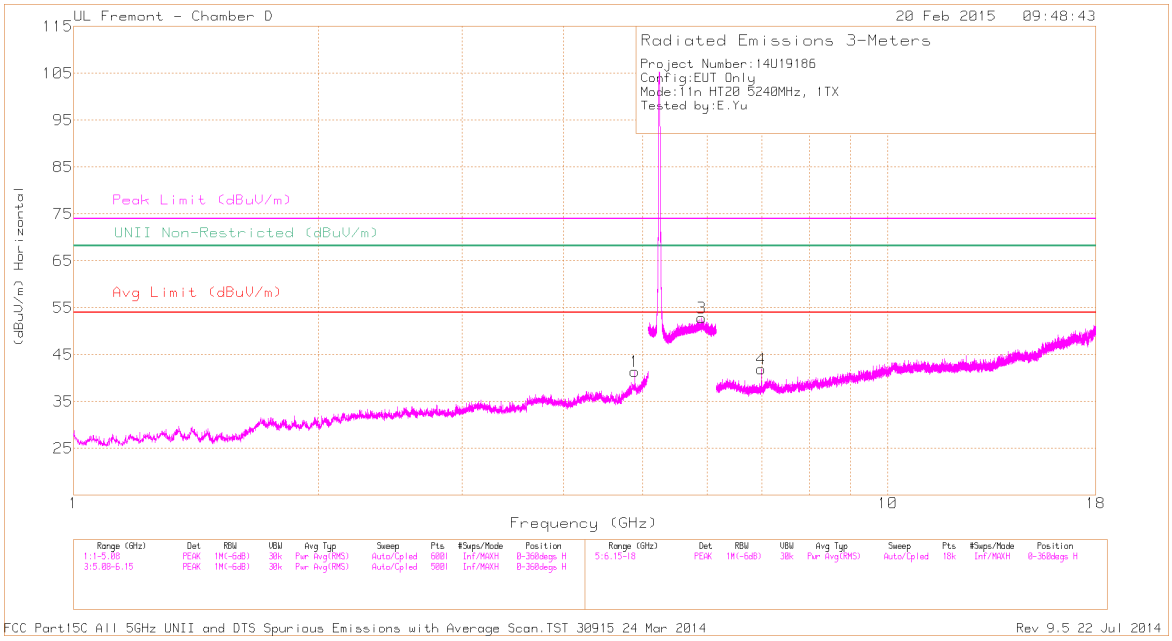
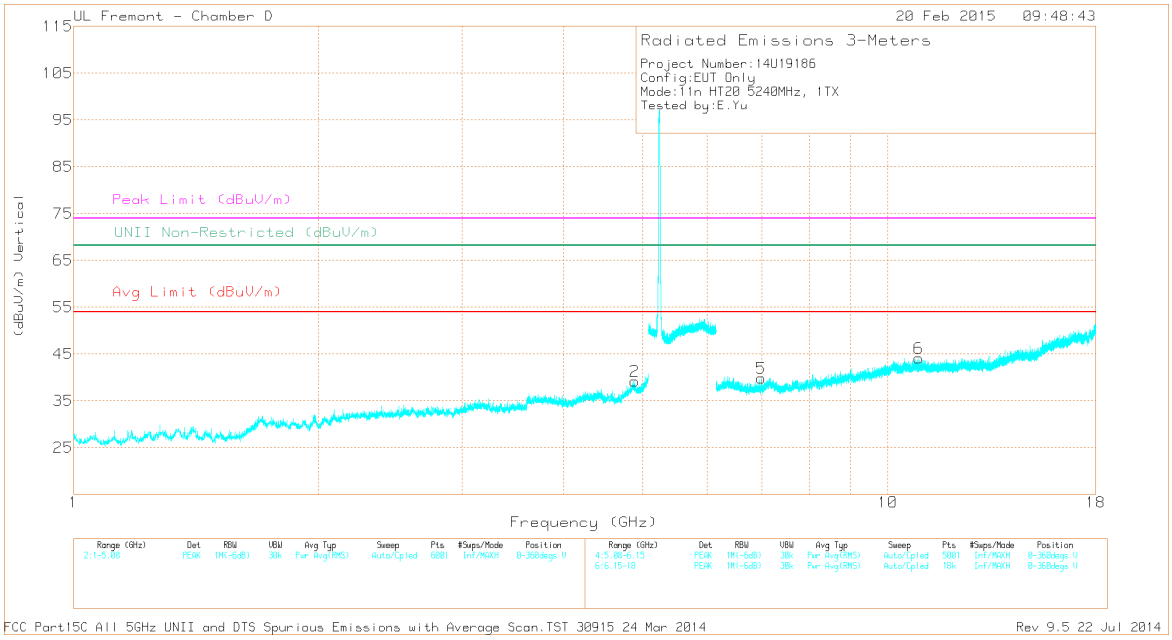
9.2.4. HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (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	* 4.891	39.04	PK1	33.9	-25.7	47.24	-	-	74	-26.76	-	-	232	116	H
	* 4.891	29.32	AD1	33.9	-25.7	37.52	54	-16.48	-	-	-	-	232	116	H
2	* 4.89	38.74	PK1	33.9	-25.7	46.94	-	-	74	-27.06	-	-	199	282	V
	* 4.891	27.61	AD1	33.9	-25.7	35.81	54	-18.19	-	-	-	-	199	282	V
6	* 10.907	34.02	PK1	38.2	-21.7	50.52	-	-	74	-23.48	-	-	190	205	V
	* 10.904	22.99	AD1	38.2	-21.7	39.49	54	-14.51	-	-	-	-	190	205	V
3	5.904	41.6	PK1	35.4	-17.5	59.5	-	-	-	-	68.2	-8.7	21	201	H
4	6.986	39.65	PK1	35.6	-26.1	49.15	-	-	-	-	68.2	-19.05	197	333	H
5	6.986	38.19	PK1	35.6	-26.1	47.69	-	-	-	-	68.2	-20.51	336	184	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

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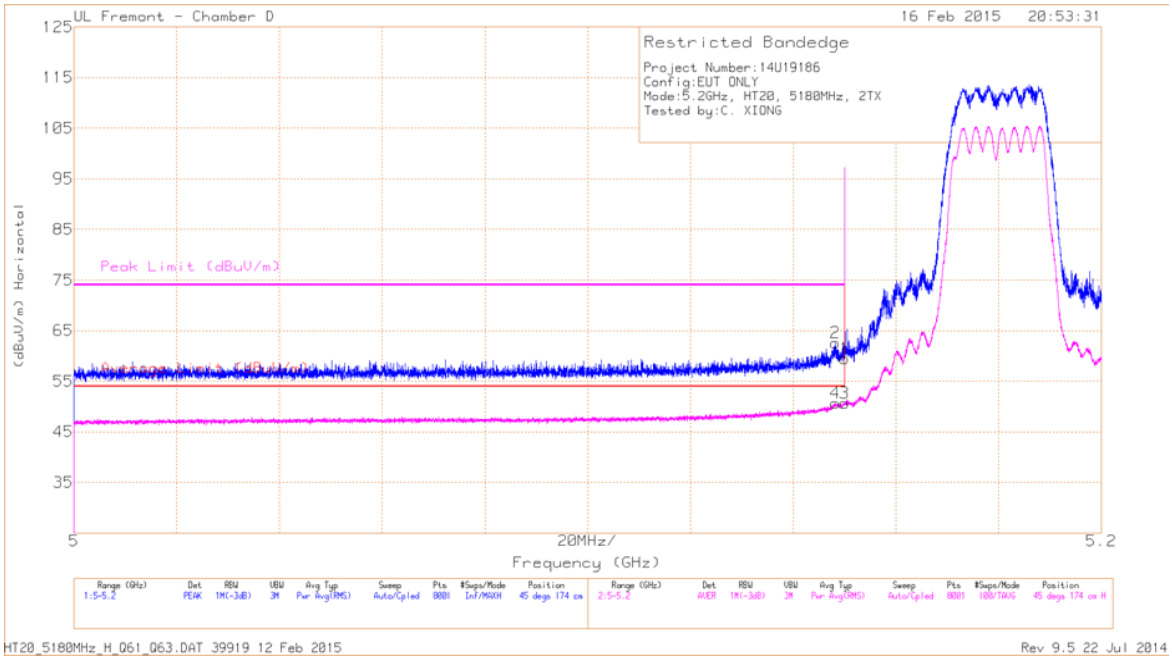
9.3. TX ABOVE 1 GHz 802.11n HT20 2Tx CDD MODE IN THE 5.2 GHz BAND

9.3.1. RESTRICTED BANDEDGE (LOW CHANNEL)

LOW CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fltr/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	* 5.15	43.8	PK	34.2	-18.5	59.5	-	-	74	-14.5	45	174	H
2	* 5.148	46.83	PK	34.2	-18.5	62.53	-	-	74	-11.47	45	174	H
3	* 5.15	35.01	RMS	34.2	-18.5	50.71	54	-3.29	-	-	45	174	H
4	* 5.148	34.96	RMS	34.2	-18.5	50.66	54	-3.34	-	-	45	174	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

RMS - RMS detection

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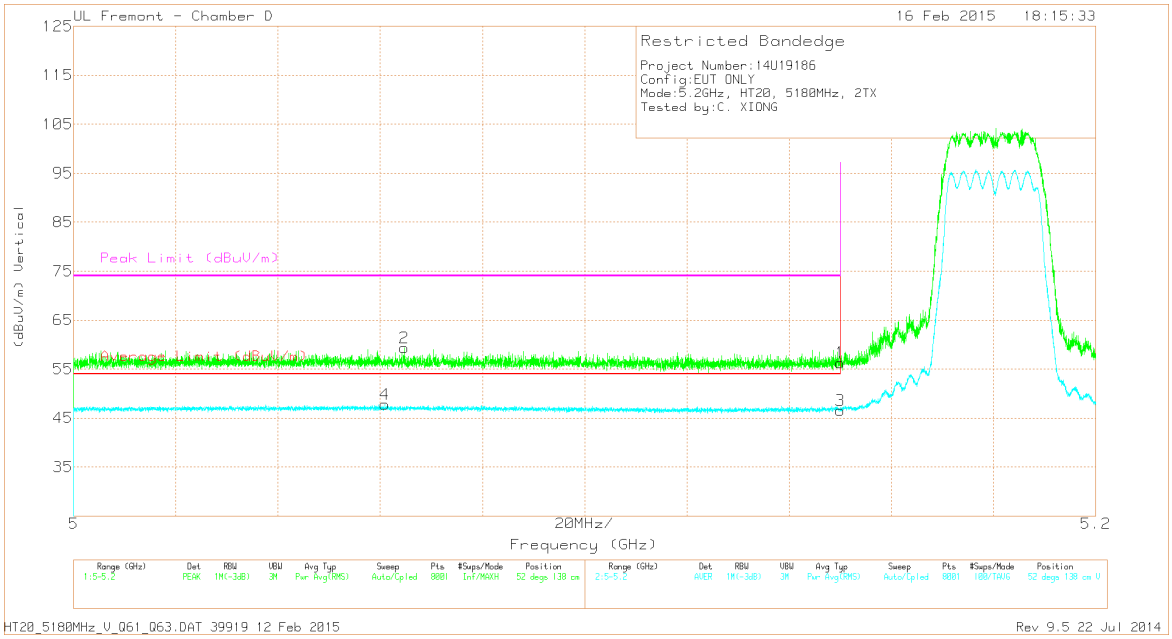
LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (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	* 5.061	32.01	RMS	34.1	-18.3	47.81	54	-6.19	-	-	52	138	V
2	* 5.065	43.58	PK	34.1	-18.3	59.38	-	-	74	-14.62	52	138	V
1	* 5.15	40.61	PK	34.2	-18.5	56.31	-	-	74	-17.69	52	138	V
3	* 5.15	30.87	RMS	34.2	-18.5	46.57	54	-7.43	-	-	52	138	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

RMS - RMS detection

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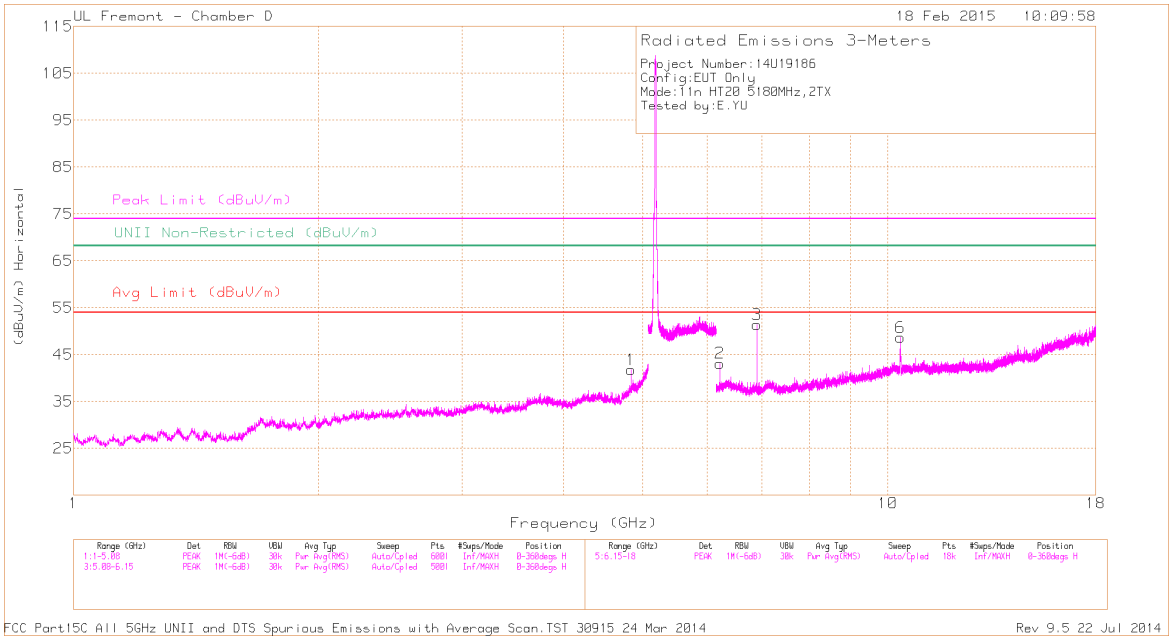
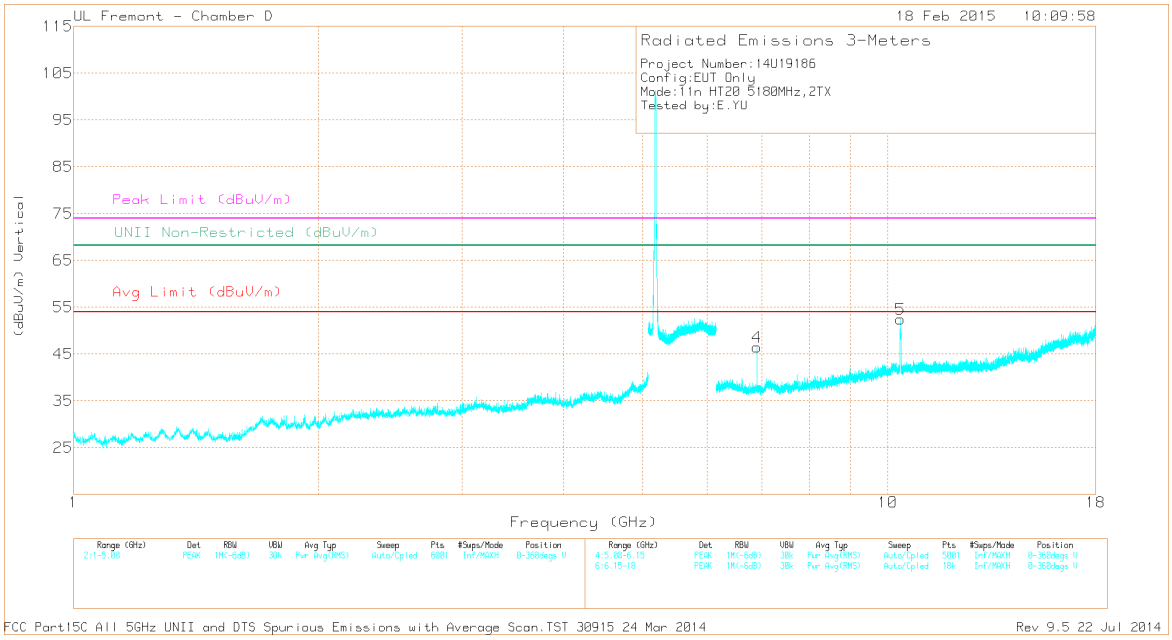
9.3.2. LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (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	* 4.835	40.13	PK1	33.9	-26.6	47.43	-	-	74	-26.57	-	-	31	112	H
	* 4.835	31.53	AD1	33.9	-26.6	38.83	54	-15.17	-	-	-	-	31	112	H
2	6.216	40.91	PK1	36	-26.7	50.21	-	-	-	-	68.2	-17.99	56	101	H
3	6.906	41.24	PK1	35.6	-25.8	51.04	-	-	-	-	68.2	-17.16	21	176	V
4	6.907	44.54	PK1	35.6	-25.8	54.34	-	-	-	-	68.2	-13.86	52	189	H
5	10.361	48.17	PK1	38	-21.7	64.47	-	-	-	-	68.2	-3.73	4	152	V
6	10.363	43.45	PK1	38	-21.8	59.65	-	-	-	-	68.2	-8.55	96	333	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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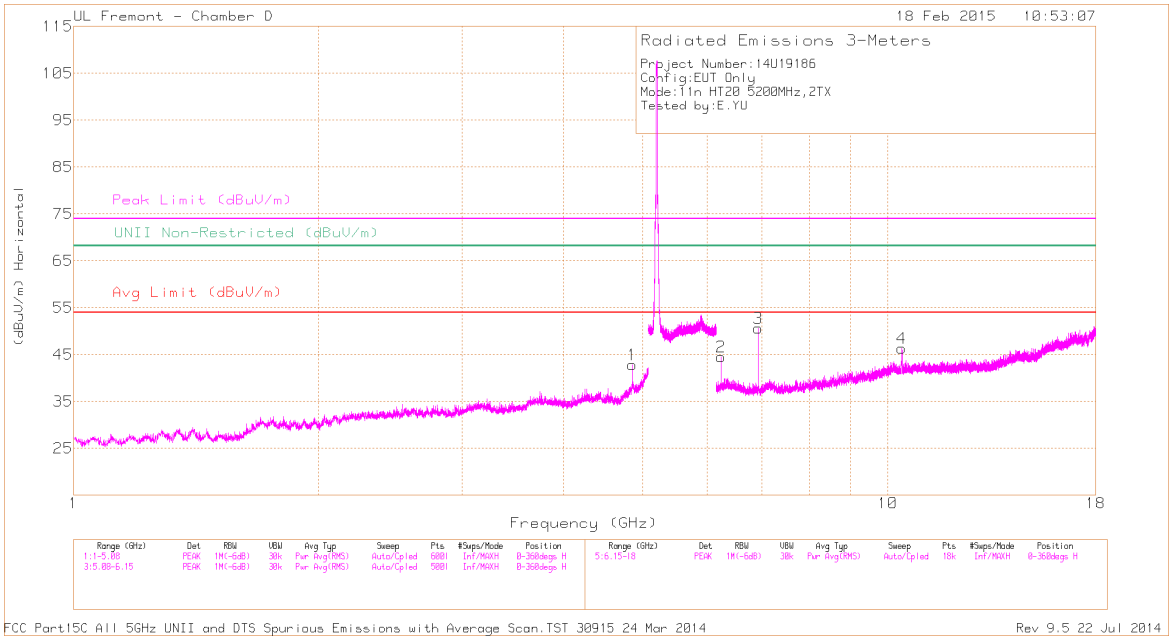
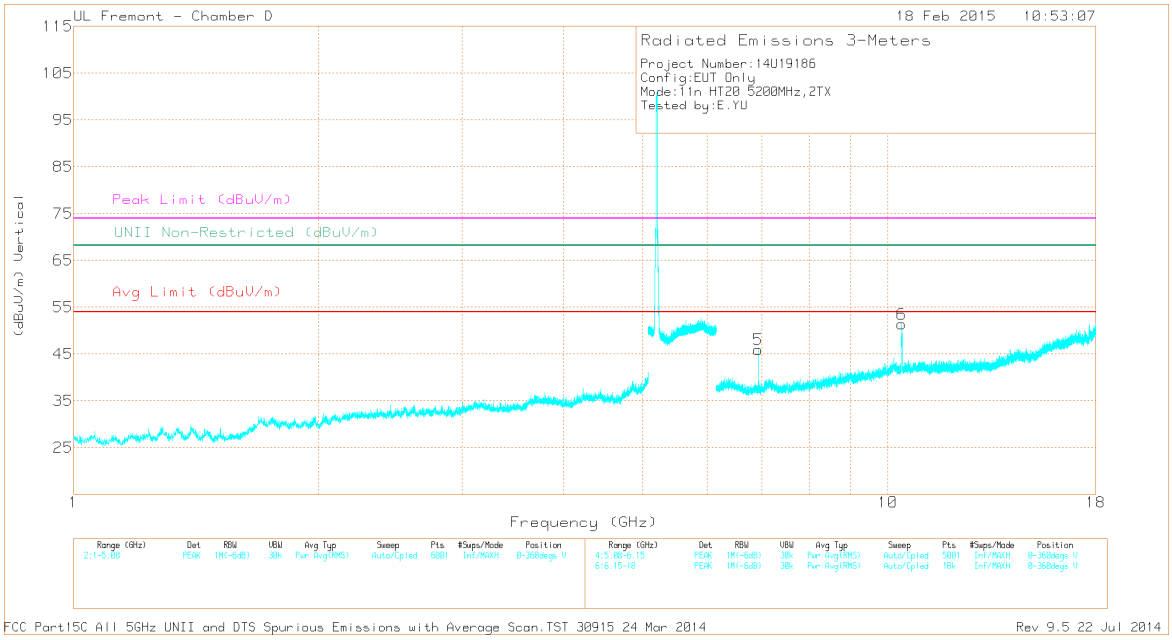
9.3.3. MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



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DATA

	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (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	* 4.853	39.52	PK1	33.9	-25.7	47.72	-	-	74	-26.28	-	-	36	131	H
	* 4.853	31.44	AD1	33.9	-25.7	39.64	54	-14.36	-	-	-	-	36	131	H
2	6.24	41.42	PK1	36	-26.7	50.72	-	-	-	-	68.2	-17.48	38	100	H
3	6.933	43.43	PK1	35.6	-25.6	53.43	-	-	-	-	68.2	-14.77	50	330	H
5	6.933	40.79	PK1	35.6	-25.6	50.79	-	-	-	-	68.2	-17.41	18	199	V
4	10.402	42.32	PK1	38	-21.9	58.42	-	-	-	-	68.2	-9.78	58	341	H
6	10.403	46.09	PK1	38	-21.9	62.19	-	-	-	-	68.2	-6.01	354	374	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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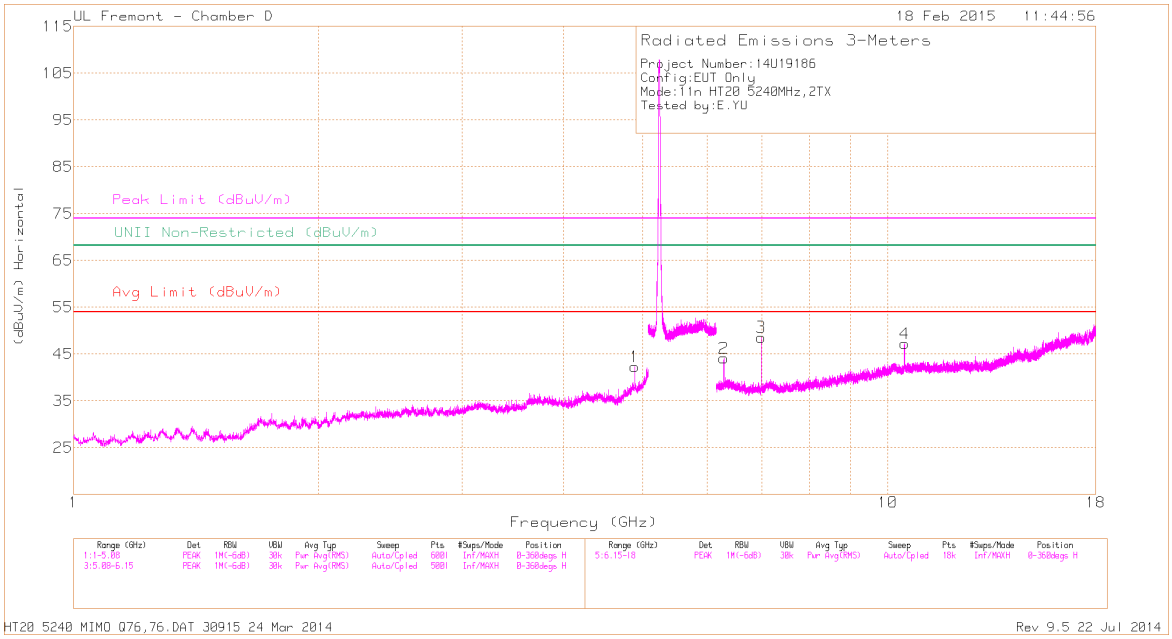
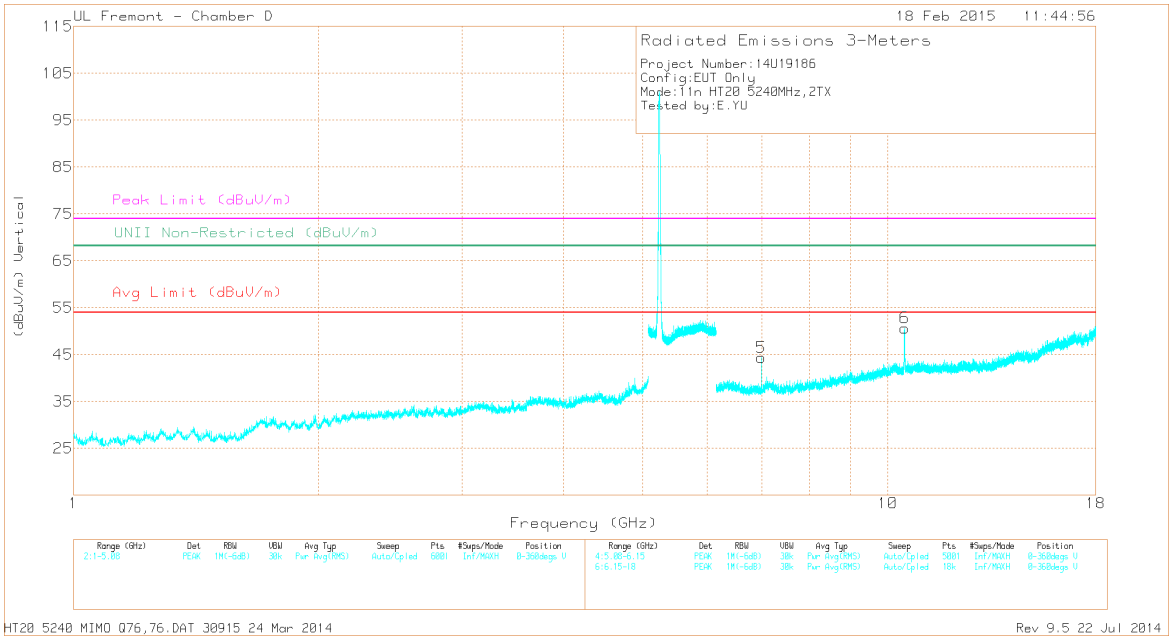
9.3.4. HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (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	* 4.89	39.05	PK1	33.9	-25.7	47.25	-	-	74	-26.75	-	-	59	148	H
	* 4.891	29.97	AD1	33.9	-25.7	38.17	54	-15.83	-	-	-	-	59	148	H
2	6.288	40.88	PK1	36	-26.3	50.58	-	-	-	-	68.2	-17.62	25	106	H
3	6.987	42.74	PK1	35.6	-26.1	52.24	-	-	-	-	68.2	-15.96	2	307	H
5	6.987	39.95	PK1	35.6	-26.1	49.45	-	-	-	-	68.2	-18.75	18	196	V
4	10.48	38.74	PK1	38.1	-21.6	55.24	-	-	-	-	68.2	-12.96	59	352	H
6	10.49	44.56	PK1	38.1	-21.7	60.96	-	-	-	-	68.2	-7.24	9	163	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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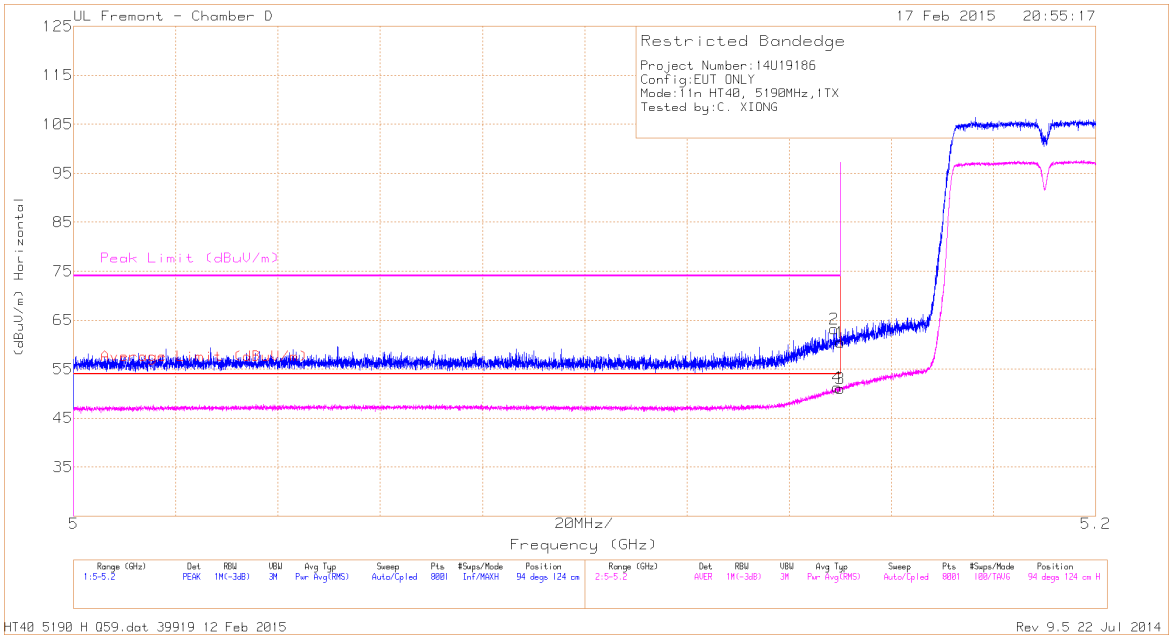
9.4. TX ABOVE 1 GHz 802.11n HT40 SISO MODE IN THE 5.2 GHz BAND

9.4.1. RESTRICTED BANDEDGE (LOW CHANNEL)

LOW CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fltr/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	* 5.149	47.46	PK	34.2	-18.5	63.16	-	-	74	-10.84	94	124	H
4	* 5.149	35.61	RMS	34.2	-18.5	51.31	54	-2.69	-	-	94	124	H
1	* 5.15	44.82	PK	34.2	-18.5	60.52	-	-	74	-13.48	94	124	H
3	* 5.15	35.37	RMS	34.2	-18.5	51.07	54	-2.93	-	-	94	124	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

RMS - RMS detection

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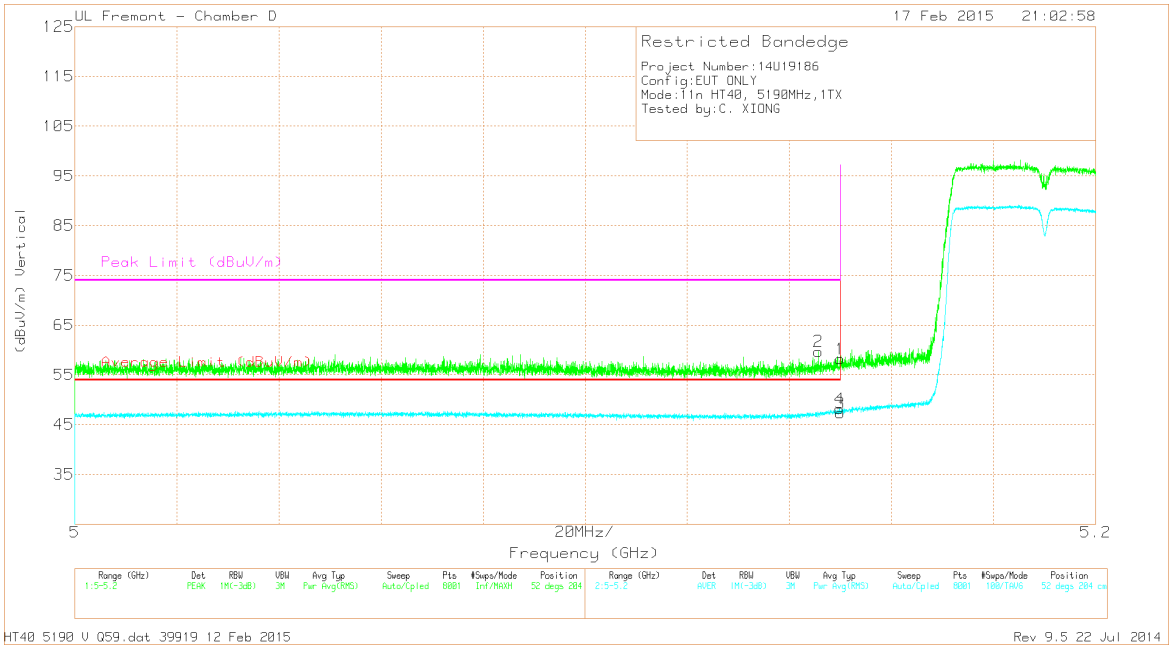
LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fltr/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	* 5.146	44.01	PK	34.2	-18.5	59.71	-	-	74	-14.29	52	204	V
1	* 5.15	42.5	PK	34.2	-18.5	58.2	-	-	74	-15.8	52	204	V
3	* 5.15	31.6	RMS	34.2	-18.5	47.3	54	-6.7	-	-	52	204	V
4	* 5.15	32.48	RMS	34.2	-18.5	48.18	54	-5.82	-	-	52	204	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

RMS - RMS detection

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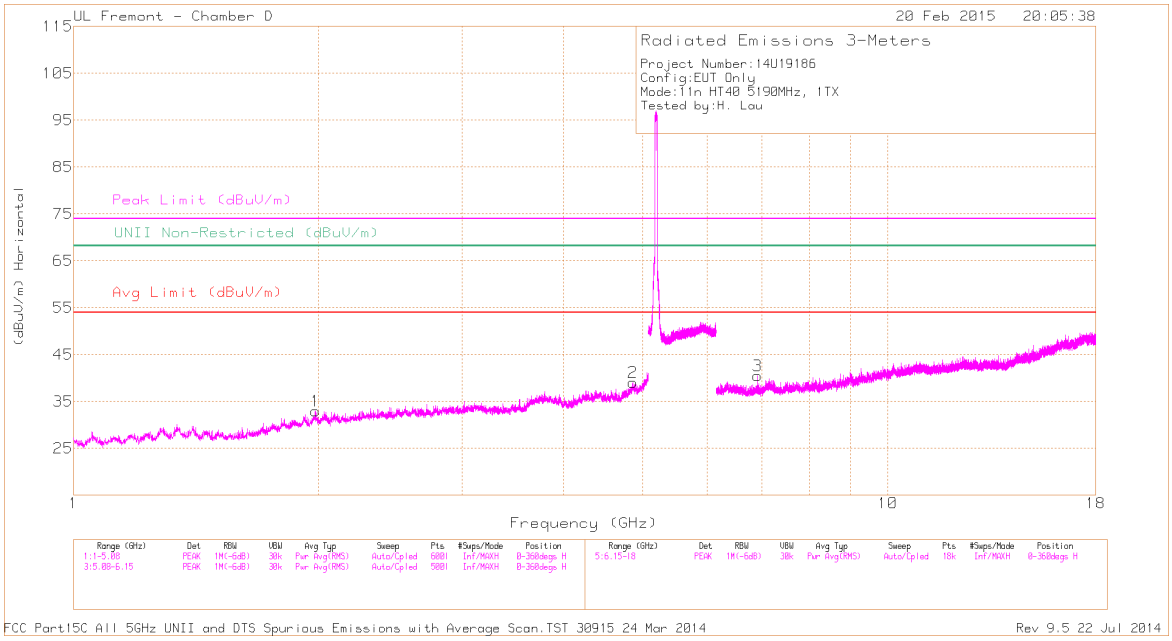
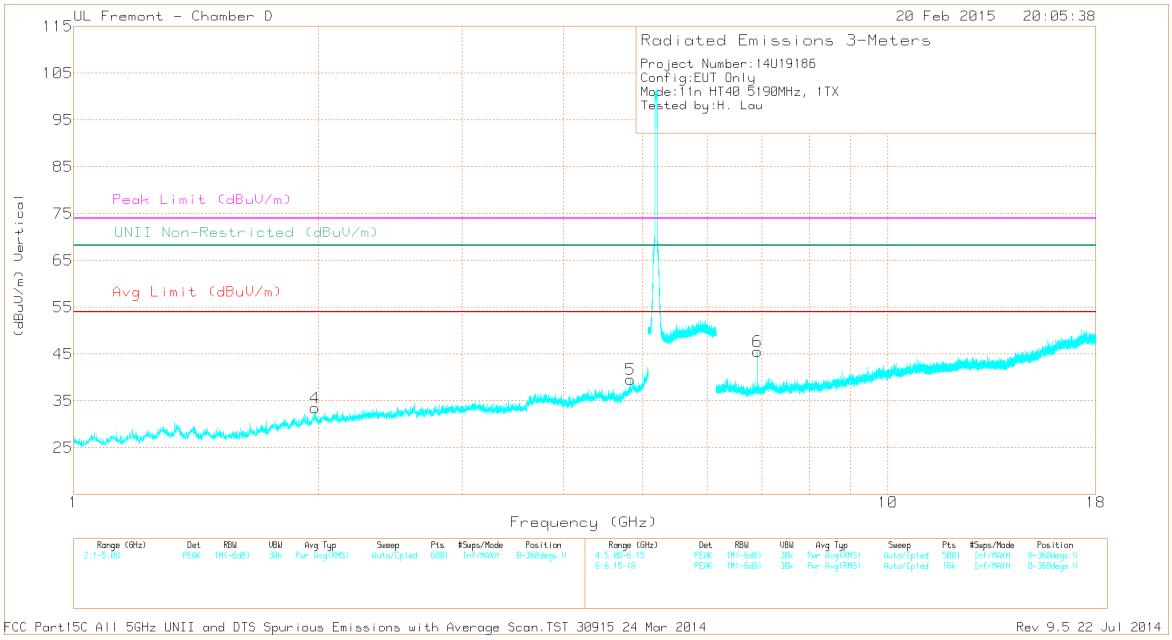
9.4.2. LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (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	* 4.861	37.41	PK1	34.1	-25.5	46.01	-	-	74	-27.99	-	-	54	223	H
	* 4.861	25.91	AD1	34.1	-25.4	34.61	54	-19.39	-	-	-	-	54	223	H
5	* 4.831	38.57	PK1	34.1	-26.8	45.87	-	-	74	-28.13	-	-	149	266	V
	* 4.83	26.75	AD1	34.1	-26.8	34.05	54	-19.95	-	-	-	-	149	266	V
1	1.98	41.37	PK1	31	-30.8	41.57	-	-	-	-	68.2	-26.63	139	290	H
4	1.98	43.05	PK1	31	-30.8	43.25	-	-	-	-	68.2	-24.95	264	367	V
3	6.92	37.93	PK1	35.5	-25.6	47.83	-	-	-	-	68.2	-20.37	4	102	H
6	6.92	40.85	PK1	35.5	-25.6	50.75	-	-	-	-	68.2	-17.45	3	111	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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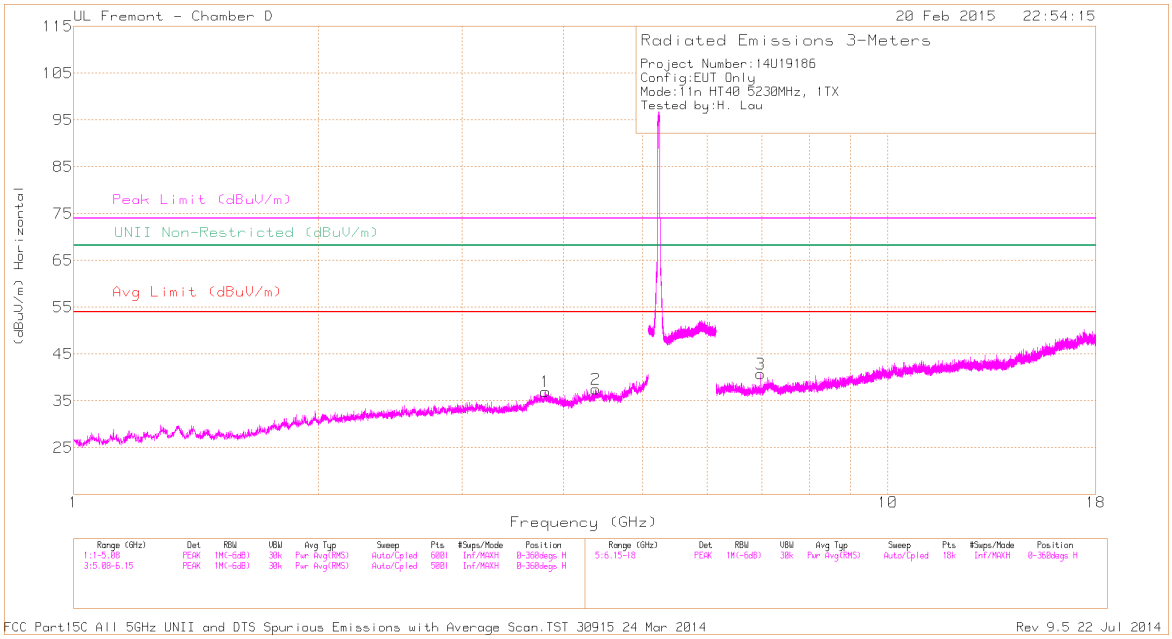
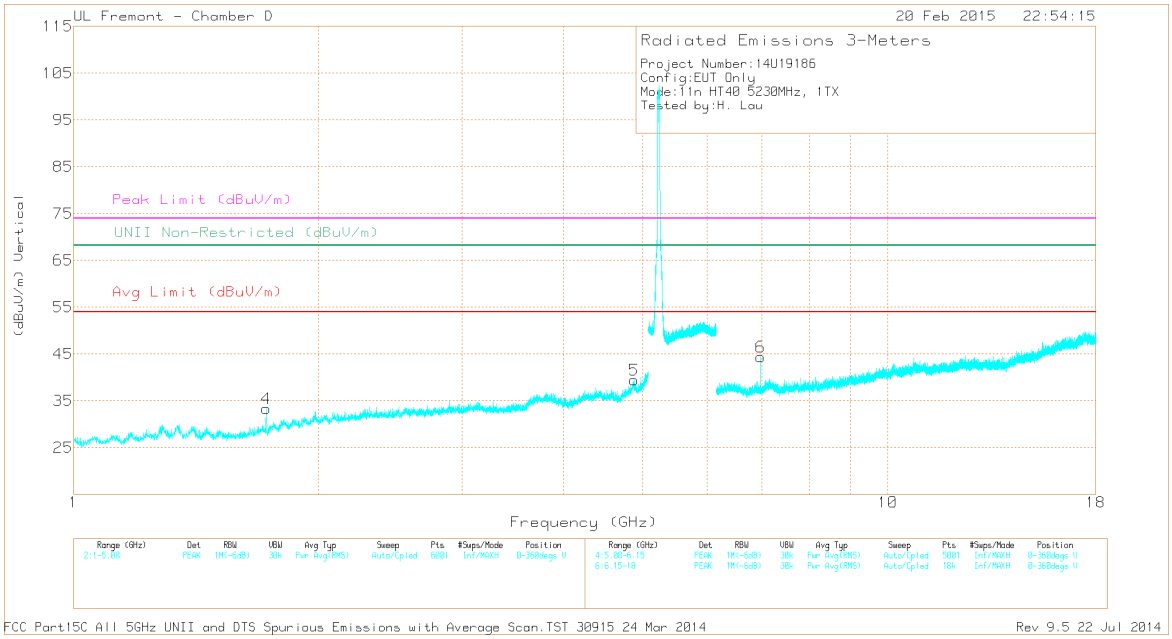
9.4.3. HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/Flt r/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	* 3.799	39.77	PK1	33.3	-28.7	44.37	-	-	74	-29.63	-	-	69	121	H
	* 3.801	27.42	AD1	33.3	-28.7	32.02	54	-21.98	-	-	-	-	69	121	H
2	* 4.379	37.95	PK1	33.8	-27.9	43.85	-	-	74	-30.15	-	-	159	154	H
	* 4.377	26.83	AD1	33.8	-27.9	32.73	54	-21.27	-	-	-	-	159	154	H
5	* 4.881	37.39	PK1	34.1	-25.3	46.19	-	-	74	-27.81	-	-	26	369	V
	* 4.881	27.53	AD1	34.1	-25.3	36.33	54	-17.67	-	-	-	-	26	369	V
4	1.723	39.95	PK1	29.1	-31.2	37.85	-	-	-	-	68.2	-30.35	178	162	V
6	6.973	40.24	PK1	35.5	-26.1	49.64	-	-	-	-	68.2	-18.56	359	167	V
3	6.974	38.2	PK1	35.5	-26.1	47.6	-	-	-	-	68.2	-20.6	7	111	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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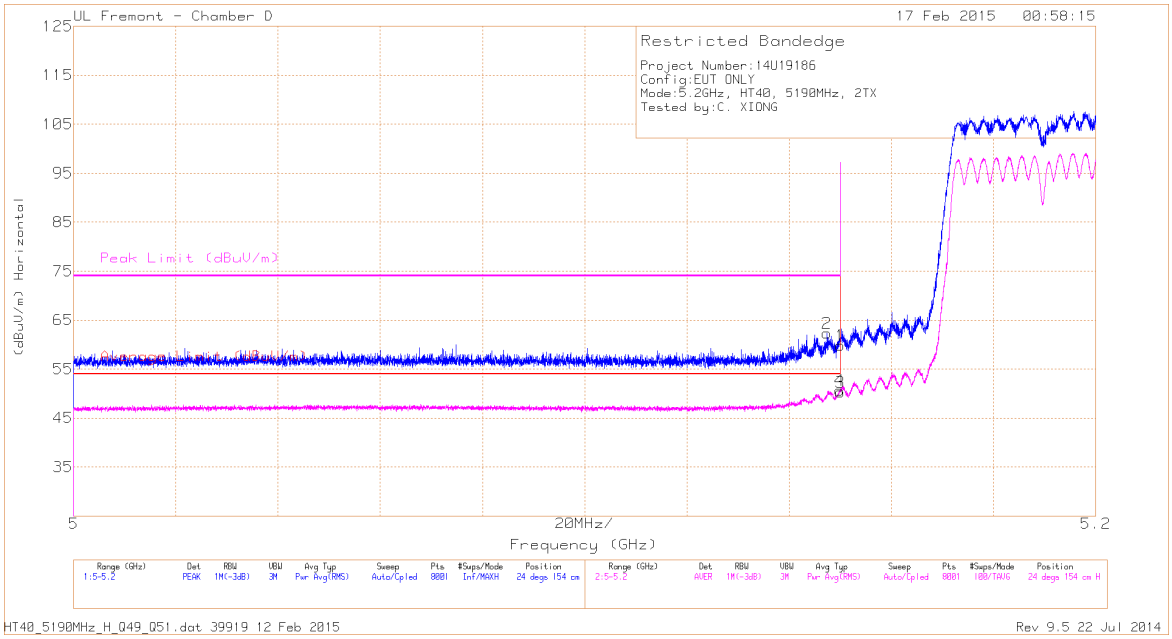
9.5. TX ABOVE 1 GHz 802.11n HT40 2Tx CDD MODE IN THE 5.2 GHz BAND

9.5.1. RESTRICTED BANDEDGE (LOW CHANNEL)

LOW CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fltr/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	* 5.147	46.69	PK	34.2	-18.5	62.39	-	-	74	-11.61	24	154	H
1	* 5.15	44.19	PK	34.2	-18.5	59.89	-	-	74	-14.11	24	154	H
3	* 5.15	34.64	RMS	34.2	-18.5	50.34	54	-3.66	-	-	24	154	H
4	* 5.15	34.99	RMS	34.2	-18.5	50.69	54	-3.31	-	-	24	154	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

RMS - RMS detection

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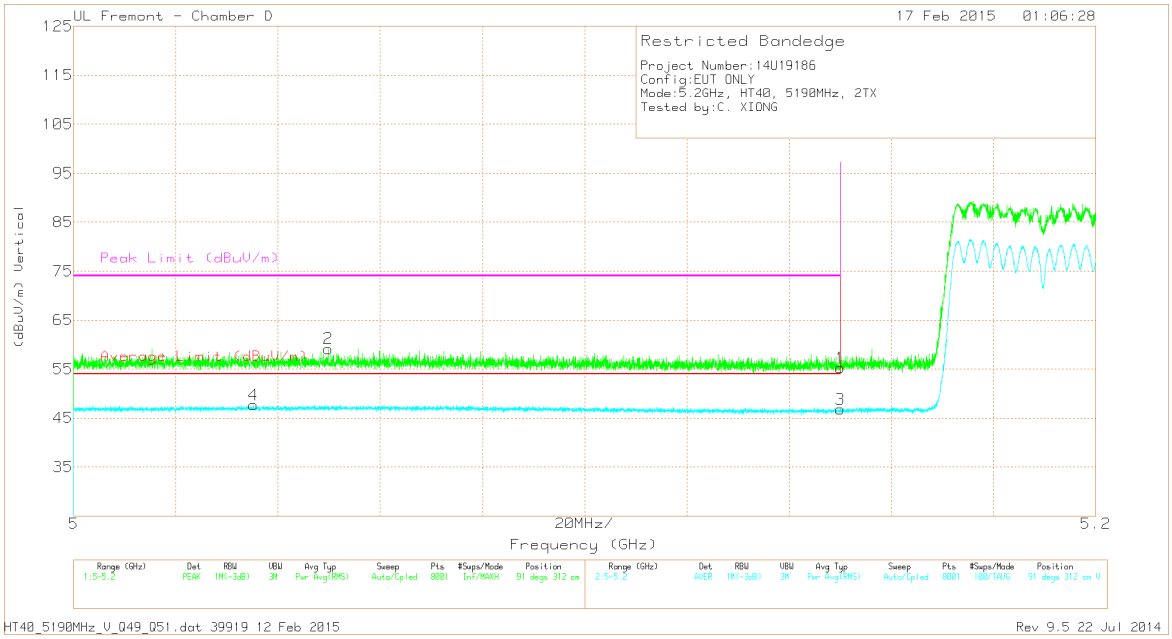
LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/F ltr/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	* 5.035	31.86	RMS	34	-18.2	47.66	54	-6.34	-	-	91	312	V
2	* 5.05	43.37	PK	34	-18.2	59.17	-	-	74	-14.83	91	312	V
1	* 5.15	39.6	PK	34.2	-18.5	55.3	-	-	74	-18.7	91	312	V
3	* 5.15	31.08	RMS	34.2	-18.5	46.78	54	-7.22	-	-	91	312	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

RMS - RMS detection

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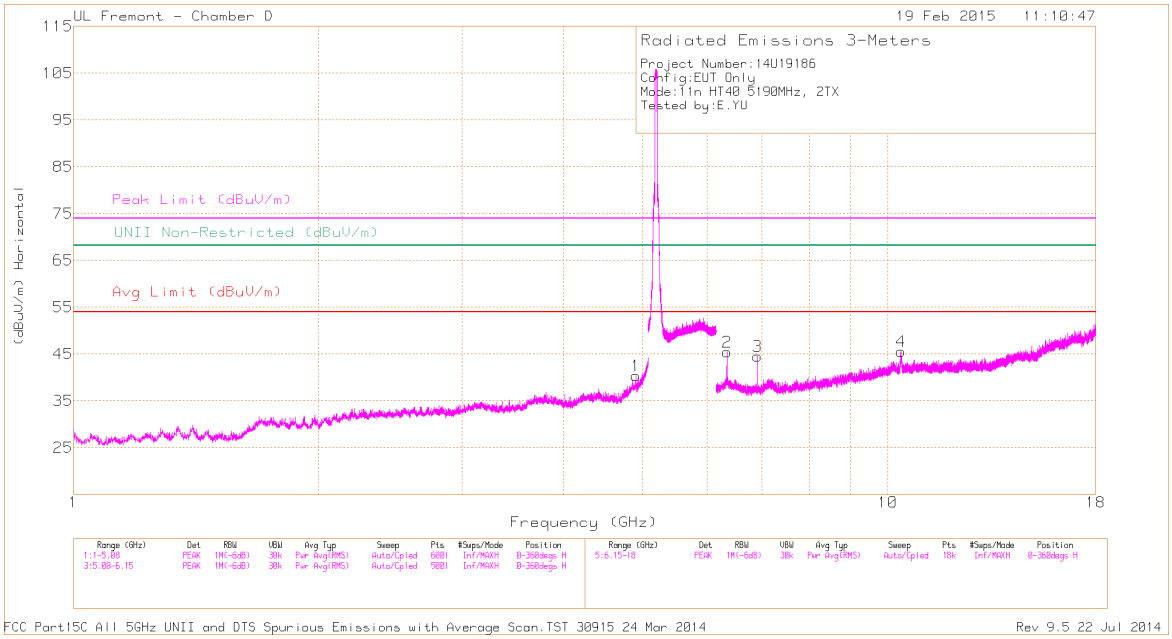
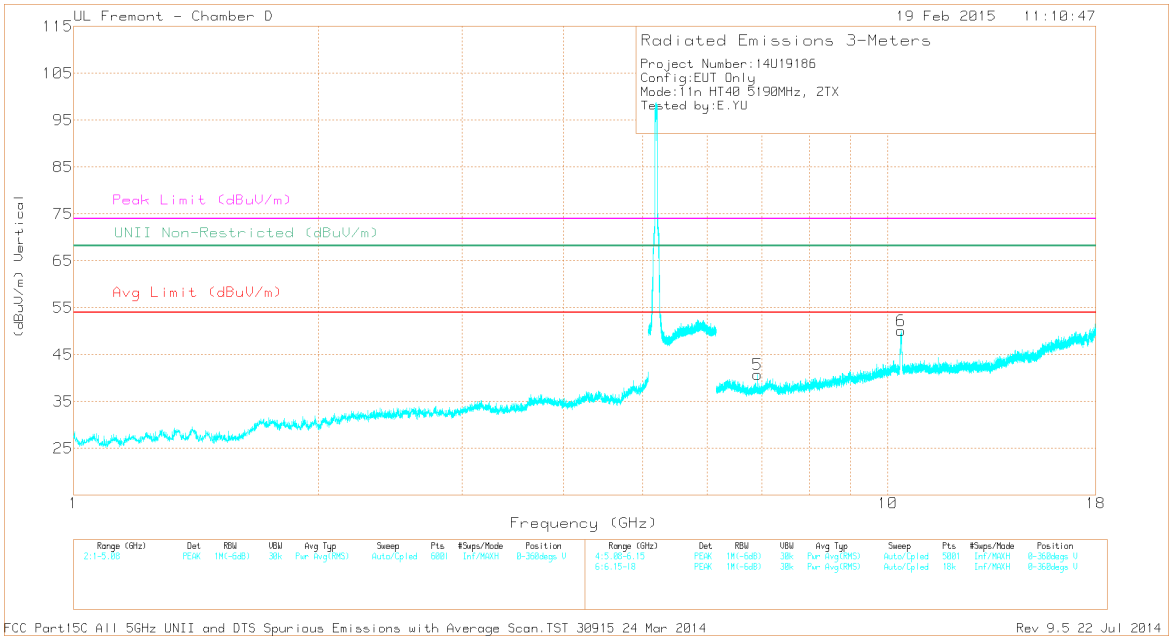
9.5.2. LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (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	* 4.902	38.97	PK1	33.9	-26	46.87	-	-	74	-27.13	-	-	35	264	H
	* 4.902	27.73	AD1	33.9	-26	35.63	54	-18.37	-	-	-	-	35	264	H
2	6.343	40.48	PK1	36	-26	50.48	-	-	-	-	68.2	-17.72	50	103	H
3	6.92	40.7	PK1	35.6	-25.6	50.7	-	-	-	-	68.2	-17.5	31	163	H
5	6.92	37.93	PK1	35.6	-25.6	47.93	-	-	-	-	68.2	-20.27	17	146	V
4	10.378	39.42	PK1	38	-22	55.42	-	-	-	-	68.2	-12.78	6	197	H
6	10.38	45.42	PK1	38	-22.1	61.32	-	-	-	-	68.2	-6.88	3	138	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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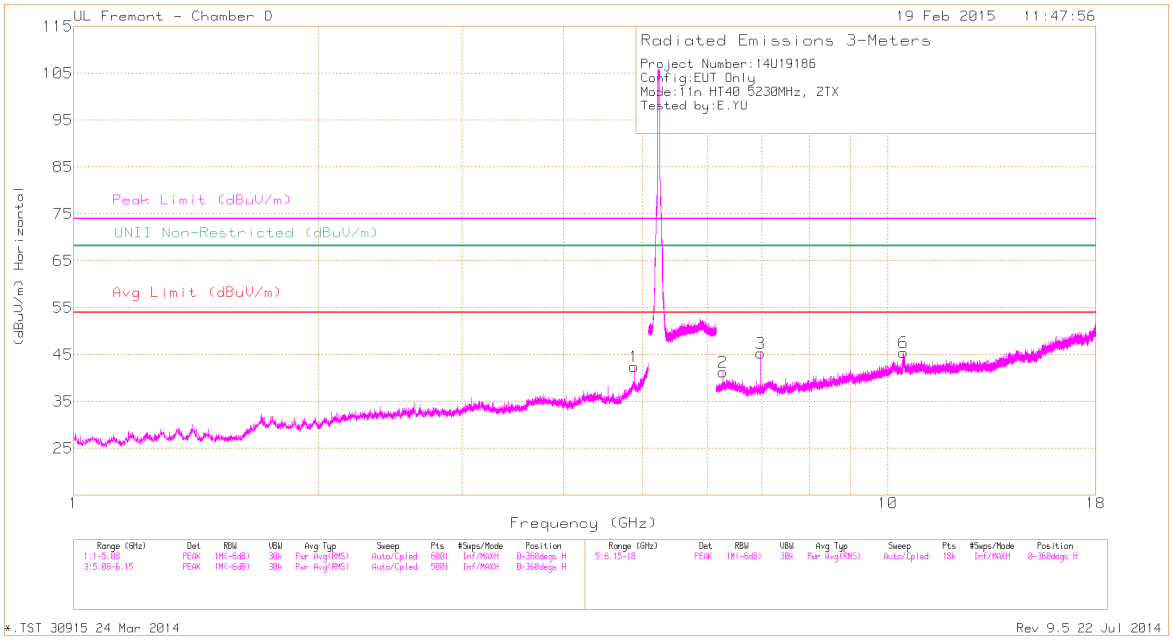
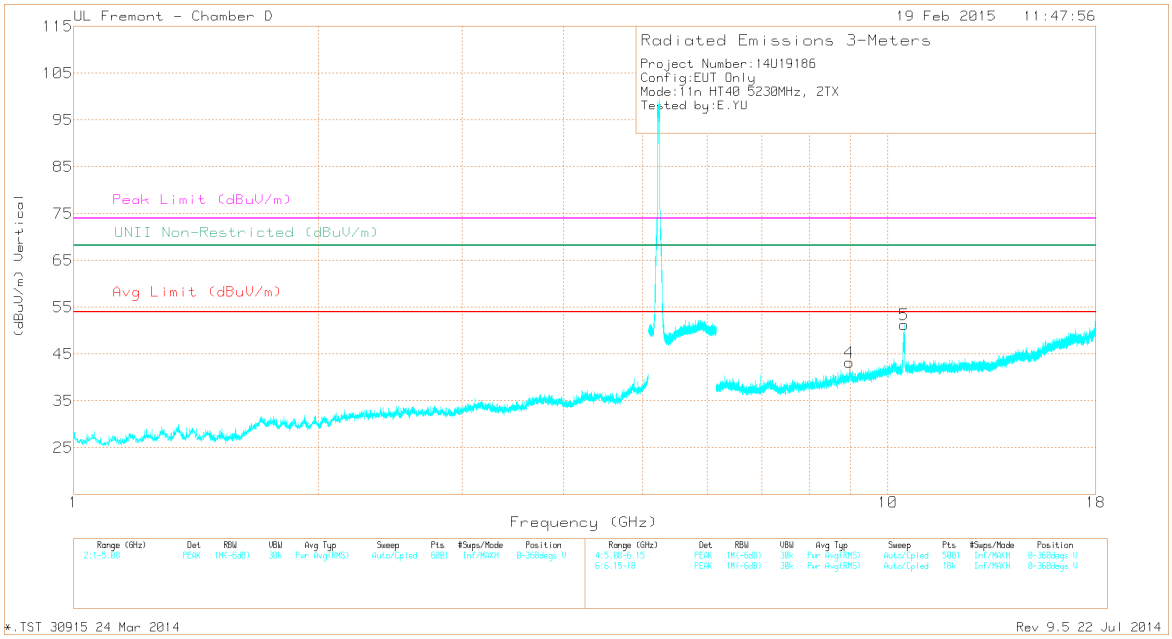
9.5.3. HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (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	* 4.881	39.7	PK1	33.9	-25.3	48.3	-	-	74	-25.7	-	-	4	104	H
	* 4.881	30	AD1	33.9	-25.3	38.6	54	-15.4	-	-	-	-	4	104	H
2	6.276	38.96	PK1	36	-26.2	48.76	-	-	-	-	68.2	-19.44	57	109	H
3	6.973	40.32	PK1	35.6	-26.1	49.82	-	-	-	-	68.2	-18.38	18	249	H
4	8.95	34.94	PK1	36.6	-23.4	48.14	-	-	-	-	68.2	-20.06	306	358	V
6	10.455	38.9	PK1	38.1	-21.7	55.3	-	-	-	-	68.2	-12.9	63	203	H
5	10.455	42.75	PK1	38.1	-21.7	59.15	-	-	-	-	68.2	-9.05	16	111	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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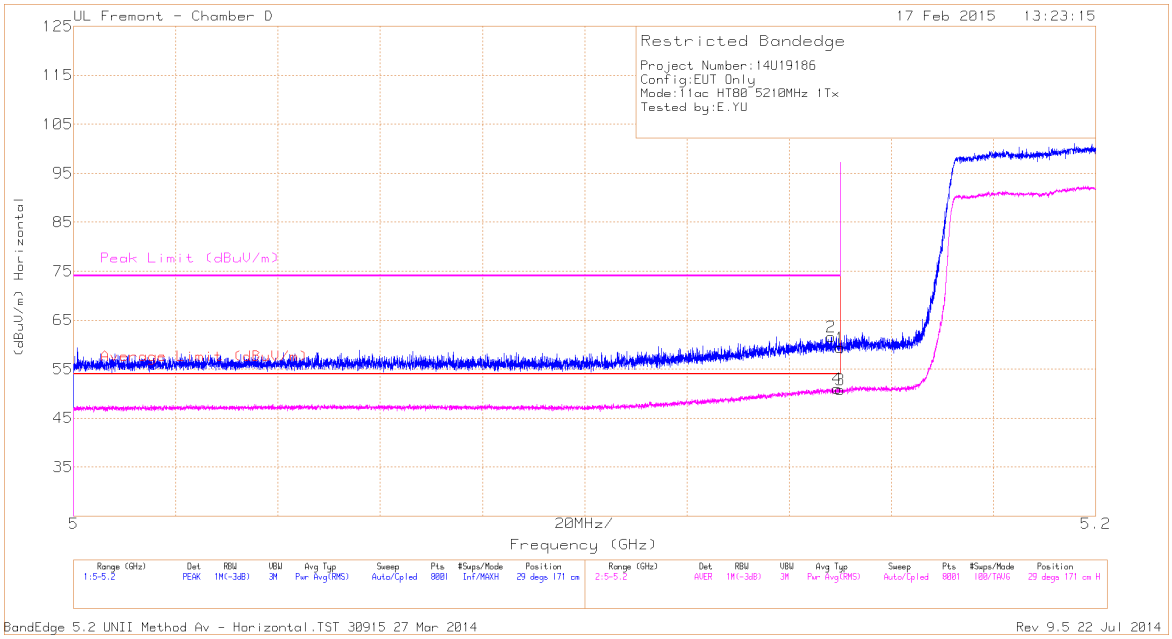
9.6. TX ABOVE 1 GHz 802.11ac VHT80 1TX SISO MODE IN THE 5.2 GHz BAND

9.6.1. RESTRICTED BANDEDGE (LOW CHANNEL, CH 42)

LOW CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (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	43.68	PK	34.2	-18.5	0	59.38	-	-	74	-14.62	29	171	H
2	* 5.148	45.94	PK	34.2	-18.5	0	61.64	-	-	74	-12.36	29	171	H
3	* 5.15	34.84	RMS	34.2	-18.5	.16	50.70	54	-3.30	-	-	29	171	H
4	* 5.149	35.15	RMS	34.2	-18.5	.16	51.01	54	-2.99	-	-	29	171	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

RMS - RMS detection

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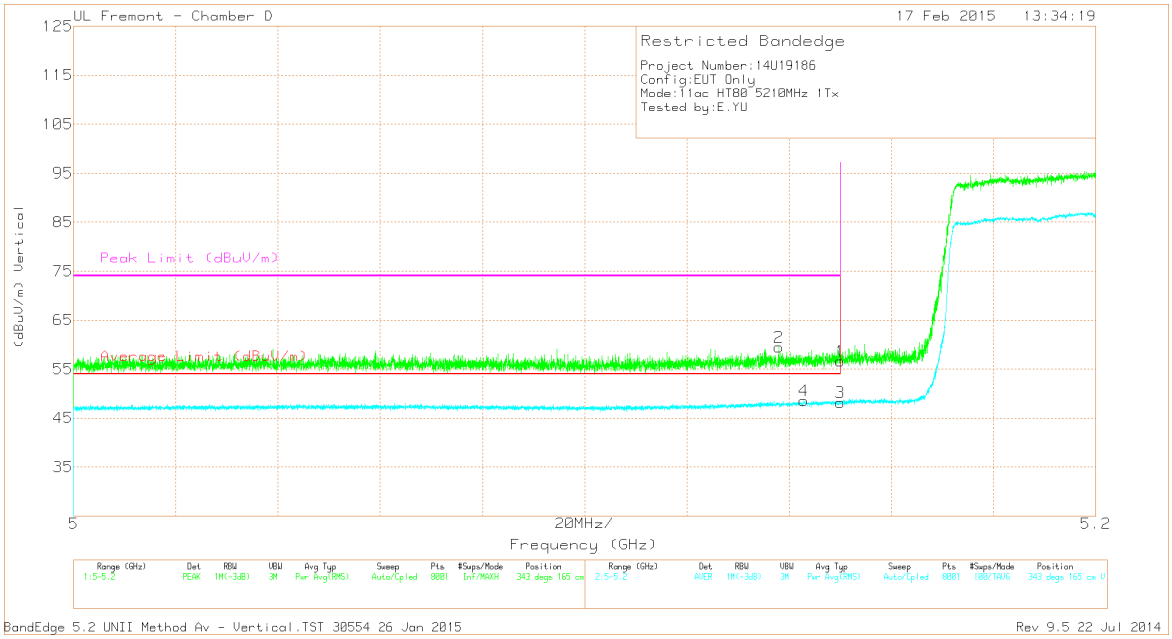
LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.138	43.77	PK	34.2	-18.5	0	59.47	-	-	74	-14.53	343	165	V
4	* 5.143	32.63	RMS	34.2	-18.5	.16	48.49	54	-5.51	-	-	343	165	V
1	* 5.15	40.91	PK	34.2	-18.5	0	56.61	-	-	74	-17.39	343	165	V
3	* 5.15	32.23	RMS	34.2	-18.5	.16	48.09	54	-5.91	-	-	343	165	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

RMS - RMS detection

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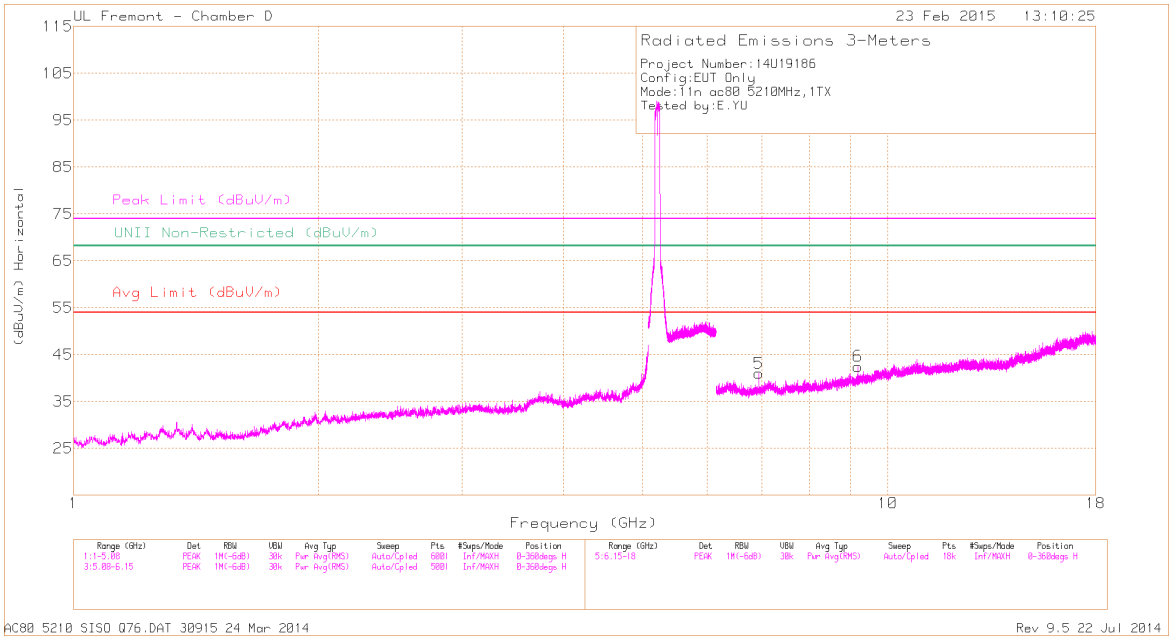
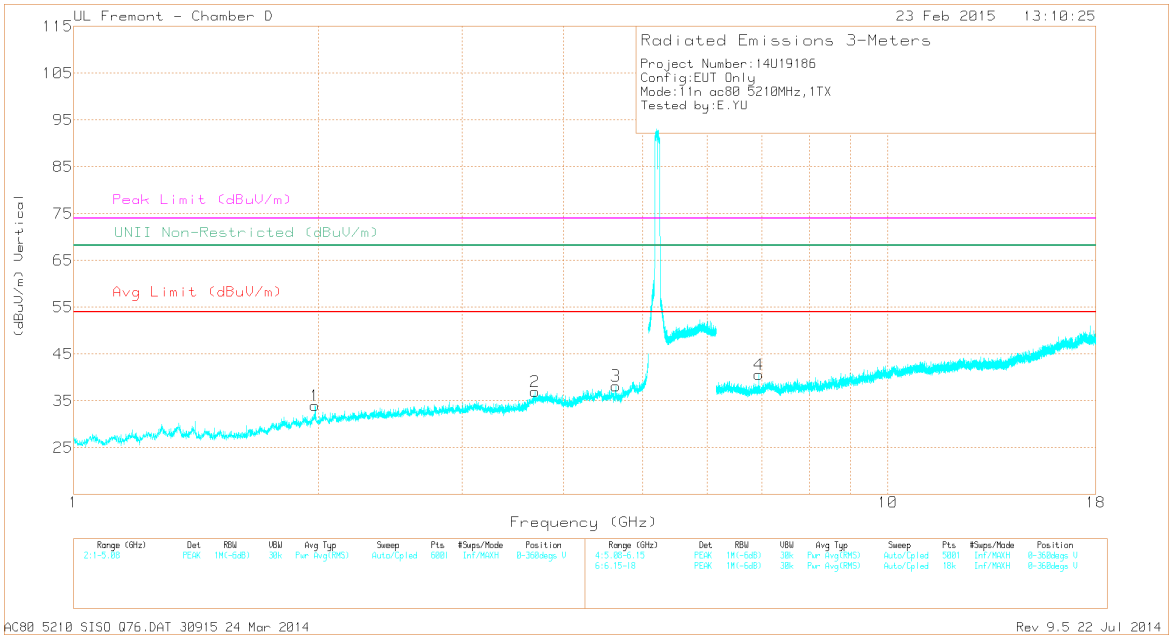
9.6.2. LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.691	38.2	PK1	33.2	-29.2	0	42.2	-	-	74	-31.8	-	-	322	200	V
	* 3.689	27.13	AD1	33.2	-29.2	.16	31.29	54	-22.71	-	-	-	-	322	200	V
3	* 4.63	37.76	PK1	34.1	-27.1	0	44.76	-	-	74	-29.24	-	-	162	100	V
	* 4.633	26.16	AD1	34.1	-27.1	.16	33.32	54	-20.68	-	-	-	-	162	100	V
6	* 9.179	34.13	PK1	36.2	-23.1	0	47.23	-	-	74	-26.77	-	-	187	200	H
	* 9.179	23.23	AD1	36.2	-23.1	.16	36.49	54	-17.51	-	-	-	-	187	200	H
1	1.98	43	PK1	31	-30.8	0	43.2	-	-	-	-	68.2	-25	8	375	V
5	6.947	39.99	PK1	35.5	-25.8	0	49.69	-	-	-	-	68.2	-18.51	24	389	H
4	6.947	38.94	PK1	35.5	-25.8	0	48.64	-	-	-	-	68.2	-19.56	3	104	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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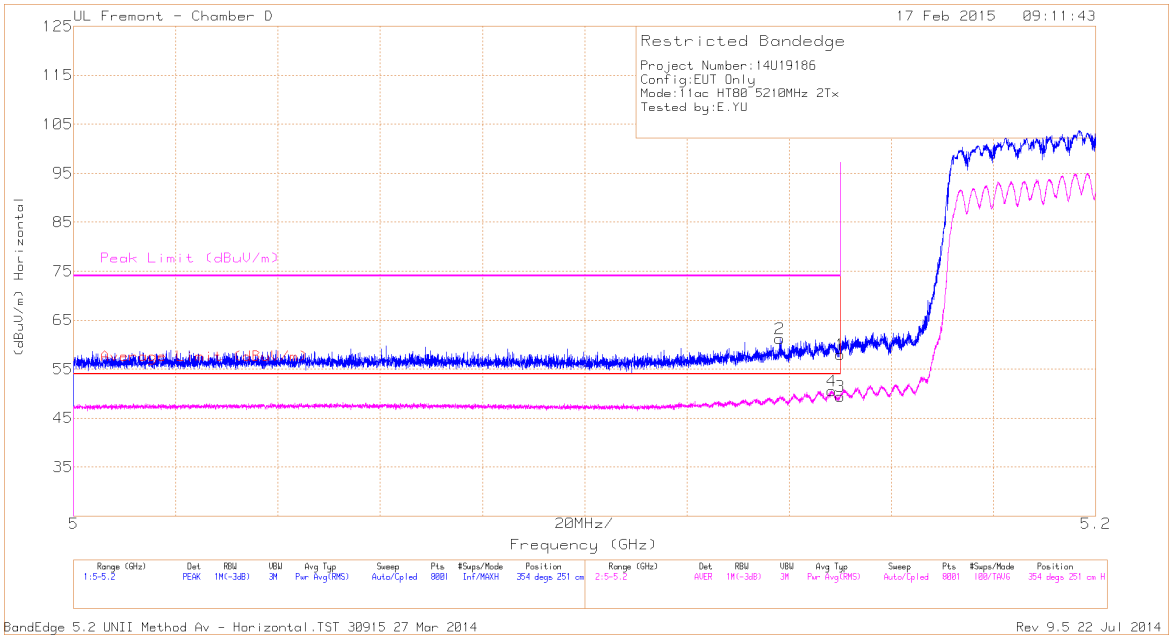
9.7. TX ABOVE 1 GHz 802.11ac VHT80 2TX CDD MODE IN THE 5.2 GHz BAND

9.7.1. RESTRICTED BANDEDGE (LOW CHANNEL, CH 42)

LOW CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (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	42.33	PK	34.2	-18.5	0	58.03	-	-	74	-15.97	354	251	H
2	* 5.138	45.57	PK	34.2	-18.5	0	61.27	-	-	74	-12.73	354	251	H
3	* 5.15	33.52	RMS	34.2	-18.5	.21	49.43	54	-4.57	-	-	354	251	H
4	* 5.148	34.66	RMS	34.2	-18.5	.21	50.57	54	-3.43	-	-	354	251	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

RMS - RMS detection

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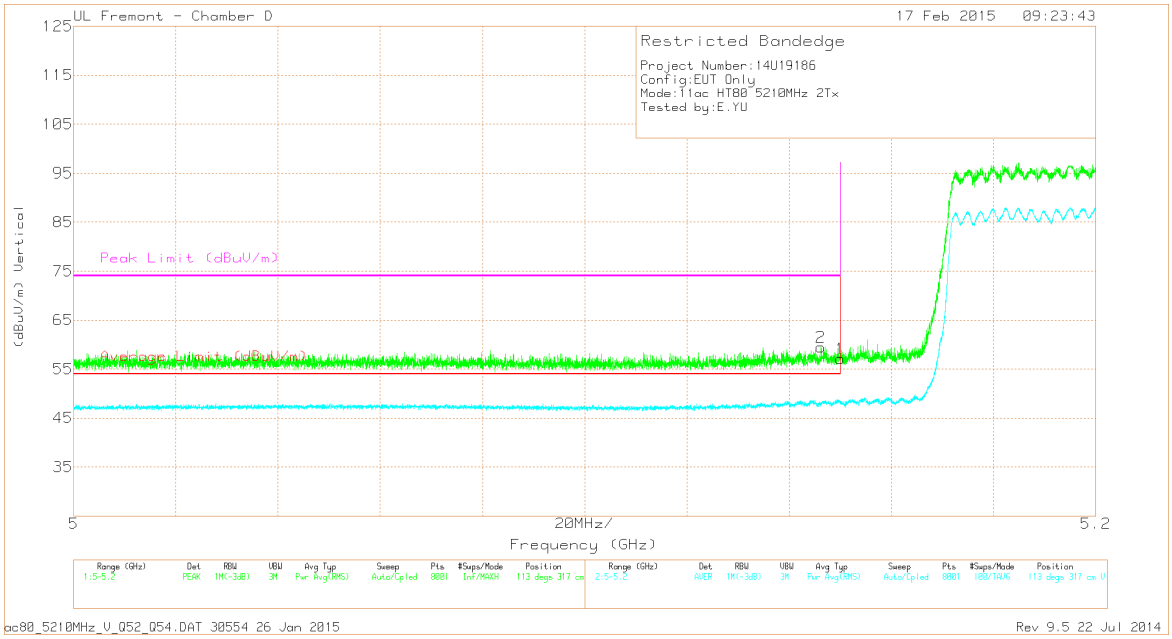
LOW CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (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	41.45	PK	34.2	-18.5	0	57.15	-	-	74	-16.85	113	317	V
2	* 5.146	43.8	PK	34.2	-18.5	0	59.5	-	-	74	-14.5	113	317	V
3	* 5.15	31.85	RMS	34.2	-18.5	.21	47.76	54	-6.24	-	-	113	317	V
4	* 5.149	32.95	RMS	34.2	-18.5	.21	48.86	54	-5.14	-	-	113	317	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

RMS - RMS detection

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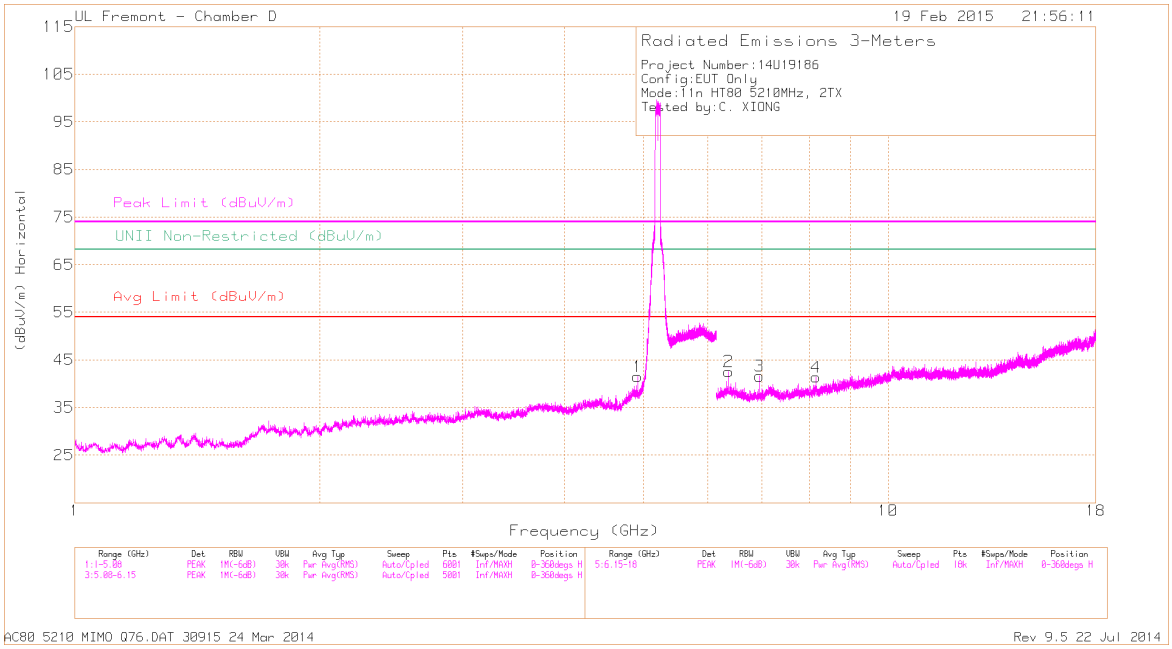
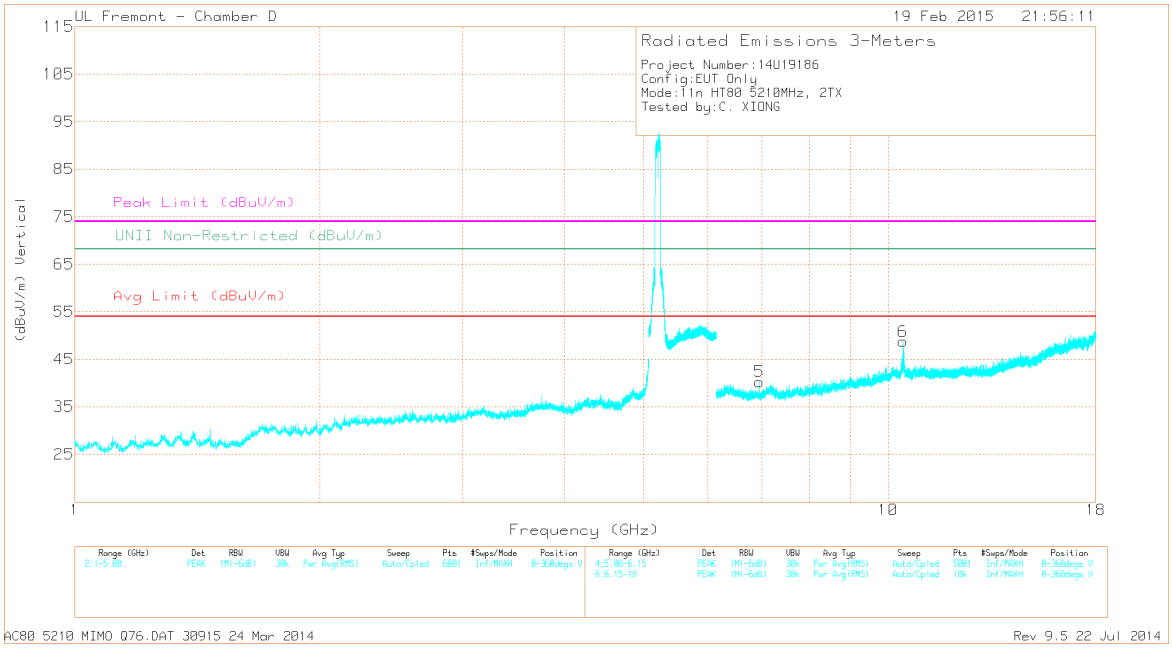
9.7.2. LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.921	41.64	PK1	33.9	-26.5	0	49.04	-	-	74	-24.96	-	-	321	152	H
	* 4.92	32.61	AD1	33.9	-26.5	.21	40.22	54	-13.78	-	-	-	-	321	152	H
4	* 8.153	35.85	PK1	36.1	-23.9	0	48.05	-	-	74	-25.95	-	-	42	320	H
	* 8.155	23.93	AD1	36.1	-24	.21	36.24	54	-17.76	-	-	-	-	42	320	H
2	6.368	39.1	PK1	36	-26.1	0	49	-	-	-	-	68.2	-19.2	37	159	H
3	6.946	39.03	PK1	35.6	-25.8	0	48.83	-	-	-	-	68.2	-19.37	360	383	H
5	6.947	37.99	PK1	35.6	-25.8	0	47.79	-	-	-	-	68.2	-20.41	12	106	V
6	10.437	37.5	PK1	38.1	-22	0	53.6	-	-	-	-	68.2	-14.6	228	255	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 771-1000 FAX: (510) 661-0888
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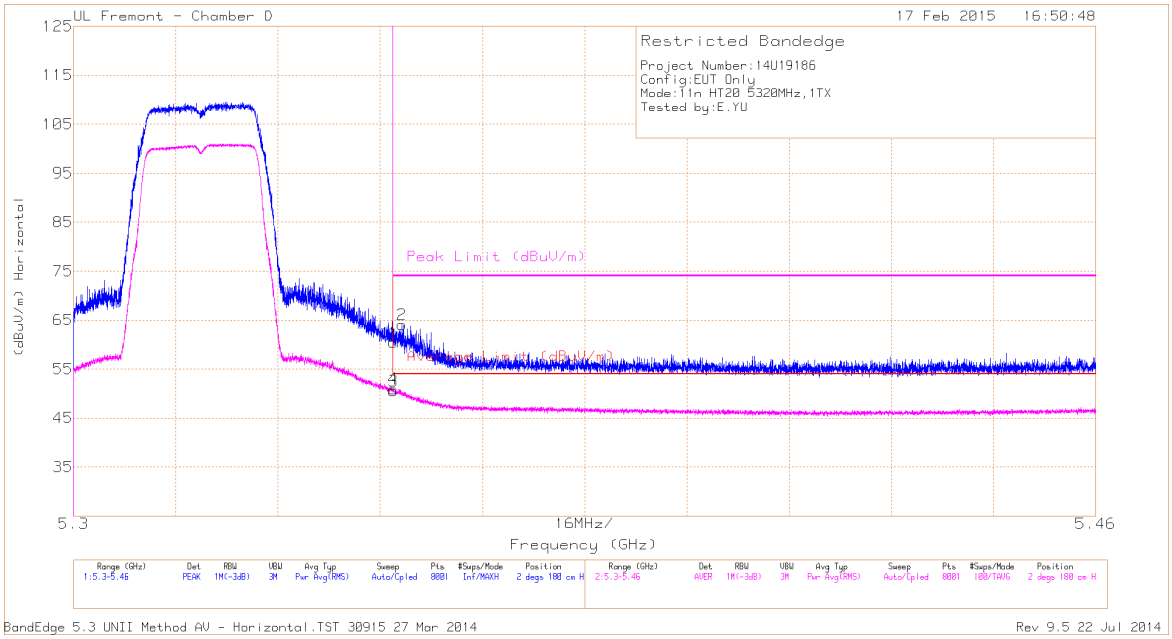
9.8. TX ABOVE 1 GHz 802.11n HT20 SISO MODE IN THE 5.3 GHz BAND

9.8.1. RESTRICTED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fltr/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	44.62	PK	34.3	-18.5	60.42	-	-	74	-13.58	2	180	H
2	* 5.351	48.27	PK	34.3	-18.5	64.07	-	-	74	-9.93	2	180	H
3	* 5.35	34.7	RMS	34.3	-18.5	50.5	54	-3.5	-	-	2	180	H
4	* 5.35	35.17	RMS	34.3	-18.5	50.97	54	-3.03	-	-	2	180	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

RMS - RMS detection

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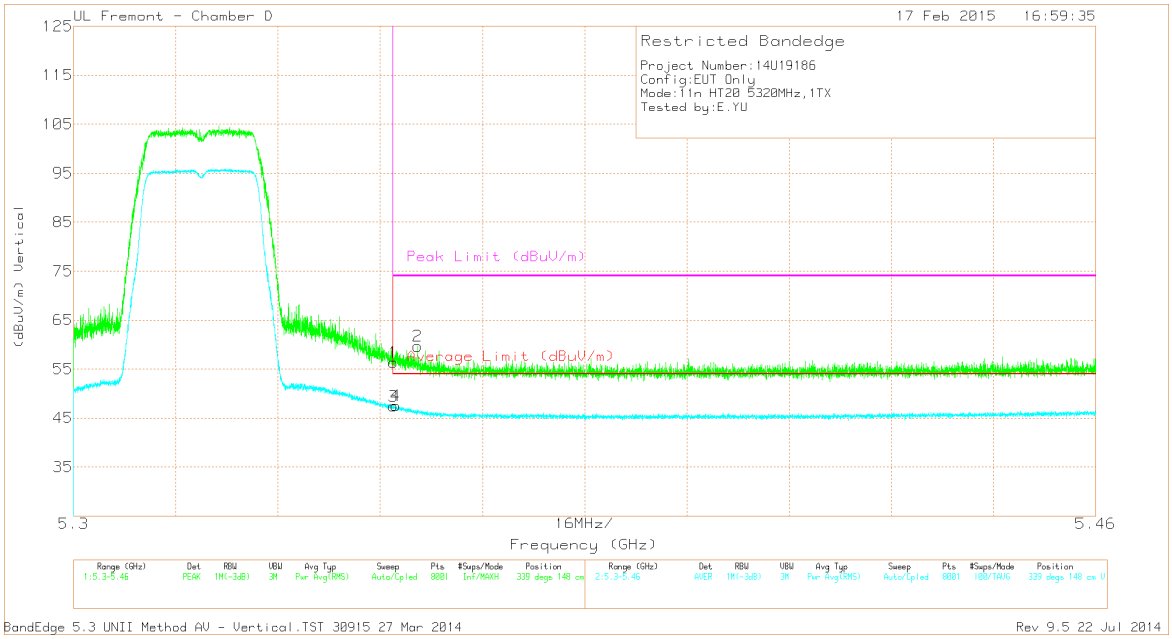
HIGH CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (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
1	* 5.35	40.57	PK	34.3	-18.5	56.37	-	-	74	-17.63	339	148	V
2	* 5.354	43.87	PK	34.3	-18.5	59.67	-	-	74	-14.33	339	148	V
3	* 5.35	31.61	RMS	34.3	-18.5	47.41	54	-6.59	-	-	339	148	V
4	* 5.35	31.76	RMS	34.3	-18.5	47.56	54	-6.44	-	-	339	148	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

RMS - RMS detection

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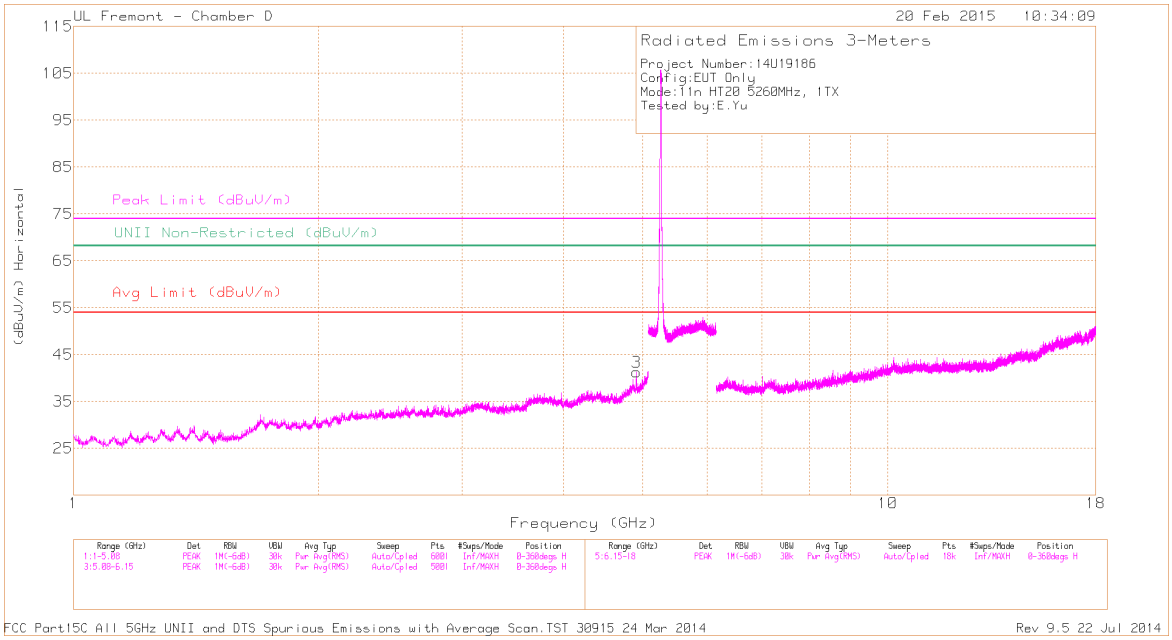
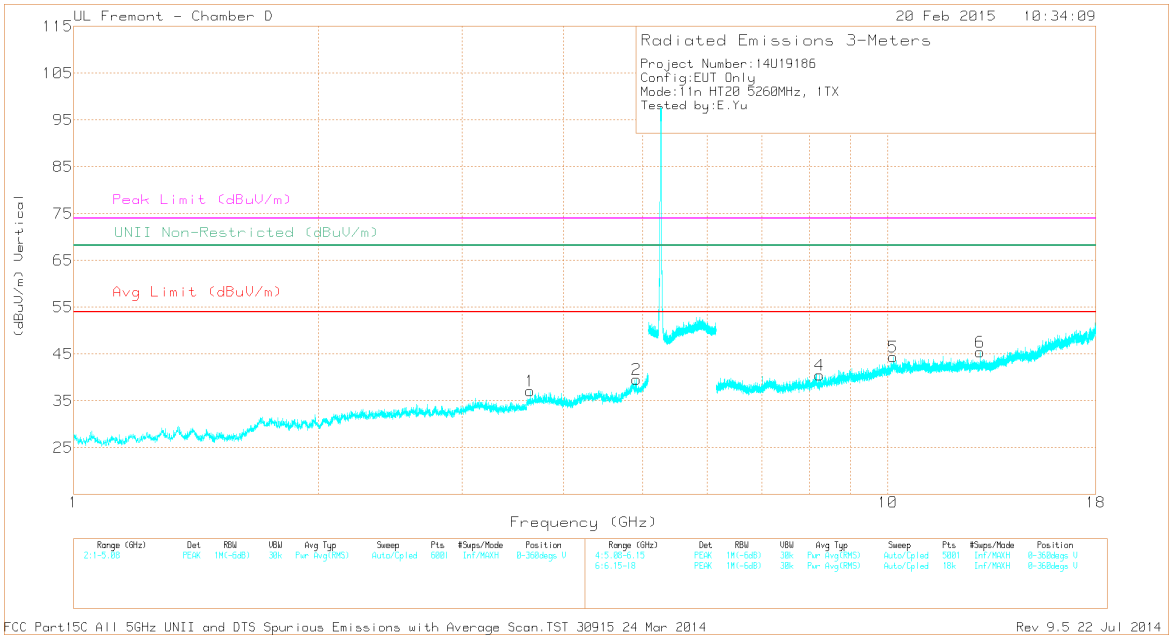
9.8.2. LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (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	* 4.909	40.35	PK1	33.9	-26.2	48.05	-	-	74	-25.95	-	-	269	113	H
	* 4.909	30.39	AD1	33.9	-26.2	38.09	54	-15.91	-	-	-	-	269	113	H
1	* 3.635	38.57	PK1	33.1	-29.1	42.57	-	-	74	-31.43	-	-	259	205	V
	* 3.636	26.88	AD1	33.1	-29.1	30.88	54	-23.12	-	-	-	-	259	205	V
2	* 4.909	40.08	PK1	33.9	-26.2	47.78	-	-	74	-26.22	-	-	218	279	V
	* 4.909	29.04	AD1	33.9	-26.2	36.74	54	-17.26	-	-	-	-	218	279	V
4	* 8.244	36.57	PK1	36.1	-24.8	47.87	-	-	74	-26.13	-	-	183	100	V
	* 8.245	24.07	AD1	36.1	-24.8	35.37	54	-18.63	-	-	-	-	183	100	V
5	10.151	33.62	PK1	37.9	-20.8	50.72	-	-	-	-	68.2	-17.48	282	206	V
6	12.985	35.83	PK1	38.8	-22.1	52.53	-	-	-	-	68.2	-15.67	208	203	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

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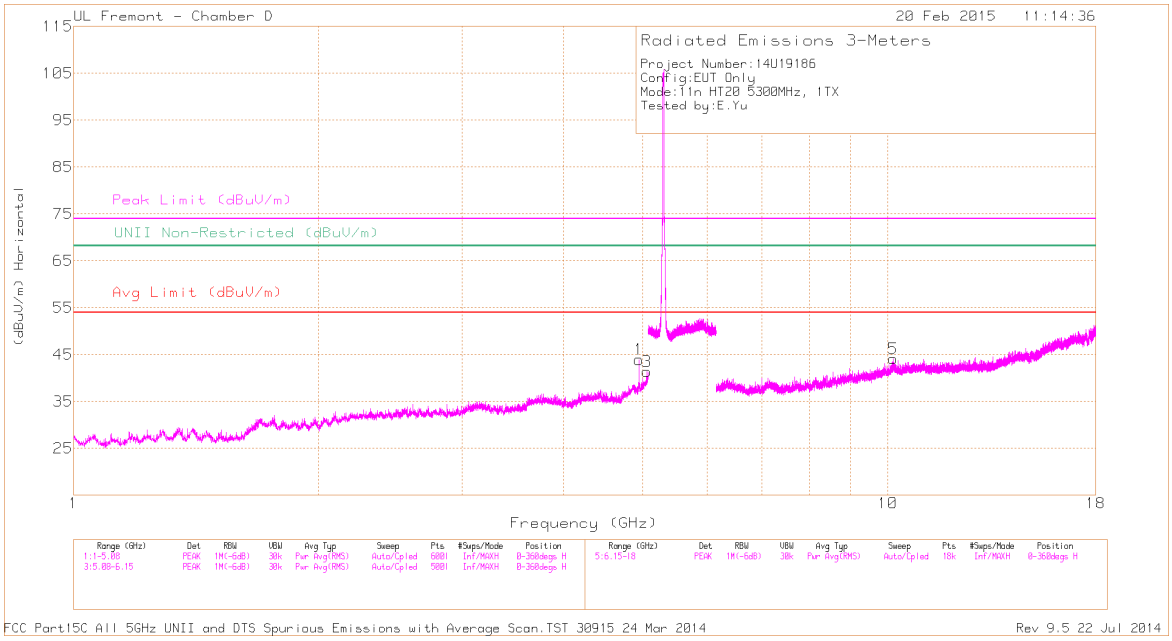
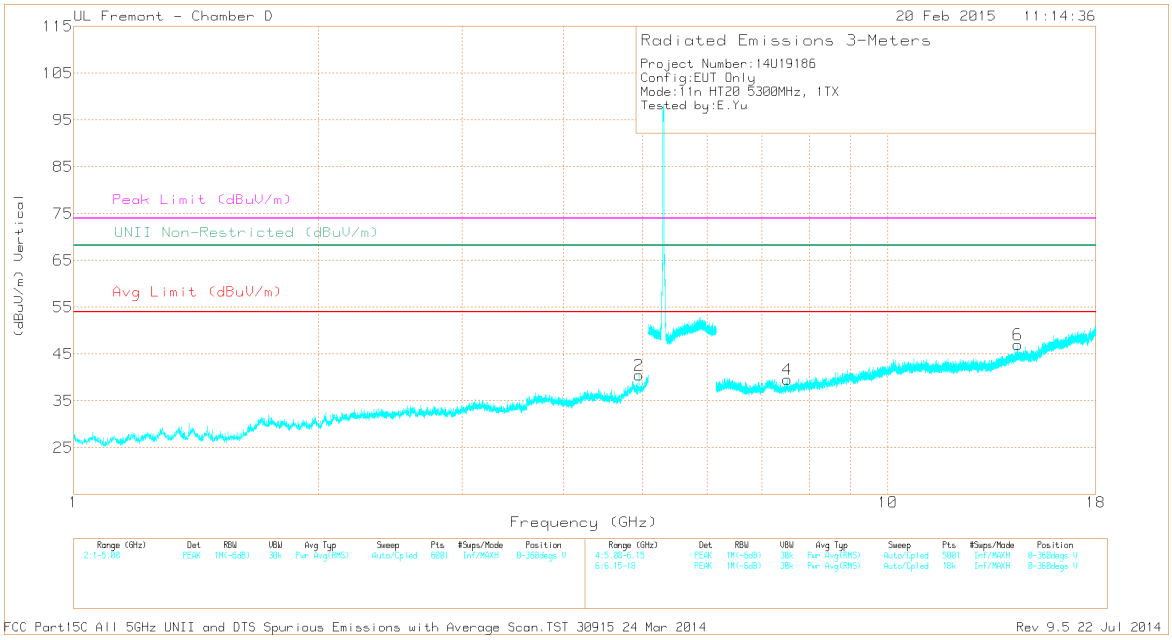
9.8.3. MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



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DATA

	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (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	* 4.947	41.67	PK1	33.9	-26.9	48.67	-	-	74	-25.33	-	-	208	105	H
	* 4.947	33.11	AD1	33.9	-26.9	40.11	54	-13.89	-	-	-	-	208	105	H
3	* 5.057	39.07	PK1	34	-25.9	47.17	-	-	74	-26.83	-	-	121	206	H
	* 5.057	27.06	AD1	34	-25.9	35.16	54	-18.84	-	-	-	-	121	206	H
2	* 4.947	40.12	PK1	33.9	-26.9	47.12	-	-	74	-26.88	-	-	198	100	V
	* 4.947	30.84	AD1	33.9	-26.9	37.84	54	-16.16	-	-	-	-	198	100	V
4	* 7.523	36.49	PK1	35.5	-24.8	47.19	-	-	74	-26.81	-	-	156	100	V
	* 7.522	24.22	AD1	35.5	-24.7	35.02	54	-18.98	-	-	-	-	156	100	V
5	10.156	34.26	PK1	37.9	-20.6	51.56	-	-	-	-	68.2	-16.64	14	100	H
6	14.451	35.25	PK1	40	-22.3	52.95	-	-	-	-	68.2	-15.25	25	100	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

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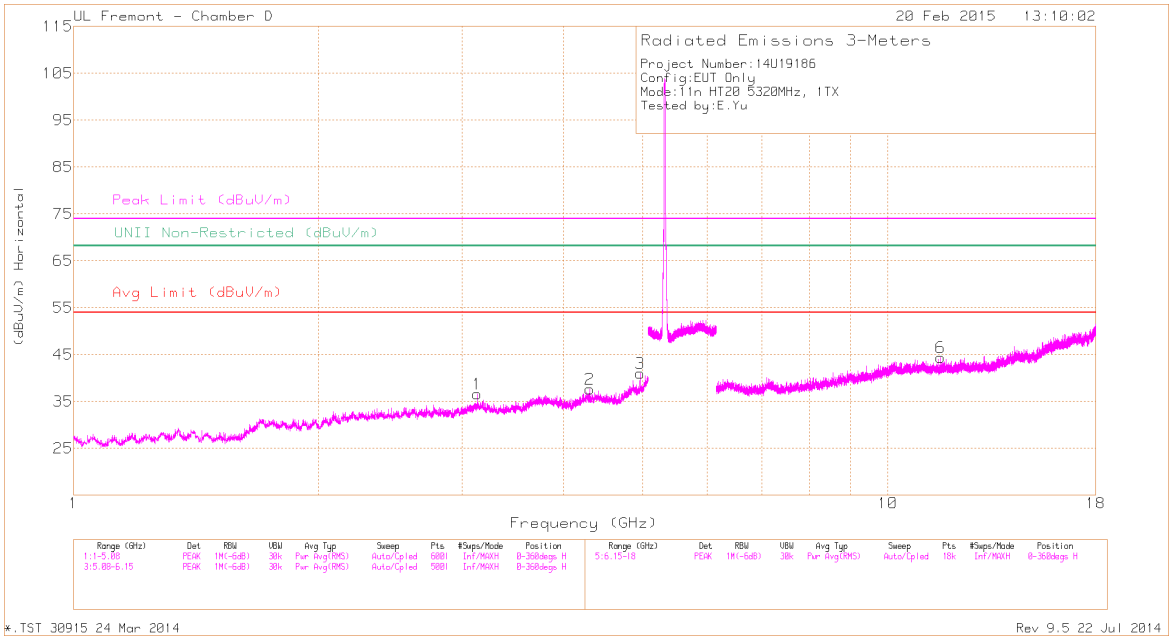
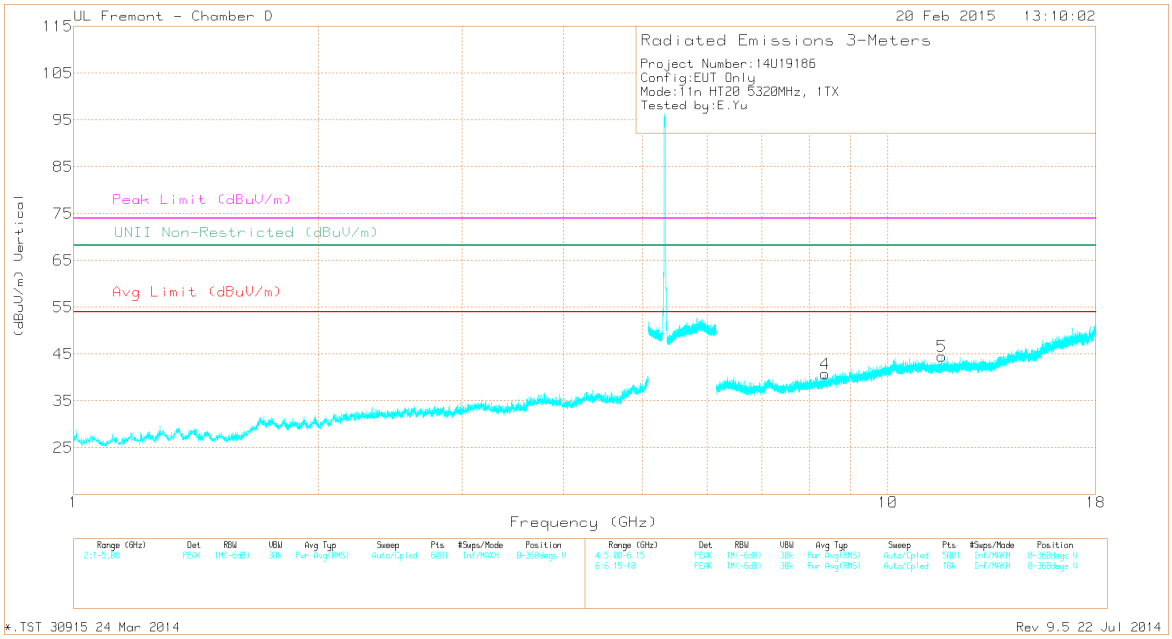
9.8.4. HIGH CHANNEL HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



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DATA

	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (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	* 4.3	37.65	PK1	33.4	-28.2	42.85	-	-	74	-31.15	-	-	69	117	H
	* 4.3	26.35	AD1	33.5	-28.3	31.55	54	-22.45	-	-	-	-	69	117	H
3	* 4.965	41.18	PK1	33.9	-26.8	48.28	-	-	74	-25.72	-	-	319	122	H
	* 4.965	31.69	AD1	33.9	-26.8	38.79	54	-15.21	-	-	-	-	319	122	H
6	* 11.599	33.94	PK1	38.1	-21.8	50.24	-	-	74	-23.76	-	-	14	205	H
	* 11.601	22.73	AD1	38.2	-21.8	39.13	54	-14.87	-	-	-	-	14	205	H
4	* 8.378	35.46	PK1	36.1	-23.6	47.96	-	-	74	-26.04	-	-	19	100	V
	* 8.38	23.83	AD1	36.1	-23.6	36.33	54	-17.67	-	-	-	-	19	100	V
5	* 11.642	33.55	PK1	38.2	-21.6	50.15	-	-	74	-23.85	-	-	71	100	V
	* 11.642	22.56	AD1	38.2	-21.6	39.16	54	-14.84	-	-	-	-	71	100	V
1	3.132	39.04	PK1	33	-28.7	43.34	-	-	-	-	68.2	-24.86	6	327	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

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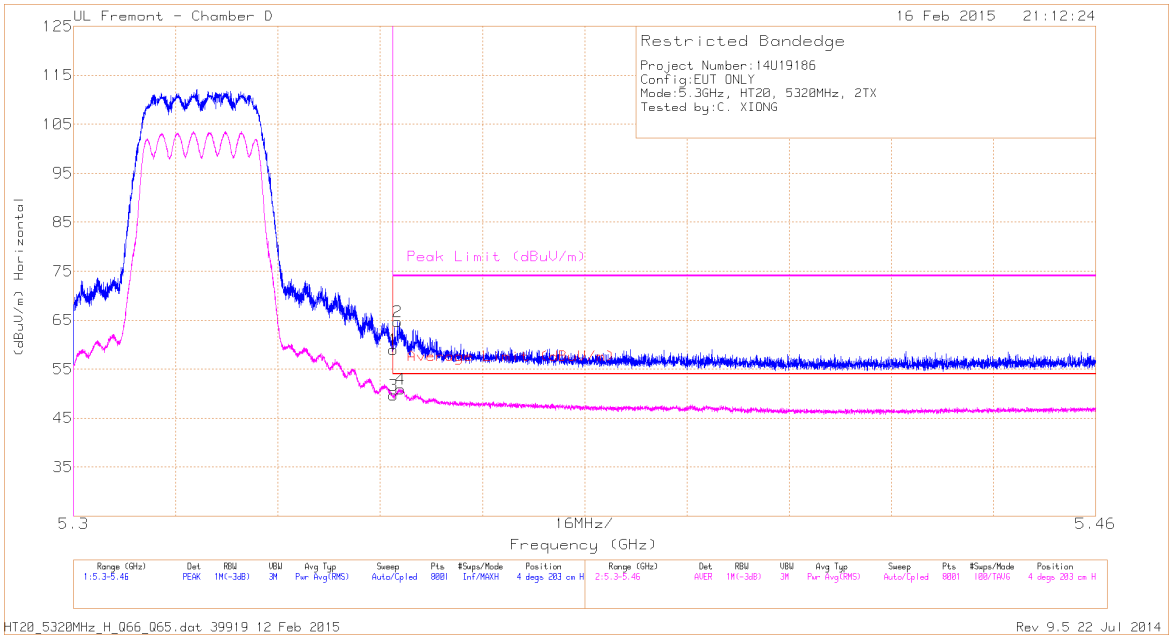
9.9. TX ABOVE 1 GHz 802.11n HT20 2Tx CDD MODE IN THE 5.3 GHz BAND

9.9.1. RESTRICTED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL HORIZONTAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Fltr/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	43.2	PK	34.3	-18.5	59	-	-	74	-15	4	203	H
2	* 5.351	48.86	PK	34.3	-18.5	64.66	-	-	74	-9.34	4	203	H
3	* 5.35	33.87	RMS	34.3	-18.5	49.67	54	-4.33	-	-	4	203	H
4	* 5.351	35.14	RMS	34.3	-18.5	50.94	54	-3.06	-	-	4	203	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

RMS - RMS detection

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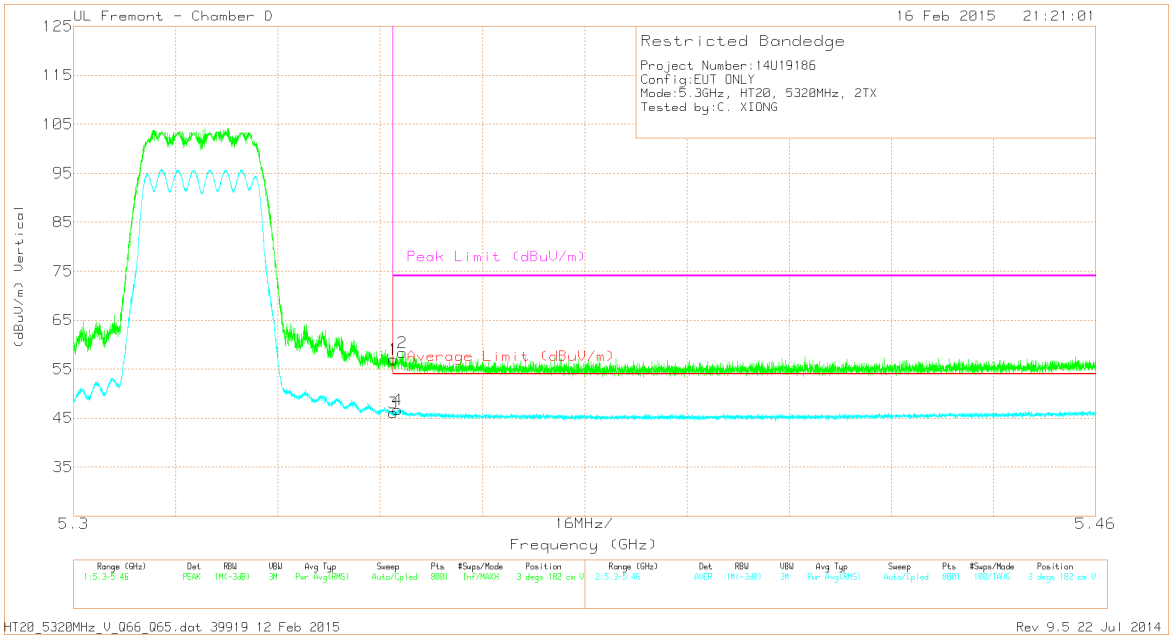
HIGH CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/ Fltr/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	41.16	PK	34.3	-18.5	56.96	-	-	74	-17.04	3	182	V
2	* 5.352	42.59	PK	34.3	-18.5	58.39	-	-	74	-15.61	3	182	V
3	* 5.35	30.25	RMS	34.3	-18.5	46.05	54	-7.95	-	-	3	182	V
4	* 5.351	30.87	RMS	34.3	-18.5	46.67	54	-7.33	-	-	3	182	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector

RMS - RMS detection

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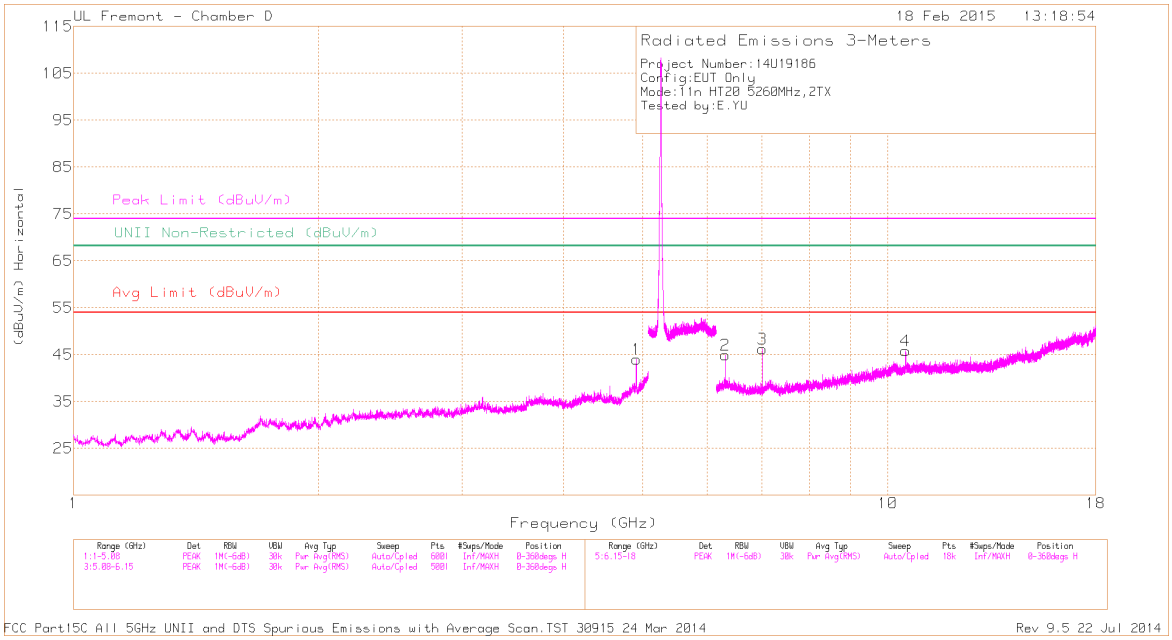
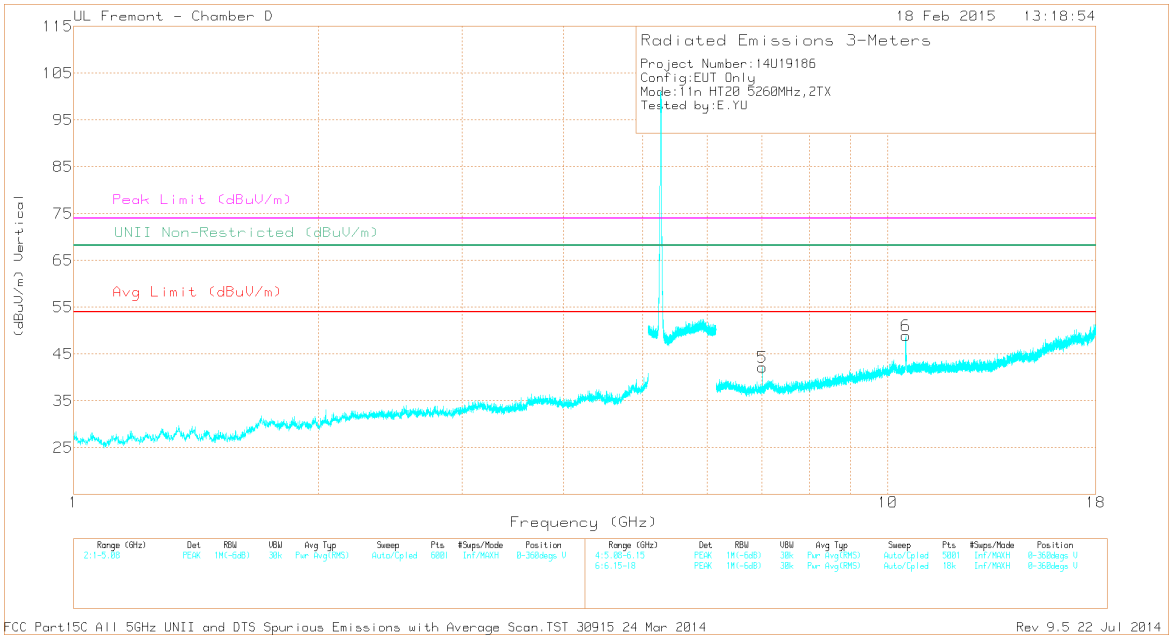
9.9.2. LOW CHANNEL HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



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DATA

	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (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	* 4.909	41.01	PK1	33.9	-26.2	48.71	-	-	74	-25.29	-	-	27	100	H
	* 4.909	33.13	AD1	33.9	-26.2	40.83	54	-13.17	-	-	-	-	27	100	H
2	6.312	40.24	PK1	36	-26	50.24	-	-	-	-	68.2	-17.96	37	102	H
3	7.013	41.93	PK1	35.6	-26.3	51.23	-	-	-	-	68.2	-16.97	23	303	H
5	7.013	40.24	PK1	35.6	-26.3	49.54	-	-	-	-	68.2	-18.66	360	184	V
6	10.508	41.88	PK1	38.1	-21.6	58.38	-	-	-	-	68.2	-9.82	19	116	V
4	10.511	38.69	PK1	38.1	-21.6	55.19	-	-	-	-	68.2	-13.01	65	205	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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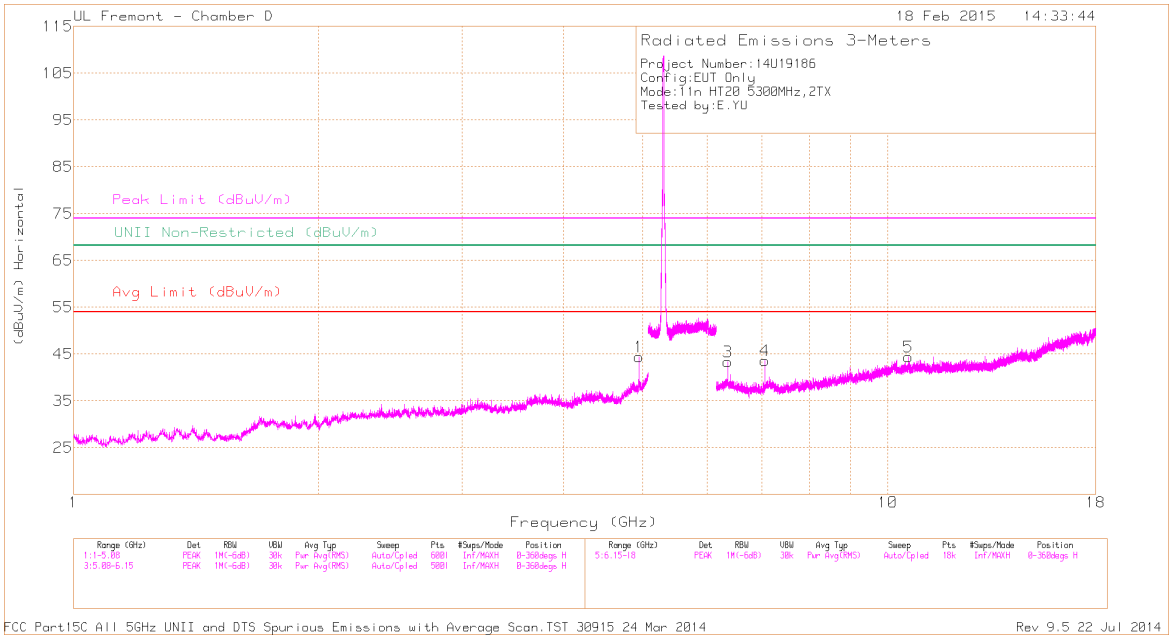
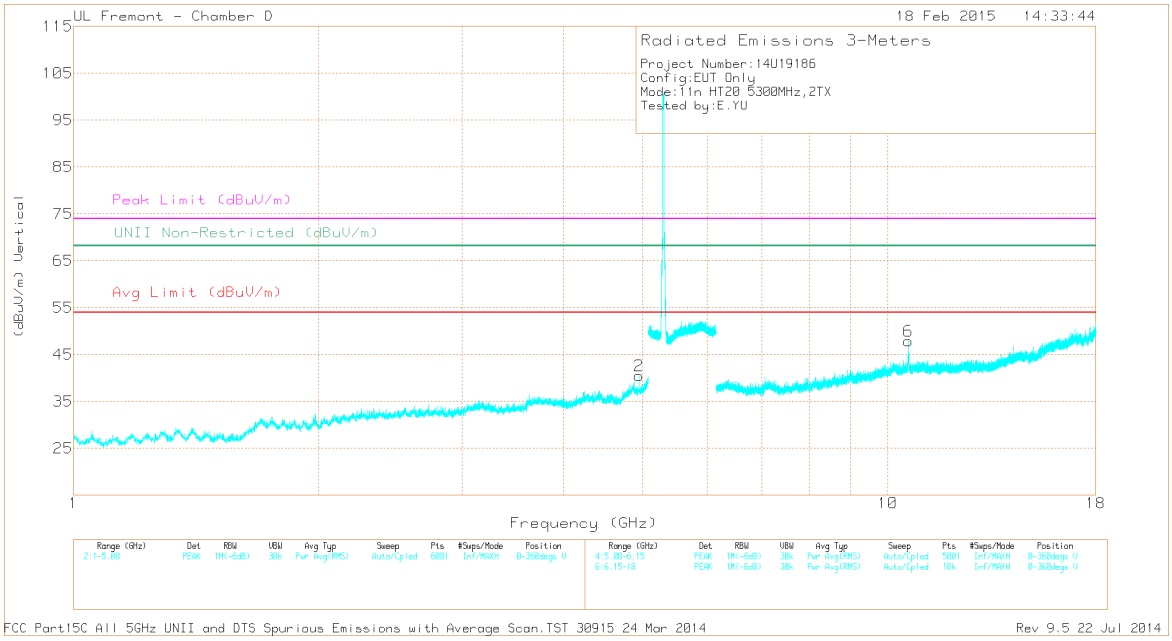
9.9.3. MID CHANNEL HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT



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DATA

	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (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	* 4.947	42.36	PK1	33.9	-26.9	49.36	-	-	74	-24.64	-	-	347	106	H
	* 4.947	34.55	AD1	33.9	-26.9	41.55	54	-12.45	-	-	-	-	347	106	H
2	* 4.947	40.35	PK1	33.9	-26.9	47.35	-	-	74	-26.65	-	-	17	124	V
	* 4.947	29.28	AD1	33.9	-26.9	36.28	54	-17.72	-	-	-	-	17	124	V
6	* 10.603	36.34	PK1	38.1	-21.5	52.94	-	-	74	-21.06	-	-	19	267	V
	* 10.603	24.65	AD1	38.1	-21.5	41.25	54	-12.75	-	-	-	-	19	267	V
3	6.36	40.35	PK1	36	-26	50.35	-	-	-	-	68.2	-17.85	52	100	H
4	7.067	39.63	PK1	35.6	-25.9	49.33	-	-	-	-	68.2	-18.87	351	201	H
5	10.597	34.68	PK1	38.1	-21.4	51.38	-	-	-	-	68.2	-16.82	120	393	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

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