RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Low	5755	3.76	30.00
High	5795	3.76	30.00

Duty Cycle CF (dB)	0.13	Included in Calculations of Corr'd Power

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	11.35	11.48	30.00	-18.52
High	5795	15.42	15.55	30.00	-14.45

9.19.6. 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.

RESULTS

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	PSD Limit (dBm)
Low	5755	3.76	30.00
High	5795	3.76	30.00

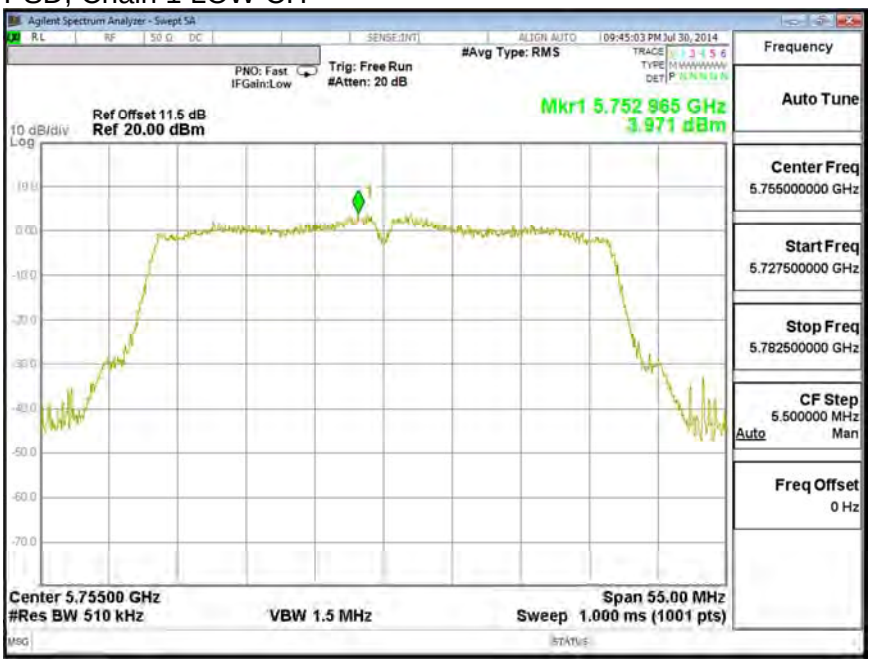
Duty Cycle CF (dB)	0.13	Included in Calculations of Corr'd PSD

PSD Results

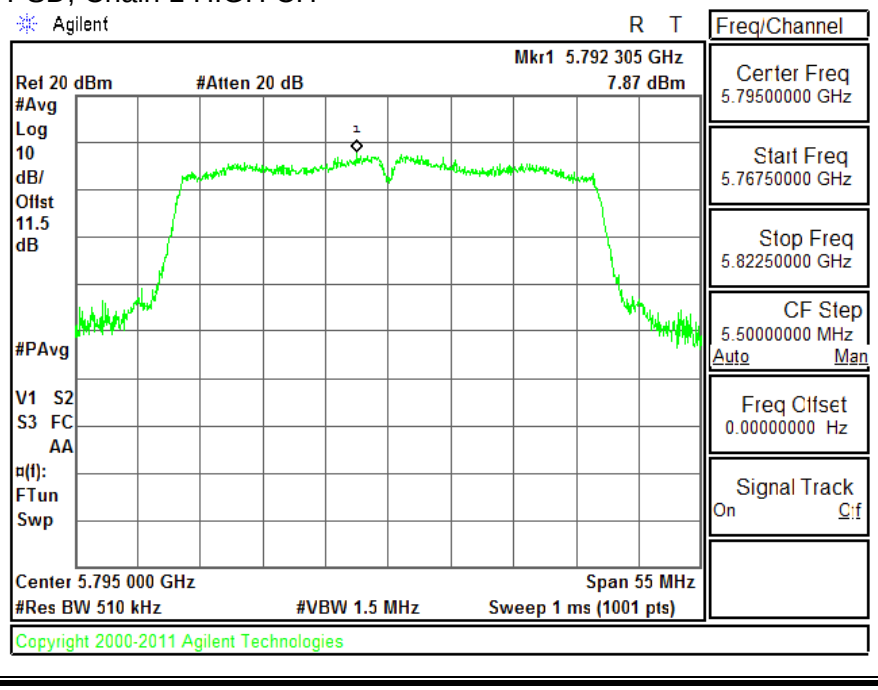
Channel	Frequency (MHz)	Chain 1 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5755	3.97	4.10	30.00	-25.90
High	5795	7.87	8.00	30.00	-22.00

PSD, Chain 1

PSD, Chain 1 LOW CH



PSD, Chain 1 HIGH CH



9.20. 802.11n HT40 2Tx MODE IN THE 5.8 GHz BAND

9.20.1. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

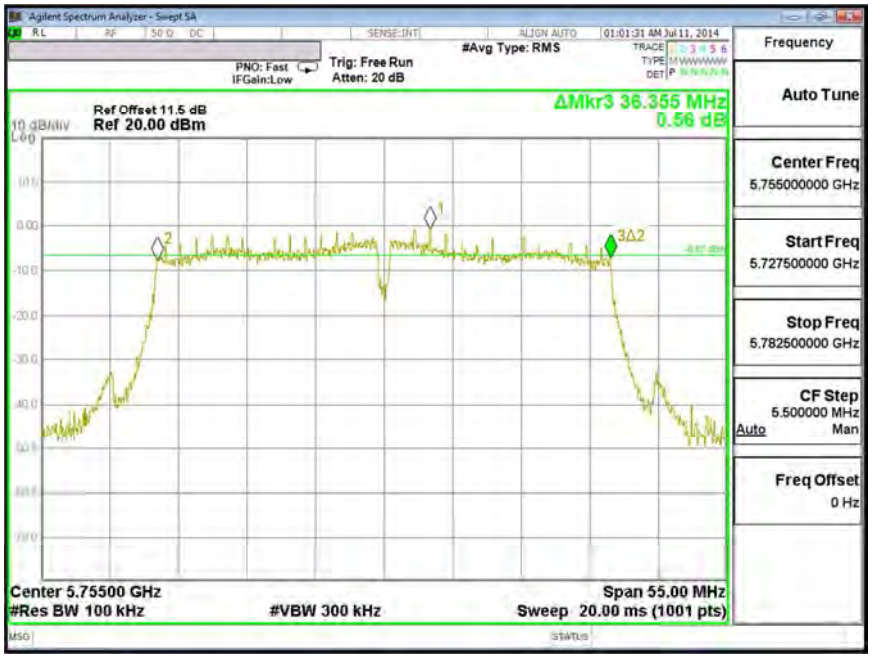
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

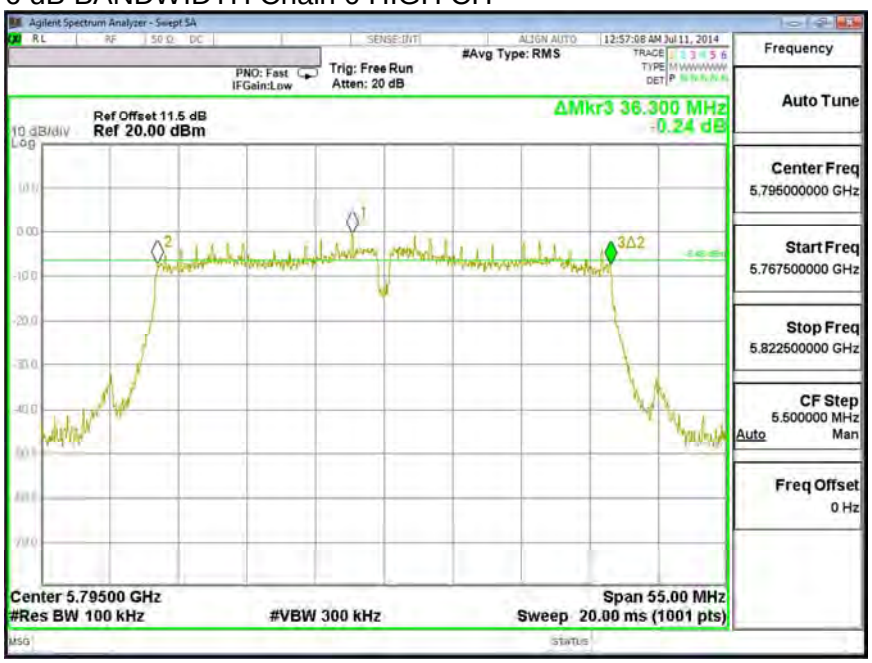
Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
Low	5755	36.36	36.36	0.5
High	5795	36.30	36.36	0.5

6 dB BANDWIDTH, Chain 0

6 dB BANDWIDTH Chain 0 LOW CH

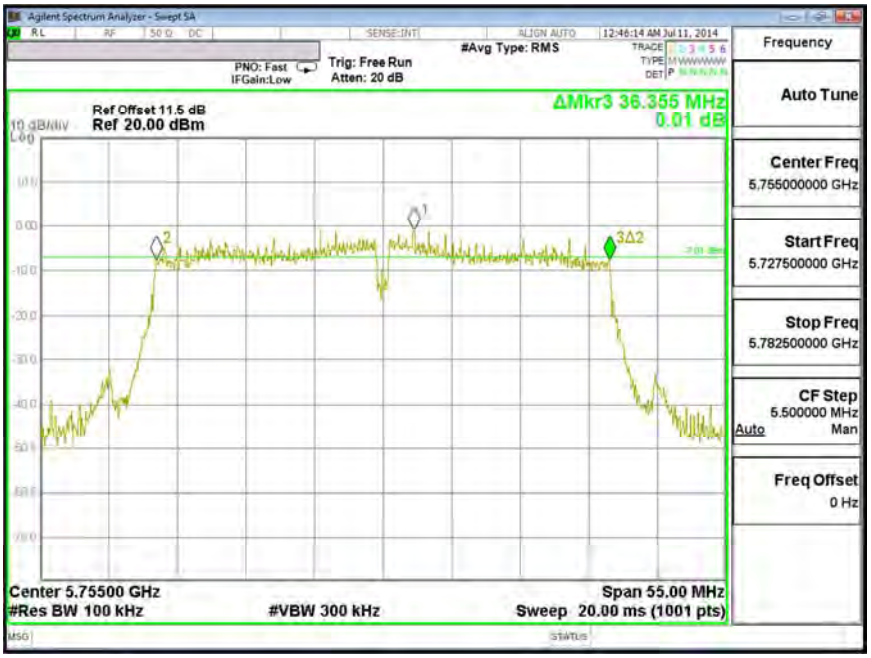


6 dB BANDWIDTH Chain 0 HIGH CH

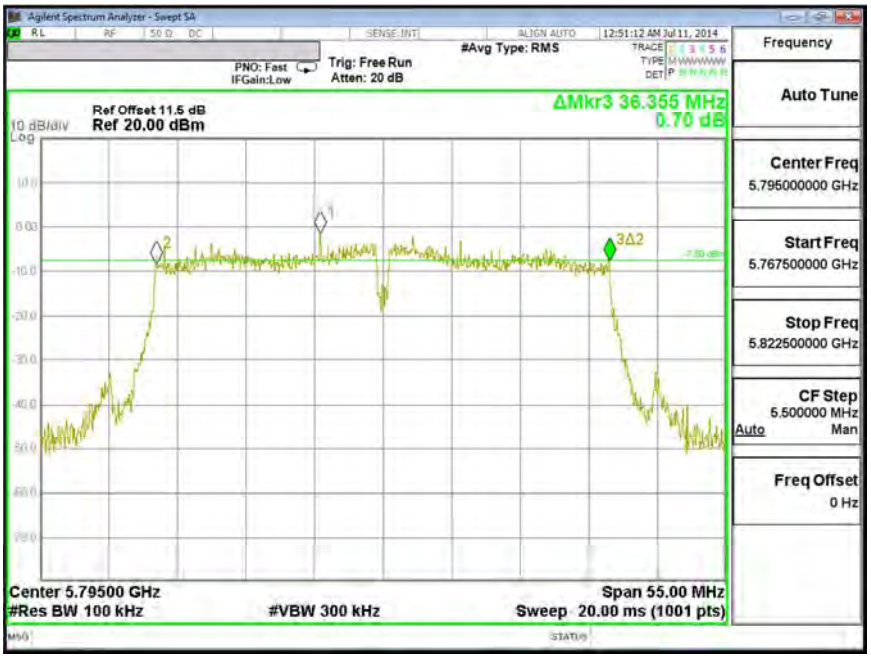


6 dB BANDWIDTH, Chain 1

6 dB BANDWIDTH Chain 1 LOW CH



6 dB BANDWIDTH Chain 1 HIGH CH



9.20.2. 26 dB BANDWIDTH

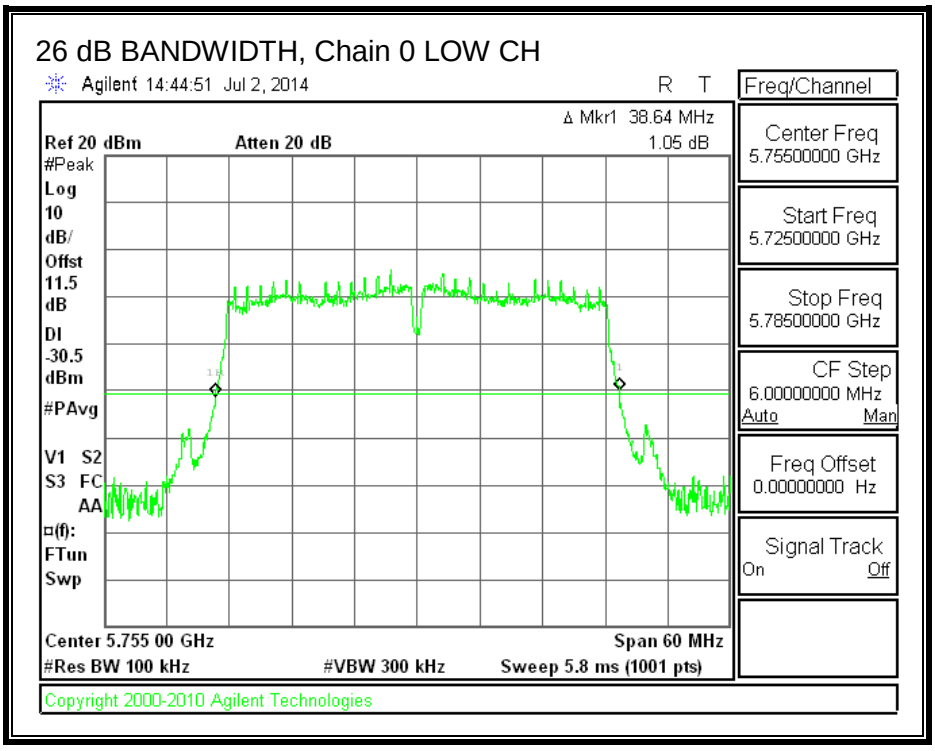
LIMITS

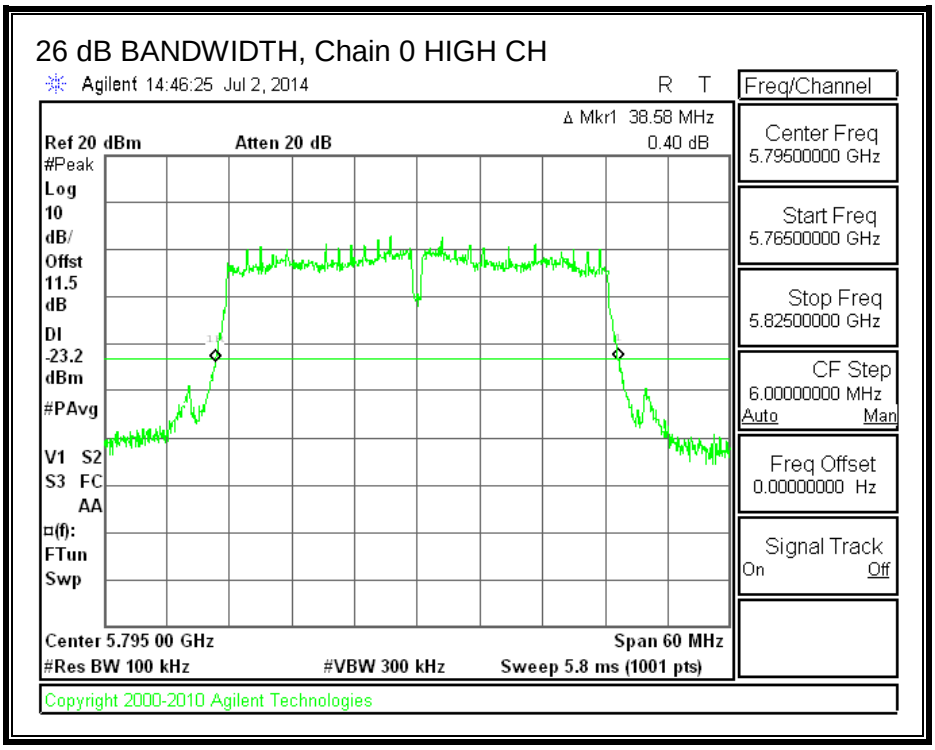
None; for reporting purposes only.

RESULTS

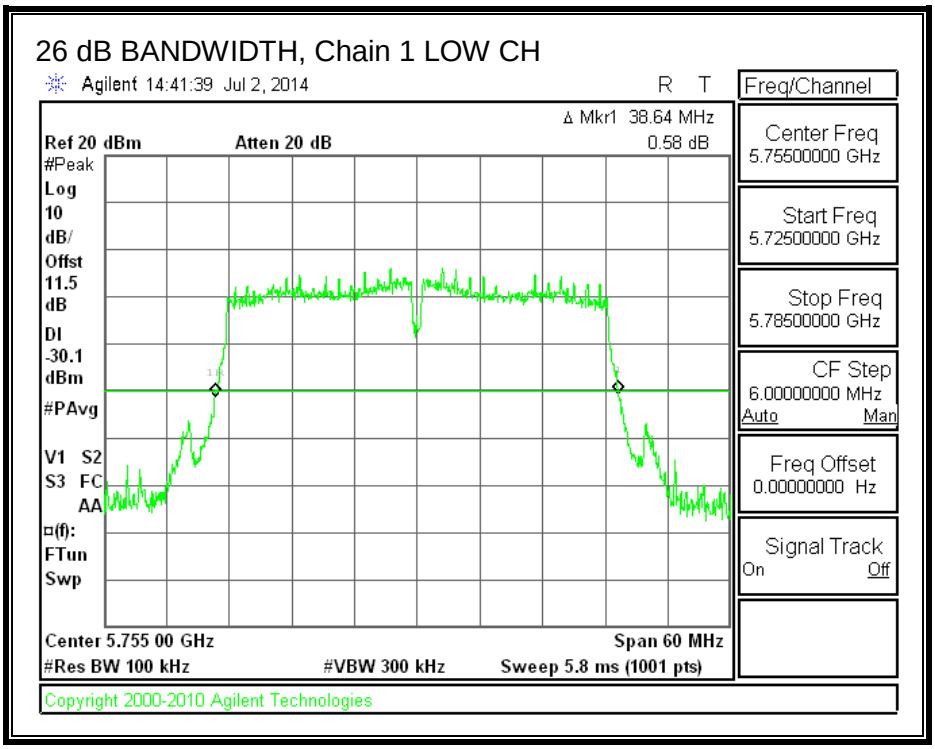
Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5755	38.6	38.6
High	5795	38.6	38.5

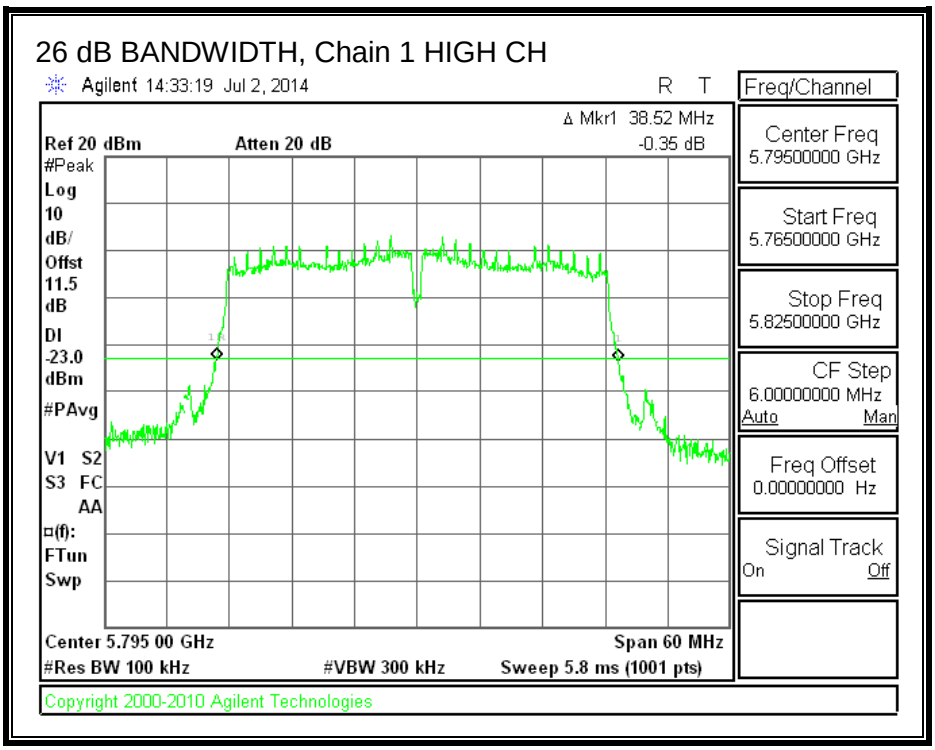
26 dB BANDWIDTH, Chain 0





26 dB BANDWIDTH, Chain 1





9.20.3. 99% BANDWIDTH

LIMITS

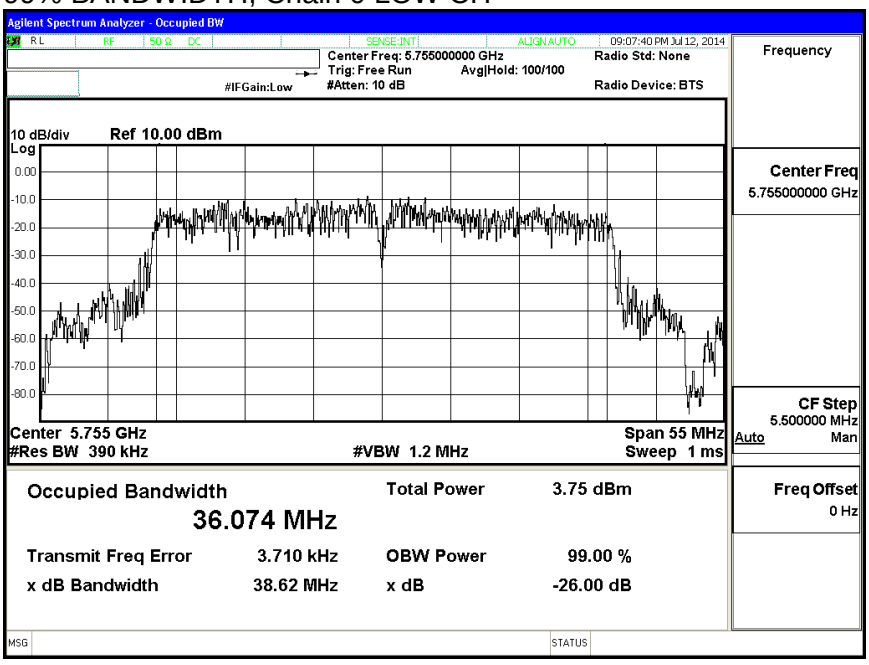
None; for reporting purposes only.

RESULTS

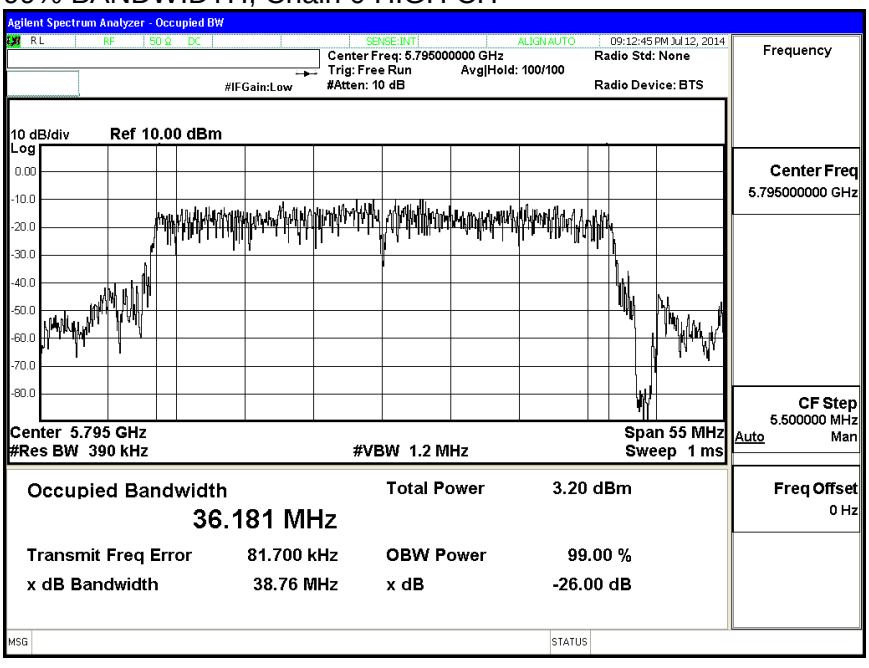
Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5755	36.07	36.29
High	5795	36.18	36.19

99% BANDWIDTH, Chain 0

99% BANDWIDTH, Chain 0 LOW CH

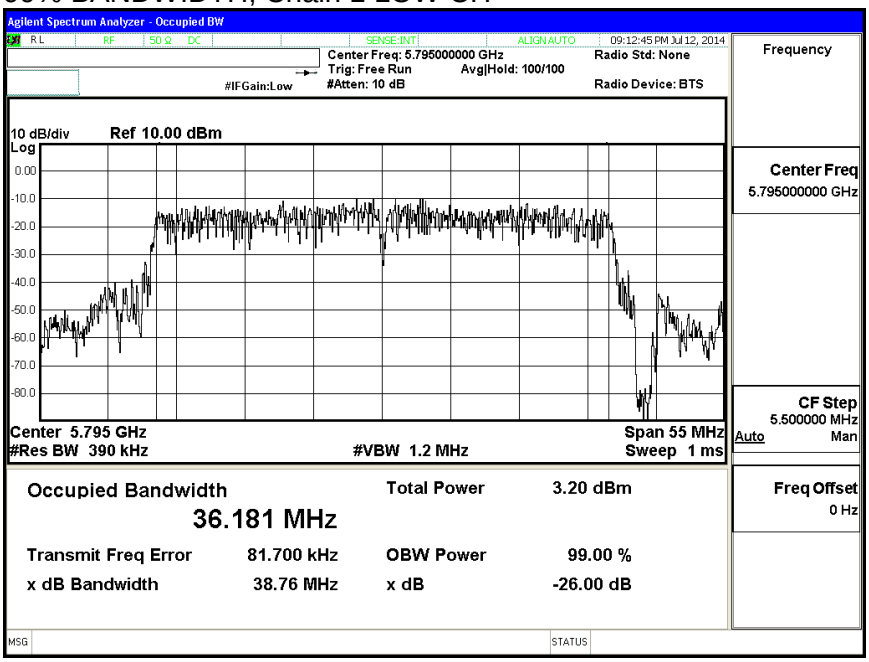


99% BANDWIDTH, Chain 0 HIGH CH

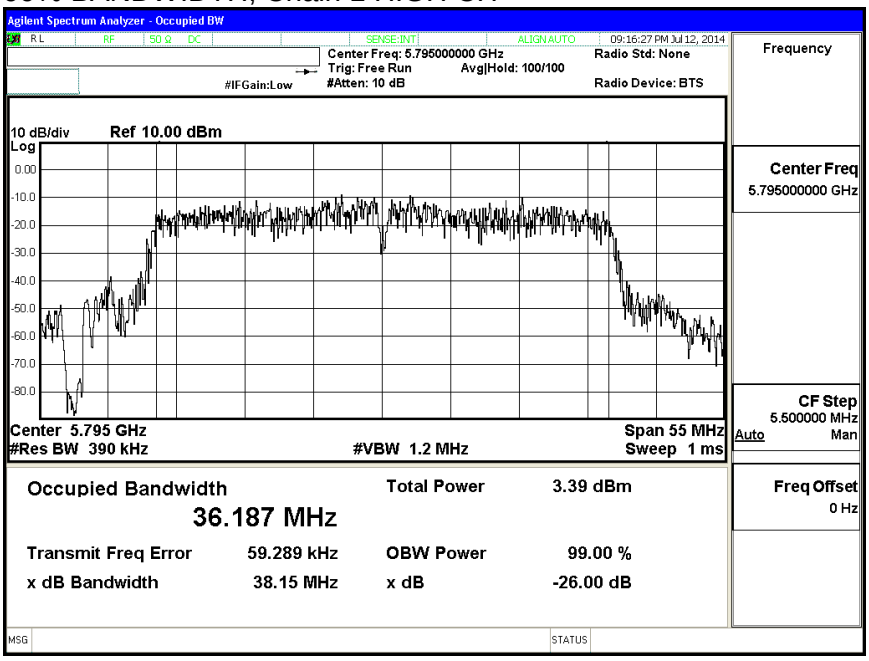


99% BANDWIDTH, Chain 1

99% BANDWIDTH, Chain 1 LOW CH



99% BANDWIDTH, Chain 1 HIGH CH



9.20.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter. The power meter was setup for a gated power measurement.

The cable assembly insertion loss of 11.5 dB (including 10 dB pad and 1.5 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
Low	5755	8.88	8.92	11.91
High	5795	15.42	15.32	18.38

9.20.5. 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

The transmitter output is connected to a power meter. The power meter was setup for a gated power measurement.

The cable assembly insertion loss of 11.5 dB (including 10 dB pad and 1.5 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

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)	Uncorrelated Chains Directional Gain (dBi)
2.68	3.76	3.25

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)	Correlated Chains Directional Gain (dBi)
2.68	3.76	6.25

RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Low	5755	6.25	29.75
High	5795	6.25	29.75

Duty Cycle CF (dB)	0.13	Included in Calculations of Corr'd Power

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	8.88	8.92	12.04	29.75	-17.71
High	5795	15.42	15.32	18.51	29.75	-11.24

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

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
2.68	3.76	3.25

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)	Correlated Chains Directional Gain (dBi)
2.68	3.76	6.25

RESULTS

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	PSD Limit (dBm)
Low	5755	6.25	29.75
High	5795	6.25	29.75

Duty Cycle CF (dB)	0.13	Included in Calculations of Corr'd PSD

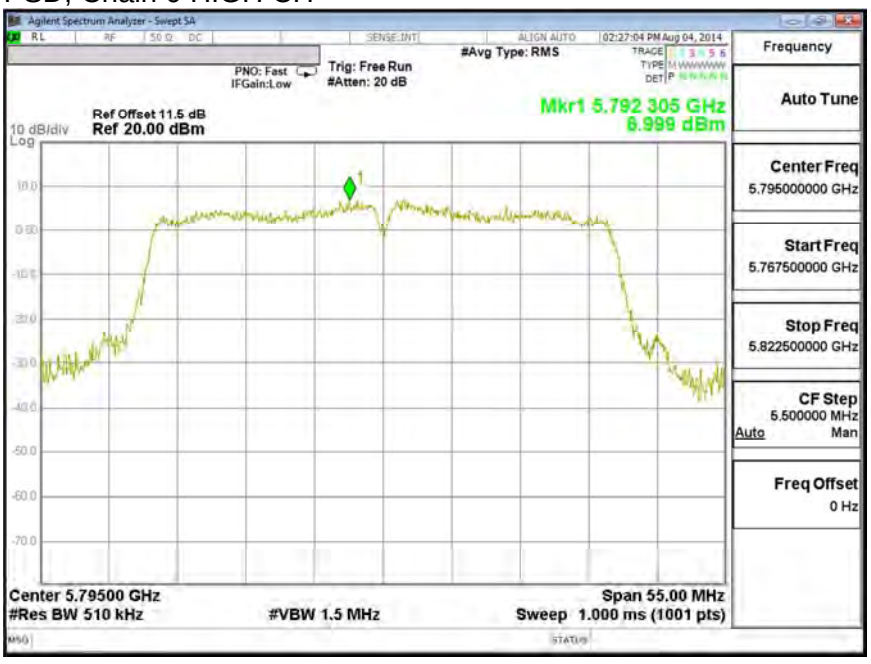
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5755	2.03	1.94	5.13	29.75	-24.62
High	5795	7.00	7.24	10.26	29.75	-19.49

PSD, Chain 0

PSD, Chain 0 LOW CH

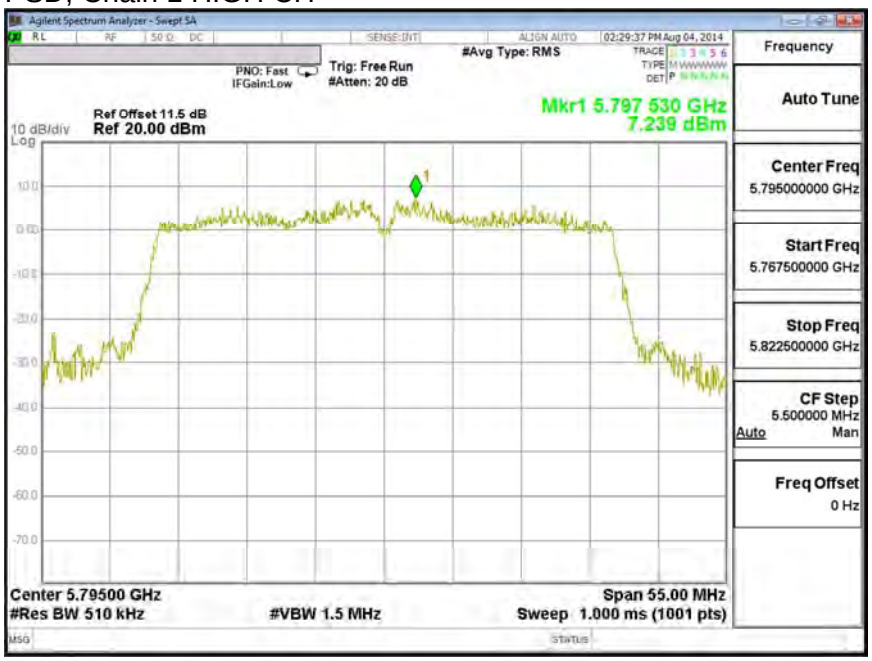
PSD, Chain 0 HIGH CH



PSD, Chain 1

PSD, Chain 1 LOW CH

PSD, Chain 1 HIGH CH



10. RADIATED TEST RESULTS

10.1. 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 1 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.

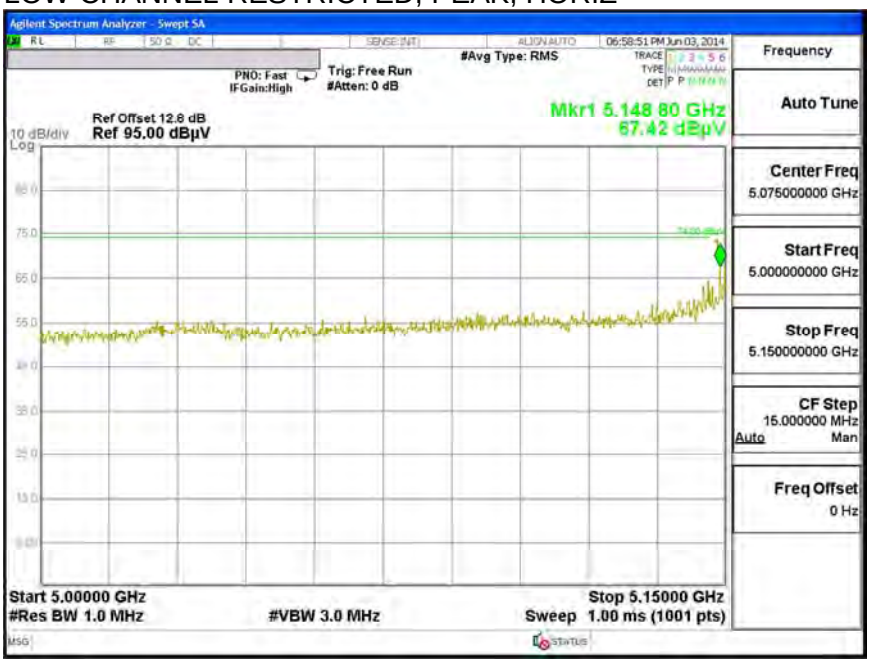
1TX mode indicates that only one antenna is transmitting. 2TX mode indicates that two antennas are transmitting simultaneously.

10.2. TRANSMITTER ABOVE 1 GHz

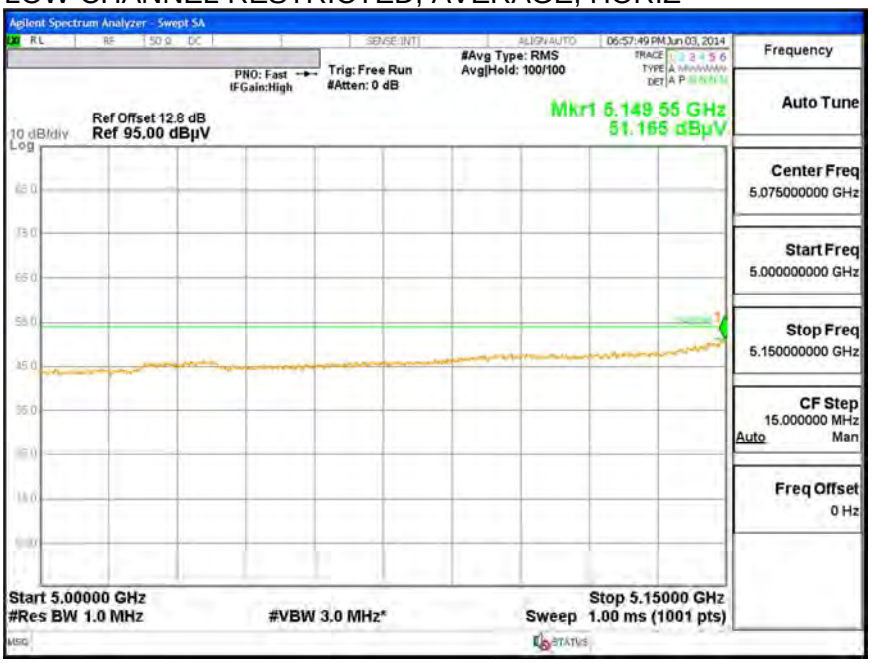
10.2.1. TX ABOVE 1 GHz 802.11a 1Tx MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

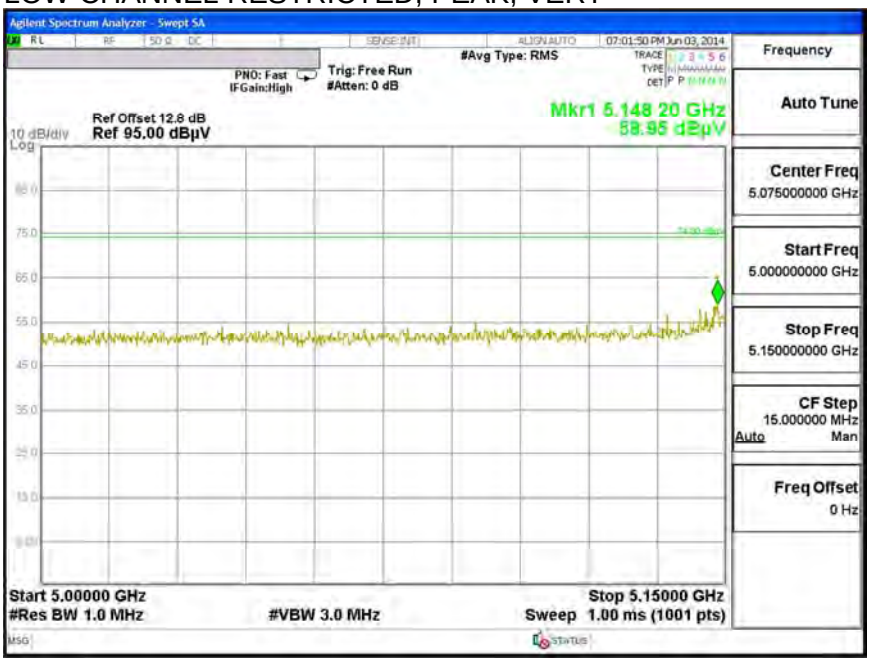
LOW CHANNEL RESTRICTED, PEAK, HORIZ



LOW CHANNEL RESTRICTED, AVERAGE, HORIZ



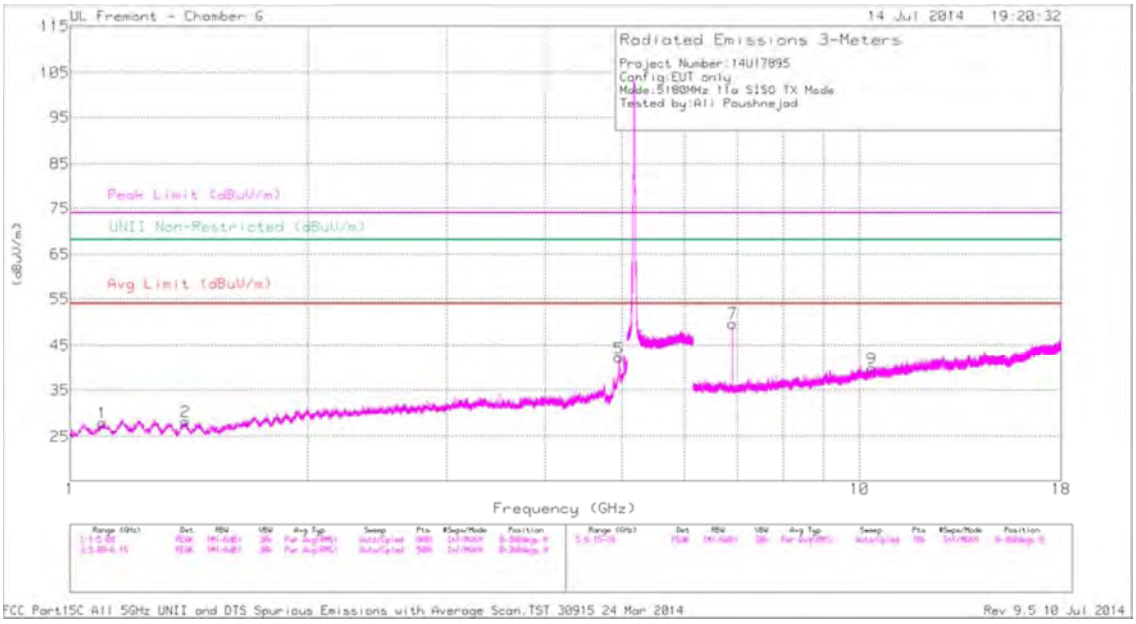
LOW CHANNEL RESTRICTED, PEAK, VERT



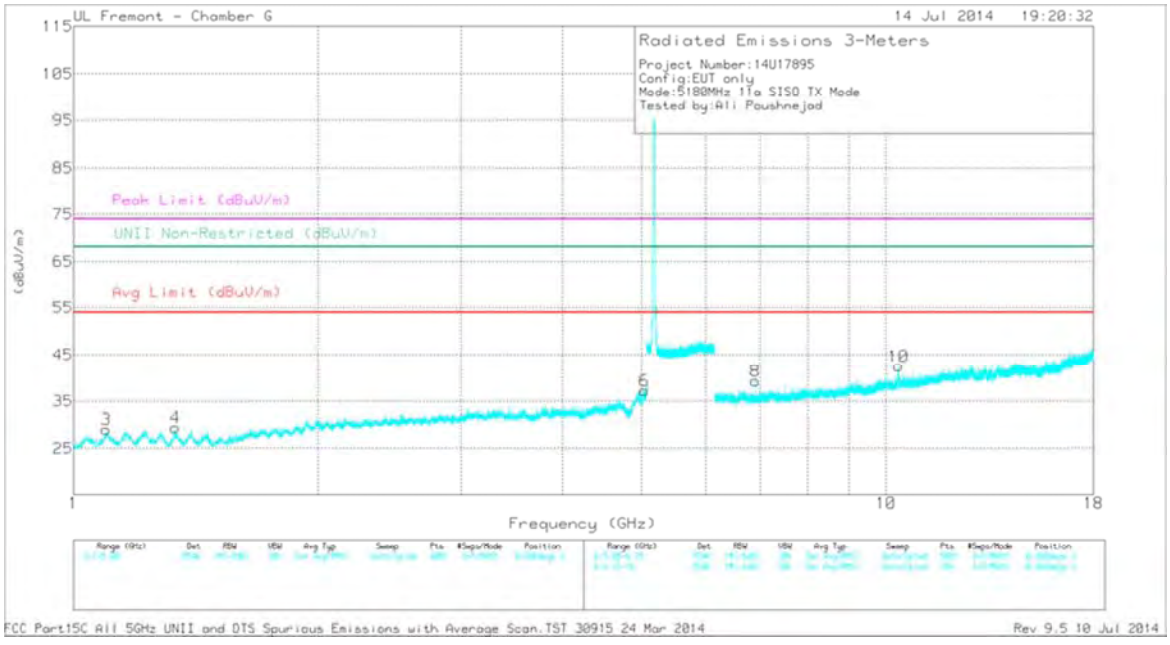
LOW CHANNEL RESTRICTED, AVERAGE, VERT

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



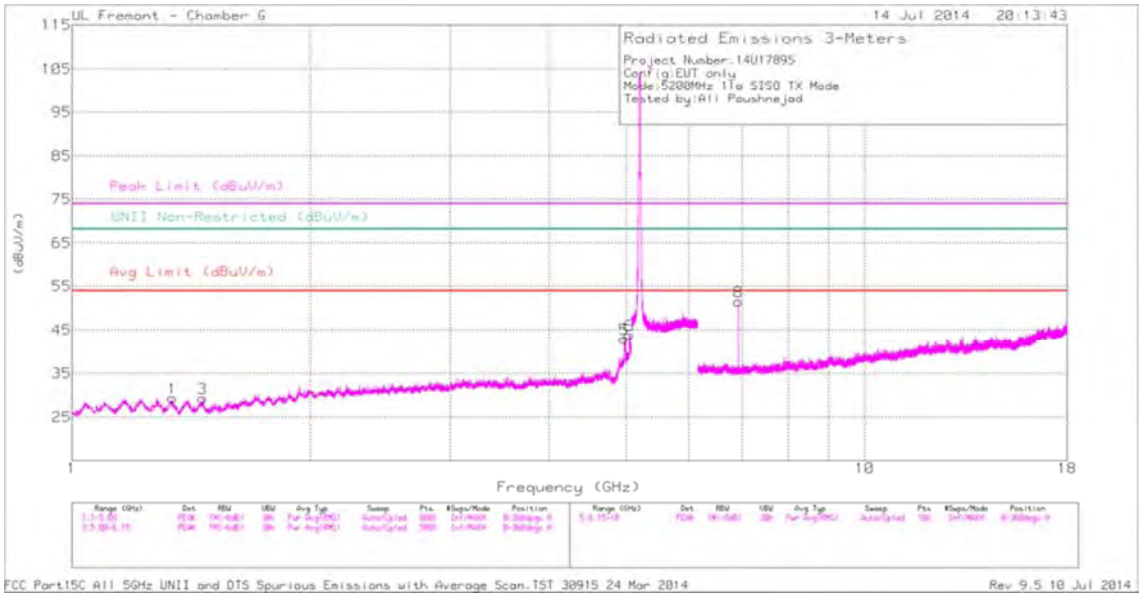
DATA

Trace Markers

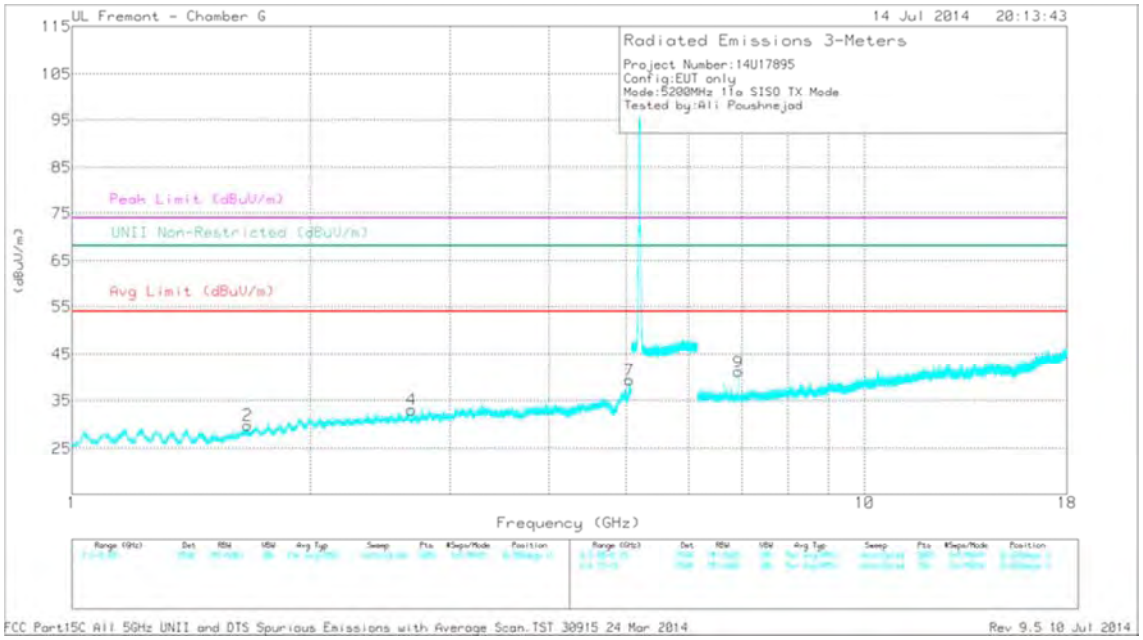
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 1.096	38.77	PK1	28.5	-35.7	31.57	-	-	74	-42.43	-	-	300	277	H
	* 1.1	32.08	AD1	28.5	-35.6	24.98	54	-29.02	-	-	-	-	300	277	H
1	* 1.398	43.04	PK1	28.4	-34.9	36.54	-	-	74	-37.46	-	-	79	107	H
	* 1.398	31.55	AD1	28.4	-35	24.95	54	-29.05	-	-	-	-	79	107	H
4	* 4.96	44.06	PK1	34.1	-31.8	46.36	-	-	74	-27.64	-	-	81	222	H
	* 4.96	36.97	AD1	34.1	-31.8	39.27	54	-14.73	-	-	-	-	81	222	H
2	* 1.096	43.49	PK1	28.5	-35.7	36.29	-	-	74	-37.71	-	-	48	181	V
	* 1.1	32.23	AD1	28.5	-35.7	25.03	54	-28.97	-	-	-	-	48	181	V
5	* 1.333	38.73	PK1	28.8	-35.7	31.83	-	-	74	-42.17	-	-	287	381	V
	* 1.333	32.01	AD1	28.8	-35.7	25.11	54	-28.89	-	-	-	-	287	381	V
6	* 5.038	39.39	PK1	34.2	-31.7	41.89	-	-	74	-32.11	-	-	42	169	V
	* 5.036	32.36	AD1	34.2	-31.8	34.76	54	-19.24	-	-	-	-	42	169	V
10	10.358	32.7	PK	37.5	-27.6	42.6	-	-	-	-	68.2	-25.6	0-360	201	V
9	10.364	29.76	PK	37.5	-27.4	39.86	-	-	-	-	68.2	-28.34	0-360	201	H
7	6.906	45.89	PK	35.6	-31.8	49.69	-	-	-	-	68.2	-18.51	0-360	201	H
8	6.906	35.54	PK	35.6	-31.8	39.34	-	-	-	-	68.2	-28.86	0-360	101	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT

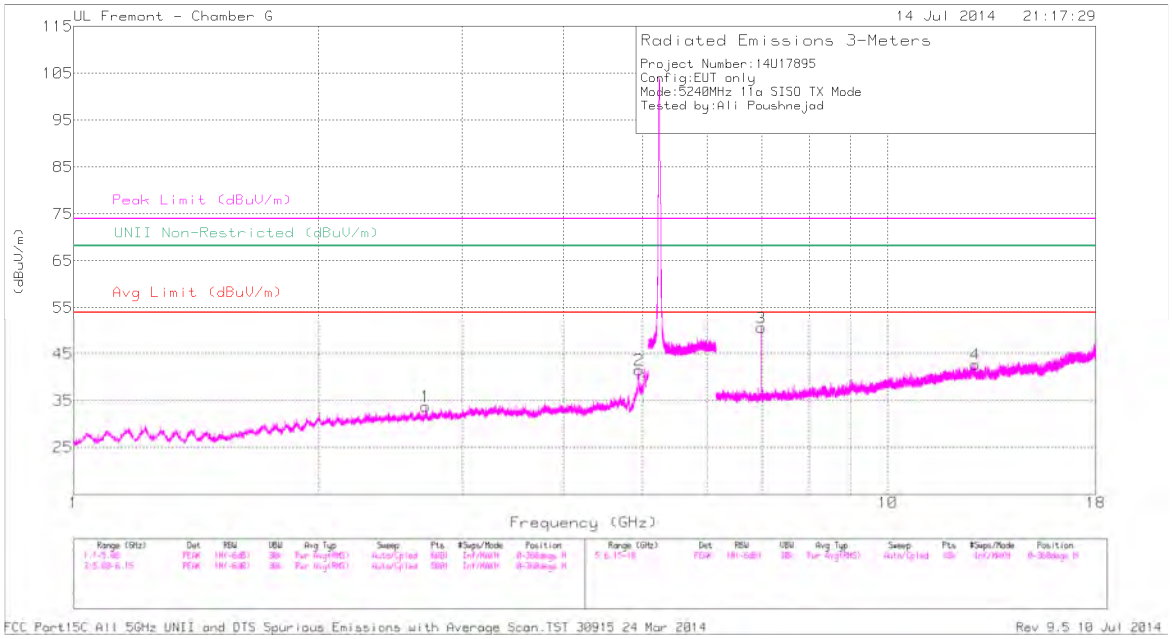


DATA

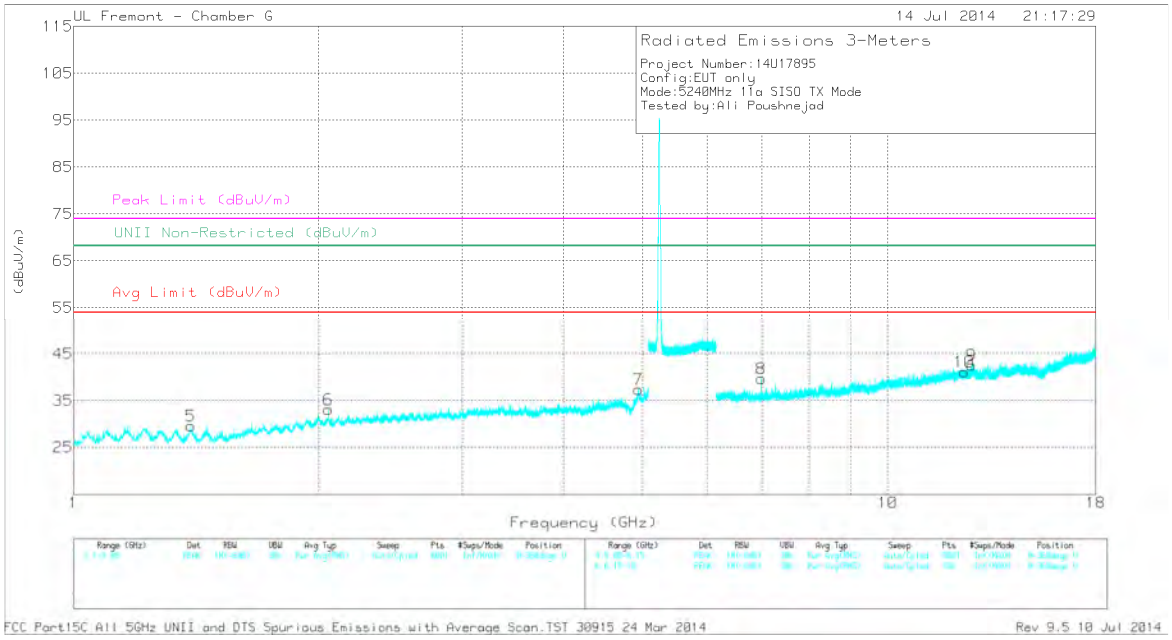
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.335	38.8	PK1	28.8	-35.7	31.9	-	-	74	-42.1	-	-	172	315	H
	* 1.335	32.04	AD1	28.8	-35.7	25.14	54	-28.86	-	-	-	-	172	315	H
3	* 1.457	38.32	PK1	28.1	-34.9	31.52	-	-	74	-42.48	-	-	178	370	H
	* 1.457	31.73	AD1	28.1	-34.9	24.93	54	-29.07	-	-	-	-	178	370	H
2	* 4.976	39.39	PK1	34.1	-31.9	41.59	-	-	74	-32.41	-	-	80	267	H
	* 4.98	32.4	AD1	34.1	-31.8	34.7	54	-19.3	-	-	-	-	80	267	H
4	* 5.043	44.44	PK1	34.2	-31.6	47.04	-	-	74	-26.96	-	-	53	108	H
	* 5.046	37.57	AD1	34.2	-31.5	40.27	54	-13.73	-	-	-	-	53	108	H
5	* 1.665	37.75	PK1	29	-34.6	32.15	-	-	74	-41.85	-	-	317	396	V
	* 1.661	31.03	AD1	29	-34.5	25.53	54	-28.47	-	-	-	-	317	396	V
6	* 2.683	37.5	PK1	32.1	-34.5	35.1	-	-	74	-38.9	-	-	58	208	V
	* 2.676	30.71	AD1	32.1	-34.5	28.31	54	-25.69	-	-	-	-	58	208	V
7	* 5.044	39.75	PK1	34.2	-31.5	42.45	-	-	74	-31.55	-	-	35	202	V
	* 5.046	32.85	AD1	34.2	-31.5	35.55	54	-18.45	-	-	-	-	35	202	V
8	6.933	47.81	PK	35.6	-31.9	51.51	-	-	-	-	68.2	-16.69	0-360	201	H
9	6.933	37.46	PK	35.6	-31.9	41.16	-	-	-	-	68.2	-27.04	0-360	201	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

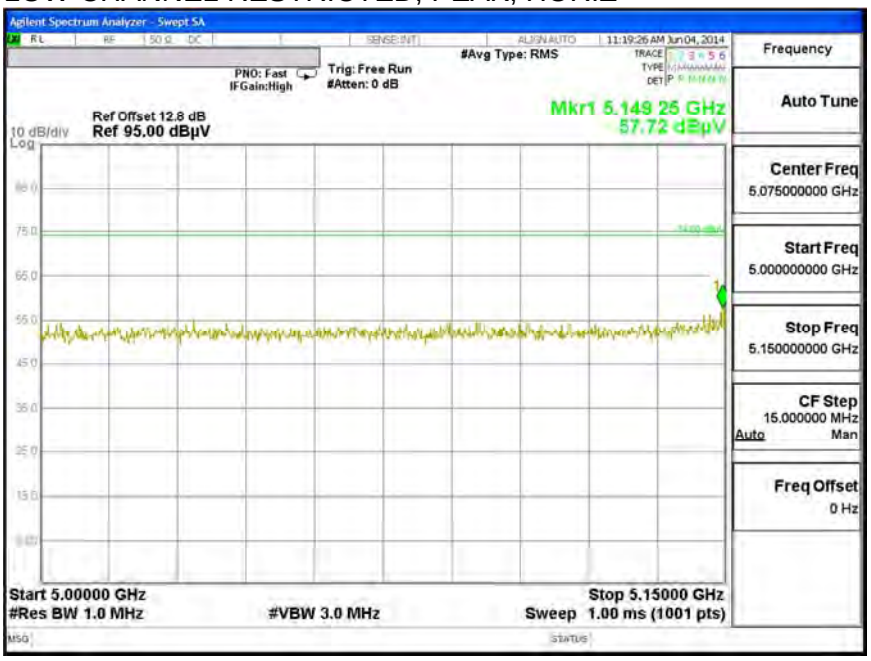
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.703	43.49	PK1	32.2	-34.6	41.09	-	-	74	-32.91	-	-	127	334	H
	* 2.71	31.1	AD1	32.2	-34.7	28.6	54	-25.4	-	-	-	-	127	334	H
2	* 4.941	26.7	PK1	34.1	-31.7	29.1	-	-	74	-44.9	-	-	91	246	H
	* 4.948	19.63	AD1	34.1	-31.8	21.93	54	-32.07	-	-	-	-	91	246	H
5	* 1.393	43.58	PK1	28.5	-35.1	36.98	-	-	74	-37.02	-	-	174	118	V
	* 1.394	32.04	AD1	28.5	-35.1	25.44	54	-28.56	-	-	-	-	174	118	V
7	* 4.943	43.27	PK1	34.1	-31.7	45.67	-	-	74	-28.33	-	-	349	200	V
	* 4.938	31.7	AD1	34.1	-31.7	34.1	54	-19.9	-	-	-	-	349	200	V
9	* 12.665	36.95	PK1	39.1	-26.2	49.85	-	-	74	-24.15	-	-	185	191	H
	* 12.662	25.59	AD1	39.1	-26.2	38.49	54	-15.51	-	-	-	-	185	191	H
10	* 12.417	36.8	PK1	38.9	-26.9	48.8	-	-	74	-25.2	-	-	281	293	H
	* 12.423	25.6	AD1	38.9	-26.8	37.7	54	-16.3	-	-	-	-	281	293	H
6	2.055	36.71	PK	31.3	-34.9	33.11	-	-	-	-	68.2	-35.09	0-360	201	V
3	6.987	46.74	PK	35.6	-31.7	50.64	-	-	-	-	68.2	-17.56	0-360	201	H
8	6.987	35.86	PK	35.6	-31.7	39.76	-	-	-	-	68.2	-28.44	0-360	101	V
4	12.806	29.66	PK	39.1	-26	42.76	-	-	-	-	68.2	-25.44	0-360	101	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

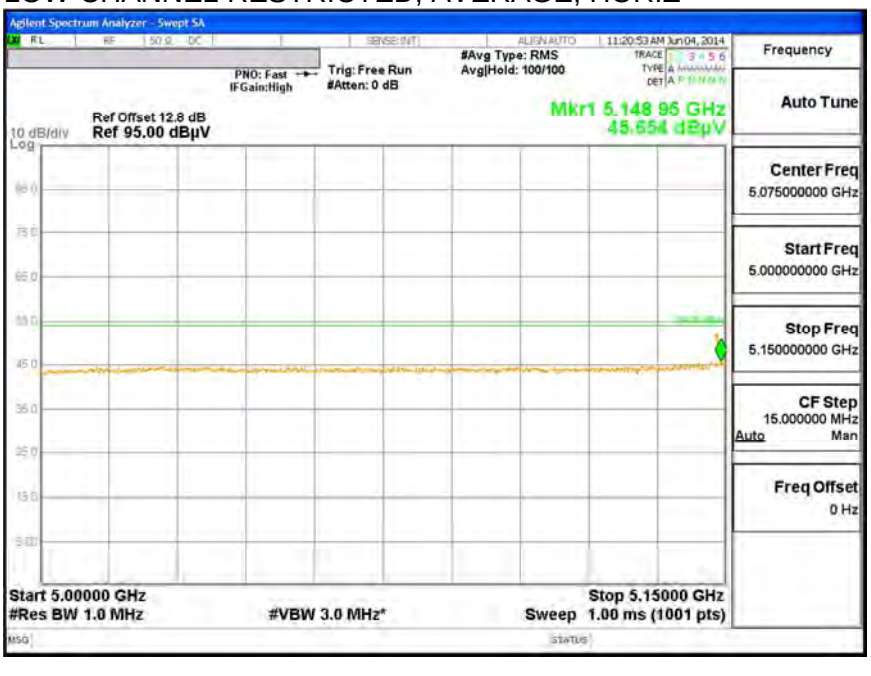
10.2.2. TX ABOVE 1 GHz 802.11n HT20 2Tx CDD MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

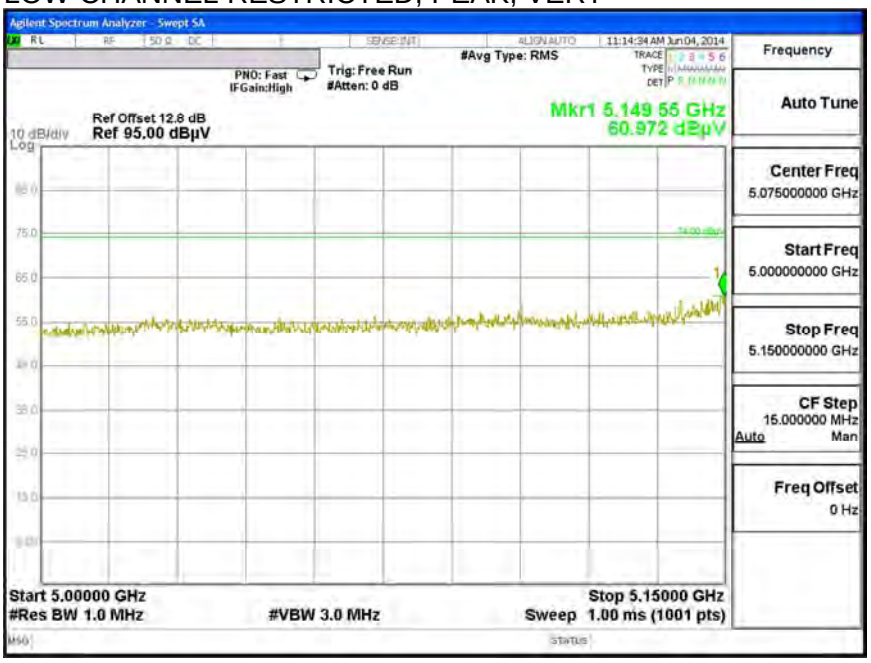
LOW CHANNEL RESTRICTED, PEAK, HORIZ



LOW CHANNEL RESTRICTED, AVERAGE, HORIZ



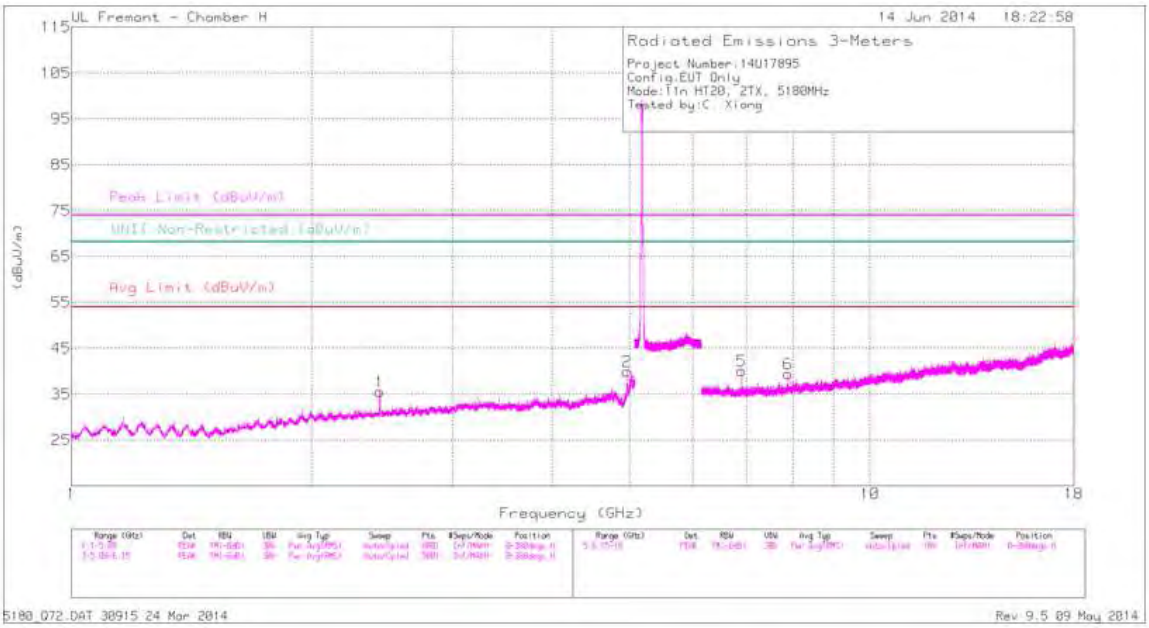
LOW CHANNEL RESTRICTED, PEAK, VERT



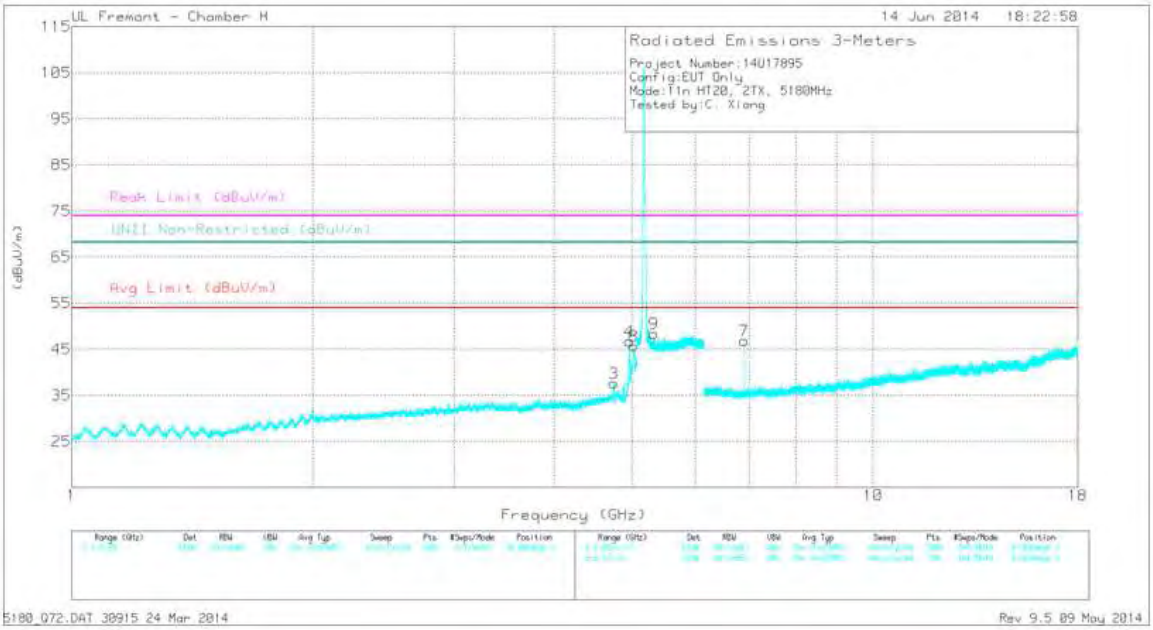
LOW CHANNEL RESTRICTED, AVERAGE, VERT

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT

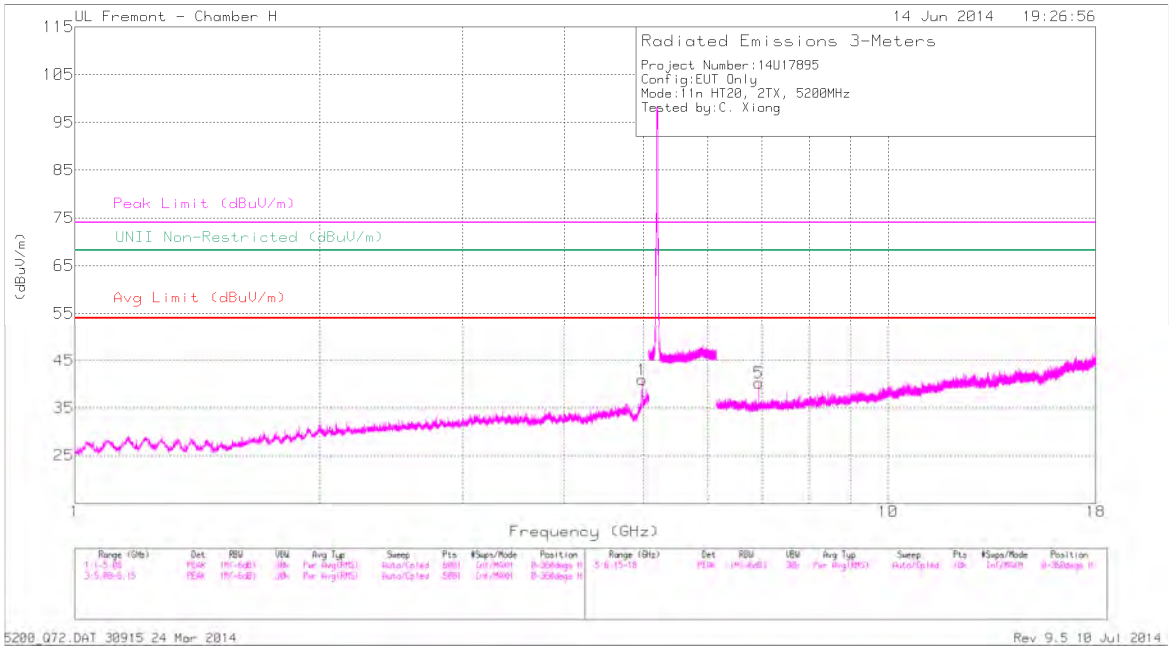


DATA

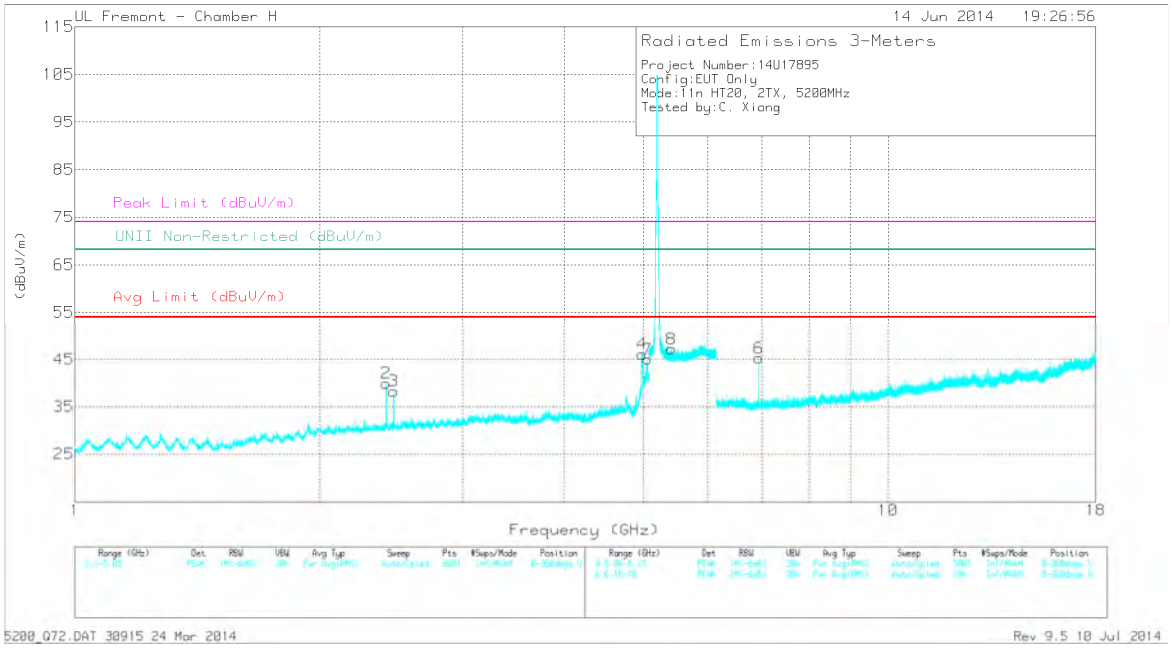
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.964	46.31	PK1	34.1	-31.8	48.61	-	-	74	-25.39	-	-	231	159	H
	* 4.964	37.03	AD1	34.1	-31.8	39.33	54	-14.67	-	-	-	-	231	159	H
3	* 4.752	44.51	PK1	34.1	-32.8	45.81	-	-	74	-28.19	-	-	213	231	V
	* 4.749	34.4	AD1	34.1	-32.8	35.7	54	-18.3	-	-	-	-	213	231	V
4	* 4.964	51.44	PK1	34.1	-31.8	53.74	-	-	74	-20.26	-	-	213	231	V
	* 4.964	40.62	AD1	34.1	-31.8	42.92	54	-11.08	-	-	-	-	213	231	V
8	* 5.024	51.83	PK1	34.1	-32	53.93	-	-	74	-20.07	-	-	282	212	V
	* 5.027	41.55	AD1	34.1	-32	43.65	54	-10.35	-	-	-	-	282	212	V
1	2.433	53.14	PK1	31.9	-34.6	50.44	-	-	-	-	68.2	-17.76	213	231	H
9	5.326	41.12	PK1	34.6	-23.7	52.02	-	-	-	-	68.2	-16.18	4	217	V
5	6.907	41.21	PK1	35.6	-31.8	45.01	-	-	-	-	68.2	-23.19	252	329	H
7	6.907	46.65	PK1	35.6	-31.8	50.45	-	-	-	-	68.2	-17.75	187	177	V
6	7.908	39.99	PK1	35.8	-30.6	45.19	-	-	-	-	68.2	-23.01	278	201	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT

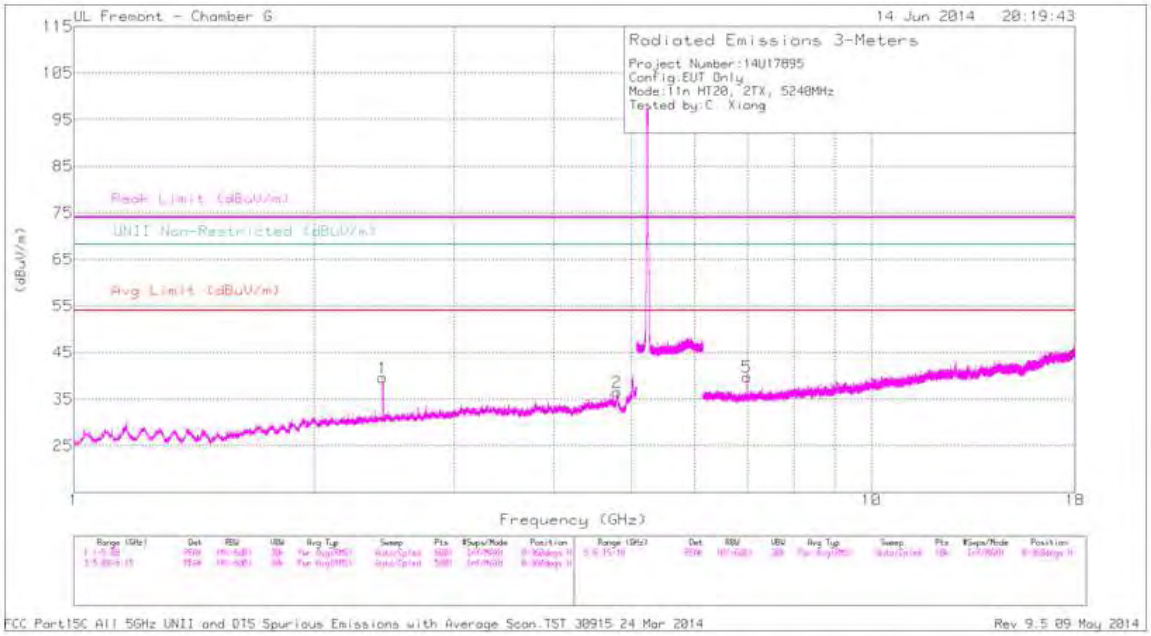


DATA

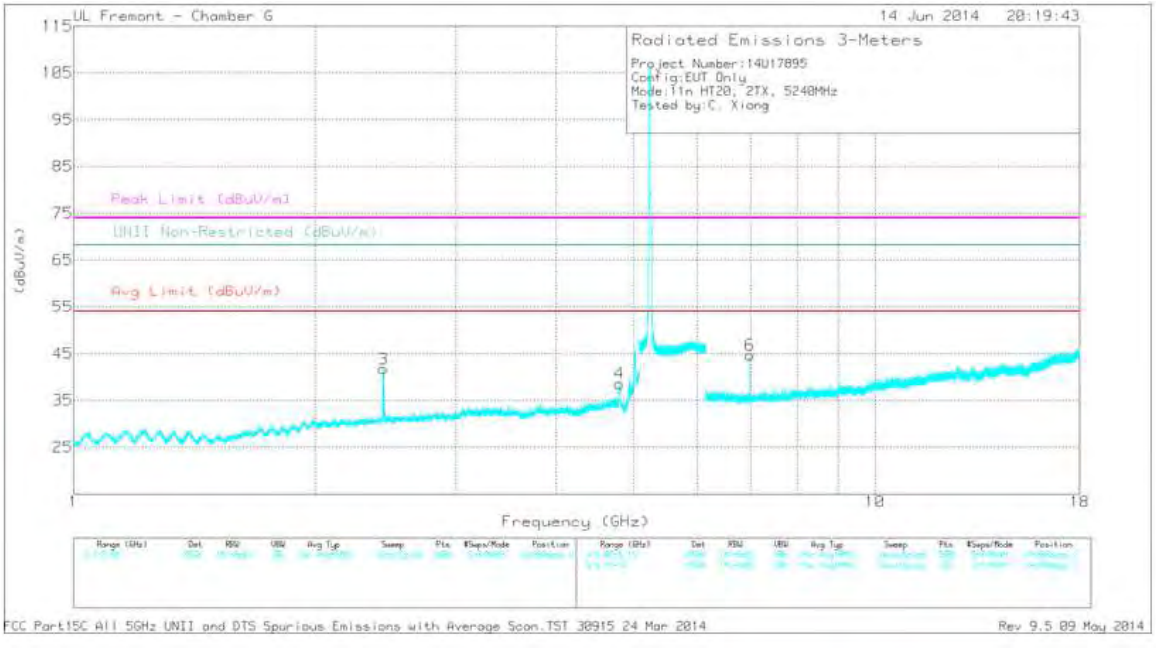
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.984	47.02	PK1	34.1	-31.9	0	49.22	-	-	74	-24.78	-	-	210	291	H
	* 4.983	36.84	AD1	34.1	-31.9	0	39.04	54	-14.96	-	-	-	-	210	291	H
4	* 4.983	52.42	PK1	34.1	-31.9	0	54.62	-	-	74	-19.38	-	-	194	200	V
	* 4.983	42.38	AD1	34.1	-31.9	0	44.58	54	-9.42	-	-	-	-	194	200	V
7	* 5.024	51.83	PK1	34.1	-32	0	53.93	-	-	74	-20.07	-	-	282	212	V
	* 5.027	41.55	AD1	34.1	-32	0	43.65	54	-10.35	-	-	-	-	282	212	V
8	* 5.417	45.77	PK1	34.6	-23.6	0	56.77	-	-	74	-17.23	-	-	264	209	V
	* 5.417	35.3	AD1	34.6	-23.6	0	46.3	54	-7.7	-	-	-	-	264	209	V
2	2.417	42.8	PK1	31.8	-34.4	0	40.2	-	-	-	-	68.2	-28	215	235	V
3	2.468	43.34	PK1	31.9	-34.5	0	40.74	-	-	-	-	68.2	-27.46	226	242	V
5	6.934	43.63	PK1	35.6	-31.9	0	47.33	-	-	-	-	68.2	-20.87	271	358	H
6	6.933	47.52	PK1	35.6	-31.9	0	51.22	-	-	-	-	68.2	-16.98	195	190	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

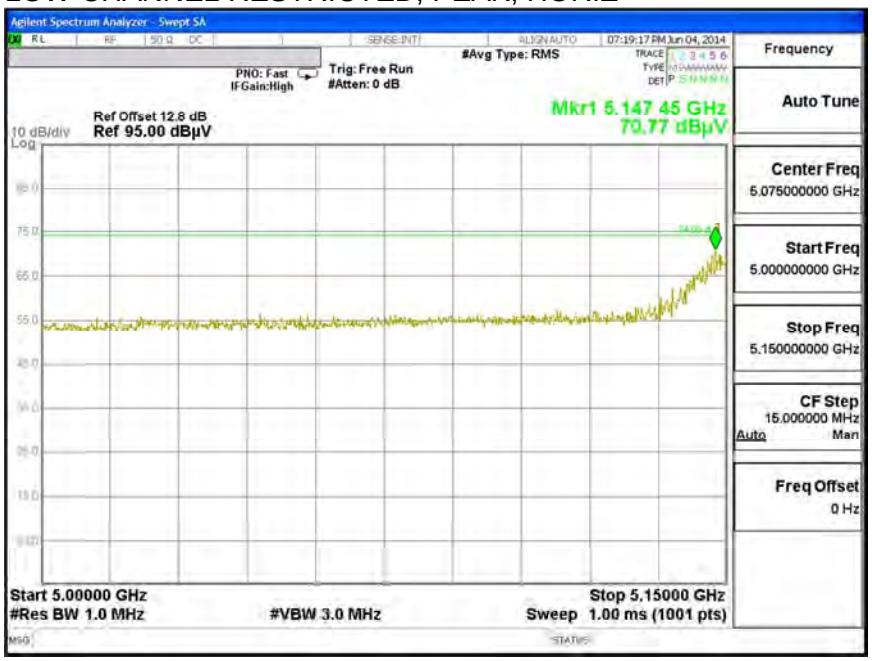
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.801	42.82	PK1	34.1	-32.9	0	44.02	-	-	74	-29.98	-	-	13	348	H
	* 4.799	32.41	AD1	34.1	-32.9	0	33.61	54	-20.39	-	-	-	-	13	348	H
4	* 4.798	44.36	PK1	34.1	-32.9	0	45.56	-	-	74	-28.44	-	-	48	254	V
	* 4.8	34.05	AD1	34.1	-32.9	0	35.25	54	-18.75	-	-	-	-	48	254	V
3	2.432	52.14	PK1	31.9	-34.6	0	49.44	-	-	-	-	68.2	-18.76	204	155	V
1	2.438	48.99	PK1	31.9	-34.5	0	46.39	-	-	-	-	68.2	-21.81	218	185	H
5	6.986	42.91	PK1	35.6	-31.7	0	46.81	-	-	-	-	68.2	-21.39	89	304	H
6	6.987	46.67	PK1	35.6	-31.7	0	50.57	-	-	-	-	68.2	-17.63	18	165	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

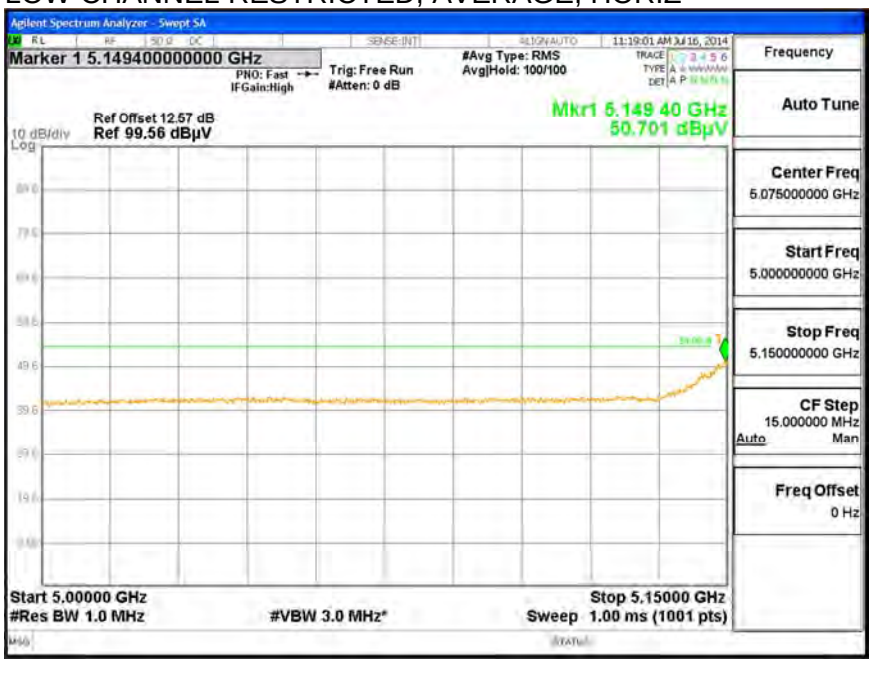
10.2.3. TX ABOVE 1 GHz 802.11n HT40 1Tx MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

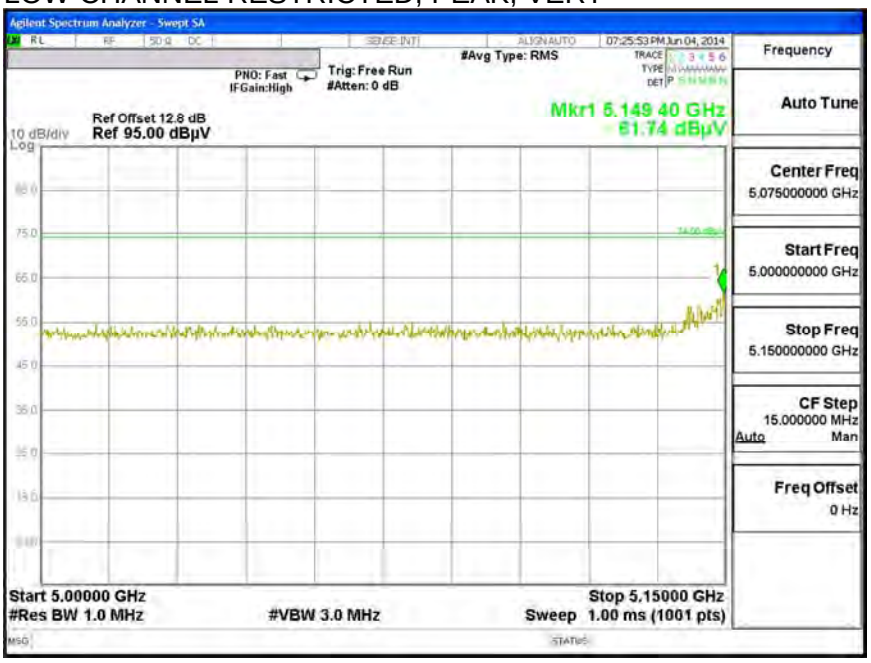
LOW CHANNEL RESTRICTED, PEAK, HORIZ



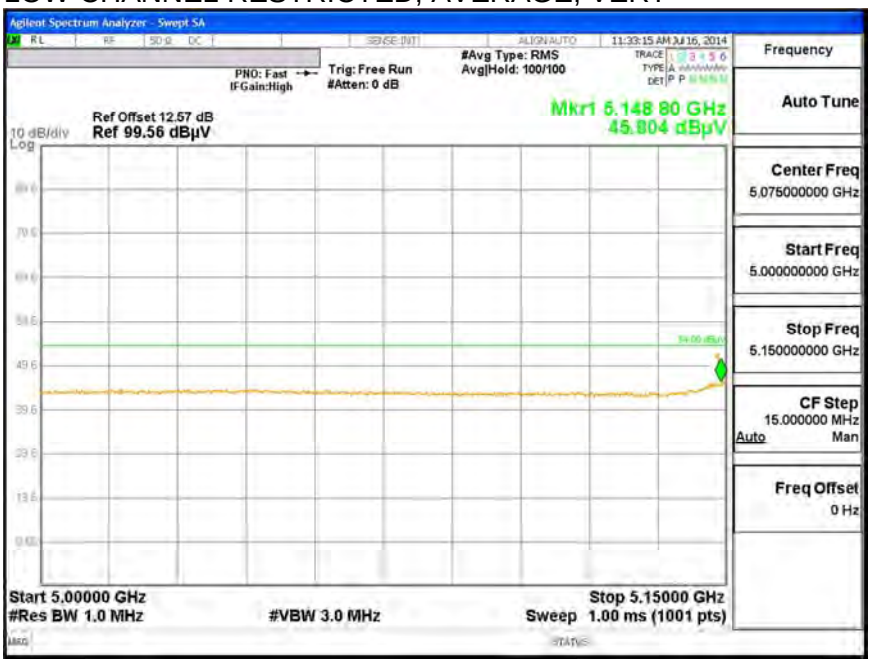
LOW CHANNEL RESTRICTED, AVERAGE, HORIZ



LOW CHANNEL RESTRICTED, PEAK, VERT

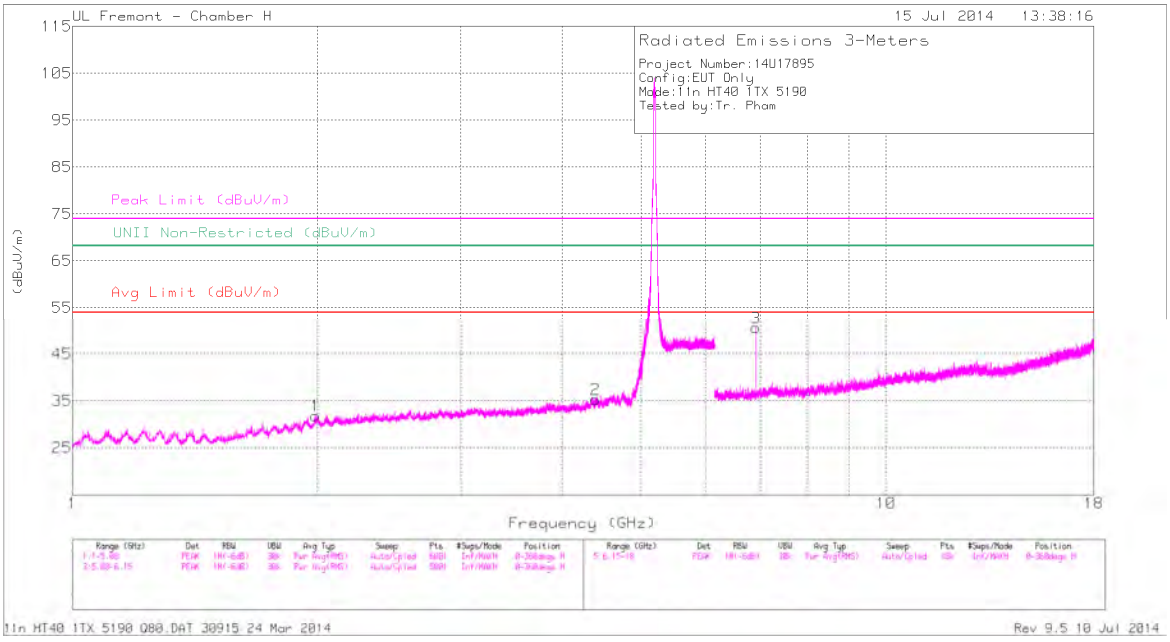


LOW CHANNEL RESTRICTED, AVERAGE, VERT

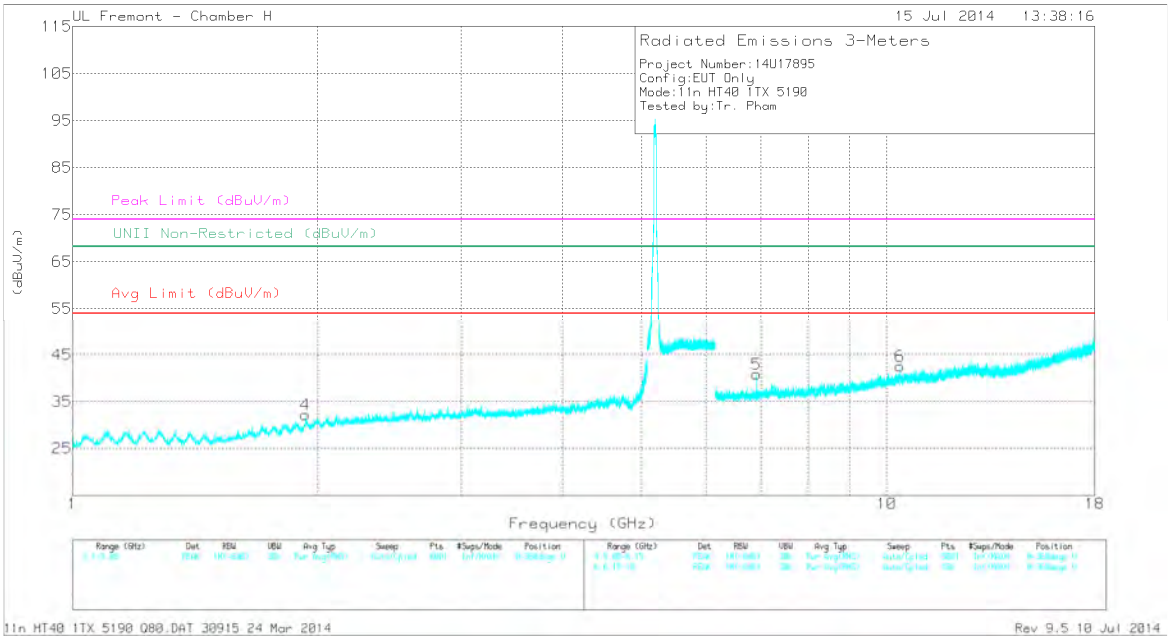


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



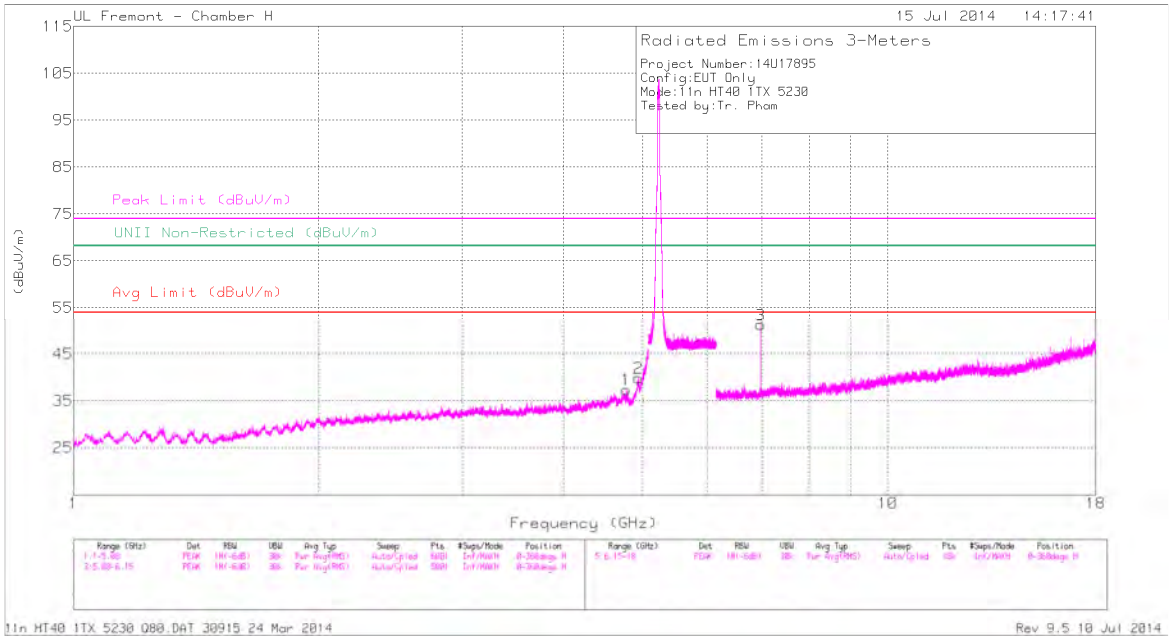
DATA

Trace Markers

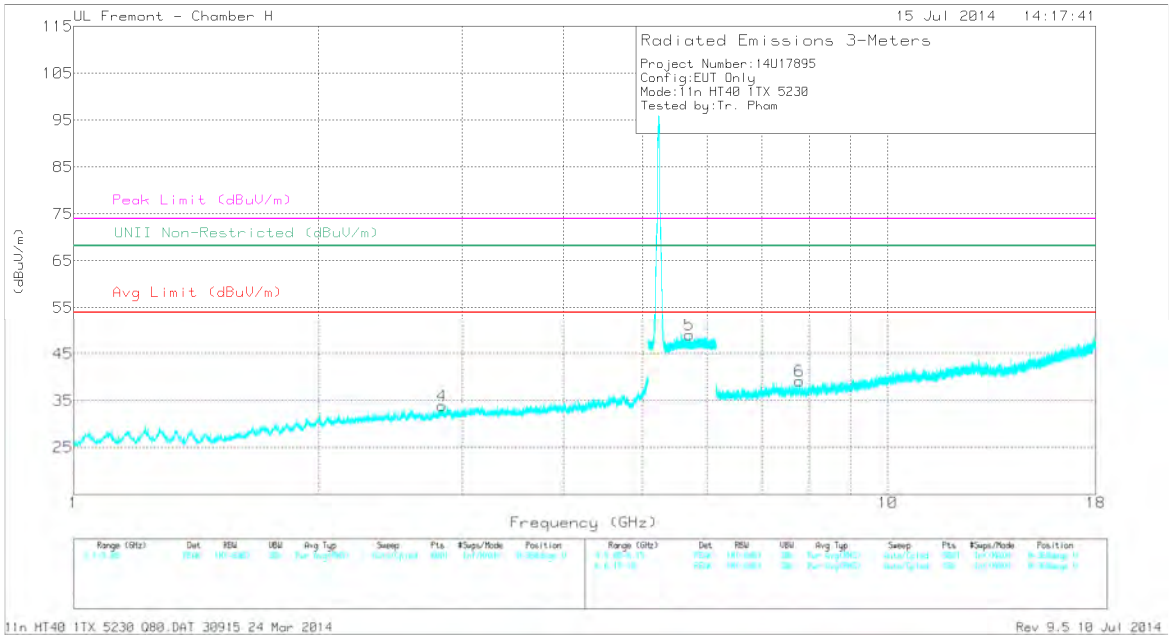
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.397	41.45	PK1	33.8	-31.4	43.85	-	-	74	-30.15	-	-	86	166	H
	* 4.398	29.76	AD1	33.8	-31.4	32.16	54	-21.84	-	-	-	-	86	166	H
4	1.931	43.03	PK1	30.9	-34.6	39.33	-	-	-	-	68.2	-28.87	105	152	V
1	1.99	42.81	PK1	31.2	-34.5	39.51	-	-	-	-	68.2	-28.69	33	134	H
3	6.92	49.35	PK1	35.8	-30.8	54.35	-	-	-	-	68.2	-13.85	302	119	H
5	6.92	43.79	PK1	35.8	-30.8	48.79	-	-	-	-	68.2	-19.41	283	275	V
6	10.378	37.78	PK1	37.5	-25.7	49.58	-	-	-	-	68.2	-18.62	331	229	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

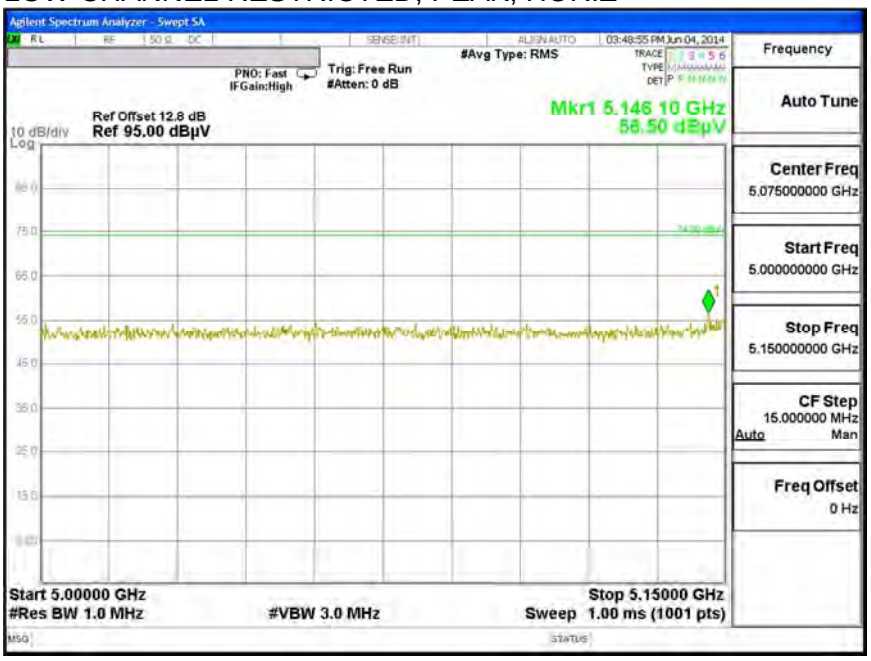
	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.775	43.2	PK1	34.3	-31.8	45.7	-	-	74	-28.3	-	-	305	142	H
	* 4.775	31.59	AD1	34.3	-31.8	34.09	54	-19.91	-	-	-	-	305	142	H
2	* 4.934	44.26	PK1	34.3	-30.9	47.66	-	-	74	-26.34	-	-	298	130	H
	* 4.933	33.39	AD1	34.3	-30.8	36.89	54	-17.11	-	-	-	-	298	130	H
4	* 2.836	42.14	PK1	32.5	-33	41.64	-	-	74	-32.36	-	-	332	118	V
	* 2.835	30.46	AD1	32.5	-33	29.96	54	-24.04	-	-	-	-	332	118	V
5	5.705	43.35	PK1	35	-22.5	55.85	-	-	-	-	68.2	-12.35	290	146	V
3	6.973	49.16	PK1	35.8	-30.1	54.86	-	-	-	-	68.2	-13.34	303	109	H
6	7.793	40.17	PK1	36.1	-28.8	47.47	-	-	-	-	68.2	-20.73	280	144	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

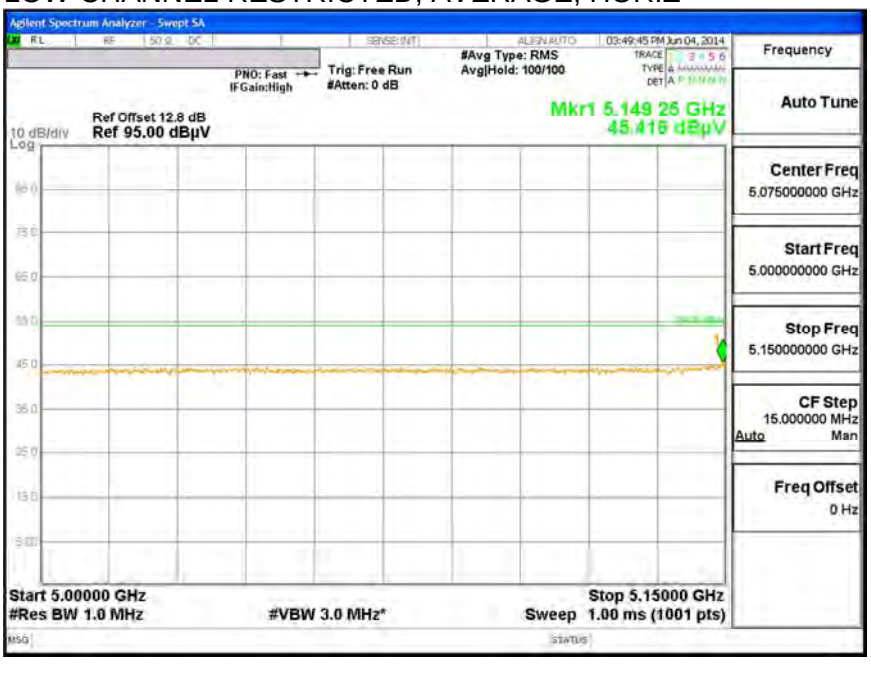
10.2.4. TX ABOVE 1 GHz 802.11n HT40 2Tx CDD MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

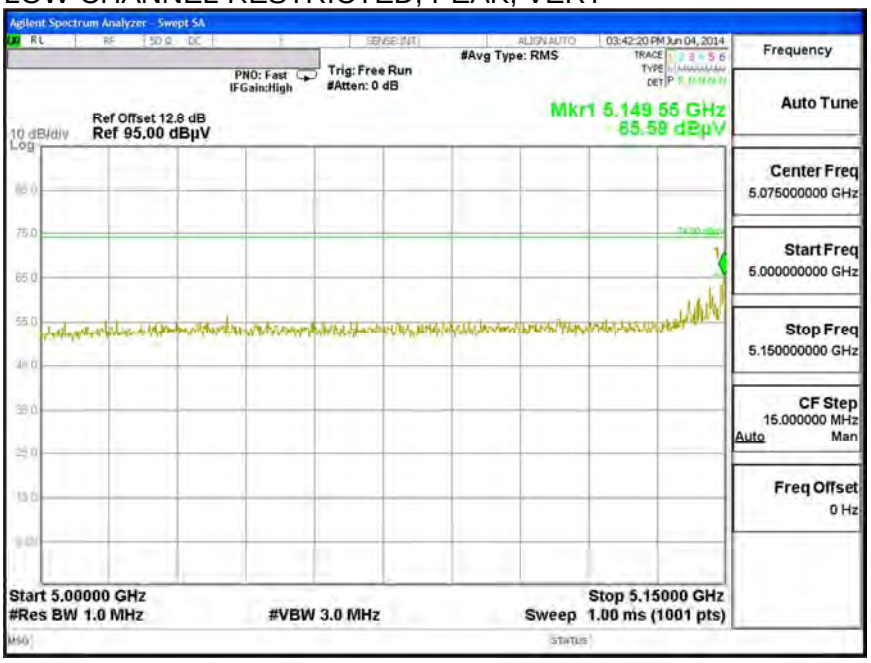
LOW CHANNEL RESTRICTED, PEAK, HORIZ



LOW CHANNEL RESTRICTED, AVERAGE, HORIZ



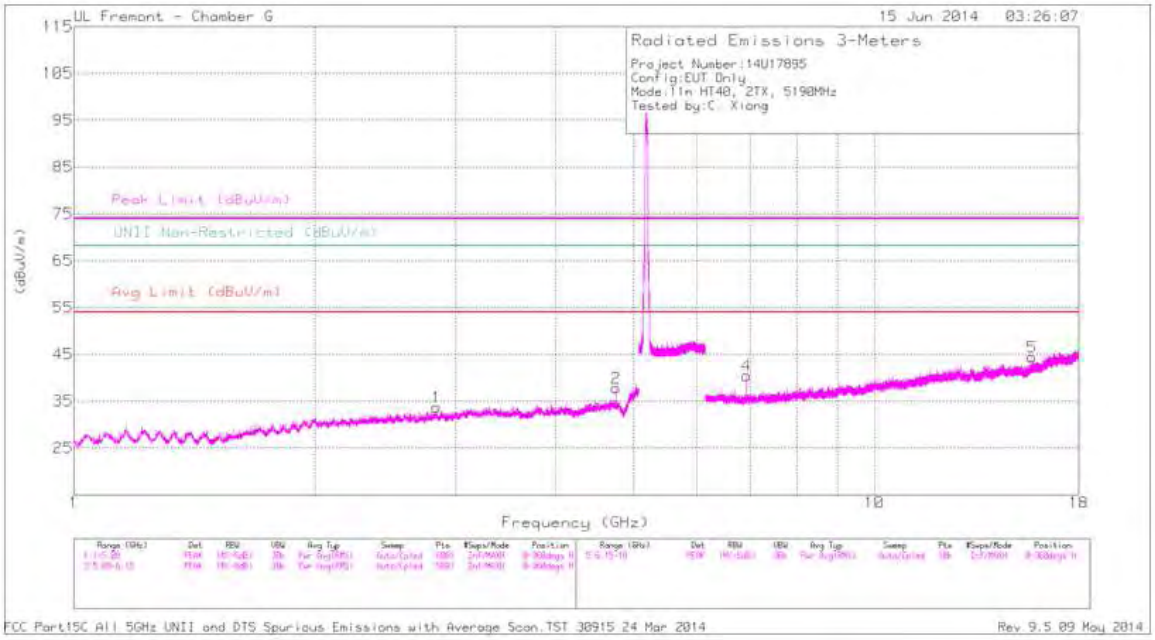
LOW CHANNEL RESTRICTED, PEAK, VERT



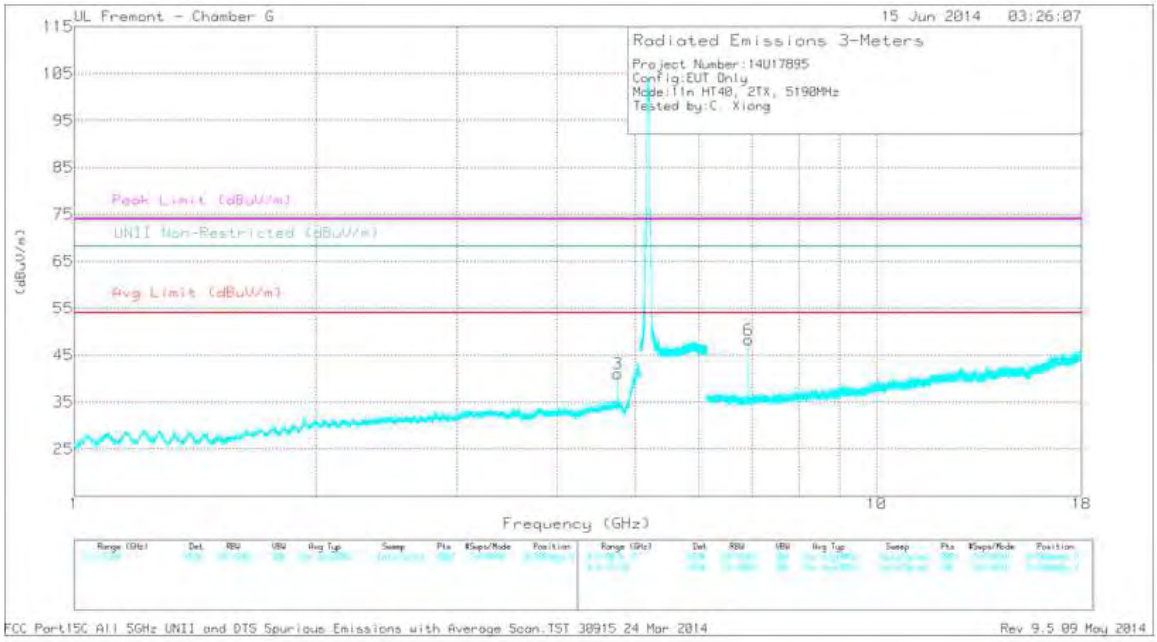
LOW CHANNEL RESTRICTED, AVERAGE, VERT

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



DATA

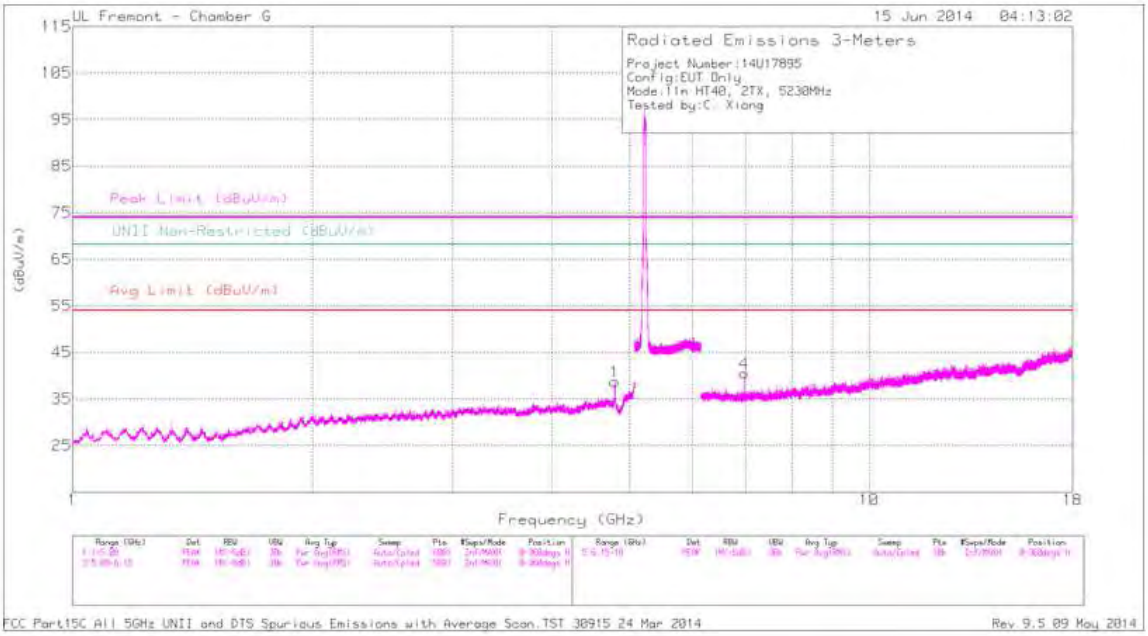
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.837	43.2	PK1	32.3	-33.8	0	41.7	-	-	74	-32.3	-	-	218	105	H
	* 2.83	30.74	AD1	32.3	-33.7	0	29.34	54	-24.66	-	-	-	-	218	105	H
2	* 4.758	43.45	PK1	34.1	-32.8	0	44.75	-	-	74	-29.25	-	-	13	280	H
	* 4.758	36.56	AD1	34.1	-32.8	0	37.86	54	-16.14	-	-	-	-	13	280	H
3	* 4.757	44.32	PK1	34.1	-32.8	0	45.62	-	-	74	-28.38	-	-	35	233	V
	* 4.758	38.27	AD1	34.1	-32.8	0	39.57	54	-14.43	-	-	-	-	35	233	V
5	* 15.748	38.16	PK1	40.2	-27	0	51.36	-	-	74	-22.64	-	-	22	267	H
	* 15.749	26.59	AD1	40.2	-27	0	39.79	54	-14.21	-	-	-	-	22	267	H
4	6.92	44.81	PK1	35.6	-31.9	0	48.51	-	-	-	-	68.2	-19.69	87	287	H
6	6.92	47.41	PK1	35.6	-31.9	0	51.11	-	-	-	-	68.2	-17.09	16	165	V

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

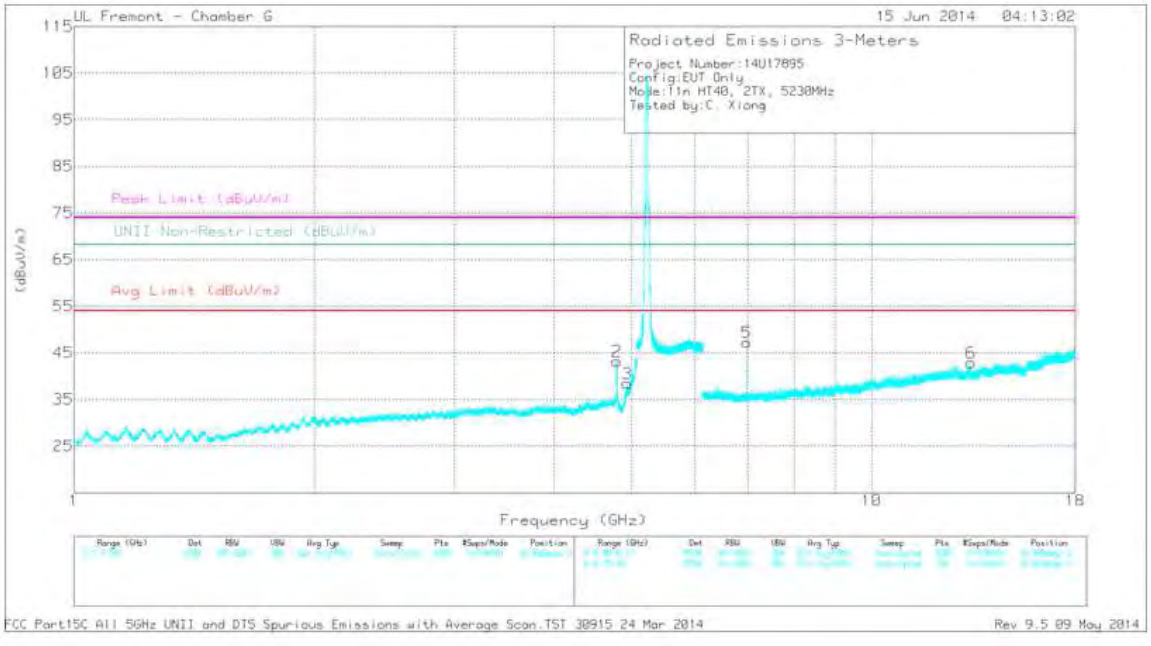
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (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	* 4.794	43.62	PK1	34.1	-32.9	0	44.82	-	-	74	-29.18	-	-	20	274	H
	* 4.794	36.78	AD1	34.1	-32.9	0	37.98	54	-16.02	-	-	-	-	20	274	H
2	* 4.794	45.35	PK1	34.1	-32.9	0	46.55	-	-	74	-27.45	-	-	41	232	V
	* 4.794	40.19	AD1	34.1	-32.9	0	41.39	54	-12.61	-	-	-	-	41	232	V
3	* 4.94	44.16	PK1	34.1	-31.7	0	46.56	-	-	74	-27.44	-	-	47	229	V
	* 4.933	33.55	AD1	34.1	-31.7	0	35.95	54	-18.05	-	-	-	-	47	229	V
6	* 13.328	37.34	PK1	39	-26.9	0	49.44	-	-	74	-24.56	-	-	140	191	V
	* 13.327	26.63	AD1	39	-26.9	0	38.73	54	-15.27	-	-	-	-	140	191	V
4	6.973	43.78	PK1	35.6	-31.7	0	47.68	-	-	-	-	68.2	-20.52	84	291	H
5	6.973	48.15	PK1	35.6	-31.7	0	52.05	-	-	-	-	68.2	-16.15	16	165	V

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

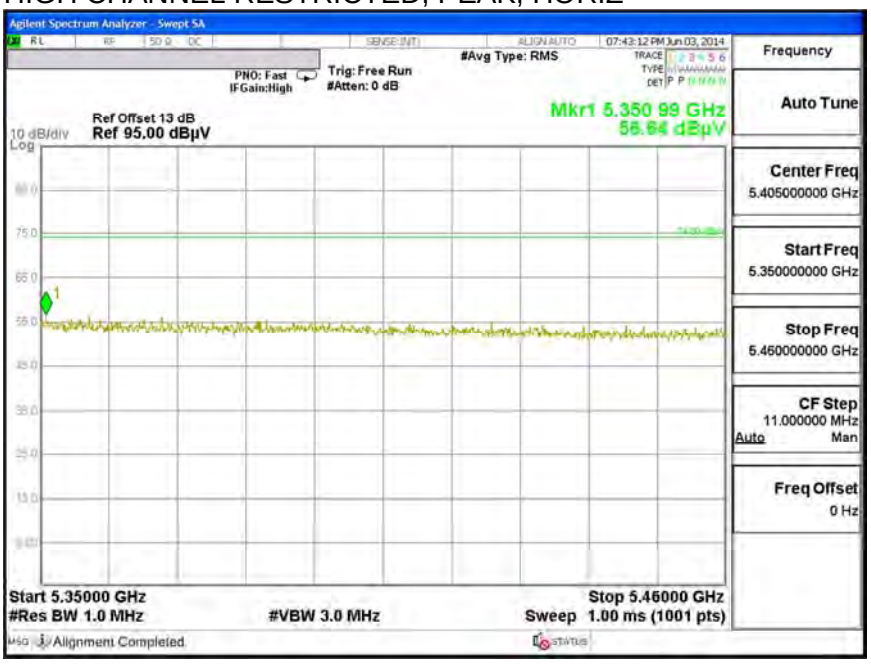
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

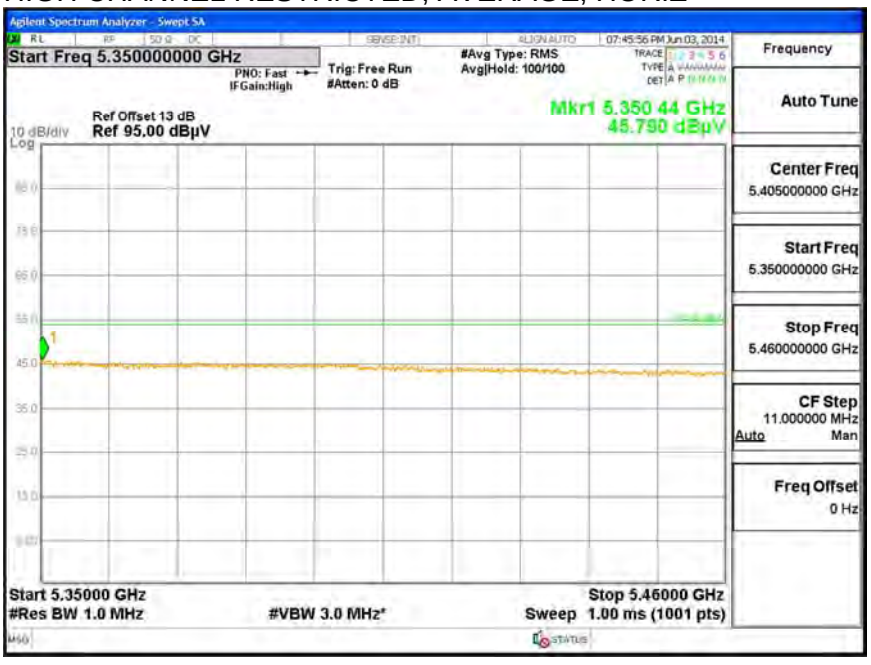
10.2.5. TX ABOVE 1 GHz 802.11a 1Tx MODE IN THE 5.3 GHz BAND

RESTRICTED BANDEDGE (HIGH CHANNEL)

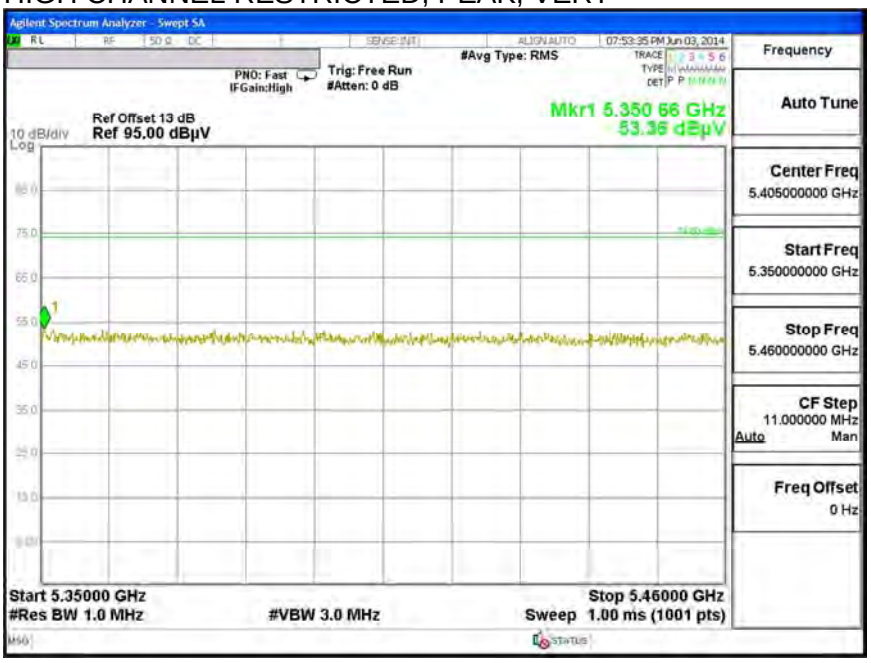
HIGH CHANNEL RESTRICTED, PEAK, HORIZ



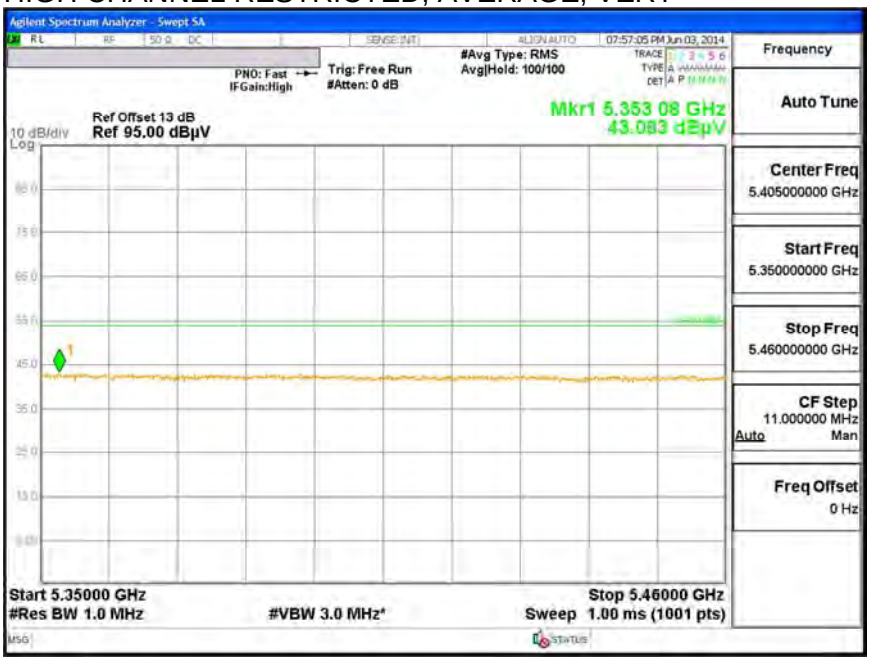
HIGH CHANNEL RESTRICTED, AVERAGE, HORIZ



HIGH CHANNEL RESTRICTED, PEAK, VERT

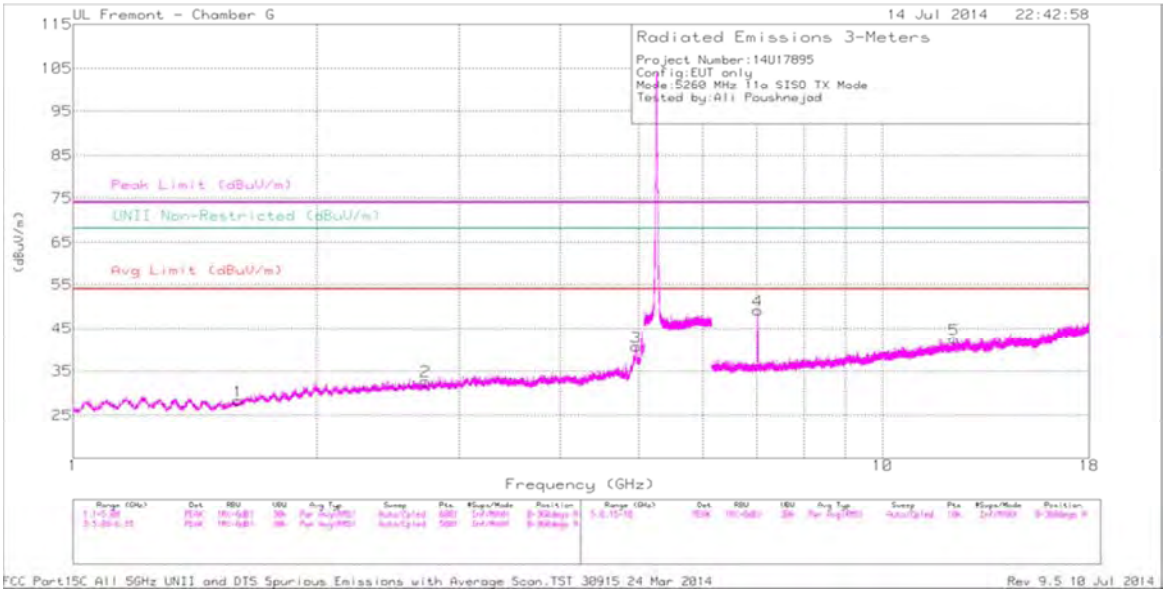


HIGH CHANNEL RESTRICTED, AVERAGE, VERT

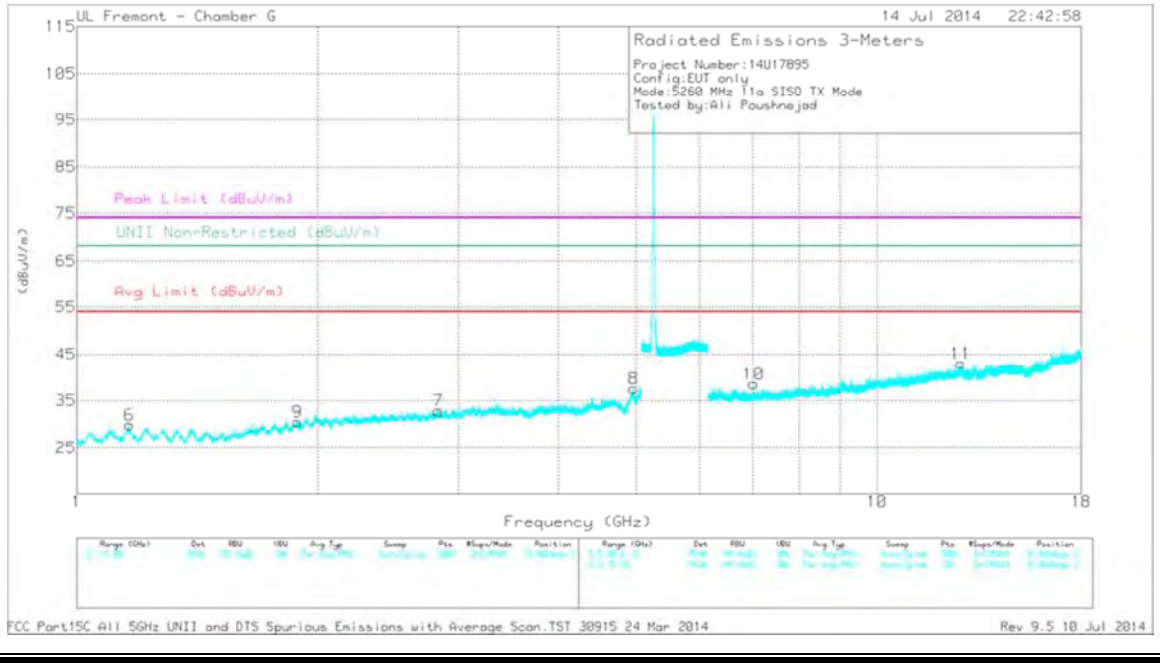


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT

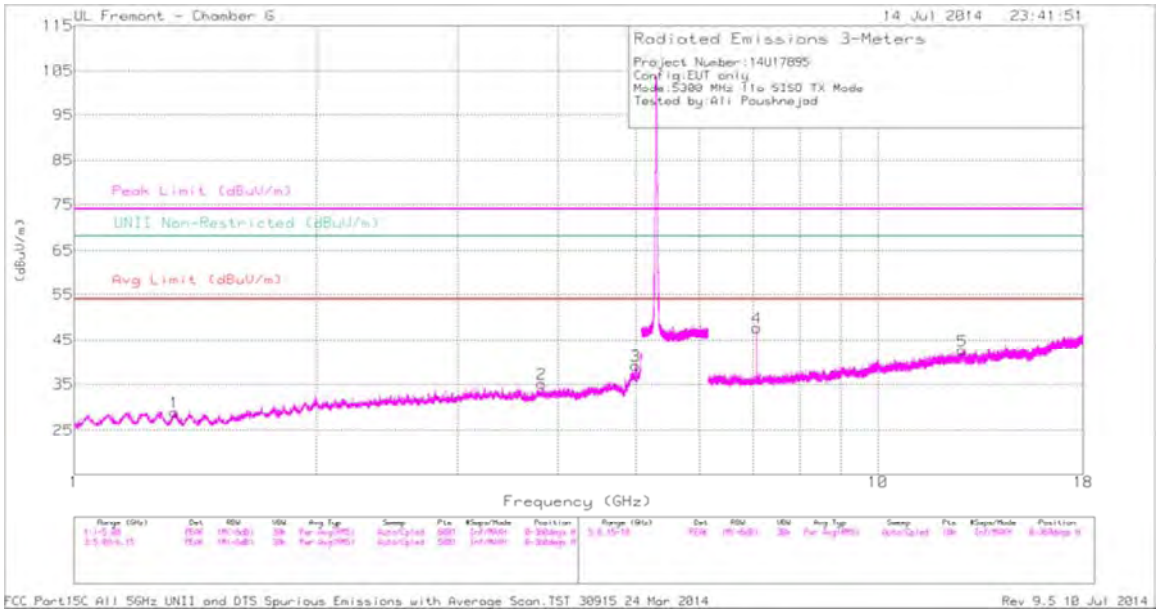


DATA

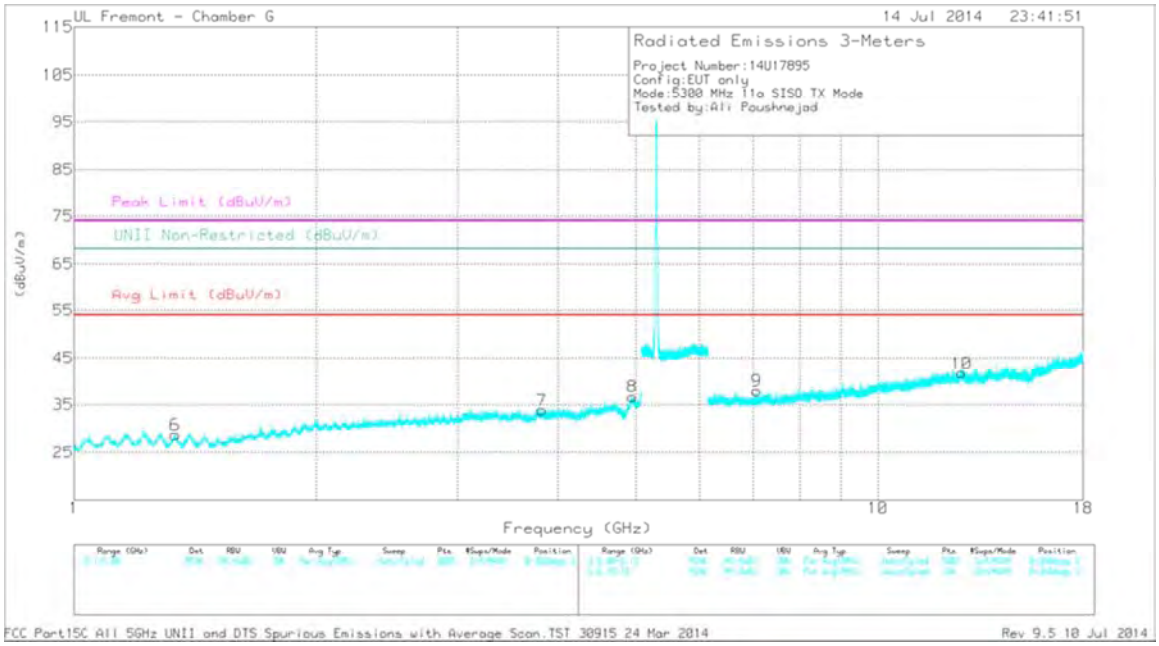
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.6	42.9	PK1	28.6	-35.3	36.2	-	-	74	-37.8	-	-	8	158	H
	* 1.601	31.24	AD1	28.6	-35.3	24.54	54	-29.46	-	-	-	-	8	158	H
2	* 2.724	42.99	PK1	32.2	-34.7	40.49	-	-	74	-33.51	-	-	325	396	H
	* 2.724	31.11	AD1	32.2	-34.7	28.61	54	-25.39	-	-	-	-	325	396	H
3	* 4.961	46.96	PK1	34.1	-31.8	49.26	-	-	74	-24.74	-	-	92	301	H
	* 4.963	36.26	AD1	34.1	-31.8	38.56	54	-15.44	-	-	-	-	92	301	H
6	* 1.166	44.5	PK1	28.8	-35.5	37.8	-	-	74	-36.2	-	-	344	177	V
	* 1.163	32.39	AD1	28.8	-35.5	25.69	54	-28.31	-	-	-	-	344	177	V
7	* 2.833	42.37	PK1	32.3	-33.7	40.97	-	-	74	-33.03	-	-	191	140	V
	* 2.83	30.54	AD1	32.3	-33.7	29.14	54	-24.86	-	-	-	-	191	140	V
8	* 4.965	43.91	PK1	34.1	-31.8	46.21	-	-	74	-27.79	-	-	34	185	V
	* 4.965	32.34	AD1	34.1	-31.8	34.64	54	-19.36	-	-	-	-	34	185	V
5	* 12.258	36.43	PK1	38.8	-26.5	48.73	-	-	74	-25.27	-	-	26	117	H
	* 12.261	25.34	AD1	38.8	-26.4	37.74	54	-16.26	-	-	-	-	26	117	H
9	1.889	34.99	PK	30.5	-35	30.49	-	-	-	-	68.2	-37.71	0-360	201	V
4	7.013	45.16	PK	35.6	-31.6	49.16	-	-	-	-	68.2	-19.04	0-360	201	H
10	7.014	34.58	PK	35.6	-31.6	38.58	-	-	-	-	68.2	-29.62	0-360	101	V
11	12.734	29.37	PK	39.1	-25.4	43.07	-	-	-	-	68.2	-25.13	0-360	201	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average
PK - Peak detector

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT

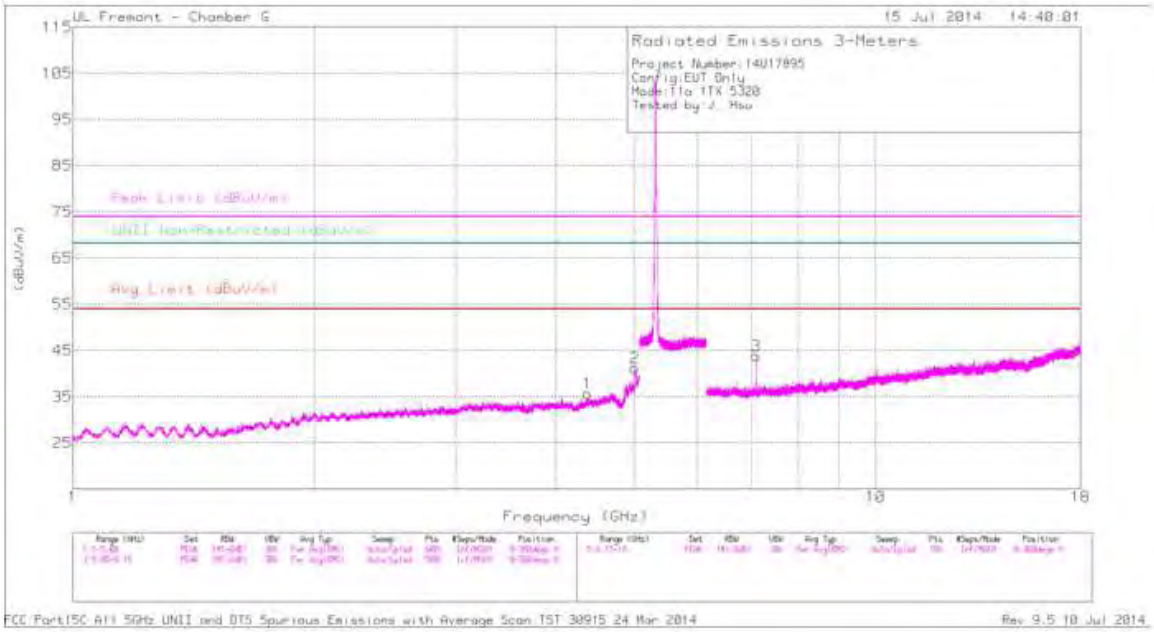


DATA

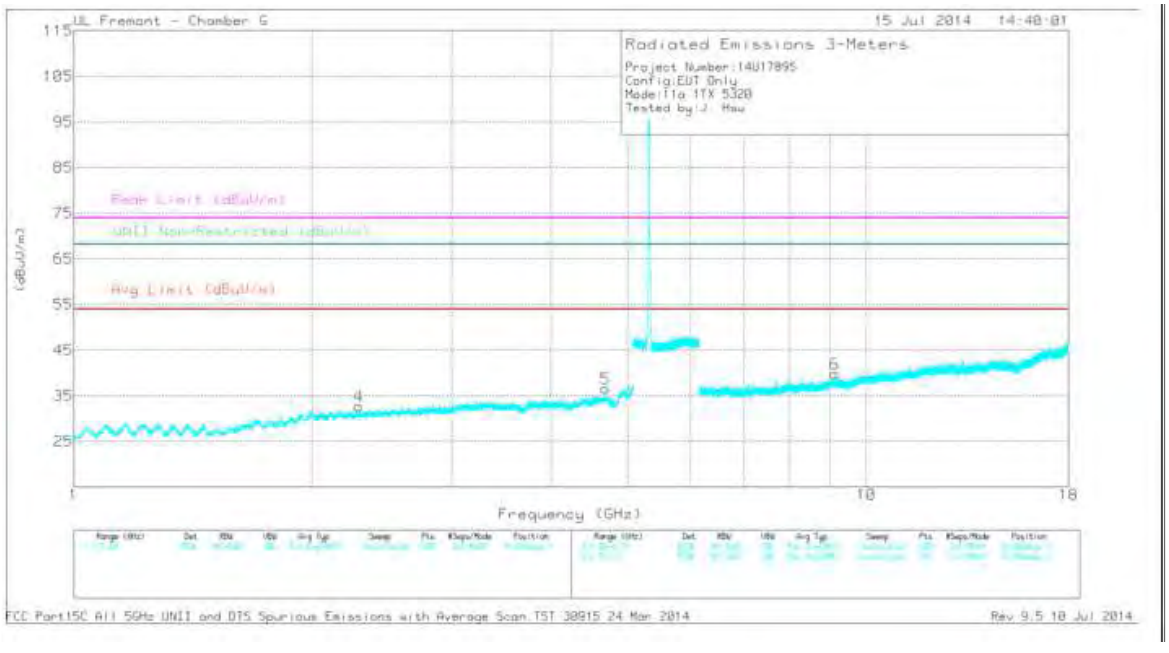
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.333	44.21	PK1	28.8	-35.8	37.21	-	-	74	-36.79	-	-	159	230	H
	* 1.334	32.2	AD1	28.8	-35.7	25.3	54	-28.7	-	-	-	-	159	230	H
2	* 3.819	42.37	PK1	33	-33.2	42.17	-	-	74	-31.83	-	-	207	255	H
	* 3.819	30.43	AD1	33	-33.2	30.23	54	-23.77	-	-	-	-	207	255	H
3	* 4.996	41.92	PK1	34.1	-32	44.02	-	-	74	-29.98	-	-	259	155	H
	* 4.998	31.34	AD1	34.1	-32.1	33.34	54	-20.66	-	-	-	-	259	155	H
6	* 1.335	44.18	PK1	28.8	-35.7	37.28	-	-	74	-36.72	-	-	227	248	V
	* 1.337	32.71	AD1	28.7	-35.7	25.71	54	-28.29	-	-	-	-	227	248	V
7	* 3.821	42.52	PK1	33	-33.2	42.32	-	-	74	-31.68	-	-	343	114	V
	* 3.822	30.93	AD1	33	-33.2	30.73	54	-23.27	-	-	-	-	343	114	V
8	* 4.948	41.38	PK1	34.1	-31.8	43.68	-	-	74	-30.32	-	-	225	111	V
	* 4.949	30.51	AD1	34.1	-31.8	32.81	54	-21.19	-	-	-	-	225	111	V
9	7.066	34.16	PK	35.6	-31.8	37.96	-	-	-	-	68.2	-30.24	0-360	101	V
4	7.067	43.93	PK	35.6	-31.8	47.73	-	-	-	-	68.2	-20.47	0-360	201	H
10	12.716	28.64	PK	39.1	-26	41.74	-	-	-	-	68.2	-26.46	0-360	101	V
5	12.738	28.92	PK	39.1	-25.4	42.62	-	-	-	-	68.2	-25.58	0-360	101	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average
PK - Peak detector

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

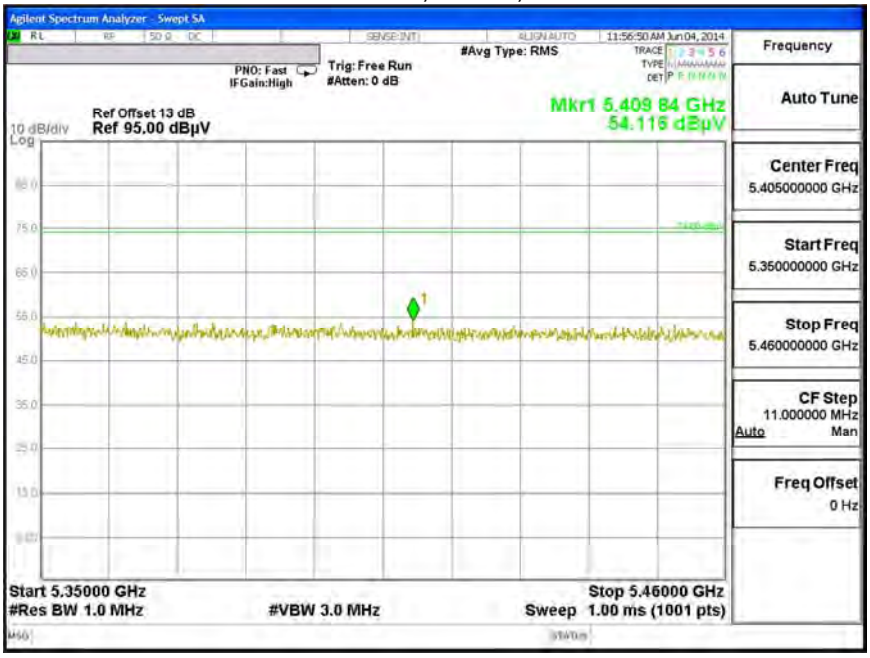
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.382	41.09	PK1	33.6	-32.6	42.09	-	-	74	-31.91	-	-	302	138	H
	* 4.383	29.96	AD1	33.6	-32.6	30.96	54	-23.04	-	-	-	-	302	138	H
2	* 5.014	41.54	PK1	34.1	-32.2	43.44	-	-	74	-30.56	-	-	207	189	H
	* 5.015	30.52	AD1	34.1	-32.1	32.52	54	-21.48	-	-	-	-	207	189	H
4	* 2.293	43.97	PK1	31.6	-34.6	40.97	-	-	74	-33.03	-	-	245	208	V
	* 2.289	31.54	AD1	31.6	-34.6	28.54	54	-25.46	-	-	-	-	245	208	V
5	* 4.692	43.31	PK1	34	-33	44.31	-	-	74	-29.69	-	-	271	194	V
	* 4.691	31.06	AD1	34	-33	32.06	54	-21.94	-	-	-	-	271	194	V
6	* 9.12	38.5	PK1	36.4	-29	45.9	-	-	74	-28.1	-	-	244	152	V
	* 9.119	27.91	AD1	36.4	-29	35.31	54	-18.69	-	-	-	-	244	152	V
3	7.093	45.5	PK1	35.6	-31.6	49.5	-	-	-	-	68.2	-18.7	324	108	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

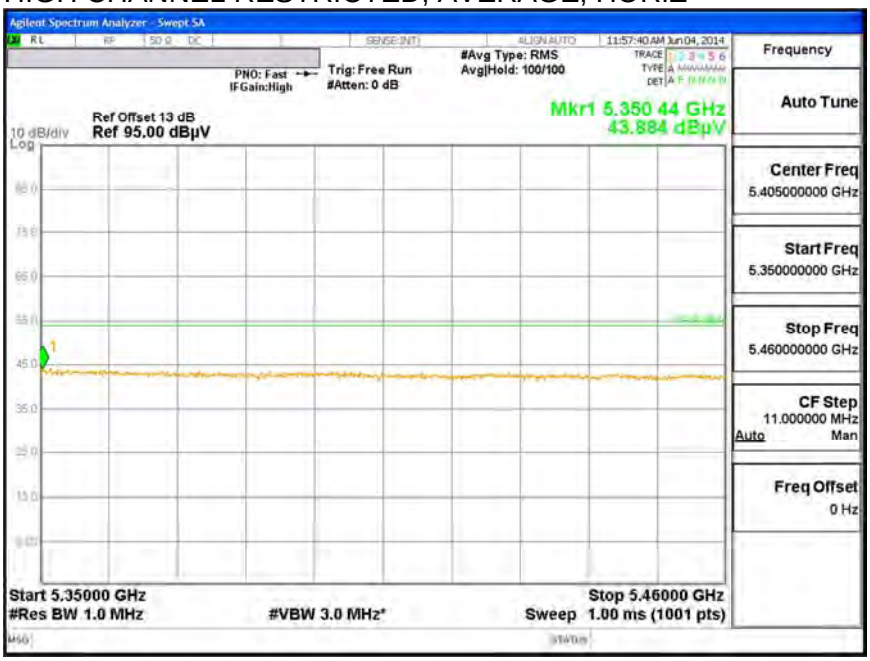
10.2.6. TX ABOVE 1 GHz 802.11n HT20 2Tx CDD MODE IN THE 5.3 GHz BAND

RESTRICTED BANDEDGE (HIGH CHANNEL)

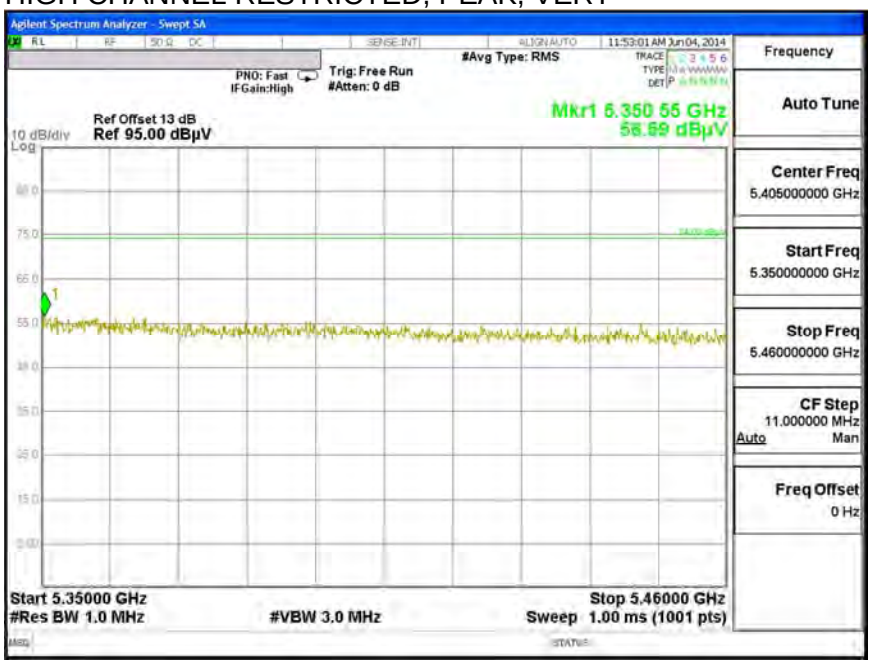
HIGH CHANNEL RESTRICTED, PEAK, HORIZ



HIGH CHANNEL RESTRICTED, AVERAGE, HORIZ



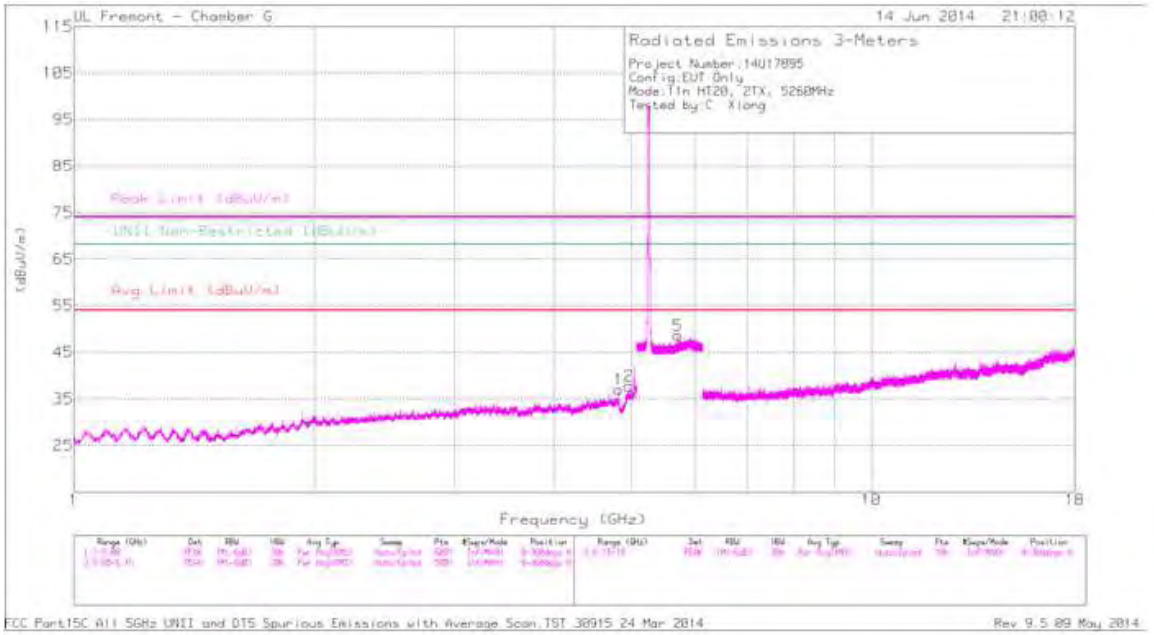
HIGH CHANNEL RESTRICTED, PEAK, VERT



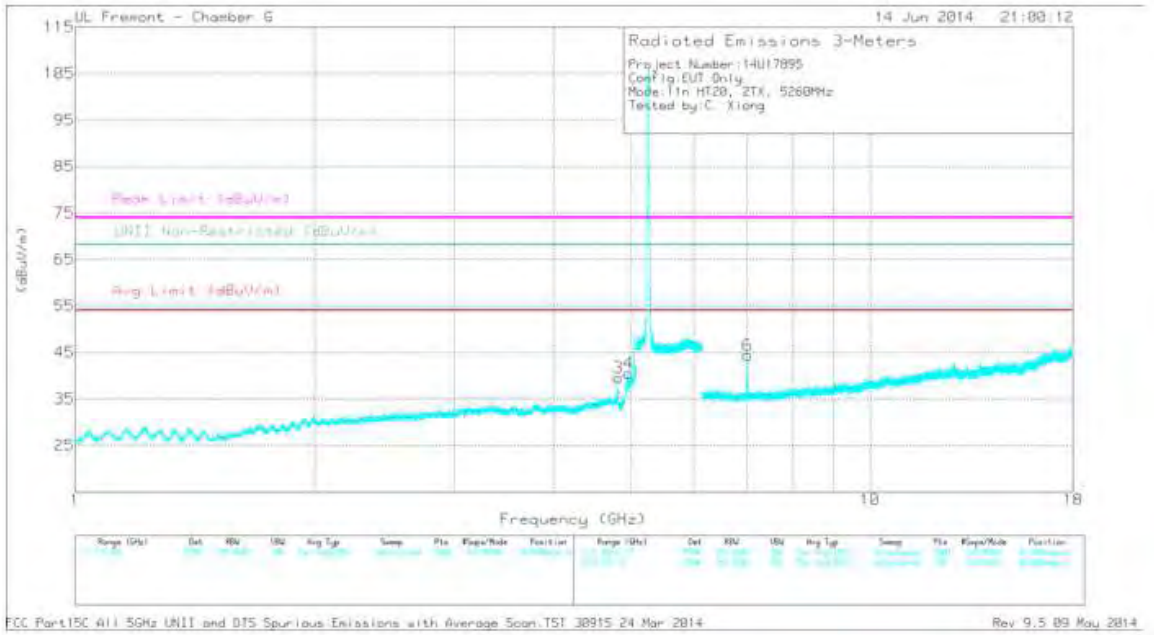
HIGH CHANNEL RESTRICTED, AVERAGE, VERT

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT

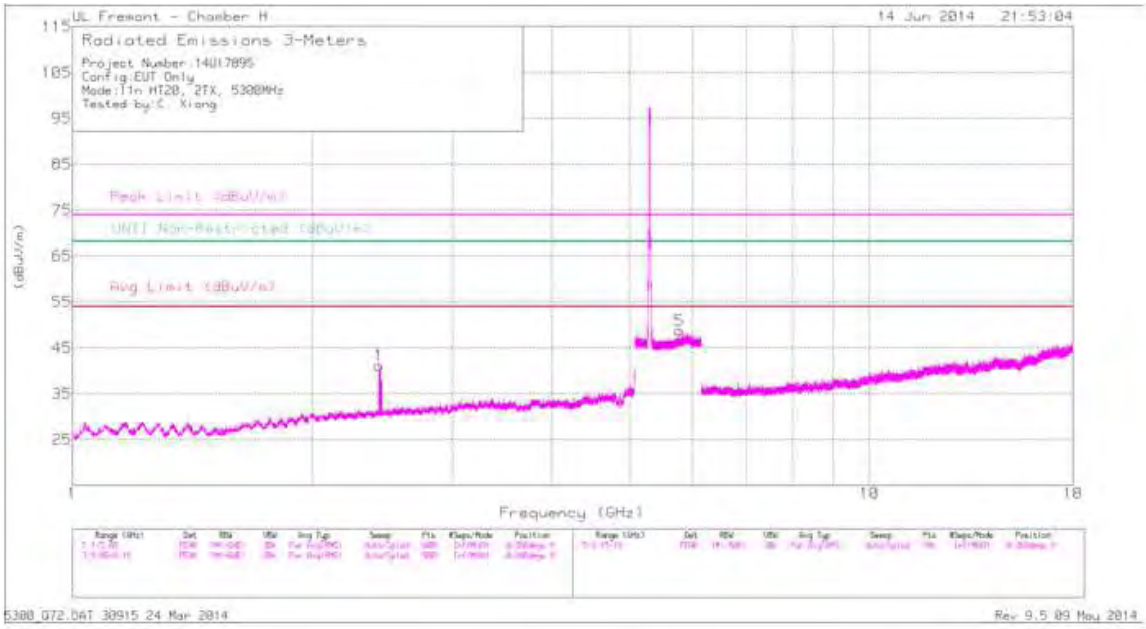


DATA

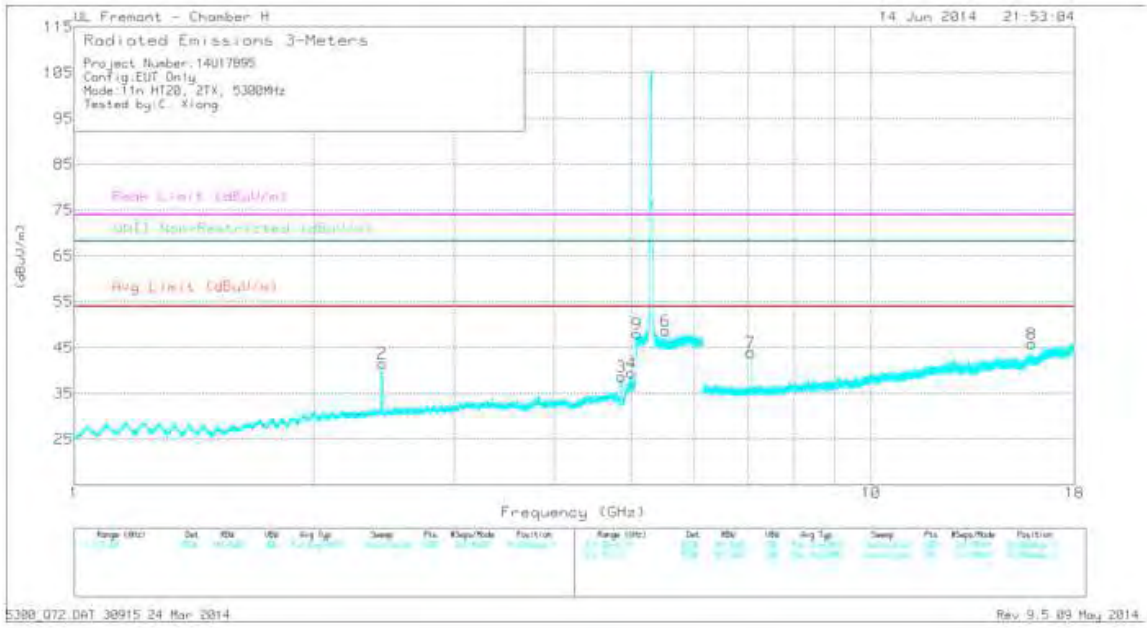
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.822	44.27	PK1	34.1	-32.6	0	45.77	-	-	74	-28.23	-	-	10	307	H
	* 4.822	36.13	AD1	34.1	-32.6	0	37.63	54	-16.37	-	-	-	-	10	307	H
2	* 4.968	43.04	PK1	34.1	-31.9	0	45.24	-	-	74	-28.76	-	-	14	241	H
	* 4.964	32.12	AD1	34.1	-31.8	0	34.42	54	-19.58	-	-	-	-	14	241	H
3	* 4.822	45.76	PK1	34.1	-32.6	0	47.26	-	-	74	-26.74	-	-	33	231	V
	* 4.822	37.85	AD1	34.1	-32.6	0	39.35	54	-14.65	-	-	-	-	33	231	V
4	* 4.955	47.01	PK1	34.1	-31.9	0	49.21	-	-	74	-24.79	-	-	37	243	V
	* 4.965	36.06	AD1	34.1	-31.8	0	38.36	54	-15.64	-	-	-	-	37	243	V
5	5.724	41.68	PK1	34.8	-23.5	0	52.98	-	-	-	-	68.2	-15.22	37	243	H
6	7.013	43.94	PK1	35.6	-31.6	0	47.94	-	-	-	-	68.2	-20.26	9	176	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT

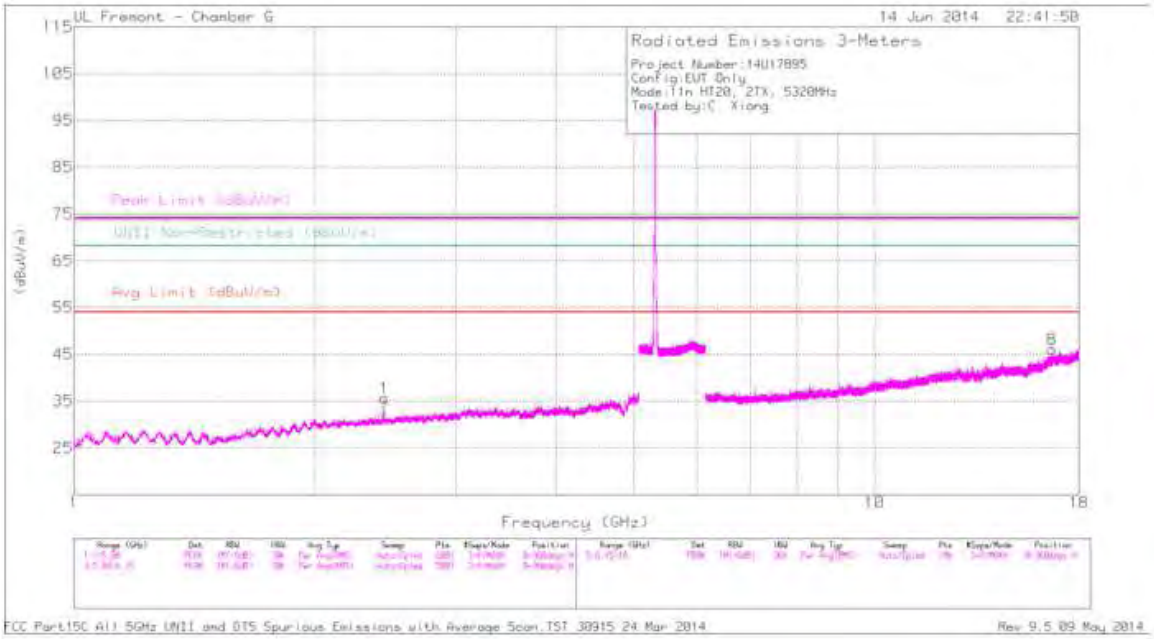


DATA

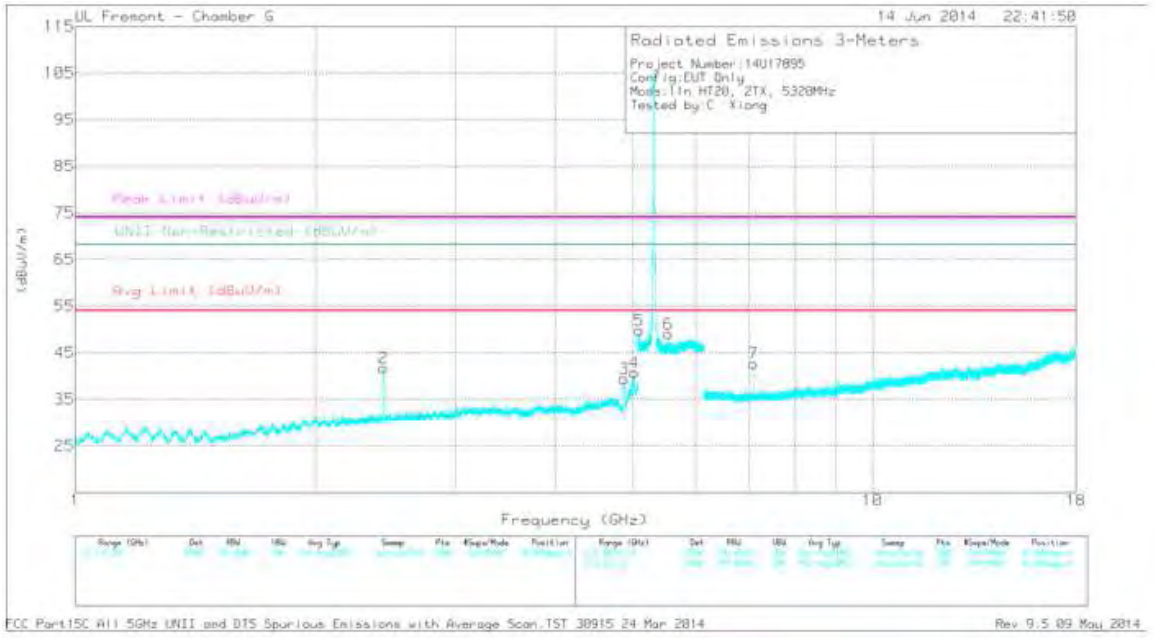
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.858	47.4	PK1	34.1	-32.4	0	49.1	-	-	74	-24.9	-	-	39	231	V
	* 4.855	37.19	AD1	34.1	-32.5	0	38.79	54	-15.21	-	-	-	-	39	231	V
4	* 5.007	45.91	PK1	34.1	-32.2	0	47.81	-	-	74	-26.19	-	-	29	202	V
	* 4.997	35.29	AD1	34.1	-32.1	0	37.29	54	-16.71	-	-	-	-	29	202	V
9	* 5.084	45.08	PK1	34.2	-23.7	0	55.58	-	-	74	-18.42	-	-	277	188	V
	* 5.083	34.22	AD1	34.2	-23.7	0	44.72	54	-9.28	-	-	-	-	277	188	V
8	* 15.897	41.34	PK1	40.4	-27.2	0	54.54	-	-	74	-19.46	-	-	25	220	V
	* 15.898	29.17	AD1	40.4	-27.2	0	42.37	54	-11.63	-	-	-	-	25	220	V
1	2.425	43.02	PK1	31.8	-34.5	0	40.32	-	-	-	-	68.2	-27.88	172	263	H
2	2.438	48.12	PK1	31.9	-34.5	0	45.52	-	-	-	-	68.2	-22.68	172	263	V
6	5.52	42.61	PK1	34.7	-23.6	0	53.71	-	-	-	-	68.2	-14.49	172	263	V
5	5.779	41.64	PK1	34.8	-23.5	0	52.94	-	-	-	-	68.2	-15.26	172	263	H
7	7.067	44.77	PK1	35.6	-31.8	0	48.57	-	-	-	-	68.2	-19.63	18	184	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

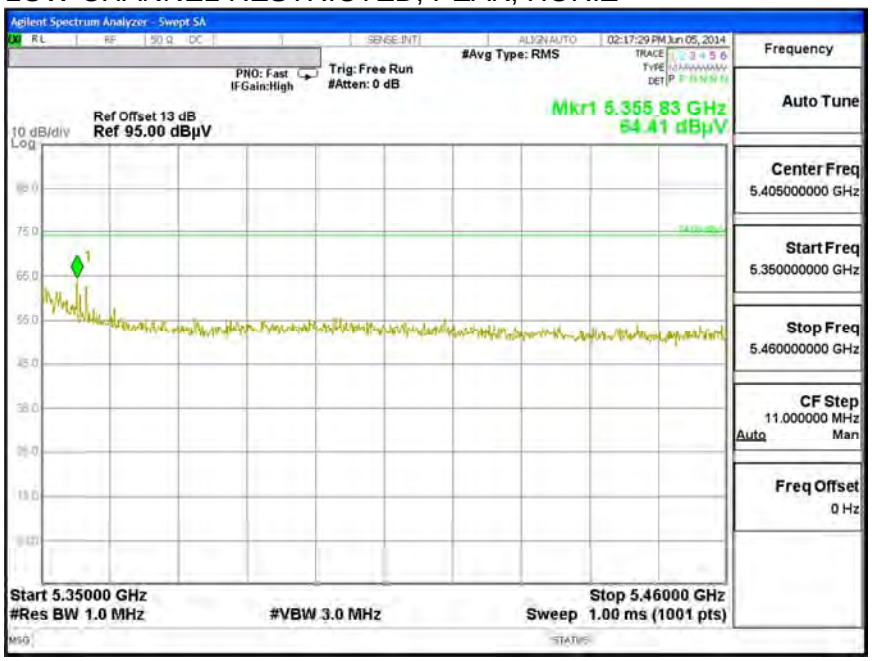
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 4.88	47.59	PK1	34.1	-32.1	0	49.59	-	-	74	-24.41	-	-	28	209	V
	* 4.883	37.98	AD1	34.1	-32.1	0	39.98	54	-14.02	-	-	-	-	28	209	V
4	* 5.027	47.15	PK1	34.1	-32	0	49.25	-	-	74	-24.75	-	-	26	193	V
	* 5.026	29.78	AD1	34.1	-32	0	31.88	54	-22.12	-	-	-	-	26	193	V
5	* 5.107	41.39	PK1	34.3	-23.6	0	52.09	-	-	74	-21.91	-	-	26	193	V
	* 5.107	30	AD1	34.3	-23.6	0	40.7	54	-13.3	-	-	-	-	26	193	V
2	2.434	45.94	PK1	31.9	-34.6	0	43.24	-	-	-	-	68.2	-24.96	352	118	V
1	2.433	45.02	PK1	31.9	-34.6	0	42.32	-	-	-	-	68.2	-25.88	185	149	H
6	5.549	41.71	PK1	34.7	-23.6	0	52.81	-	-	-	-	68.2	-15.39	155	123	V
7	7.087	40.64	PK1	35.6	-31.7	0	44.54	-	-	-	-	68.2	-23.66	273	307	V
8	16.674	37.93	PK1	41.6	-26.5	0	53.03	-	-	-	-	68.2	-15.17	273	307	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

10.2.7. TX ABOVE 1 GHz 802.11n HT40 1Tx MODE IN THE 5.3 GHz BAND

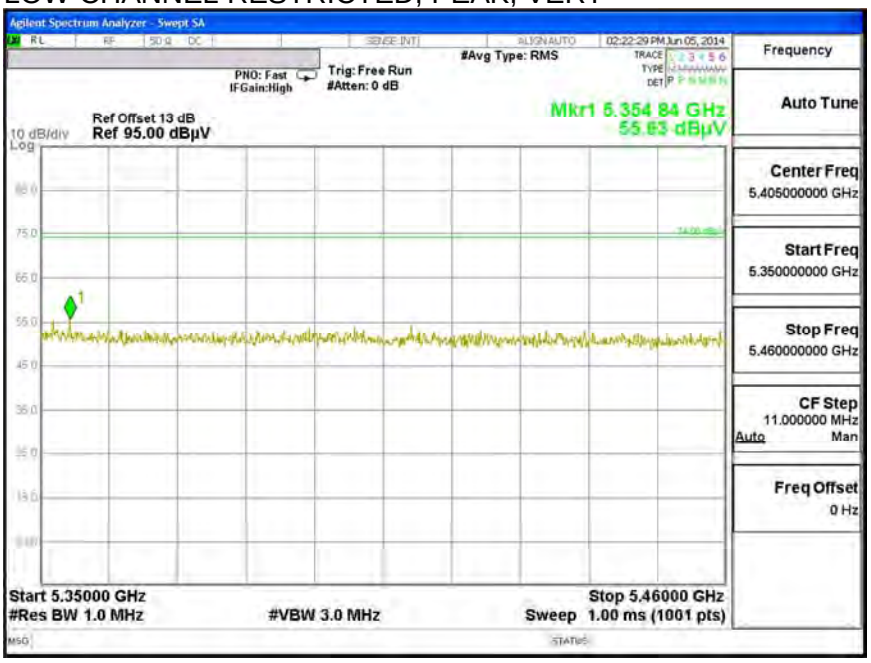
RESTRICTED BANDEDGE (LOW CHANNEL)

LOW CHANNEL RESTRICTED, PEAK, HORIZ

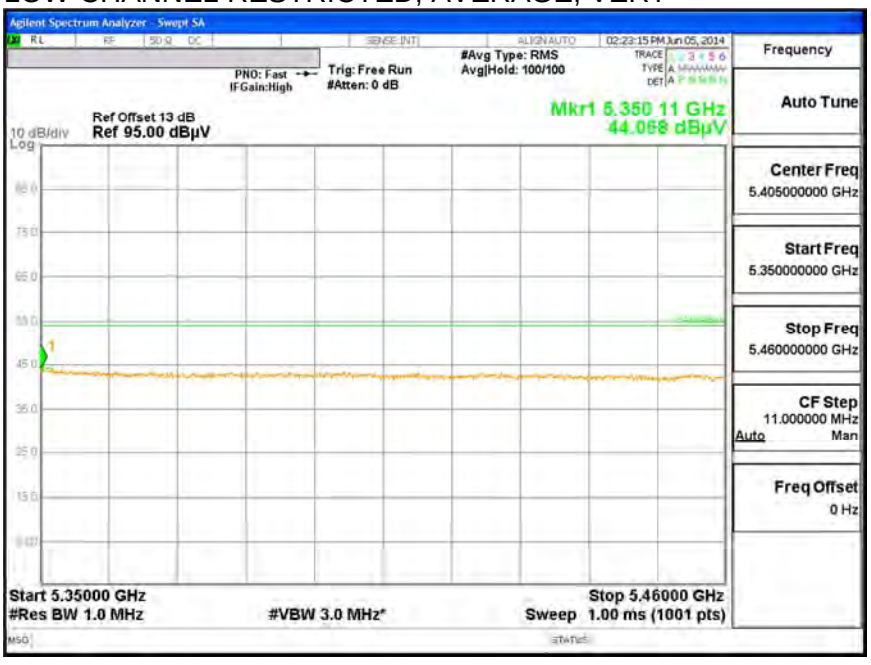


LOW CHANNEL RESTRICTED, AVERAGE, HORIZ

LOW CHANNEL RESTRICTED, PEAK, VERT

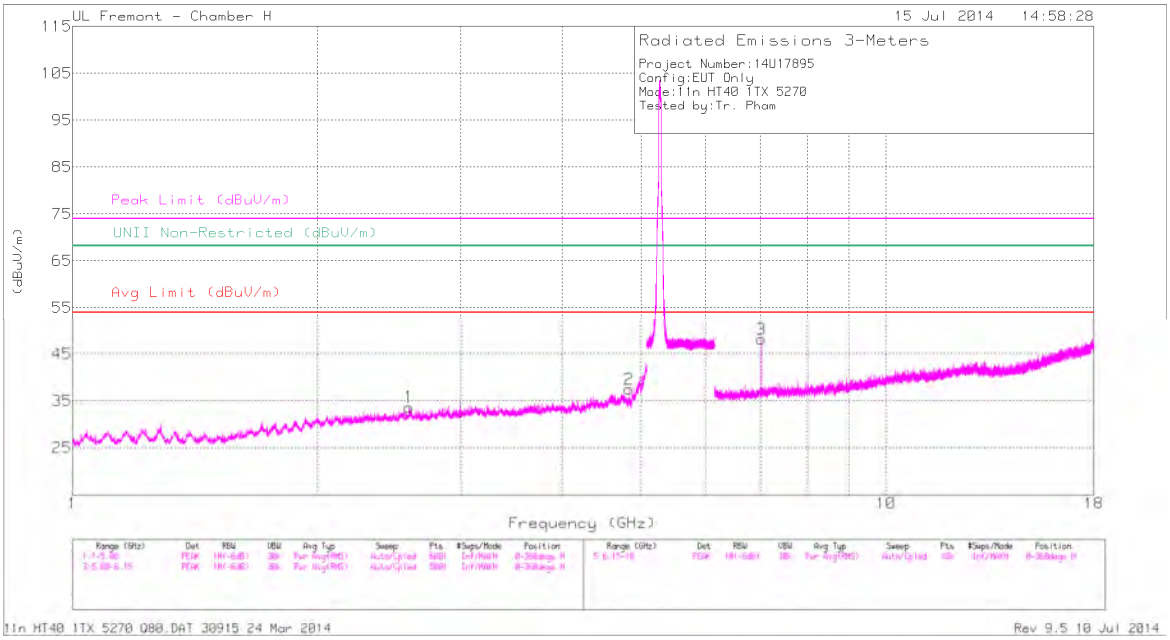


LOW CHANNEL RESTRICTED, AVERAGE, VERT

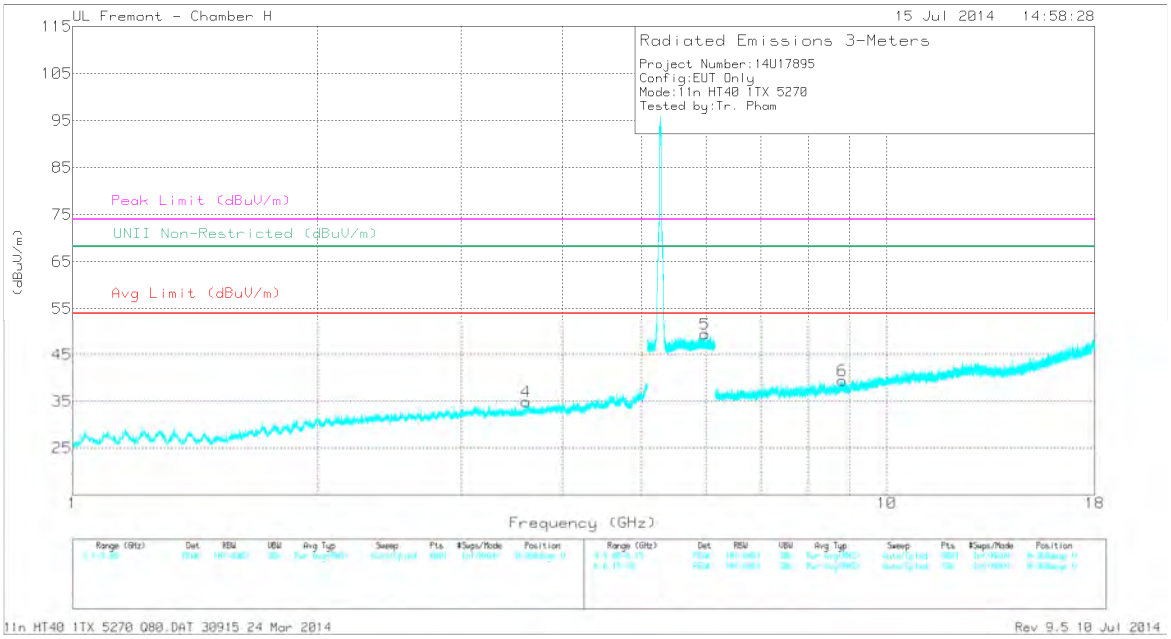


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



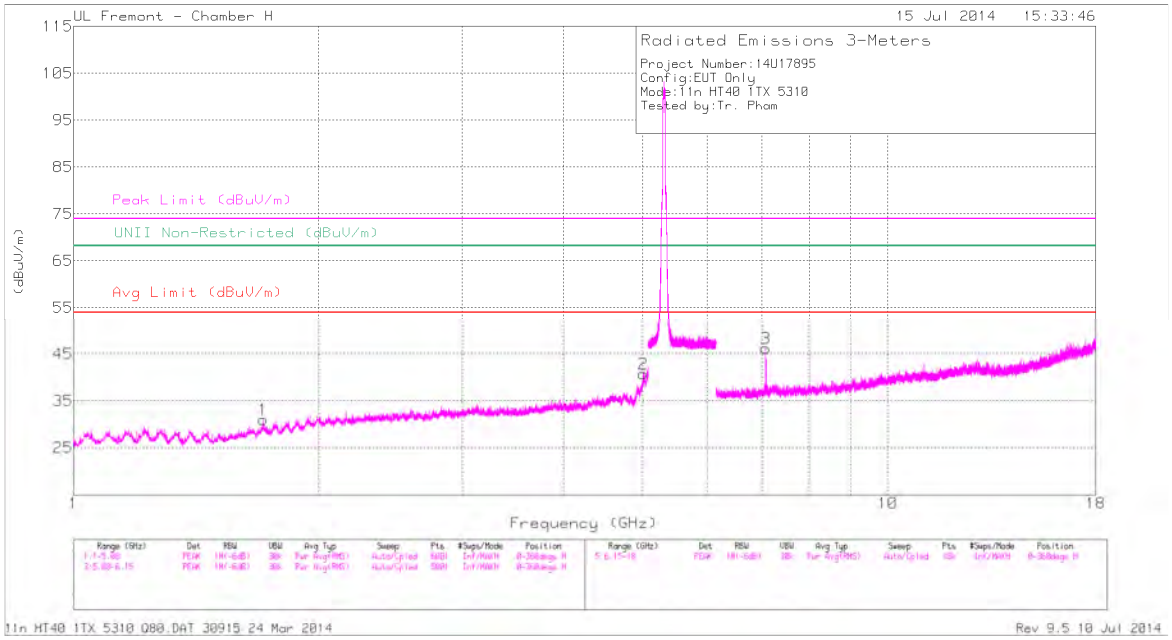
DATA

Trace Markers

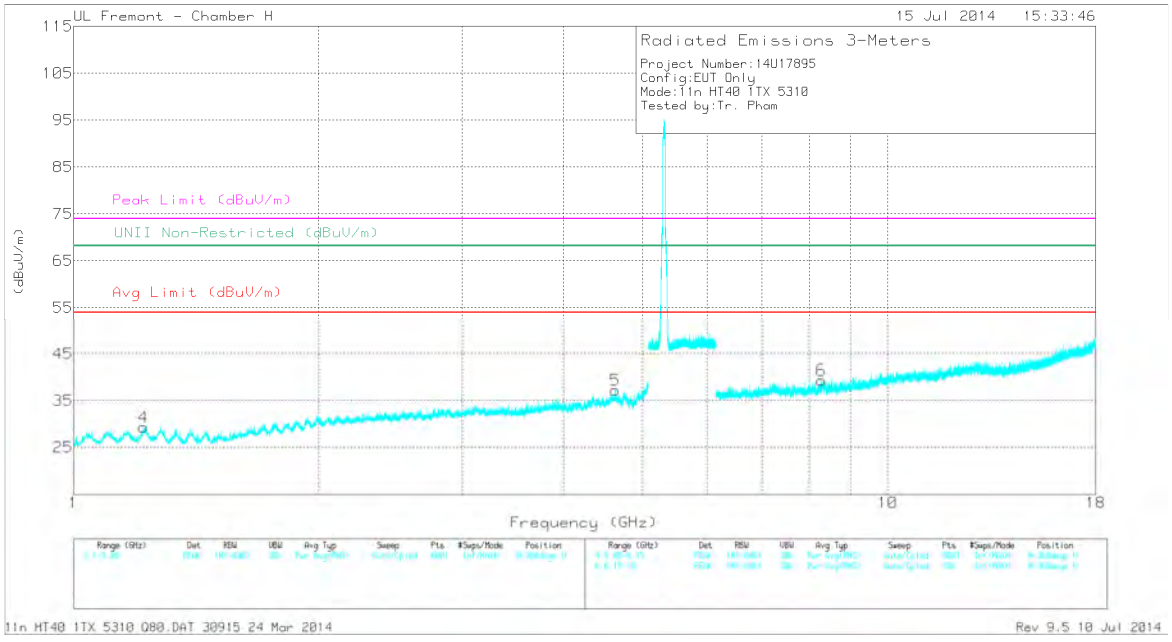
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.831	44.02	PK1	34.3	-31.7	46.62	-	-	74	-27.38	-	-	310	134	H
	* 4.831	33.42	AD1	34.3	-31.7	36.02	54	-17.98	-	-	-	-	310	134	H
4	* 3.604	41.31	PK1	33	-33	41.31	-	-	74	-32.69	-	-	295	157	V
	* 3.606	30.17	AD1	33	-32.9	30.27	54	-23.73	-	-	-	-	295	157	V
1	2.595	42.04	PK1	32.2	-33.2	41.04	-	-	-	-	68.2	-27.16	325	153	H
5	5.976	43.17	PK1	35.2	-22.2	56.17	-	-	-	-	68.2	-12.03	321	168	V
3	7.027	46.35	PK1	35.8	-29.7	52.45	-	-	-	-	68.2	-15.75	345	101	H
6	8.823	38.19	PK1	36.3	-27	47.49	-	-	-	-	68.2	-20.71	318	130	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

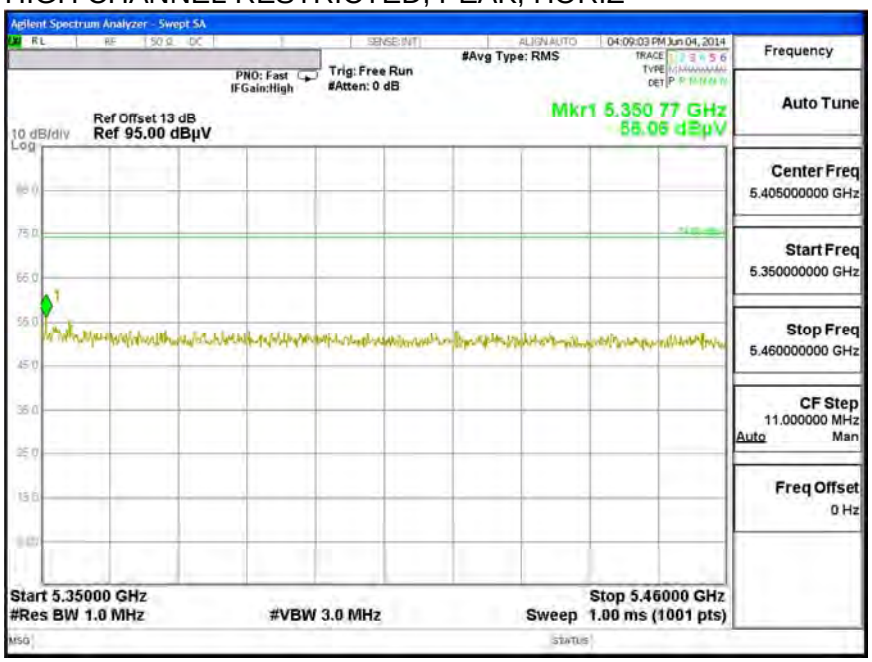
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.709	43.37	PK1	29.4	-34.3	38.47	-	-	74	-35.53	-	-	333	140	H
	* 1.709	31.72	AD1	29.4	-34.3	26.82	54	-27.18	-	-	-	-	333	140	H
2	* 5.015	46.4	PK1	34.3	-31.2	49.5	-	-	74	-24.5	-	-	300	125	H
	* 5.012	35.58	AD1	34.3	-31.3	38.58	54	-15.42	-	-	-	-	300	125	H
4	* 1.218	43.81	PK1	28.8	-35.6	37.01	-	-	74	-36.99	-	-	328	155	V
	* 1.219	32.54	AD1	28.8	-35.6	25.74	54	-28.26	-	-	-	-	328	155	V
5	* 4.629	42.68	PK1	34.2	-32	44.88	-	-	74	-29.12	-	-	292	180	V
	* 4.631	30.93	AD1	34.2	-32	33.13	54	-20.87	-	-	-	-	292	180	V
6	* 8.292	37.75	PK1	36.1	-27.5	46.35	-	-	74	-27.65	-	-	334	143	V
	* 8.295	26.72	AD1	36.1	-27.5	35.32	54	-18.68	-	-	-	-	334	143	V
3	7.08	45.93	PK1	35.9	-29.9	51.93	-	-	-	-	68.2	-16.27	303	116	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

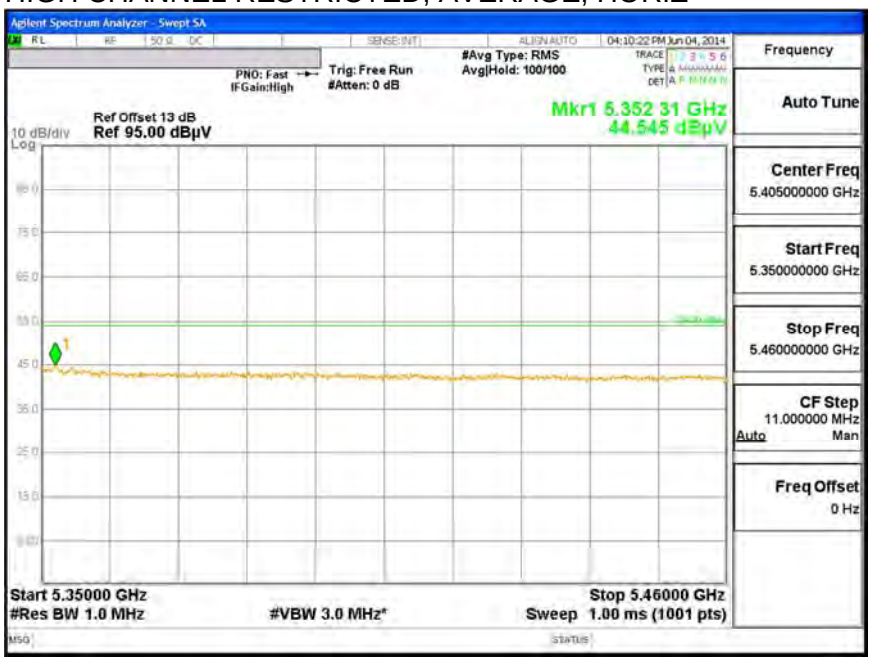
10.2.8. TX ABOVE 1 GHz 802.11n HT40 2Tx CDD MODE IN THE 5.3 GHz BAND

RESTRICTED BANDEDGE (HIGH CHANNEL)

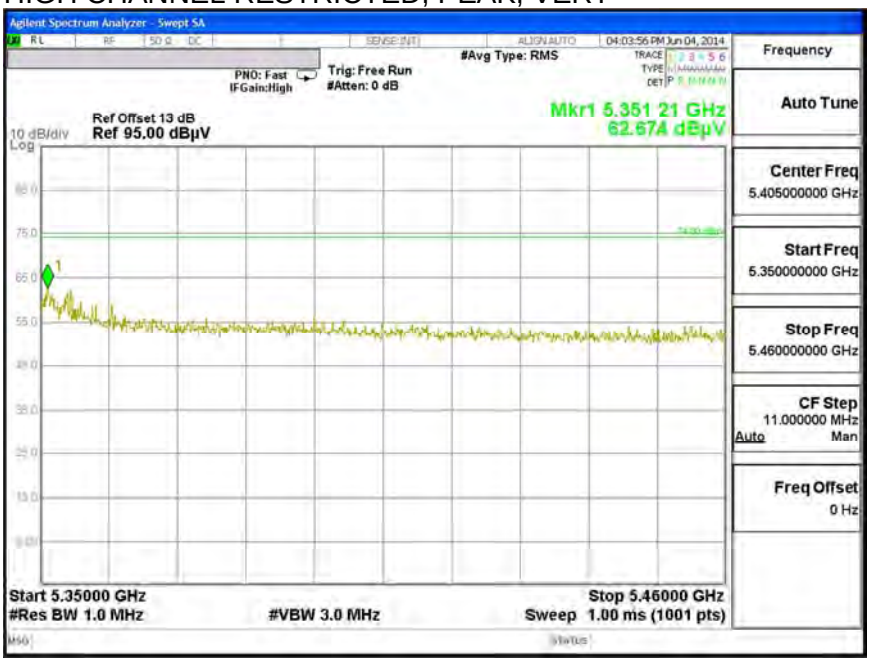
HIGH CHANNEL RESTRICTED, PEAK, HORIZ



HIGH CHANNEL RESTRICTED, AVERAGE, HORIZ



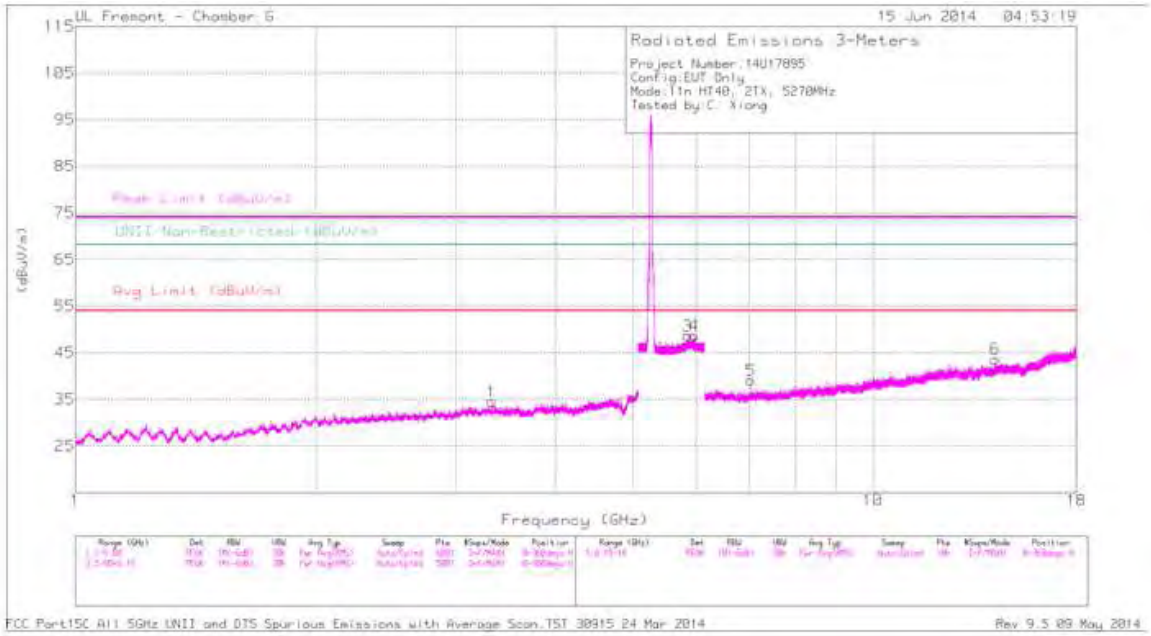
HIGH CHANNEL RESTRICTED, PEAK, VERT



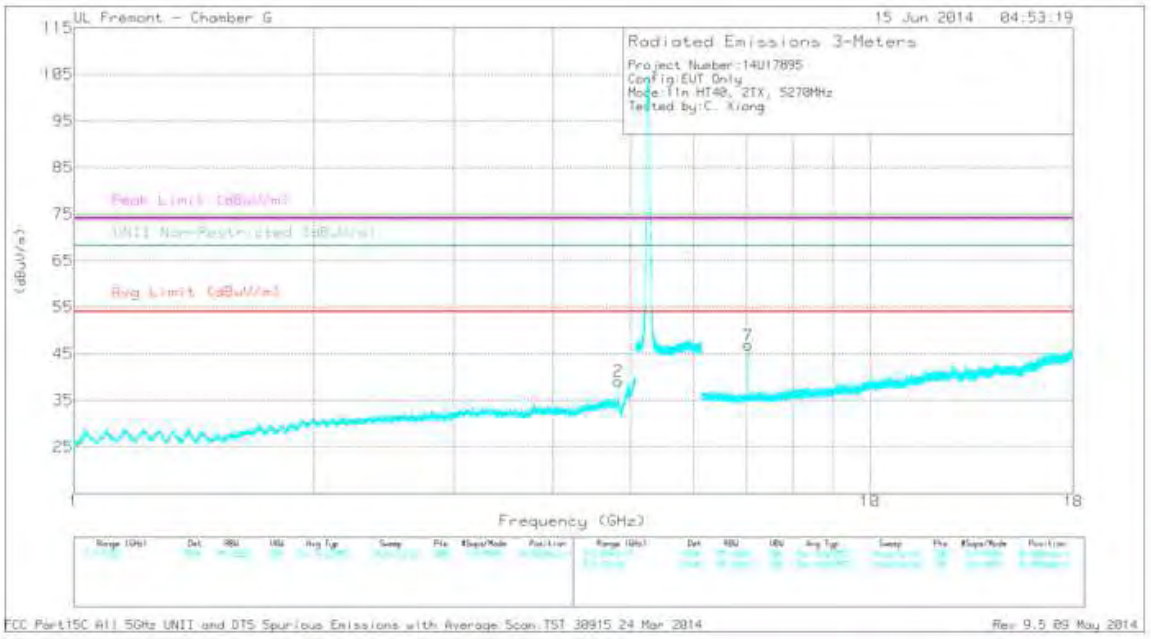
HIGH CHANNEL RESTRICTED, AVERAGE, VERT

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT

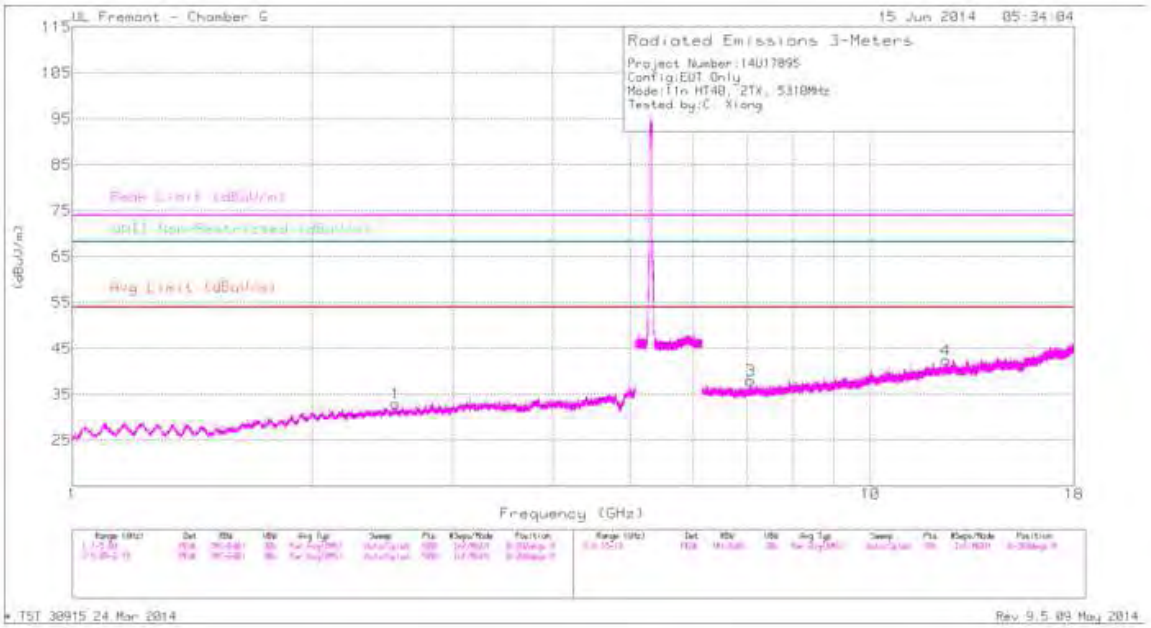


DATA

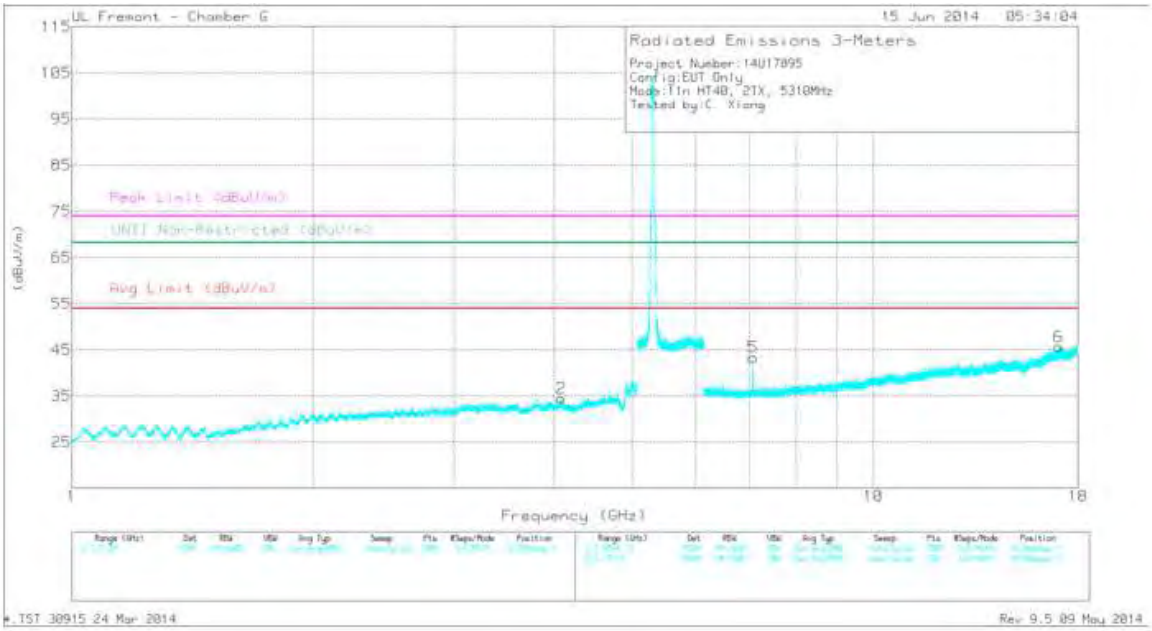
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.831	44.39	PK1	34.1	-32.6	0	45.89	-	-	74	-28.11	-	-	46	185	V
	* 4.831	37.65	AD1	34.1	-32.6	0	39.15	54	-14.85	-	-	-	-	46	185	V
1	3.328	42.27	PK1	32.9	-33.2	0	41.97	-	-	-	-	68.2	-26.23	15	131	H
3	5.856	41.73	PK1	35	-23.6	0	53.13	-	-	-	-	68.2	-15.07	215	352	H
4	5.977	41.63	PK1	35.2	-23.6	0	53.23	-	-	-	-	68.2	-14.97	232	347	H
5	7.027	41.46	PK1	35.6	-31.7	0	45.36	-	-	-	-	68.2	-22.84	20	321	H
7	7.027	46.18	PK1	35.6	-31.7	0	50.08	-	-	-	-	68.2	-18.12	19	175	V
6	14.241	37.82	PK1	39.8	-27.2	0	50.42	-	-	-	-	68.2	-17.78	37	121	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

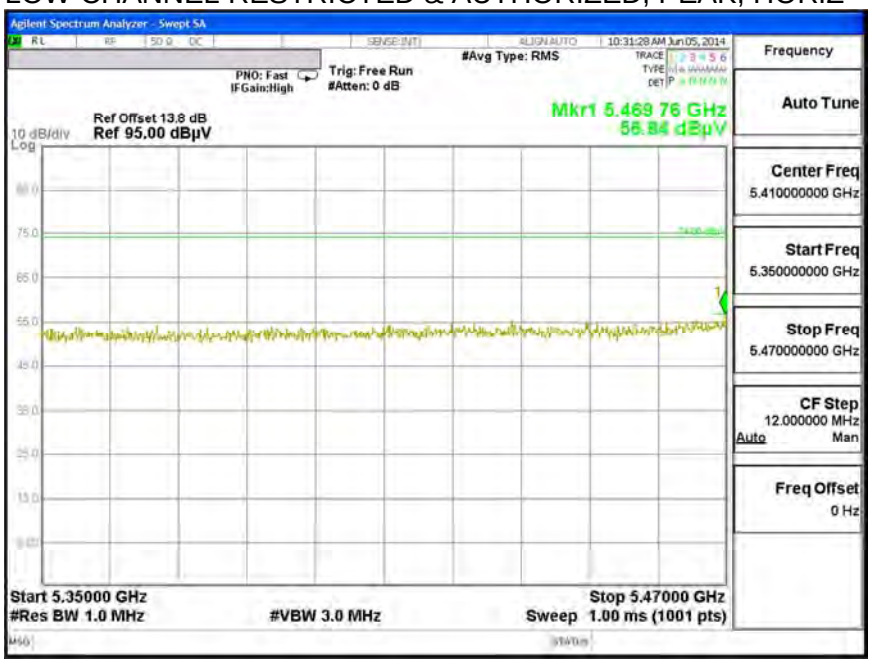
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.084	41.23	PK1	33.4	-33.5	0	41.13	-	-	74	-32.87	-	-	17	114	V
	* 4.073	30.83	AD1	33.4	-33.5	0	30.73	54	-23.27	-	-	-	-	17	114	V
4	* 12.433	37.43	PK1	38.9	-26.6	0	49.73	-	-	74	-24.27	-	-	17	114	H
	* 12.435	26.37	AD1	38.9	-26.6	0	38.67	54	-15.33	-	-	-	-	17	114	H
1	2.54	42.47	PK1	32	-34.4	0	40.07	-	-	-	-	68.2	-28.13	17	114	H
3	7.084	41.41	PK1	35.6	-31.7	0	45.31	-	-	-	-	68.2	-22.89	90	201	H
5	7.08	44.8	PK1	35.6	-31.7	0	48.7	-	-	-	-	68.2	-19.5	15	201	V
6	17.042	36.73	PK1	42	-25.4	0	53.33	-	-	-	-	68.2	-14.87	15	201	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

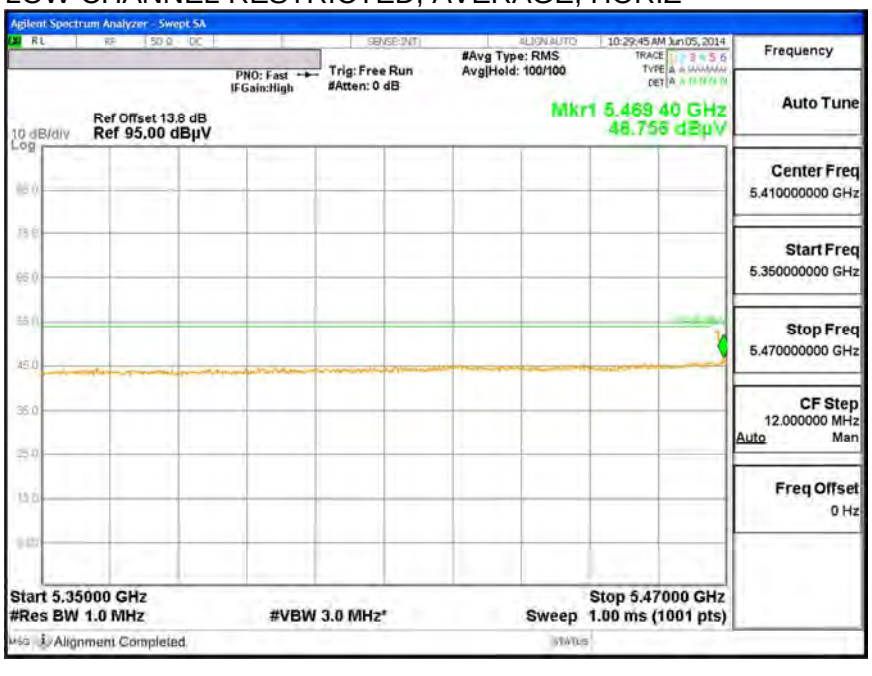
10.2.9. TX ABOVE 1 GHz 802.11a 1Tx MODE IN THE 5.6 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

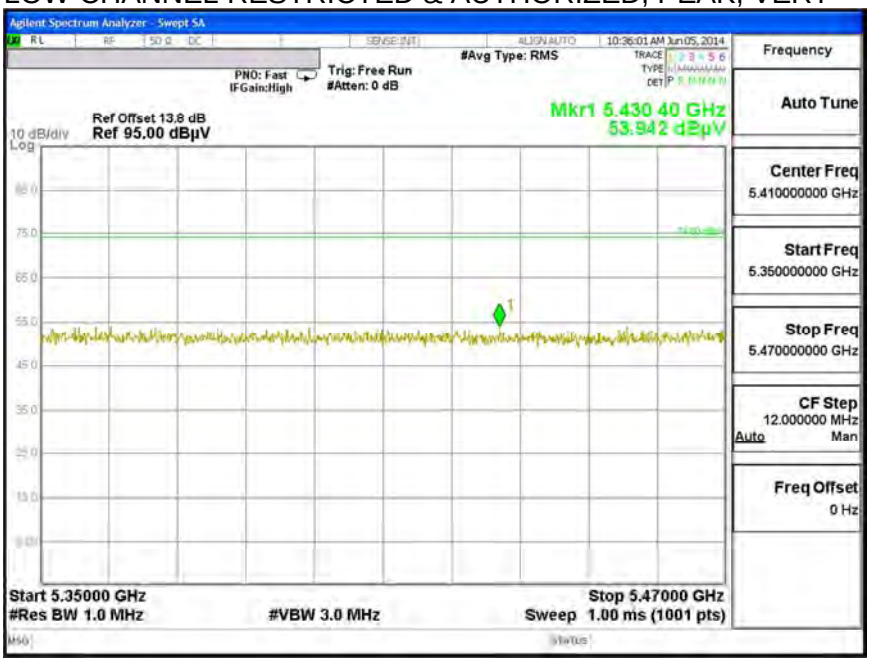
LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, HORIZ



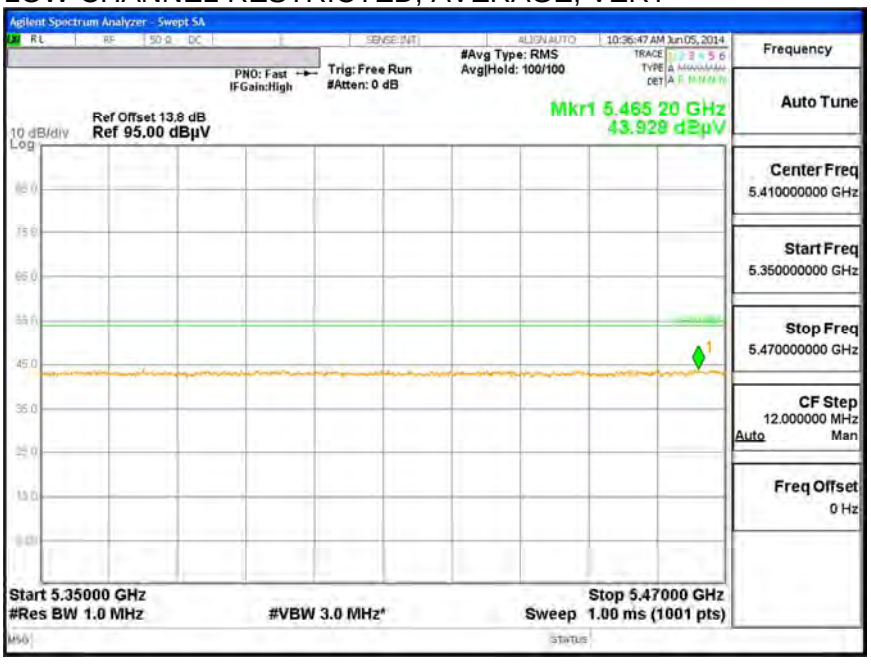
LOW CHANNEL RESTRICTED, AVERAGE, HORIZ



LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, VERT

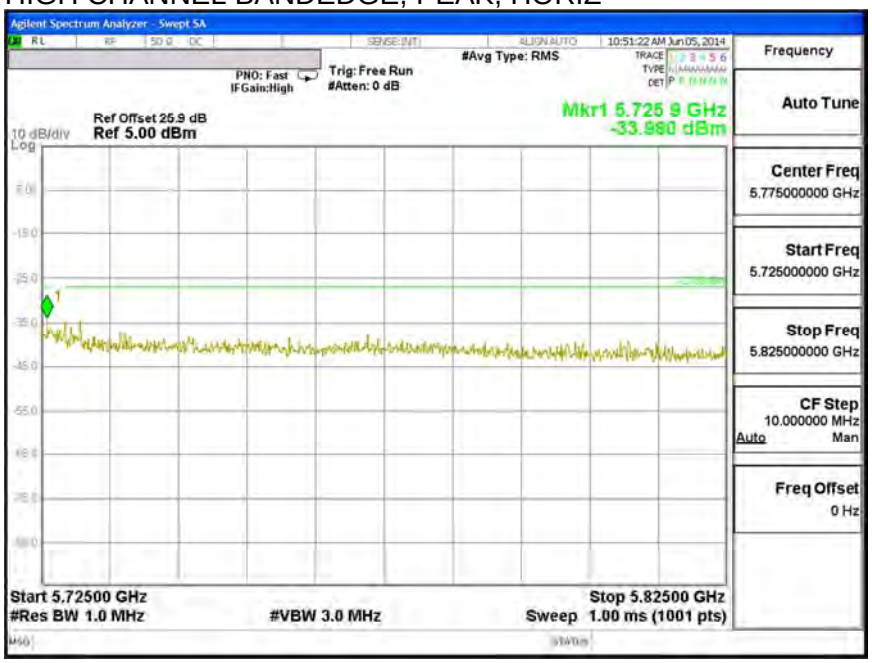


LOW CHANNEL RESTRICTED, AVERAGE, VERT

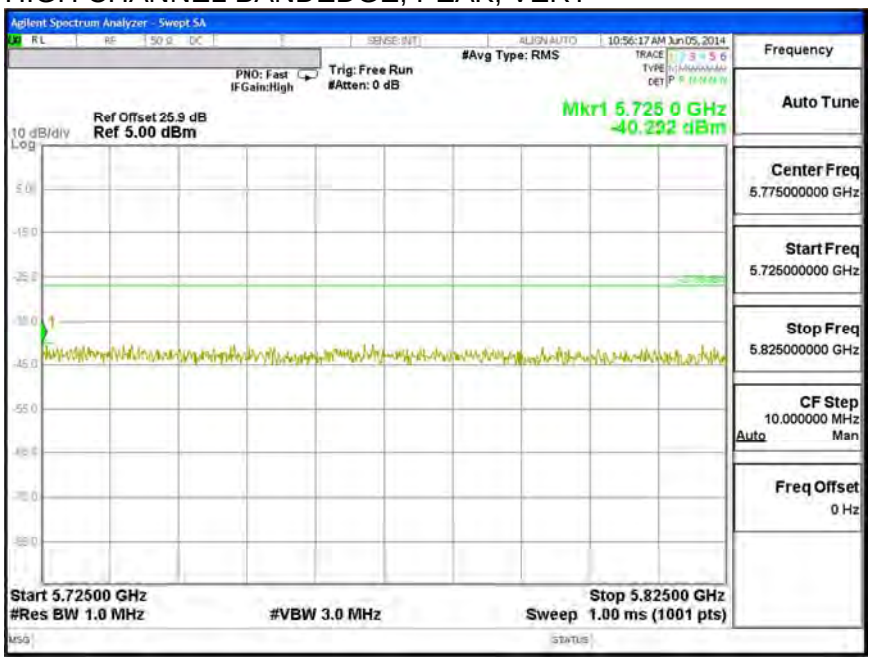


AUTHORIZED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL BANDEDGE, PEAK, HORIZ

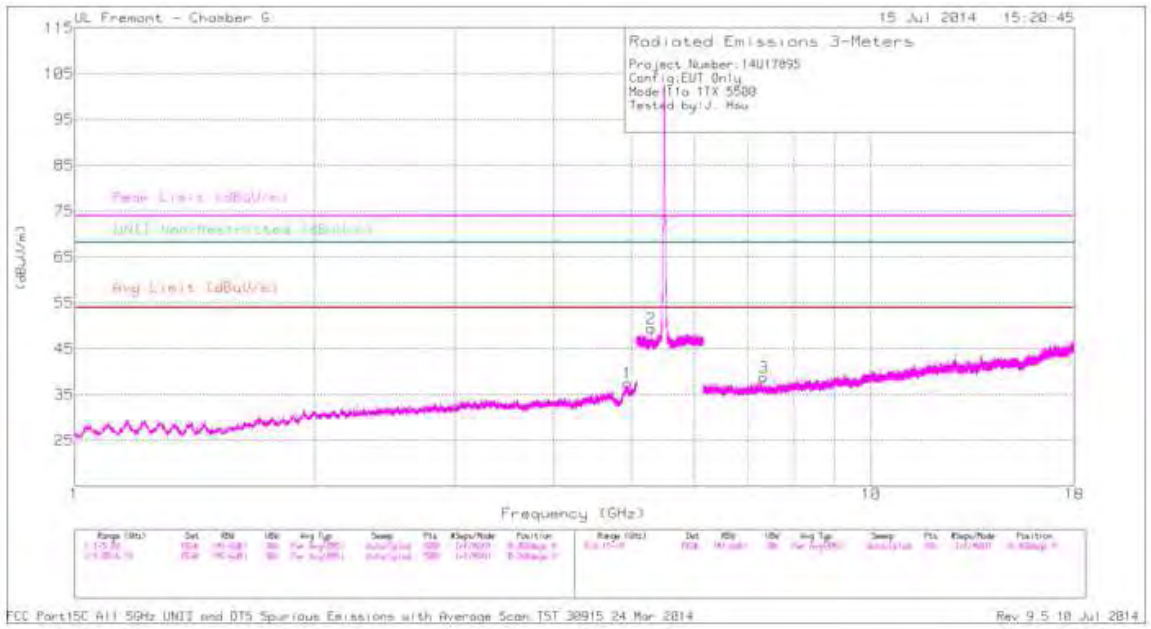


HIGH CHANNEL BANDEDGE, PEAK, VERT

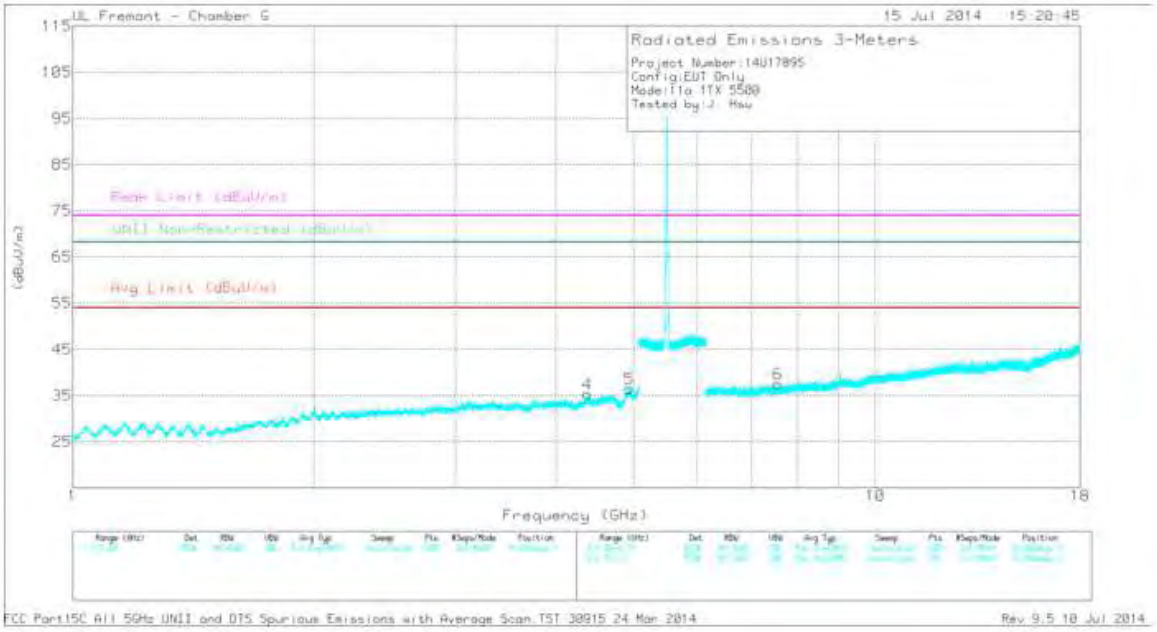


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT

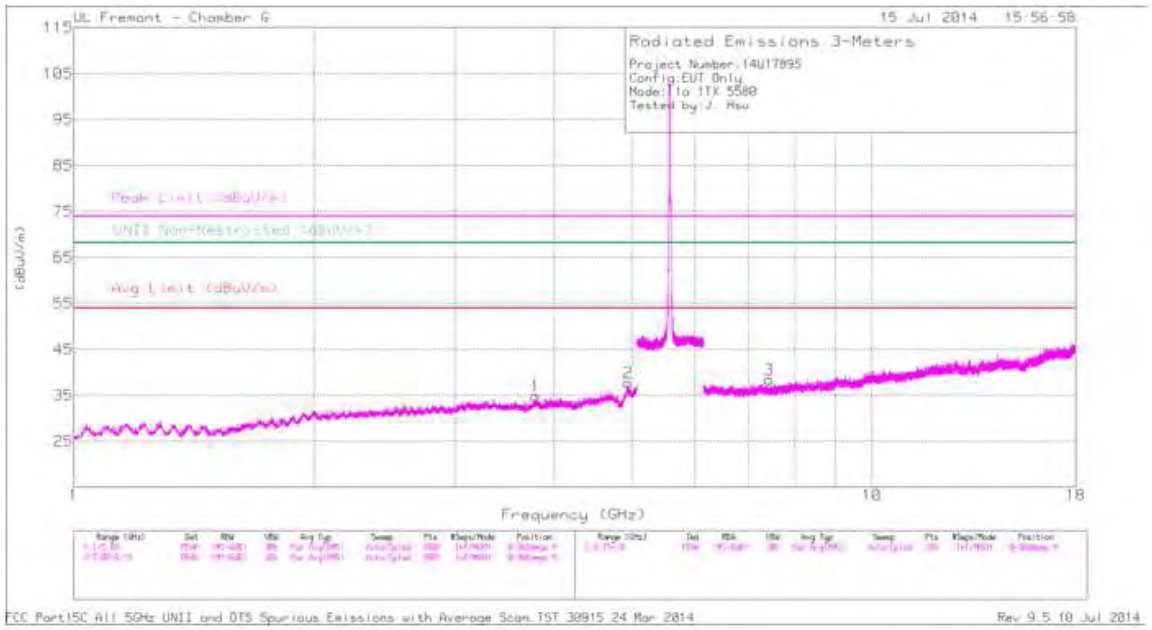


DATA

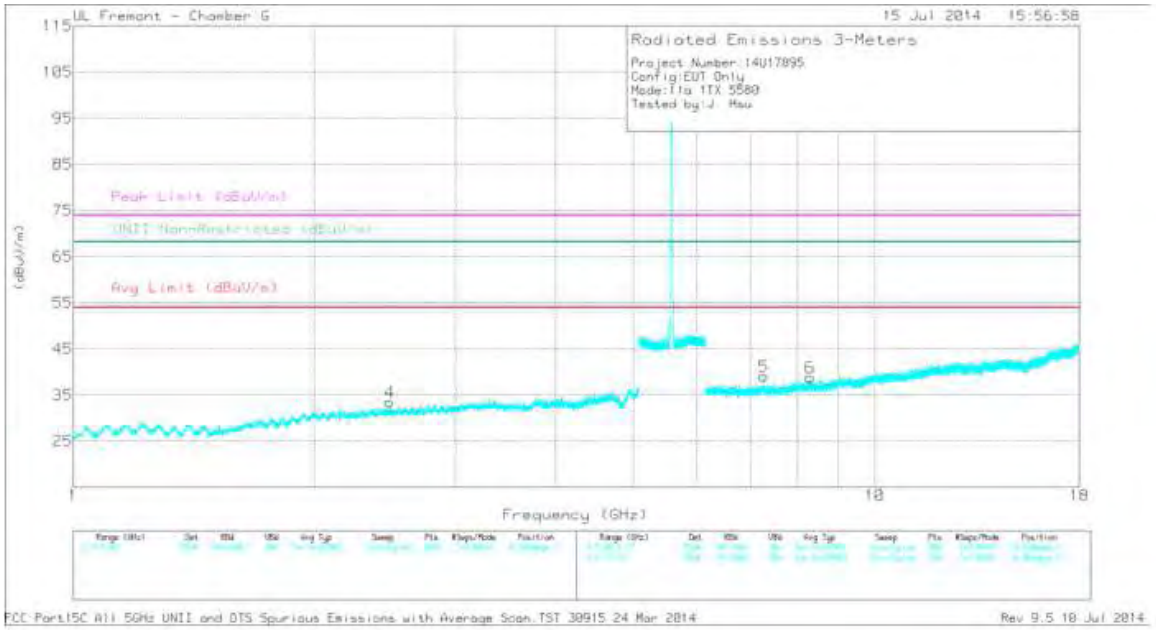
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.944	42.7	PK1	34.1	-31.7	45.1	-	-	74	-28.9	-	-	334	115	H
	* 4.944	31.78	AD1	34.1	-31.7	34.18	54	-19.82	-	-	-	-	334	115	H
4	* 4.376	40.94	PK1	33.6	-32.6	41.94	-	-	74	-32.06	-	-	315	151	V
	* 4.375	30.13	AD1	33.5	-32.7	30.93	54	-23.07	-	-	-	-	315	151	V
5	* 4.937	42.19	PK1	34.1	-31.7	44.59	-	-	74	-29.41	-	-	248	182	V
	* 4.939	30.62	AD1	34.1	-31.7	33.02	54	-20.98	-	-	-	-	248	182	V
3	* 7.334	41.45	PK1	35.6	-31.6	45.45	-	-	74	-28.55	-	-	360	102	H
	* 7.333	32.86	AD1	35.6	-31.6	36.86	54	-17.14	-	-	-	-	360	102	H
6	* 7.56	40.24	PK1	35.6	-30.9	44.94	-	-	74	-29.06	-	-	276	157	V
	* 7.56	29.23	AD1	35.6	-30.9	33.93	54	-20.07	-	-	-	-	276	157	V
2	5.3	45.47	PK1	34.5	-23.7	56.27	-	-	-	-	68.2	-11.93	321	114	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT

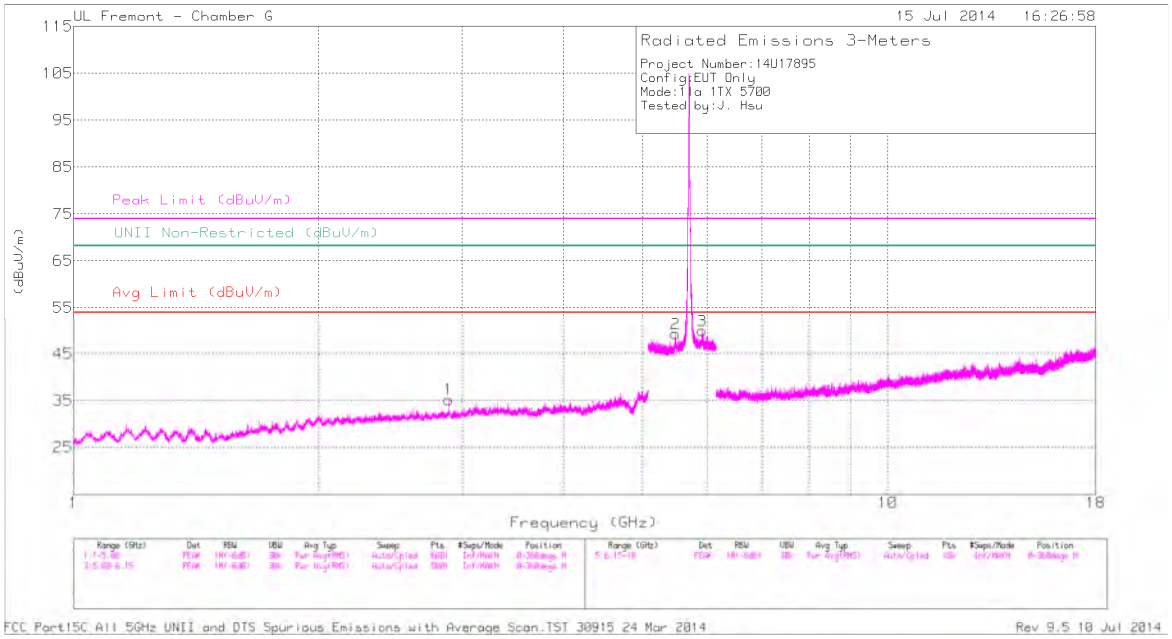


DATA

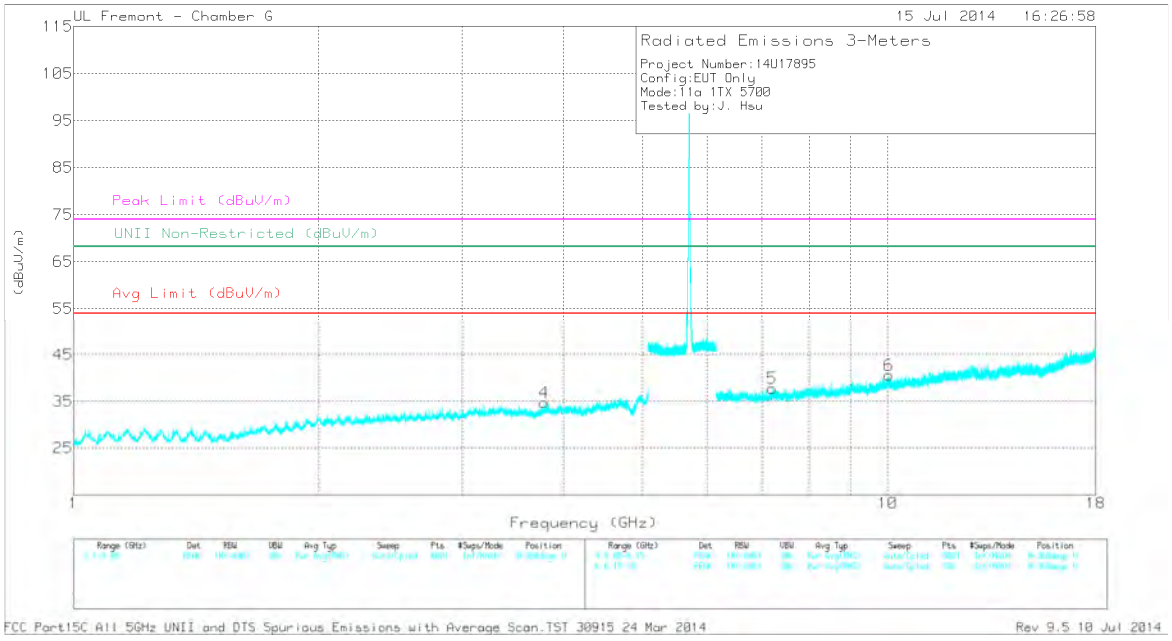
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.79	41.96	PK1	33	-33.5	41.46	-	-	74	-32.54	-	-	342	113	H
	* 3.792	31.21	AD1	33	-33.5	30.71	54	-23.29	-	-	-	-	342	113	H
2	* 4.943	40.82	PK1	34.1	-31.7	43.22	-	-	74	-30.78	-	-	301	160	H
	* 4.943	30.44	AD1	34.1	-31.7	32.84	54	-21.16	-	-	-	-	301	160	H
4	* 2.484	43.13	PK1	32	-34.5	40.63	-	-	74	-33.37	-	-	225	160	V
	* 2.484	31.49	AD1	32	-34.5	28.99	54	-25.01	-	-	-	-	225	160	V
3	* 7.441	40	PK1	35.6	-31.2	44.4	-	-	74	-29.6	-	-	246	200	H
	* 7.44	29.36	AD1	35.6	-31.2	33.76	54	-20.24	-	-	-	-	246	200	H
5	* 7.271	40.09	PK1	35.6	-31.3	44.39	-	-	74	-29.61	-	-	304	179	V
	* 7.271	29.8	AD1	35.6	-31.3	34.1	54	-19.9	-	-	-	-	304	179	V
6	* 8.308	39.35	PK1	35.8	-29.2	45.95	-	-	74	-28.05	-	-	260	158	V
	* 8.306	28.28	AD1	35.8	-29.2	34.88	54	-19.12	-	-	-	-	260	158	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

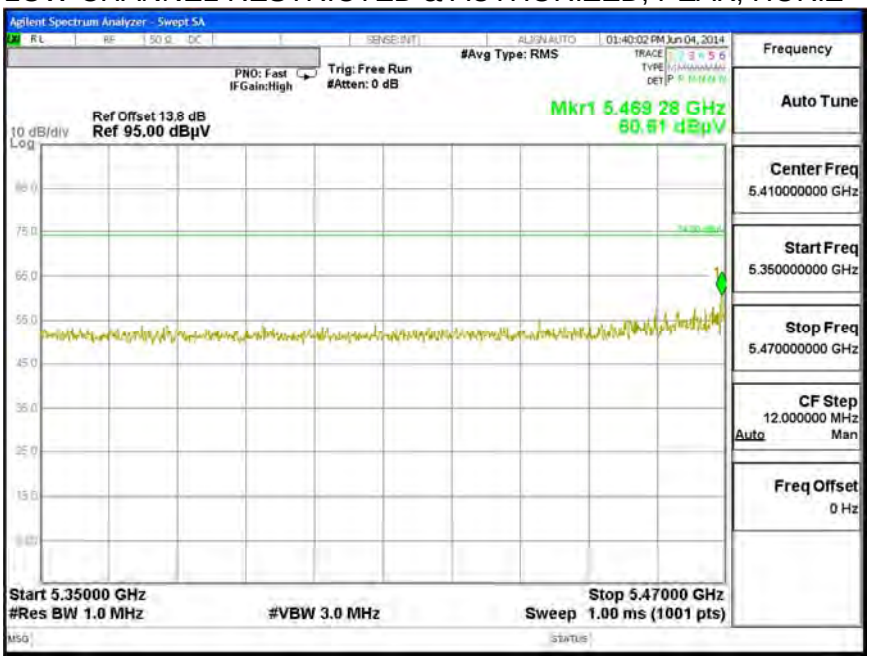
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.886	42.62	PK1	32.3	-34	40.92	-	-	74	-33.08	-	-	341	110	H
	* 2.888	31.25	AD1	32.3	-34	29.55	54	-24.45	-	-	-	-	341	110	H
4	* 3.785	42.59	PK1	33	-33.5	42.09	-	-	74	-31.91	-	-	291	134	V
	* 3.784	31.21	AD1	33	-33.5	30.71	54	-23.29	-	-	-	-	291	134	V
2	5.49	43.06	PK1	34.7	-23.5	54.26	-	-	-	-	68.2	-13.94	244	145	H
3	5.918	44.22	PK1	35.1	-23.6	55.72	-	-	-	-	68.2	-12.48	266	168	H
5	7.207	40.21	PK1	35.6	-31	44.81	-	-	-	-	68.2	-23.39	294	155	V
6	10.026	37.48	PK1	37.4	-27.3	47.58	-	-	-	-	68.2	-20.62	255	190	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

10.2.10. TX ABOVE 1 GHz 802.11n HT20 2Tx CDD MODE IN THE 5.6 GHz BAND

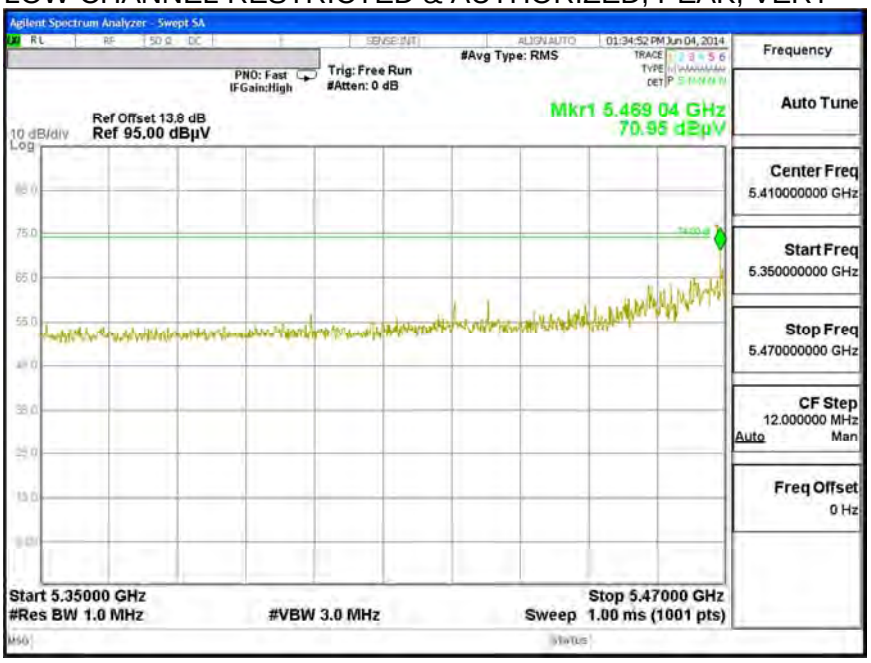
RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, HORIZ



LOW CHANNEL RESTRICTED, AVERAGE, HORIZ

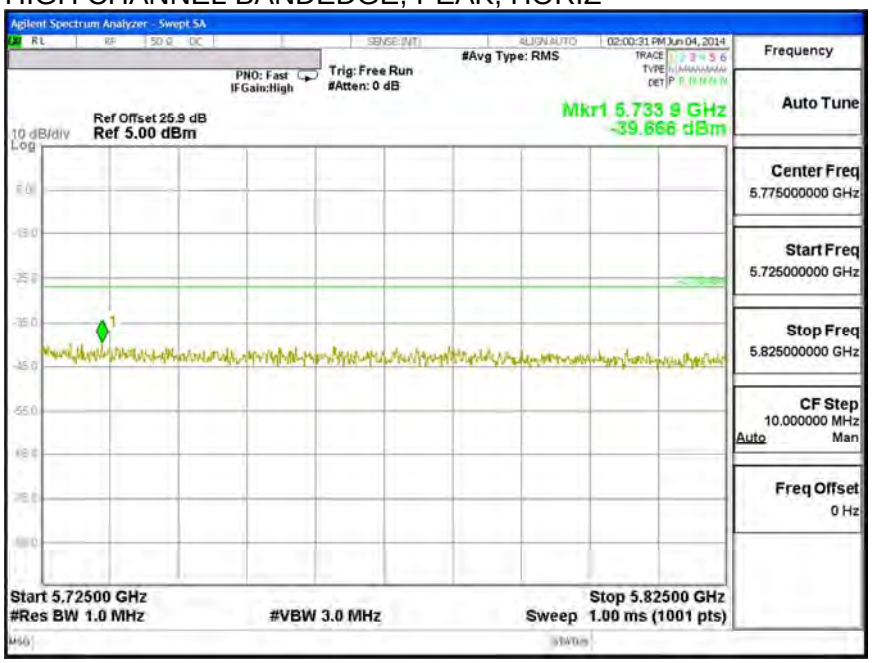
LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, VERT



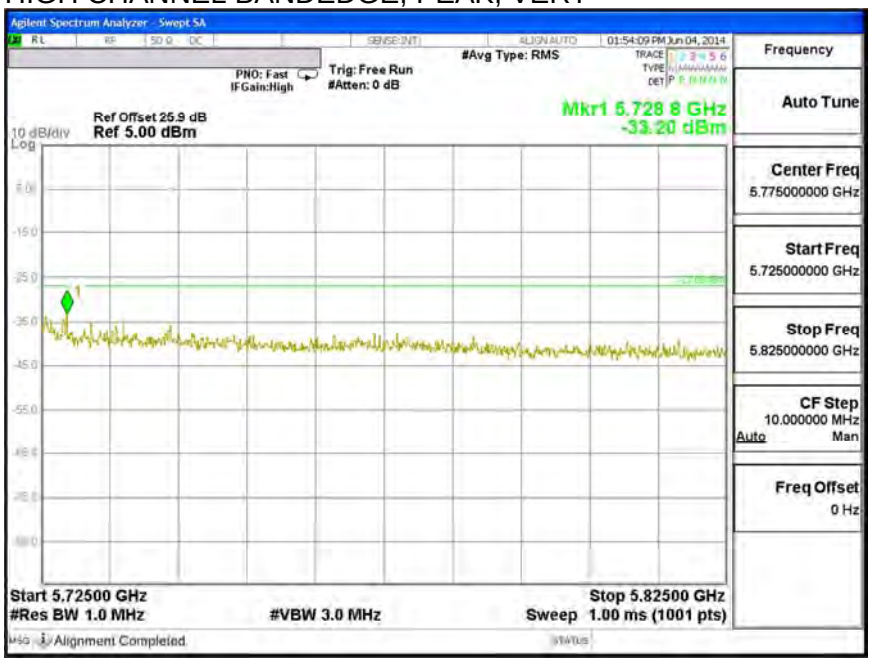
LOW CHANNEL RESTRICTED, AVERAGE, VERT

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL BANDEDGE, PEAK, HORIZ

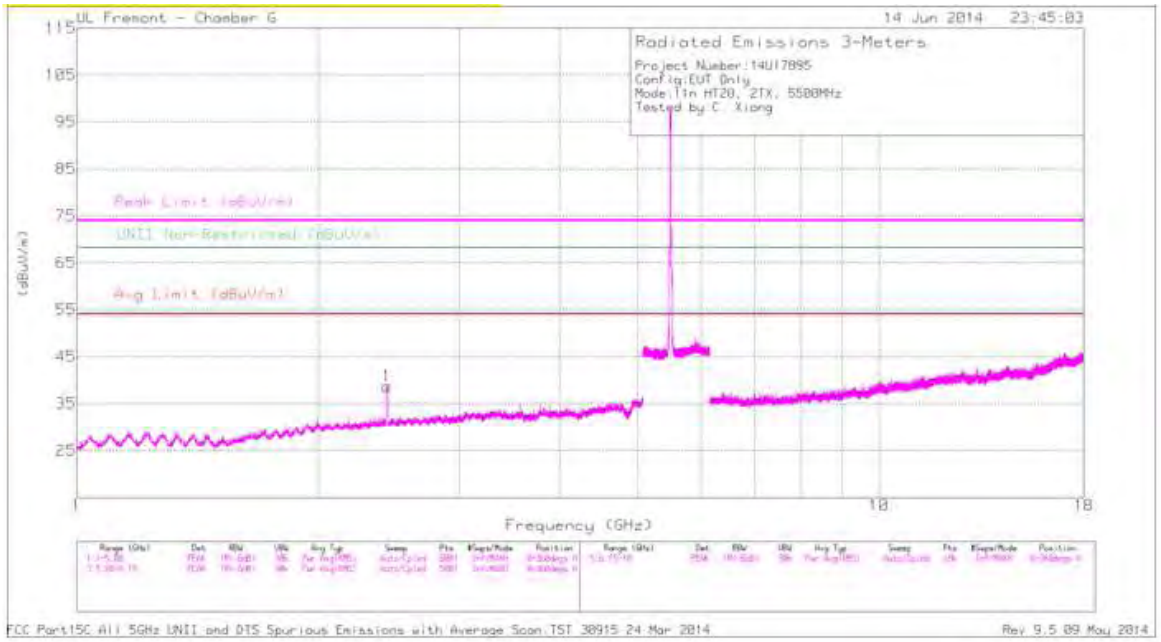


HIGH CHANNEL BANDEDGE, PEAK, VERT

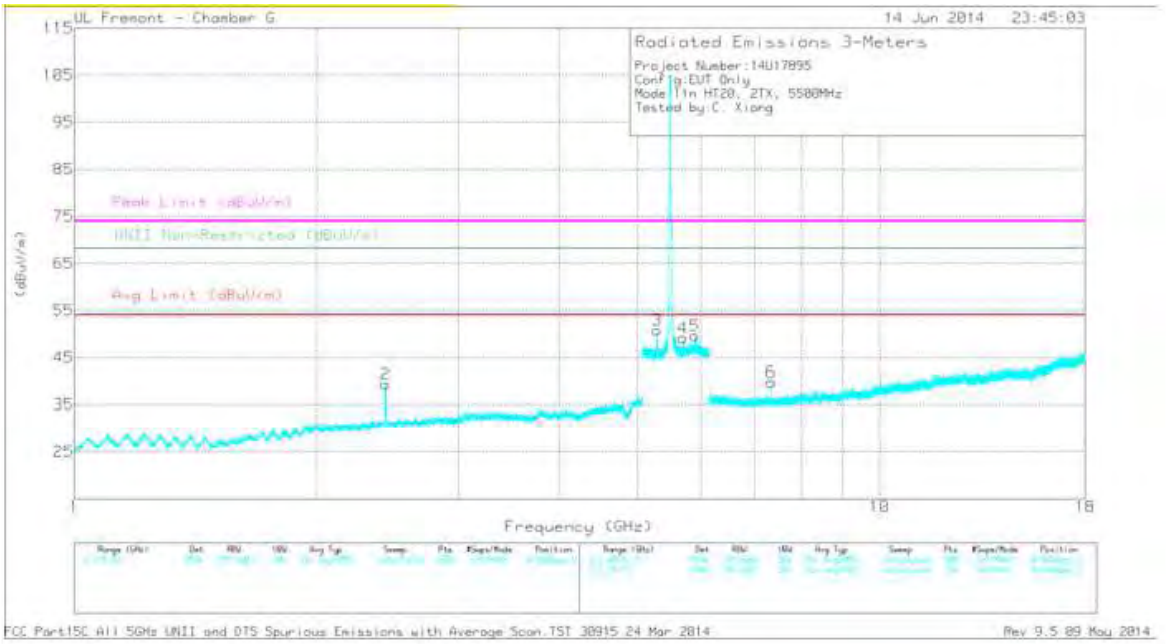


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT

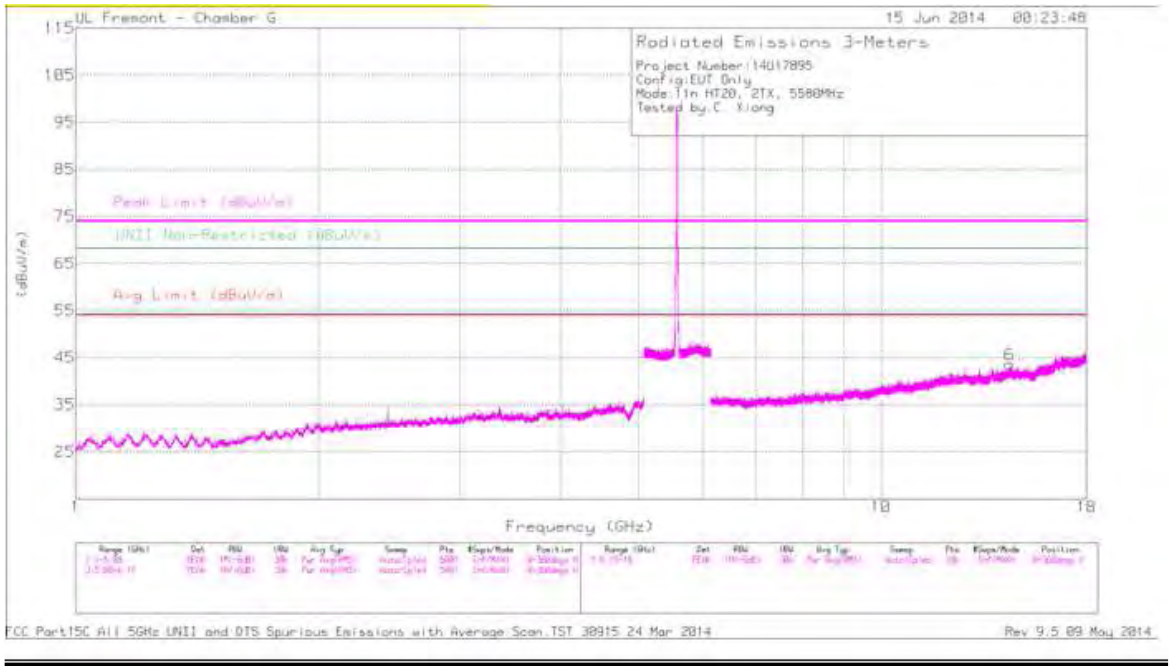


DATA

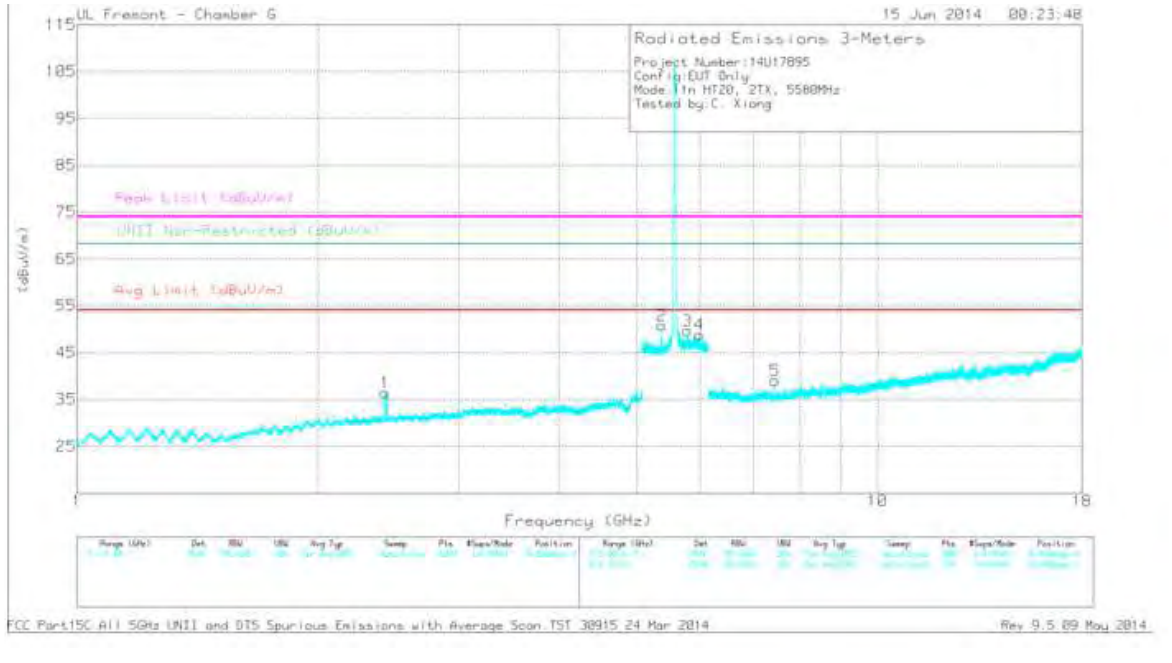
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 7.334	43.89	PK1	35.6	-31.6	0	47.89	-	-	74	-26.11	-	-	20	185	V
	* 7.333	36.59	AD1	35.6	-31.6	0	40.59	54	-13.41	-	-	-	-	20	185	V
1	2.433	48.1	PK1	31.9	-34.6	0	45.4	-	-	-	-	68.2	-22.8	148	222	H
2	2.434	48.69	PK1	31.9	-34.6	0	45.99	-	-	-	-	68.2	-22.21	319	169	V
3	5.289	46.27	PK1	34.5	-23.7	0	57.07	-	-	-	-	68.2	-11.13	38	202	V
4	5.705	46.02	PK1	34.8	-23.6	0	57.22	-	-	-	-	68.2	-10.98	47	167	V
5	5.906	44.99	PK1	35.1	-23.6	0	56.49	-	-	-	-	68.2	-11.71	63	211	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT

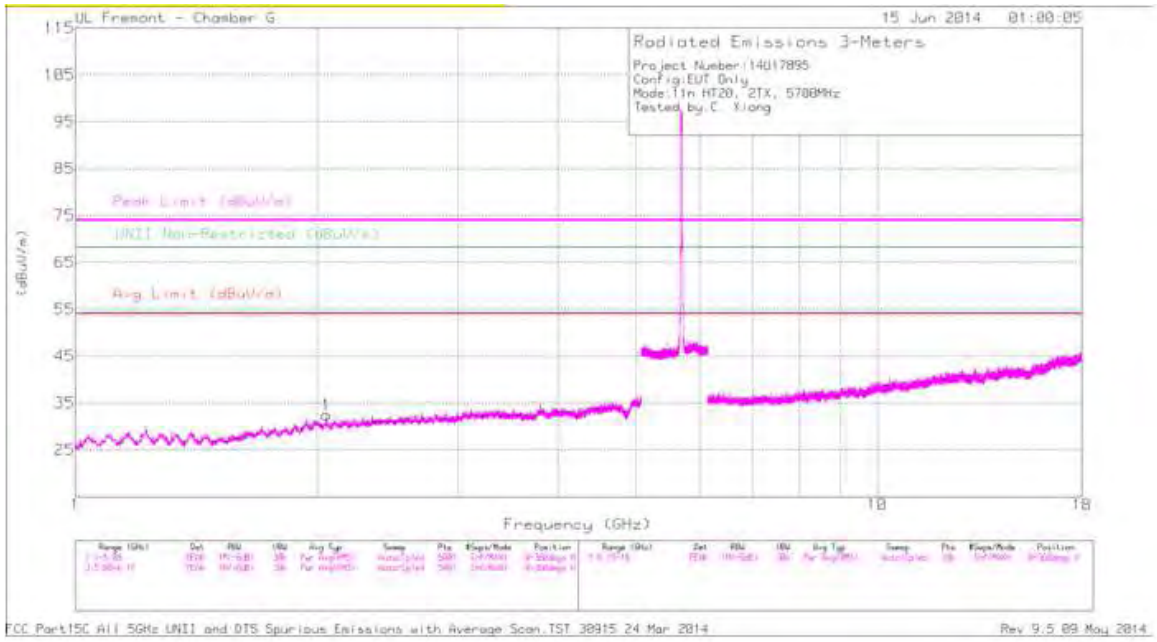


DATA

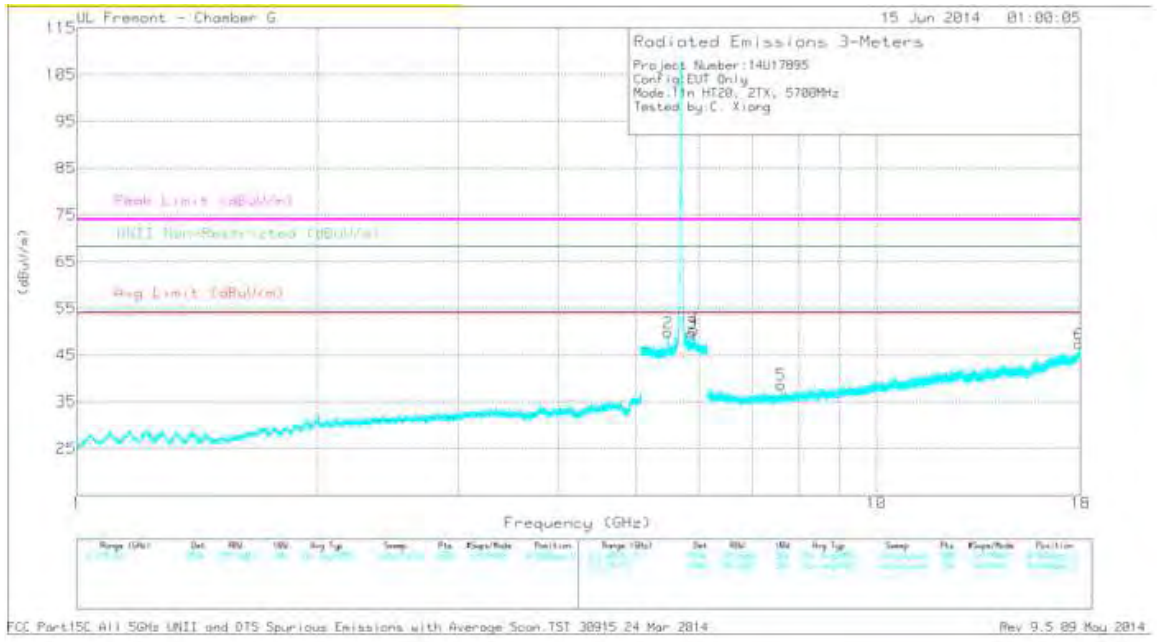
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.373	46.89	PK1	34.6	-23.7	0	57.79	-	-	74	-16.21	-	-	17	194	V
	* 5.373	37.63	AD1	34.6	-23.7	0	48.53	54	-5.47	-	-	-	-	17	194	V
5	* 7.44	42.67	PK1	35.6	-31.2	0	47.07	-	-	74	-26.93	-	-	25	187	V
	* 7.44	35.19	AD1	35.6	-31.2	0	39.59	54	-14.41	-	-	-	-	25	187	V
1	2.422	43.07	PK1	31.8	-34.4	0	40.47	-	-	-	-	68.2	-27.73	309	132	V
3	5.789	46.17	PK1	34.9	-23.5	0	57.57	-	-	-	-	68.2	-10.63	23	196	V
4	5.988	44.6	PK1	35.2	-23.6	0	56.2	-	-	-	-	68.2	-12	23	196	V
6	14.455	38.04	PK1	40	-27.5	0	50.54	-	-	-	-	68.2	-17.66	100	155	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

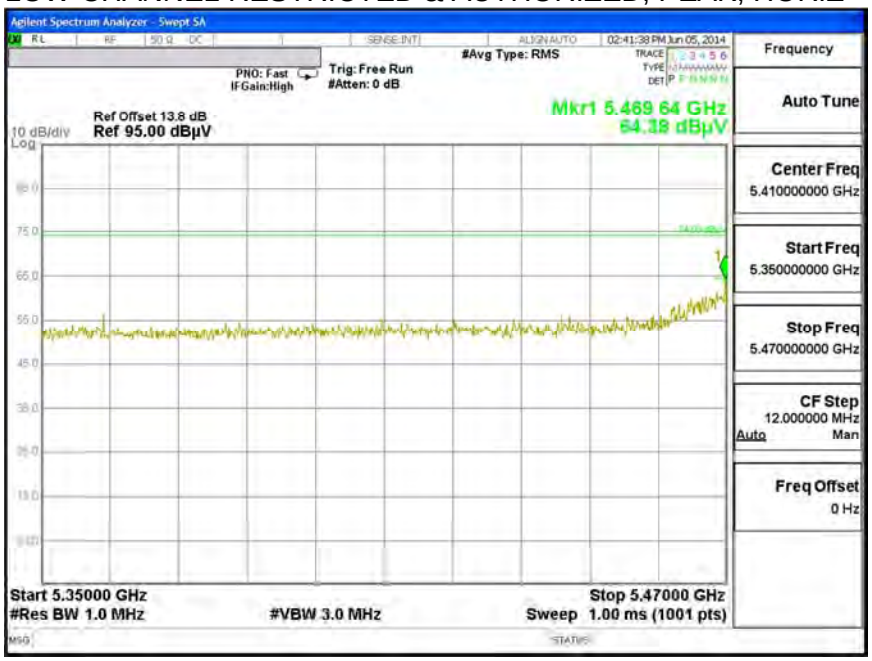
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 7.6	41.03	PK1	35.6	-31	0	45.63	-	-	74	-28.37	-	-	336	214	V
	* 7.6	31.96	AD1	35.6	-31	0	36.56	54	-17.44	-	-	-	-	336	214	V
6	* 17.935	35.1	PK1	41.8	-23.2	0	53.7	-	-	74	-20.3	-	-	136	154	V
	* 17.923	23.83	AD1	41.8	-23.1	0	42.53	54	-11.47	-	-	-	-	136	154	V
1	2.048	44.08	PK1	31.3	-34.9	0	40.48	-	-	-	-	68.2	-27.72	304	201	H
2	5.489	45.99	PK1	34.7	-23.5	0	57.19	-	-	-	-	68.2	-11.01	30	231	V
3	5.892	42.85	PK1	35	-23.6	0	54.25	-	-	-	-	68.2	-13.95	22	198	V
4	5.911	46.38	PK1	35.1	-23.6	0	57.88	-	-	-	-	68.2	-10.32	16	202	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

10.2.11. TX ABOVE 1 GHz 802.11n HT40 1Tx MODE IN THE 5.6 GHz BAND

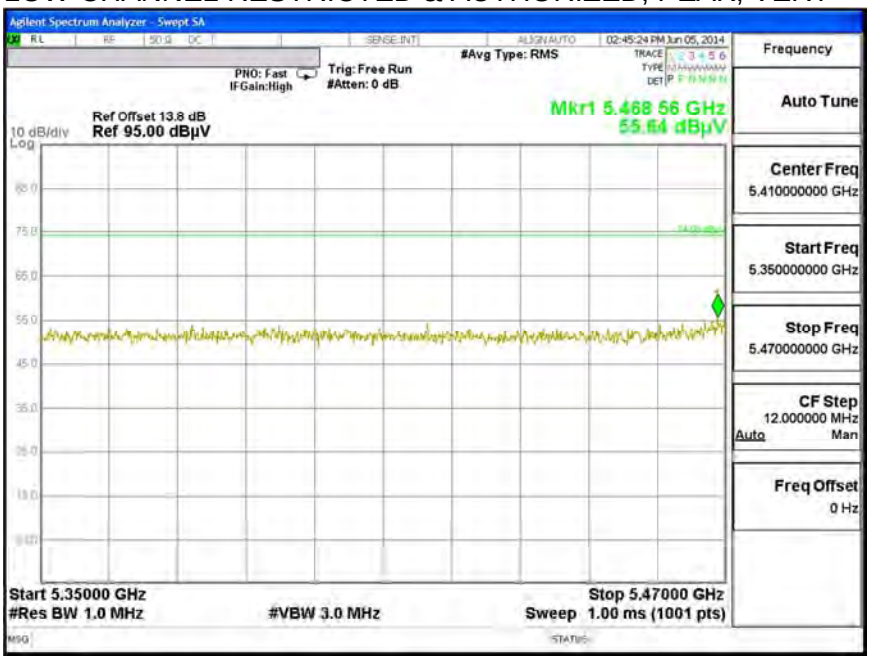
RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, HORIZ

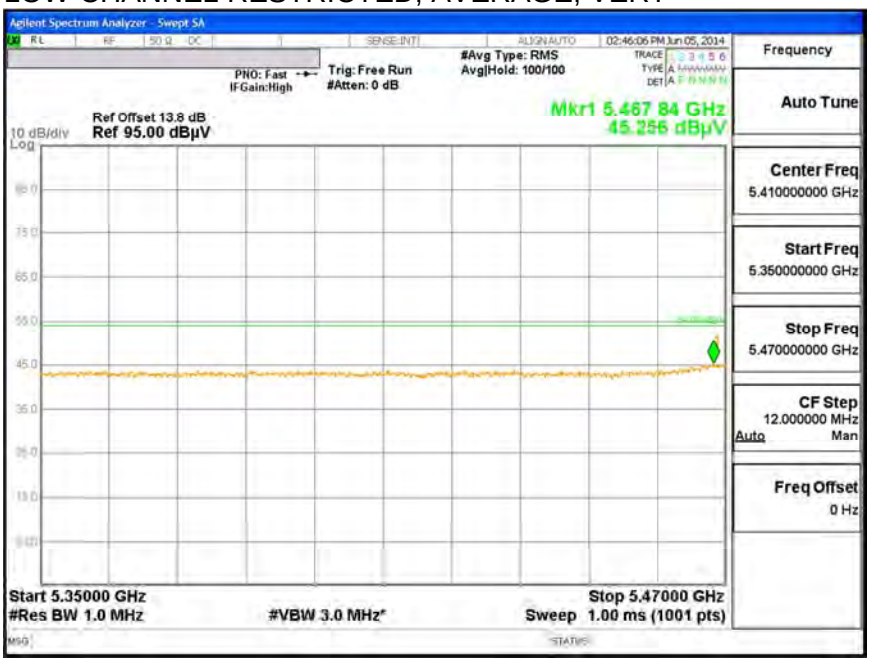


LOW CHANNEL RESTRICTED, AVERAGE, HORIZ

LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, VERT

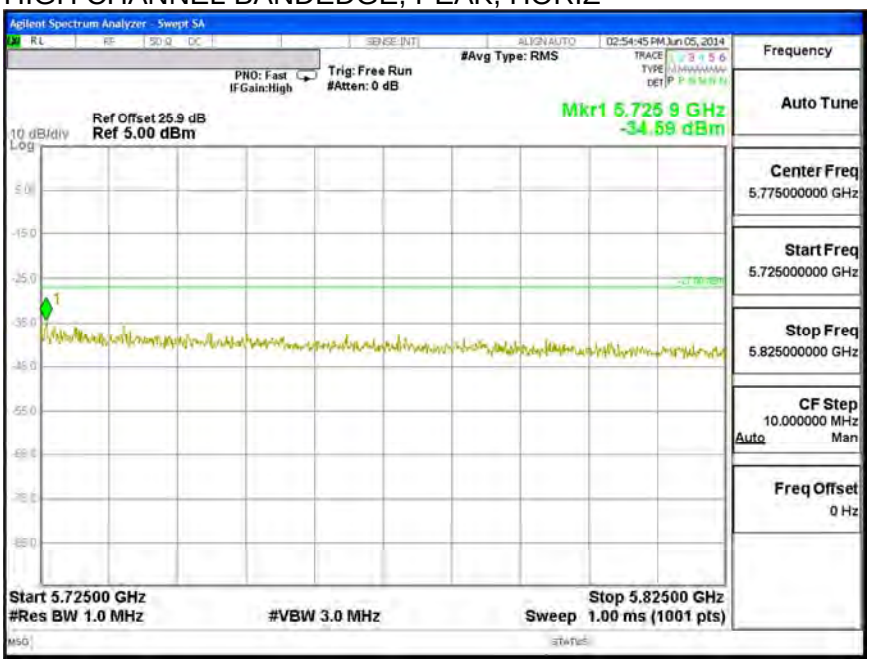


LOW CHANNEL RESTRICTED, AVERAGE, VERT

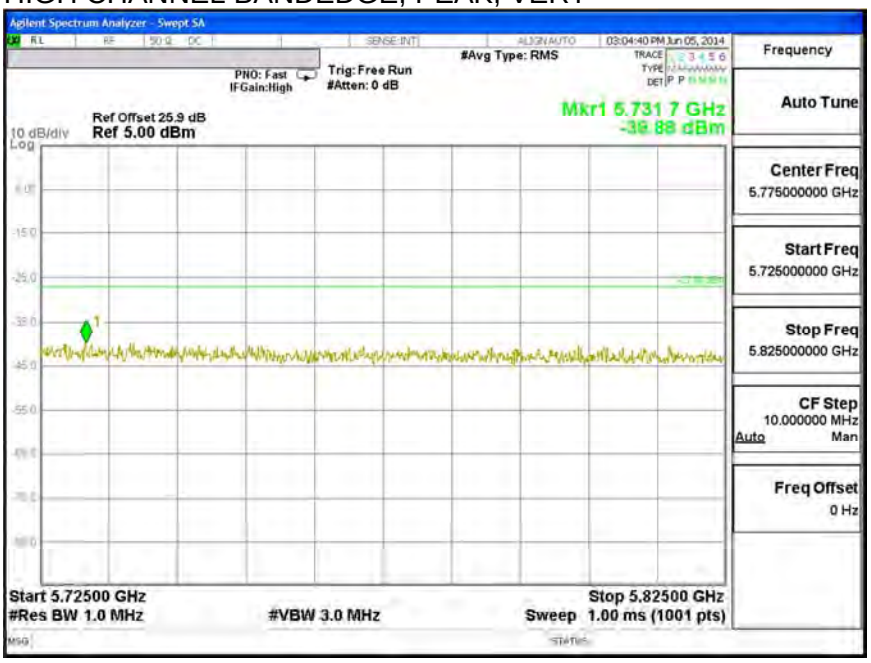


AUTHORIZED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL BANDEDGE, PEAK, HORIZ

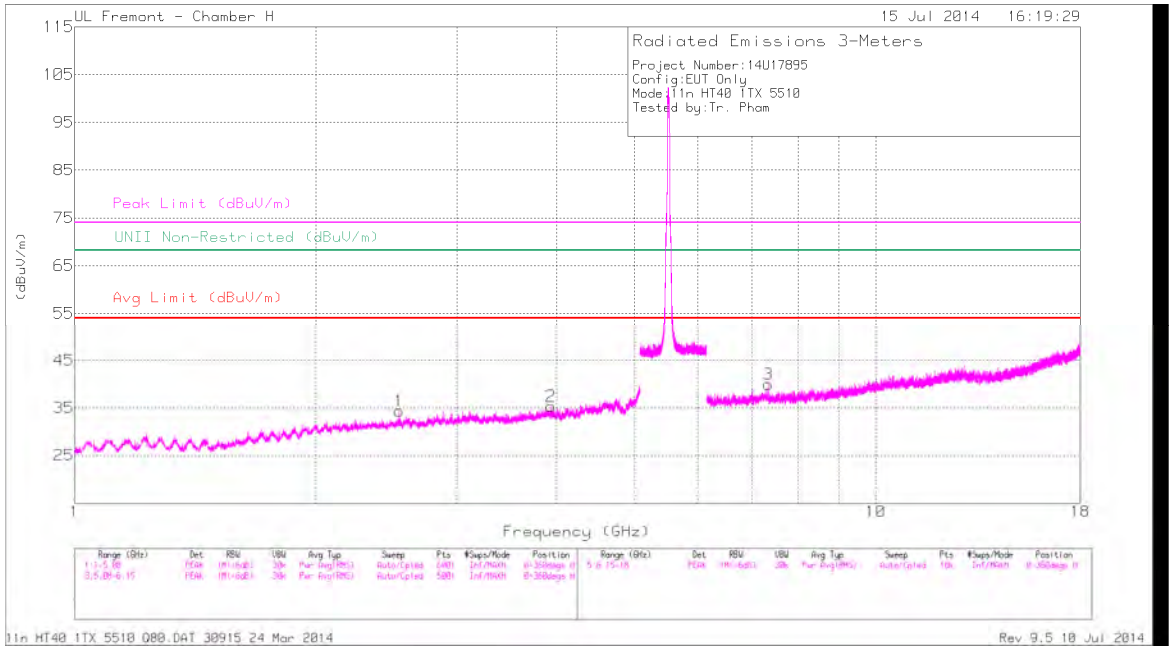


HIGH CHANNEL BANDEDGE, PEAK, VERT

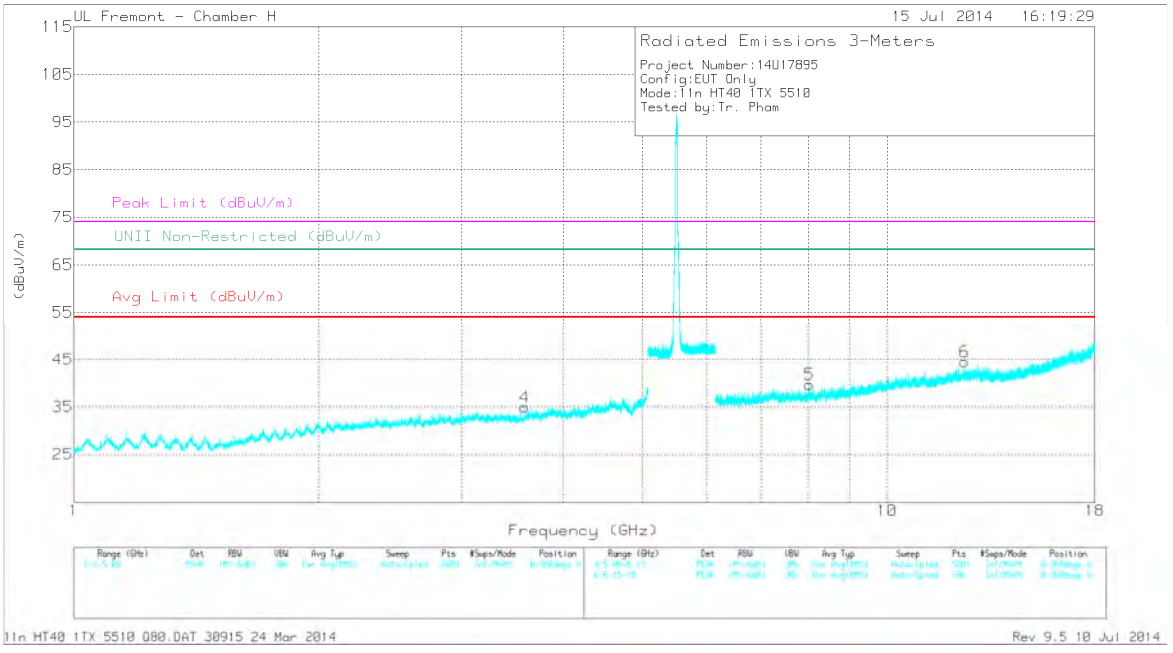


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT



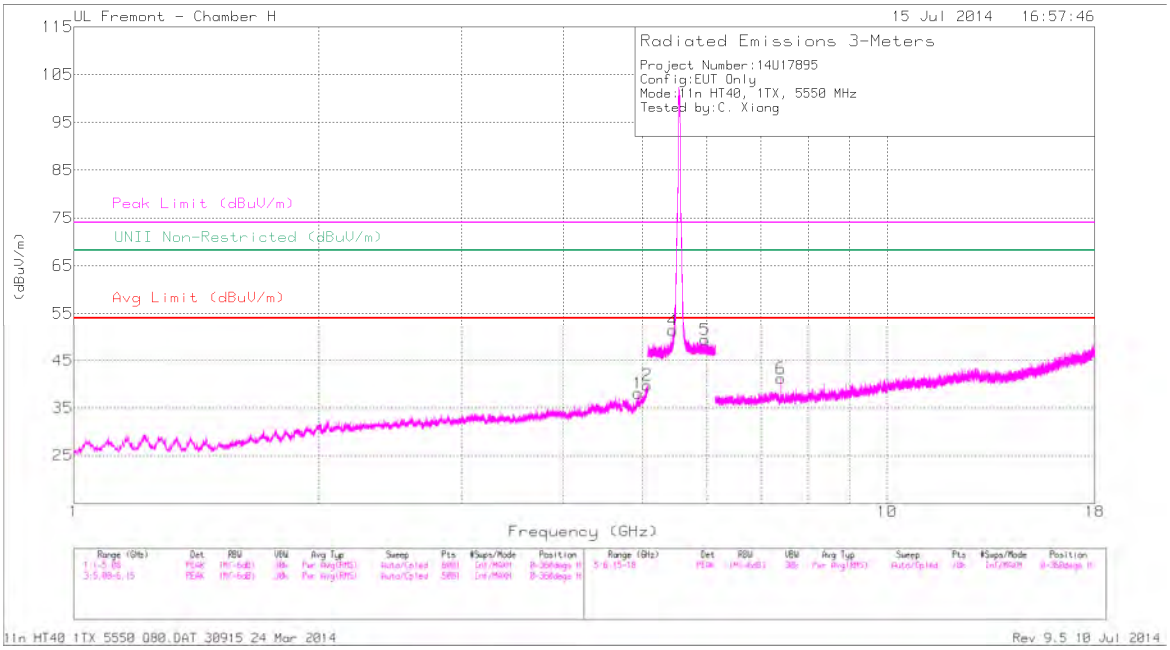
DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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	* 3.933	41.95	PK1	33.4	-32.6	42.75	-	-	74	-31.25	-	-	329	136	H
	* 3.932	30.54	AD1	33.4	-32.6	31.34	54	-22.66	-	-	-	-	329	136	H
4	* 3.587	41.87	PK1	32.9	-32.9	41.87	-	-	74	-32.13	-	-	298	167	V
	* 3.589	30.31	AD1	32.9	-33	30.21	54	-23.79	-	-	-	-	298	167	V
3	* 7.346	41.35	PK1	36.2	-29.9	47.65	-	-	74	-26.35	-	-	298	124	H
	* 7.347	32.05	AD1	36.2	-29.9	38.35	54	-15.65	-	-	-	-	298	124	H
6	* 12.453	37.66	PK1	39.1	-25.5	51.26	-	-	74	-22.74	-	-	272	202	V
	* 12.452	25.96	AD1	39.1	-25.5	39.56	54	-14.44	-	-	-	-	272	202	V
1	2.542	42.18	PK1	32.2	-33.8	40.58	-	-	-	-	68.2	-27.62	360	100	H
5	8.022	39.62	PK1	36	-28.7	46.92	-	-	-	-	68.2	-21.28	325	173	V

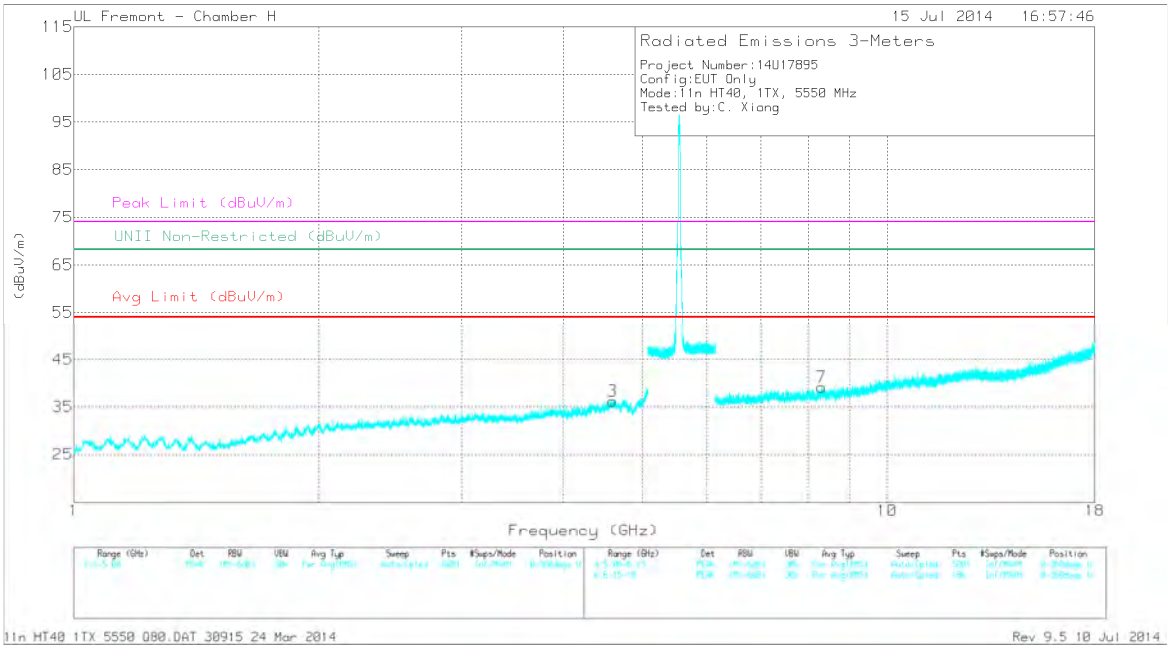
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT

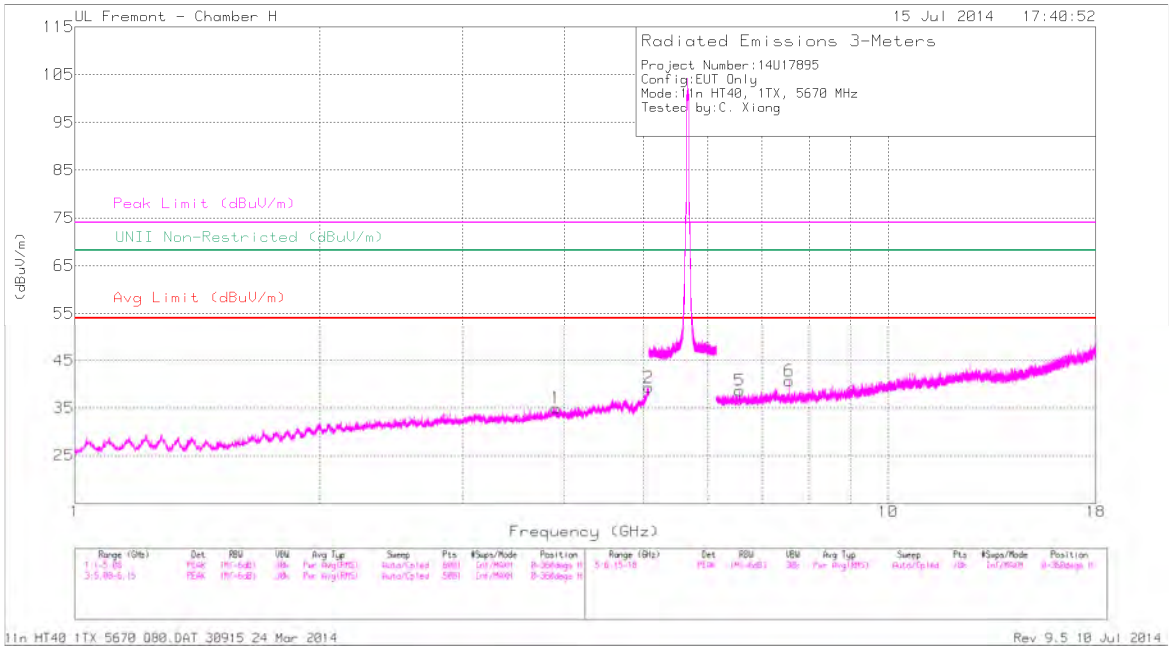


Trace Markers

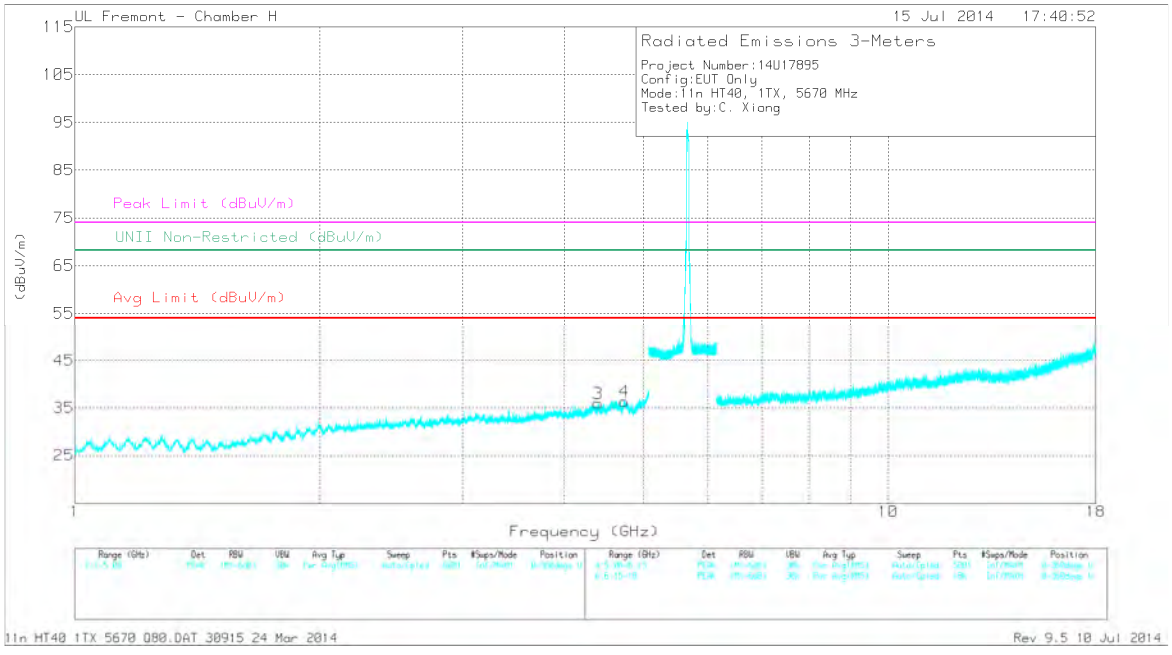
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.938	41.35	PK1	34.3	-30.9	0	44.75	-	-	74	-29.25	-	-	351	122	H
	* 4.939	30.21	AD1	34.3	-30.9	.13	33.74	54	-20.26	-	-	-	-	351	122	H
2	* 5.072	42.14	PK1	34.4	-28.7	0	47.84	-	-	74	-26.16	-	-	315	181	H
	* 5.06	30.3	AD1	34.4	-29.2	.13	35.63	54	-18.37	-	-	-	-	315	181	H
3	* 4.606	41.96	PK1	34.1	-31.8	0	44.26	-	-	74	-29.74	-	-	243	158	V
	* 4.594	30.77	AD1	34.1	-31.8	.13	33.2	54	-20.8	-	-	-	-	243	158	V
4	* 5.449	44.95	PK1	35	-22.5	0	57.45	-	-	74	-16.55	-	-	335	212	H
	* 5.449	33.7	AD1	35	-22.5	.13	46.33	54	-7.67	-	-	-	-	335	212	H
6	* 7.4	42.26	PK1	36.1	-30.1	0	48.26	-	-	74	-25.74	-	-	298	110	H
	* 7.4	33.71	AD1	36.1	-30.1	.13	39.84	54	-14.16	-	-	-	-	298	110	H
7	* 8.317	38.53	PK1	36.1	-27.2	0	47.43	-	-	74	-26.57	-	-	328	392	V
	* 8.319	26.45	AD1	36.1	-27.3	.13	35.38	54	-18.62	-	-	-	-	328	392	V
5	5.973	42.66	PK1	35.2	-22.2	0	55.66	-	-	-	-	68.2	-12.54	318	240	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

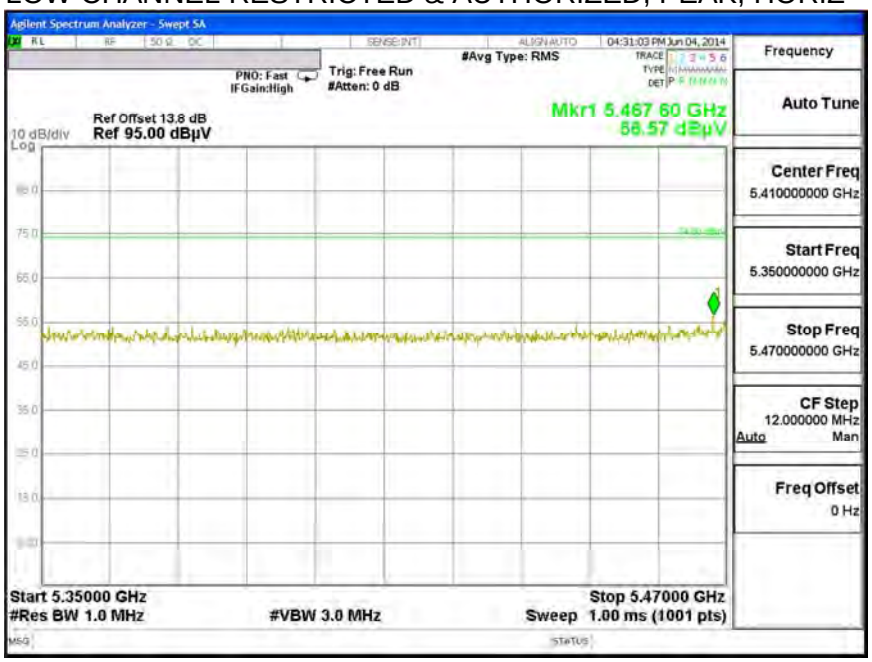
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.908	42.42	PK1	33.4	-33	0	42.82	-	-	74	-31.18	-	-	163	175	H
	* 3.906	31.35	AD1	33.4	-33	.13	31.88	54	-22.12	-	-	-	-	163	175	H
2	* 5.068	41.79	PK1	34.4	-28.9	0	47.29	-	-	74	-26.71	-	-	321	163	H
	* 5.069	30.41	AD1	34.4	-28.8	.13	36.14	54	-17.86	-	-	-	-	321	163	H
3	* 4.4	42	PK1	33.8	-31.4	0	44.4	-	-	74	-29.6	-	-	234	255	V
	* 4.4	30.08	AD1	33.8	-31.4	.13	32.61	54	-21.39	-	-	-	-	234	255	V
4	* 4.737	41.33	PK1	34.3	-31.5	0	44.13	-	-	74	-29.87	-	-	289	241	V
	* 4.742	30.63	AD1	34.3	-31.6	.13	33.46	54	-20.54	-	-	-	-	289	241	V
6	* 7.56	40.54	PK1	36.1	-29.2	0	47.44	-	-	74	-26.56	-	-	325	100	H
	* 7.56	31.52	AD1	36.1	-29.2	.13	38.55	54	-15.45	-	-	-	-	325	100	H
5	6.568	40.29	PK1	35.7	-30.7	0	45.29	-	-	-	-	68.2	-22.91	299	218	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

10.2.12. TX ABOVE 1 802.11n HT40 2Tx CDD MODE IN THE 5.6 GHz BAND

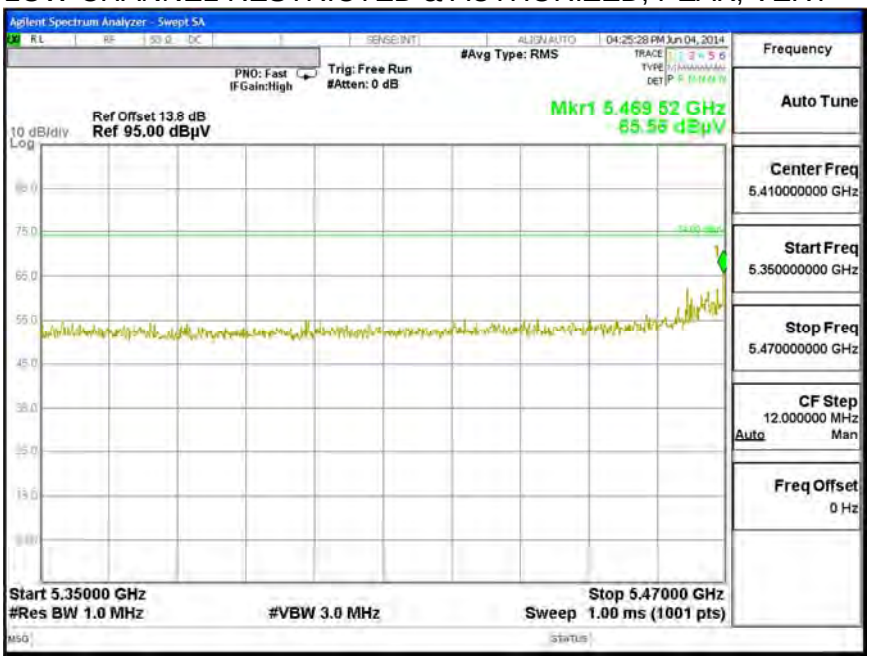
RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, HORIZ



LOW CHANNEL RESTRICTED, AVERAGE, HORIZ

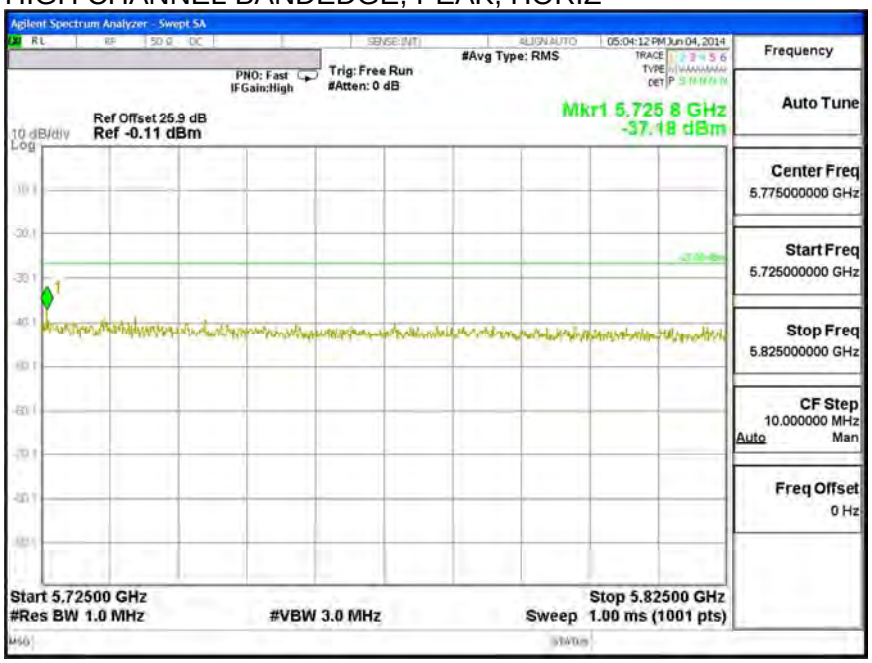
LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, VERT



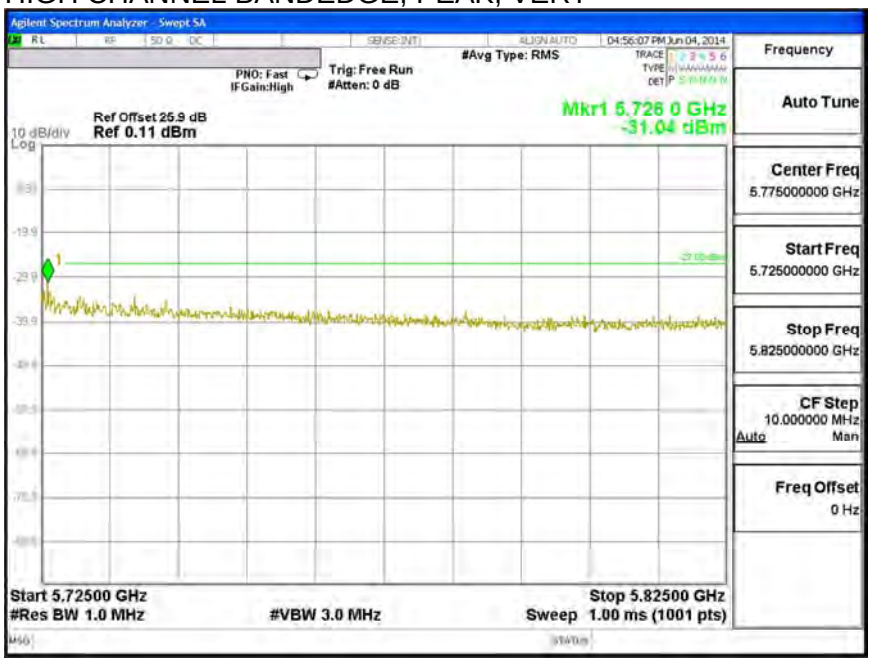
LOW CHANNEL RESTRICTED, AVERAGE, VERT

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL BANDEDGE, PEAK, HORIZ

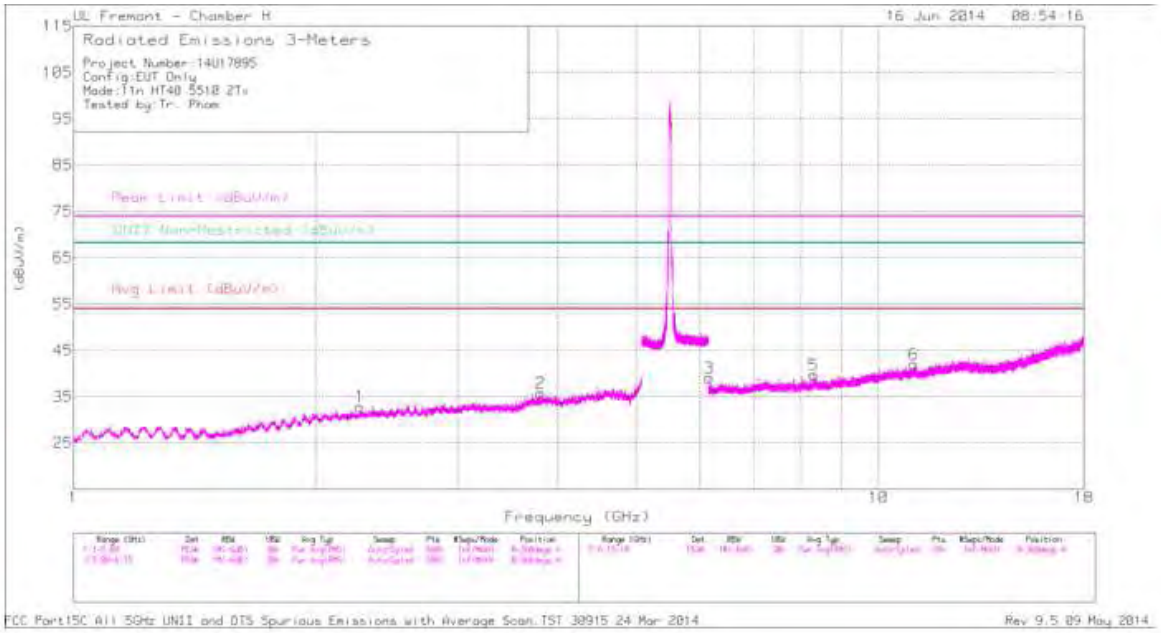


HIGH CHANNEL BANDEDGE, PEAK, VERT

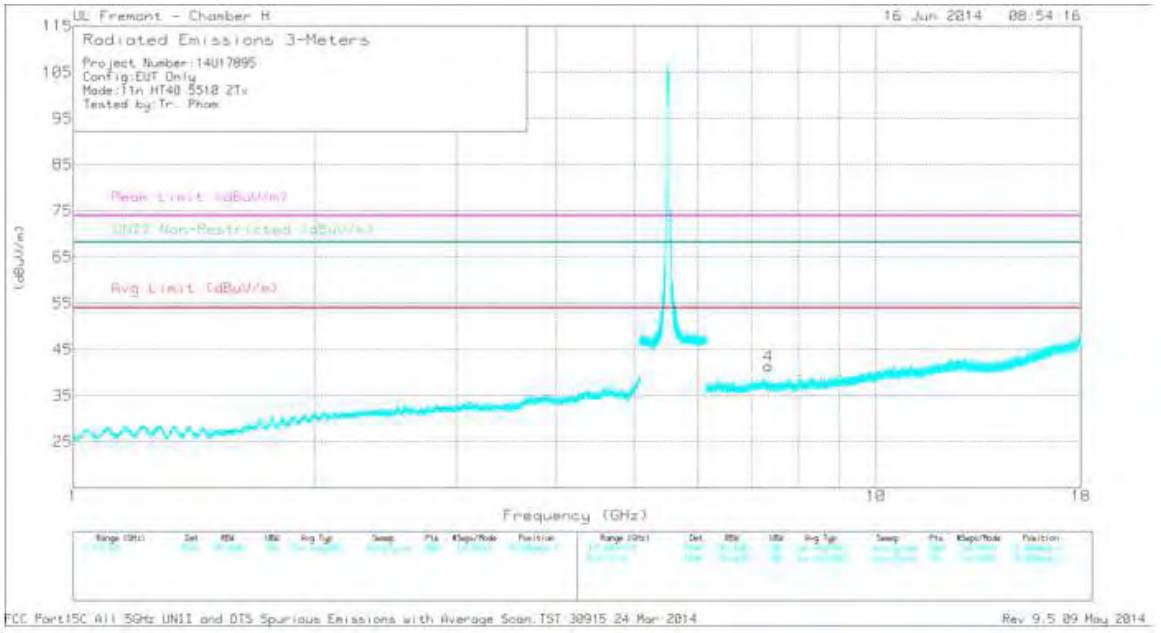


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT

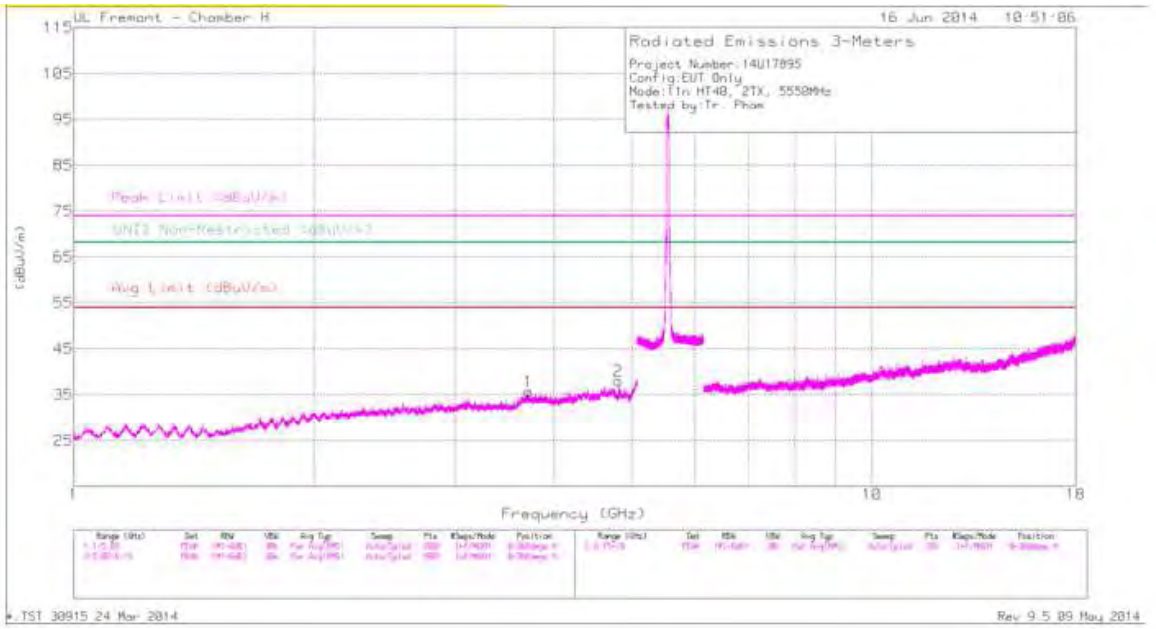


DATA

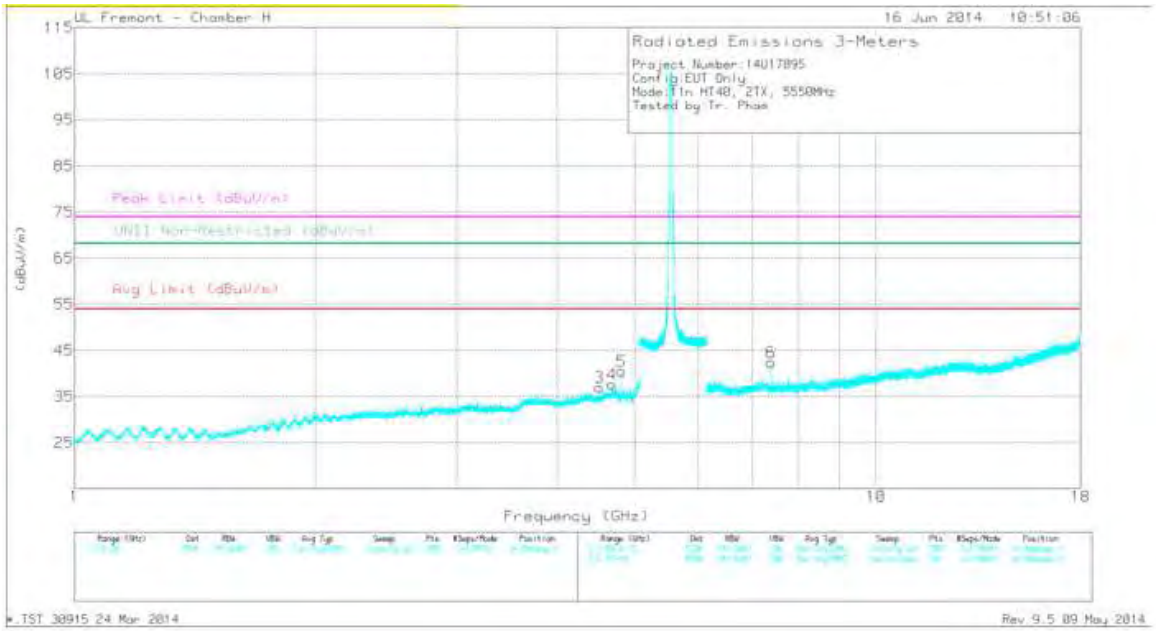
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.27	43.13	PK1	31.7	-34.2	40.63	-	-	74	-33.37	-	-	263	325	H
	* 2.27	30.91	AD1	31.7	-34.2	28.41	54	-25.59	-	-	-	-	263	325	H
2	* 3.804	42.89	PK1	33.3	-32.8	43.39	-	-	74	-30.61	-	-	237	100	H
	* 3.805	30.8	AD1	33.3	-32.8	31.3	54	-22.7	-	-	-	-	237	100	H
5	* 8.312	38.81	PK1	36.1	-27.1	47.81	-	-	74	-26.19	-	-	237	179	H
	* 8.313	26.61	AD1	36.1	-27.1	35.61	54	-18.39	-	-	-	-	237	179	H
6	* 11.067	37.23	PK1	37.8	-25.1	49.93	-	-	74	-24.07	-	-	237	225	H
	* 11.067	25.27	AD1	37.8	-25.1	37.97	54	-16.03	-	-	-	-	237	225	H
4	* 7.347	35.07	PK	36.2	-29.9	41.37	-	-	74	-32.63	-	-	0-360	201	V
3	6.162	40.96	PK1	35.3	-30.5	45.76	-	-	-	-	68.2	-22.44	237	393	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT

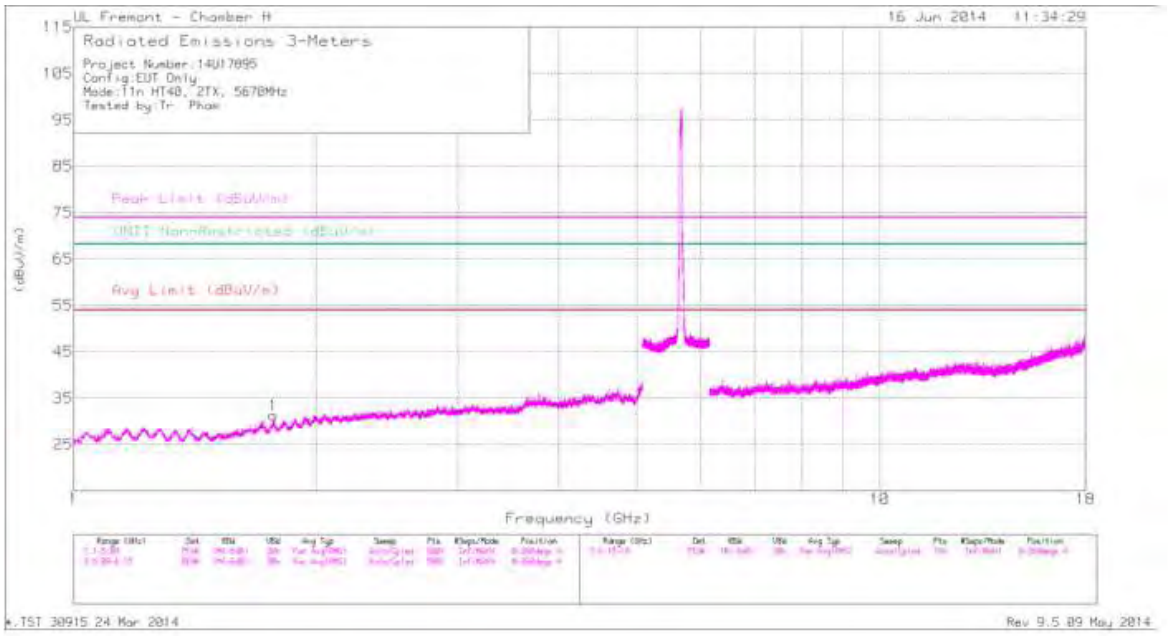


DATA

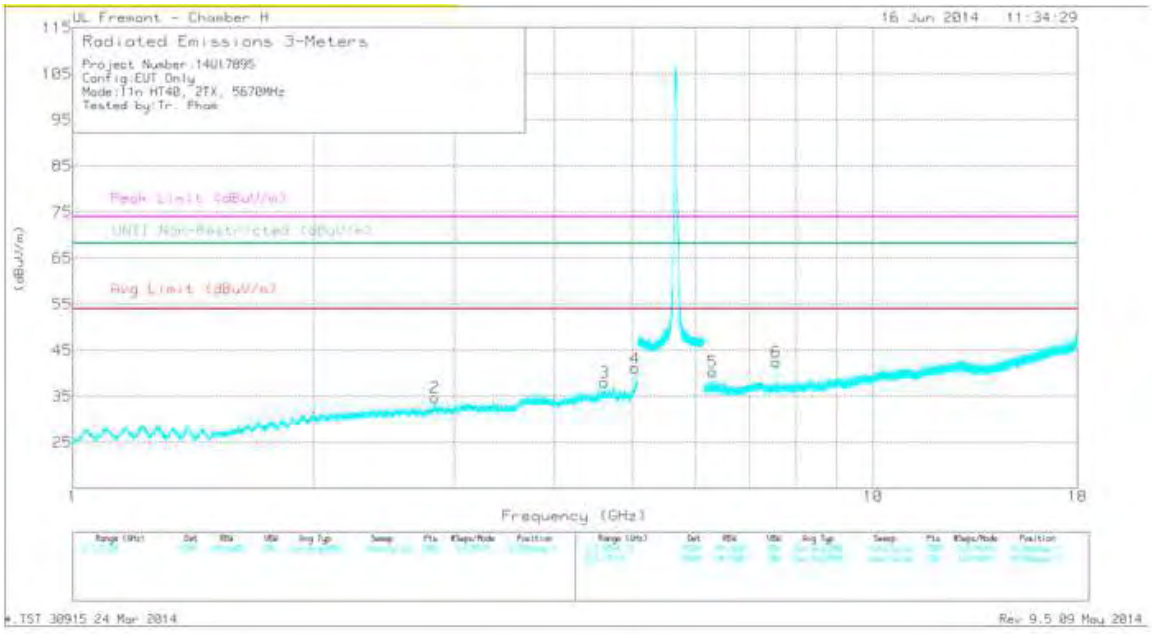
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.711	42.52	PK1	33.1	-32.6	43.02	-	-	74	-30.98	-	-	65	331	H
	* 3.711	30.48	AD1	33.1	-32.6	30.98	54	-23.02	-	-	-	-	65	331	H
2	* 4.81	44.14	PK1	34.3	-32	46.44	-	-	74	-27.56	-	-	266	273	H
	* 4.81	35.48	AD1	34.3	-32	37.78	54	-16.22	-	-	-	-	266	273	H
3	* 4.512	43.28	PK1	34	-32.5	44.78	-	-	74	-29.22	-	-	249	357	V
	* 4.513	30.76	AD1	34	-32.5	32.26	54	-21.74	-	-	-	-	249	357	V
4	* 4.683	42.8	PK1	34.2	-32.1	44.9	-	-	74	-29.1	-	-	249	354	V
	* 4.684	31.22	AD1	34.2	-32.1	33.32	54	-20.68	-	-	-	-	249	354	V
5	* 4.81	45.66	PK1	34.3	-32	47.96	-	-	74	-26.04	-	-	284	253	V
	* 4.81	38.34	AD1	34.3	-32	40.64	54	-13.36	-	-	-	-	284	253	V
6	* 7.4	43.5	PK1	36.1	-30.1	49.5	-	-	74	-24.5	-	-	267	180	V
	* 7.4	36.49	AD1	36.1	-30.1	42.49	54	-11.51	-	-	-	-	267	180	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

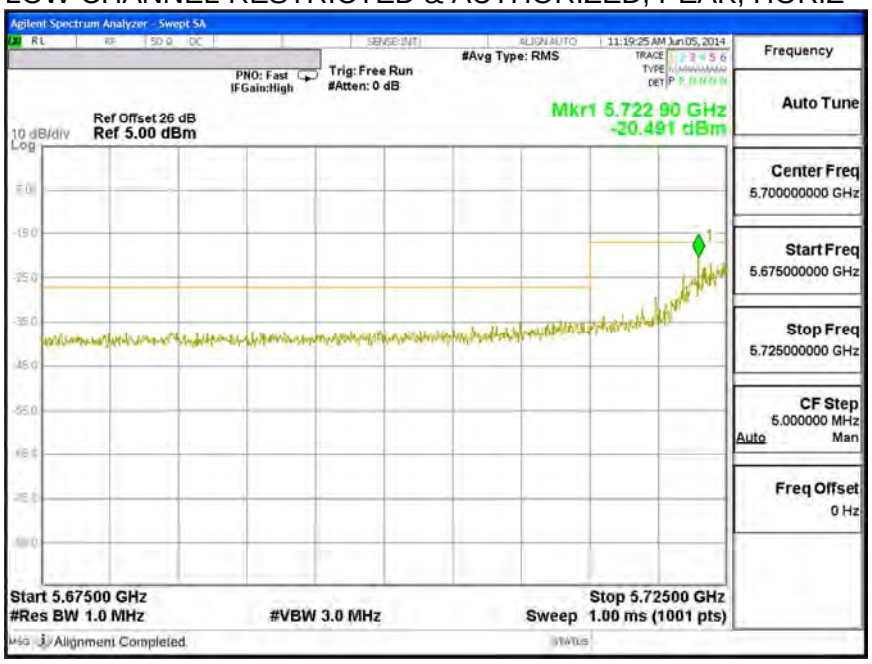
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.833	42.59	PK1	32.5	-33	42.09	-	-	74	-31.91	-	-	137	207	V
	* 2.832	30.46	AD1	32.5	-33	29.96	54	-24.04	-	-	-	-	137	207	V
3	* 4.62	44.01	PK1	34.1	-31.9	46.21	-	-	74	-27.79	-	-	114	271	V
	* 4.62	33.42	AD1	34.1	-31.9	35.62	54	-18.38	-	-	-	-	114	271	V
4	* 5.04	44.5	PK1	34.4	-30.4	48.5	-	-	74	-25.5	-	-	110	187	V
	* 5.04	34.37	AD1	34.4	-30.4	38.37	54	-15.63	-	-	-	-	110	187	V
6	* 7.56	42.55	PK1	36.1	-29.2	49.45	-	-	74	-24.55	-	-	92	190	V
	* 7.56	33.26	AD1	36.1	-29.2	40.16	54	-13.84	-	-	-	-	92	190	V
1	1.771	43.39	PK1	29.8	-34.6	38.59	-	-	-	-	68.2	-29.61	360	360	H
5	6.301	42.5	PK1	35.4	-31.3	46.6	-	-	-	-	68.2	-21.6	99	147	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

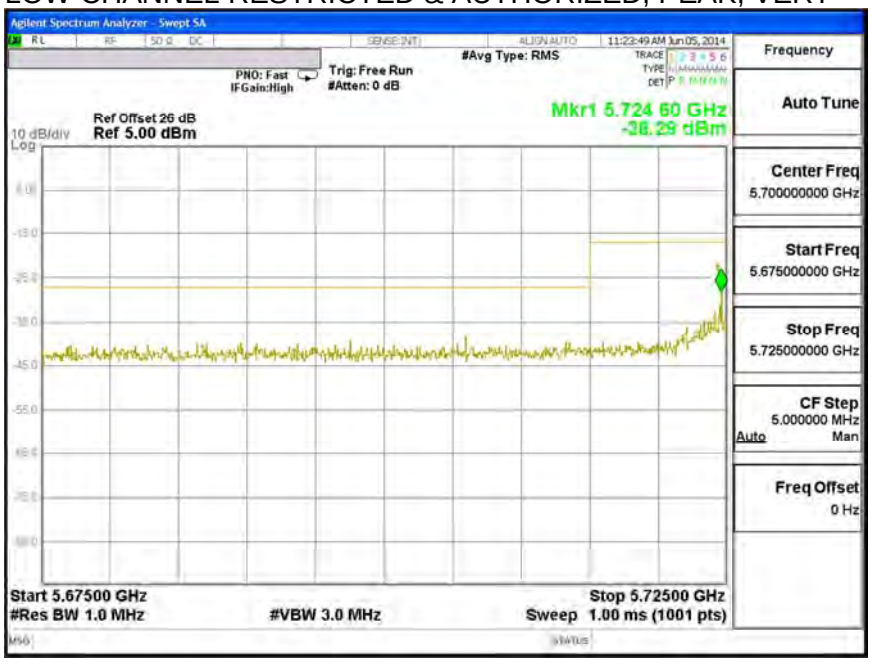
10.2.13. TX ABOVE 1 GHz 802.11a 1Tx MODE IN THE 5.8 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, HORIZ

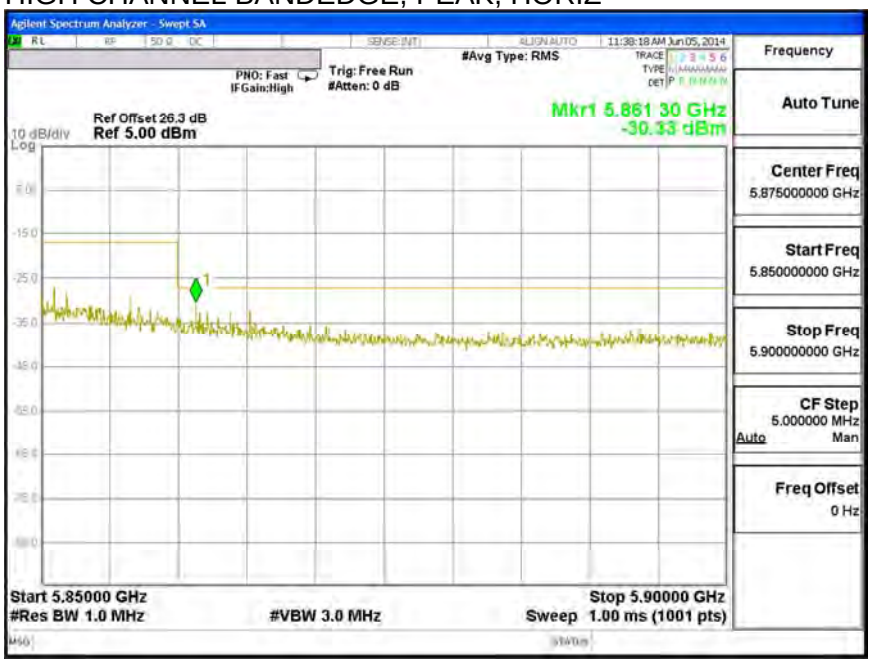


LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, VERT

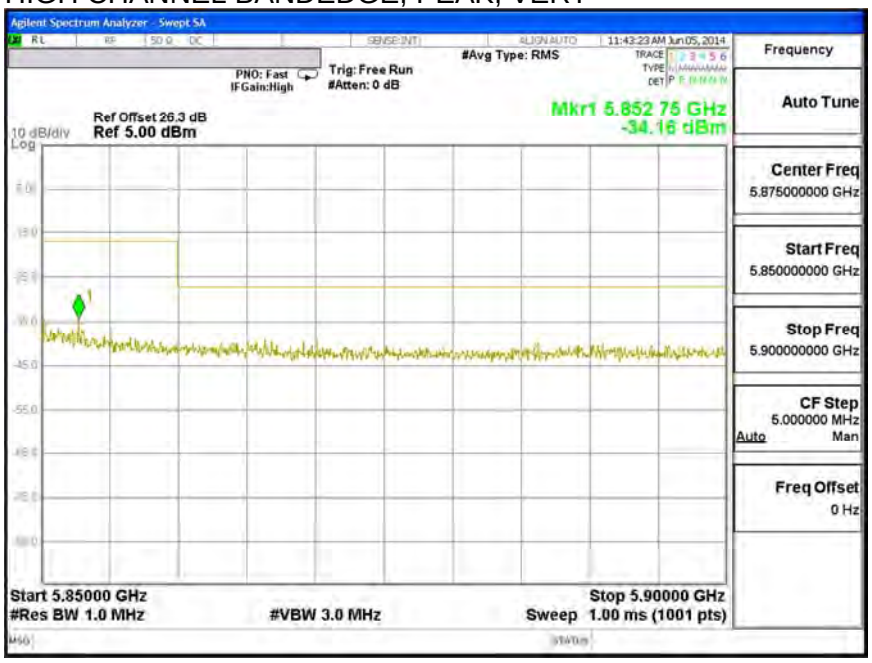


AUTHORIZED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL BANDEDGE, PEAK, HORIZ

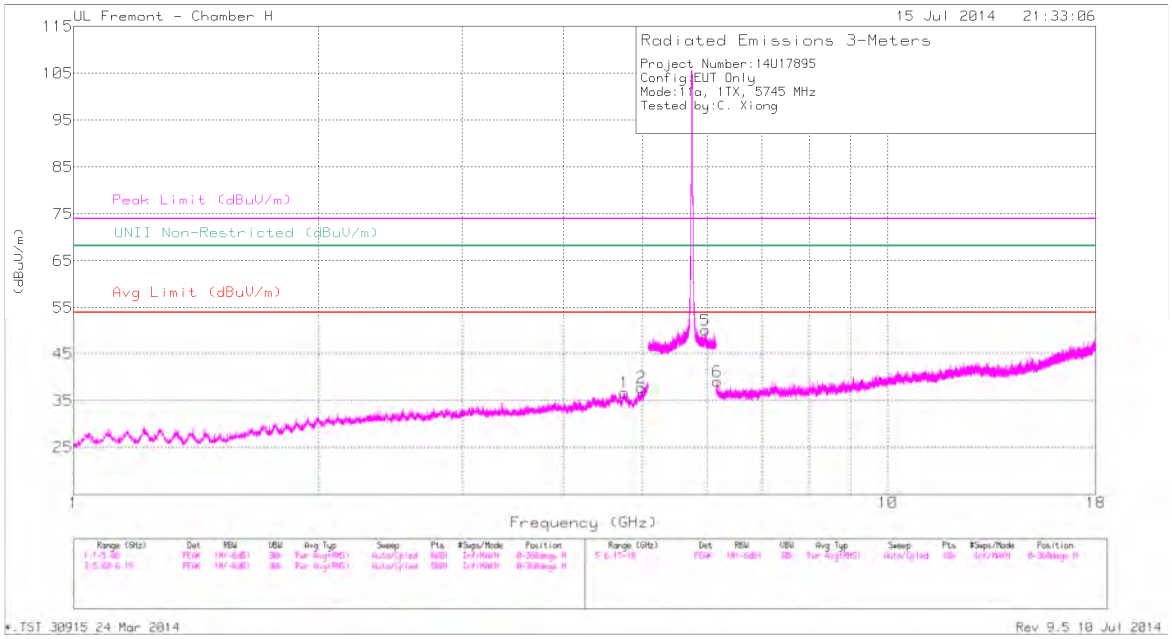


HIGH CHANNEL BANDEDGE, PEAK, VERT

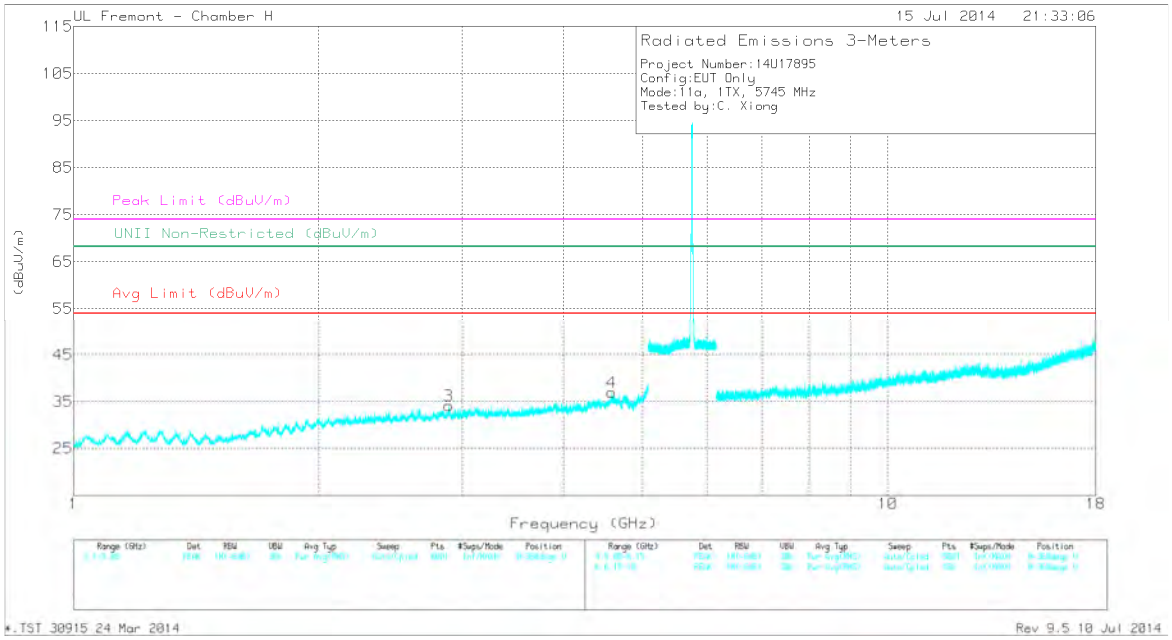


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT

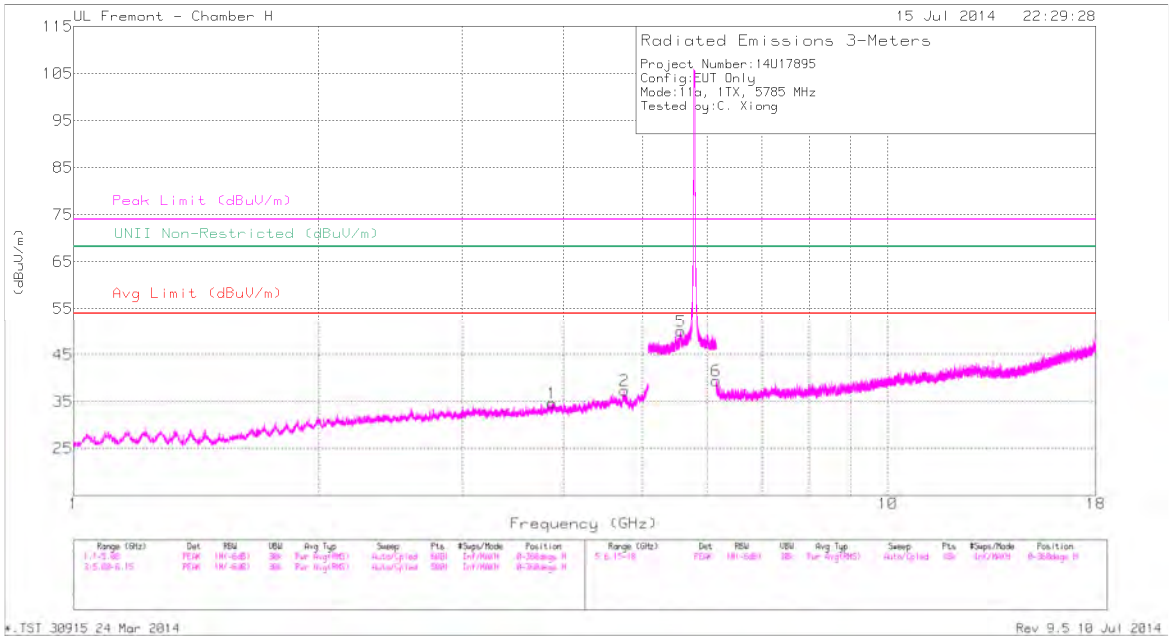


DATA

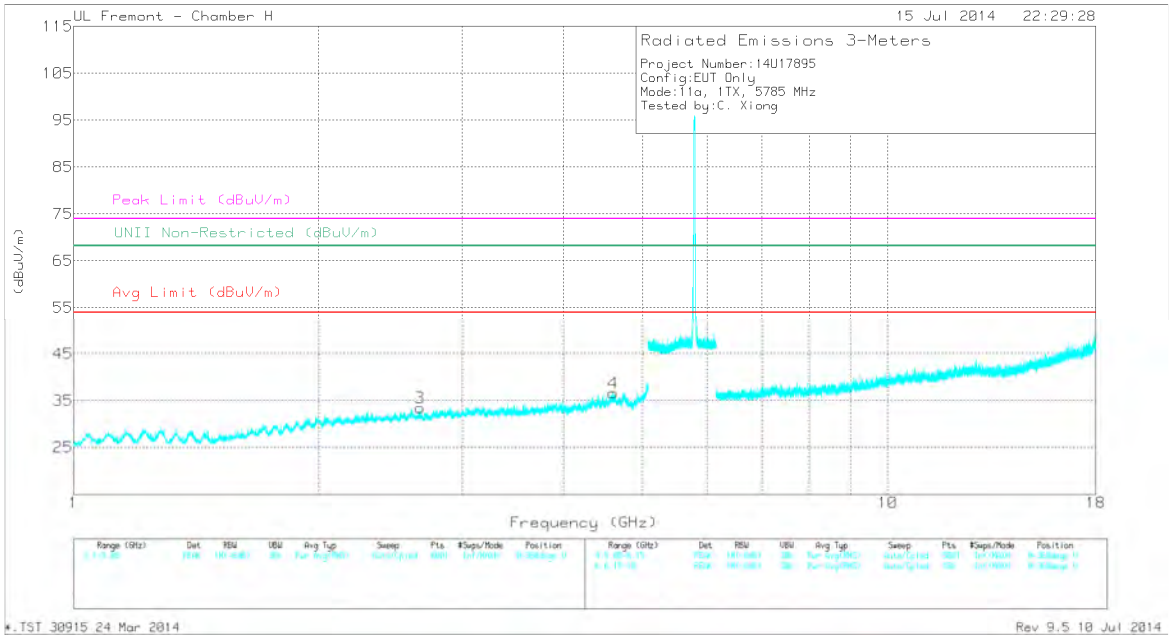
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.745	41.87	PK1	34.3	-31.7	44.47	-	-	74	-29.53	-	-	37	210	H
	* 4.747	30.24	AD1	34.3	-31.7	32.84	54	-21.16	-	-	-	-	37	210	H
2	* 4.978	40.71	PK1	34.3	-31	44.01	-	-	74	-29.99	-	-	147	157	H
	* 4.98	29.86	AD1	34.3	-31	33.16	54	-20.84	-	-	-	-	147	157	H
3	* 2.889	42.17	PK1	32.6	-33.3	41.47	-	-	74	-32.53	-	-	74	194	V
	* 2.89	30.54	AD1	32.6	-33.4	29.74	54	-24.26	-	-	-	-	74	194	V
4	* 4.577	42.59	PK1	34.1	-31.9	44.79	-	-	74	-29.21	-	-	104	159	V
	* 4.577	30.79	AD1	34.1	-31.9	32.99	54	-21.01	-	-	-	-	104	159	V
5	5.963	45.73	PK1	35.2	-22.2	58.73	-	-	-	-	68.2	-9.47	306	123	H
6	6.17	42.43	PK1	35.3	-30.5	47.23	-	-	-	-	68.2	-20.97	297	119	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT

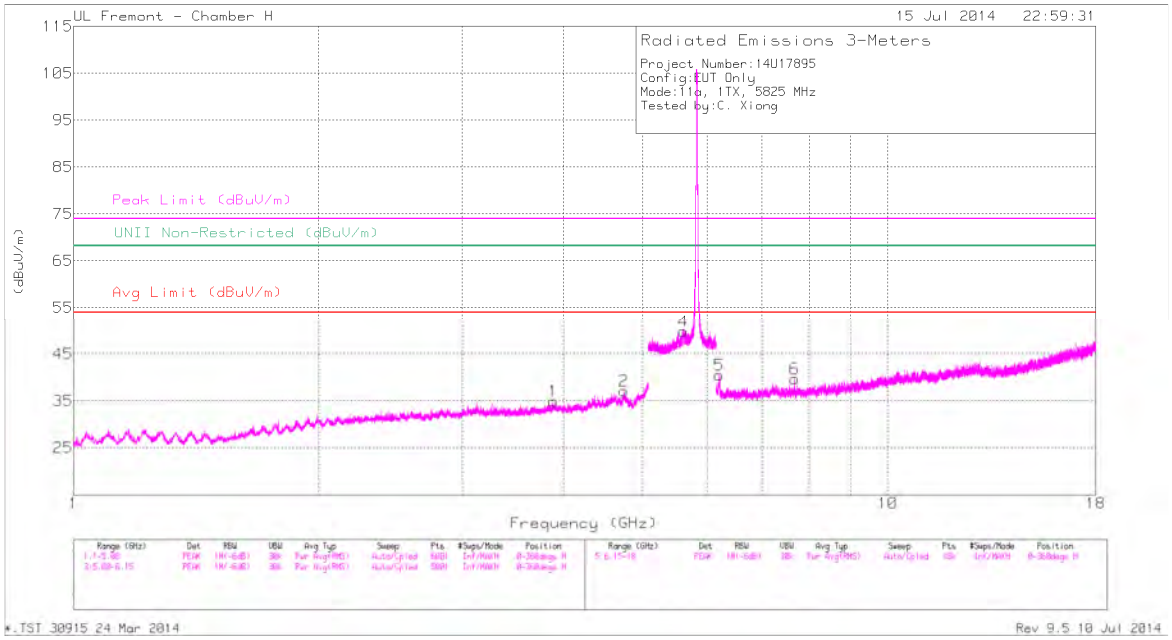


DATA

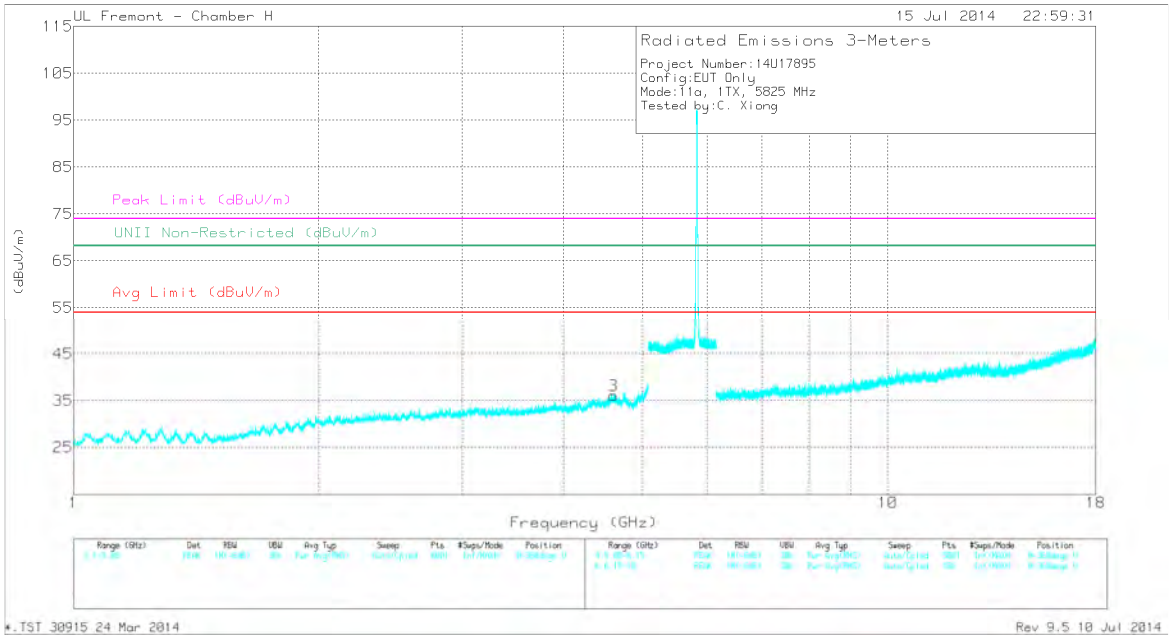
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.873	41.55	PK1	33.3	-32.7	42.15	-	-	74	-31.85	-	-	244	190	H
	* 3.873	30.78	AD1	33.3	-32.7	31.38	54	-22.62	-	-	-	-	244	190	H
2	* 4.748	41.53	PK1	34.3	-31.8	44.03	-	-	74	-29.97	-	-	288	170	H
	* 4.745	30.55	AD1	34.3	-31.7	33.15	54	-20.85	-	-	-	-	288	170	H
3	* 2.666	42.17	PK1	32.3	-33.9	40.57	-	-	74	-33.43	-	-	295	228	V
	* 2.666	30.81	AD1	32.3	-33.9	29.21	54	-24.79	-	-	-	-	295	228	V
4	* 4.6	41.54	PK1	34.1	-31.8	43.84	-	-	74	-30.16	-	-	255	218	V
	* 4.6	30.38	AD1	34.1	-31.8	32.68	54	-21.32	-	-	-	-	255	218	V
5	5.567	44.55	PK1	35.1	-22.5	57.15	-	-	-	-	68.2	-11.05	280	165	H
6	6.151	39.74	PK1	35.3	-30.4	44.64	-	-	-	-	68.2	-23.56	244	182	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

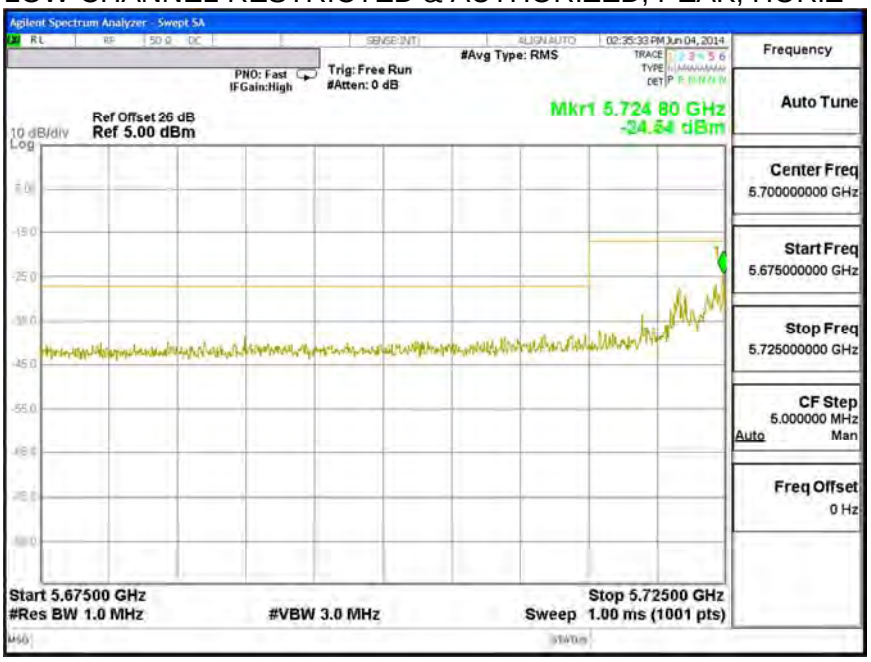
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.882	42.42	PK1	33.4	-32.8	43.02	-	-	74	-30.98	-	-	222	224	H
	* 3.884	30.88	AD1	33.4	-32.8	31.48	54	-22.52	-	-	-	-	222	224	H
2	* 4.737	40.36	PK1	34.3	-31.5	43.16	-	-	74	-30.84	-	-	87	147	H
	* 4.737	30.12	AD1	34.3	-31.5	32.92	54	-21.08	-	-	-	-	87	147	H
3	* 4.598	41.73	PK1	34.1	-31.8	44.03	-	-	74	-29.97	-	-	162	174	V
	* 4.597	30.3	AD1	34.1	-31.8	32.6	54	-21.4	-	-	-	-	162	174	V
4	* 7.677	39.86	PK1	36.1	-29.5	46.46	-	-	74	-27.54	-	-	69	123	H
	* 7.675	27.73	AD1	36.1	-29.5	34.33	54	-19.67	-	-	-	-	69	123	H
5	5.61	43.17	PK1	35.1	-22.5	55.77	-	-	-	-	68.2	-12.43	200	223	H
6	6.208	40.05	PK1	35.4	-30.6	44.85	-	-	-	-	68.2	-23.35	184	217	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

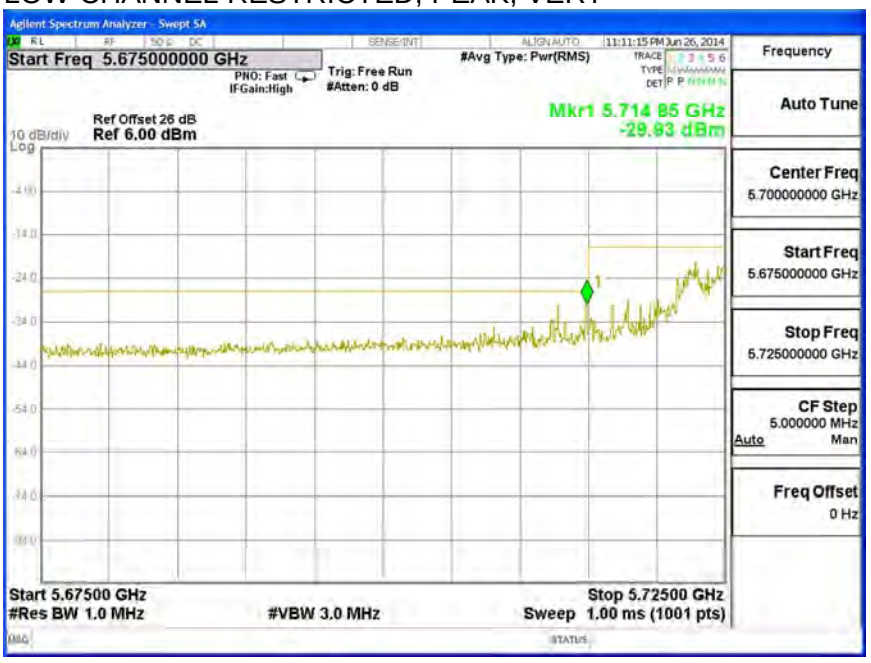
10.2.14. TX ABOVE 1 GHz 802.11n HT20 2Tx CDD MODE IN THE 5.8 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, HORIZ

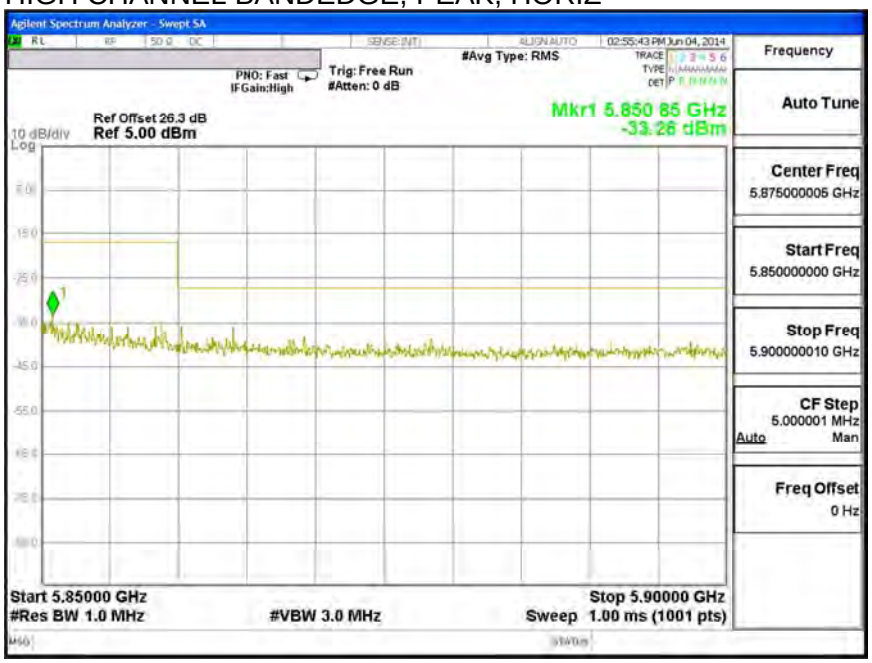


LOW CHANNEL RESTRICTED, PEAK, VERT

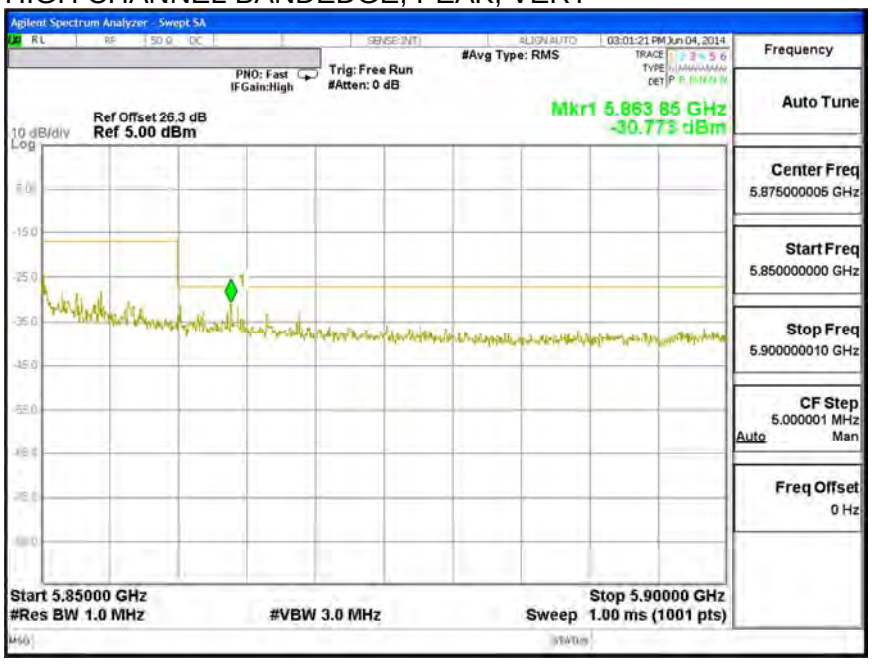


AUTHORIZED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL BANDEDGE, PEAK, HORIZ

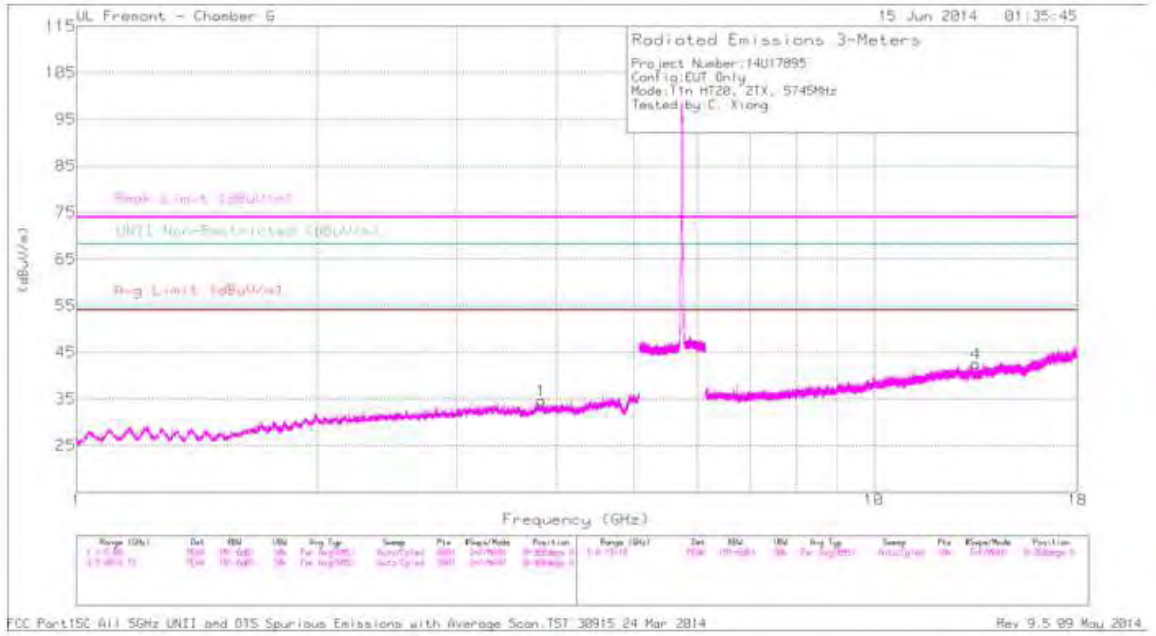


HIGH CHANNEL BANDEDGE, PEAK, VERT

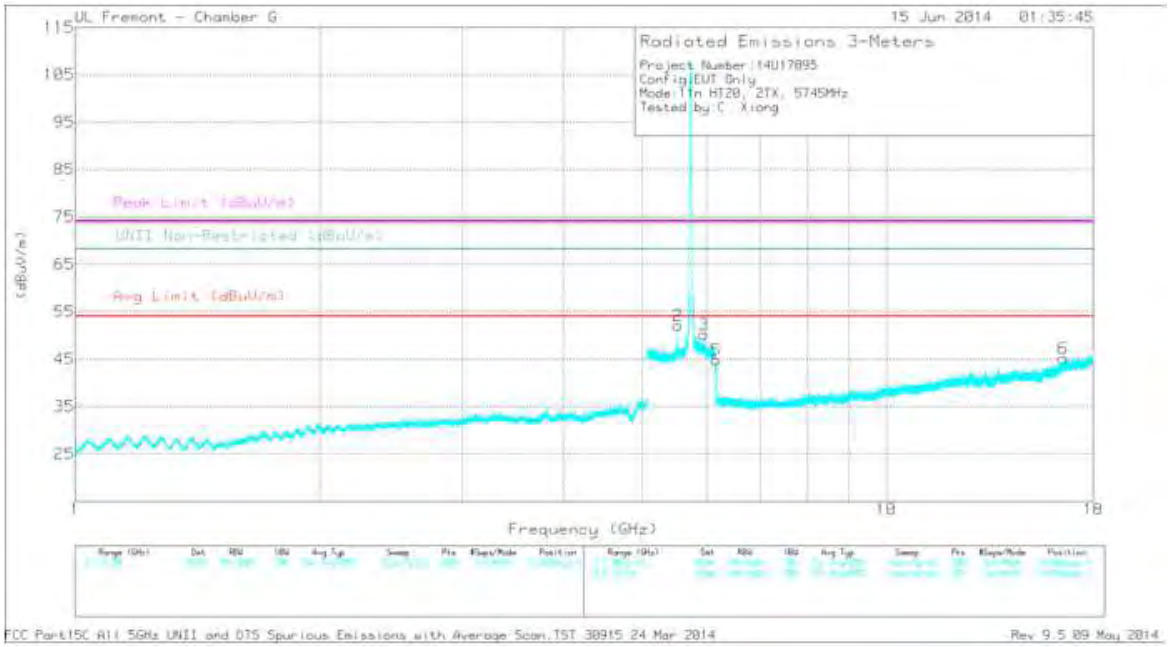


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT

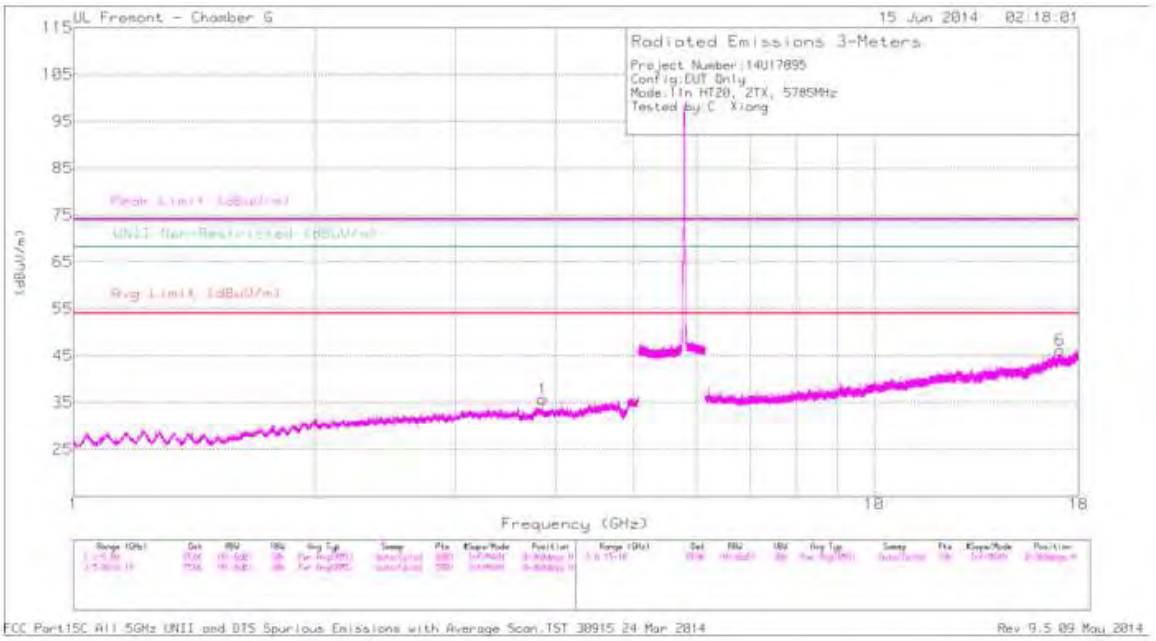


DATA

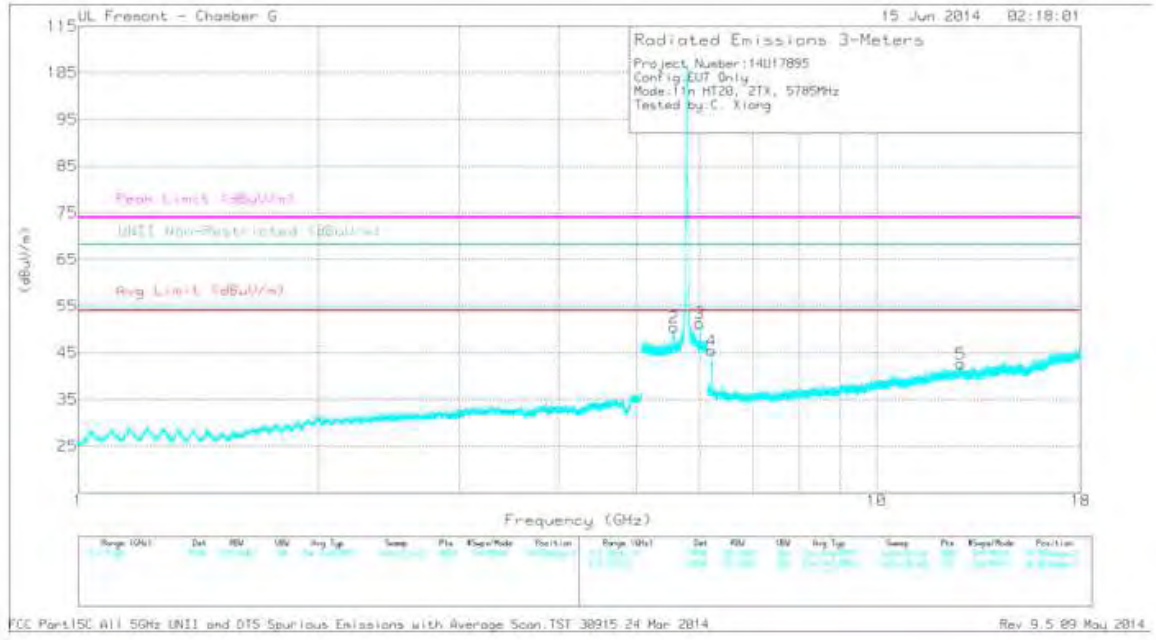
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.83	43.27	PK1	33.1	-33.2	0	43.17	-	-	74	-30.83	-	-	229	310	H
	* 3.83	34.61	AD1	33.1	-33.2	0	34.51	54	-19.49	-	-	-	-	229	310	H
4	13.426	37.63	PK1	39.1	-27.3	0	49.43	-	-	-	-	68.2	-18.77	31	190	H
6	16.525	37.39	PK1	41.3	-26.1	0	52.59	-	-	-	-	68.2	-15.61	31	190	V
2	5.532	47.2	PK1	34.7	-23.6	0	58.3	-	-	-	-	68.2	-9.9	24	181	V
3	5.956	44.97	PK1	35.1	-23.6	0	56.47	-	-	-	-	68.2	-11.73	37	187	V
5	6.166	50.23	PK1	35.5	-32.3	0	53.43	-	-	-	-	68.2	-14.77	31	190	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT

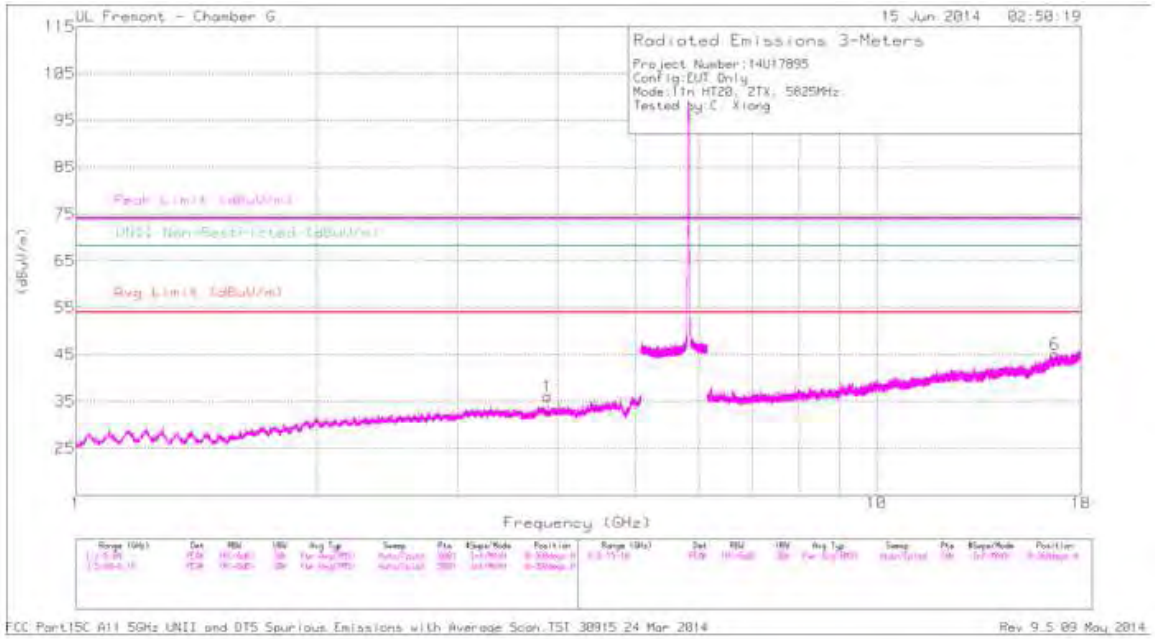


DATA

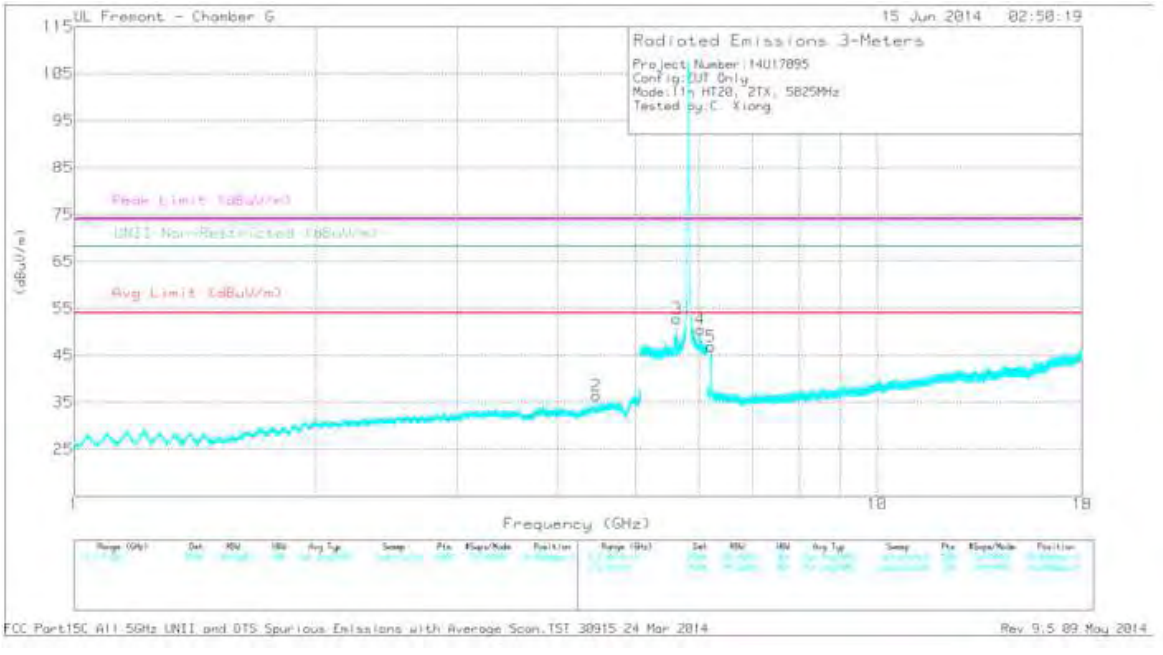
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.857	42.89	PK1	33.1	-33.5	0	42.49	-	-	74	-31.51	-	-	217	317	H
	* 3.857	35.04	AD1	33.1	-33.5	0	34.64	54	-19.36	-	-	-	-	217	317	H
5	12.752	37.03	PK1	39.1	-25.9	0	50.23	-	-	-	-	68.2	-17.97	34	184	V
6	17.055	37.5	PK1	42	-25.4	0	54.1	-	-	-	-	68.2	-14.1	34	184	H
2	5.571	46.31	PK1	34.7	-23.6	0	57.41	-	-	-	-	68.2	-10.79	19	201	V
3	5.999	46.12	PK1	35.2	-23.6	0	57.72	-	-	-	-	68.2	-10.48	29	178	V
4	6.214	49.61	PK1	35.6	-32.2	0	53.01	-	-	-	-	68.2	-15.19	34	184	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

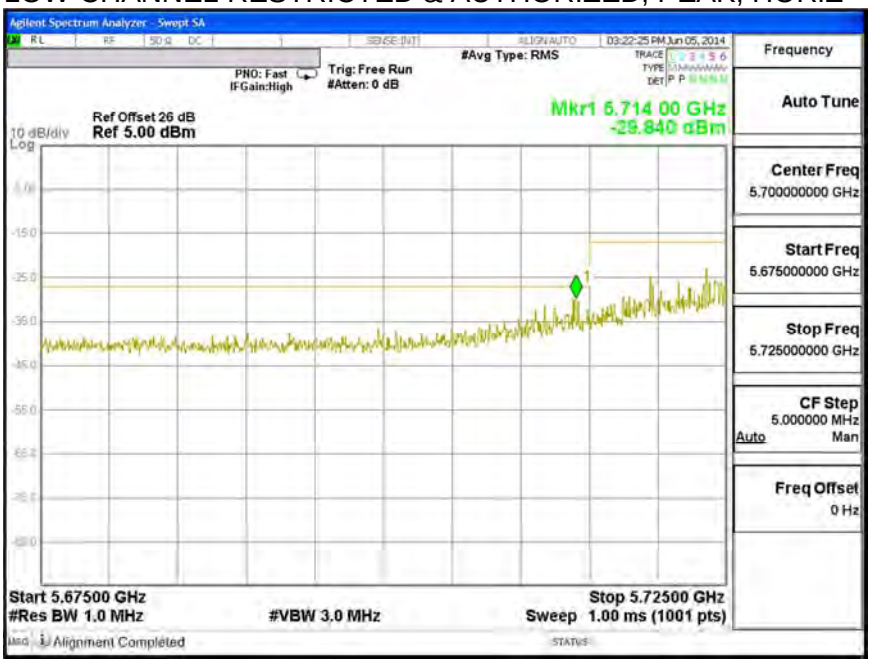
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.883	43.73	PK1	33.2	-33.6	0	43.33	-	-	74	-30.67	-	-	227	308	H
	* 3.883	35.73	AD1	33.2	-33.6	0	35.33	54	-18.67	-	-	-	-	227	308	H
6	16.702	37.11	PK1	41.7	-26.4	0	52.41	-	-	-	-	68.2	-15.79	28	193	H
2	4.466	42.04	PK1	33.7	-33.2	0	42.54	-	-	-	-	68.2	-25.66	256	202	V
3	5.634	47.24	PK1	34.8	-23.6	0	58.44	-	-	-	-	68.2	-9.76	31	202	V
4	6.02	46.23	PK1	35.2	-23.6	0	57.83	-	-	-	-	68.2	-10.37	25	164	V
5	6.206	50.96	PK1	35.6	-32.3	0	54.26	-	-	-	-	68.2	-13.94	28	193	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

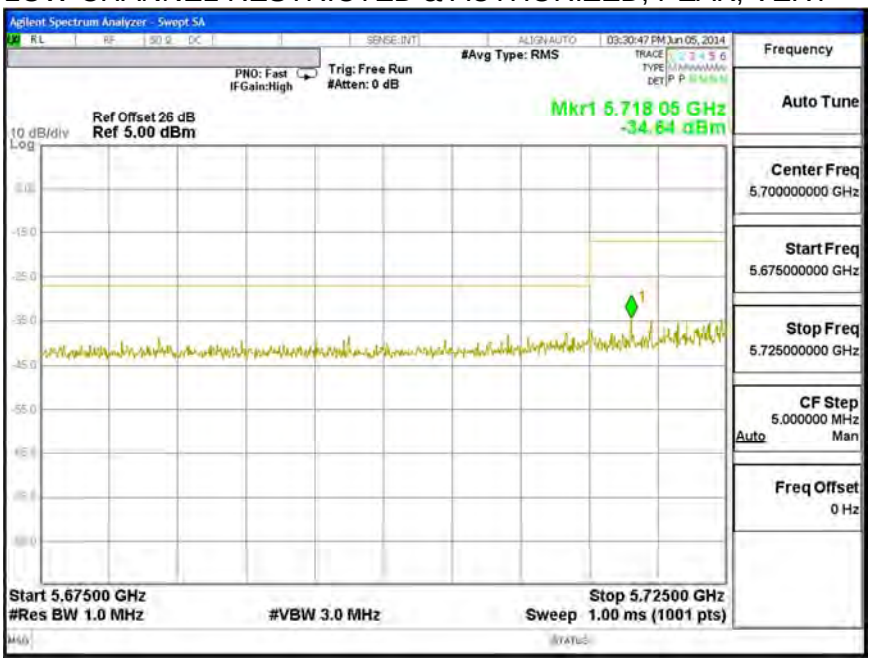
10.2.15. TX ABOVE 1 GHz 802.11n HT40 1Tx MODE IN THE 5.8 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, HORIZ

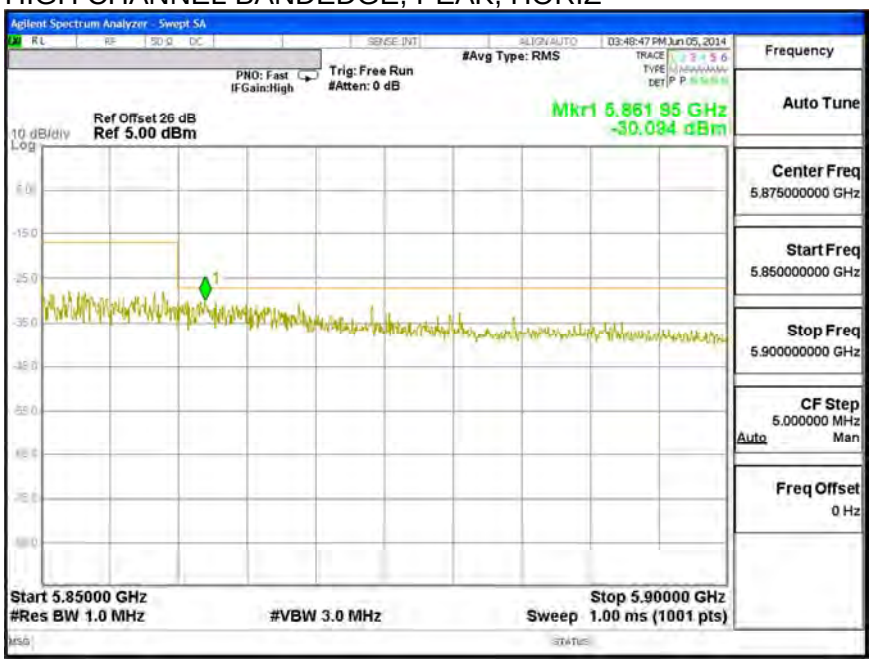


LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, VERT

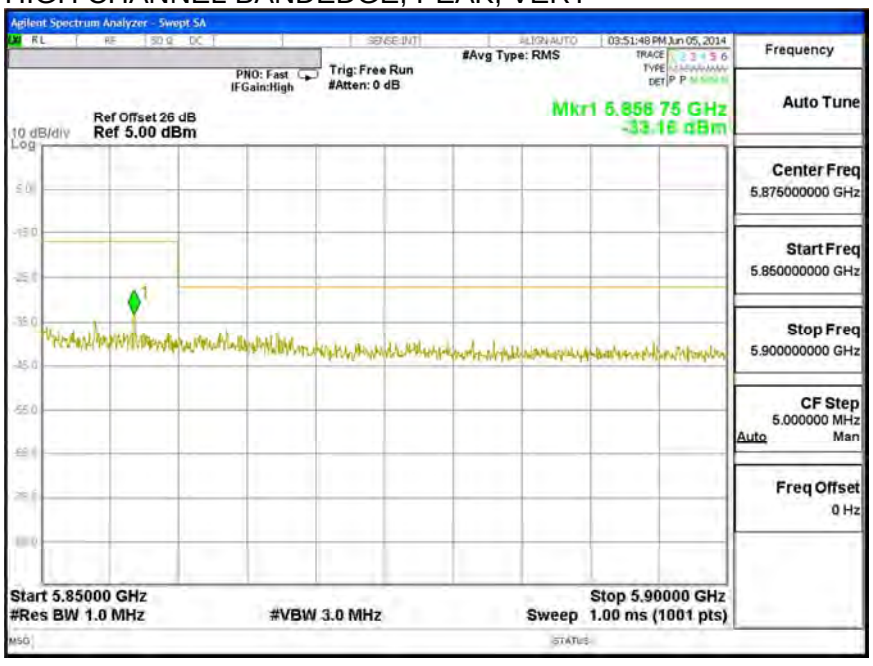


AUTHORIZED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL BANDEDGE, PEAK, HORIZ

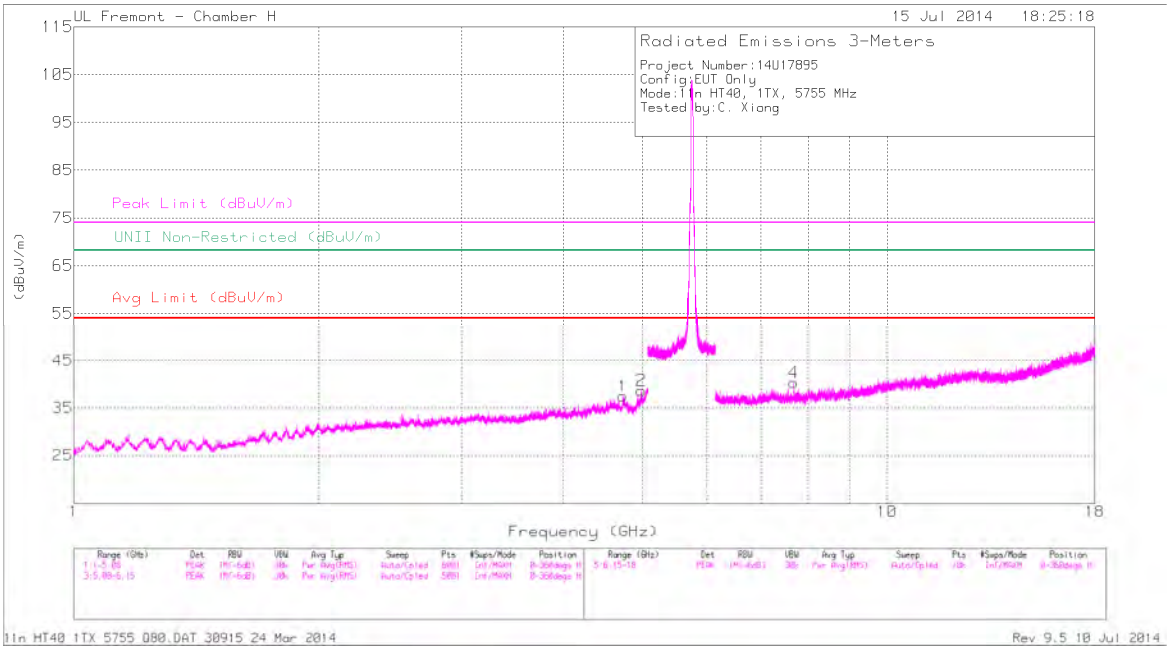


HIGH CHANNEL BANDEDGE, PEAK, VERT

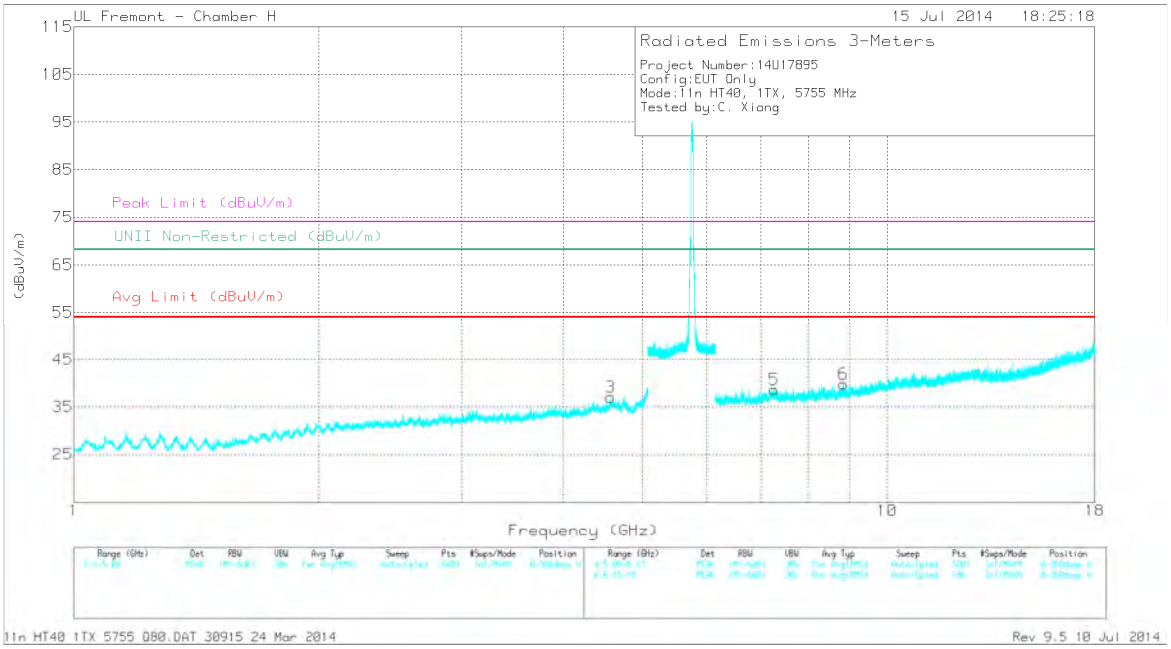


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT

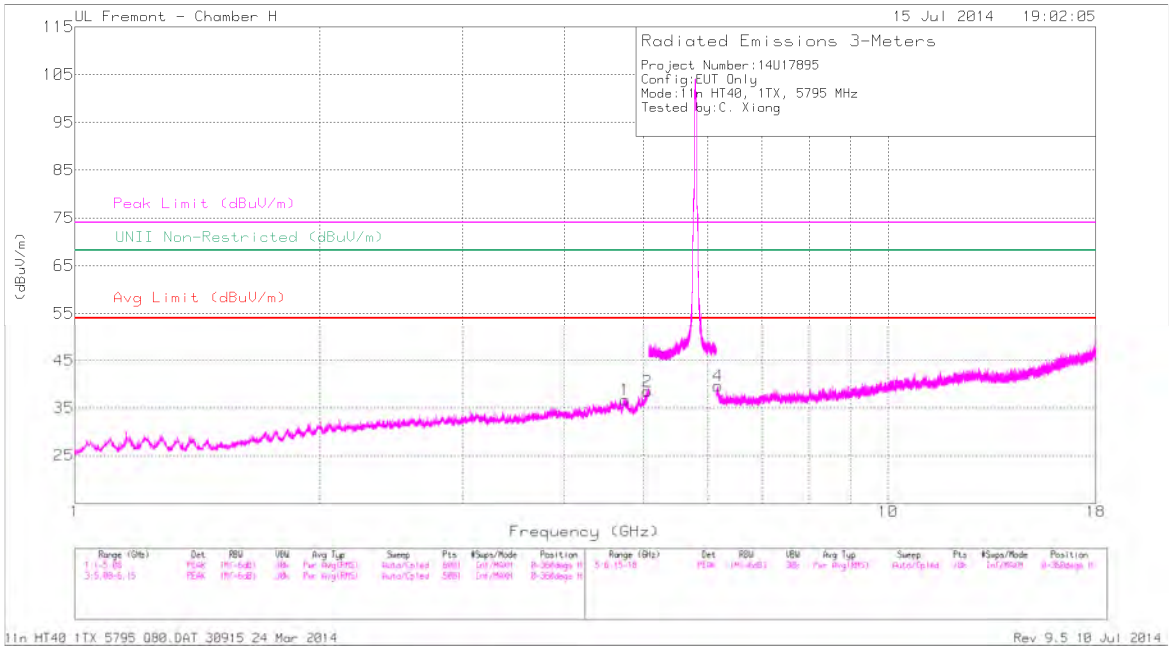


DATA

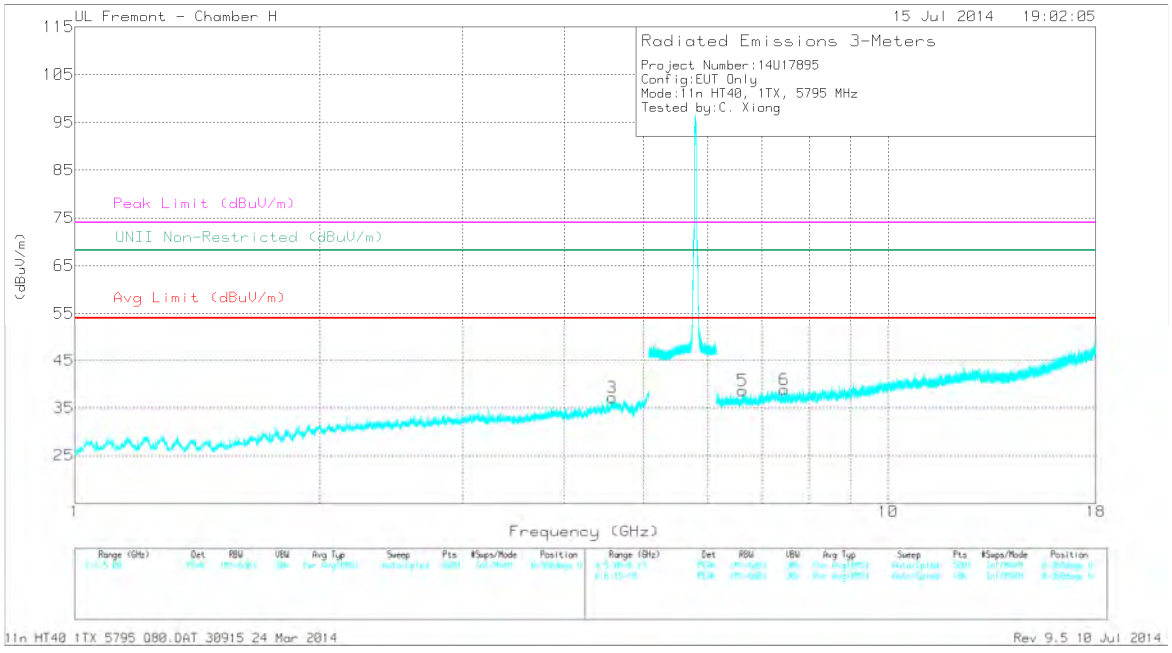
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.736	41.4	PK1	34.3	-31.5	0	44.2	-	-	74	-29.8	-	-	345	156	H
	* 4.741	30.38	AD1	34.3	-31.6	.13	33.21	54	-20.79	-	-	-	-	345	156	H
2	* 4.988	44.35	PK1	34.3	-31.2	0	47.45	-	-	74	-26.55	-	-	306	129	H
	* 4.988	33.78	AD1	34.3	-31.2	.13	37.01	54	-16.99	-	-	-	-	306	129	H
3	* 4.572	41.69	PK1	34.1	-31.7	0	44.09	-	-	74	-29.91	-	-	197	157	V
	* 4.572	30.5	AD1	34.1	-31.7	.13	33.03	54	-20.97	-	-	-	-	197	157	V
4	* 7.673	40.39	PK1	36.1	-29.4	0	47.09	-	-	74	-26.91	-	-	17	103	H
	* 7.673	31.58	AD1	36.1	-29.4	.13	38.41	54	-15.59	-	-	-	-	17	103	H
5	* 7.269	38.67	PK1	36.2	-29.1	0	45.77	-	-	74	-28.23	-	-	234	320	V
	* 7.271	27.59	AD1	36.2	-29.2	.13	34.72	54	-19.28	-	-	-	-	234	320	V
6	8.84	37.69	PK1	36.3	-27.3	0	46.69	-	-	-	-	68.2	-21.51	255	233	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

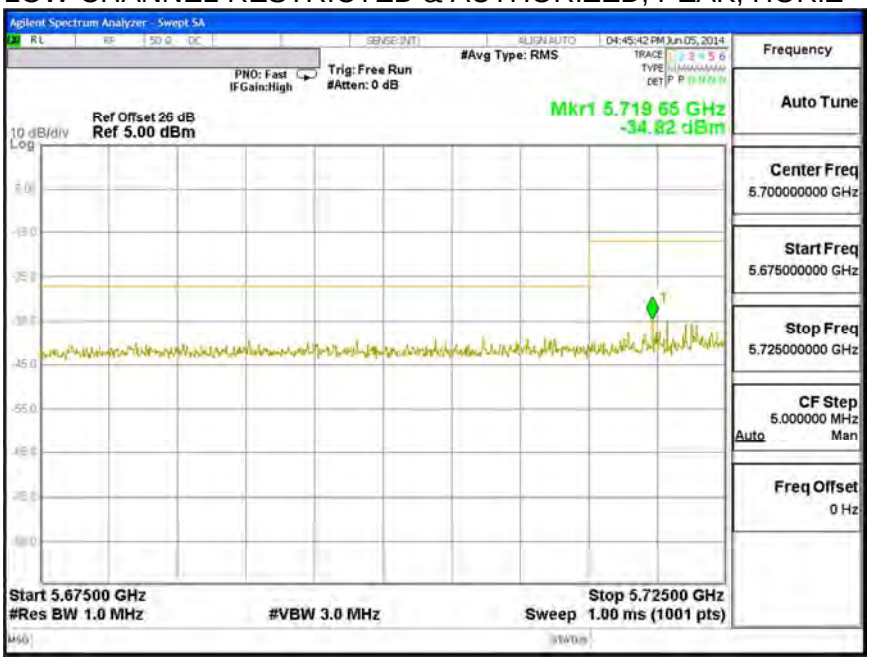
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.748	41.87	PK1	34.3	-31.8	0	44.37	-	-	74	-29.63	-	-	21	120	H
	* 4.747	30.97	AD1	34.3	-31.7	.13	33.7	54	-20.3	-	-	-	-	21	120	H
2	* 5.058	41.24	PK1	34.4	-29.3	0	46.34	-	-	74	-27.66	-	-	149	175	H
	* 5.059	29.96	AD1	34.4	-29.2	.13	35.29	54	-18.71	-	-	-	-	149	175	H
3	* 4.579	42.69	PK1	34.1	-31.9	0	44.89	-	-	74	-29.11	-	-	329	124	V
	* 4.58	30.53	AD1	34.1	-31.9	.13	32.86	54	-21.14	-	-	-	-	329	124	V
6	* 7.4	33.71	AD1	36.1	-30.1	.13	39.84	54	-14.16	-	-	-	-	298	110	H
	* 7.453	39.25	PK1	36.1	-29.7	0	45.65	-	-	74	-28.35	-	-	279	240	V
4	6.176	41.85	PK1	35.3	-30.4	0	46.75	-	-	-	-	68.2	-21.45	299	168	H
5	6.626	39.9	PK1	35.7	-30.3	0	45.3	-	-	-	-	68.2	-22.9	336	156	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

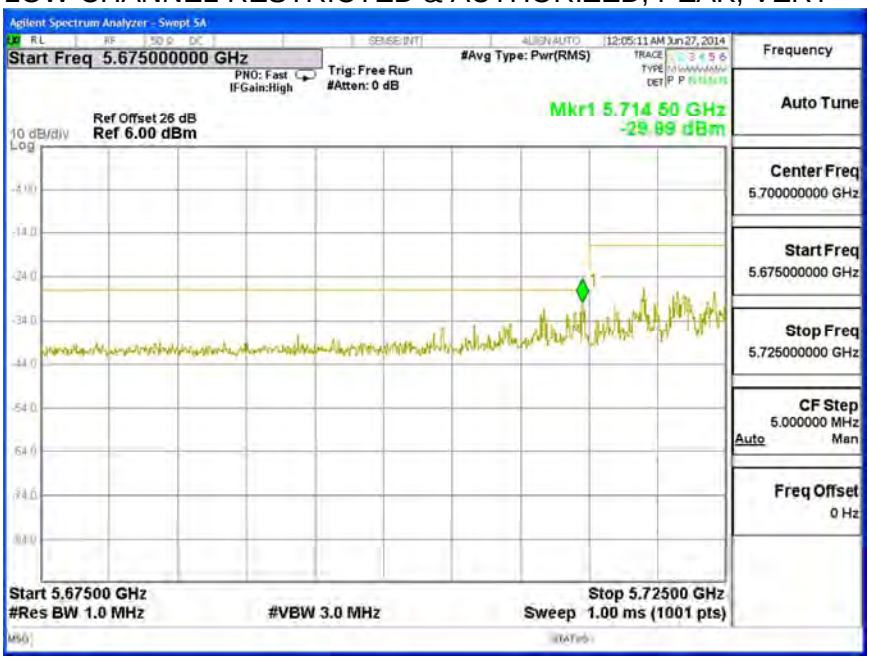
10.2.16. TX ABOVE 1 GHz 802.11n HT40 2Tx CDD MODE IN THE 5.8 GHz BAND

RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL)

LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, HORIZ

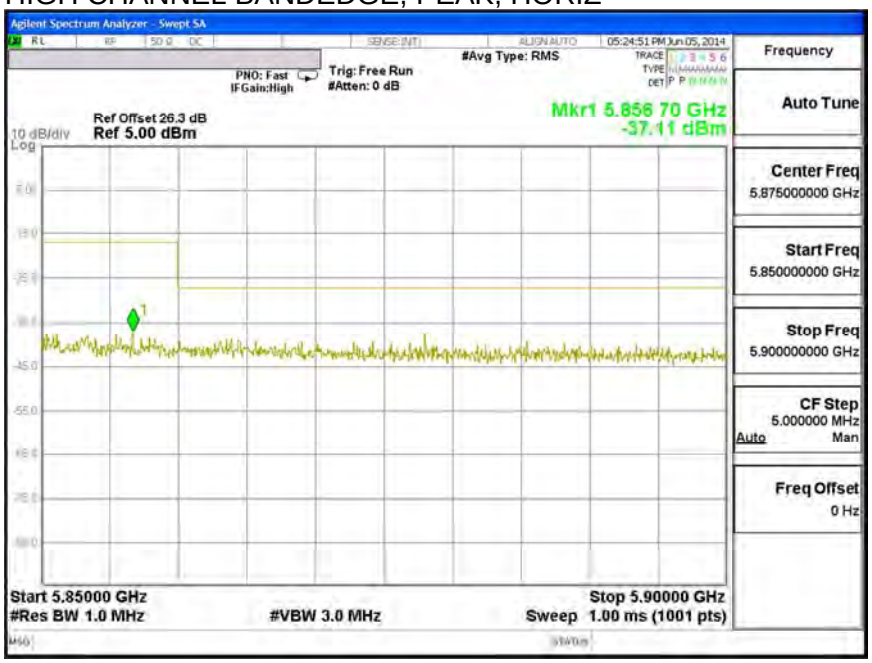


LOW CHANNEL RESTRICTED & AUTHORIZED, PEAK, VERT

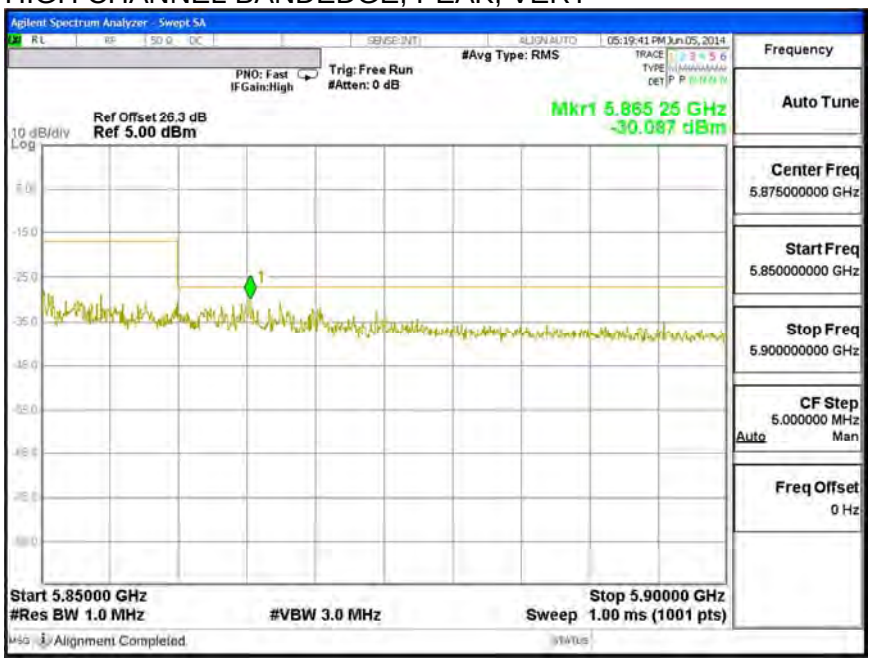


AUTHORIZED BANDEDGE (HIGH CHANNEL)

HIGH CHANNEL BANDEDGE, PEAK, HORIZ

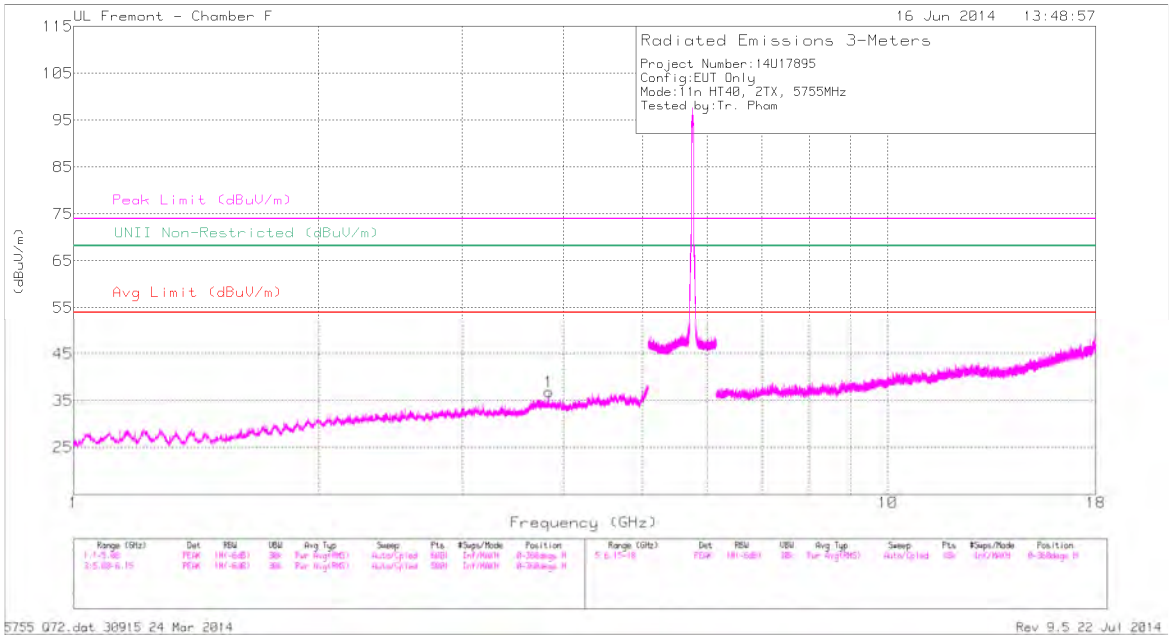


HIGH CHANNEL BANDEDGE, PEAK, VERT

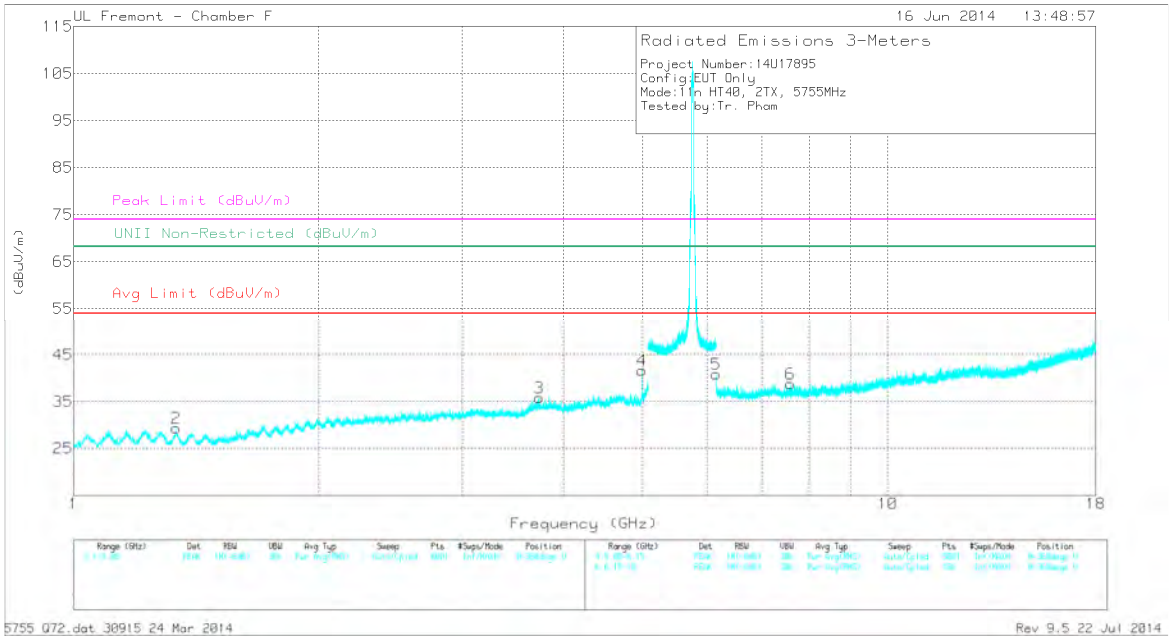


HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL PLOT



LOW CHANNEL VERTICAL PLOT

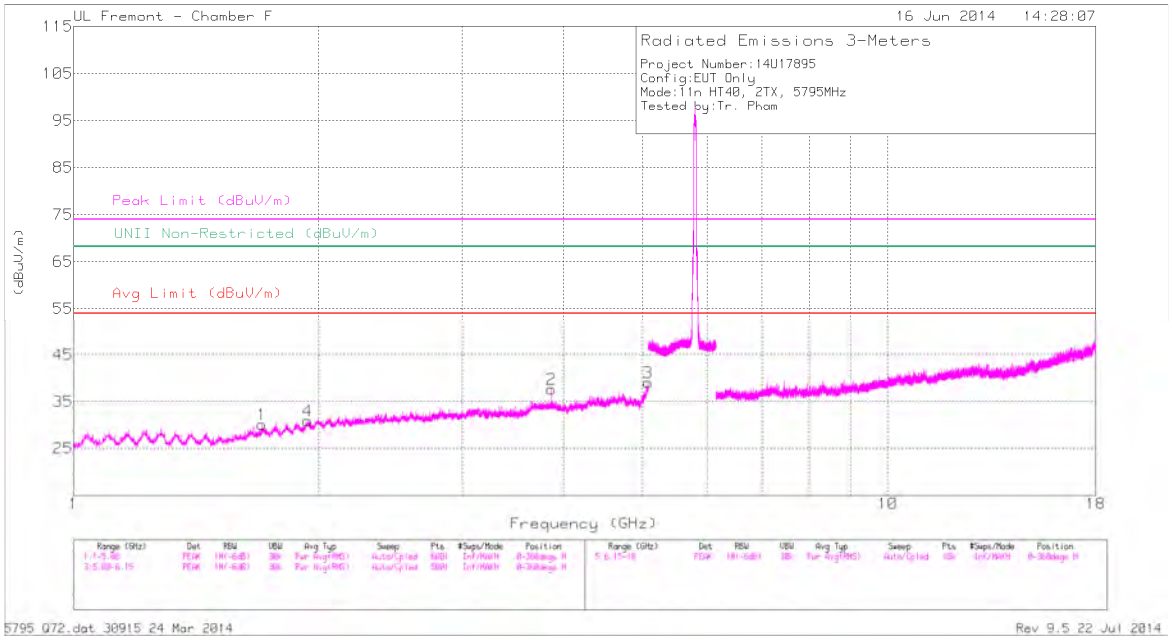


DATA

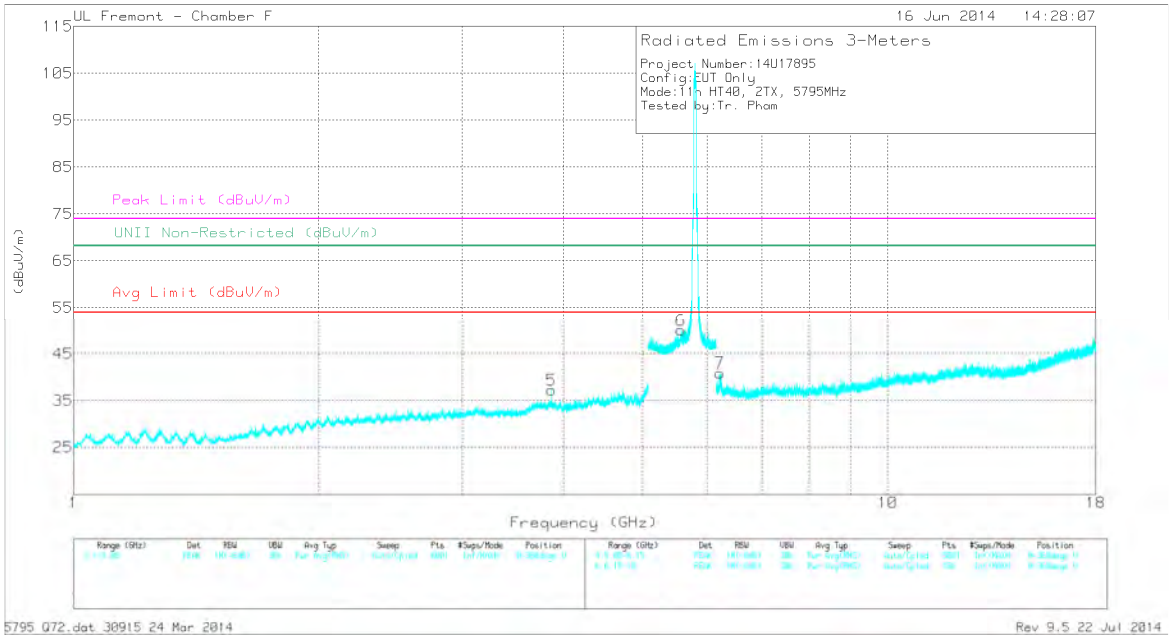
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.837	44.11	PK1	33.3	-32.9	44.51	-	-	74	-29.49	-	-	280	177	H
	* 3.837	34.5	AD1	33.3	-32.9	34.9	54	-19.1	-	-	-	-	280	177	H
2	* 1.337	44.13	PK1	28.5	-35.6	37.03	-	-	74	-36.97	-	-	280	177	V
	* 1.336	32.3	AD1	28.6	-35.6	25.3	54	-28.7	-	-	-	-	280	177	V
3	* 3.732	42.24	PK1	33.2	-33.1	42.34	-	-	74	-31.66	-	-	91	100	V
	* 3.733	30.86	AD1	33.2	-33.1	30.96	54	-23.04	-	-	-	-	91	100	V
4	* 4.988	45.87	PK1	34.3	-31.2	48.97	-	-	74	-25.03	-	-	116	240	V
	* 4.988	38.08	AD1	34.3	-31.2	41.18	54	-12.82	-	-	-	-	116	240	V
6	* 7.589	39.25	PK1	36.1	-29.4	45.95	-	-	74	-28.05	-	-	308	100	V
	* 7.588	27.45	AD1	36.1	-29.3	34.25	54	-19.75	-	-	-	-	308	100	V
5	6.153	43.62	PK1	35.3	-30.4	48.52	-	-	-	-	68.2	-19.68	112	170	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



DATA

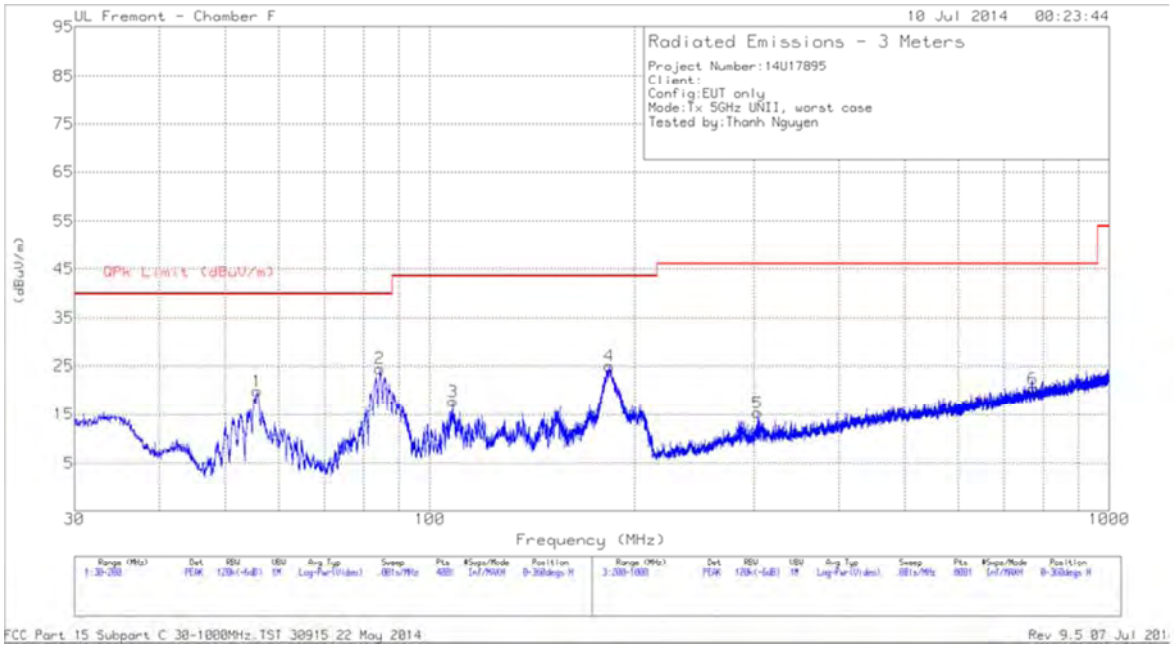
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Fltr /Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.704	43.07	PK1	29.3	-34.3	38.07	-	-	74	-35.93	-	-	360	238	H
	* 1.704	31.2	AD1	29.3	-34.3	26.2	54	-27.8	-	-	-	-	360	238	H
2	* 3.863	43.92	PK1	33.3	-32.8	44.42	-	-	74	-29.58	-	-	282	338	H
	* 3.863	34.99	AD1	33.3	-32.8	35.49	54	-18.51	-	-	-	-	282	338	H
3	* 5.075	41.2	PK1	34.4	-28.5	47.1	-	-	74	-26.9	-	-	282	315	H
	* 5.077	29.29	AD1	34.4	-28.4	35.29	54	-18.71	-	-	-	-	282	315	H
5	* 3.864	44.11	PK1	33.3	-32.7	44.71	-	-	74	-29.29	-	-	213	325	V
	* 3.863	34.93	AD1	33.3	-32.8	35.43	54	-18.57	-	-	-	-	213	325	V
4	1.94	43.71	PK1	30.9	-34.5	40.11	-	-	-	-	68.2	-28.09	199	200	H
6	5.569	44.19	PK1	35.1	-22.5	56.79	-	-	-	-	68.2	-11.41	213	325	V
7	6.219	43.97	PK1	35.4	-30.9	48.47	-	-	-	-	68.2	-19.73	213	390	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

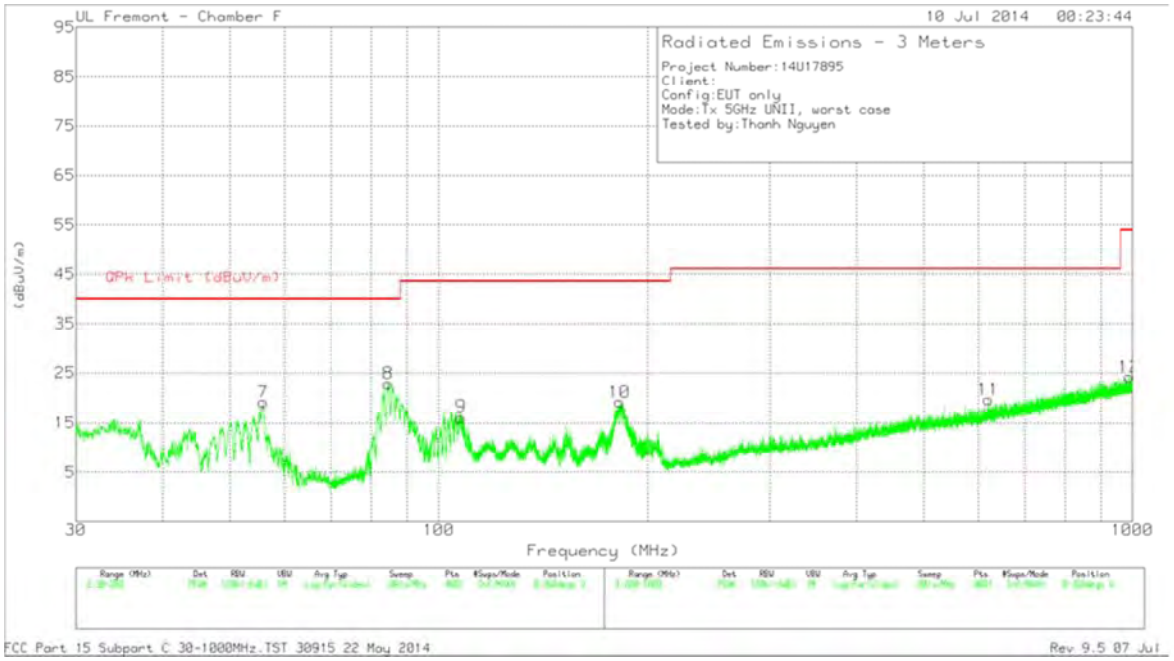
10.3. WORST-CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)

HORIZONTAL PLOT



VERTICAL PLOT



HORIZONTAL & VERTICAL DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T122 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	55.7125	44.43	PK	7.3	-31.8	19.93	40	-20.07	0-360	401	H
2	84.4425	48.72	PK	7.4	-31.7	24.42	40	-15.58	0-360	201	H
3	* 108.2	36.88	PK	12.3	-31.5	17.68	43.52	-25.84	0-360	301	H
4	183.595	44.99	PK	11.1	-31.1	24.99	43.52	-18.53	0-360	201	H
7	55.84	43.62	PK	7.3	-31.8	19.12	40	-20.88	0-360	100	V
8	84.5275	47.17	PK	7.4	-31.7	22.87	40	-17.13	0-360	100	V
9	107.8175	35.24	PK	12.3	-31.4	16.14	43.52	-27.38	0-360	100	V
10	182.32	39.1	PK	11.1	-31.1	19.1	43.52	-24.42	0-360	100	V
5	303.9	32.47	PK	13.5	-30.6	15.37	46.02	-30.65	0-360	100	H
6	771.4	28.85	PK	21.1	-29.5	20.45	46.02	-25.57	0-360	401	H
11	620.4	30.32	PK	19.3	-30	19.62	46.02	-26.4	0-360	201	V
12	* 990.2	28.59	PK	23.2	-27.6	24.19	53.97	-29.78	0-360	201	V

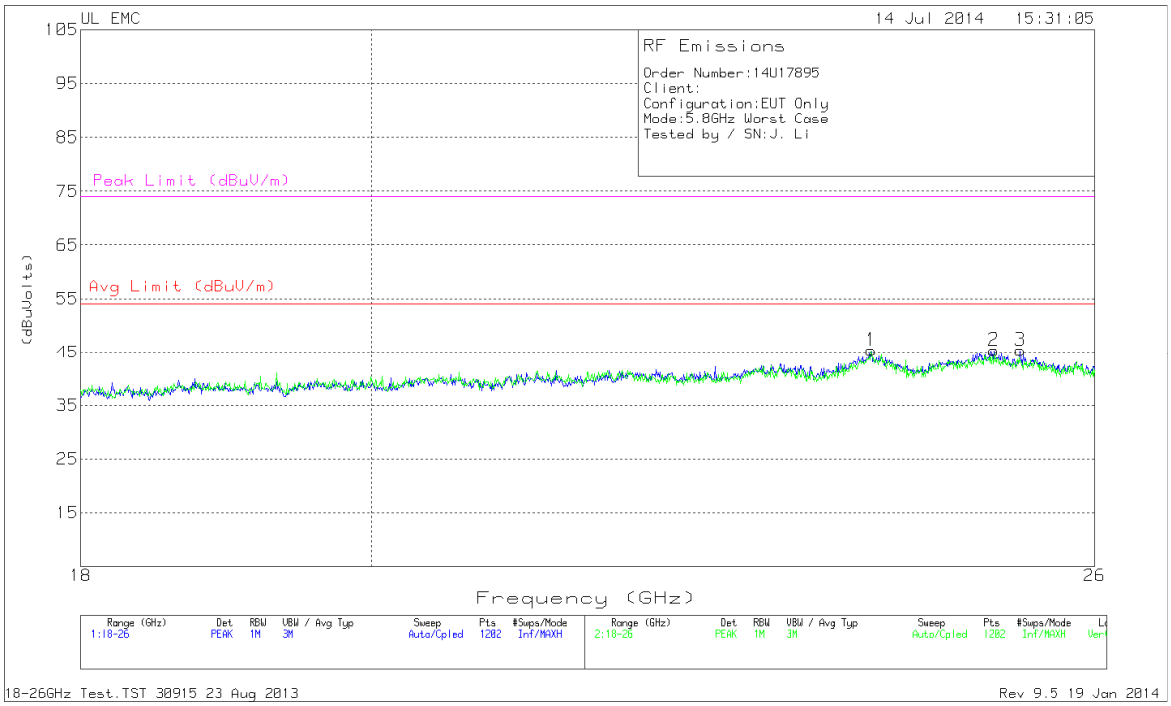
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

10.4. WORST-CASE 18 to 26 GHz

SPURIOUS EMISSIONS 18000 TO 26000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)

HORIZONTAL & VERTICAL PLOT (5.8GHz)



HORIZONTAL & VERTICAL DATA

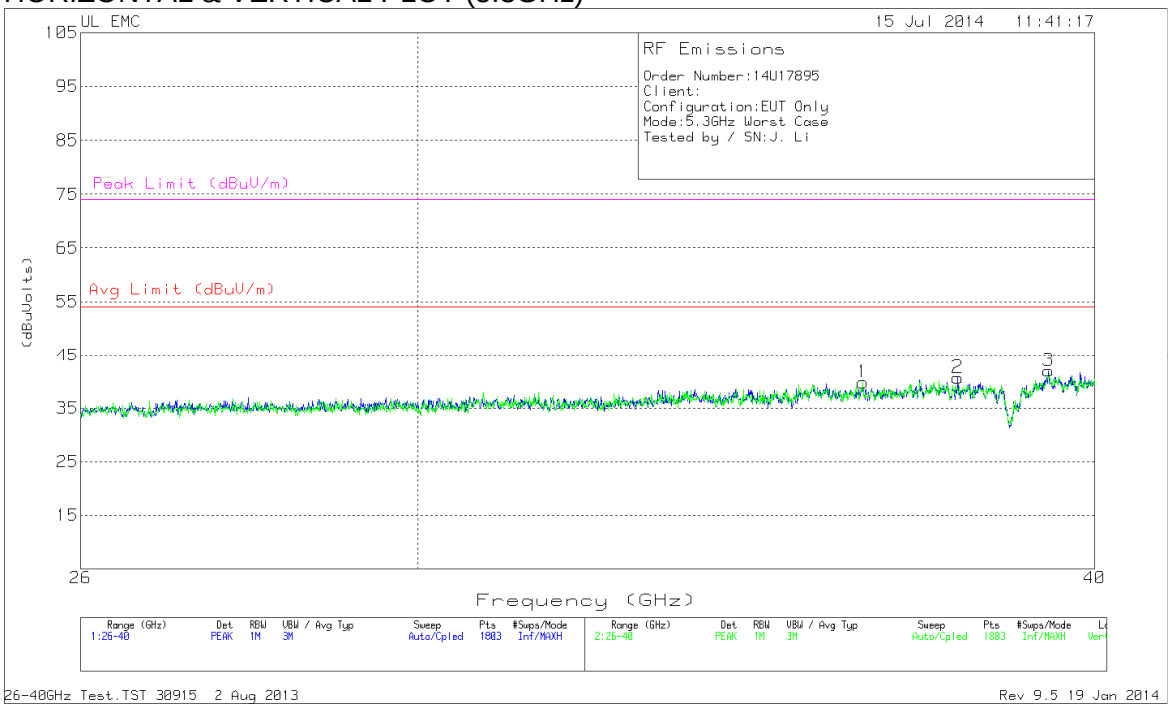
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T89 (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
2	25.067	43.63	PK	34	-22.8	-9.5	45.33	54	-8.67	74	-28.67
3	25.307	43.43	PK	33.9	-22.5	-9.5	45.33	54	-8.67	74	-28.67
1	23.975	43.83	PK	33.6	-22.6	-9.5	45.33	54	-8.67	74	-28.67

PK - Peak detector

10.5. WORST-CASE 26 to 40 GHz

SPURIOUS EMISSIONS 26 TO 40 GHz (WORST-CASE CONFIGURATION, HORIZONTAL & VERTICAL)

HORIZONTAL & VERTICAL PLOT (5.3GHz)



HORIZONTAL & VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T90 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
2	37.739	50.27	PK	37	-37.1	-9.5	40.67	54	-13.33	74	-33.33
3	39.223	49	PK	38.5	-36	-9.5	42	54	-12	74	-32
1	36.248	50.13	PK	37.1	-37.9	-9.5	39.83	54	-14.17	74	-34.17

PK - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

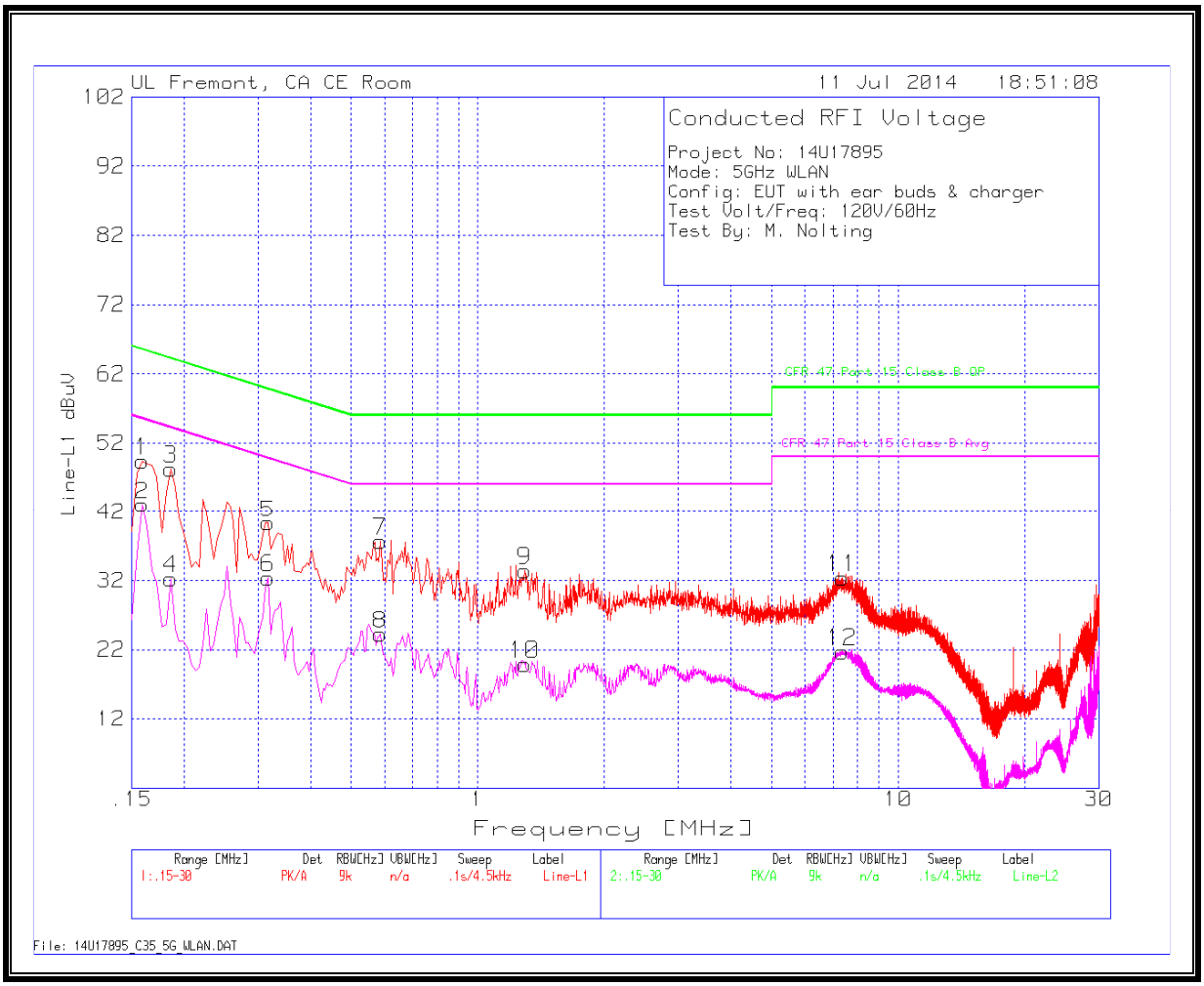
The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

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

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

RESULTS

LINE 1 RESULTS

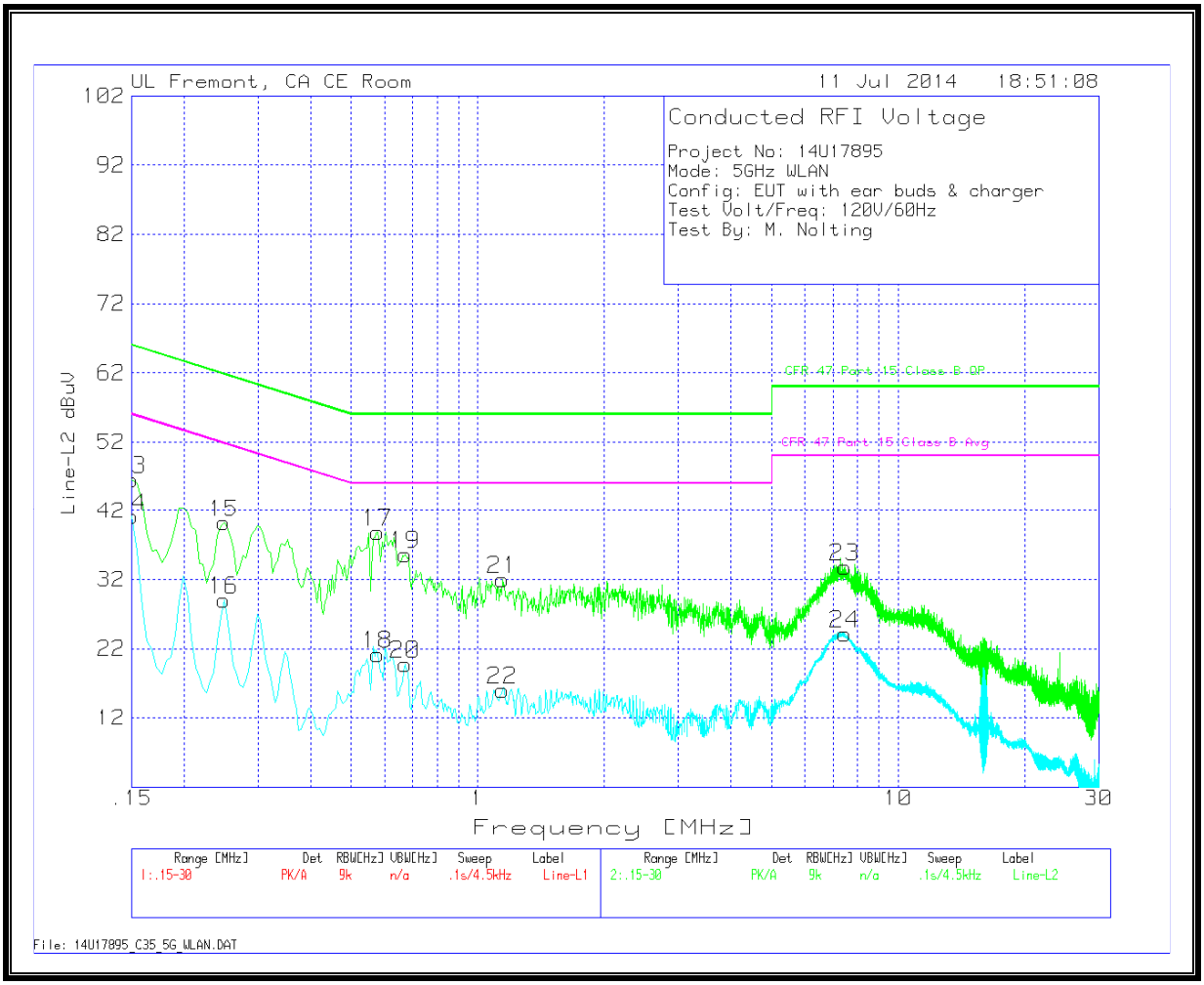


Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	Margin to Limit (dB)	CFR 47 Part 15 Class B Avg	Margin to Limit (dB)
1	.159	48.06	PK	1.3	0	49.36	65.5	-16.14	-	-
2	.159	41.72	Av	1.3	0	43.02	-	-	55.5	-12.48
3	.186	47.23	PK	1	0	48.23	64.2	-15.97	-	-
4	.186	31.21	Av	1	0	32.21	-	-	54.2	-21.99
5	.3165	39.81	PK	.5	0	40.31	59.8	-19.49	-	-
6	.3165	31.91	Av	.5	0	32.41	-	-	49.8	-17.39
7	.5865	37.37	PK	.3	0	37.67	56	-18.33	-	-
8	.5865	23.9	Av	.3	0	24.2	-	-	46	-21.8
9	1.293	33.09	PK	.2	.1	33.39	56	-22.61	-	-
10	1.293	19.59	Av	.2	.1	19.89	-	-	46	-26.11
11	7.368	32.06	PK	.2	.1	32.36	60	-27.64	-	-
12	7.368	21.44	Av	.2	.1	21.74	-	-	50	-28.26

PK - Peak detector; Av - Average detection

LINE 2 RESULTS



Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	Margin to Limit (dB)	CFR 47 Part 15 Class B Avg	Margin to Limit (dB)
13	.15	45.04	PK	1.5	0	46.54	66	-19.46	-	-
14	.15	39.7	Av	1.5	0	41.2	-	-	56	-14.8
15	.249	39.51	PK	.7	0	40.21	61.8	-21.59	-	-
16	.249	28.38	Av	.7	0	29.08	-	-	51.8	-22.72
17	.5775	38.57	PK	.3	0	38.87	56	-17.13	-	-
18	.5775	20.9	Av	.3	0	21.2	-	-	46	-24.8
19	.672	35.36	PK	.3	0	35.66	56	-20.34	-	-
20	.672	19.47	Av	.3	0	19.77	-	-	46	-26.23
21	1.1445	31.72	PK	.3	0	32.02	56	-23.98	-	-
22	1.1445	15.76	Av	.3	0	16.06	-	-	46	-29.94
23	7.476	33.55	PK	.2	.1	33.85	60	-26.15	-	-
24	7.476	23.78	Av	.2	.1	24.08	-	-	50	-25.92

PK - Peak detector; Av - Average detection

12. DYNAMIC FREQUENCY SELECTION

12.1. OVERVIEW

12.1.1. LIMITS

INDUSTRY CANADA

IC RSS-210 is closely harmonized with FCC Part 15 DFS rules. The deviations are as follows:

RSS-210 Issue 7 A9.4 (b) (ii) **Channel Availability Check Time:** …

Additional requirements for the band 5600-5650 MHz: Until further notice, devices subject to this Section shall not be capable of transmitting in the band 5600-5650 MHz, so that Environment Canada weather radars operating in this band are protected.

FCC

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

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

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

Table 2: Applicability of DFS requirements during normal operation

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

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

Maximum Transmit Power	Value (See Note 1,2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna
Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01

Table 4: DFS Response requirement values

Parameter	Value
Non-occupancy period	30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds
Channel Closing Transmission Time	200 milliseconds + approx. 60 milliseconds over remaining 10 second period
The instant that the *Channel Move Time* and the *Channel Closing Transmission Time* begins is as follows: For the Short pulse radar Test Signals this instant is the end of the *Burst*. For the Frequency Hopping radar Test Signal, this instant is the end of the last radar burst generated. For the Long Pulse radar Test Signal this instant is the end of the 12-second period defining the radar transmission. The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate channel changes (an aggregate of approximately 60 milliseconds) during the remainder of the 10-second period. The aggregate duration of control signals will not count quiet periods in between transmissions.	

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (Microseconds)	PRI (Microseconds)	Pulses	Minimum Percentage of Successful Detection	Minimum Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a (of KDB 905462 D02) Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A		60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

Table 6 – Long Pulse Radar Test Signal

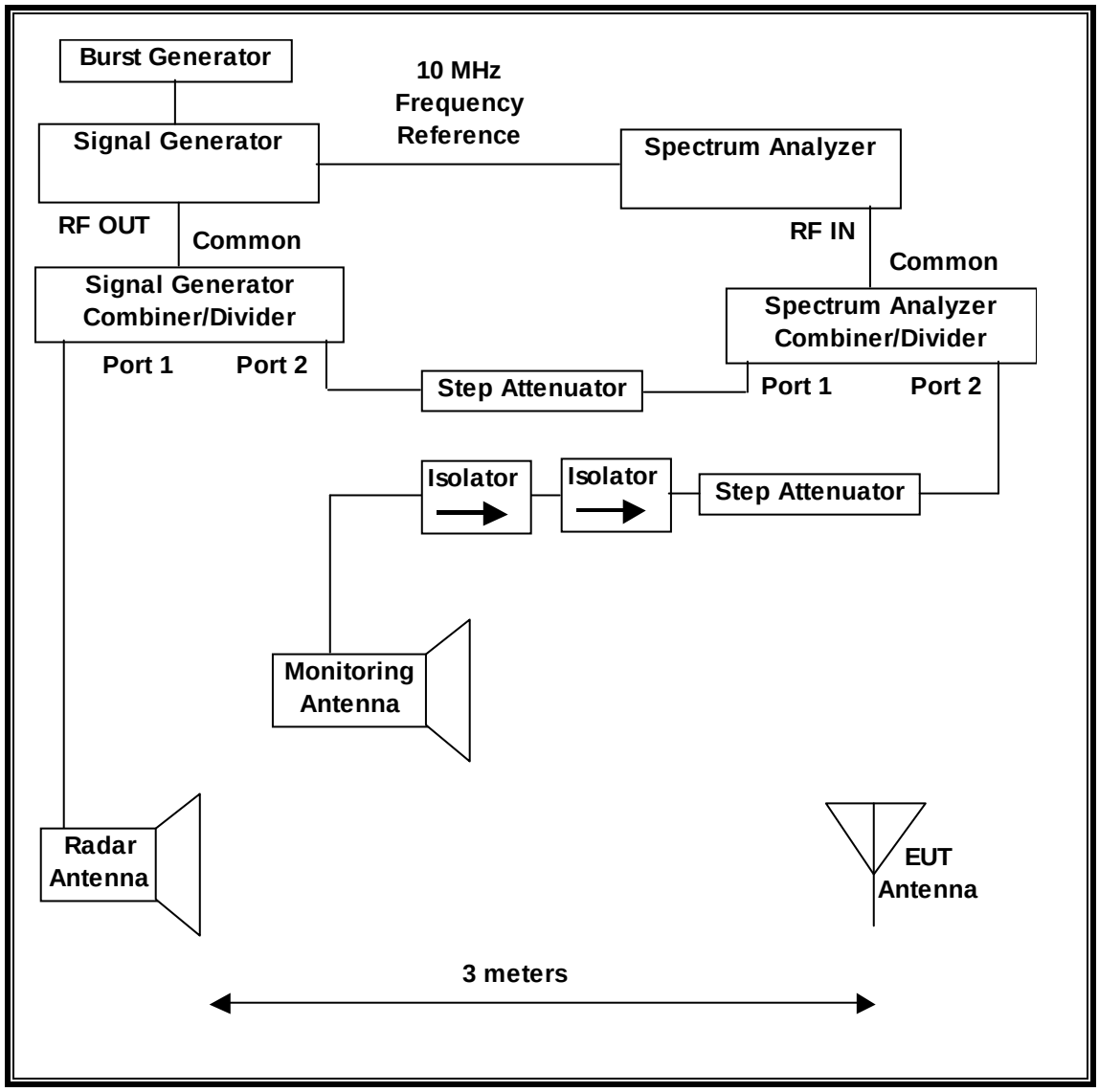
Radar Waveform	Bursts	Pulses per Burst	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Minimum Percentage of Successful Detection	Minimum Trials
5	8-20	1-3	50-100	5-20	1000-2000	80%	30

Table 7 – Frequency Hopping Radar Test Signal

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

12.1.2. TEST AND MEASUREMENT SYSTEM

RADIATED METHOD SYSTEM BLOCK DIAGRAM



SYSTEM OVERVIEW

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

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

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

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

SYSTEM CALIBRATION

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

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

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

ADJUSTMENT OF DISPLAYED TRAFFIC LEVEL

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

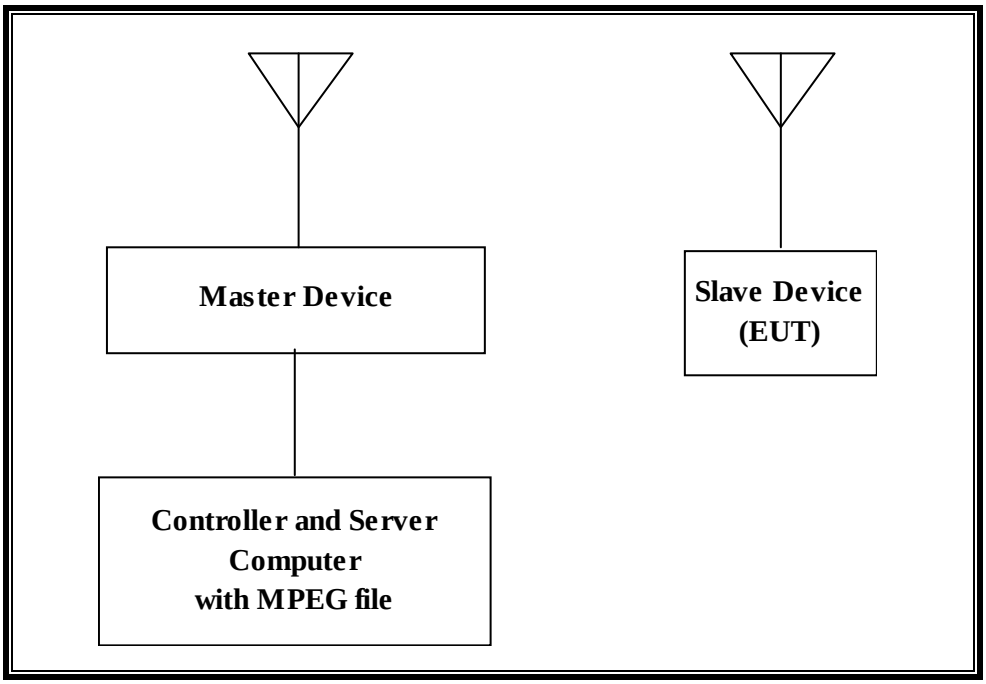
TEST AND MEASUREMENT EQUIPMENT

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

TEST EQUIPMENT LIST				
Description	**Manufacturer**	**Model**	**Asset Number**	**Cal Due**
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01178	09/10/14
Vector Signal Generator, 20GHz	Agilent / HP	E8267C	C01066	09/12/14

12.1.3. SETUP OF EUT (CLIENT MODE)

RADIATED METHOD EUT TEST SETUP



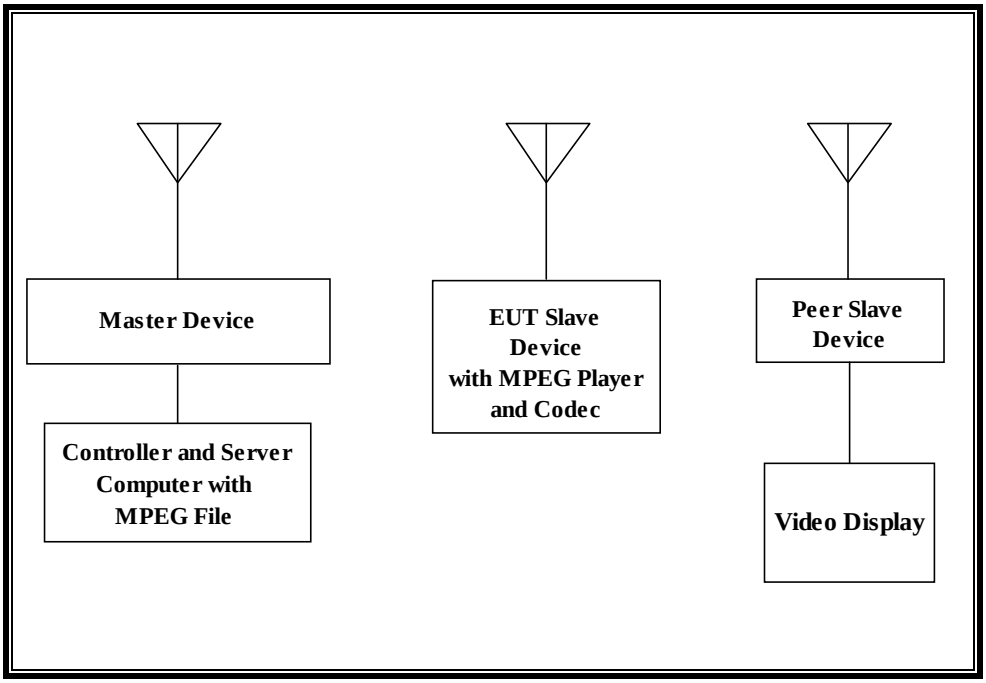
SUPPORT EQUIPMENT

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

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID**
802.11a/b/g/n/ac Wireless Access Point 2 (Master Device)	Apple	A1470	C86KXE50F9H6	BCGA1470
Notebook PC (Controller/Server)	Apple	MacBook A1181	W865101LWGK	DoC
AC Adapter (Controller/Server PC)	Delta Electronics	A1244	MV01000FD9DYA	DoC

12.1.4. SETUP OF EUT (CLIENT-TO-CLIENT COMMUNICATIONS MODE)

RADIATED METHOD EUT TEST SETUP



SUPPORT EQUIPMENT

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

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID**
Notebook PC (Controller/Server)	Apple	MacBook A1181	W865101LWGK	DoC
AC Adapter (Controller/Server PC)	Delta Electronics	A1244	MV01000FD9DYA	DoC
Apple TV (Peer Slave Device)	Apple	A1469	C07K202CFFF1	BCGA1469
Video Display	Dell	U2410f	CN-0FJ525N-72872 1B5-AGAL	DoC

12.1.5. DESCRIPTION OF EUT

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

The EUT is a Slave Device without Radar Detection.

The highest power level within these bands is 24.09 dBm EIRP in the 5250-5350 MHz band and 24.84 dBm EIRP in the 5470-5725 MHz band.

The only antenna assembly utilized with the EUT has a gain of –5.10 dBi in the 5250-5350 MHz band and –6.42 dBi in the 5470-5725 MHz band.

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

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

The EUT uses one transmitter/receiver chain connected to an antenna to perform radiated tests.

WLAN traffic is generated by streaming the video file TestFile.mp2 “6 ½ Magic Hours” from the Master to the Slave in full motion video mode using Safari web browser.

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

The EUT utilizes the 802.11n architecture. Two nominal channel bandwidths are implemented: 20 MHz and 40 MHz.

The software installed in the EUT is 11A5400f.

UNIFORM CHANNEL SPREADING

This requirement is not applicable to Slave radio devices.

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

The Master Device is an Apple, Inc. Access Point, FCC ID: BCGA1470. The minimum antenna gain for the Master Device is 1.4 dBi.

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

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

The software installed in the access point is 7.7D3.

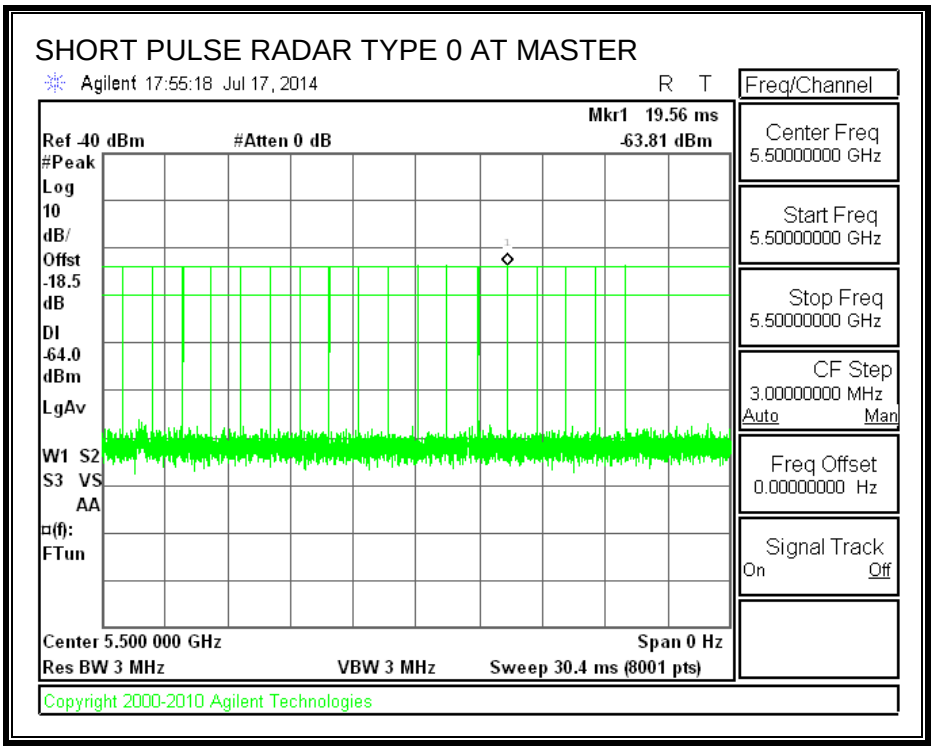
12.2. CLIENT MODE RESULTS FOR 20 MHz BANDWIDTH

12.2.1. TEST CHANNEL

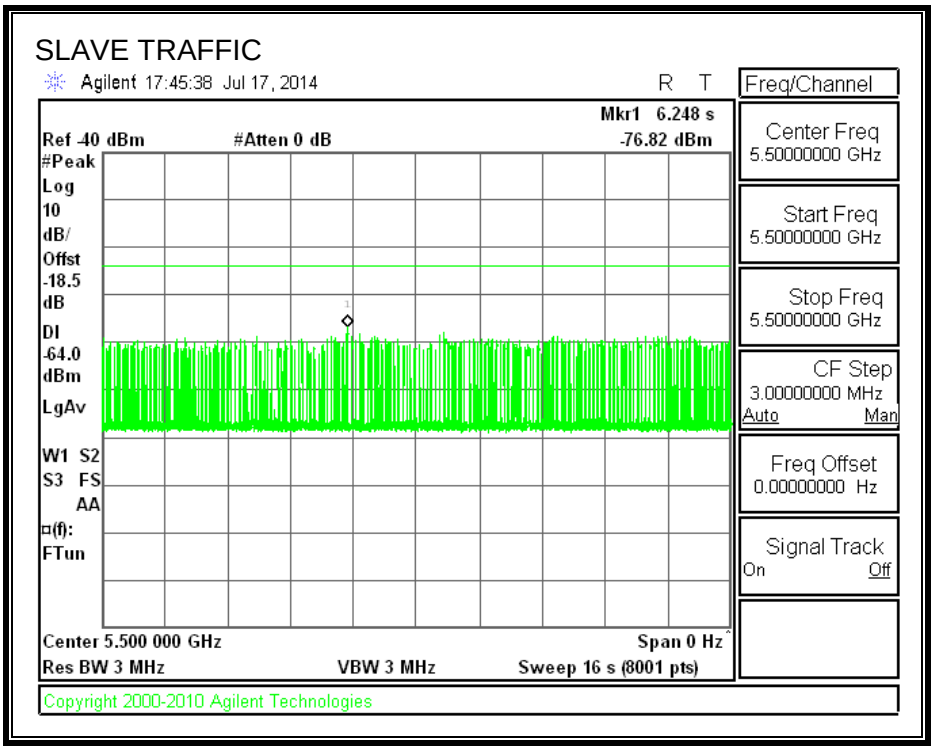
All tests were performed at a channel center frequency of 5500 MHz.

12.2.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



TRAFFIC



12.2.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

12.2.4. MOVE AND CLOSING TIME

REPORTING NOTES

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

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

The aggregate channel closing transmission time is calculated as follows:

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

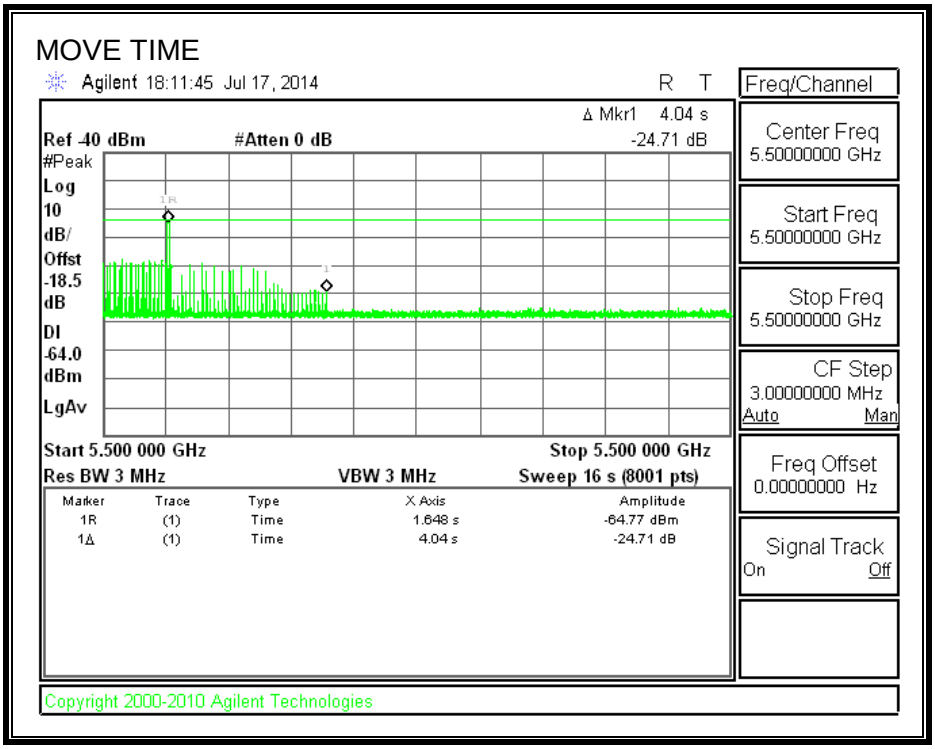
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

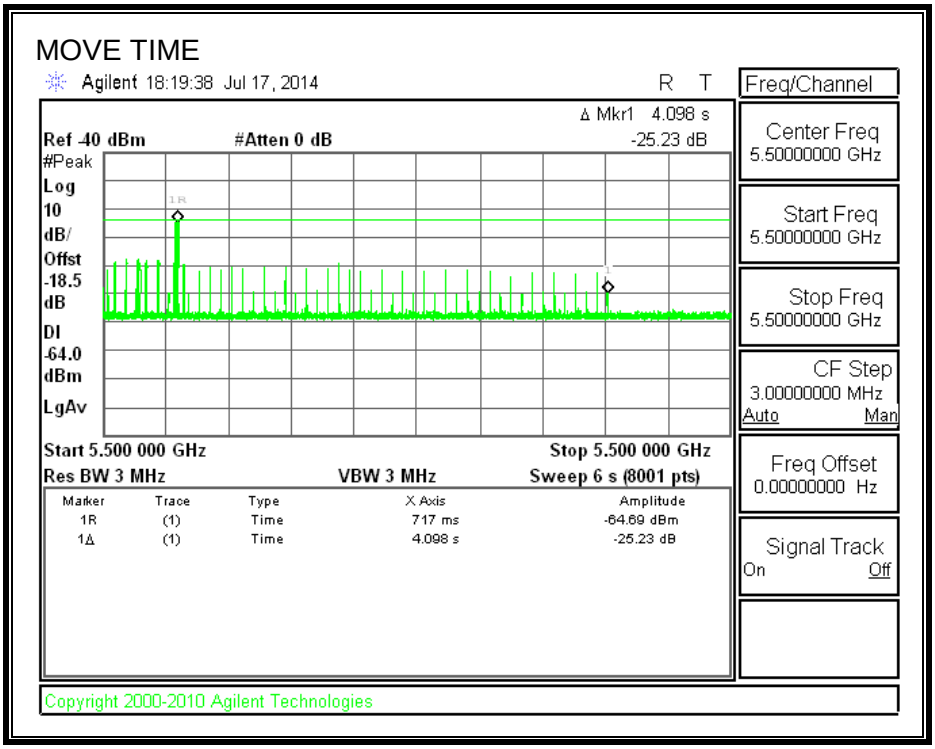
Channel Move Time (sec)	Limit (sec)
4.098	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
48.75	60

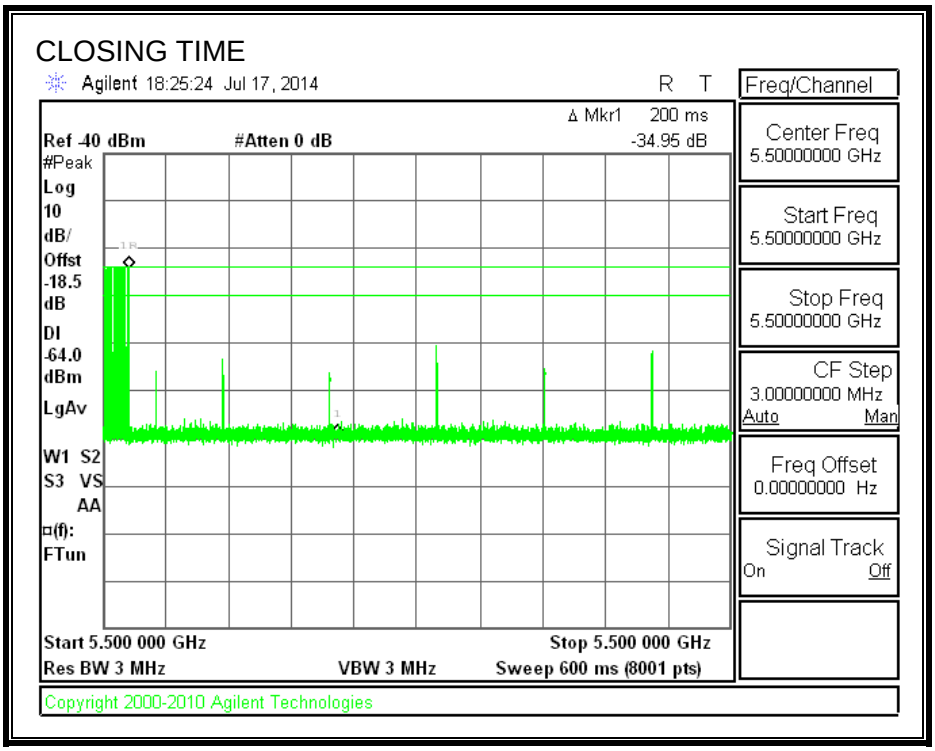
MOVE TIME 16 SECOND



MOVE TIME 6 SECOND



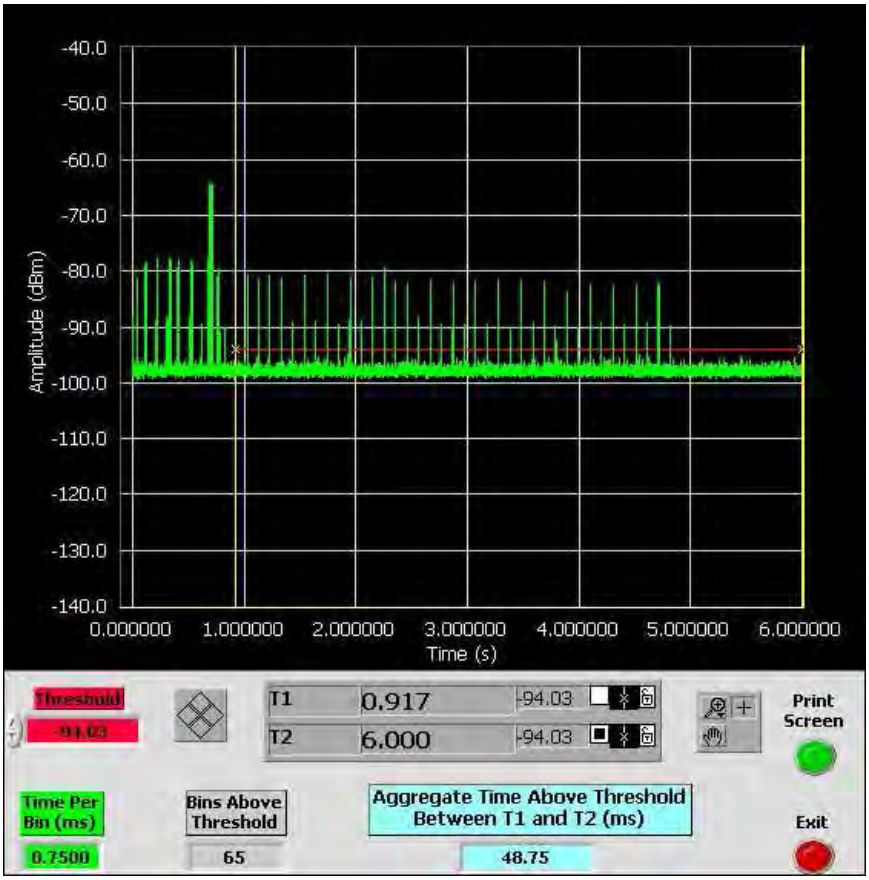
CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.

AGGREGATE CLOSING TIME



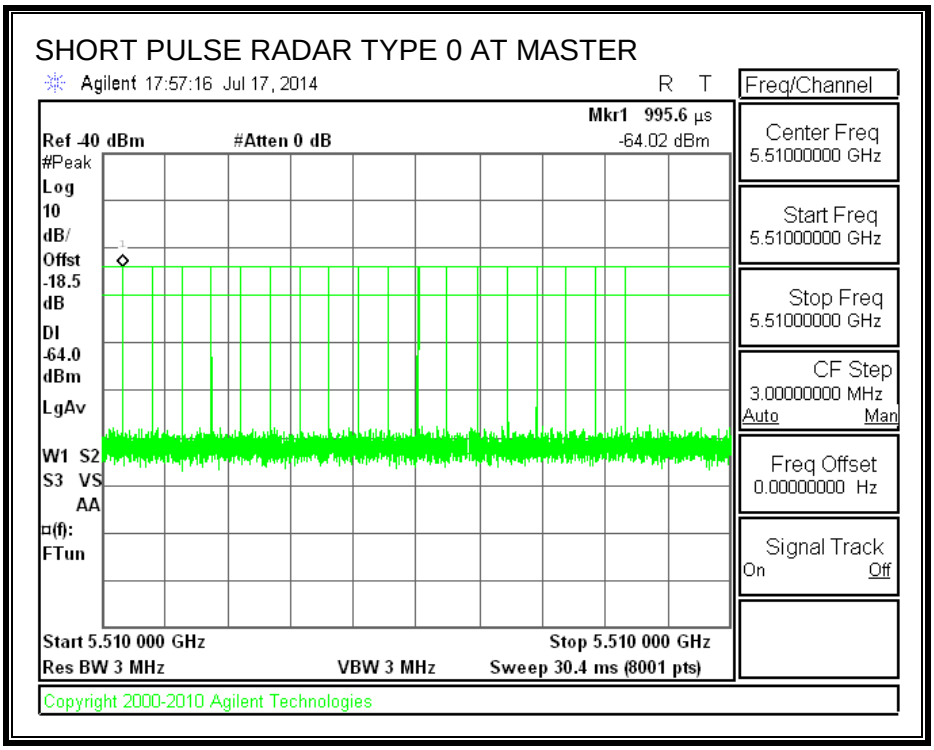
12.3. CLIENT MODE RESULTS FOR 40 MHz BANDWIDTH

12.3.1. TEST CHANNEL

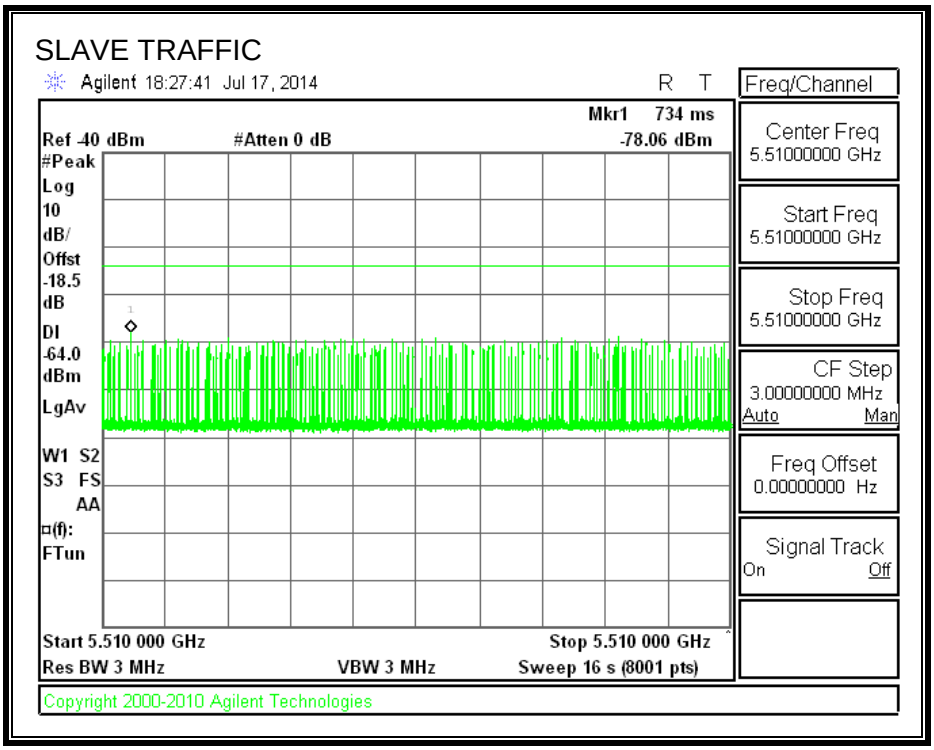
All tests were performed at a channel center frequency of 5510 MHz.

12.3.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



TRAFFIC



12.3.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

12.3.4. MOVE AND CLOSING TIME

REPORTING NOTES

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

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

The aggregate channel closing transmission time is calculated as follows:

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

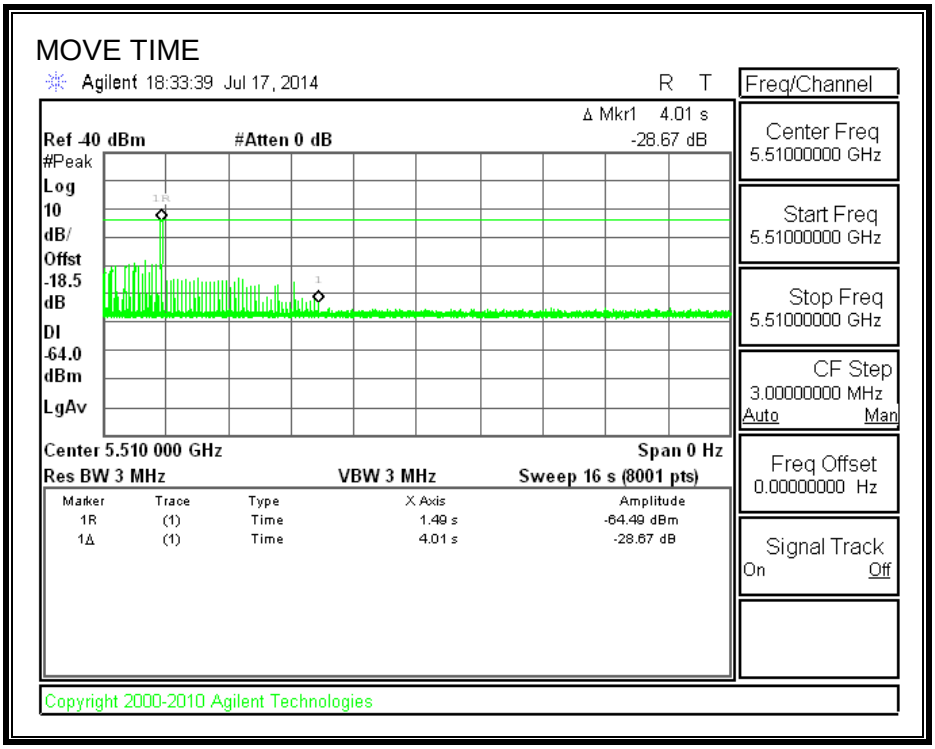
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

RESULTS

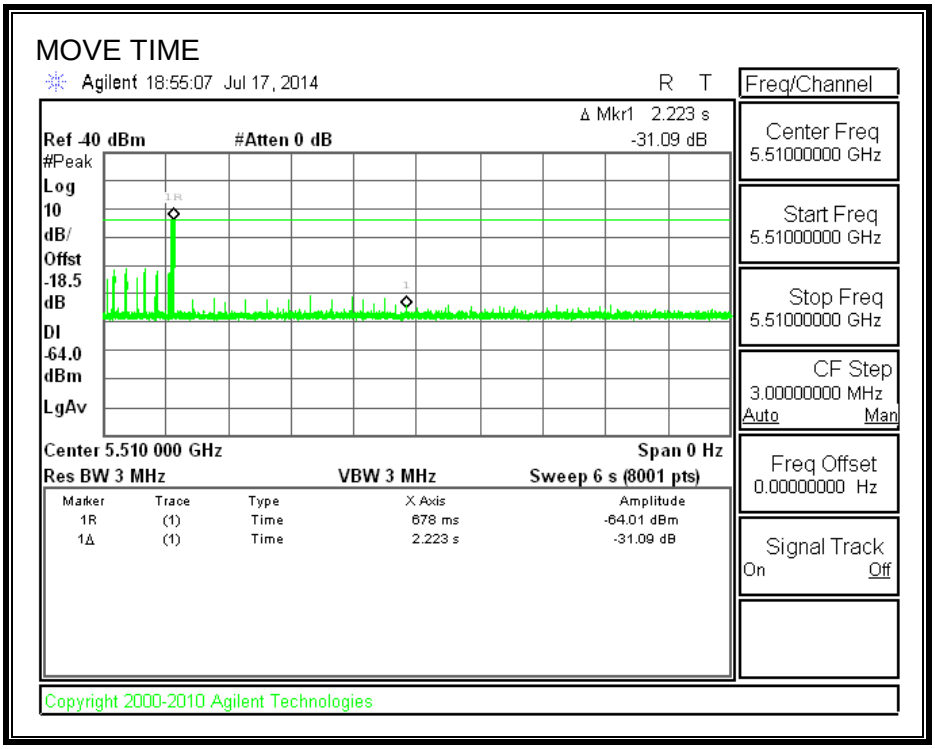
Channel Move Time (sec)	Limit (sec)
2.223	10

Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
7.5	60

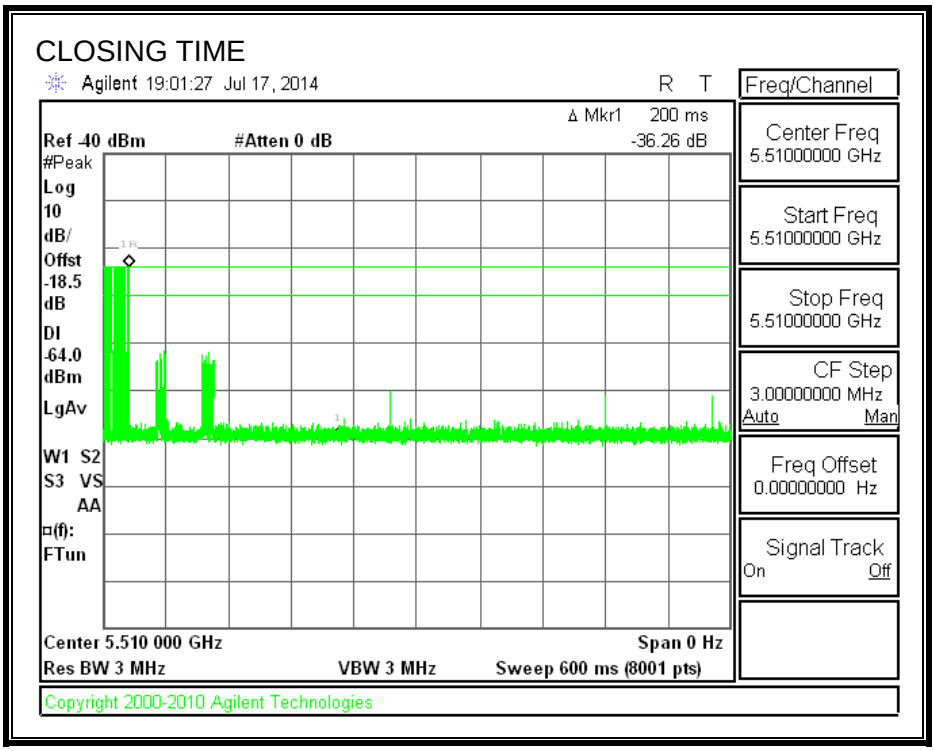
MOVE TIME



MOVE TIME



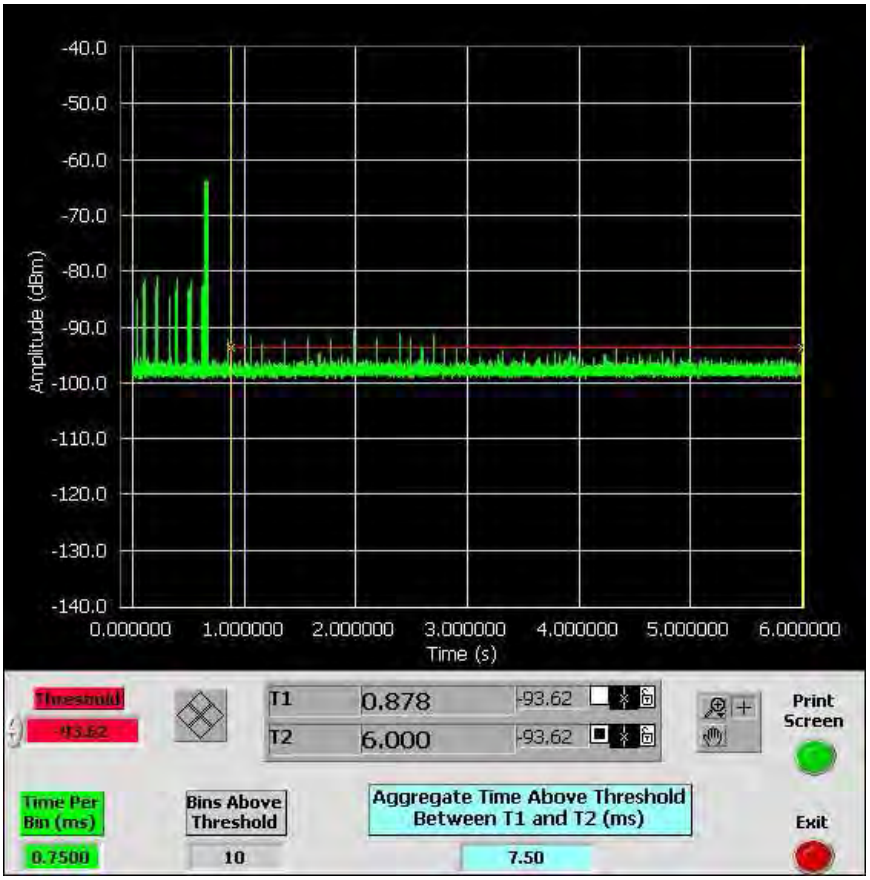
CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.

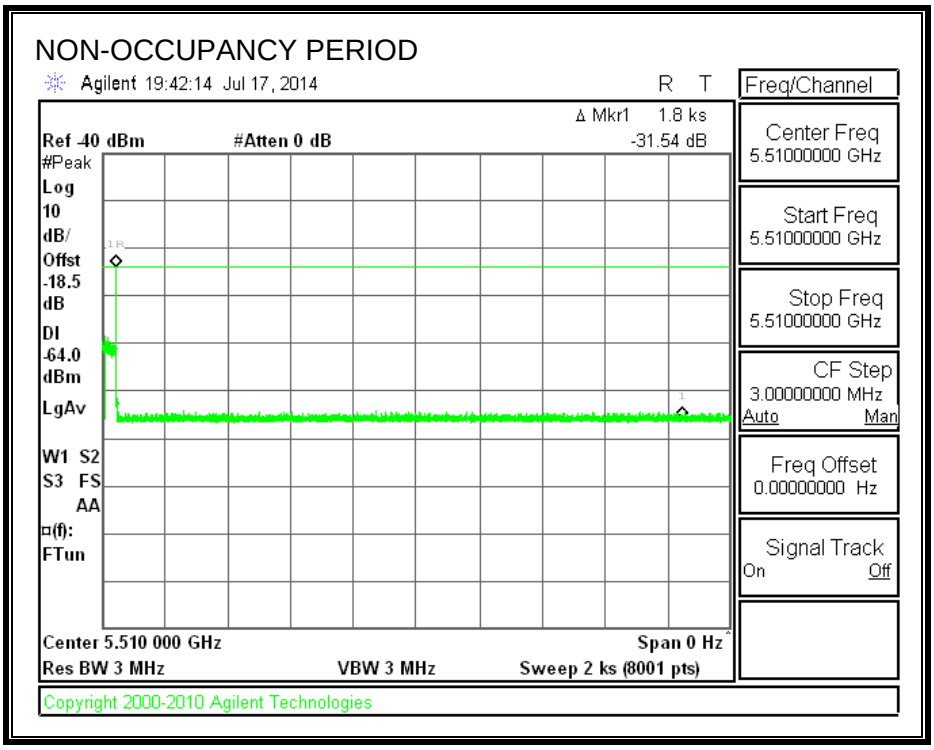
AGGREGATE CLOSING TIME



12.3.5. NON-OCCUPANCY PERIOD

RESULTS

No EUT transmissions were observed on the test channel during the 30-minute observation time.



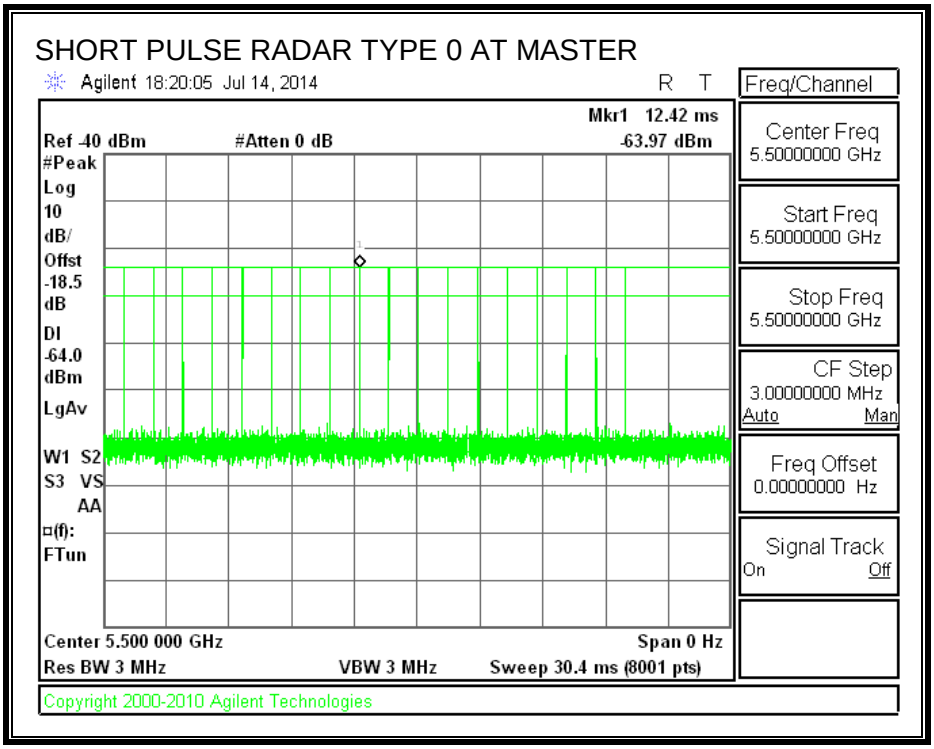
12.4. CLIENT-TO-CLIENT COMMUNICATIONS MODE RESULTS FOR 20 MHz BANDWIDTH

12.4.1. TEST CHANNEL

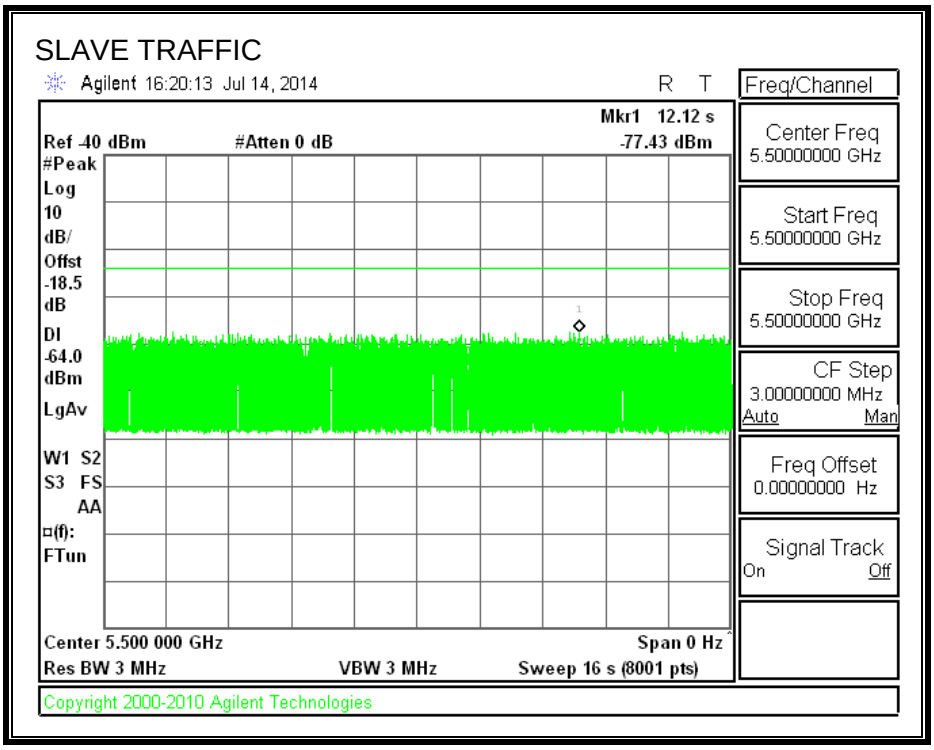
All tests were performed at a channel center frequency of 5500 MHz.

12.4.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



TRAFFIC



12.4.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

12.4.4. MOVE AND CLOSING TIME

REPORTING NOTES

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

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

The aggregate channel closing transmission time is calculated as follows:

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

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

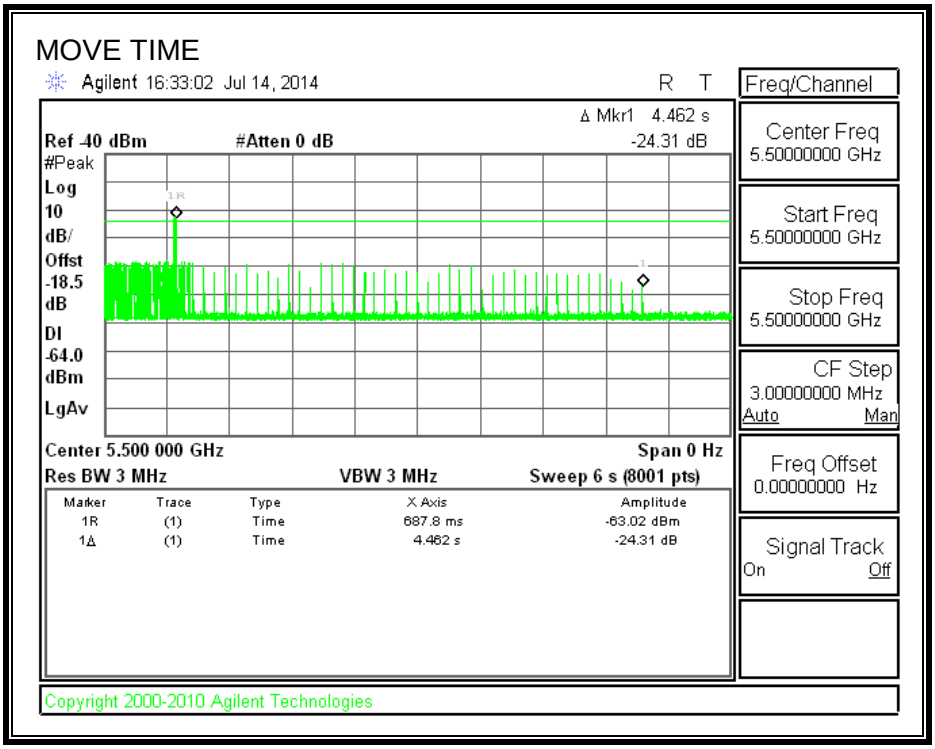
RESULTS

Channel Move Time (sec)	Limit (sec)
3.894	10

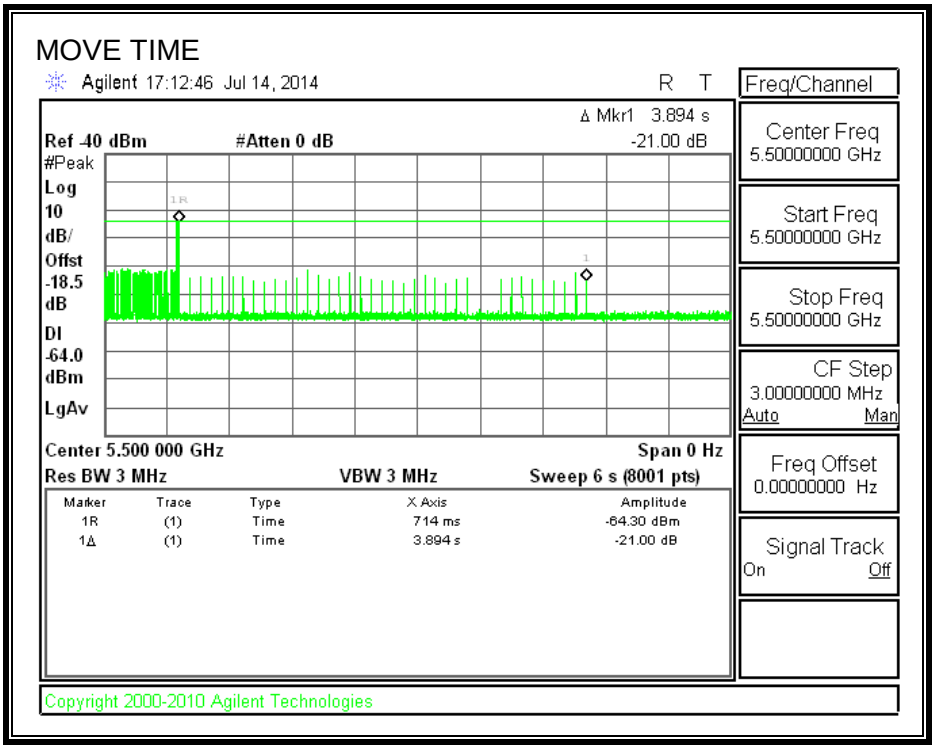
Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
30.75	60

MOVE TIME

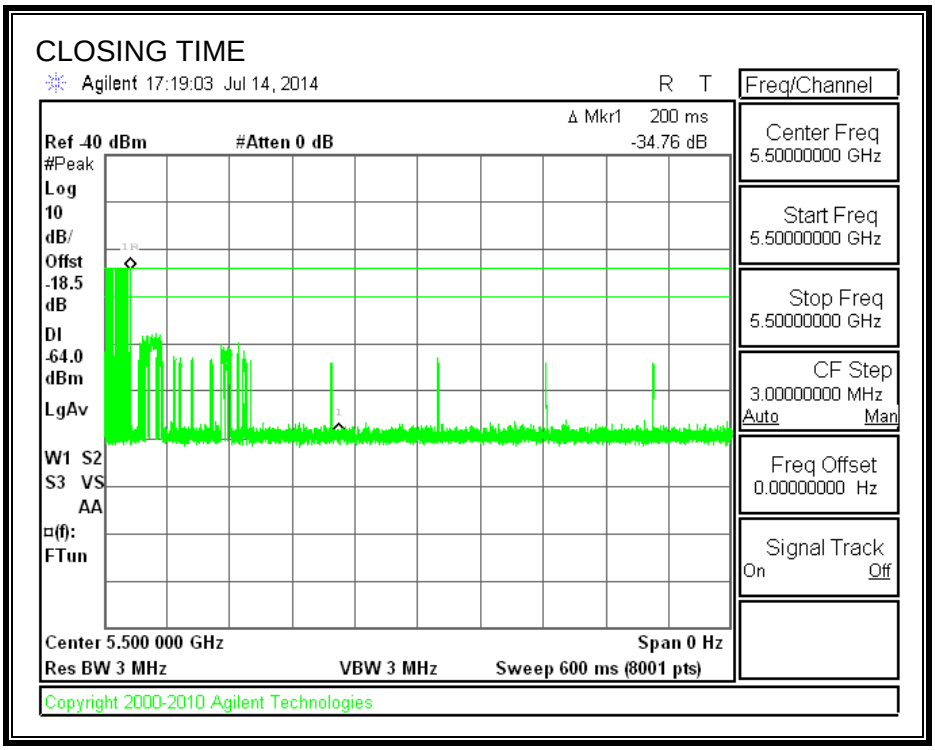
16 SECOND SWEEP:



6 SECOND SWEEP:



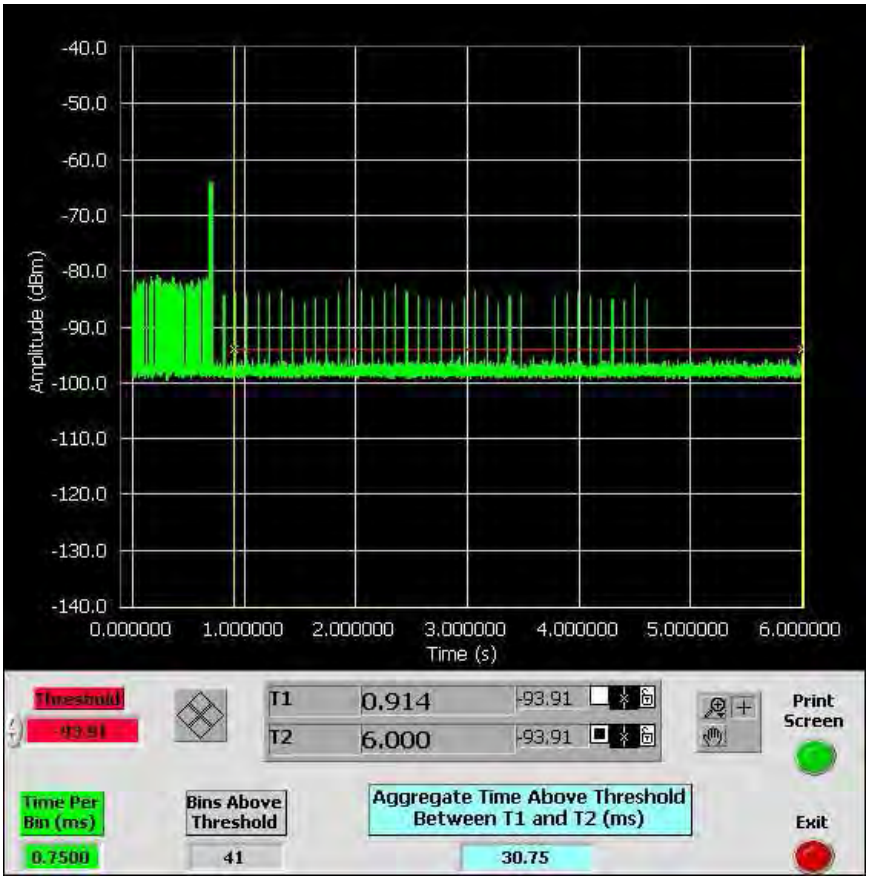
CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.

AGGREGATE CLOSING TIME



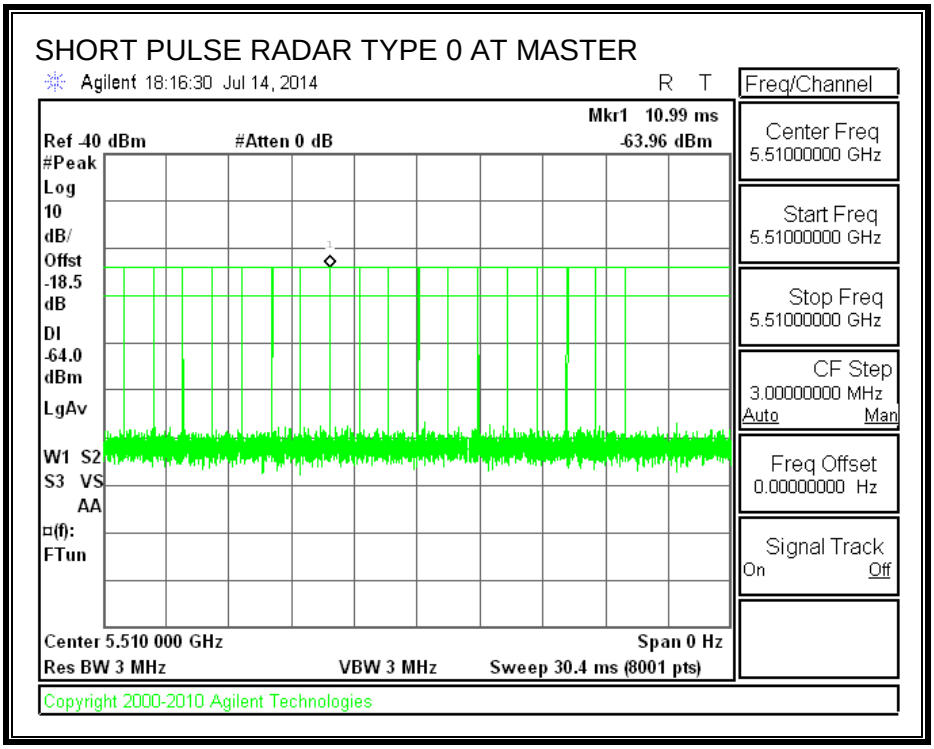
12.5. CLIENT-TO-CLIENT COMMUNICATIONS MODE RESULTS FOR 40 MHz BANDWIDTH

12.5.1. TEST CHANNEL

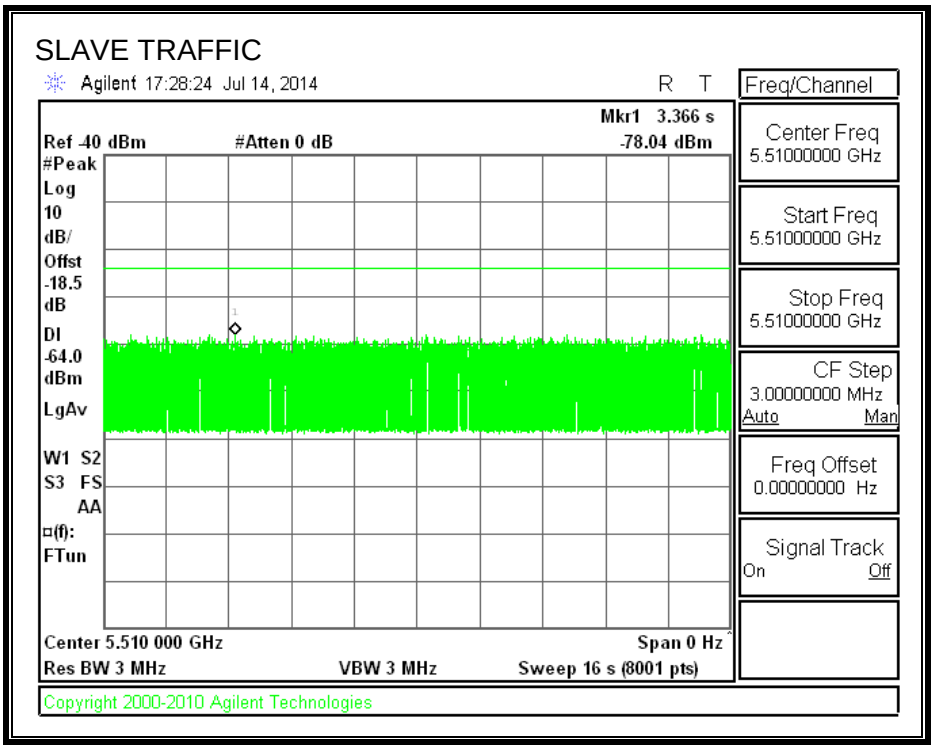
All tests were performed at a channel center frequency of 5510 MHz.

12.5.2. RADAR WAVEFORM AND TRAFFIC

RADAR WAVEFORM



TRAFFIC



12.5.3. OVERLAPPING CHANNEL TESTS

RESULTS

These tests are not applicable.

12.5.4. MOVE AND CLOSING TIME

REPORTING NOTES

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

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

The aggregate channel closing transmission time is calculated as follows:

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

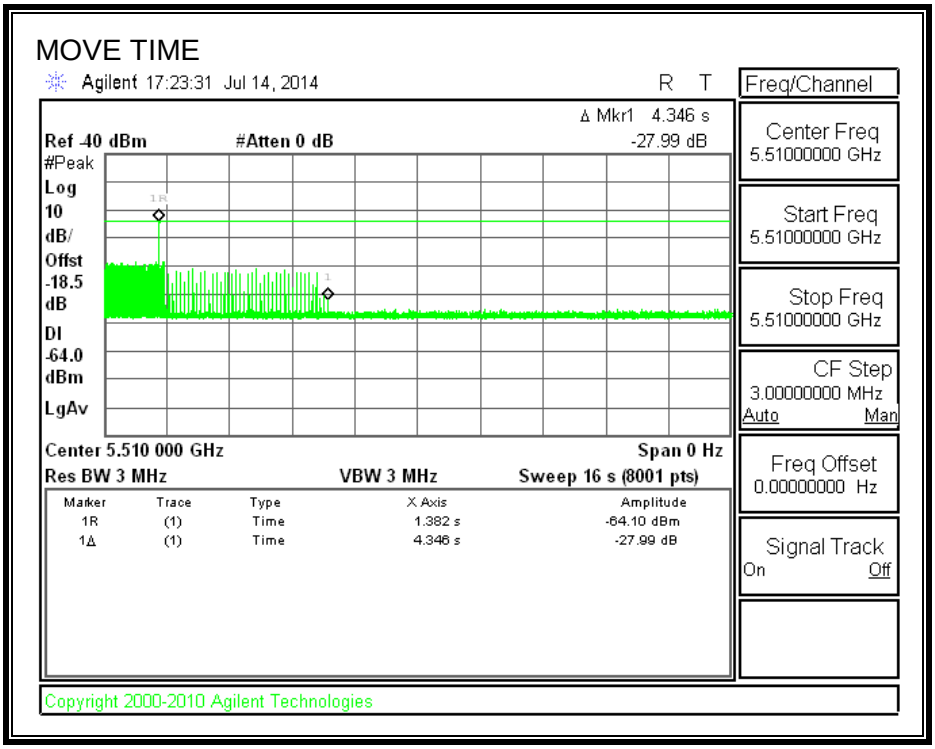
The observation period over which the aggregate time is calculated begins at (Reference Marker + 200 msec) and ends no earlier than (Reference Marker + 10 sec).

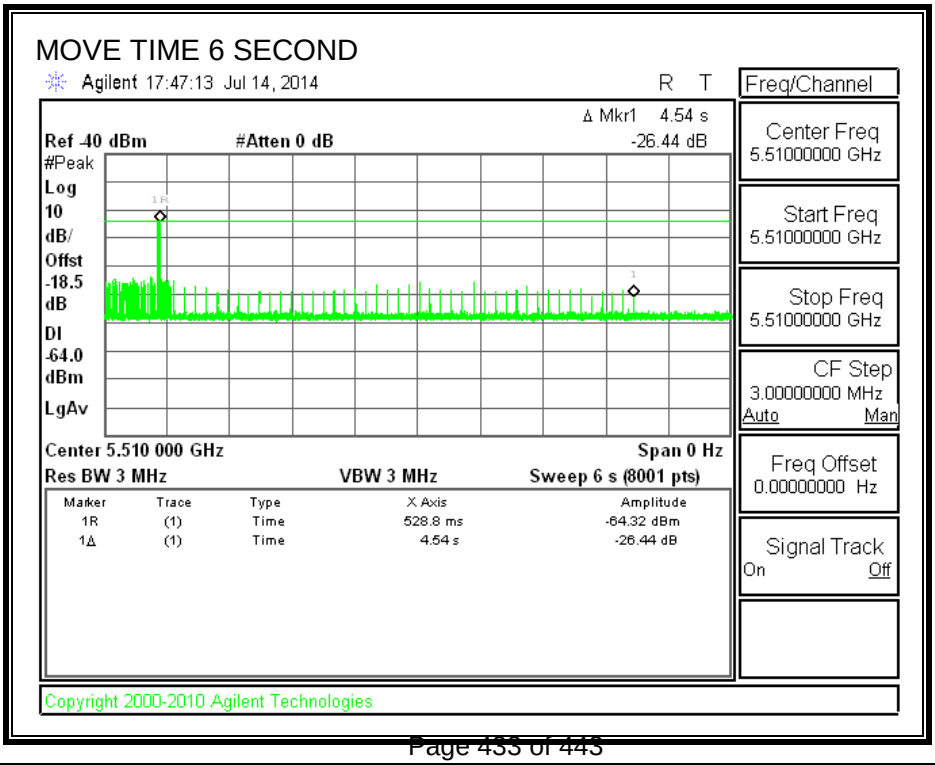
RESULTS

Channel Move Time (sec)	Limit (sec)
4.540	10

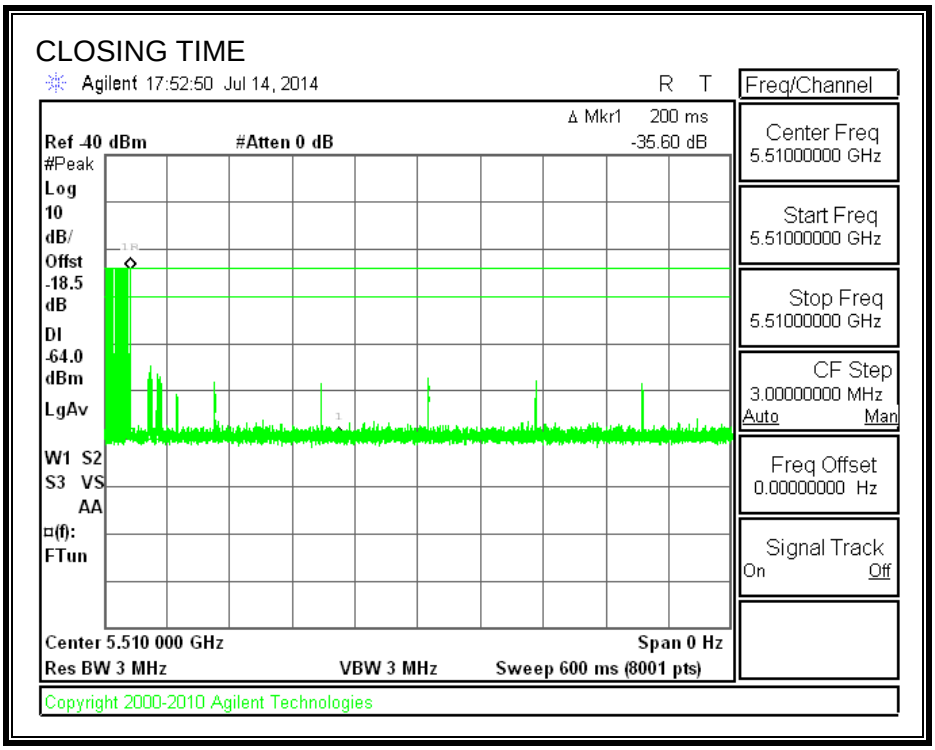
Aggregate Channel Closing Transmission Time (msec)	Limit (msec)
54.0	60

MOVE TIME





CHANNEL CLOSING TIME



AGGREGATE CHANNEL CLOSING TRANSMISSION TIME

Only intermittent transmissions are observed during the aggregate monitoring period.

AGGREGATE CLOSING TIME