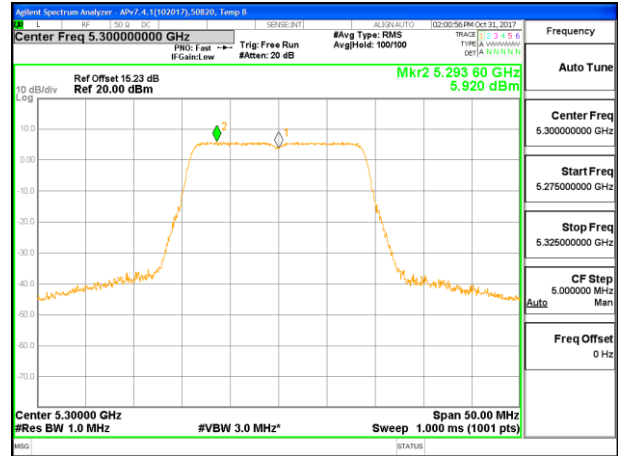
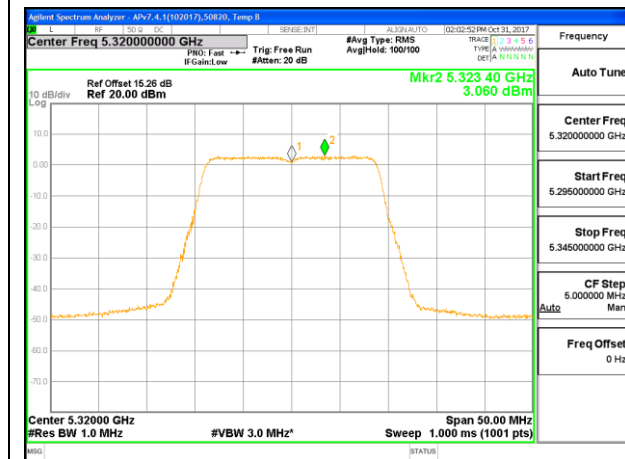


LOW CHANNEL



MID CHANNEL



HIGH CHANNEL

**4.5.5. 802.11n HT40 MODE IN THE 5.3 GHz BAND**

**1TX Antenna WF4 (FCC)**

	(MHz)	26 dB BW (MHz)	99% BW (MHz)	Gain (dBi)
Low	5270	40.90	36.55	3.90
High	5310	40.90	36.32	3.90

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm)	IC PSD Limit (dBm)	PSD Limit (dBm)
Low	5270	24.00	24.00	30.00	24.00	11.00	11.00	11.00
High	5310	24.00	24.00	30.00	24.00	11.00	11.00	11.00

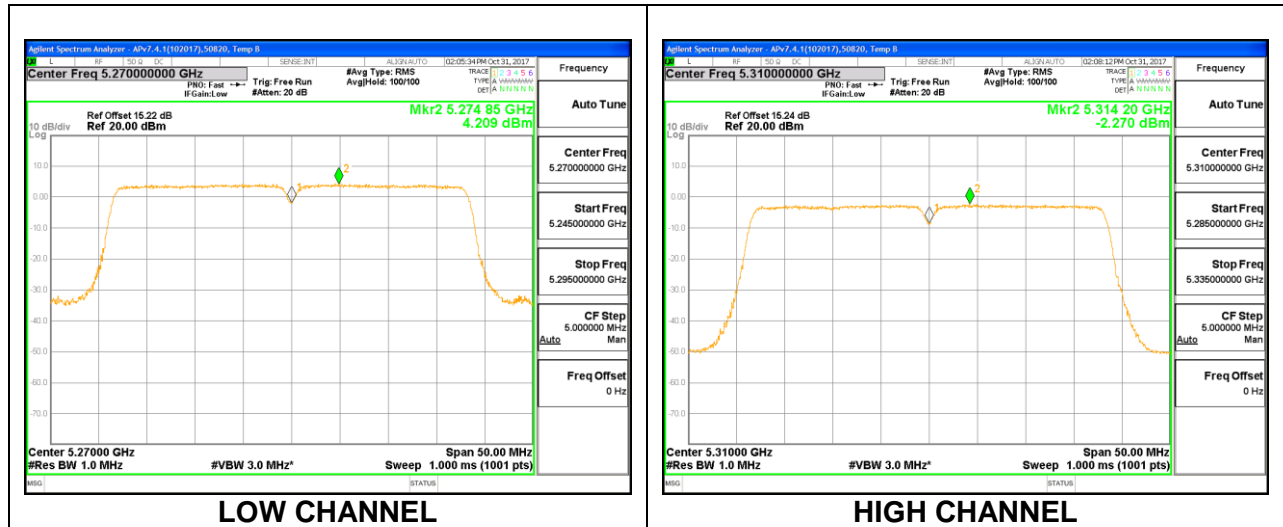
<b>Duty Cycle CF (dB)</b>	0.09	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
---------------------------	------	---

**Output Power Results**

Channel	Frequency (MHz)	WF4 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	18.82	18.82	24.00	-5.18
High	5310	12.40	12.40	24.00	-11.60

**PSD Results**

Channel	Frequency (MHz)	WF4 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5270	4.209	4.299	11.00	-6.70
High	5310	-2.270	-2.180	11.00	-13.18



**4.5.6. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND**

**1TX Antenna WF4 (FCC)**

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Mid	5290	83.20	75.74	3.90

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm)	IC PSD Limit (dBm)	PSD Limit (dBm)
Mid	5290	24.00	24.00	30.00	24.00	11.00	11.00	11.00

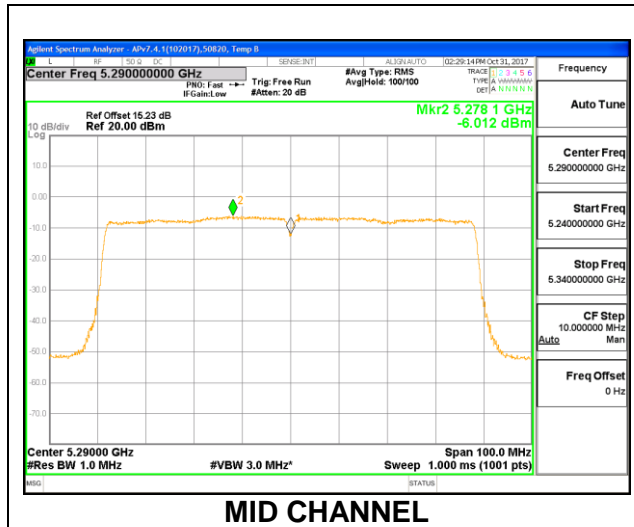
<b>Duty Cycle CF (dB)</b>	0.20	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
---------------------------	------	---

**Output Power Results**

Channel	Frequency (MHz)	WF4 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	11.43	11.43	24.00	-12.57

**PSD Results**

Channel	Frequency (MHz)	WF4 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Mid	5290	-6.012	-5.812	11.00	-16.81



**4.5.7. 802.11n HT20 MODE IN THE 5.6 GHz BAND**

**1TX Antenna WF4 (FCC)**

**Bandwidth, Antenna Gain, and Limits**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5500	22.15	4.20	24.00	11.00
Mid	5580	22.35	4.20	24.00	11.00
High	5700	22.3	4.20	24.00	11.00
144	5720	22.30	4.20	24.00	11.00

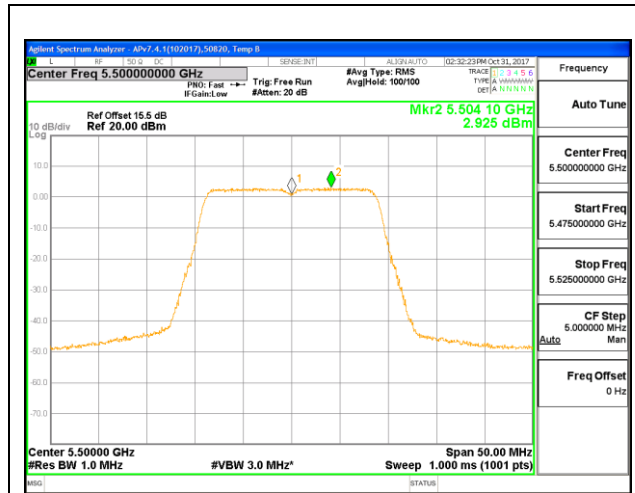
<b>Duty Cycle CF (dB)</b>	0.23	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
---------------------------	------	---

**Output Power Results**

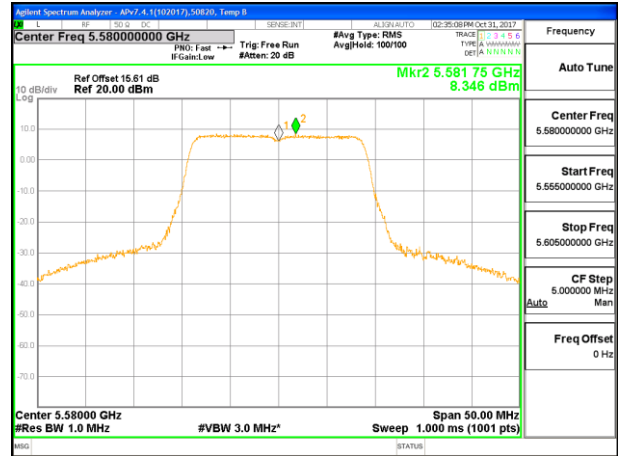
Channel	Frequency (MHz)	WF4 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	14.81	14.81	24.00	-9.19
Mid	5580	19.77	19.77	24.00	-4.23
High	5700	14.75	14.75	24.00	-9.25
144	5720	18.85	19.08	24.00	-4.92

**PSD Results**

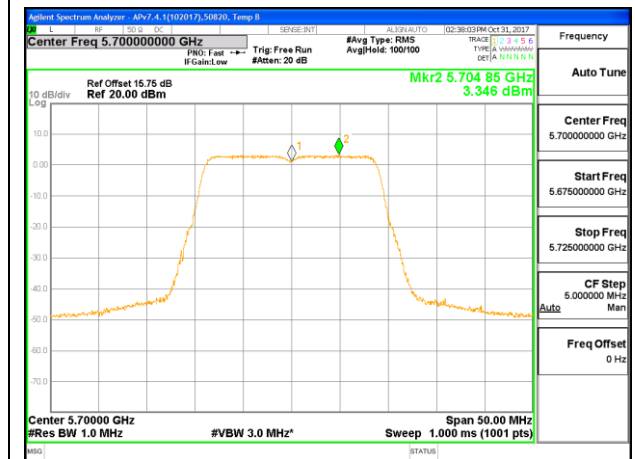
Channel	Frequency (MHz)	WF4 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5500	2.925	3.155	11.00	-7.85
Mid	5580	8.346	8.576	11.00	-2.42
High	5700	3.346	3.576	11.00	-7.42
144	5720	8.401	8.631	11.00	-2.37



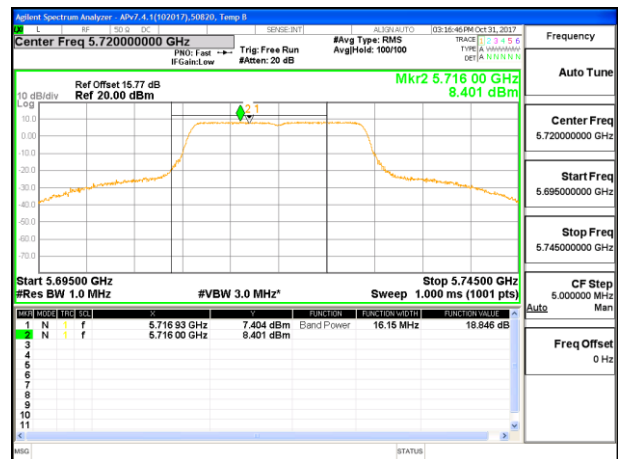
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



CHANNEL 144

**4.5.8. 802.11n HT40 MODE IN THE 5.6 GHz BAND**

**1TX Antenna WF4 (FCC)**

**Bandwidth, Antenna Gain, and Limits**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5510	40.90	4.20	24.00	11.00
Mid	5550	40.90	4.20	24.00	11.00
High	5670	40.90	4.20	24.00	11.00
142	5710	40.90	4.20	24.00	11.00

<b>Duty Cycle CF (dB)</b>	0.09	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
---------------------------	------	---

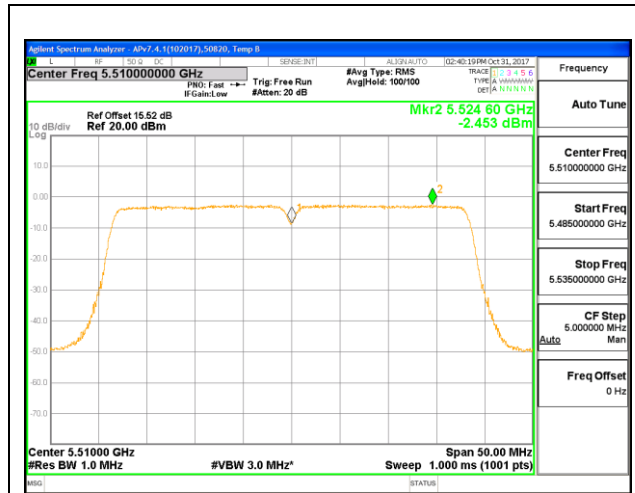
**Output Power Results**

Channel	Frequency (MHz)	WF4 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	12.30	12.30	24.00	-11.70
Mid	5550	19.42	19.42	24.00	-4.58
High	5670	16.84	16.84	24.00	-7.16
142	5710	21.49	21.58	24.00	-2.42

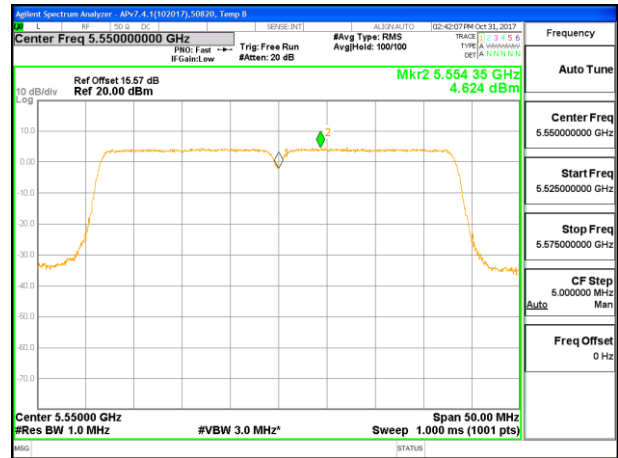
**PSD Results**

Channel	Frequency (MHz)	WF4 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5510	-2.453	-2.363	11.00	-13.36
Mid	5550	4.624	4.714	11.00	-6.29
High	5670	2.711	2.801	11.00	-8.20
142	5710	7.348	7.438	11.00	-3.56

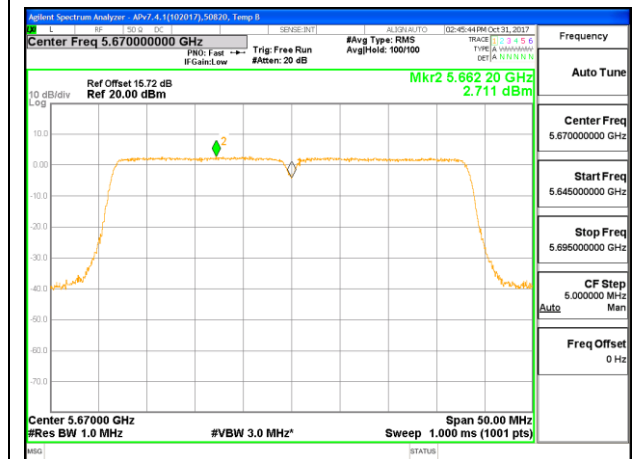




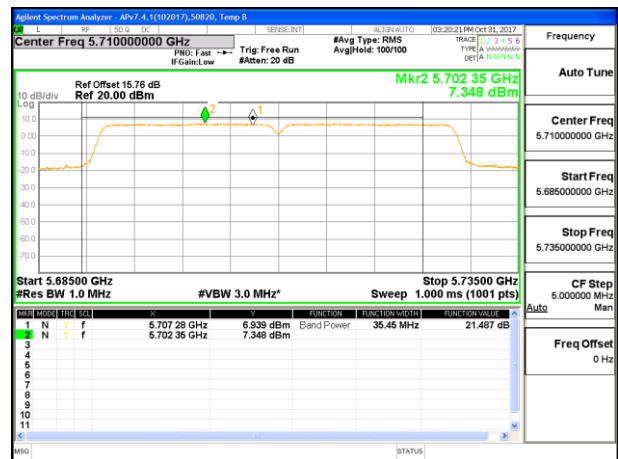
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



CHANNEL 142

**4.5.9. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND**

**1TX Antenna WF4 (FCC)**

**Bandwidth, Antenna Gain, and Limits**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5530	83.20	4.20	24.00	11.00
High	5610	83.00	4.20	24.00	11.00
138	5690	83.40	4.20	24.00	11.00

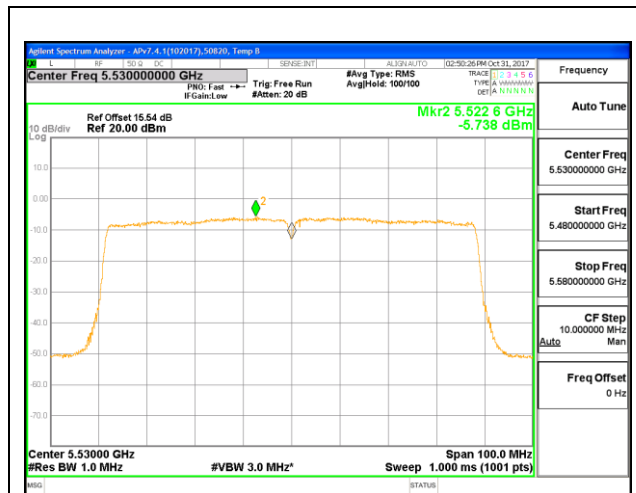
<b>Duty Cycle CF (dB)</b>	0.20	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
---------------------------	------	---

**Output Power Results**

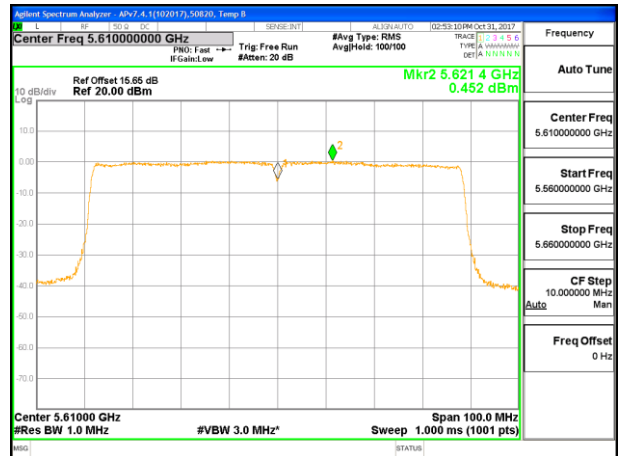
Channel	Frequency (MHz)	WF4 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	11.33	11.33	24.00	-12.67
High	5610	17.83	17.83	24.00	-6.17
138	5690	21.53	21.73	24.00	-2.27

**PSD Results**

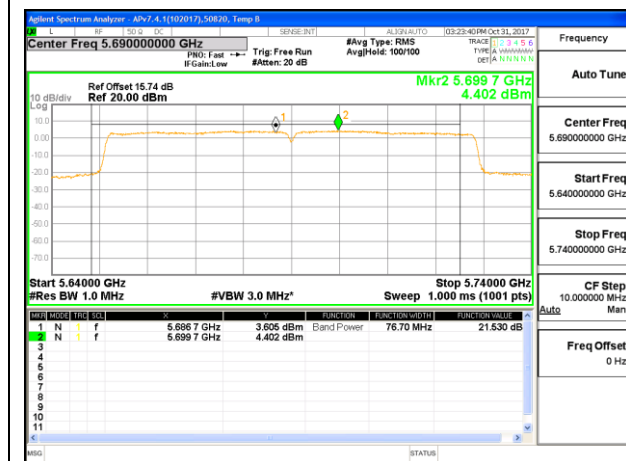
Channel	Frequency (MHz)	WF4 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5530	-5.738	-5.538	11.00	-16.54
High	5610	0.452	0.652	11.00	-10.35
138	5690	4.402	4.602	11.00	-6.40



LOW CHANNEL



HIGH CHANNEL



CHANNEL 138

**4.5.10. 802.11n HT20 MODE IN THE 5.8 GHz BAND**

**1TX Antenna WF4 (FCC)**

**Antenna Gain and Limit**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5745	22.15	3.10	30.00	30.00
Mid	5785	22.40	3.10	30.00	30.00
High	5825	22.35	3.10	30.00	30.00
144	5720	22.30	3.10	30.00	30.00

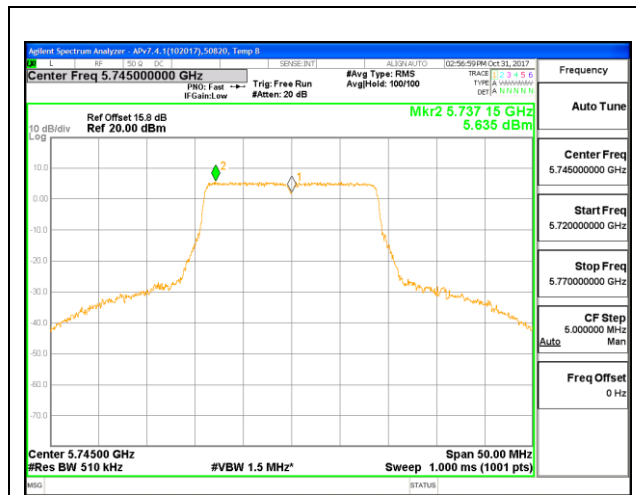
<b>Duty Cycle CF (dB)</b>	0.23	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
---------------------------	------	---

**Output Power Results**

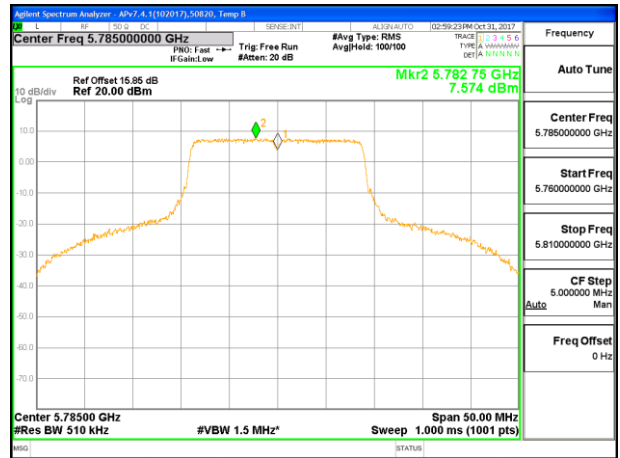
Channel	Frequency (MHz)	WF4 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	19.82	19.82	30.00	-10.18
Mid	5785	21.80	21.80	30.00	-8.20
High	5825	19.91	19.91	30.00	-10.09
144	5720	13.45	13.68	30.00	-16.32

**PSD Results**

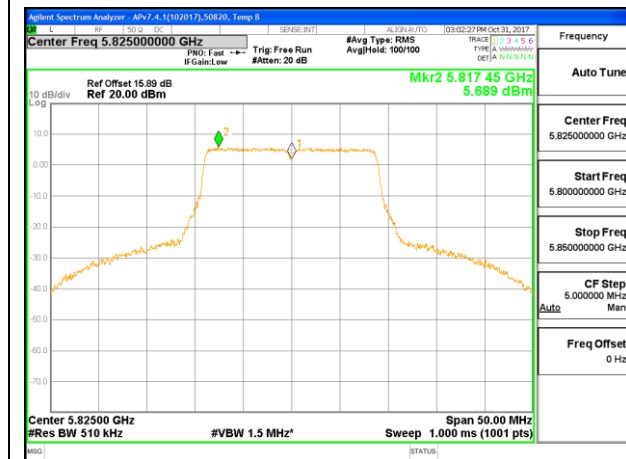
Channel	Frequency (MHz)	WF4 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5745	5.635	5.865	30.00	-24.14
Mid	5785	7.574	7.804	30.00	-22.20
High	5825	5.689	5.919	30.00	-24.08
144	5720	5.559	5.789	30.00	-24.21



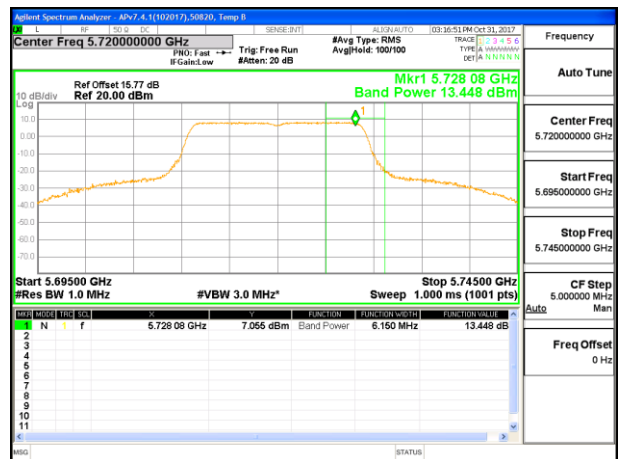
LOW CHANNEL



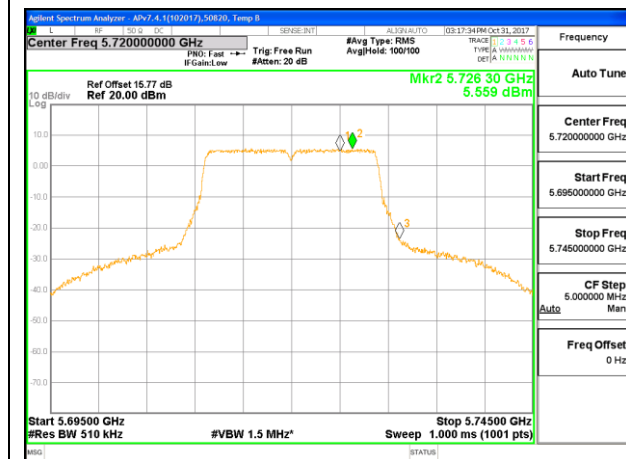
MID CHANNEL



HIGH CHANNEL



CHANNEL 144 OUTPUT POWER



CHANNEL 144 PSD

**4.5.11. 802.11n HT40 MODE IN THE 5.8 GHz BAND**

**1TX Antenna WF4 (FCC)**

**Antenna Gain and Limit**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5755	41.00	3.10	30.00	30.00
High	5795	40.90	3.10	30.00	30.00
142	5710	40.90	3.10	30.00	30.00

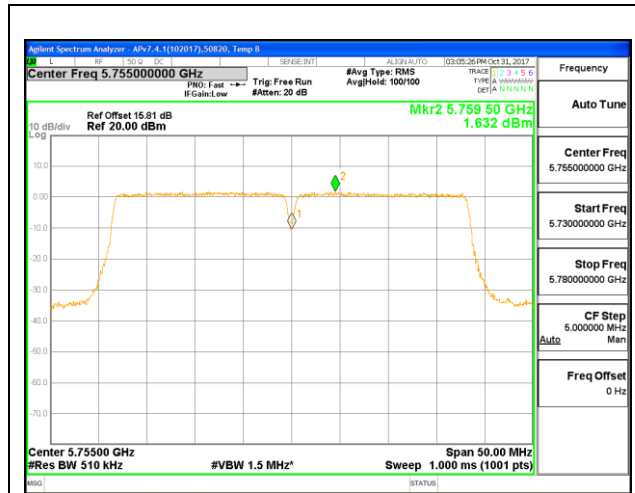
<b>Duty Cycle CF (dB)</b>	0.09	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
---------------------------	------	---

**Output Power Results**

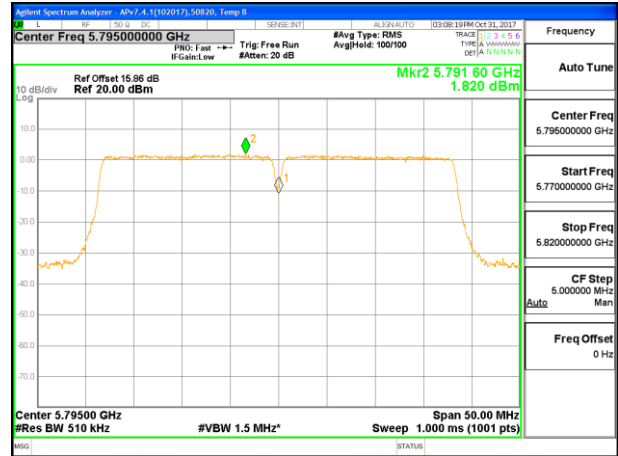
Channel	Frequency (MHz)	WF4 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	18.82	18.82	30.00	-11.18
High	5795	18.75	18.75	30.00	-11.25
142	5710	11.32	11.41	30.00	-18.59

**PSD Results**

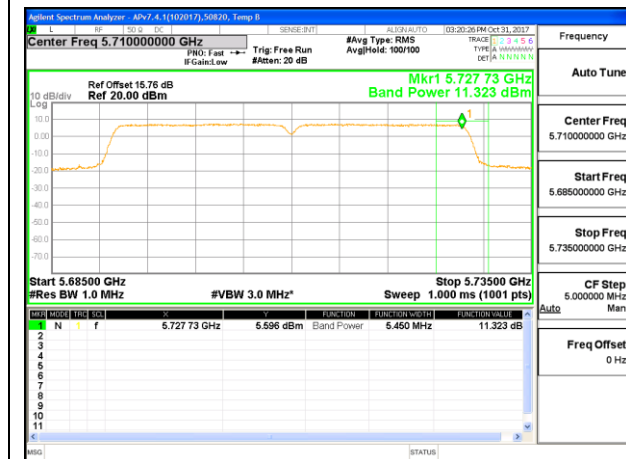
Channel	Frequency (MHz)	WF4 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5755	1.632	1.722	30.00	-28.28
High	5795	1.820	1.910	30.00	-28.09
142	5710	4.035	4.125	30.00	-25.88



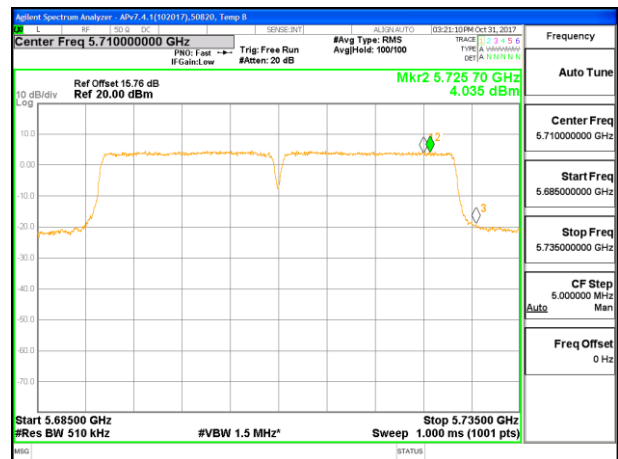
LOW CHANNEL



HIGH CHANNEL



CHANNEL 142 OUTPUT POWER



CHANNEL 142 PSD

**4.5.12. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND**

**1TX Antenna WF4 (FCC)**

**Antenna Gain and Limit**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Mid	5775	83.40	3.10	30.00	30.00
138	5690	83.40	3.10	30.00	30.00

<b>Duty Cycle CF (dB)</b>	0.20	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
---------------------------	------	---

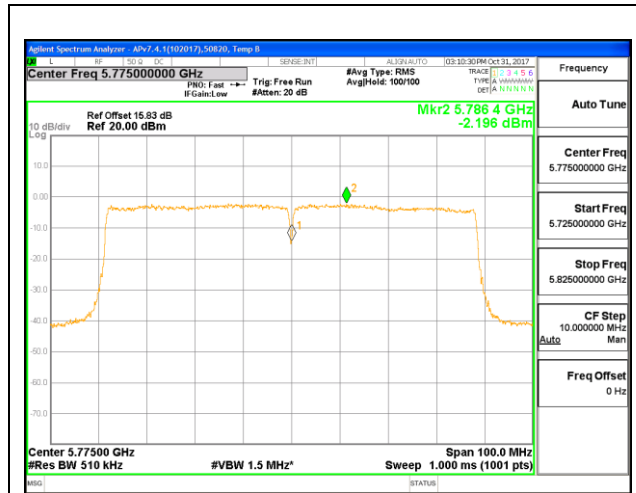
**Output Power Results**

Channel	Frequency (MHz)	WF4 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	17.90	17.90	30.00	-12.10
138	5690	6.93	7.13	30.00	-22.87

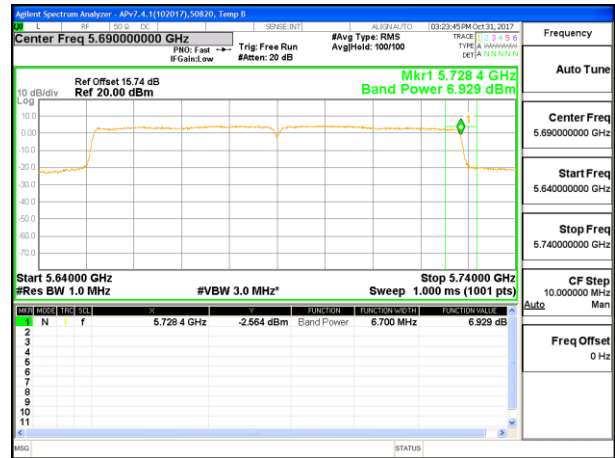
**PSD Results**

Channel	Frequency (MHz)	WF4 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Mid	5775	-2.196	-1.996	30.00	-32.00
138	5690	-0.169	0.031	30.00	-29.97

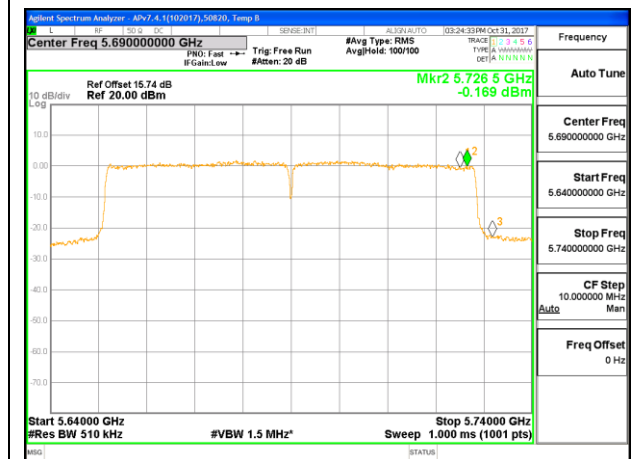




MID CHANNEL



CHANNEL 138 OUTPUT POWER



CHANNEL 138 PSD

## 5. RADIATED TEST RESULTS

### LIMITS

FCC §15.205 and §15.209

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

### TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 150cm for above 1GHz. 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.

Reference to KDB 789033 UNII part G) 6) d) Method AD:

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor to the reading offset for average measurements.

The spectrum from 1GHz 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.

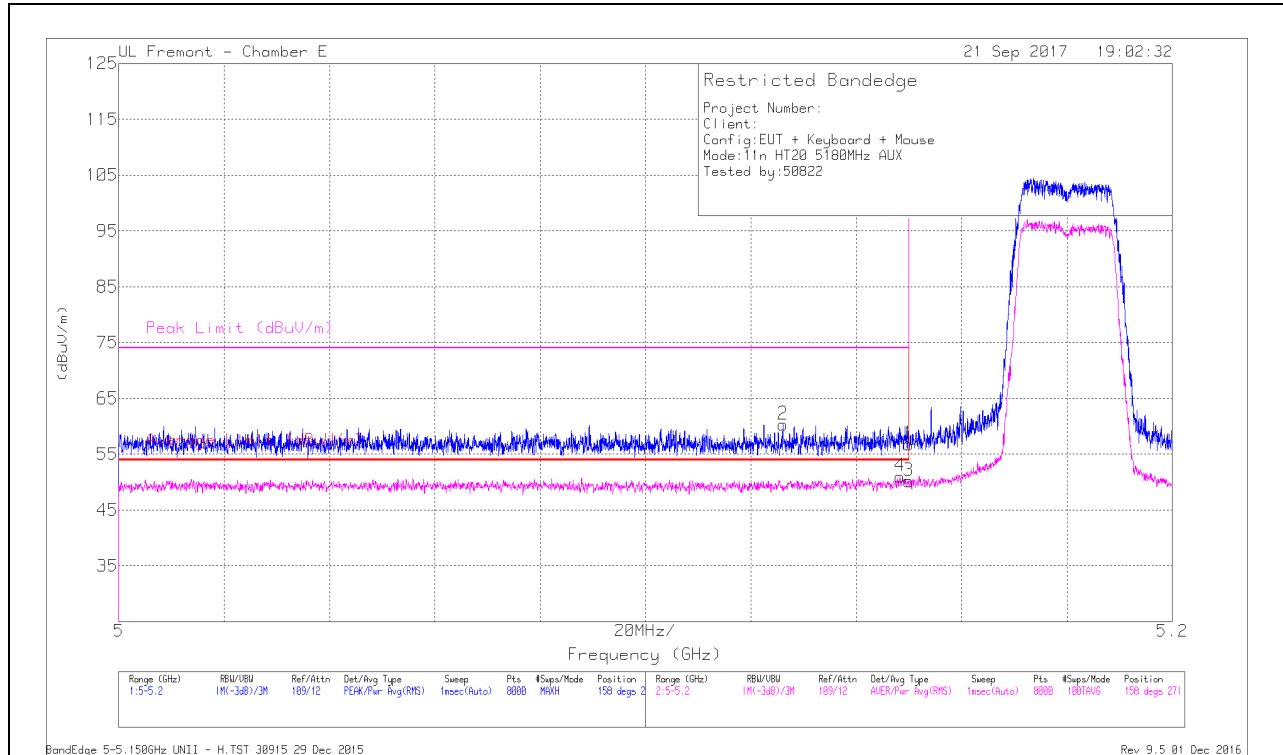
### 5.1. TRANSMITTER ABOVE 1 GHz

#### 5.1.1. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND

1TX Antenna WF4

BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



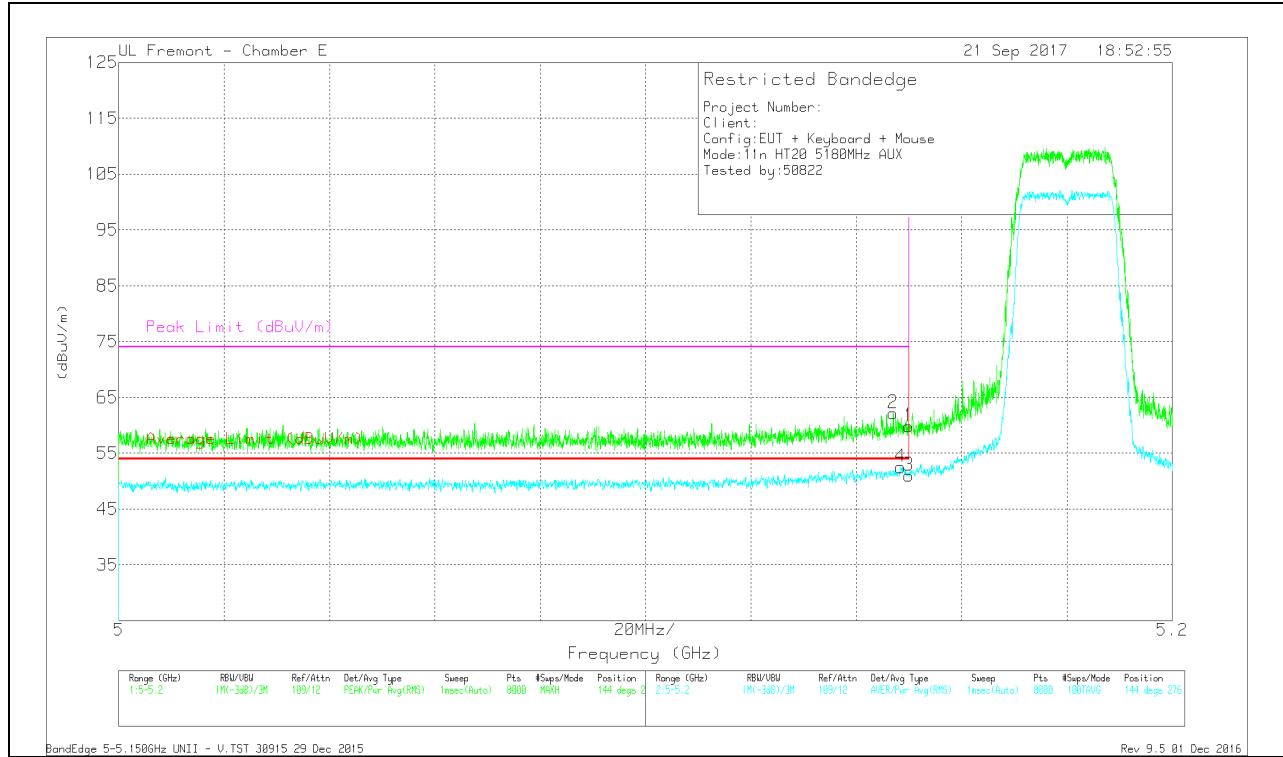
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	40.3	Pk	34.8	-18.3	0	56.8	-	-	74	-17.2	158	271	H
2	* 5.126	43.94	Pk	34.7	-18.3	0	60.34	-	-	74	-13.66	158	271	H
3	* 5.15	33.48	RMS	34.8	-18.3	.23	50.21	54	-3.79	-	-	158	271	H
4	* 5.148	34.32	RMS	34.8	-18.3	.23	51.05	54	-2.95	-	-	158	271	H

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

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT

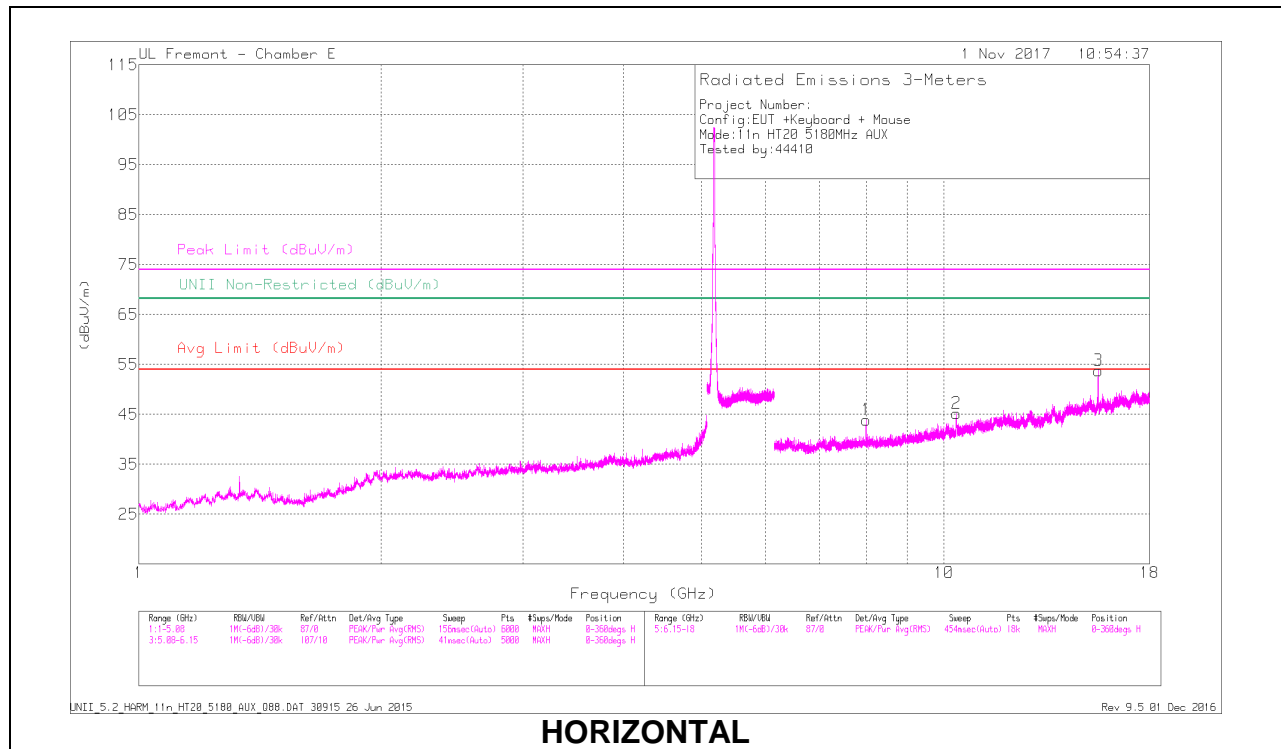


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	43.35	Pk	34.8	-18.3	0	59.85	-	-	74	-14.15	144	276	V
2	* 5.147	45.78	Pk	34.7	-18.3	0	62.18	-	-	74	-11.82	144	276	V
3	* 5.15	34.29	RMS	34.8	-18.3	.23	51.02	54	-2.98	-	-	144	276	V
4	* 5.148	35.81	RMS	34.8	-18.3	.23	52.54	54	-1.46	-	-	144	276	V

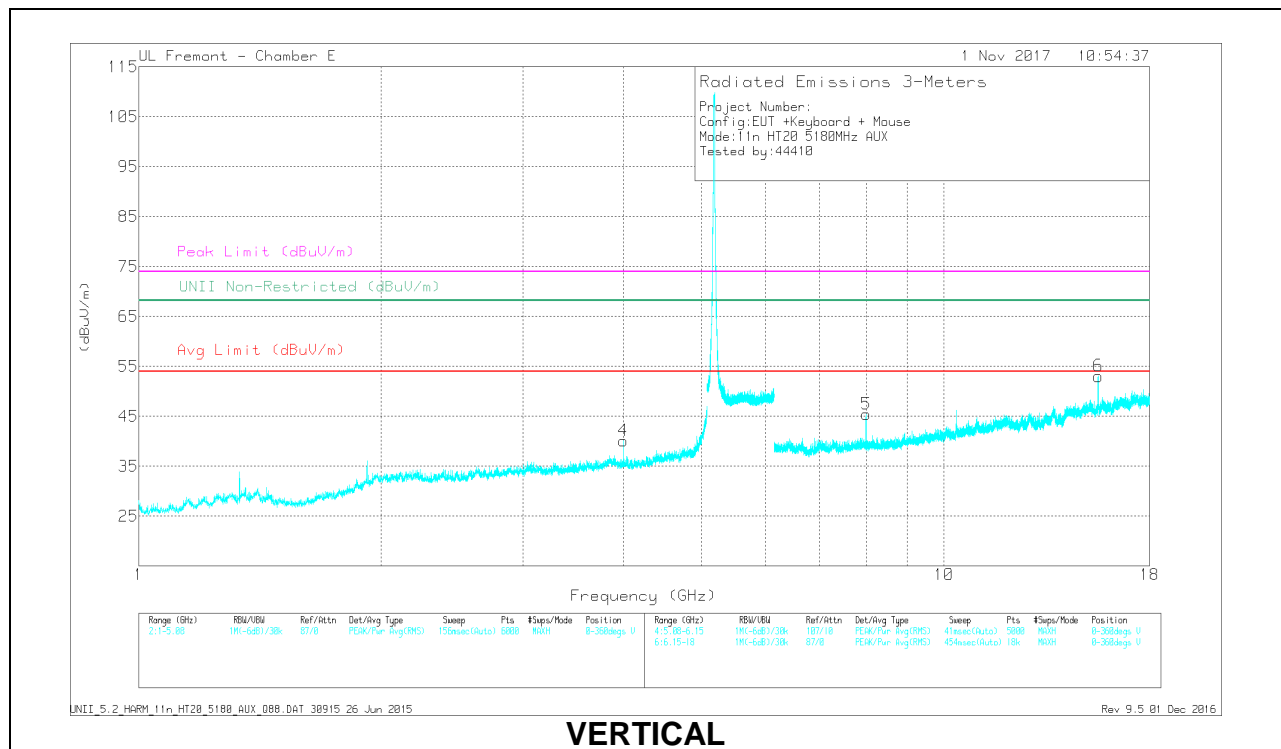
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

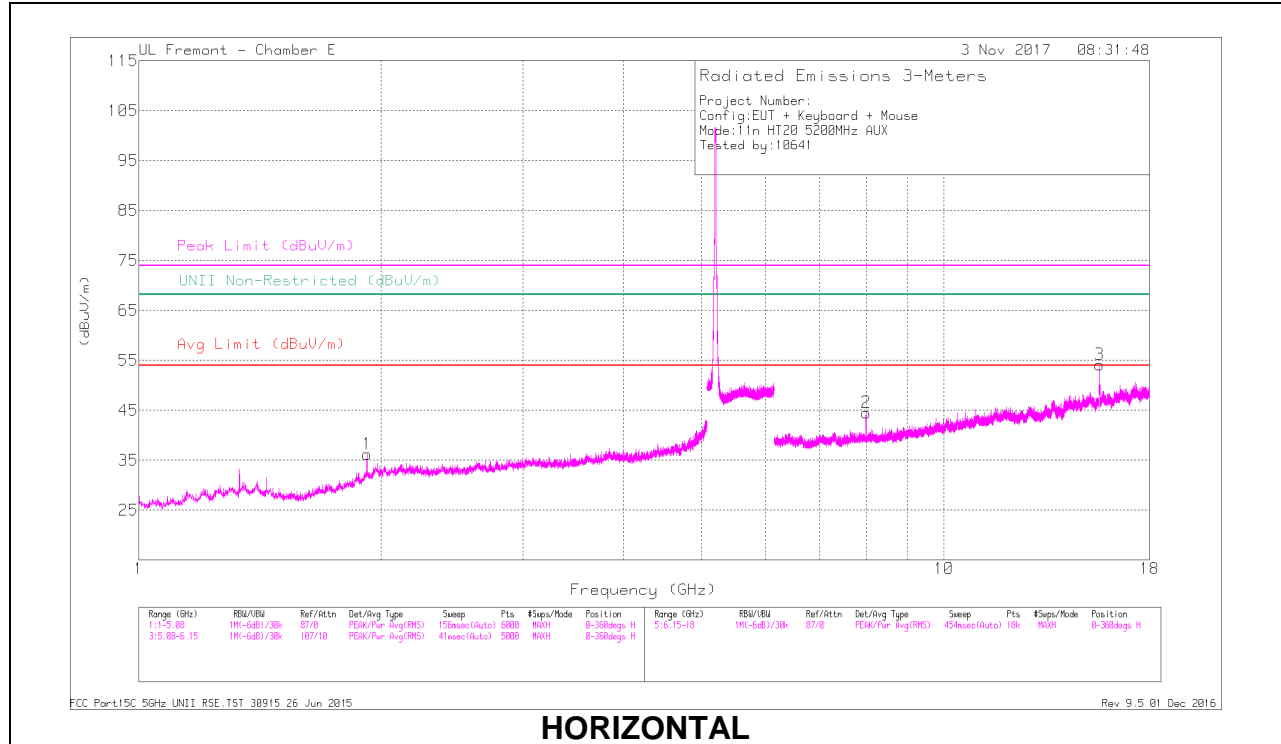
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4	42.89	PK-U	33.7	-29.5	0	47.09	-	-	74	-26.91	-	-	351	247	V
* 4	34.23	ADR	33.7	-29.5	.23	38.66	54	-15.34	-	-	-	-	351	247	V
* 15.547	42.44	PK-U	40.9	-22.2	0	61.14	-	-	74	-12.86	-	-	148	102	H
* 15.544	30.1	ADR	40.9	-22.3	.23	48.93	54	-5.07	-	-	-	-	148	102	H
* 15.546	43.62	PK-U	40.9	-22.3	0	62.22	-	-	74	-11.78	-	-	185	107	V
* 15.544	30.8	ADR	40.9	-22.3	.23	49.63	54	-4.37	-	-	-	-	185	107	V
8	39.91	PK-U	36.5	-26.4	0	50.01	-	-	-	-	68.2	-18.19	240	193	H
8	42.54	PK-U	36.5	-26.4	0	52.64	-	-	-	-	68.2	-15.56	113	222	V
10.362	39.55	PK-U	37.7	-23.5	0	53.75	-	-	-	-	68.2	-14.45	146	259	H

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

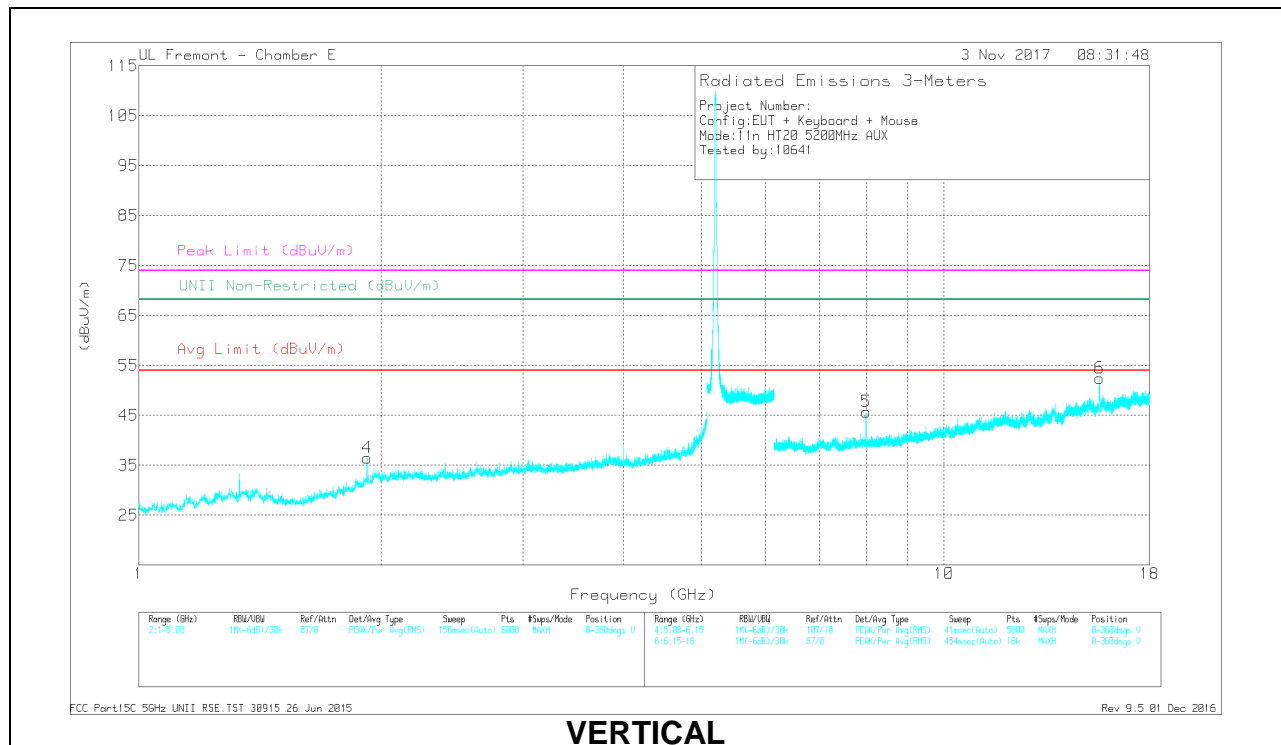
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### MID CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

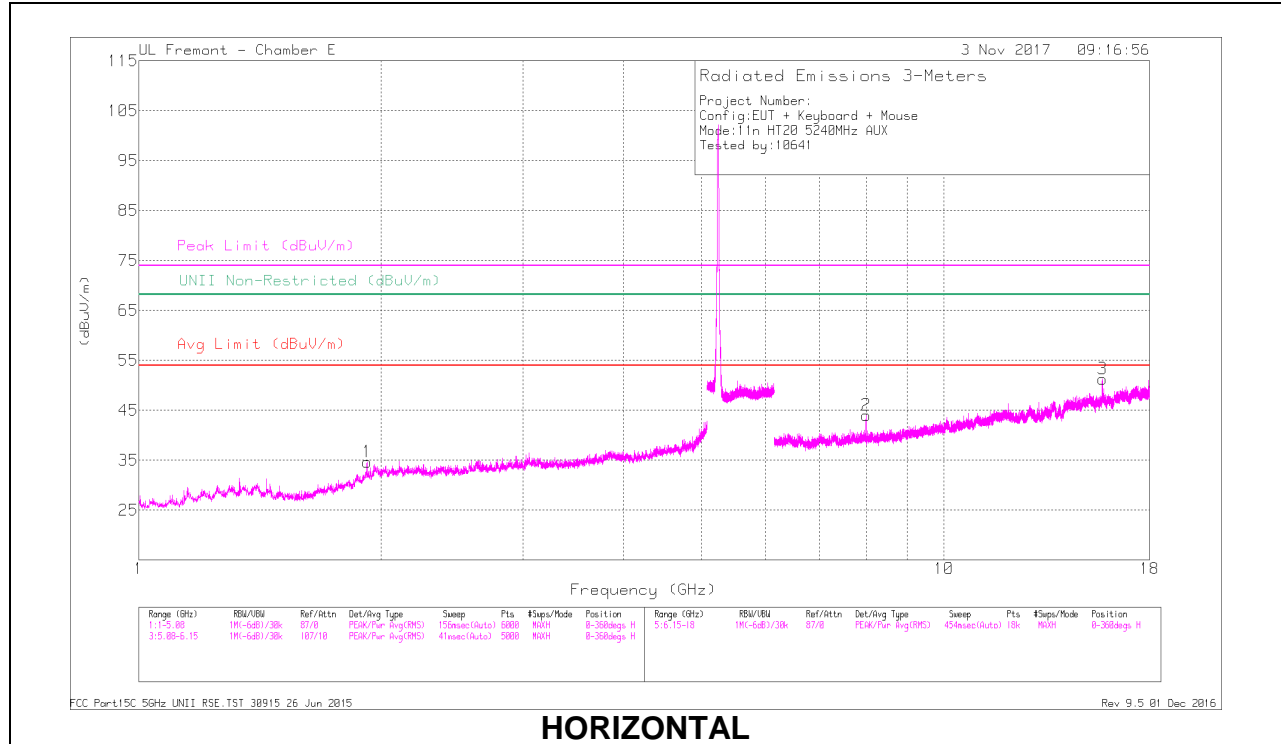
**RADIATED EMISSIONS**

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 15.602	41.99	PK-U	40.7	-21.9	0	60.79	-	-	74	-13.21	-	-	151	102	H
* 15.603	29.86	ADR	40.7	-21.9	.23	48.89	54	-5.11	-	-	-	-	151	102	H
* 15.591	43.11	PK-U	40.7	-22.1	0	61.71	-	-	74	-12.29	-	-	176	135	V
* 15.592	29.16	ADR	40.7	-22.1	.23	47.99	54	-6.01	-	-	-	-	176	135	V
1.92	43.96	PK-U	31.1	-32.8	0	42.26	-	-	-	-	68.2	-25.94	94	130	H
1.92	43.01	PK-U	31.1	-32.8	0	41.31	-	-	-	-	68.2	-26.89	7	134	V
8	40.06	PK-U	36.5	-26.4	0	50.16	-	-	-	-	68.2	-18.04	240	138	H
8	40.41	PK-U	36.5	-26.4	0	50.51	-	-	-	-	68.2	-17.69	340	195	V

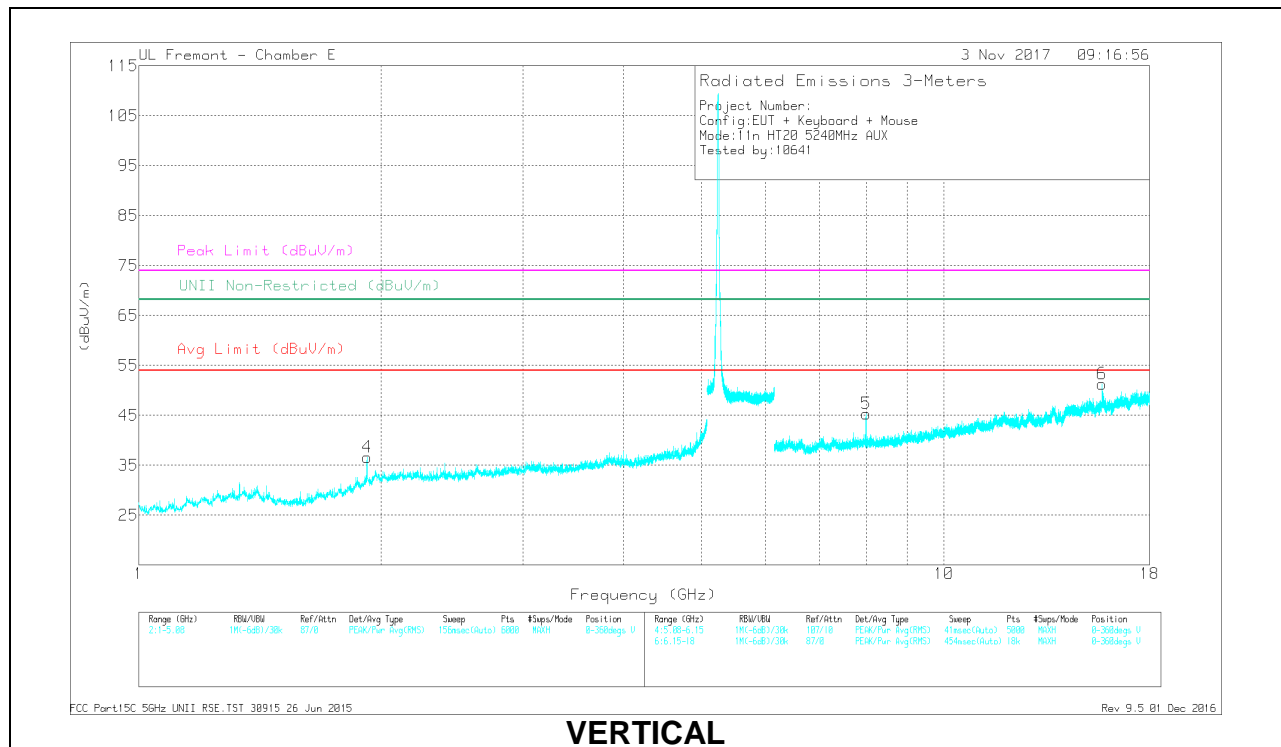
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak  
 ADR - U-NII AD primary method, RMS average



### HIGH CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

**RADIATED EMISSIONS**

Marker	Frequen cy (GHz)	Mete r Readi ng (dBu V)	Det	AF T346 (dB/m)	Amp/C bl/Fitr /Pad (dB)	DC Corr (dB)	Correc ted Readin g (dBuV/ m)	Avg Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	UNII Non- Restric ted (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarit y
3	* 15.731	39.82	PK-U	41.7	-22.1	0	59.42	-	-	74	-14.58	-	-	103	305	H
	* 15.727	26.99	ADR	41.7	-22	.23	46.92	54	-7.08	-	-	-	-	103	305	H
6	* 15.719	40.2	PK-U	41.7	-21.9	0	60	-	-	74	-14	-	-	199	138	V
	* 15.719	27.49	ADR	41.7	-21.9	.23	47.52	54	-6.48	-	-	-	-	199	138	V
1	1.92	43.5	PK-U	31.1	-32.8	0	41.8	-	-	-	-	68.2	-26.4	101	110	H
4	1.92	43.89	PK-U	31.1	-32.8	0	42.19	-	-	-	-	68.2	-26.01	5	124	V
2	8	40.05	PK-U	36.5	-26.4	0	50.15	-	-	-	-	68.2	-18.05	237	197	H
5	8	41.41	PK-U	36.5	-26.4	0	51.51	-	-	-	-	68.2	-16.69	210	202	V

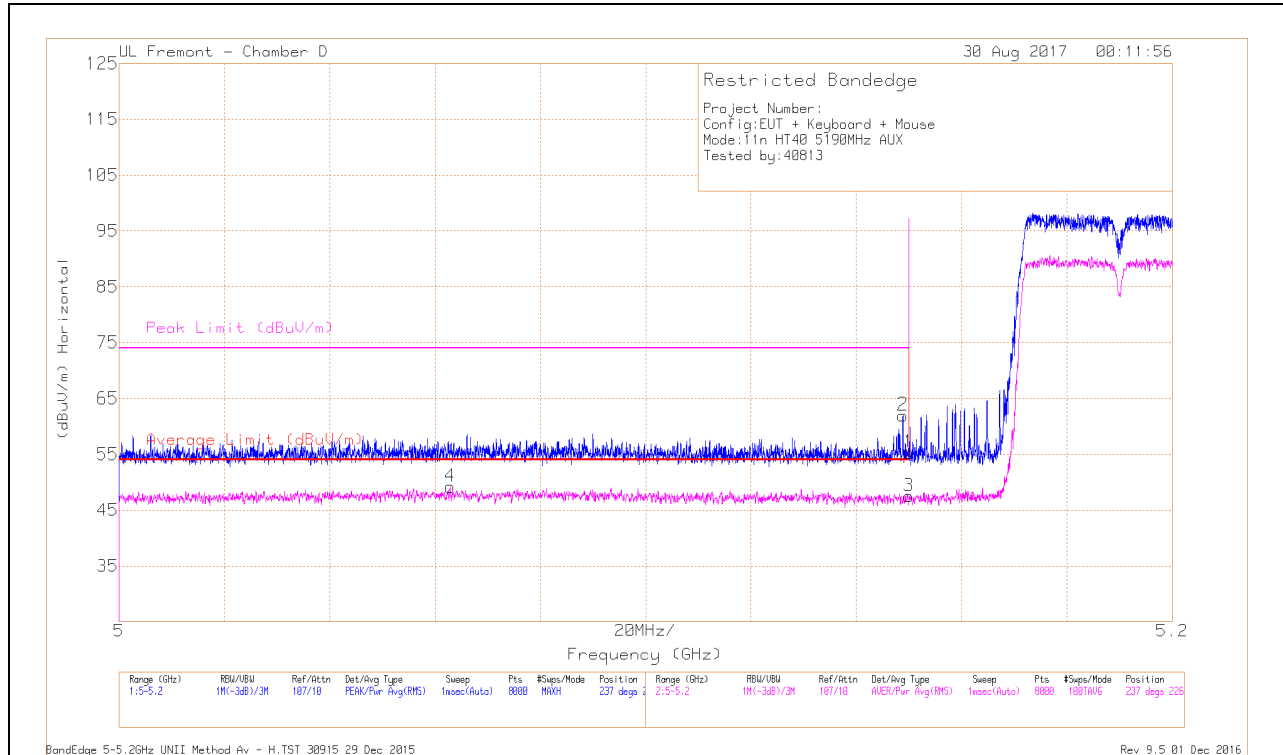
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak  
 ADR - U-NII AD primary method, RMS average

**5.1.2. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND**

**1TX Antenna WF4**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



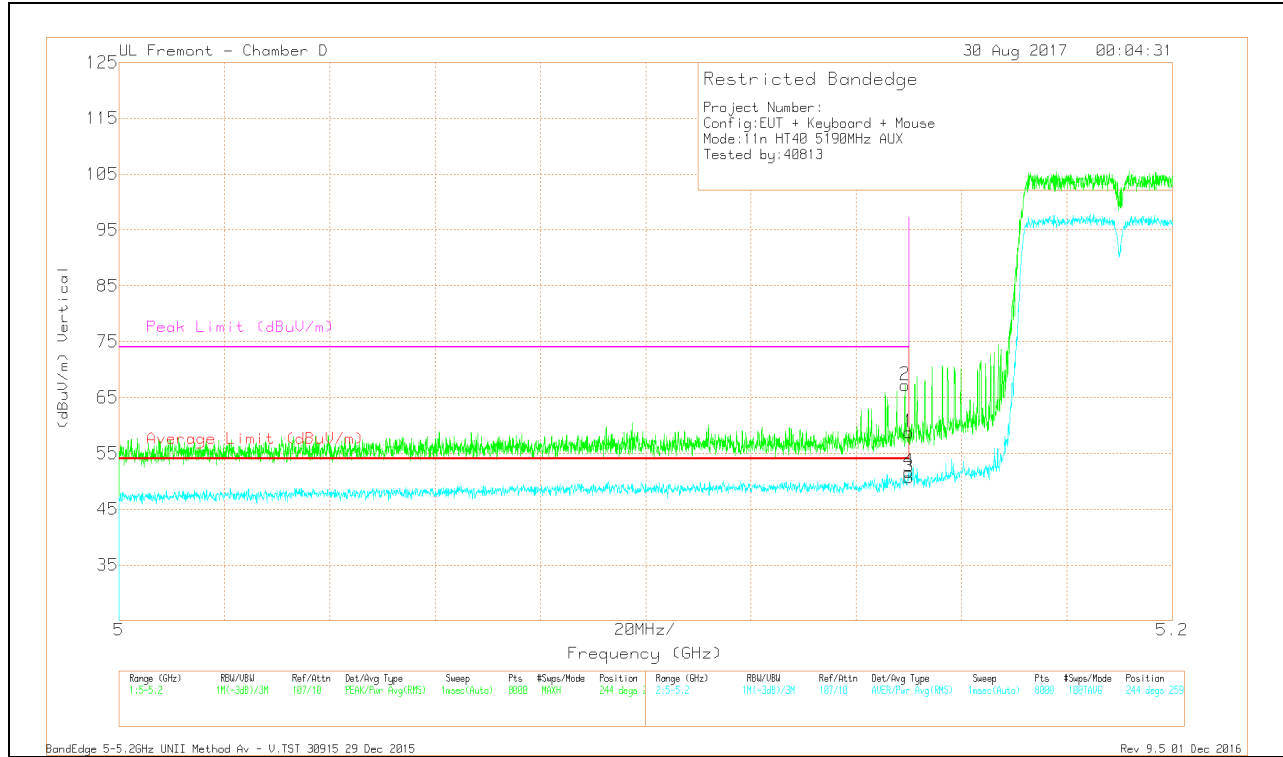
Marker	Frequen- cy (GHz)	Meter Readin g (dBuV)	Det	AF T711 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	DC Corr (dB)	Correct ed Readin g (dBuV/ m)	Averag e Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarity
1	* 5.15	39.6	Pk	34.1	-18.4	0	55.3	-	-	74	-18.7	237	226	H
2	* 5.149	46.27	Pk	34.1	-18.4	0	61.97	-	-	74	-12.03	237	226	H
3	* 5.15	31.7	RMS	34.1	-18.4	.09	47.49	54	-6.51	-	-	237	226	H
4	* 5.063	32.99	RMS	34.1	-18	.09	49.18	54	-4.82	-	-	237	226	H

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

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT

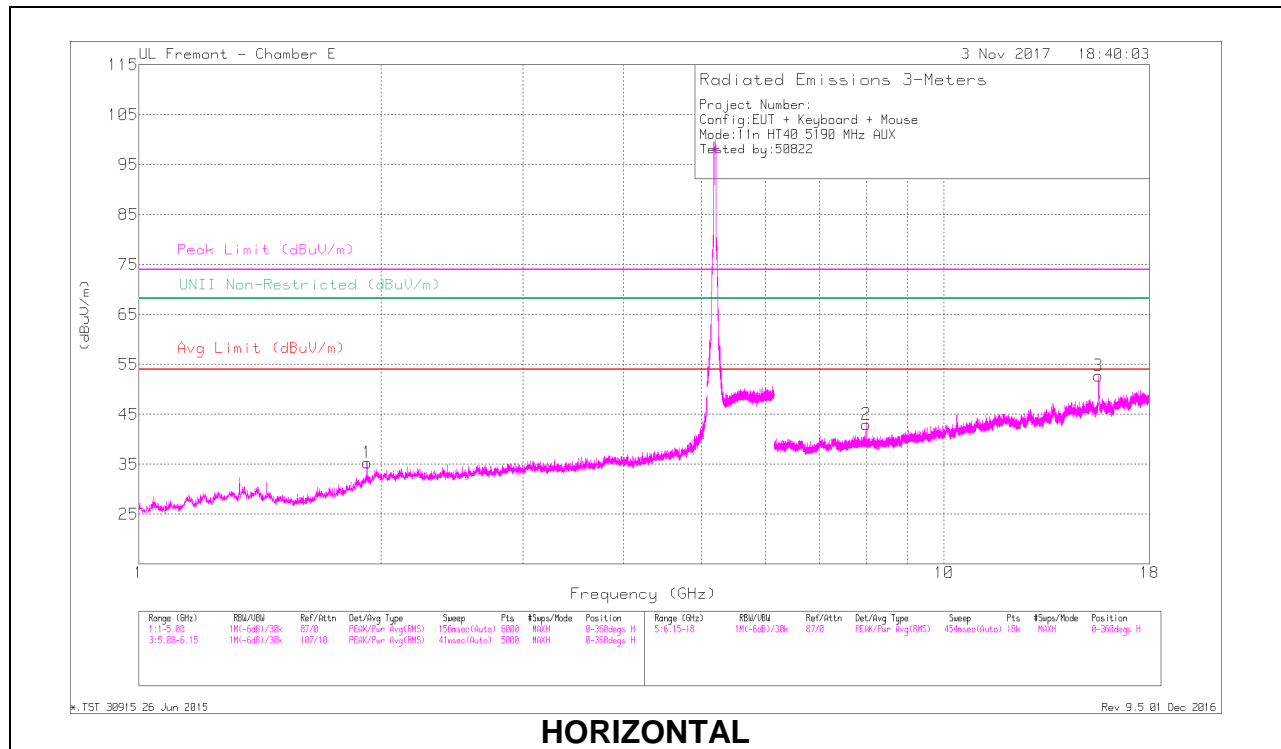


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	43.08	Pk	34.1	-18.4	0	58.78	-	-	74	-15.22	244	259	V
2	* 5.149	51.53	Pk	34.1	-18.4	0	67.23	-	-	74	-6.77	244	259	V
3	* 5.15	34.96	RMS	34.1	-18.4	.09	50.75	54	-3.25	-	-	244	259	V
4	* 5.15	35.92	RMS	34.1	-18.4	.09	51.71	54	-2.29	-	-	244	259	V

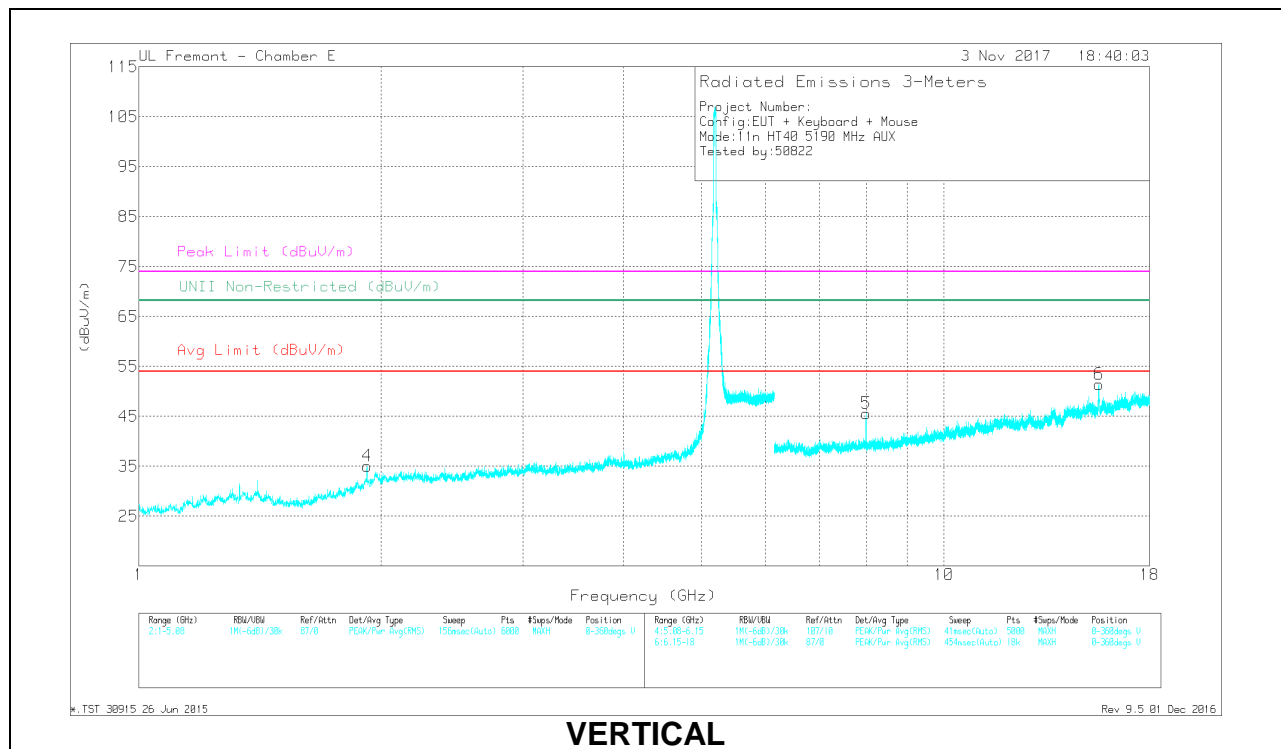
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**HORIZONTAL**



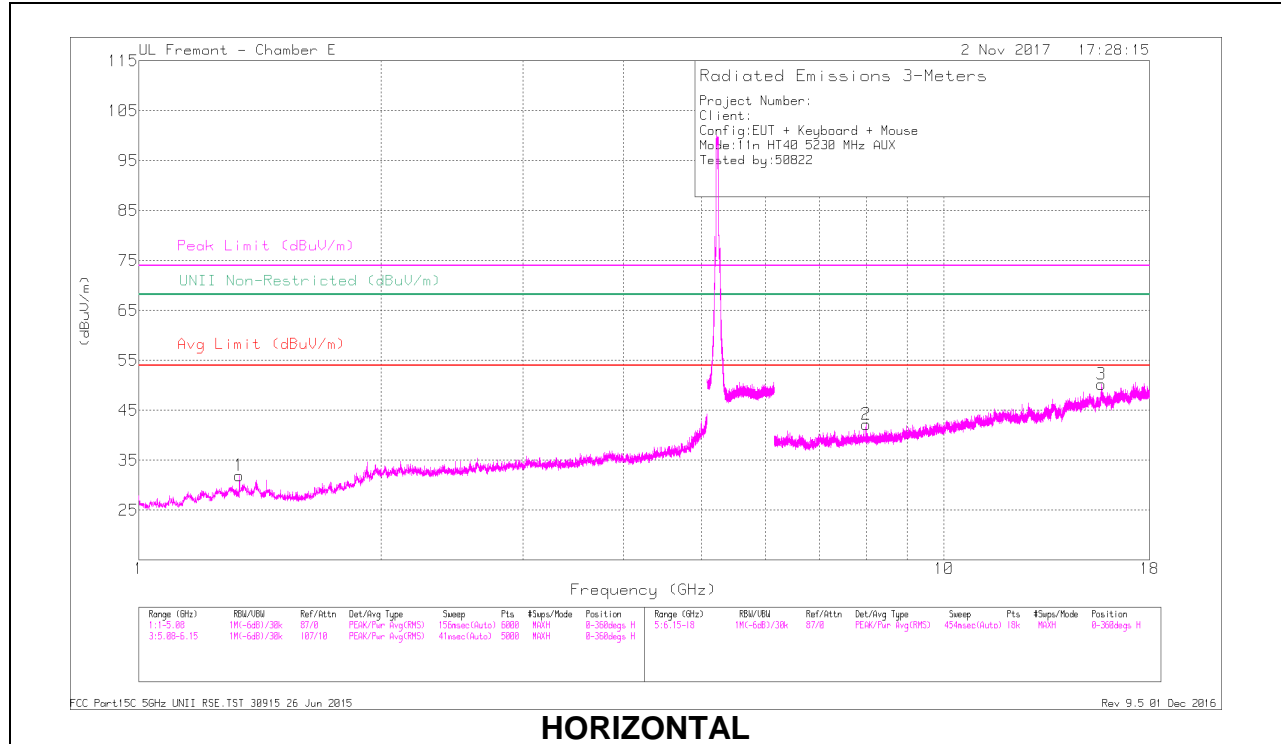
**VERTICAL**

**RADIATED EMISSIONS**

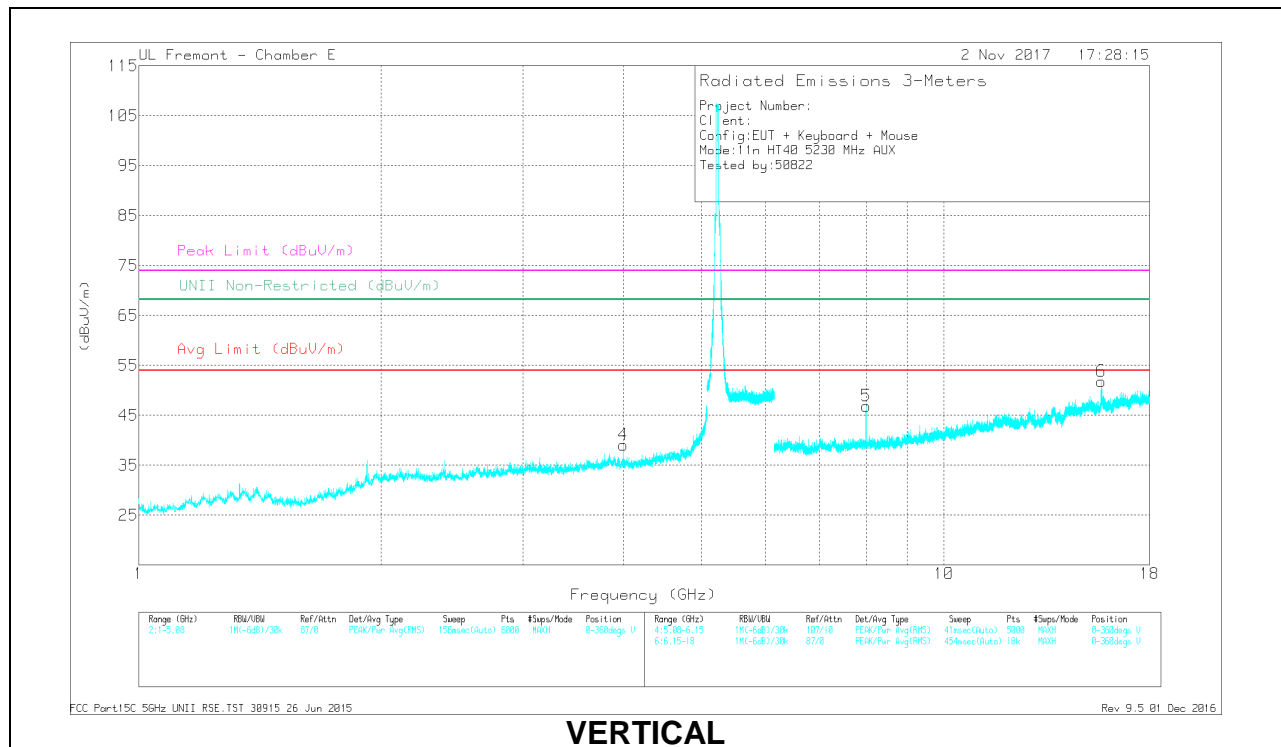
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 15.559	39.89	PK-U	40.9	-21.9	0	58.89	-	-	74	-15.11	-	-	146	102	H
	* 15.56	28.21	ADR	40.9	-22	.09	47.42	54	-6.58	-	-	-	-	146	102	H
6	* 15.58	37.84	PK-U	40.8	-22.2	0	56.44	-	-	74	-17.56	-	-	170	100	V
	* 15.578	26.26	ADR	40.8	-22.3	.09	45.07	54	-8.93	-	-	-	-	170	100	V
1	1.92	44.24	PK-U	31.1	-32.8	0	42.54	-	-	-	-	68.2	-25.66	90	101	H
4	1.92	44.15	PK-U	31.1	-32.8	0	42.45	-	-	-	-	68.2	-25.75	353	101	V
2	8	40.17	PK-U	36.5	-26.4	0	50.27	-	-	-	-	68.2	-17.93	236	202	H
5	8	41.24	PK-U	36.5	-26.4	0	51.34	-	-	-	-	68.2	-16.86	211	177	V

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

### HIGH CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.333	44.62	PK-U	28.9	-35	0	38.52	-	-	74	-35.48	-	-	204	101	H
	* 1.333	32.18	ADR	28.9	-35	.09	26.17	54	-27.83	-	-	-	-	204	101	H
4	* 4	40.85	PK-U	33.7	-29.5	0	45.05	-	-	74	-28.95	-	-	0	369	V
	* 4	29.89	ADR	33.7	-29.5	.09	34.18	54	-19.82	-	-	-	-	0	369	V
3	* 15.687	38.06	PK-U	41.6	-22.5	0	57.16	-	-	74	-16.84	-	-	152	101	H
	* 15.689	26.51	ADR	41.6	-22.5	.09	45.7	54	-8.3	-	-	-	-	152	101	H
6	* 15.678	37.45	PK-U	41.5	-22.2	0	56.75	-	-	74	-17.25	-	-	163	100	V
	* 15.68	25.98	ADR	41.5	-22.3	.09	45.27	54	-8.73	-	-	-	-	163	100	V
2	8	39.12	PK-U	36.5	-26.4	0	49.22	-	-	-	-	68.2	-18.98	149	101	H
	8	31.94	ADR	36.5	-26.4	.09	42.13	-	-	-	-	-	-	149	101	H
5	8	41.75	PK-U	36.5	-26.4	0	51.85	-	-	-	-	68.2	-16.35	106	209	V
	8	36.81	ADR	36.5	-26.4	.09	47	-	-	-	-	-	-	106	209	V

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

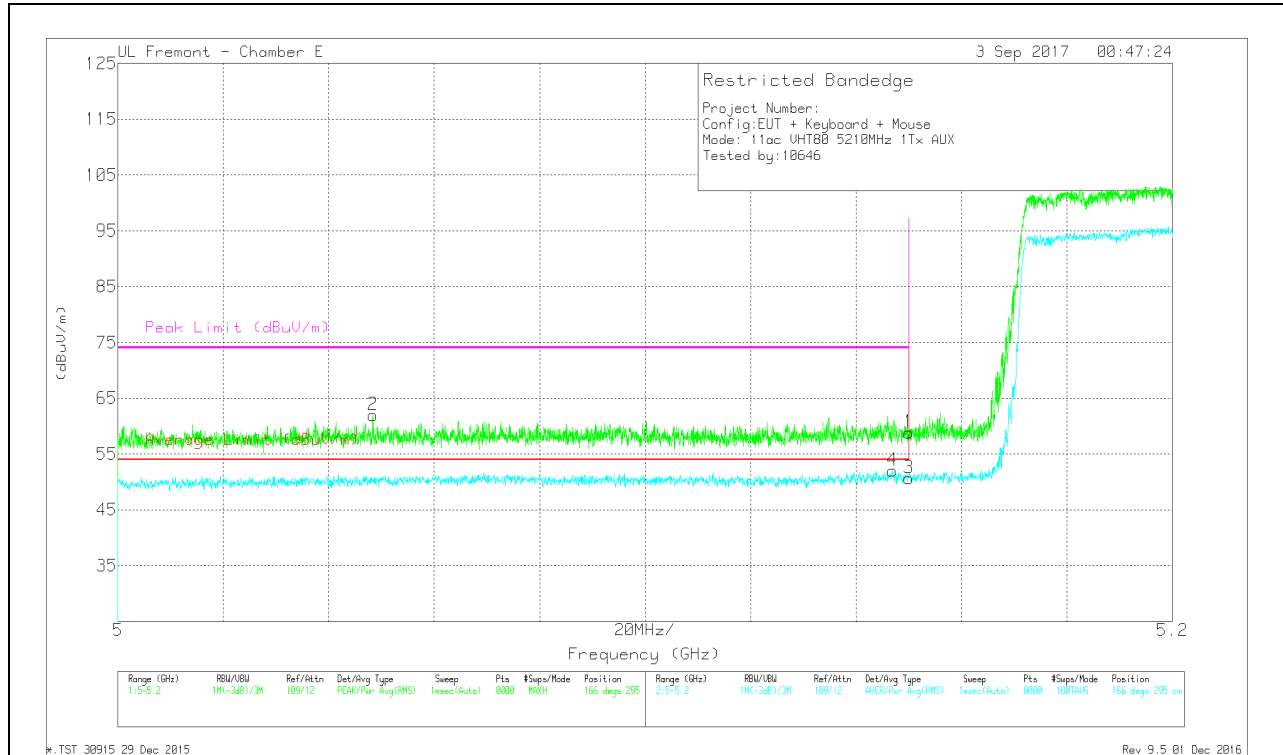


**5.1.3. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.2 GHz BAND**

**1TX Antenna WF4**

**BANDEDGE (MID CHANNEL)**

**HORIZONTAL RESULT**



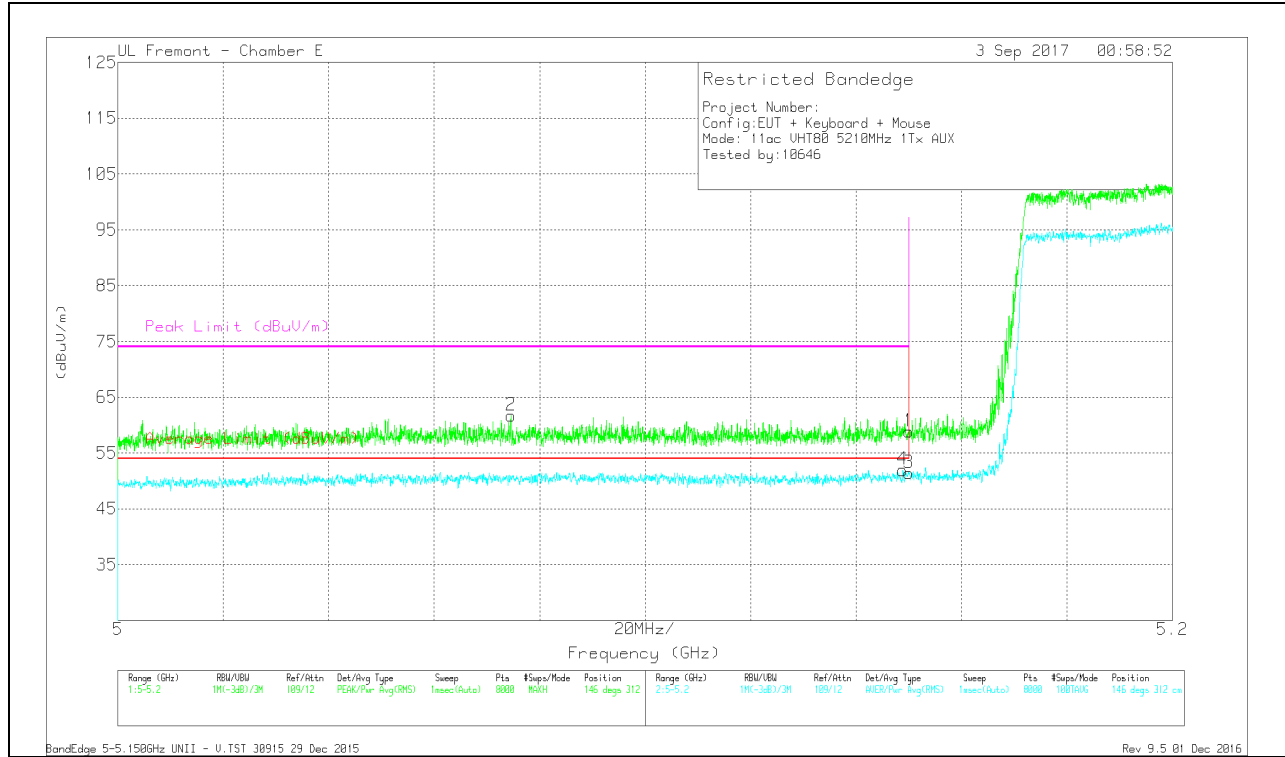
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	42.33	Pk	34.8	-18.3	0	58.83	-	-	74	-15.17	166	295	V
2	* 5.048	45.34	Pk	34.6	-18	0	61.94	-	-	74	-12.06	166	295	V
3	* 5.15	33.94	RMS	34.8	-18.3	.2	50.64	54	-3.36	-	-	166	295	V
4	* 5.147	35.45	RMS	34.7	-18.3	.2	52.05	54	-1.95	-	-	166	295	V

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

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	42.31	Pk	34.8	-18.3	0	58.81	-	-	74	-15.19	146	312	V
2	* 5.075	45.25	Pk	34.6	-18.1	0	61.75	-	-	74	-12.25	146	312	V
3	* 5.15	34.7	RMS	34.8	-18.3	.2	51.4	54	-2.6	-	-	146	312	V
4	* 5.149	35.27	RMS	34.8	-18.3	.2	51.97	54	-2.03	-	-	146	312	V

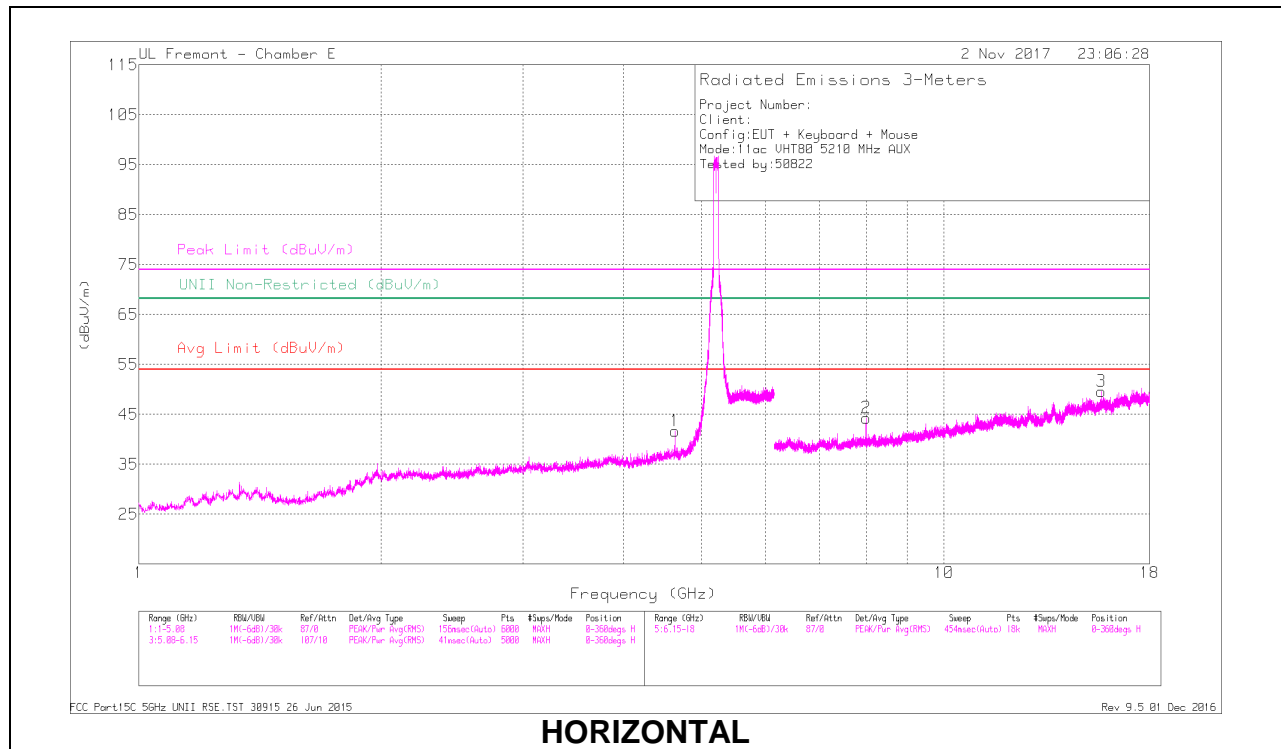
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

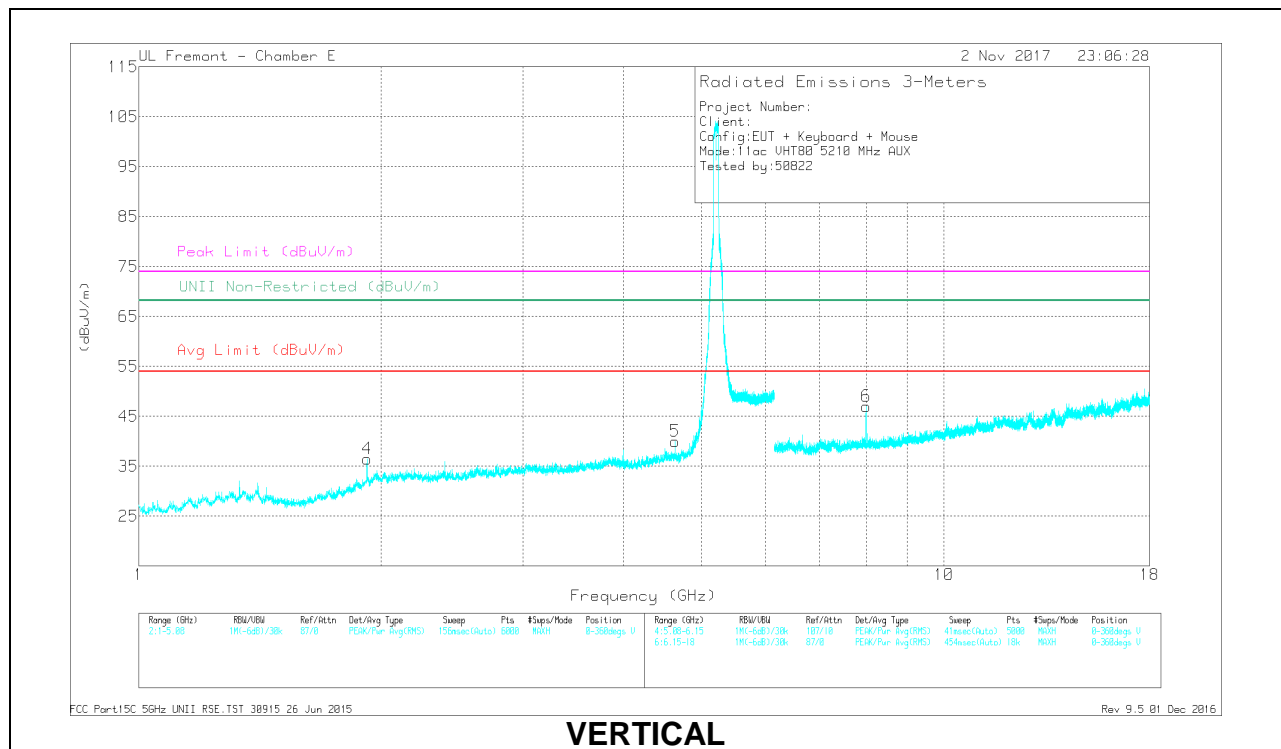
RMS - RMS detection

**HARMONICS AND SPURIOUS EMISSIONS**

**MID CHANNEL RESULTS**



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.631	42.08	PK-U	34.4	-29.3	0	47.18	-	-	74	-26.82	-	-	151	217	H
	* 4.631	33.8	ADR	34.4	-29.3	.2	39.1	54	-14.9	-	-	-	-	151	217	H
5	* 4.631	41.94	PK-U	34.4	-29.3	0	47.04	-	-	74	-26.96	-	-	193	193	V
	* 4.631	32.64	ADR	34.4	-29.3	.2	37.94	54	-16.06	-	-	-	-	193	193	V
3	* 15.676	36.21	PK-U	41.4	-22.2	0	55.41	-	-	74	-18.59	-	-	151	101	H
	* 15.676	23.54	ADR	41.4	-22.2	.2	42.94	54	-11.06	-	-	-	-	151	101	H
4	1.92	43.86	PK-U	31.1	-32.8	0	42.16	-	-	-	-	68.2	-26.04	360	101	V
	1.92	35.32	ADR	31.1	-32.8	.2	33.82	-	-	-	-	-	-	360	101	V
2	8	38.3	PK-U	36.5	-26.4	0	48.4	-	-	-	-	68.2	-19.8	260	101	H
	8	31.16	ADR	36.5	-26.4	.2	41.46	-	-	-	-	-	-	260	101	H
6	8	42.02	PK-U	36.5	-26.4	0	52.12	-	-	-	-	68.2	-16.08	105	216	V
	8	36.47	ADR	36.5	-26.4	.2	46.77	-	-	-	-	-	-	105	216	V

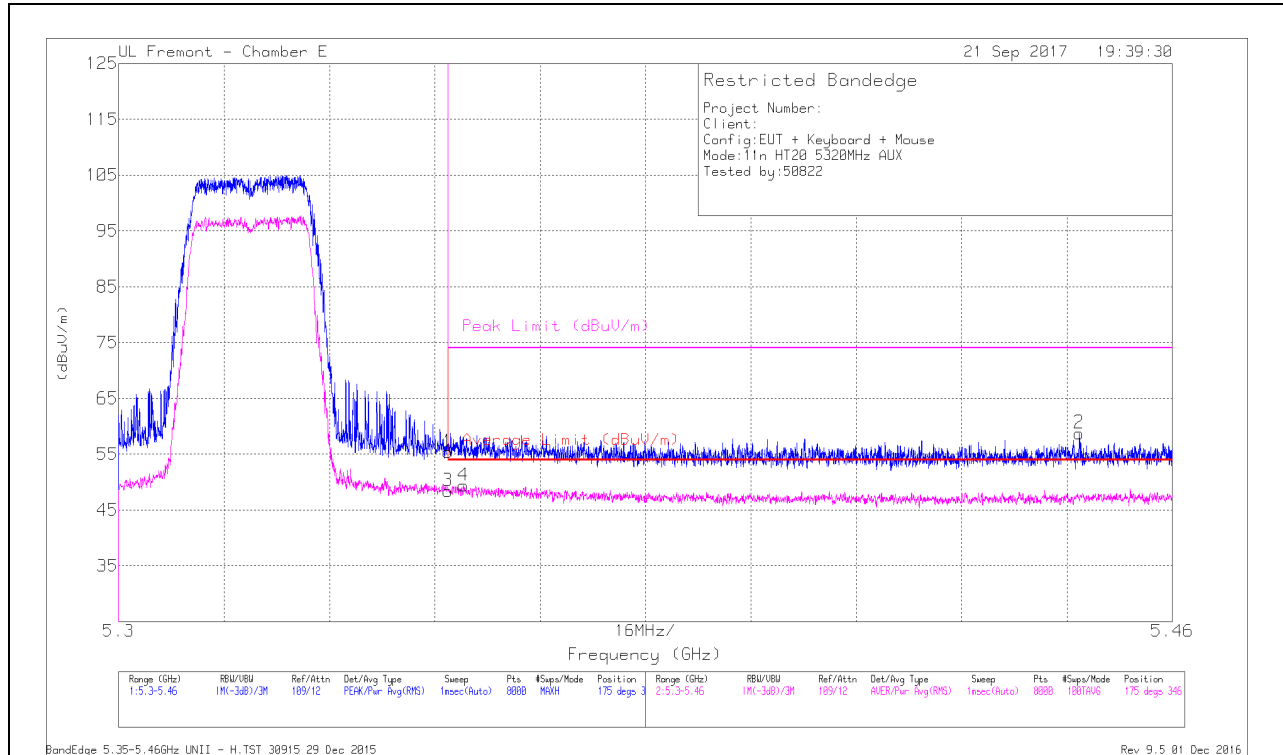
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak  
 ADR - U-NII AD primary method, RMS average

**5.1.4. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND**

**1TX Antenna WF4**

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**



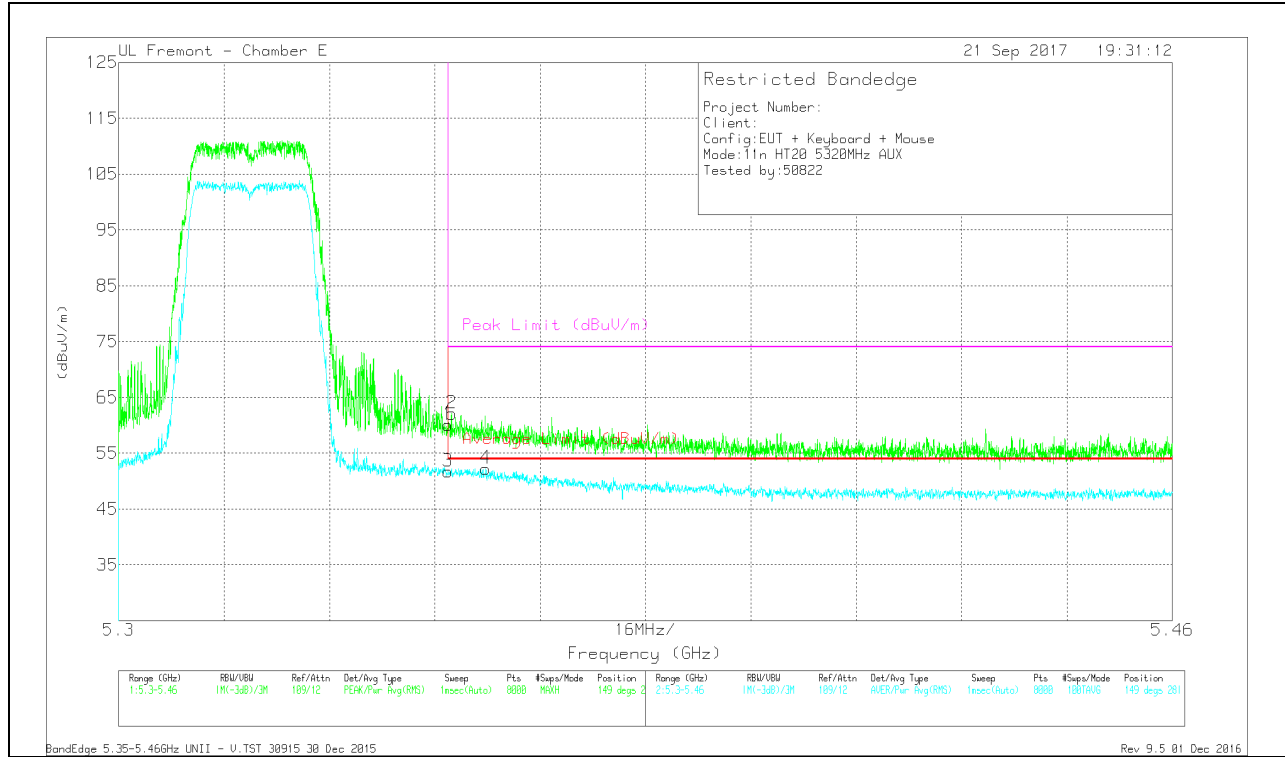
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	39.27	Pk	35	-18.9	0	55.37	-	-	74	-18.63	175	346	H
2	* 5.446	42.56	Pk	35.1	-18.9	0	58.76	-	-	74	-15.24	175	346	H
3	* 5.35	32.11	RMS	35	-18.9	.23	48.44	54	-5.56	-	-	175	346	H
4	* 5.352	33.05	RMS	35	-18.9	.23	49.38	54	-4.62	-	-	175	346	H

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

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT

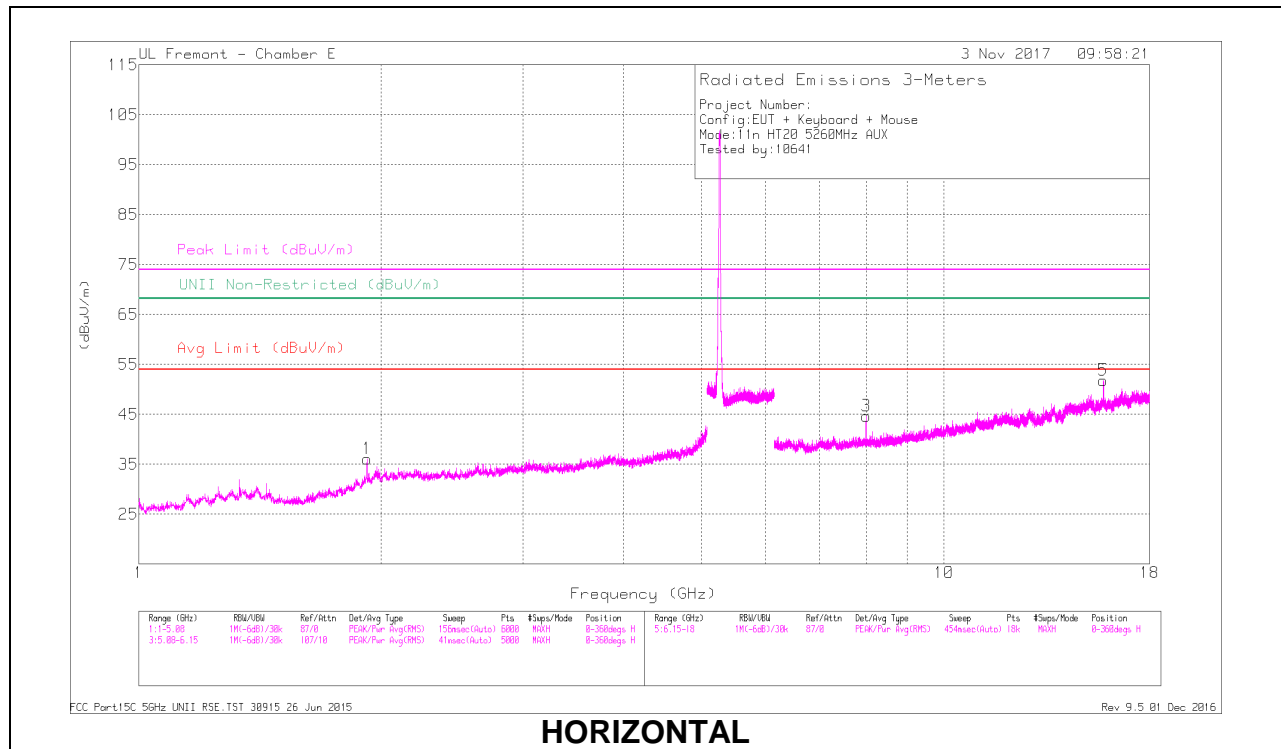


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	44.02	Pk	35	-18.9	0	60.12	-	-	74	-13.88	149	281	V
2	* 5.351	46.01	Pk	35	-18.9	0	62.11	-	-	74	-11.89	149	281	V
3	* 5.35	35.39	RMS	35	-18.9	.23	51.72	54	-2.28	-	-	149	281	V
4	* 5.356	35.92	RMS	35	-18.9	.23	52.25	54	-1.75	-	-	149	281	V

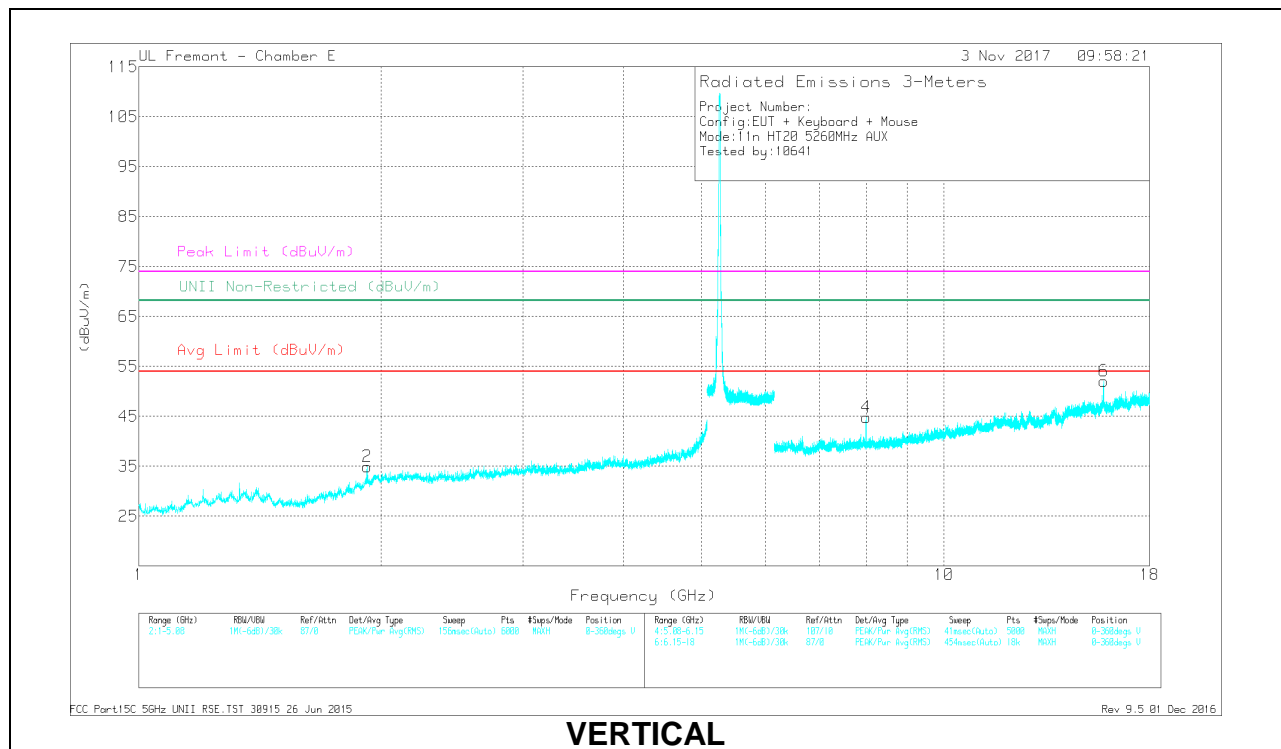
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**HORIZONTAL**



**VERTICAL**

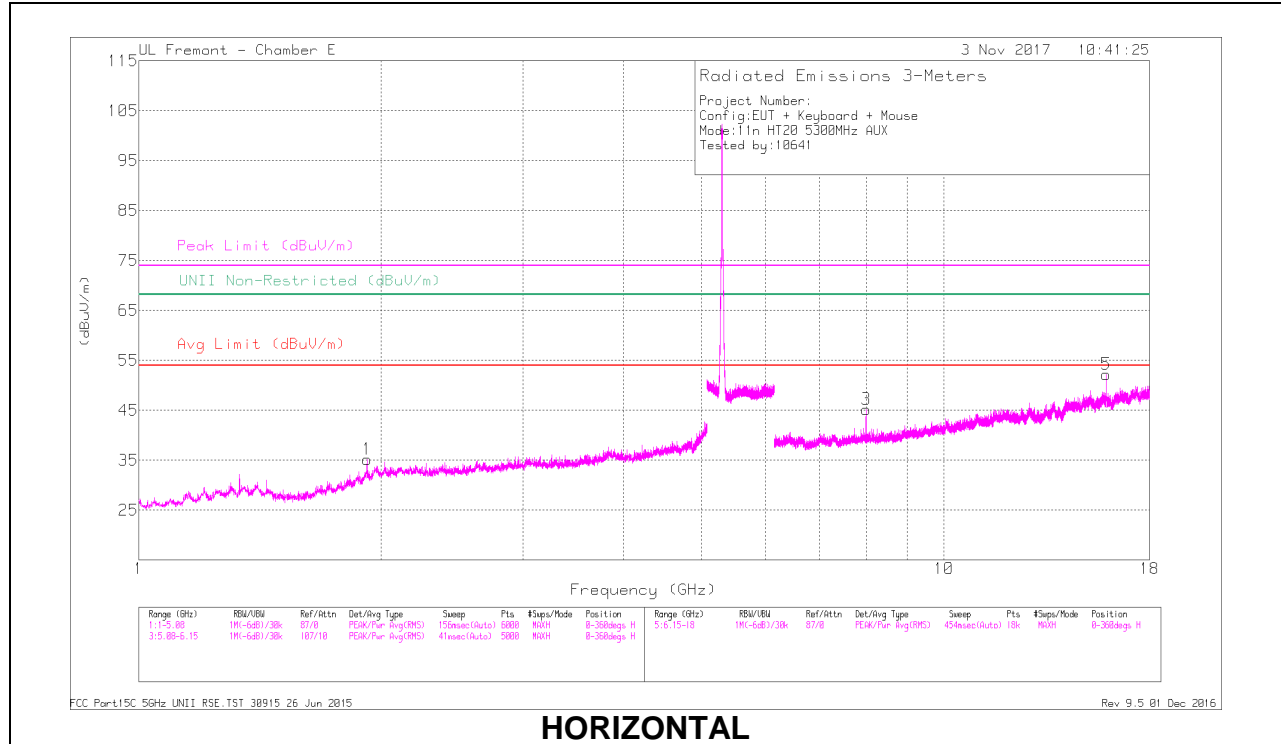
**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBUV/m)	Avg Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	UNII Non-Restricted (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 15.776	40.9	PK-U	41.7	-23	0	59.6	-	-	74	-14.4	-	-	149	119	H
	* 15.777	27.68	ADR	41.7	-22.9	.23	46.71	54	-7.29	-	-	-	-	149	119	H
6	* 15.783	42.46	PK-U	41.7	-22.8	0	61.36	-	-	74	-12.64	-	-	184	132	V
	* 15.783	29.39	ADR	41.7	-22.8	.23	48.52	54	-5.48	-	-	-	-	184	132	V
1	1.92	43.53	PK-U	31.1	-32.8	0	41.83	-	-	-	-	68.2	-26.37	91	153	H
2	1.92	43.43	PK-U	31.1	-32.8	0	41.73	-	-	-	-	68.2	-26.47	360	102	V
3	8	39.69	PK-U	36.5	-26.4	0	49.79	-	-	-	-	68.2	-18.41	232	316	H
4	8	41.04	PK-U	36.5	-26.4	0	51.14	-	-	-	-	68.2	-17.06	210	184	V

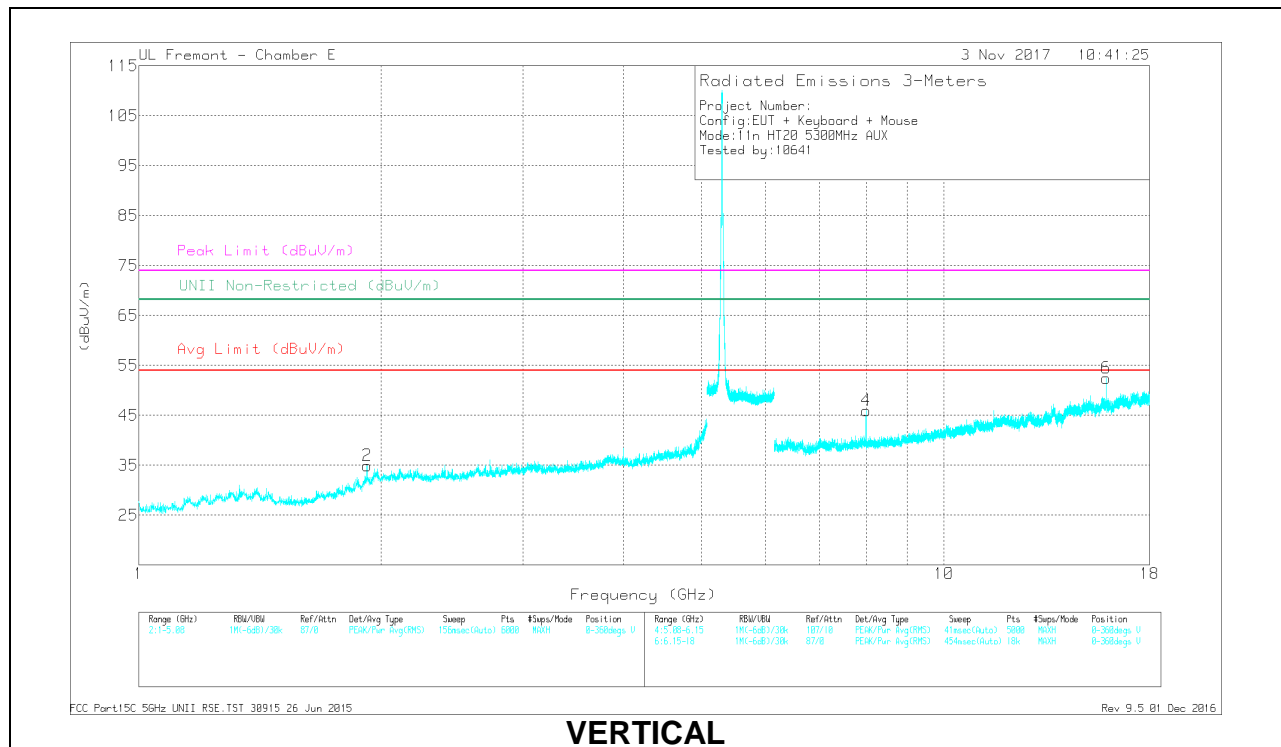
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak  
 ADR - U-NII AD primary method, RMS average



### MID CHANNEL RESULTS



### HORIZONTAL



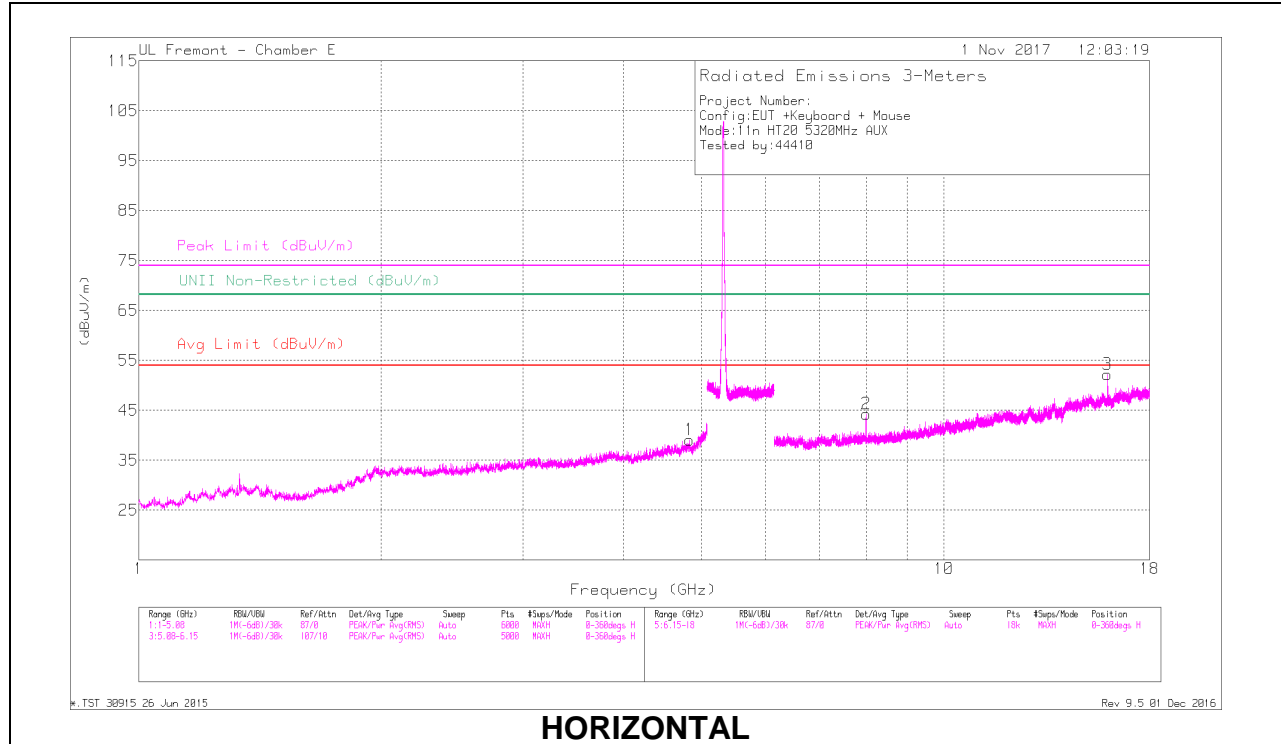
### VERTICAL

**RADIATED EMISSIONS**

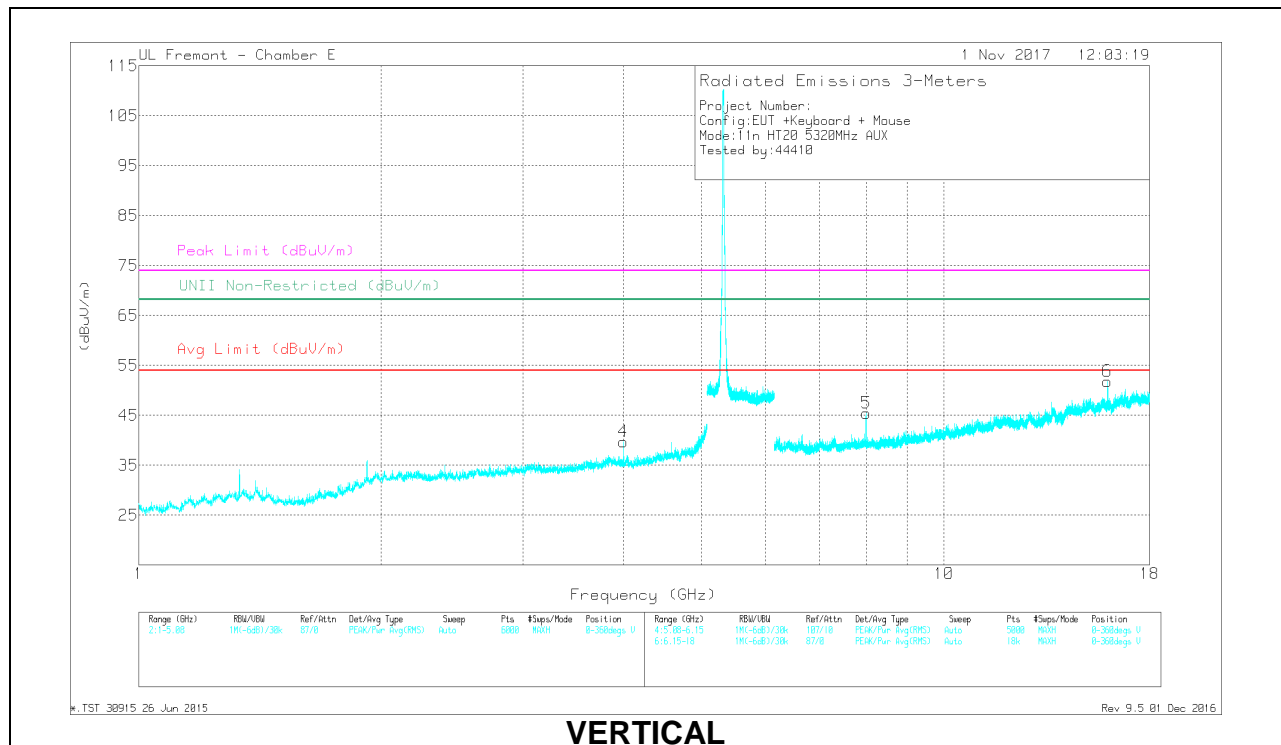
Marker	Frequen cy (GHz)	Mete r Readi ng (dBu V)	Det	AF T346 (dB/m)	Amp/C b/Filtr/ Pad (dB)	DC Corr (dB)	Correc ted Readin g (dBuV/ m)	Avg Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	UNII Non- Restric ted (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarit y
5	* 15.903	41.88	PK-U	41.4	-23.2	0	60.08	-	-	74	-13.92	-	-	155	126	H
	* 15.903	29.08	ADR	41.4	-23.2	.23	47.51	54	-6.49	-	-	-	-	155	126	H
6	* 15.894	42.41	PK-U	41.4	-23.1	0	60.71	-	-	74	-13.29	-	-	199	132	V
	* 15.895	29.63	ADR	41.4	-23.1	.23	48.16	54	-5.84	-	-	-	-	199	132	V
1	1.92	43.29	PK-U	31.1	-32.8	0	41.59	-	-	-	-	68.2	-26.61	89	131	H
2	1.92	43.4	PK-U	31.1	-32.8	0	41.7	-	-	-	-	68.2	-26.5	350	100	V
3	8	40.04	PK-U	36.5	-26.4	0	50.14	-	-	-	-	68.2	-18.06	232	298	H
4	8	40.48	PK-U	36.5	-26.4	0	50.58	-	-	-	-	68.2	-17.62	209	202	V

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

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.833	39.98	PK-U	34.4	-28.4	0	45.98	-	-	74	-28.02	-	-	189	343	H
	* 4.831	28.35	ADR	34.4	-28.4	.23	34.58	54	-19.42	-	-	-	-	189	343	H
4	* 4	41.24	PK-U	33.7	-29.5	0	45.44	-	-	74	-28.56	-	-	306	101	V
	* 4	31.62	ADR	33.7	-29.5	.23	36.05	54	-17.95	-	-	-	-	306	101	V
3	* 15.956	39.71	PK-U	41.6	-22.8	0	58.51	-	-	74	-15.49	-	-	149	113	H
	* 15.955	27.08	ADR	41.6	-22.8	.23	46.11	54	-7.89	-	-	-	-	149	113	H
6	* 15.961	42.41	PK-U	41.6	-22.5	0	61.51	-	-	74	-12.49	-	-	182	119	V
	* 15.958	29.9	ADR	41.6	-22.7	.23	49.03	54	-4.97	-	-	-	-	182	119	V
2	8	40.09	PK-U	36.5	-26.4	0	50.19	-	-	-	-	68.2	-18.01	236	400	H
5	8	42.06	PK-U	36.5	-26.4	0	52.16	-	-	-	-	68.2	-16.04	110	218	V

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

PK-U - U-NII: Maximum Peak

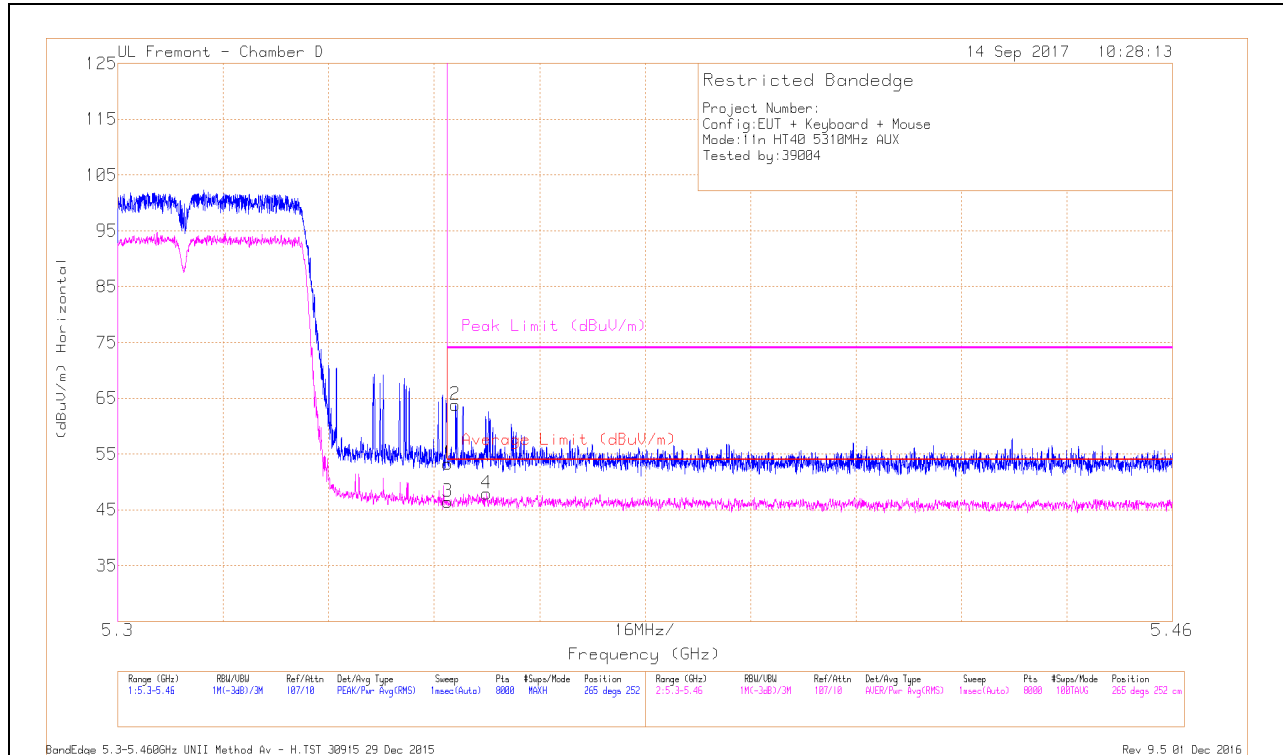
ADR - U-NII AD primary method, RMS average

**5.1.5. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.3 GHz BAND**

**1TX Antenna WF4**

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**



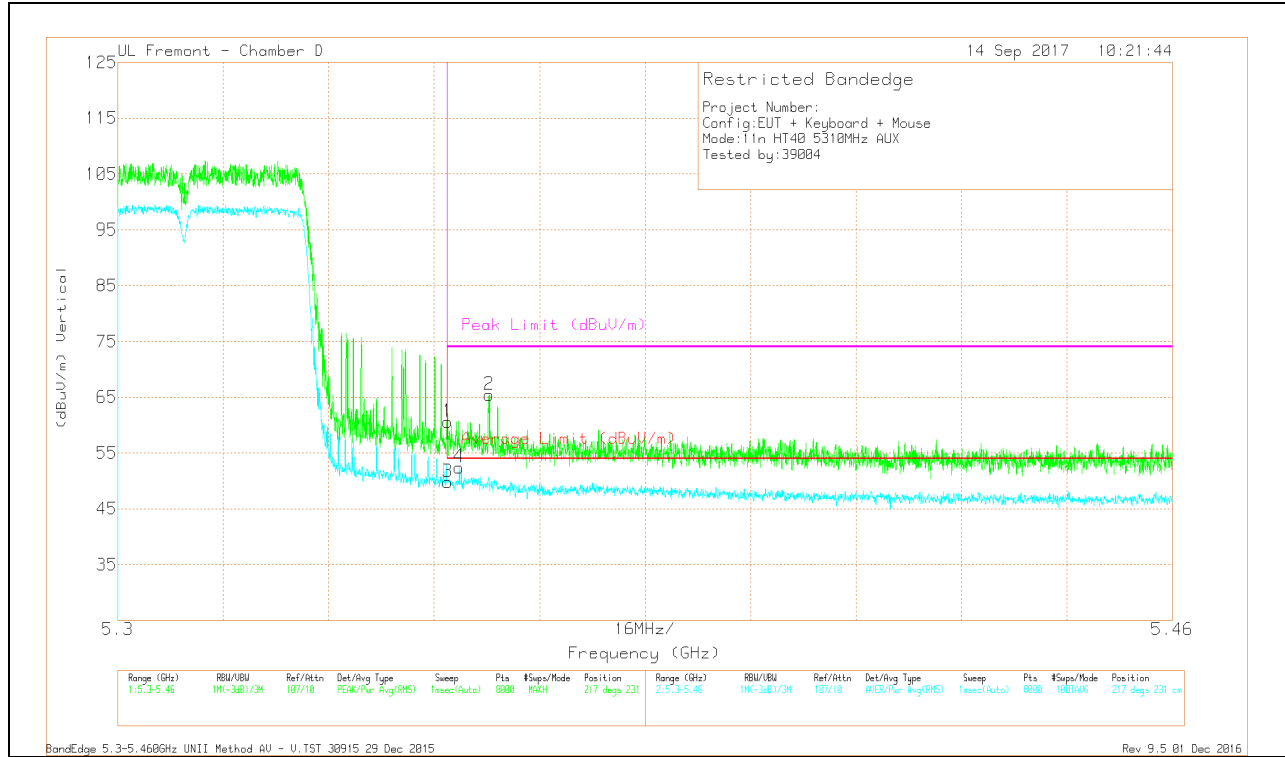
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	37.36	Pk	34.3	-18.4	0	53.26	-	-	74	-20.74	265	252	H
2	* 5.351	47.96	Pk	34.3	-18.4	0	63.86	-	-	74	-10.14	265	252	H
3	* 5.35	30.45	RMS	34.3	-18.4	.09	46.44	54	-7.56	-	-	265	252	H
4	* 5.356	31.9	RMS	34.3	-18.4	.09	47.89	54	-6.11	-	-	265	252	H

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

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT

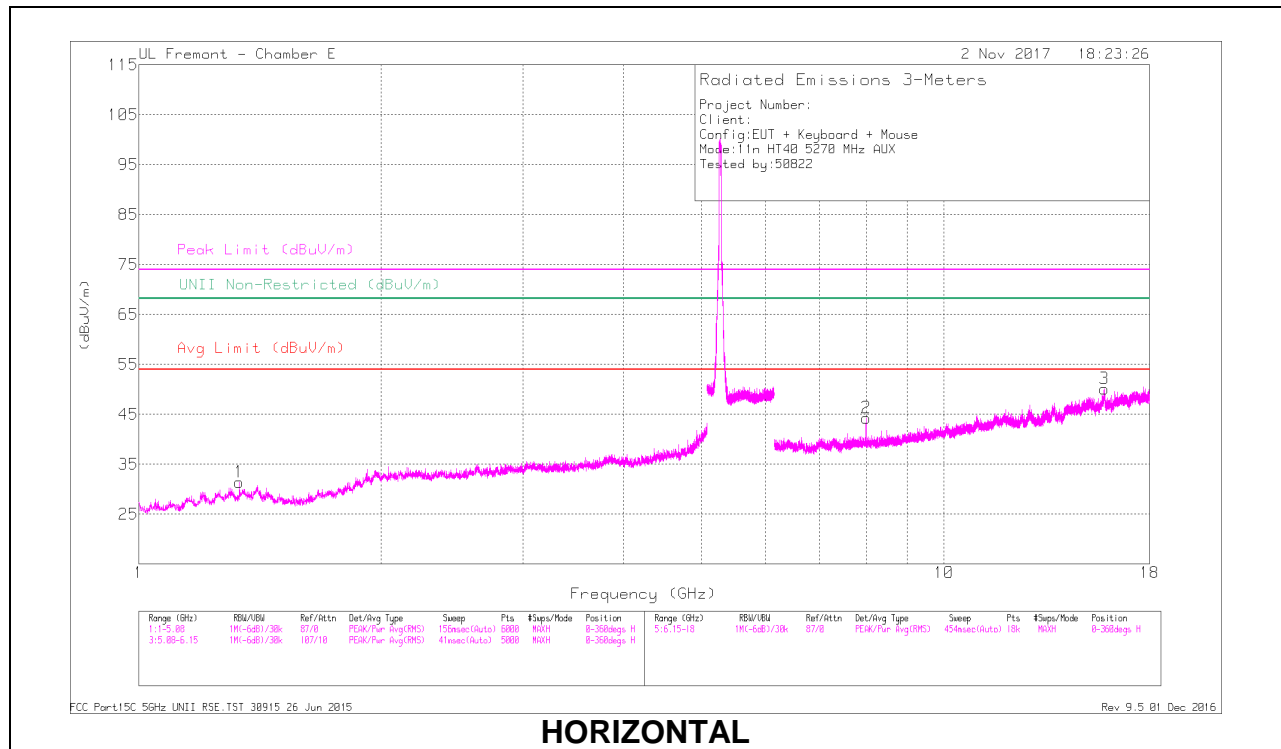


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	44.69	Pk	34.3	-18.4	0	60.59	-	-	74	-13.41	217	231	V
2	* 5.356	49.53	Pk	34.3	-18.4	0	65.43	-	-	74	-8.57	217	231	V
3	* 5.35	33.78	RMS	34.3	-18.4	.09	49.77	54	-4.23	-	-	217	231	V
4	* 5.352	36.47	RMS	34.3	-18.4	.09	52.46	54	-1.54	-	-	217	231	V

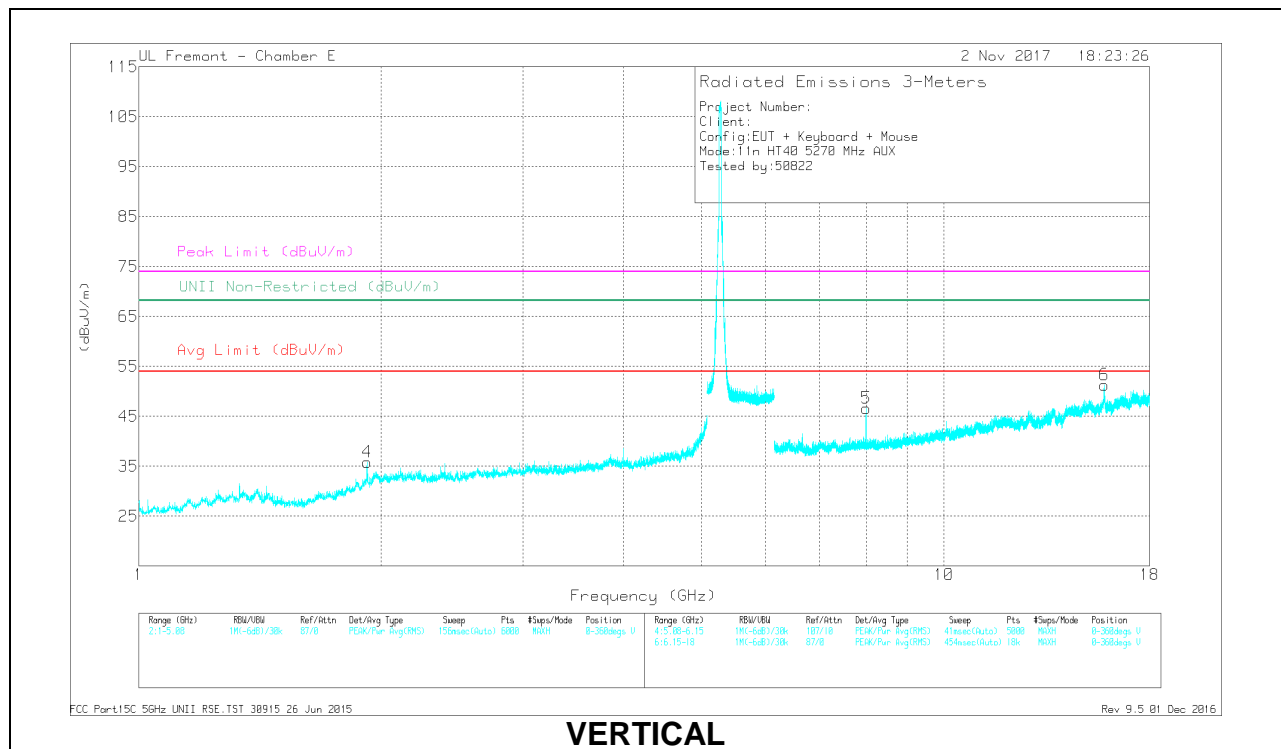
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**HORIZONTAL**



**VERTICAL**

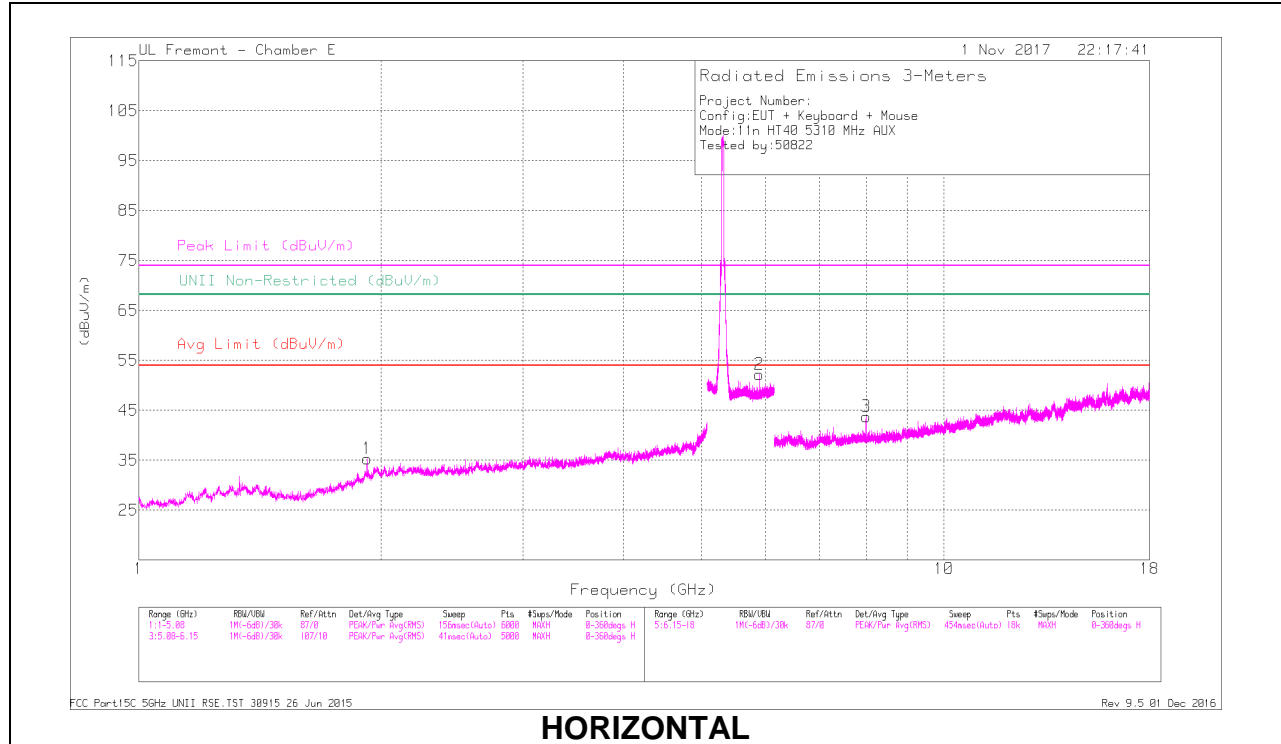
**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.334	44.06	PK-U	28.9	-35	0	37.96	-	-	74	-36.04	-	-	202	100	H
	* 1.333	31.9	ADR	28.9	-35	.09	25.89	54	-28.11	-	-	-	-	202	100	H
3	* 15.821	39.43	PK-U	41.7	-23.1	0	58.03	-	-	74	-15.97	-	-	162	100	H
	* 15.821	27.34	ADR	41.7	-23.1	.09	46.03	54	-7.97	-	-	-	-	162	100	H
6	* 15.815	39.5	PK-U	41.7	-23.2	0	58	-	-	74	-16	-	-	172	101	V
	* 15.816	27.47	ADR	41.7	-23.2	.09	46.06	54	-7.94	-	-	-	-	172	101	V
4	1.92	43.6	PK-U	31.1	-32.8	0	41.9	-	-	-	-	68.2	-26.3	9	100	V
	1.92	35.53	ADR	31.1	-32.8	.09	33.92	-	-	-	-	-	-	9	100	V
2	8	39.33	PK-U	36.5	-26.4	0	49.43	-	-	-	-	68.2	-18.77	148	100	H
	8	32.23	ADR	36.5	-26.4	.09	42.42	-	-	-	-	-	-	148	100	H
5	8	41.45	PK-U	36.5	-26.4	0	51.55	-	-	-	-	68.2	-16.65	106	211	V
	8	36.64	ADR	36.5	-26.4	.09	46.83	-	-	-	-	-	-	106	211	V

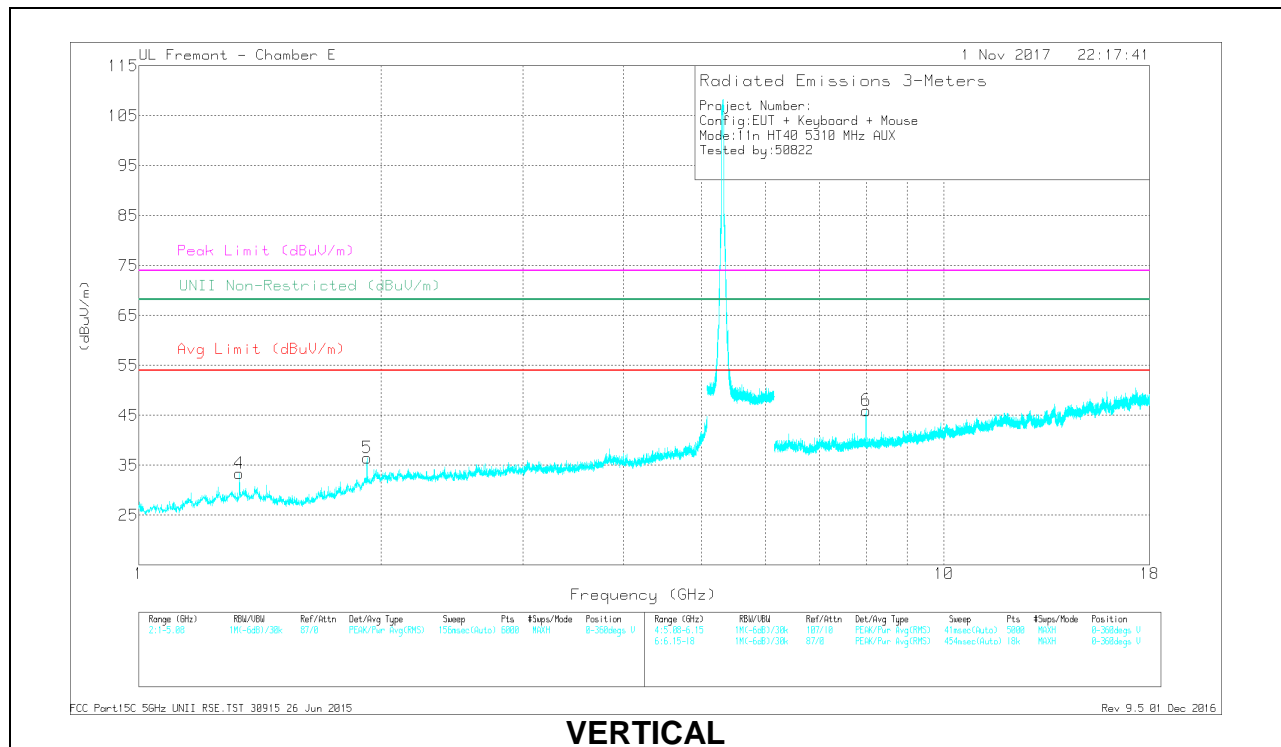
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak  
 ADR - U-NII AD primary method, RMS average



### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.333	44.88	PK-U	28.9	-35	0	38.78	-	-	74	-35.22	-	-	158	386	V
	* 1.333	36.11	ADR	28.9	-35	.09	30.1	54	-23.9	-	-	-	-	158	386	V
1	1.92	42.98	PK-U	31.1	-32.8	0	41.28	-	-	-	-	68.2	-26.92	80	101	H
	1.92	33.59	ADR	31.1	-32.8	.09	31.98	-	-	-	-	-	-	80	101	H
5	1.92	44.39	PK-U	31.1	-32.8	0	42.69	-	-	-	-	68.2	-25.51	350	101	V
	1.92	36.93	ADR	31.1	-32.8	.09	35.32	-	-	-	-	-	-	350	101	V
2	5.9	40.57	PK-U	35.2	-18.8	0	56.97	-	-	-	-	68.2	-11.23	121	101	H
	5.9	31.02	ADR	35.2	-18.8	.09	47.51	-	-	-	-	-	-	121	101	H
3	8	40.37	PK-U	36.5	-26.4	0	50.47	-	-	-	-	68.2	-17.73	240	199	H
	8	34.1	ADR	36.5	-26.4	.09	44.29	-	-	-	-	-	-	240	199	H
6	8	40.14	PK-U	36.5	-26.4	0	50.24	-	-	-	-	68.2	-17.96	204	178	V
	8	33.15	ADR	36.5	-26.4	.09	43.34	-	-	-	-	-	-	204	178	V

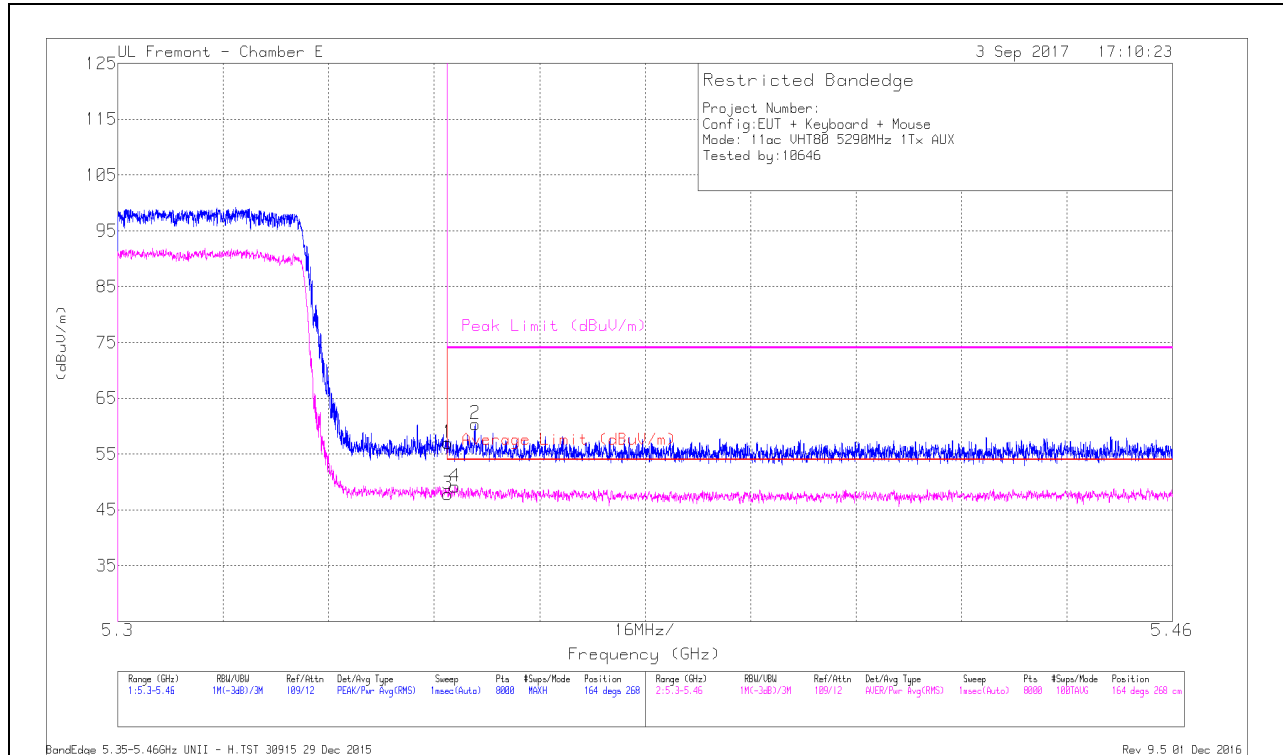
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak  
 ADR - U-NII AD primary method, RMS average

**5.1.6. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.3 GHz BAND**

**1TX Antenna WF4**

**BANDEDGE (MID CHANNEL)**

**HORIZONTAL RESULT**



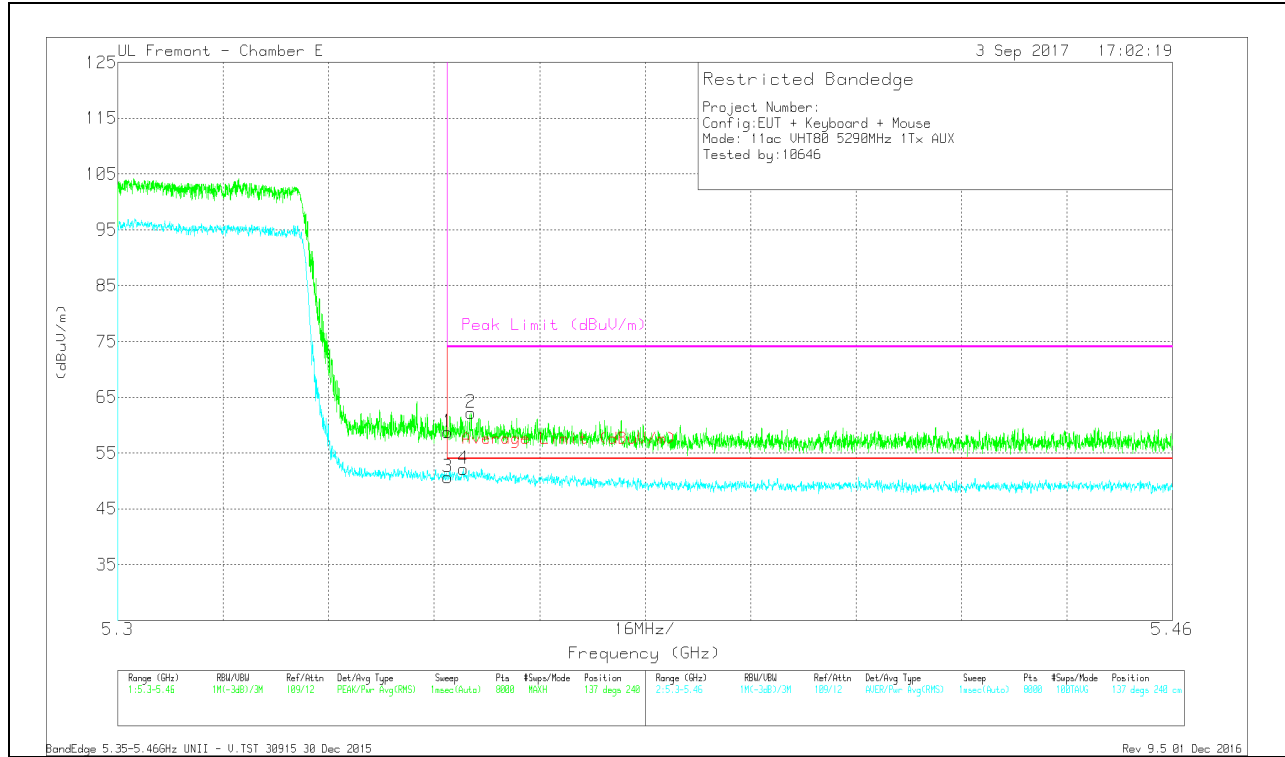
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	40.87	Pk	35	-18.9	0	56.97	-	-	74	-17.03	164	268	H
2	* 5.354	44.31	Pk	35	-18.9	0	60.41	-	-	74	-13.59	164	268	H
3	* 5.35	31.52	RMS	35	-18.9	.2	47.82	54	-6.18	-	-	164	268	H
4	* 5.351	32.92	RMS	35	-18.9	.2	49.22	54	-4.78	-	-	164	268	H

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

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	42.68	Pk	35	-18.9	0	58.78	-	-	74	-15.22	137	240	V
2	* 5.354	46.09	Pk	35	-18.9	0	62.19	-	-	74	-11.81	137	240	V
3	* 5.35	34.42	RMS	35	-18.9	.2	50.72	54	-3.28	-	-	137	240	V
4	* 5.352	35.83	RMS	35	-18.9	.2	52.13	54	-1.87	-	-	137	240	V

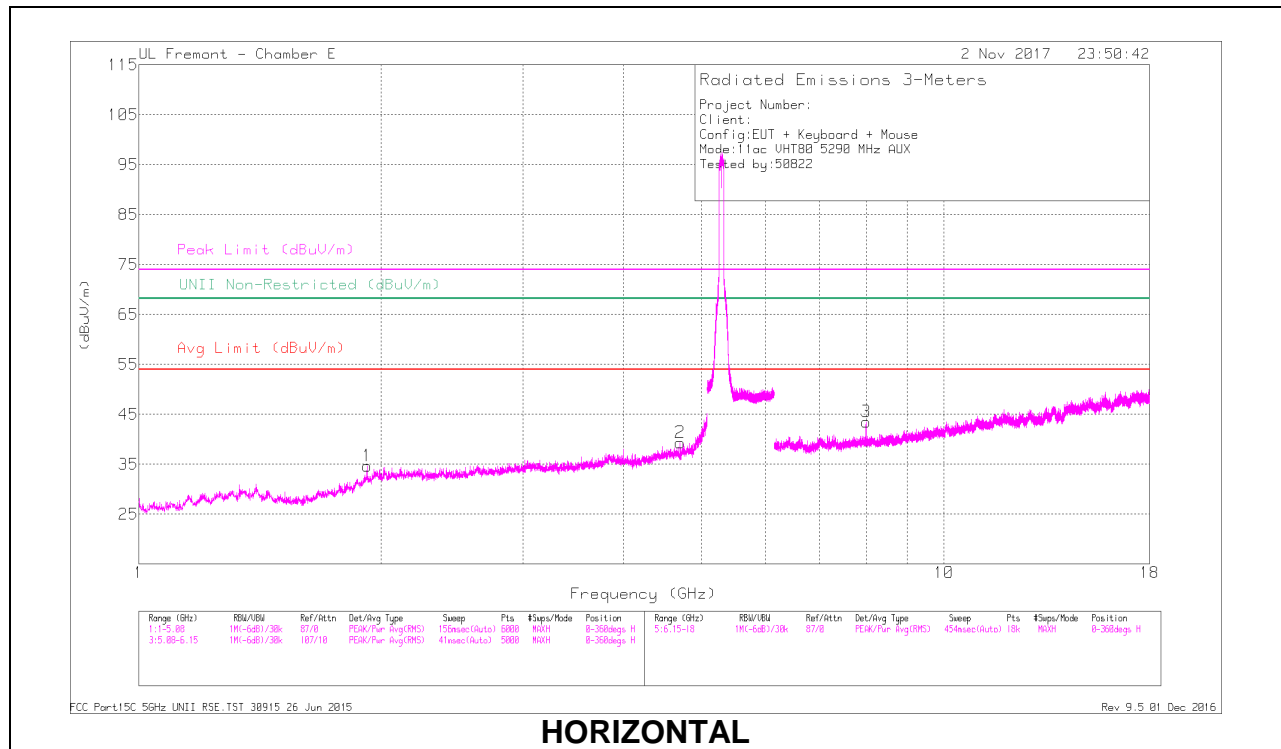
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

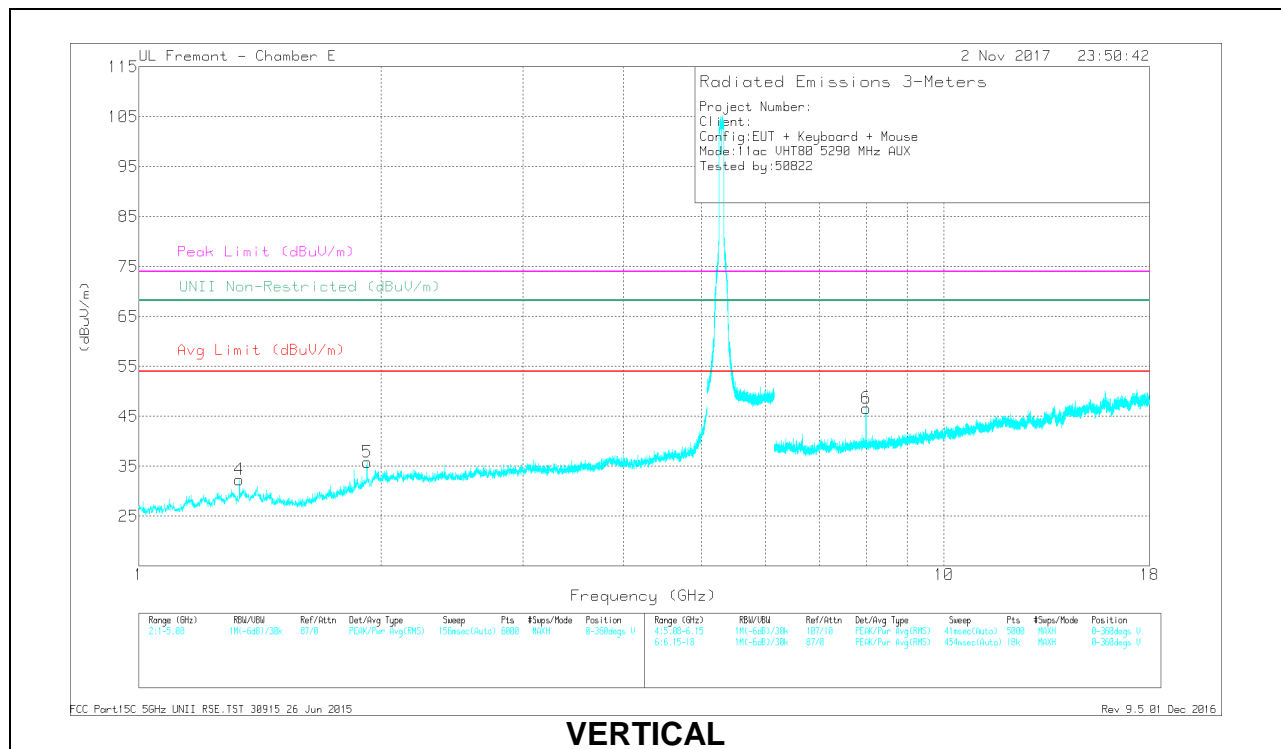
RMS - RMS detection

**HARMONICS AND SPURIOUS EMISSIONS**

**MID CHANNEL RESULTS**



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.702	40.59	PK-U	34.4	-28.8	0	46.19	-	-	74	-27.81	-	-	164	280	H
	* 4.702	31.22	ADR	34.4	-28.8	.2	37.02	54	-16.98	-	-	-	-	164	280	H
4	* 1.333	44.42	PK-U	28.9	-35	0	38.32	-	-	74	-35.68	-	-	0	101	V
	* 1.333	32.86	ADR	28.9	-35	.2	26.96	54	-27.04	-	-	-	-	0	101	V
1	1.92	42.62	PK-U	31.1	-32.8	0	40.92	-	-	-	-	68.2	-27.28	111	101	H
	1.92	33.24	ADR	31.1	-32.8	.2	31.74	-	-	-	-	-	-	111	101	H
5	1.92	43.55	PK-U	31.1	-32.8	0	41.85	-	-	-	-	68.2	-26.35	5	101	V
	1.92	35.55	ADR	31.1	-32.8	.2	34.05	-	-	-	-	-	-	5	101	V
3	8	39.28	PK-U	36.5	-26.4	0	49.38	-	-	-	-	68.2	-18.82	147	101	H
	8	32.24	ADR	36.5	-26.4	.2	42.54	-	-	-	-	-	-	147	101	H
6	8	38.54	PK-U	36.5	-26.4	0	48.64	-	-	-	-	68.2	-19.56	110	293	V
	8	30.1	ADR	36.5	-26.4	.2	40.4	-	-	-	-	-	-	110	293	V

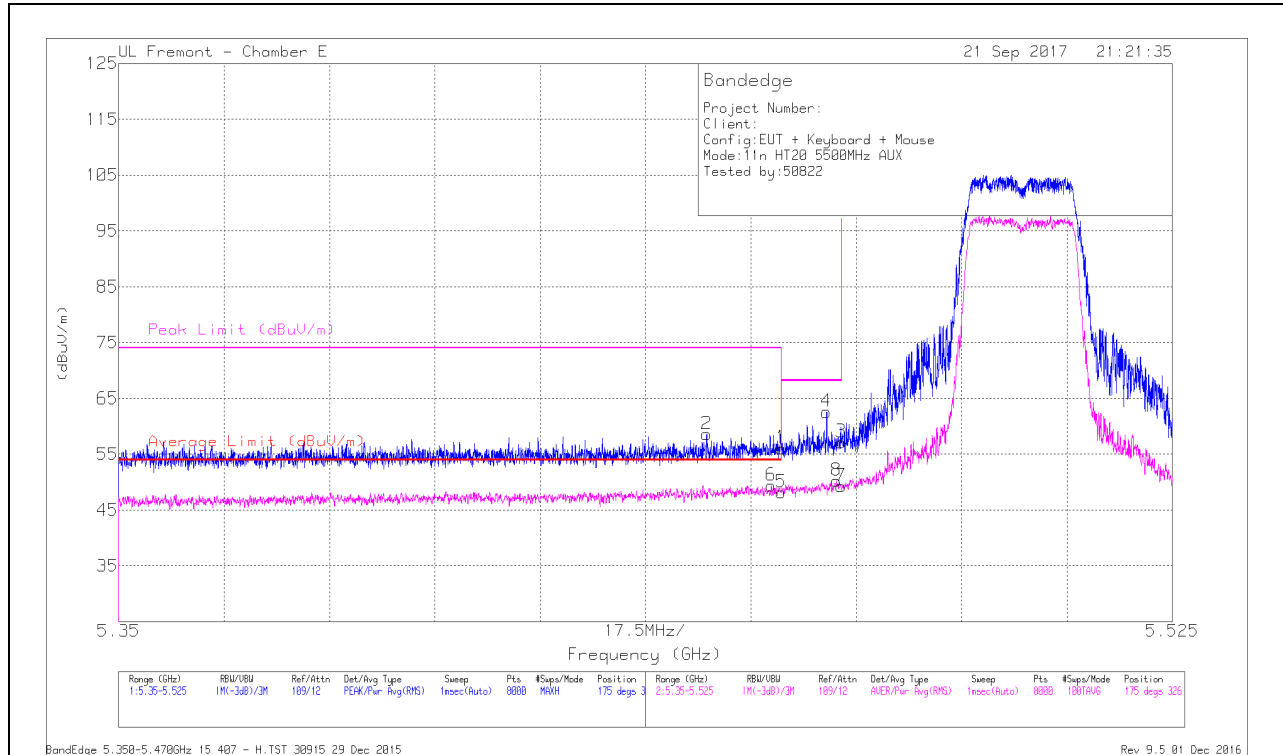
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak  
 ADR - U-NII AD primary method, RMS average

**5.1.7. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.6 GHz BAND**

**1TX Antenna WF4**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



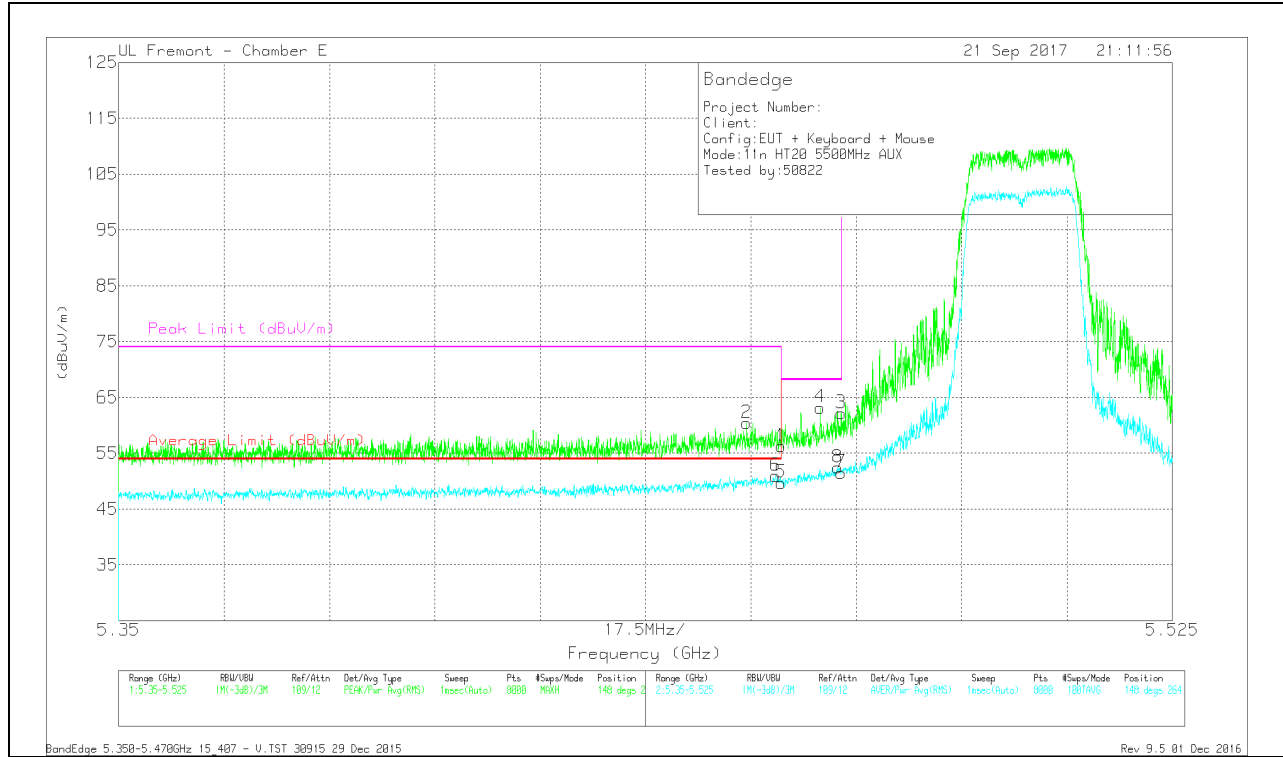
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	39.86	Pk	35.1	-18.9	0	56.06	-	-	74	-17.94	175	326	H
2	* 5.448	42.41	Pk	35.1	-18.9	0	58.61	-	-	74	-15.39	175	326	H
5	* 5.46	31.73	RMS	35.1	-18.9	.23	48.16	54	-5.84	-	-	175	326	H
6	* 5.458	32.94	RMS	35.1	-18.9	.23	49.37	54	-4.63	-	-	175	326	H
4	5.468	46.39	Pk	35.1	-18.9	0	62.59	-	-	68.2	-5.61	175	326	H
8	5.469	33.81	RMS	35.1	-18.9	.23	50.24	-	-	-	-	175	326	H
3	5.47	40.97	Pk	35.1	-18.9	0	57.17	-	-	68.2	-11.03	175	326	H
7	5.47	32.82	RMS	35.1	-18.9	.23	49.25	-	-	-	-	175	326	H

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

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT



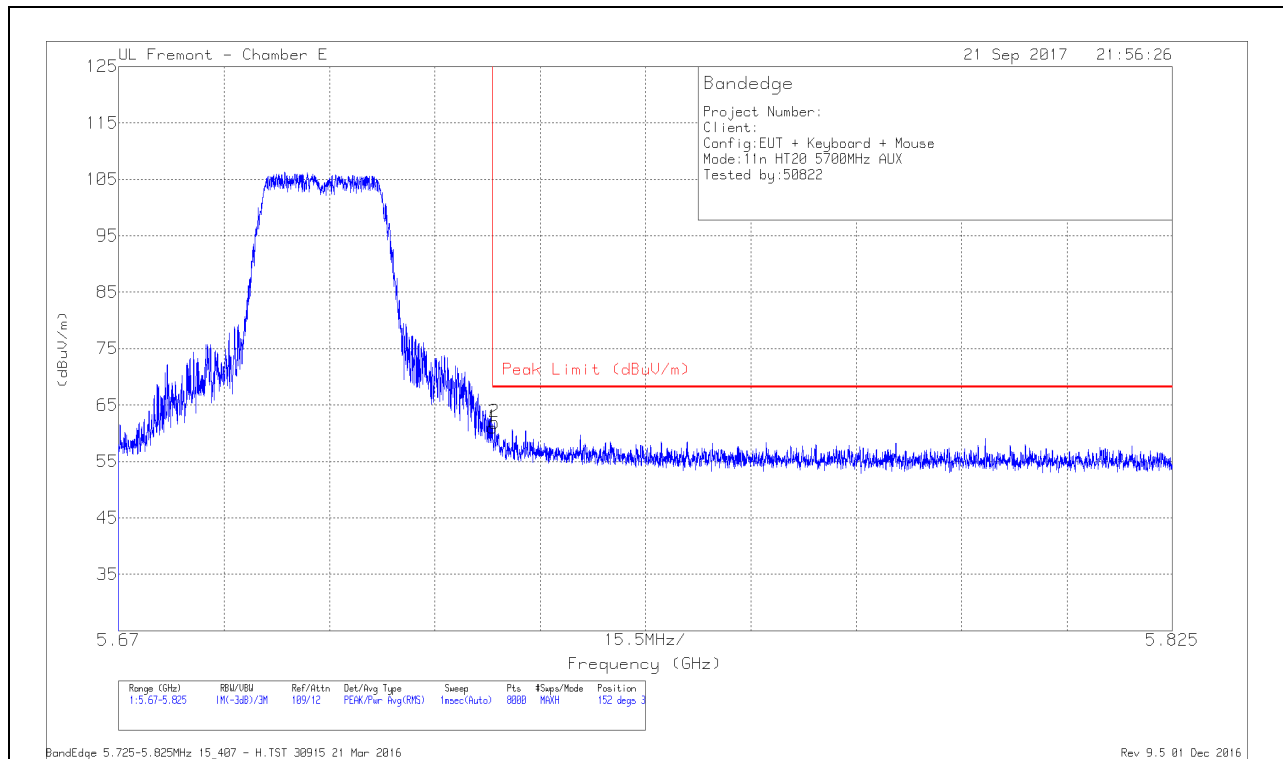
Marker	Frequen- cy (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	DC Corr (dB)	Correct ed Reading (dBuV/ m)	Average Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarity
1	* 5.46	40.05	Pk	35.1	-18.9	0	56.25	-	-	74	-17.75	148	264	V
2	* 5.454	44.21	Pk	35.1	-18.9	0	60.41	-	-	74	-13.59	148	264	V
5	* 5.46	33.27	RMS	35.1	-18.9	.23	49.7	54	-4.3	-	-	148	264	V
6	* 5.459	34.51	RMS	35.1	-18.9	.23	50.94	54	-3.06	-	-	148	264	V
4	5.466	47	Pk	35.1	-18.9	0	63.2	-	-	68.2	-5	148	264	V
8	5.469	36.01	RMS	35.1	-18.9	.23	52.44	-	-	-	-	148	264	V
3	5.47	45.98	Pk	35.1	-18.9	0	62.18	-	-	68.2	-6.02	148	264	V
7	5.47	35.11	RMS	35.1	-18.9	.23	51.54	-	-	-	-	148	264	V

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



**BANDEDGE (HIGH CHANNEL)**

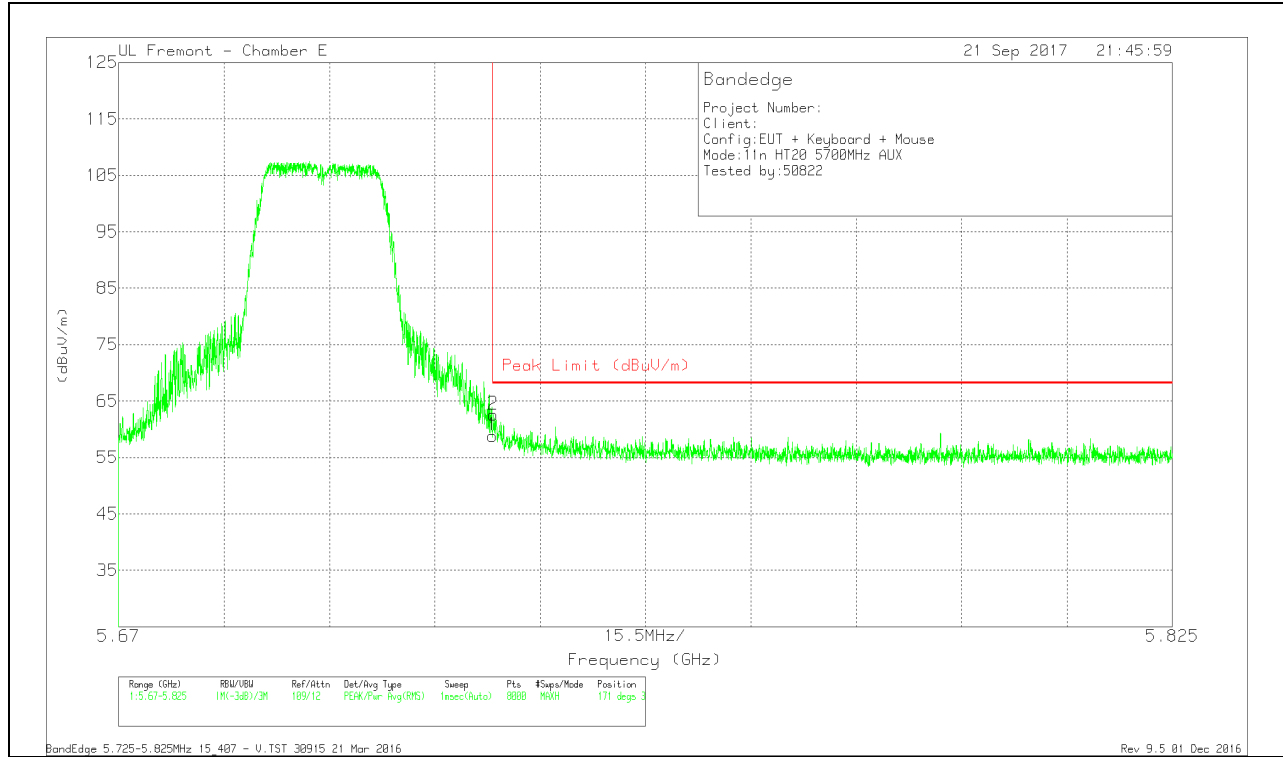
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	45.02	Pk	35.1	-19.1	0	61.02	68.2	-7.18	152	377	H
2	5.725	45.93	Pk	35.1	-19.1	0	61.93	68.2	-6.27	152	377	H

Pk - Peak detector

### VERTICAL RESULT

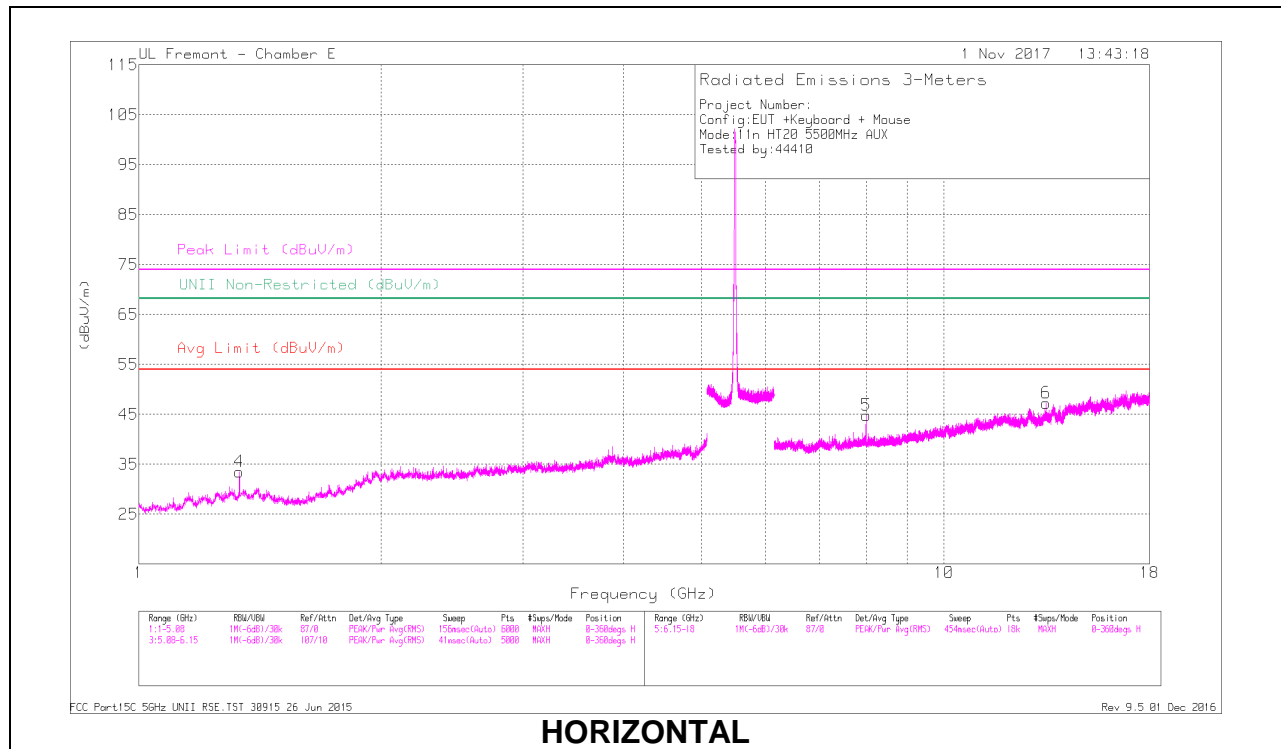


Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	42.89	Pk	35.1	-19.1	0	58.89	68.2	-9.31	171	380	V
2	5.725	46.62	Pk	35.1	-19.1	0	62.62	68.2	-5.58	171	380	V

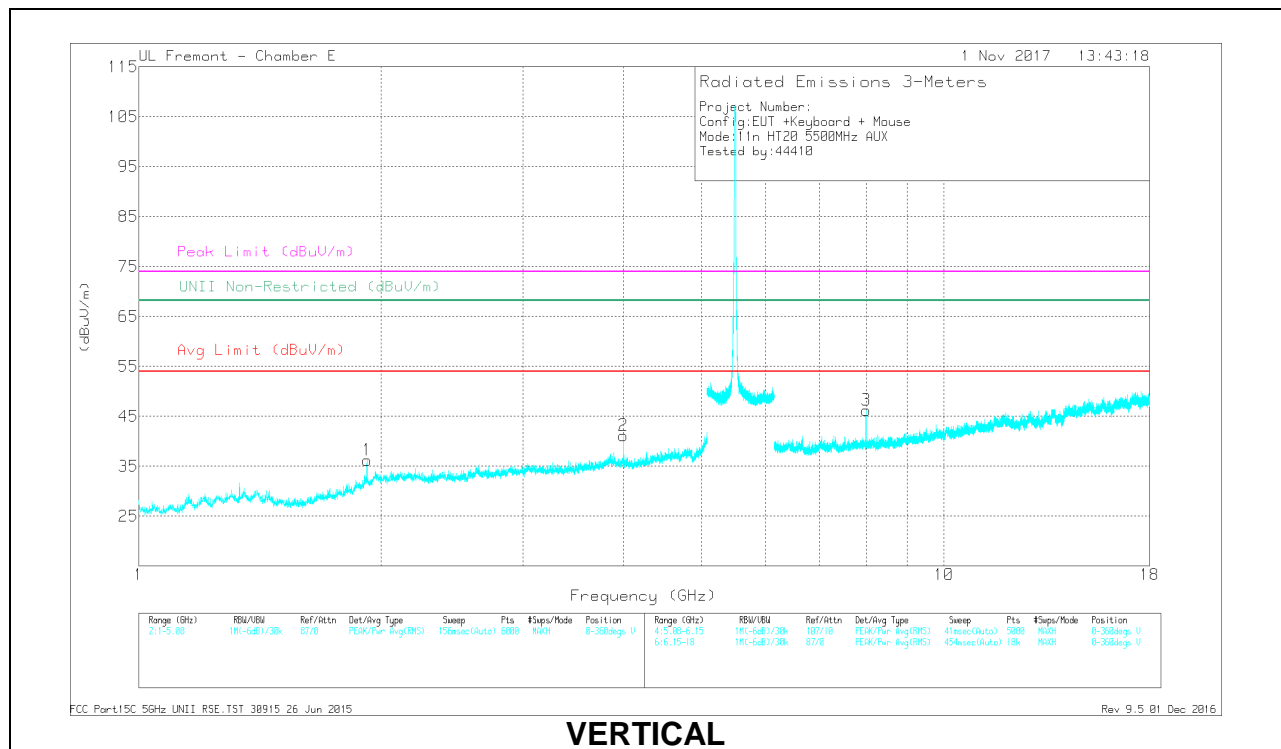
Pk - Peak detector

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**HORIZONTAL**



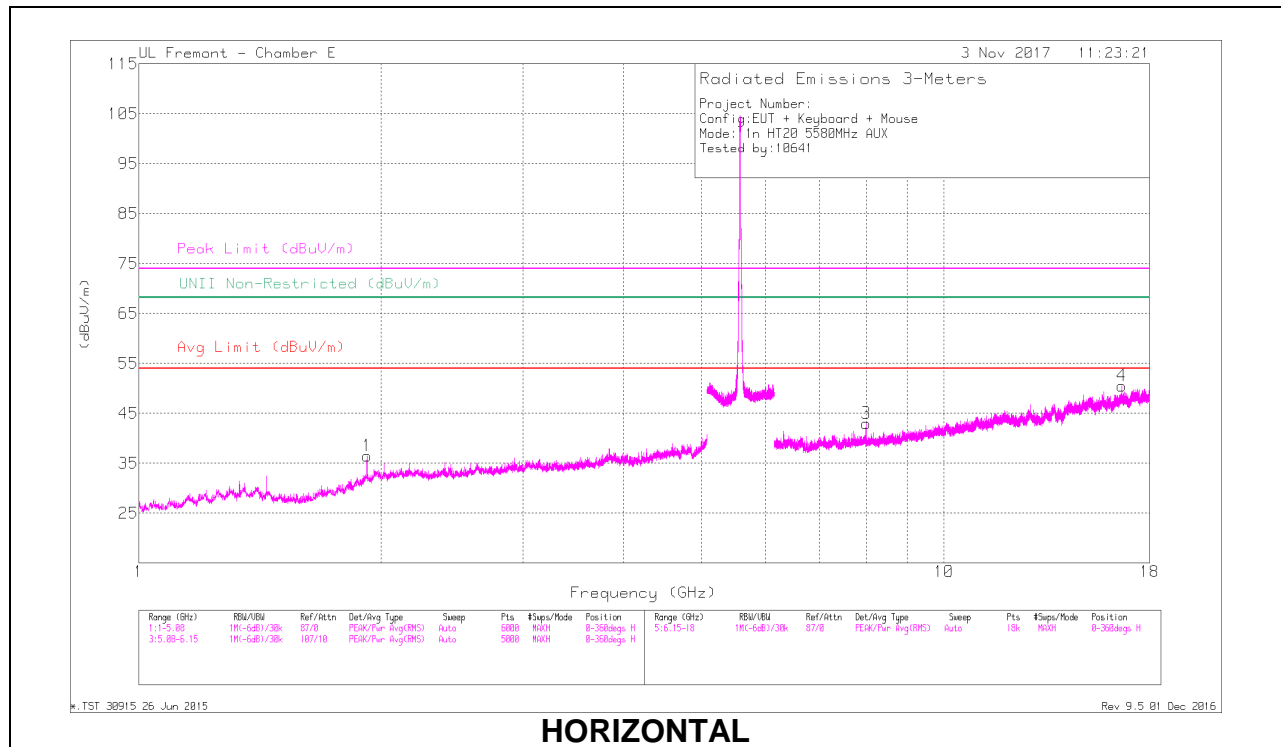
**VERTICAL**

**RADIATED EMISSIONS**

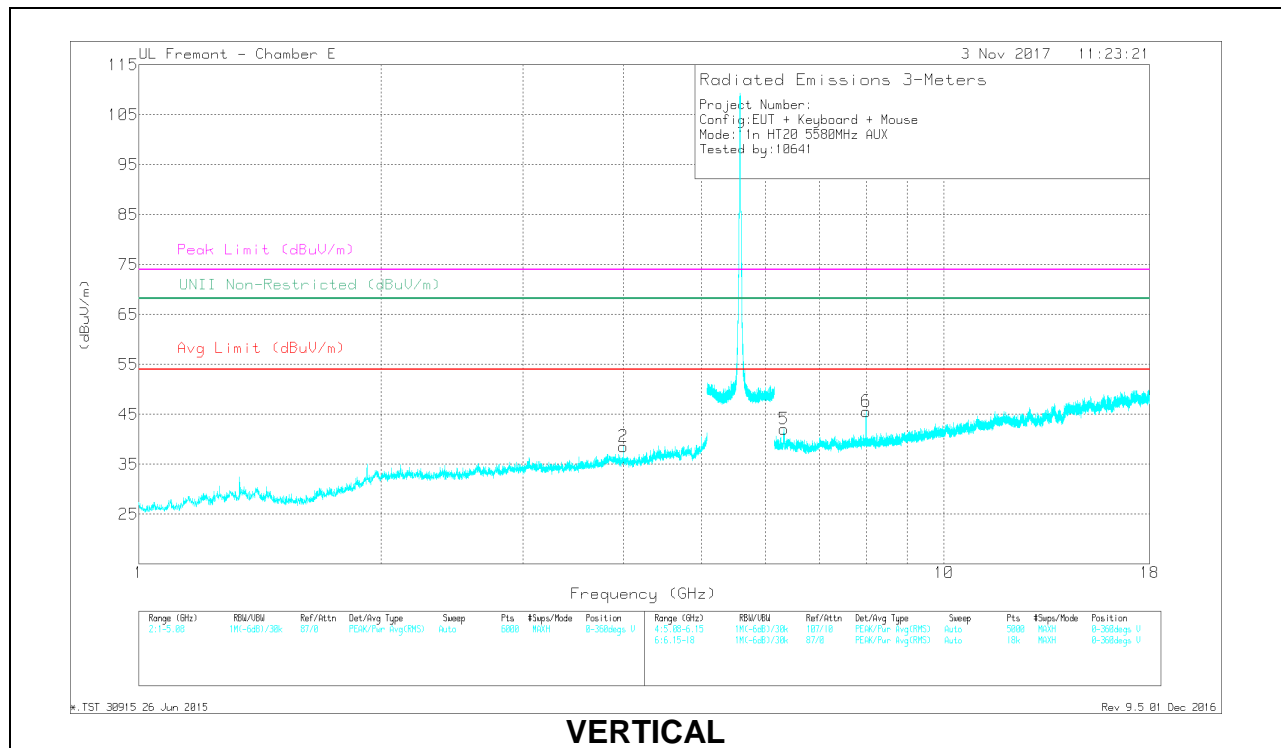
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.333	46.04	PK-U	28.9	-35	0	39.94	-	-	74	-34.06	-	-	189	101	H
	* 1.333	33.3	ADR	28.9	-35	.23	27.43	54	-26.57	-	-	-	-	189	101	H
3	* 4	41.27	PK-U	33.7	-29.5	0	45.47	-	-	74	-28.53	-	-	347	240	V
	* 4	30.57	ADR	33.7	-29.5	.23	35	54	-19	-	-	-	-	347	240	V
6	* 13.385	35.1	PK-U	39.7	-23.5	0	51.3	-	-	74	-22.7	-	-	262	296	H
	* 13.385	23.87	ADR	39.7	-23.5	.23	40.3	54	-13.7	-	-	-	-	262	296	H
1	1.92	44.47	PK-U	31.1	-32.8	0	42.77	-	-	-	-	68.2	-25.43	14	190	V
5	8	39.99	PK-U	36.5	-26.4	0	50.09	-	-	-	-	68.2	-18.11	236	399	H
2	8	41.78	PK-U	36.5	-26.4	0	51.88	-	-	-	-	68.2	-16.32	108	224	V

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

### MID CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

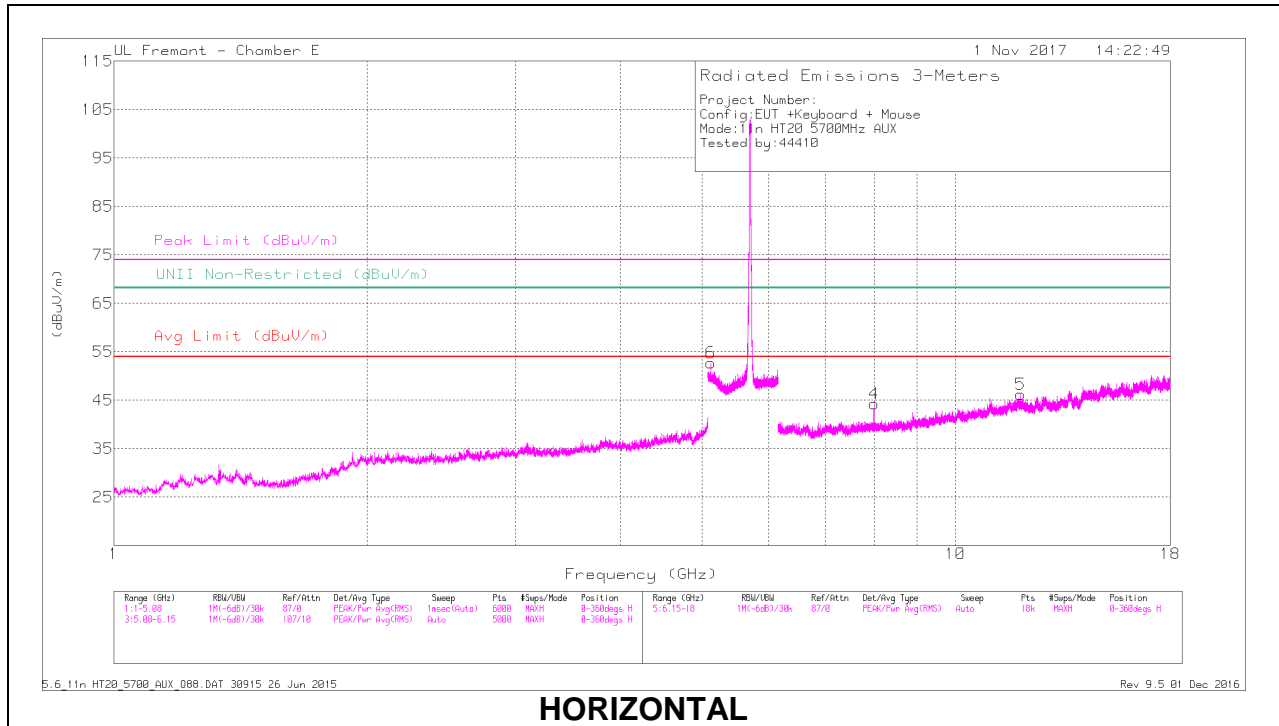
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4	41.87	PK-U	33.7	-29.5	0	46.07	-	-	74	-27.93	-	-	333	252	V
	* 4	30.43	ADR	33.7	-29.5	.23	34.86	54	-19.14	-	-	-	-	333	252	V
1	1.92	44.44	PK-U	31.1	-32.8	0	42.74	-	-	-	-	68.2	-25.46	92	133	H
5	6.327	40.84	PK-U	36.1	-28.2	0	48.74	-	-	-	-	68.2	-19.46	165	118	V
3	8	39.27	PK-U	36.5	-26.4	0	49.37	-	-	-	-	68.2	-18.83	236	304	H
6	8	40.7	PK-U	36.5	-26.4	0	50.8	-	-	-	-	68.2	-17.4	211	209	V
4	16.624	34.44	PK-U	41.8	-21.6	0	54.64	-	-	-	-	68.2	-13.56	185	104	H

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

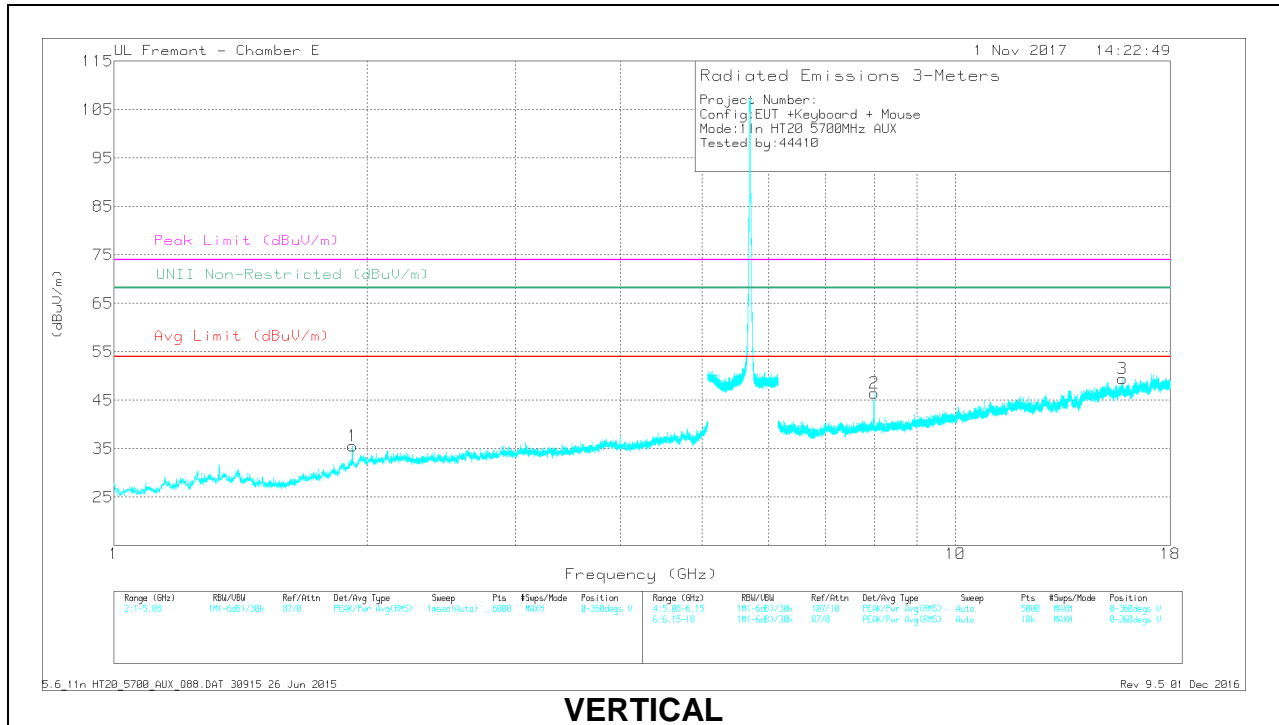
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

marker	Frequen cy (GHz)	Mete r Readi ng (dBu V)	Det	AF T346 (dB/m)	Amp/C b/Filtr/ Pad (dB)	DC Corr (dB)	Correc ted Readin g (dBuV/ m)	Avg Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	UNII Non- Restric ted (dBuV/ m)	PK Margin (dB)	Azimet h (Degs)	Height (cm)	Polarit y
6	* 5.12	40.54	PK-U	34.7	-18.3	0	56.94	-	-	74	-17.06	-	-	203	114	H
	* 5.117	28.85	ADR	34.7	-18.3	.23	45.48	54	-8.52	-	-	-	-	203	114	H
5	* 11.947	35.4	PK-U	39.6	-24	0	51	-	-	74	-23	-	-	214	383	H
	* 11.948	23.86	ADR	39.6	-24	.23	39.69	54	-14.31	-	-	-	-	214	383	H
3	* 15.789	35.5	PK-U	41.7	-22.8	0	54.4	-	-	74	-19.6	-	-	207	168	V
	* 15.789	24.13	ADR	41.7	-22.8	.23	43.26	54	-10.74	-	-	-	-	207	168	V
1	1.92	43.17	PK-U	31.1	-32.8	0	41.47	-	-	-	-	68.2	-26.73	12	211	V
4	8	40.05	PK-U	36.5	-26.4	0	50.15	-	-	-	-	68.2	-18.05	240	191	H
2	8	41.71	PK-U	36.5	-26.4	0	51.81	-	-	-	-	68.2	-16.39	108	226	V

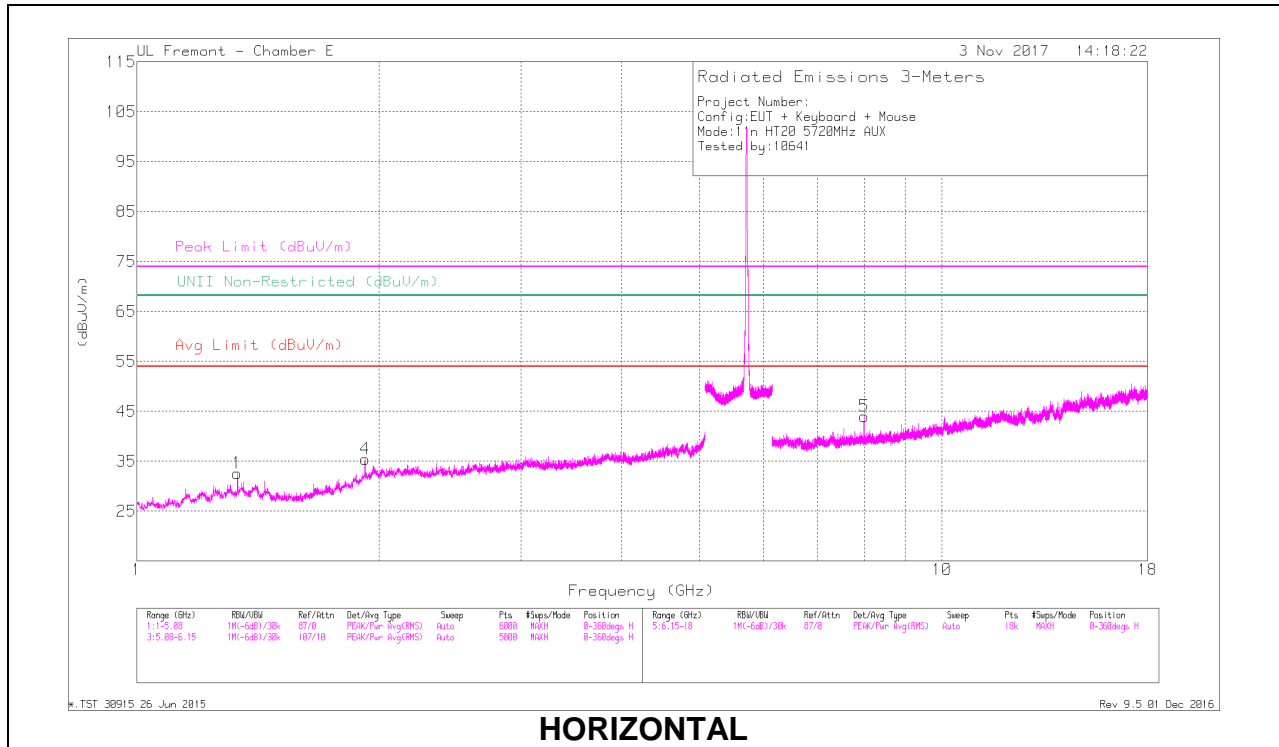
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

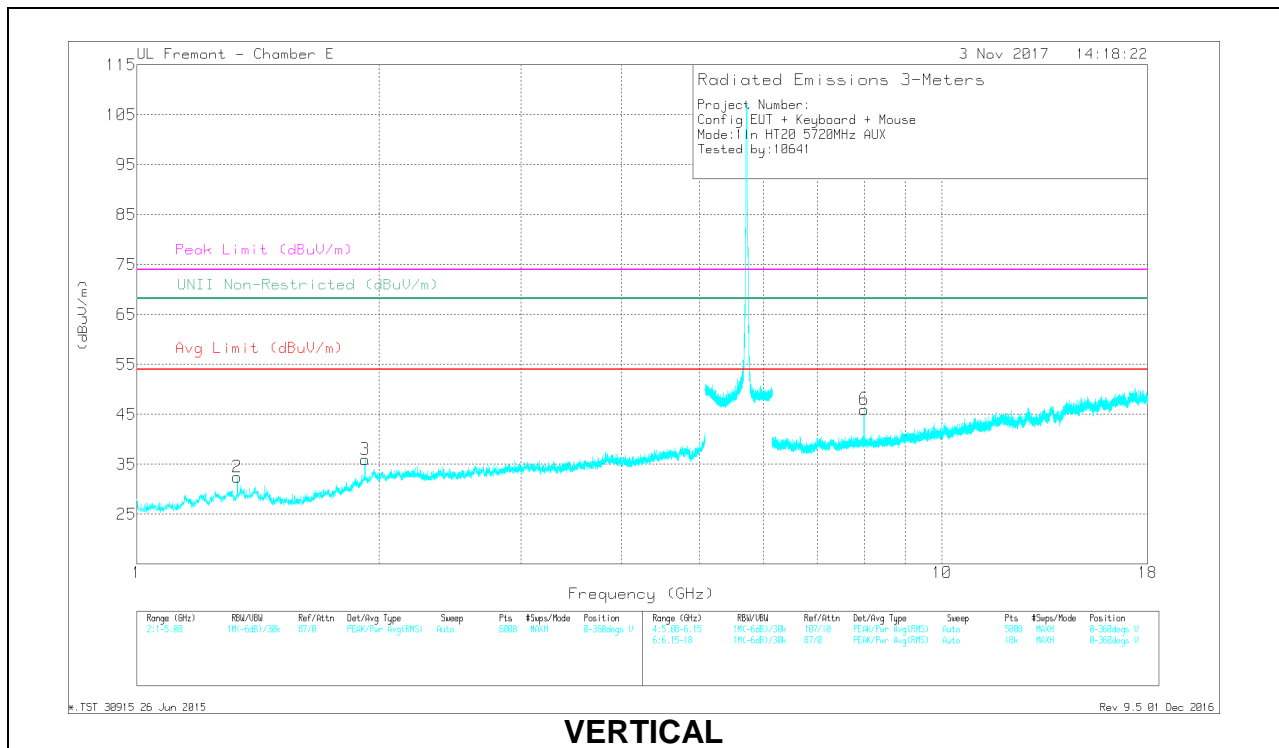
ADR - U-NII AD primary method, RMS average



### CHANNEL 144 RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.333	43.36	PK-U	28.9	-35	0	37.26	-	-	74	-36.74	-	-	238	215	H
	* 1.333	31.12	ADR	28.9	-35	.23	25.25	54	-28.75	-	-	-	-	238	215	H
2	* 1.333	43.76	PK-U	28.9	-35	0	37.66	-	-	74	-36.34	-	-	127	165	V
	* 1.333	31.62	ADR	28.9	-35	.23	25.75	54	-28.25	-	-	-	-	127	165	V
4	1.92	43.95	PK-U	31.1	-32.8	0	42.25	-	-	-	-	68.2	-25.95	99	134	H
3	1.92	42.9	PK-U	31.1	-32.8	0	41.2	-	-	-	-	68.2	-27	0	124	V
5	8	39.78	PK-U	36.5	-26.4	0	49.88	-	-	-	-	68.2	-18.32	241	143	H
8	8	39.77	PK-U	36.5	-26.4	0	49.87	-	-	-	-	68.2	-18.33	337	225	V

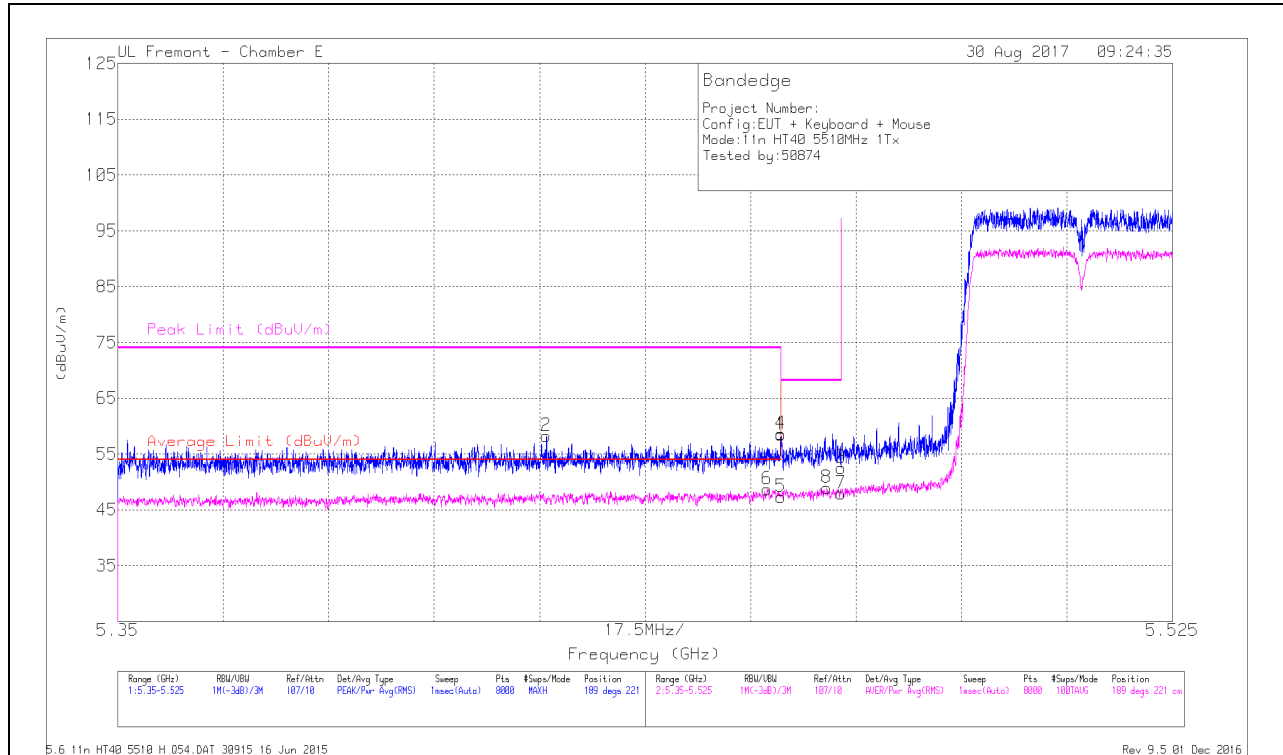
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak  
 ADR - U-NII AD primary method, RMS average

**5.1.8. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.6 GHz BAND**

**1TX Antenna WF4**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



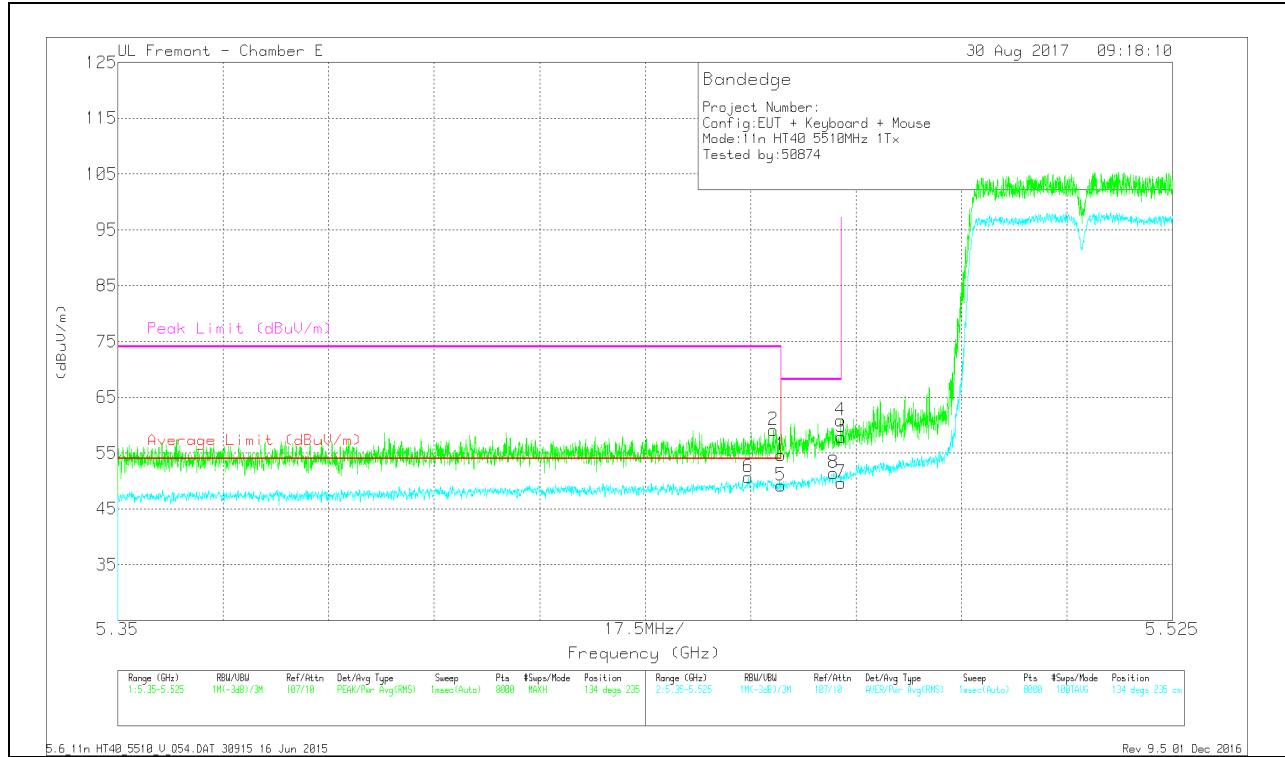
Marker	Frequen cy (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb l/Filtr/Pa d (dB)	DC Corr (dB)	Correct ed Reading (dBuV/ m)	Average Limit (dBuV/ m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.421	43.2	Pk	35.1	-20.1	0	58.2	-	-	74	-15.8	189	221	H
6	* 5.458	33.47	RMS	35.1	-20	.09	48.66	54	-5.34	-	-	189	221	H
1	* 5.46	43.33	Pk	35.1	-20	0	58.43	-	-	74	-15.57	189	221	H
5	* 5.46	32.11	RMS	35.1	-20	.09	47.3	54	-6.7	-	-	189	221	H
4	5.46	43.53	Pk	35.1	-20	0	58.63	-	-	68.2	-9.57	189	221	H
8	5.468	33.65	RMS	35.1	-19.9	.09	48.94	-	-	-	-	189	221	H
3	5.47	37.28	Pk	35.1	-19.9	0	52.48	-	-	68.2	-15.72	189	221	H
7	5.47	32.61	RMS	35.1	-19.9	.09	47.9	-	-	-	-	189	221	H

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

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT

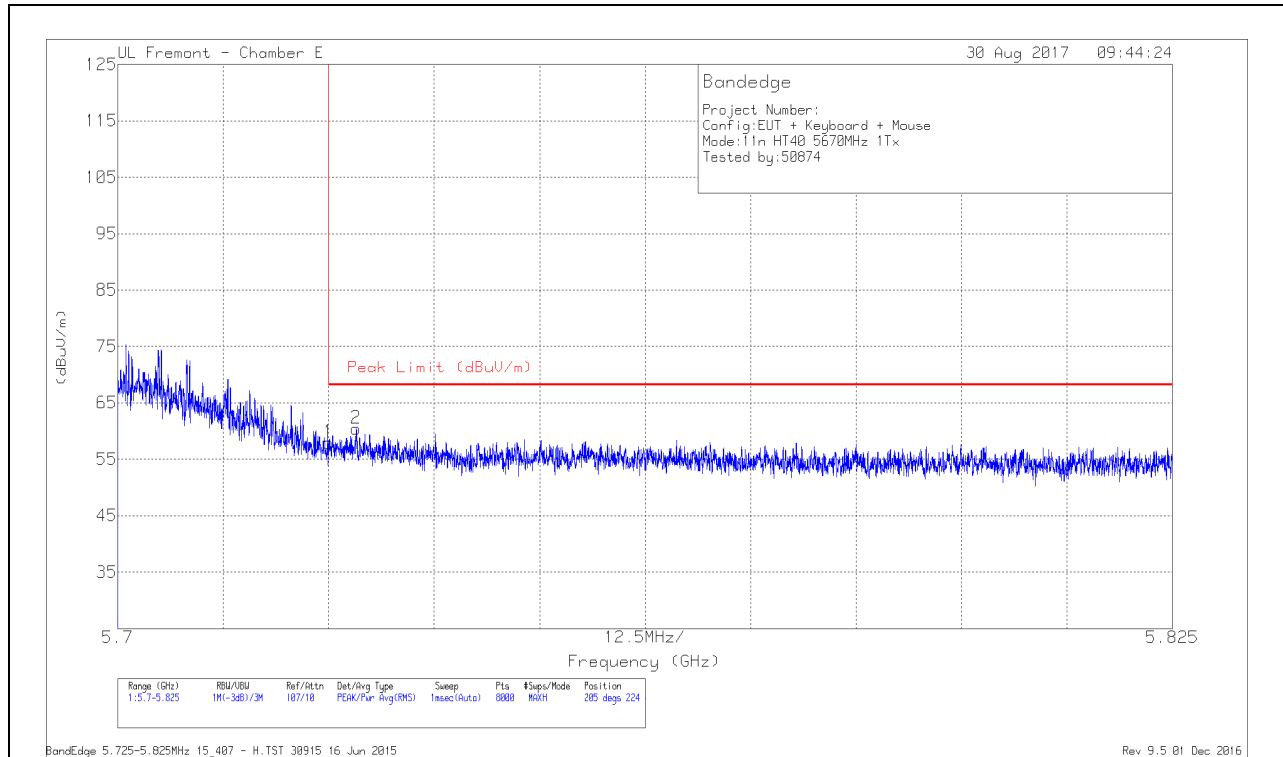


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb l/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 5.455	35.51	RMS	35.1	-20	.09	50.7	54	-3.3	-	-	134	235	V
2	* 5.459	44.05	Pk	35.1	-20	0	59.15	-	-	74	-14.85	134	235	V
1	* 5.46	39.54	Pk	35.1	-20	0	54.64	-	-	74	-19.36	134	235	V
5	* 5.46	33.96	RMS	35.1	-20	.09	49.15	54	-4.85	-	-	134	235	V
8	5.469	36.12	RMS	35.1	-19.9	.09	51.41	-	-	-	-	134	235	V
3	5.47	42.68	Pk	35.1	-19.9	0	57.88	-	-	68.2	-10.32	134	235	V
4	5.47	45.66	Pk	35.1	-19.9	0	60.86	-	-	68.2	-7.34	134	235	V
7	5.47	34.4	RMS	35.1	-19.9	.09	49.69	-	-	-	-	134	235	V

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

**BANDEDGE (HIGH CHANNEL)**

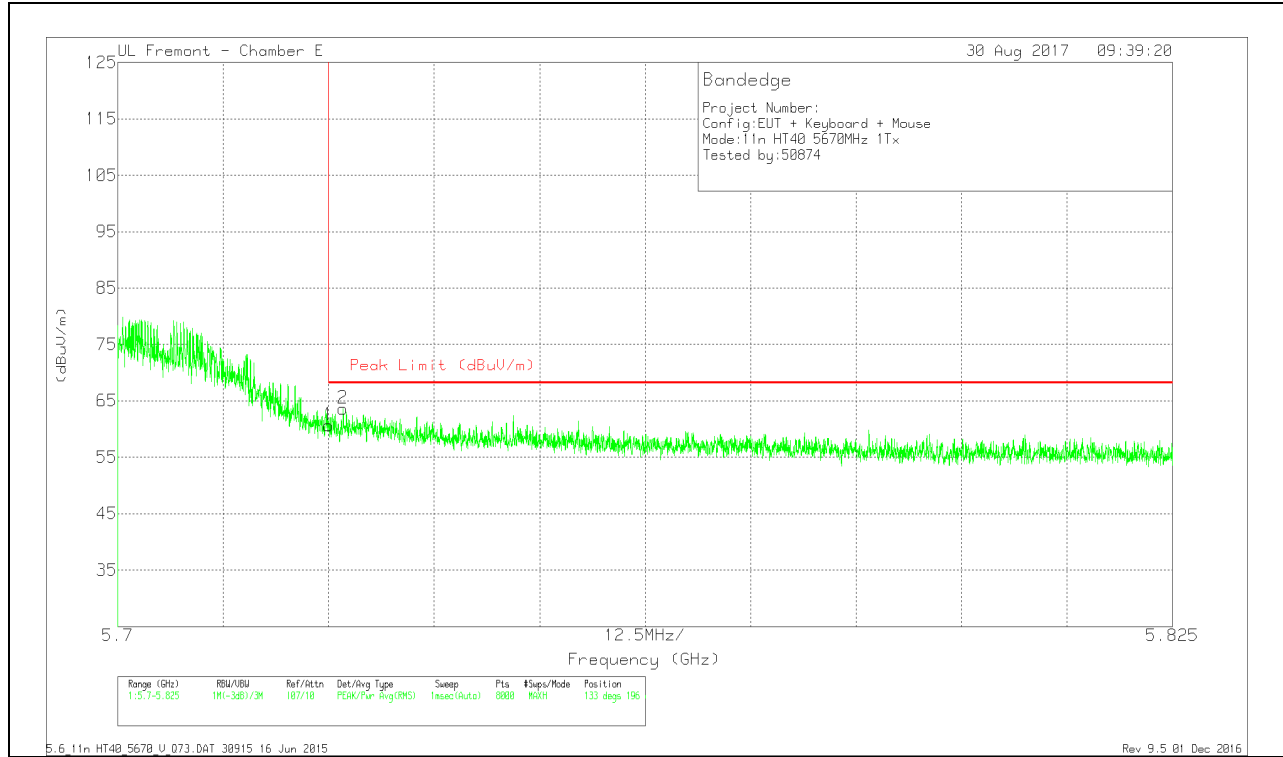
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	42.32	Pk	35.1	-19.5	0	57.92	68.2	-10.28	205	224	H
2	5.728	44.79	Pk	35.1	-19.5	0	60.39	68.2	-7.81	205	224	H

Pk - Peak detector

### VERTICAL RESULT

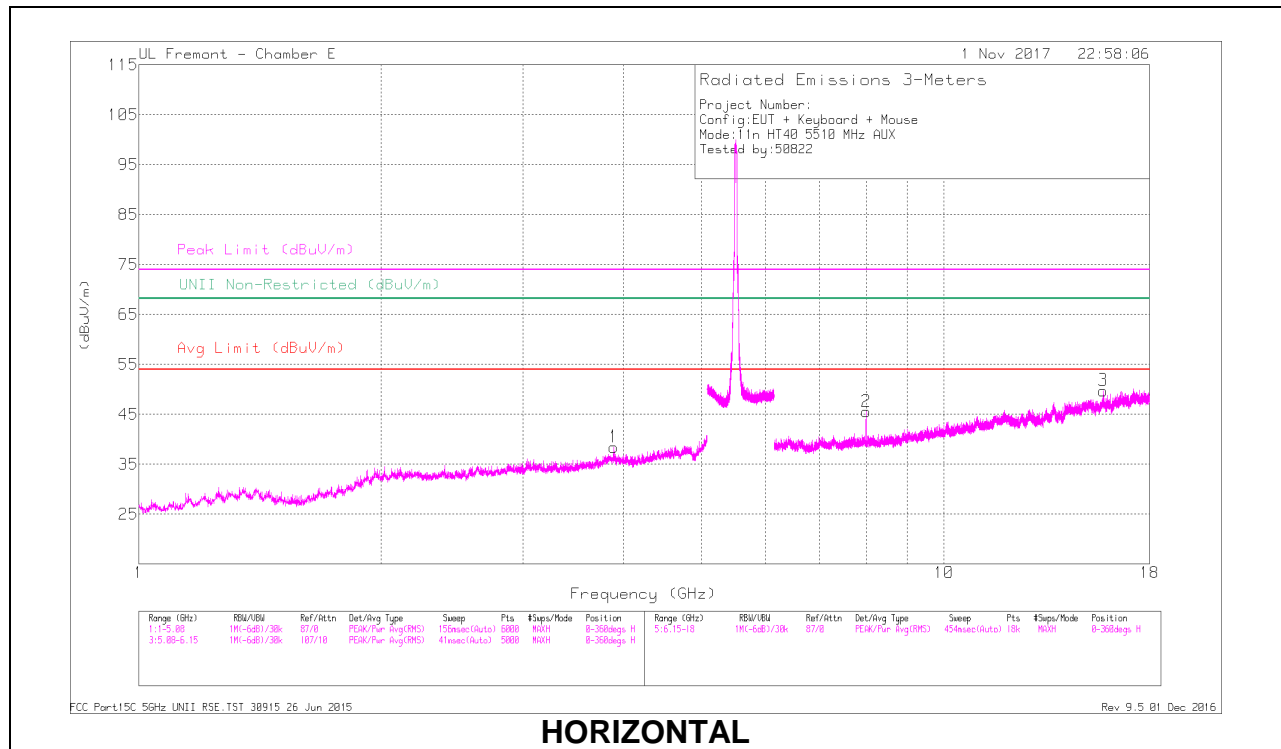


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	45.1	PK	35.1	-19.5	0	60.7	68.2	-7.5	133	196	V
2	5.727	47.98	PK	35.1	-19.5	0	63.58	68.2	-4.62	133	196	V

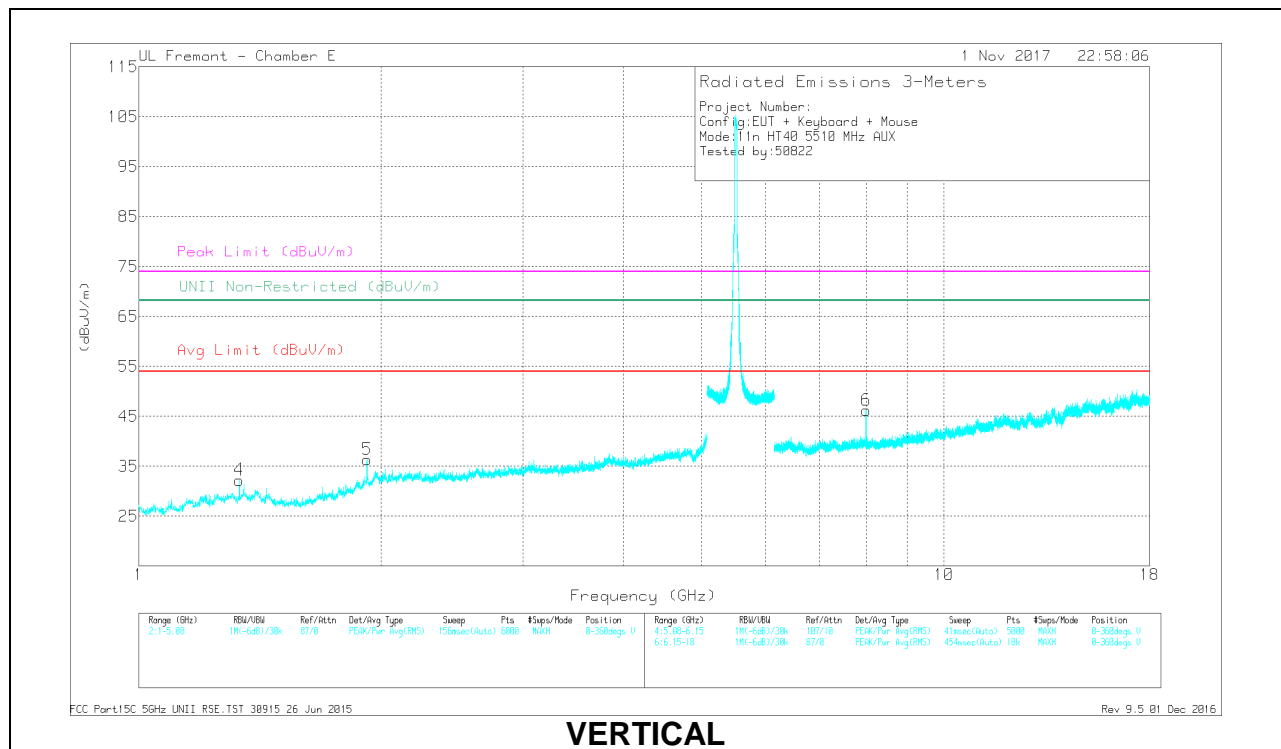
Pk - Peak detector

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**HORIZONTAL**



**VERTICAL**

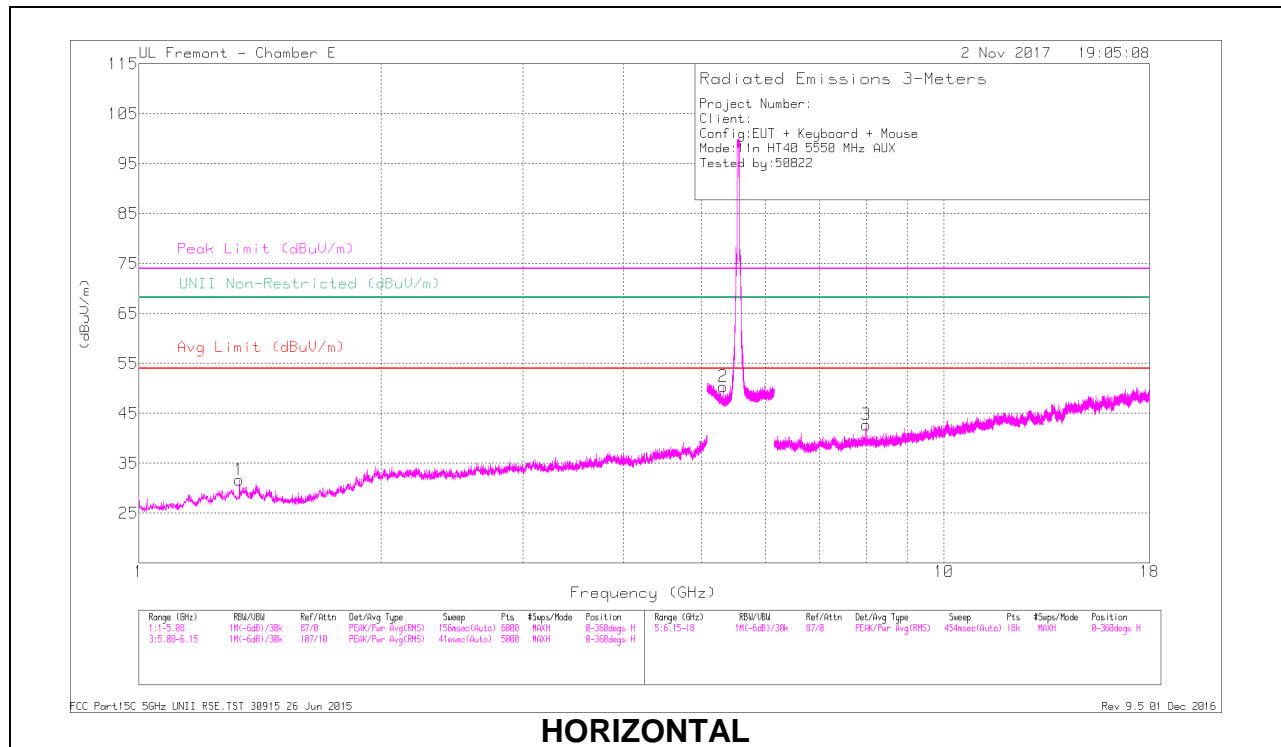
**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.887	39.99	PK-U	33.7	-29.8	0	43.89	-	-	74	-30.11	-	-	239	329	H
	* 3.886	28.29	ADR	33.7	-29.8	.09	32.28	54	-21.72	-	-	-	-	239	329	H
4	* 1.333	44.22	PK-U	28.9	-35	0	38.12	-	-	74	-35.88	-	-	174	101	V
	* 1.333	32.13	ADR	28.9	-35	.09	26.12	54	-27.88	-	-	-	-	174	101	V
3	* 15.773	35.45	PK-U	41.7	-23.1	0	54.05	-	-	74	-19.95	-	-	349	101	H
	* 15.773	24.33	ADR	41.7	-23	.09	43.12	54	-10.88	-	-	-	-	349	101	H
5	1.92	44.74	PK-U	31.1	-32.8	0	43.04	-	-	-	-	68.2	-25.16	354	101	V
	1.92	36.8	ADR	31.1	-32.8	.09	35.19	-	-	-	-	-	-	354	101	V
2	8	39.89	PK-U	36.5	-26.4	0	49.99	-	-	-	-	68.2	-18.21	240	199	H
	8	33.8	ADR	36.5	-26.4	.09	43.99	-	-	-	-	-	-	240	199	H
6	8	39.79	PK-U	36.5	-26.4	0	49.89	-	-	-	-	68.2	-18.31	209	179	V
	8	32.17	ADR	36.5	-26.4	.09	42.36	-	-	-	-	-	-	209	179	V

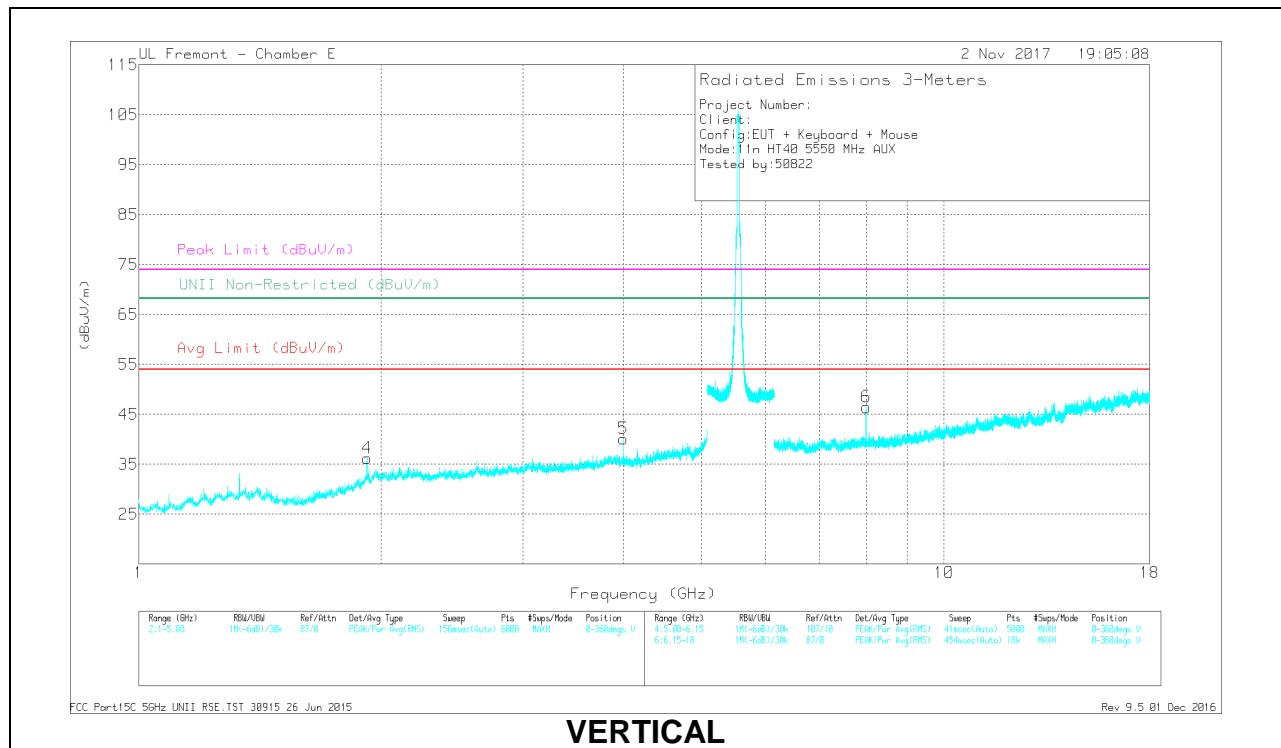
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 PK-U - U-NII: Maximum Peak  
 ADR - U-NII AD primary method, RMS average



### MID CHANNEL RESULTS



### HORIZONTAL



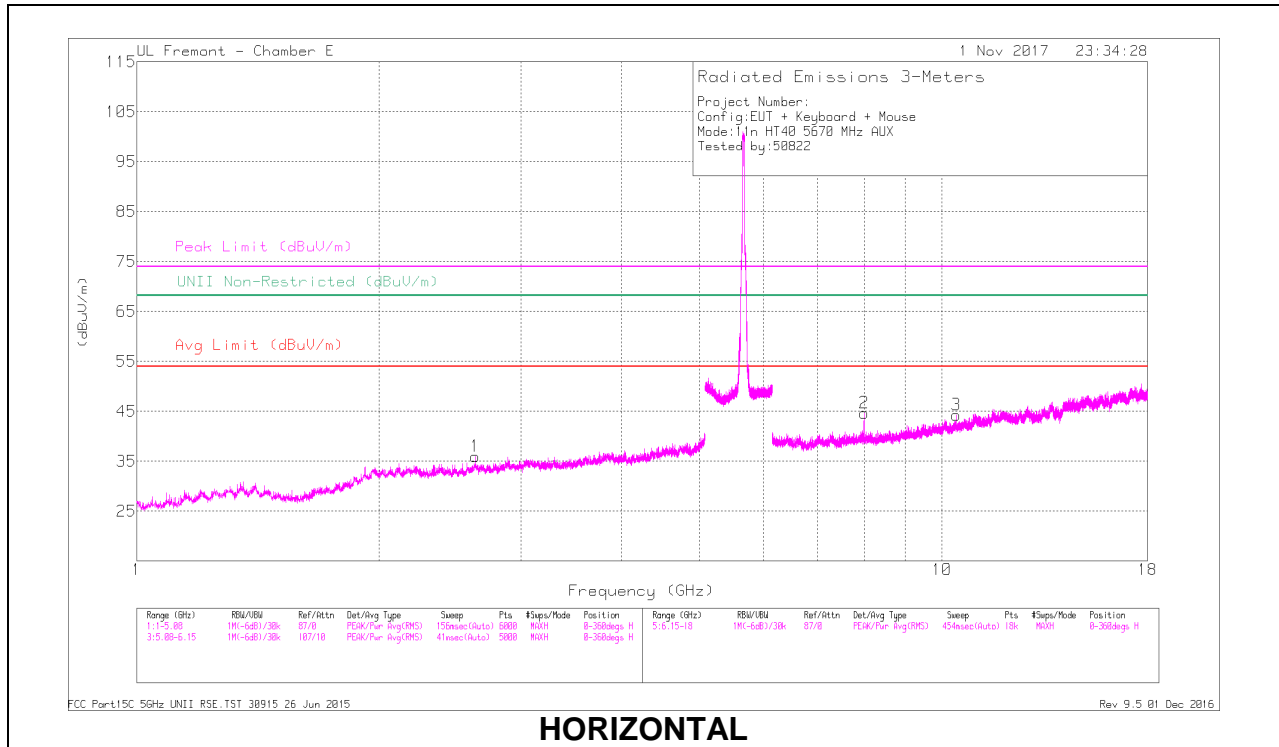
### VERTICAL

**RADIATED EMISSIONS**

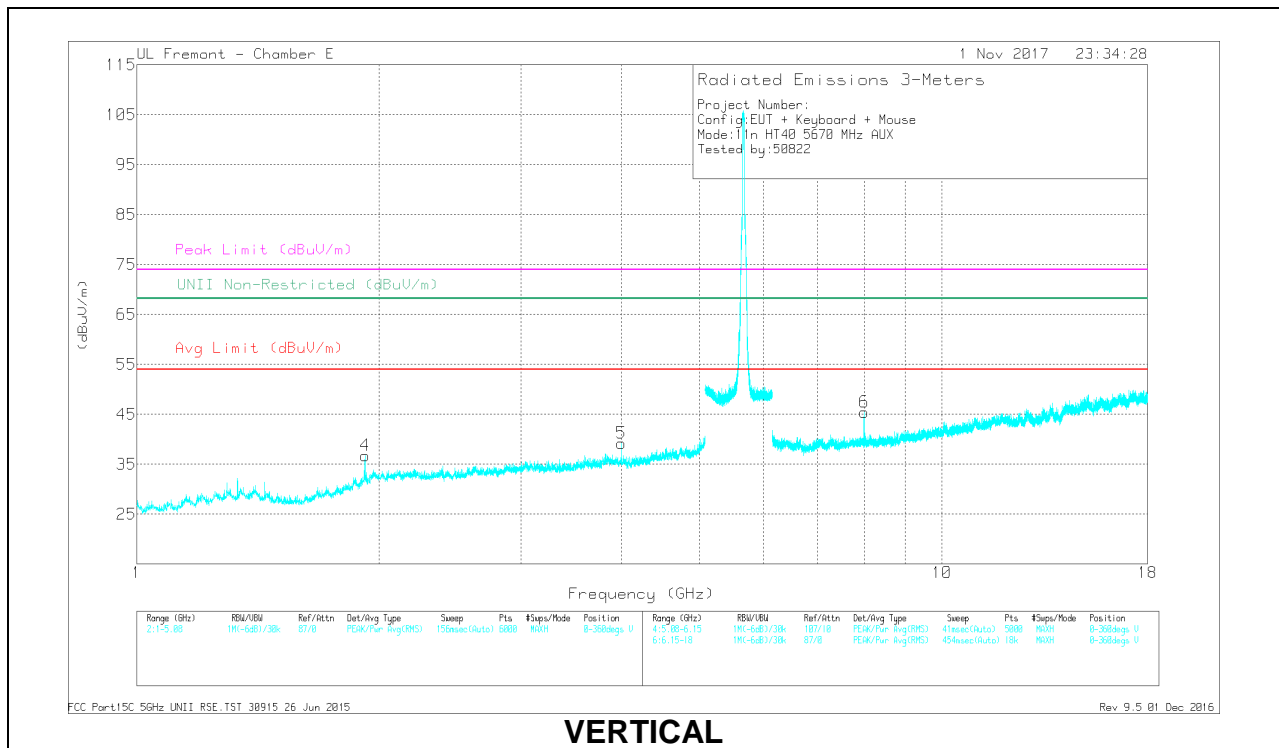
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.333	43.72	PK-U	28.9	-35	0	37.62	-	-	74	-36.38	-	-	180	101	H
	* 1.333	31.81	ADR	28.9	-35	.09	25.8	54	-28.2	-	-	-	-	180	101	H
5	* 4	41.3	PK-U	33.7	-29.5	0	45.5	-	-	74	-28.5	-	-	357	133	V
	* 4	29.55	ADR	33.7	-29.5	.09	33.84	54	-20.16	-	-	-	-	357	133	V
4	1.92	43.33	PK-U	31.1	-32.8	0	41.63	-	-	-	-	68.2	-26.57	335	101	V
	1.92	34.48	ADR	31.1	-32.8	.09	32.87	-	-	-	-	-	-	335	101	V
2	5.314	26.76	ADR	35	-18.9	.09	42.95	-	-	-	-	-	-	311	101	H
	5.316	38.6	PK-U	35	-18.9	0	54.7	-	-	-	-	68.2	-13.5	311	101	H
3	8	38.55	PK-U	36.5	-26.4	0	48.65	-	-	-	-	68.2	-19.55	143	186	H
	8	30.97	ADR	36.5	-26.4	.09	41.16	-	-	-	-	-	-	143	186	H
6	8	41.82	PK-U	36.5	-26.4	0	51.92	-	-	-	-	68.2	-16.28	114	211	V
	8	37.06	ADR	36.5	-26.4	.09	47.25	-	-	-	-	-	-	114	211	V

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

### HIGH CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

**RADIATED EMISSIONS**

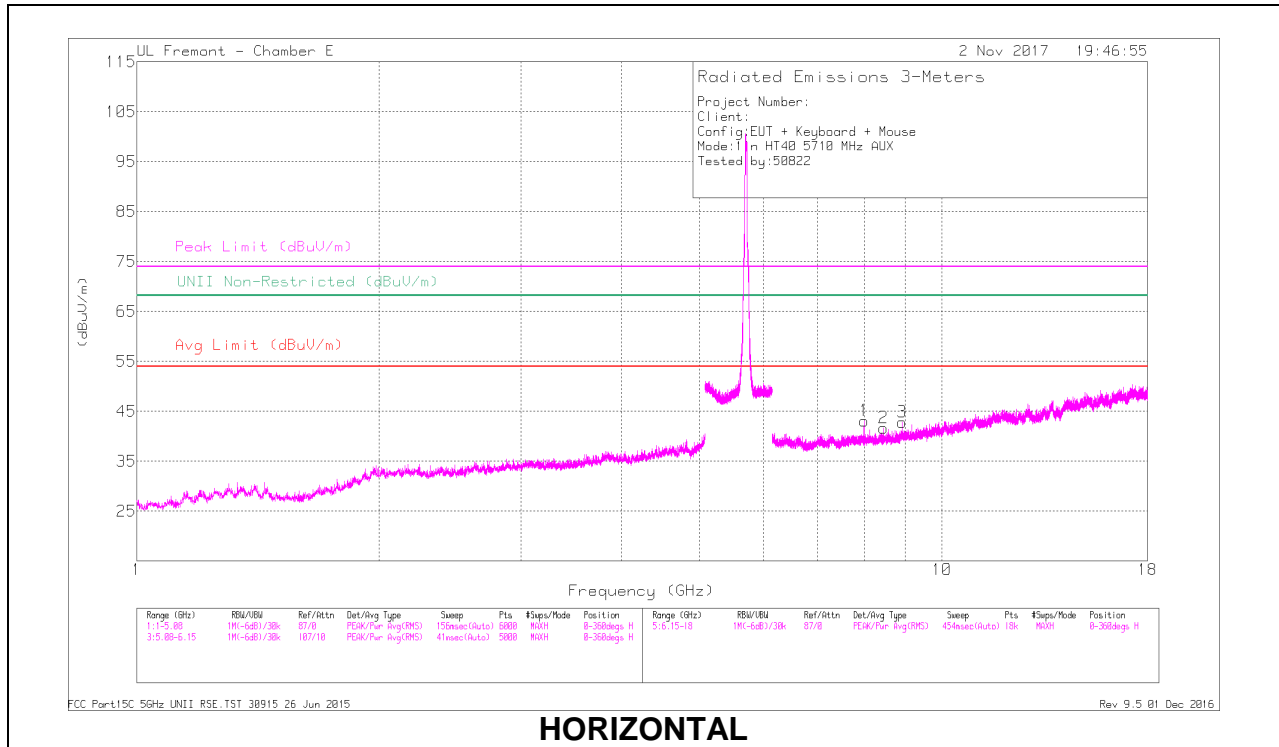
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 4	41.21	PK-U	33.7	-29.5	0	45.41	-	-	74	-28.59	-	-	355	101	V
	* 4	31.5	ADR	33.7	-29.5	.09	35.79	54	-18.21	-	-	-	-	355	101	V
4	1.92	44.11	PK-U	31.1	-32.8	0	42.41	-	-	-	-	68.2	-25.79	356	101	V
	1.92	36.71	ADR	31.1	-32.8	.09	35.1	-	-	-	-	-	-	356	101	V
1	2.631	39.81	PK-U	32.2	-30.4	0	41.61	-	-	-	-	68.2	-26.59	183	101	H
	2.633	27.8	ADR	32.3	-30.5	.09	29.69	-	-	-	-	-	-	183	101	H
2	8	39.72	PK-U	36.5	-26.4	0	49.82	-	-	-	-	68.2	-18.38	240	207	H
	8	33.37	ADR	36.5	-26.4	.09	43.56	-	-	-	-	-	-	240	207	H
6	8	40.08	PK-U	36.5	-26.4	0	50.18	-	-	-	-	68.2	-18.02	210	204	V
	8	33.38	ADR	36.5	-26.4	.09	43.57	-	-	-	-	-	-	210	204	V
3	10.408	34.21	PK-U	37.7	-23.1	0	48.81	-	-	-	-	68.2	-19.39	338	282	H
	10.409	22.84	ADR	37.7	-23.1	.09	37.53	-	-	-	-	-	-	338	282	H

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

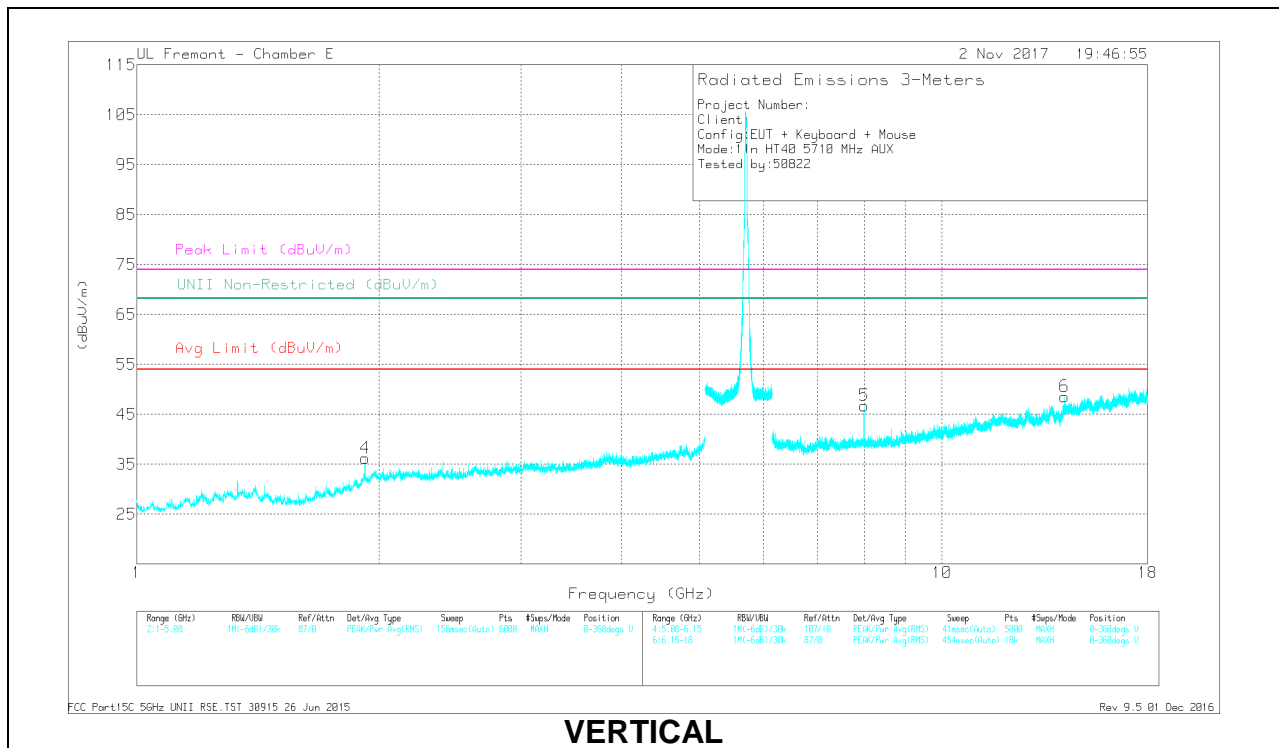
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### CHANNEL 142 RESULTS



### HORIZONTAL



### VERTICAL

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 8.455	36.25	PK-U	36.5	-26.4	0	46.35	-	-	74	-27.65	-	-	265	101	H
	* 8.455	25.03	ADR	36.5	-26.4	.09	35.22	54	-18.78	-	-	-	-	265	101	H
4	1.92	43.85	PK-U	31.1	-32.8	0	42.15	-	-	-	-	68.2	-26.05	5	100	V
	1.92	35.87	ADR	31.1	-32.8	.09	34.26	-	-	-	-	-	-	5	100	V
1	8	39.47	PK-U	36.5	-26.4	0	49.57	-	-	-	-	68.2	-18.63	241	287	H
	8	33.13	ADR	36.5	-26.4	.09	43.32	-	-	-	-	-	-	241	287	H
5	8	41.79	PK-U	36.5	-26.4	0	51.89	-	-	-	-	68.2	-16.31	113	212	V
	8	37.18	ADR	36.5	-26.4	.09	47.37	-	-	-	-	-	-	113	212	V
3	8.928	35.73	PK-U	36.9	-25.4	0	47.23	-	-	-	-	68.2	-20.97	22	101	H
	8.929	24.58	ADR	36.9	-25.4	.09	36.17	-	-	-	-	-	-	22	101	H
6	14.202	36.31	PK-U	40.8	-24.2	0	52.91	-	-	-	-	68.2	-15.29	18	101	V
	14.202	24.7	ADR	40.8	-24.2	.09	41.39	-	-	-	-	-	-	18	101	V

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

PK-U - U-NII: Maximum Peak

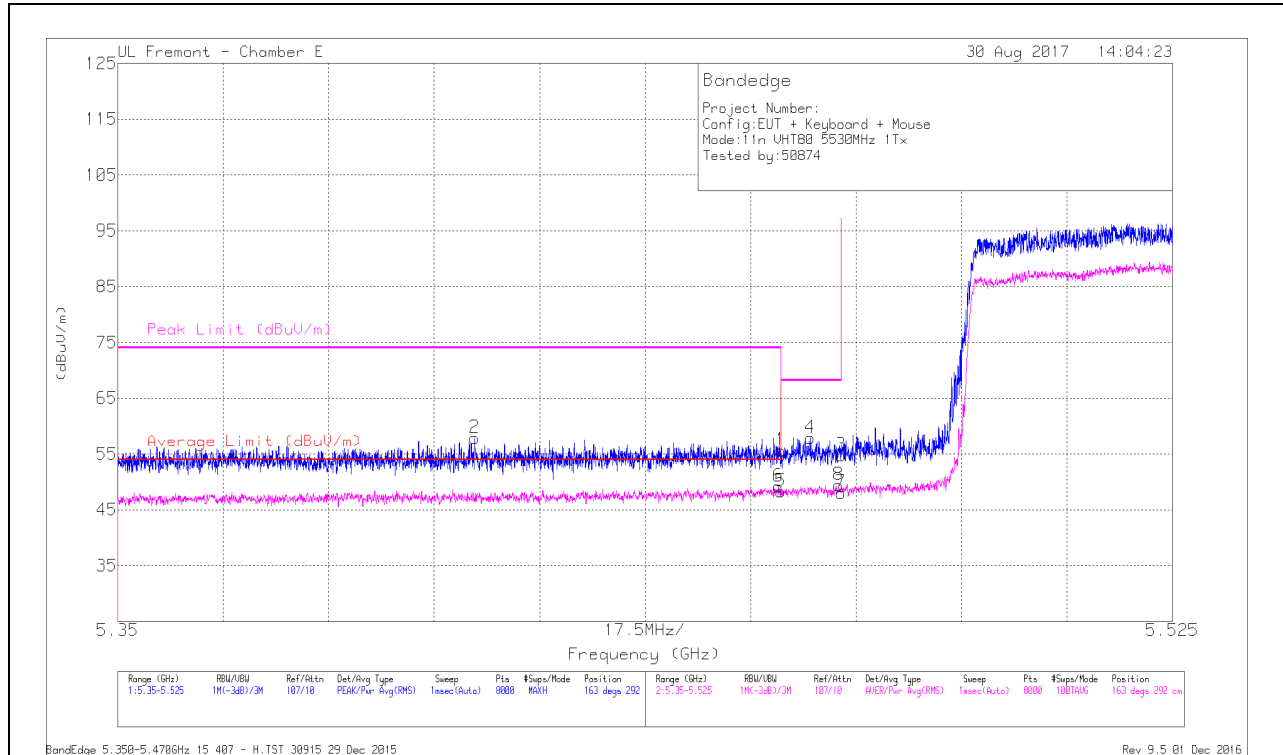
ADR - U-NII AD primary method, RMS average

**5.1.9. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.6 GHz BAND**

**1TX Antenna WF4**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



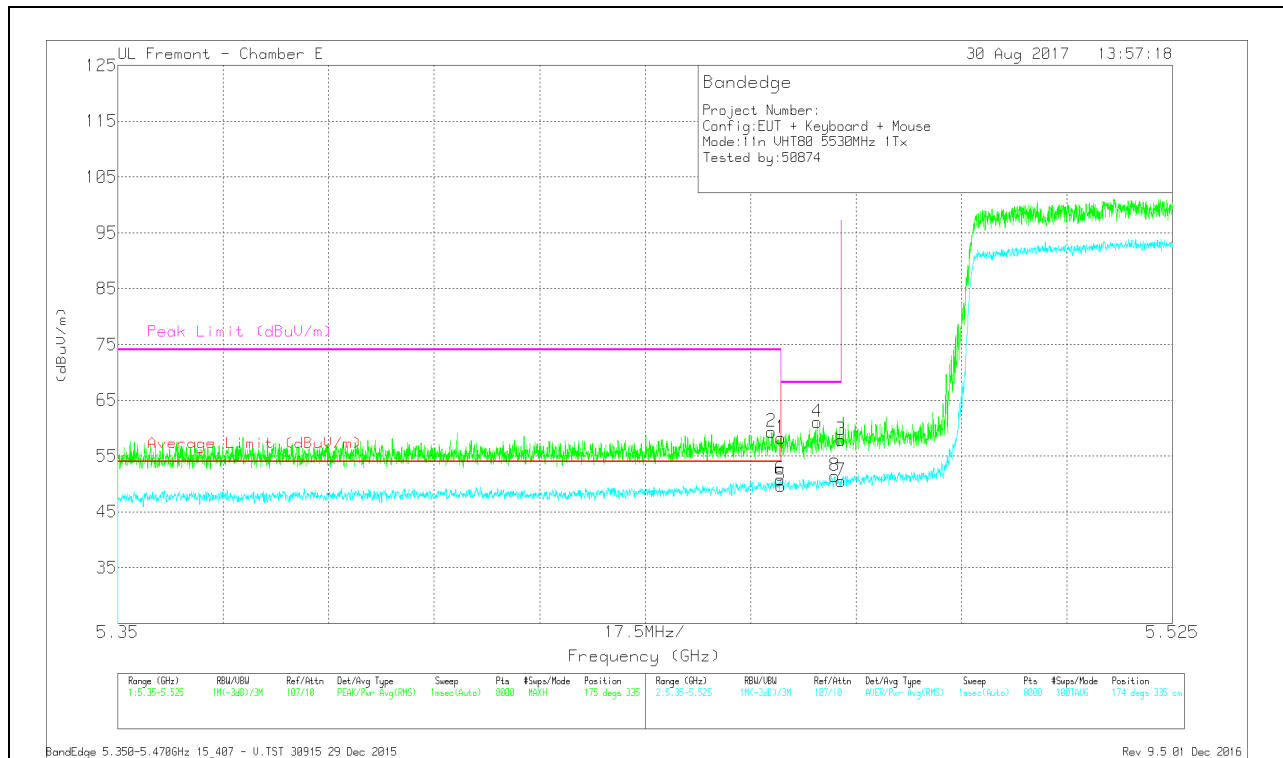
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	40.58	Pk	35.1	-20	0	55.68	-	-	74	-18.32	163	292	H
2	* 5.409	43.02	Pk	35	-20.1	0	57.92	-	-	74	-16.08	163	292	H
5	* 5.46	32.98	RMS	35.1	-20	.2	48.28	54	-5.72	-	-	163	292	H
6	* 5.46	33.84	RMS	35.1	-20	.2	49.14	54	-4.86	-	-	163	292	H
4	5.465	42.72	Pk	35.1	-19.9	0	57.92	-	-	68.2	-10.28	163	292	H
3	5.47	39.54	Pk	35.1	-19.9	0	54.74	-	-	68.2	-13.46	163	292	H
7	5.47	32.64	RMS	35.1	-19.9	.2	48.04	-	-	-	-	163	292	H
8	5.47	34.05	RMS	35.1	-19.9	.2	49.45	-	-	-	-	163	292	H

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

Pk - Peak detector

RMS - RMS detection

**VERTICAL RESULT**



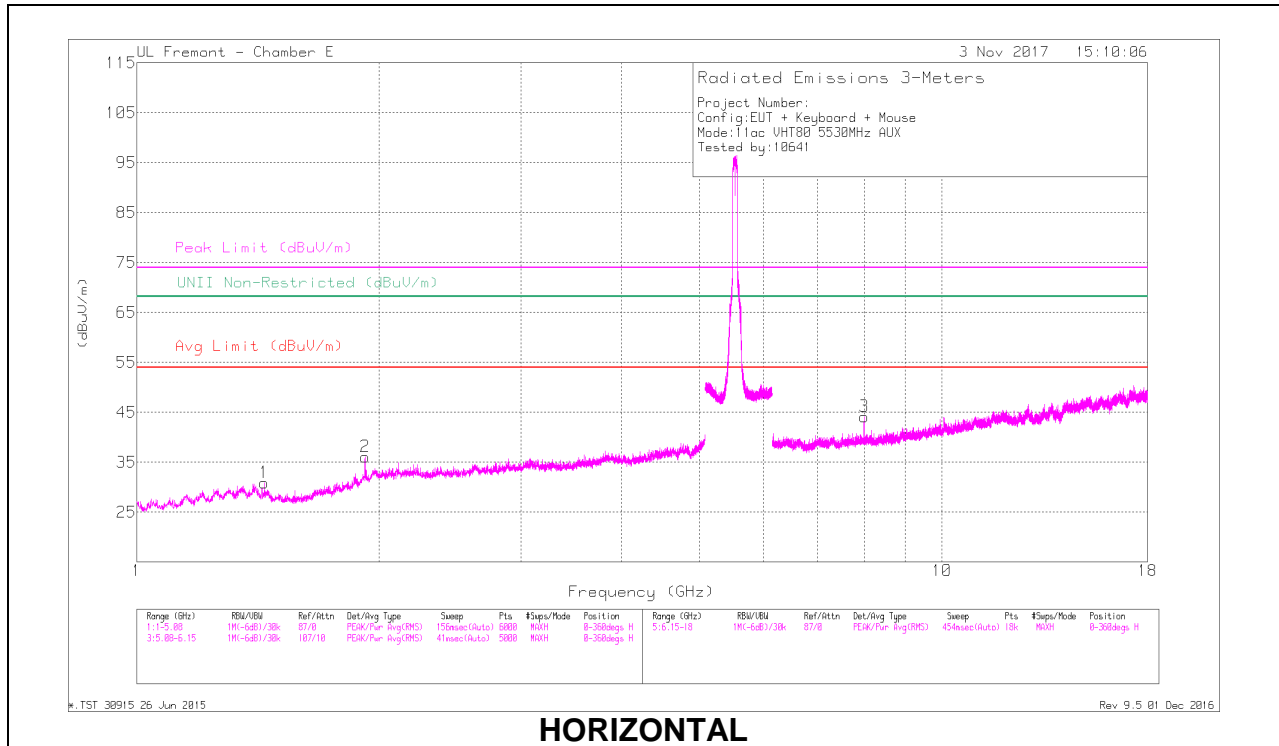
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	43.1	Pk	35.1	-20	0	58.2	-	-	74	-15.8	175	335	V
2	* 5.458	44.31	Pk	35.1	-20	0	59.41	-	-	74	-14.59	175	335	V
5	* 5.46	34.36	RMS	35.1	-20	.2	49.66	54	-4.34	-	-	174	335	V
6	* 5.46	35.5	RMS	35.1	-20	.2	50.8	54	-3.2	-	-	174	335	V
4	5.466	45.91	Pk	35.1	-19.9	0	61.11	-	-	68.2	-7.09	175	335	V
8	5.469	35.99	RMS	35.1	-19.9	.2	51.39	-	-	-	-	174	335	V
3	5.47	42.65	Pk	35.1	-19.9	0	57.85	-	-	68.2	-10.35	175	335	V
7	5.47	35.18	RMS	35.1	-19.9	.2	50.58	-	-	-	-	174	335	V

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

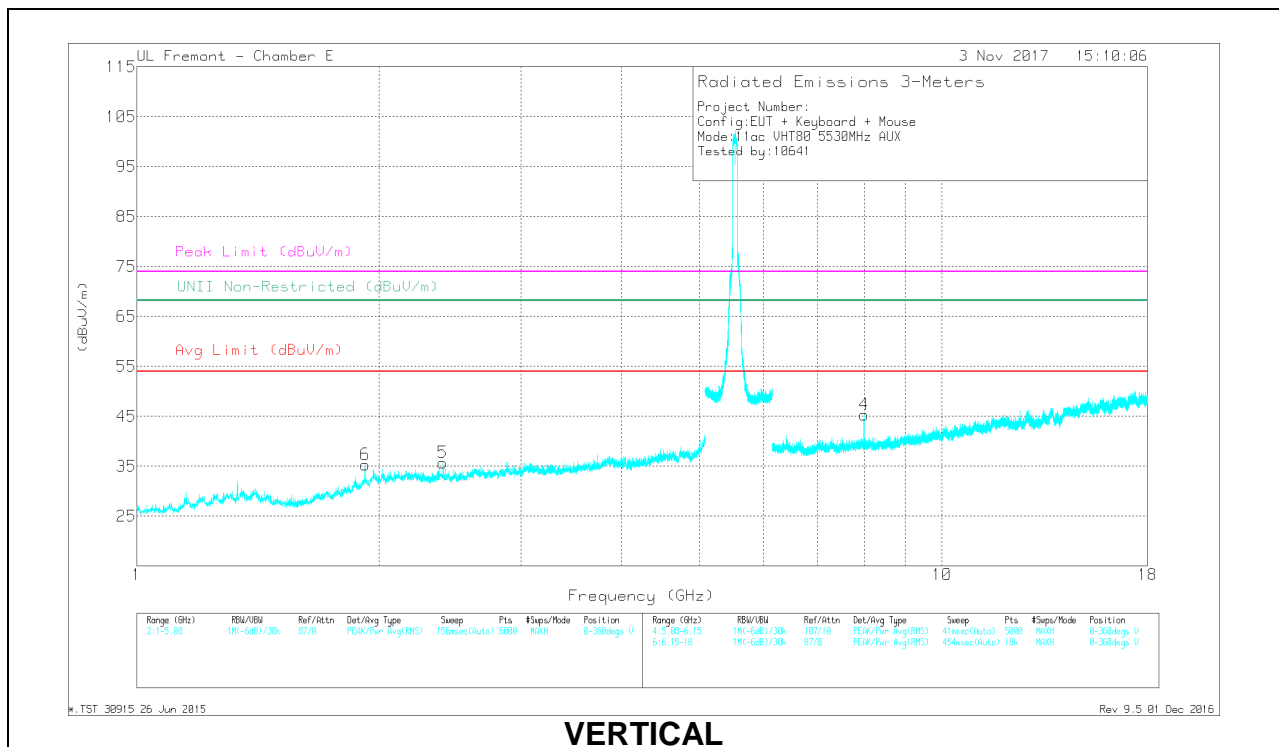


# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

**RADIATED EMISSIONS**

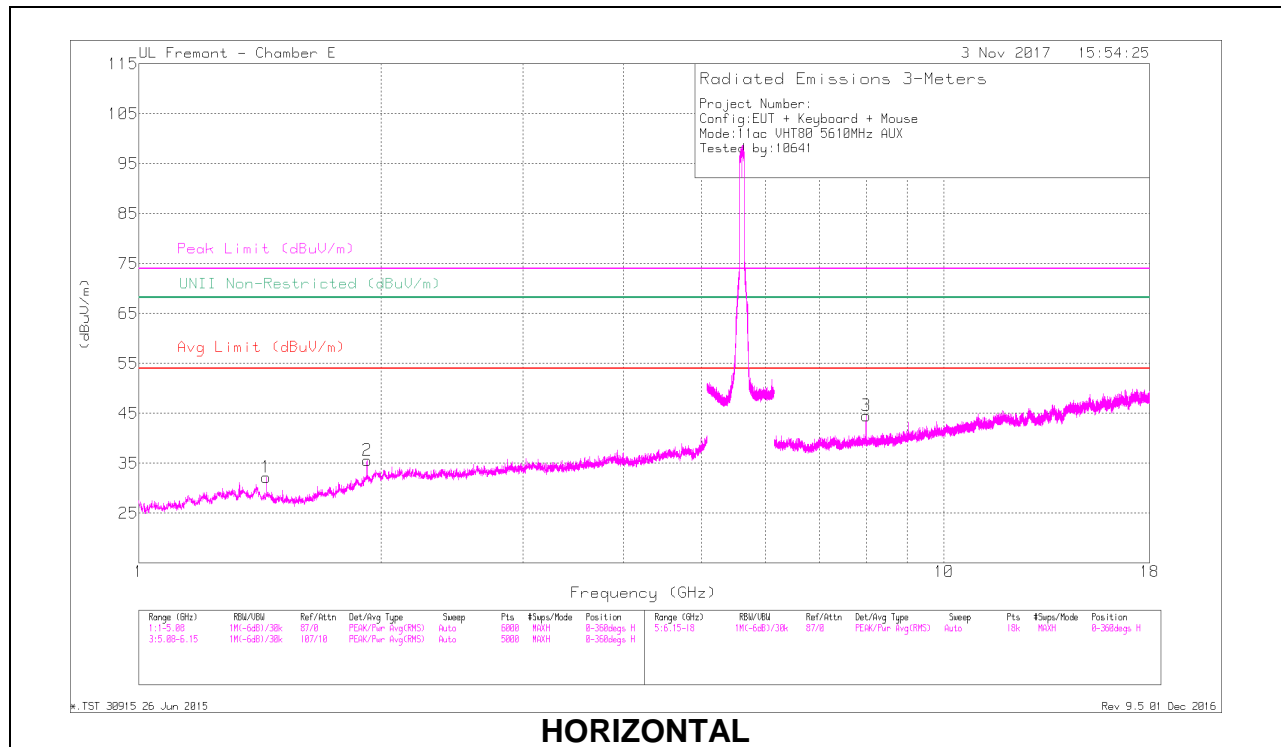
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.44	43.52	PK-U	28.3	-34.3	0	37.52	-	-	74	-36.48	-	-	224	103	H
* 1.44	34.05	ADR	28.3	-34.3	.2	28.25	54	-25.75	-	-	-	-	224	103	H
1.92	43.45	PK-U	31.1	-32.8	0	41.75	-	-	-	-	68.2	-26.45	100	115	H
1.92	44.16	PK-U	31.1	-32.8	0	42.46	-	-	-	-	68.2	-25.74	6	101	V
2.4	41.59	PK-U	32	-31.9	0	41.69	-	-	-	-	68.2	-26.51	304	101	V
8	39.41	PK-U	36.5	-26.4	0	49.51	-	-	-	-	68.2	-18.69	236	205	H
8	40.35	PK-U	36.5	-26.4	0	50.45	-	-	-	-	68.2	-17.75	209	200	V

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

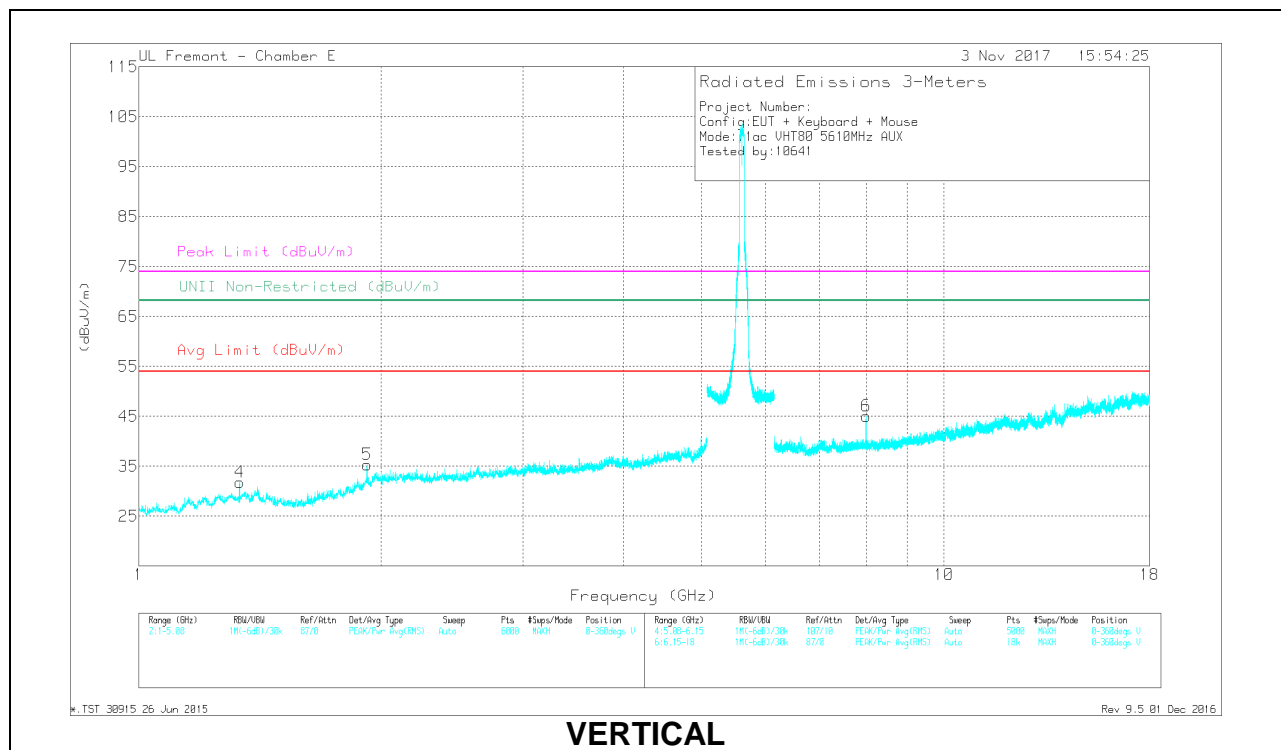
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

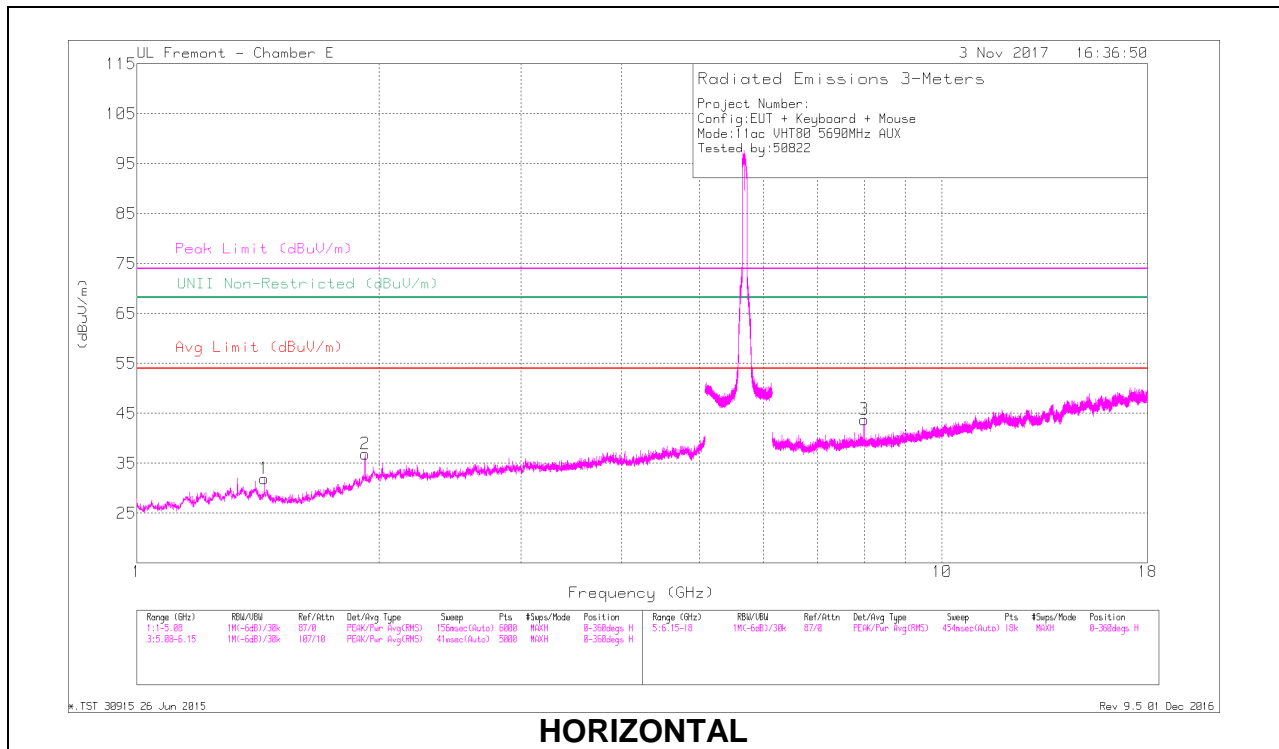
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.44	44.35	PK-U	28.3	-34.3	0	38.35	-	-	74	-35.65	-	-	237	132	H
* 1.44	34.66	ADR	28.3	-34.3	.2	28.86	54	-25.14	-	-	-	-	237	132	H
* 1.333	44.99	PK-U	28.9	-35	0	38.89	-	-	74	-35.11	-	-	172	249	V
* 1.333	32.25	ADR	28.9	-35	.2	26.35	54	-27.65	-	-	-	-	172	249	V
1.92	43.74	PK-U	31.1	-32.8	0	42.04	-	-	-	-	68.2	-26.16	97	132	H
1.92	35.94	ADR	31.1	-32.8	.2	34.44	-	-	-	-	-	-	97	132	H
1.92	43.74	PK-U	31.1	-32.8	0	42.04	-	-	-	-	68.2	-26.16	3	126	V
1.92	34.47	ADR	31.1	-32.8	.2	32.97	-	-	-	-	-	-	3	126	V
8	40.49	PK-U	36.5	-26.4	0	50.59	-	-	-	-	68.2	-17.61	243	140	H
8	38.95	PK-U	36.5	-26.4	0	49.05	-	-	-	-	68.2	-19.15	333	132	V

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

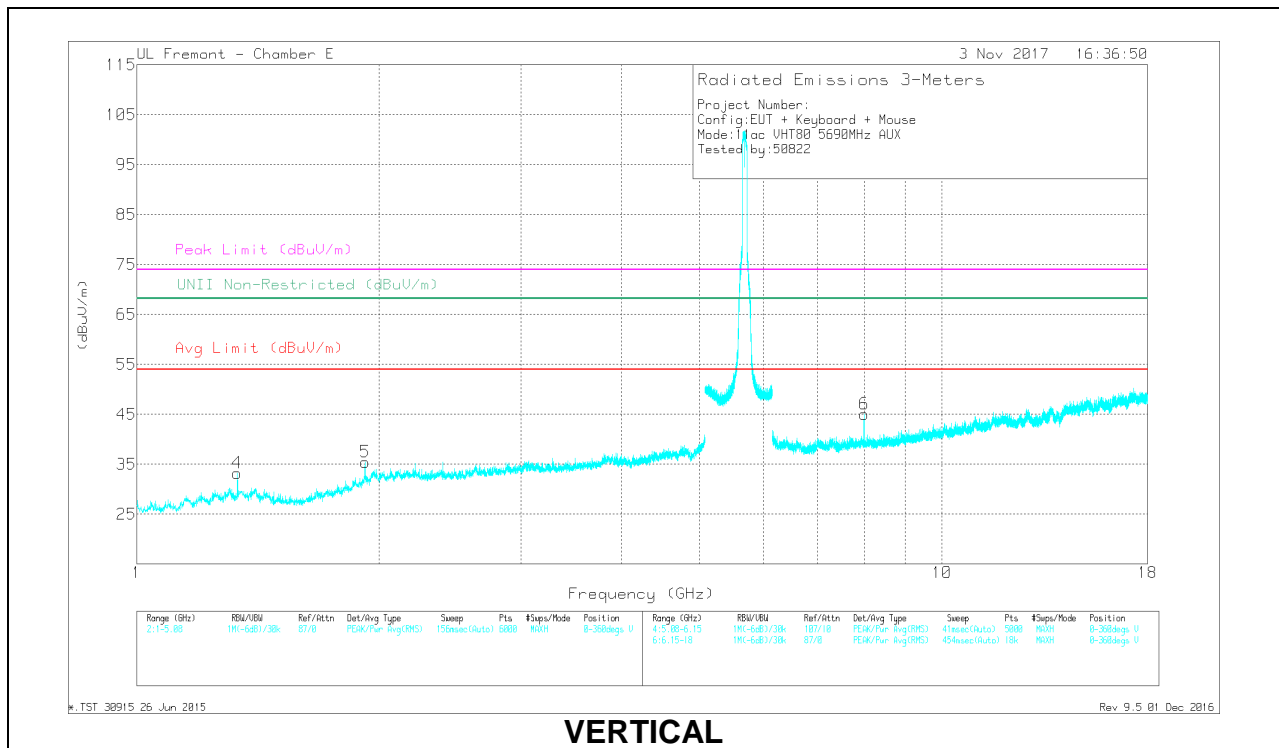
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### CHANNEL 138 RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fitr/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	* 1.44	43.52	PK-U	28.3	-34.3	0	37.52	-	-	74	-36.48	-	-	124	101	H
	* 1.44	34.34	ADR	28.3	-34.3	.2	28.54	54	-25.46	-	-	-	-	124	101	H
4	* 1.333	45.94	PK-U	28.9	-35	0	39.84	-	-	74	-34.16	-	-	159	101	V
	* 1.333	32.55	ADR	28.9	-35	.2	26.65	54	-27.35	-	-	-	-	159	101	V
2	1.92	43.72	PK-U	31.1	-32.8	0	42.02	-	-	-	-	68.2	-26.18	89	101	H
	1.92	36.41	ADR	31.1	-32.8	.2	34.91	-	-	-	-	-	-	89	101	H
5	1.92	43.41	PK-U	31.1	-32.8	0	41.71	-	-	-	-	68.2	-26.49	355	101	V
	1.92	34.26	ADR	31.1	-32.8	.2	32.76	-	-	-	-	-	-	355	101	V
3	8	39.4	PK-U	36.5	-26.4	0	49.5	-	-	-	-	68.2	-18.7	236	307	H
	8	32.34	ADR	36.5	-26.4	.2	42.64	-	-	-	-	-	-	236	307	H
6	8	38.52	PK-U	36.5	-26.4	0	48.62	-	-	-	-	68.2	-19.58	332	157	V
	8	31.12	ADR	36.5	-26.4	.2	41.42	-	-	-	-	-	-	332	157	V

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

PK-U - U-NII: Maximum Peak

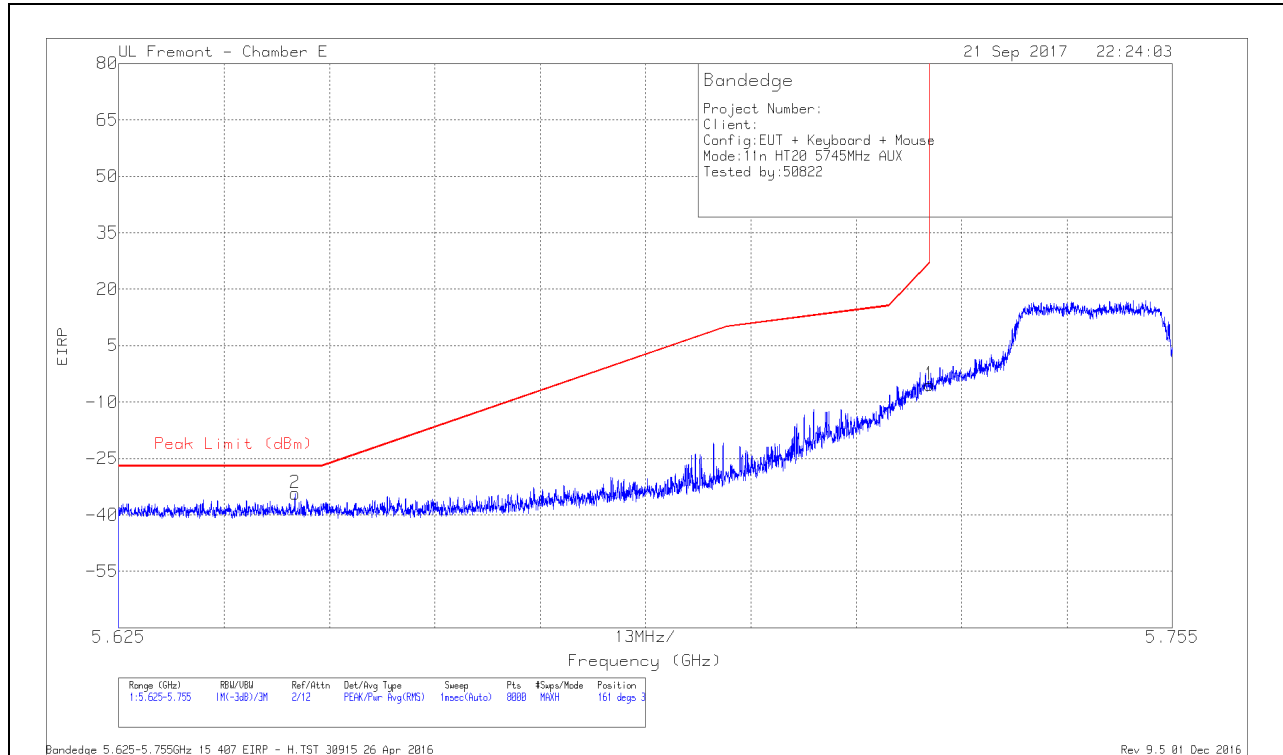
ADR - U-NII AD primary method, RMS average

**5.1.10. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.8 GHz BAND**

**1TX Antenna WF4**

**BANDEDGE (LOW CHANNEL)**

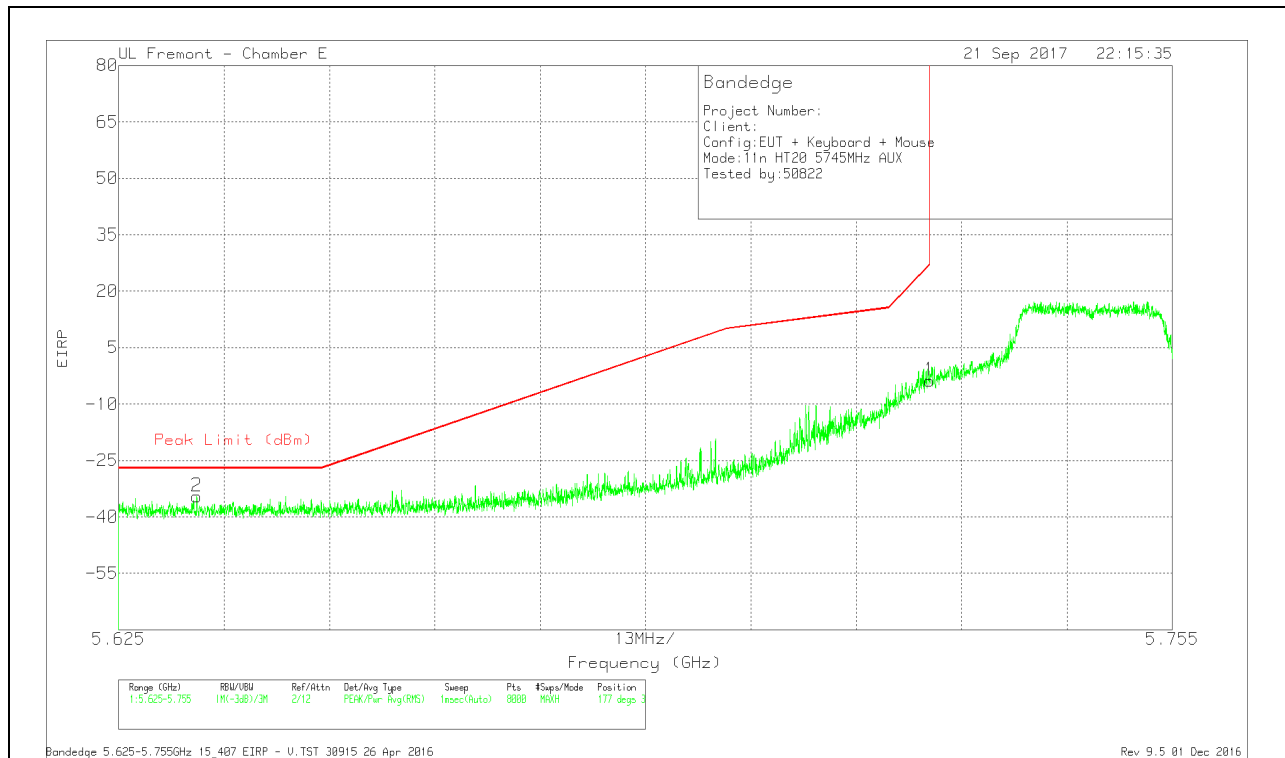
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.647	-61.96	Pk	35	-19.1	11.8	0	-34.26	-27	-7.26	161	351	H
1	5.725	-33.18	Pk	35.1	-19.1	11.8	0	-5.38	27	-32.38	161	351	H

Pk - Peak detector

**VERTICAL RESULT**



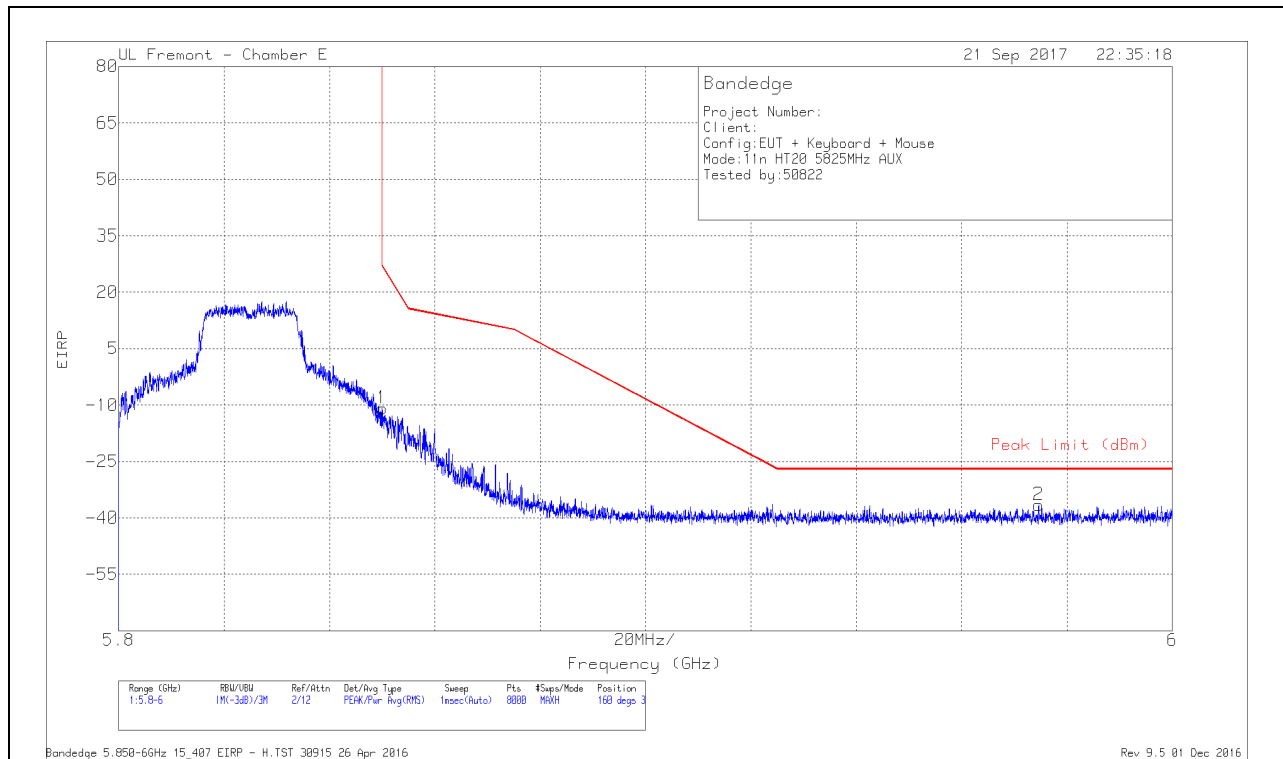
Marker	Frequen cy (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversi on Factor (dB)	DC Corr (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.635	-62.2	Pk	35	-19.1	11.8	0	-34.5	-27	-7.5	177	383	V
1	5.725	-31.52	Pk	35.1	-19.1	11.8	0	-3.72	27	-30.72	177	383	V

Pk - Peak detector



**BANDEDGE (HIGH CHANNEL)**

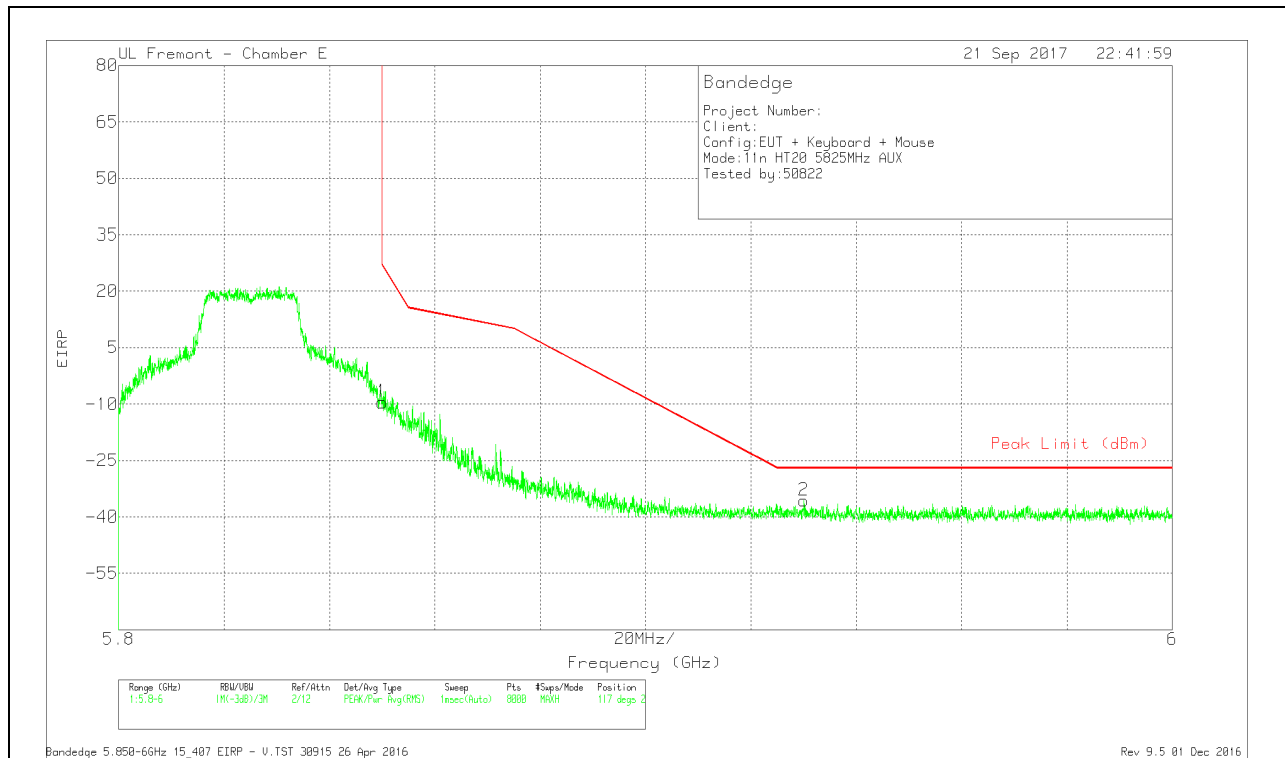
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-38.79	Pk	35.2	-19.1	11.8	0	-10.89	26.99	-37.88	160	337	H
2	5.975	-65.08	Pk	35.3	-18.6	11.8	0	-36.58	-27	-9.58	160	337	H

Pk - Peak detector

**VERTICAL RESULT**

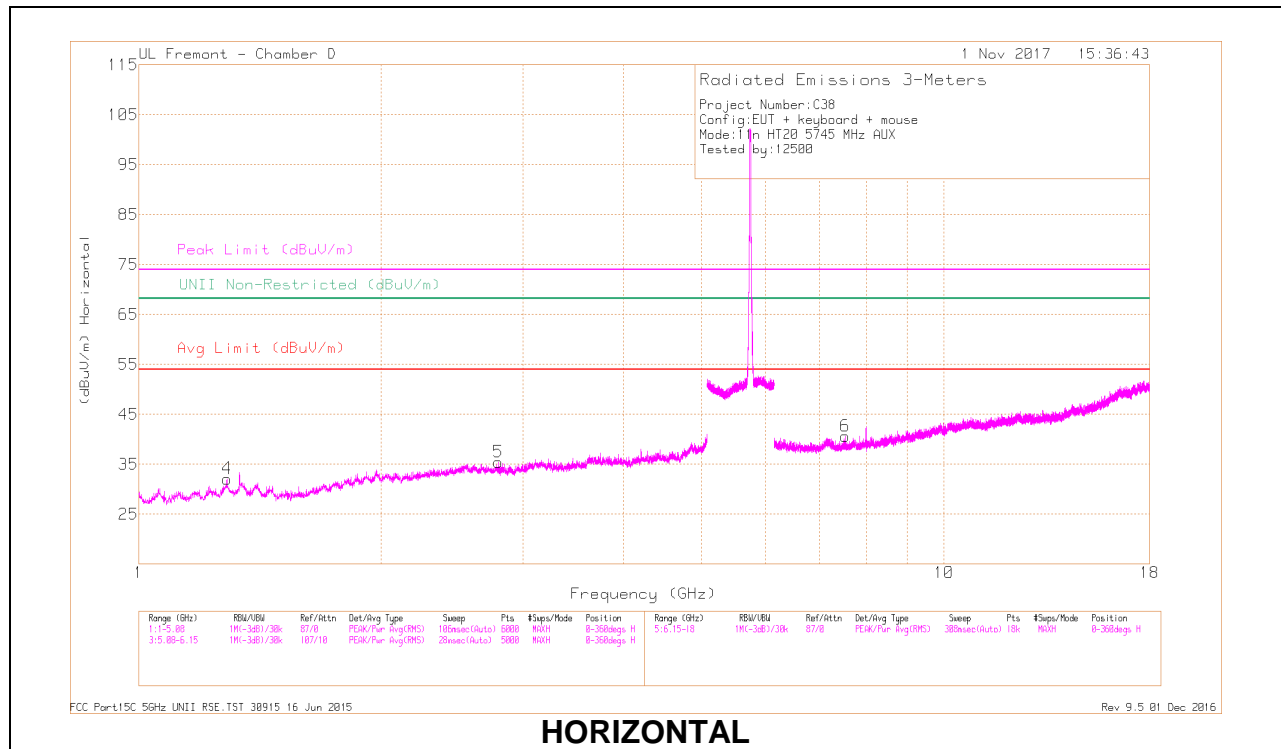


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-37.4	Pk	35.2	-19.1	11.8	0	-9.5	26.99	-36.49	117	219	V
2	5.93	-63.79	Pk	35.2	-18.9	11.8	0	-35.69	-27	-8.69	117	219	V

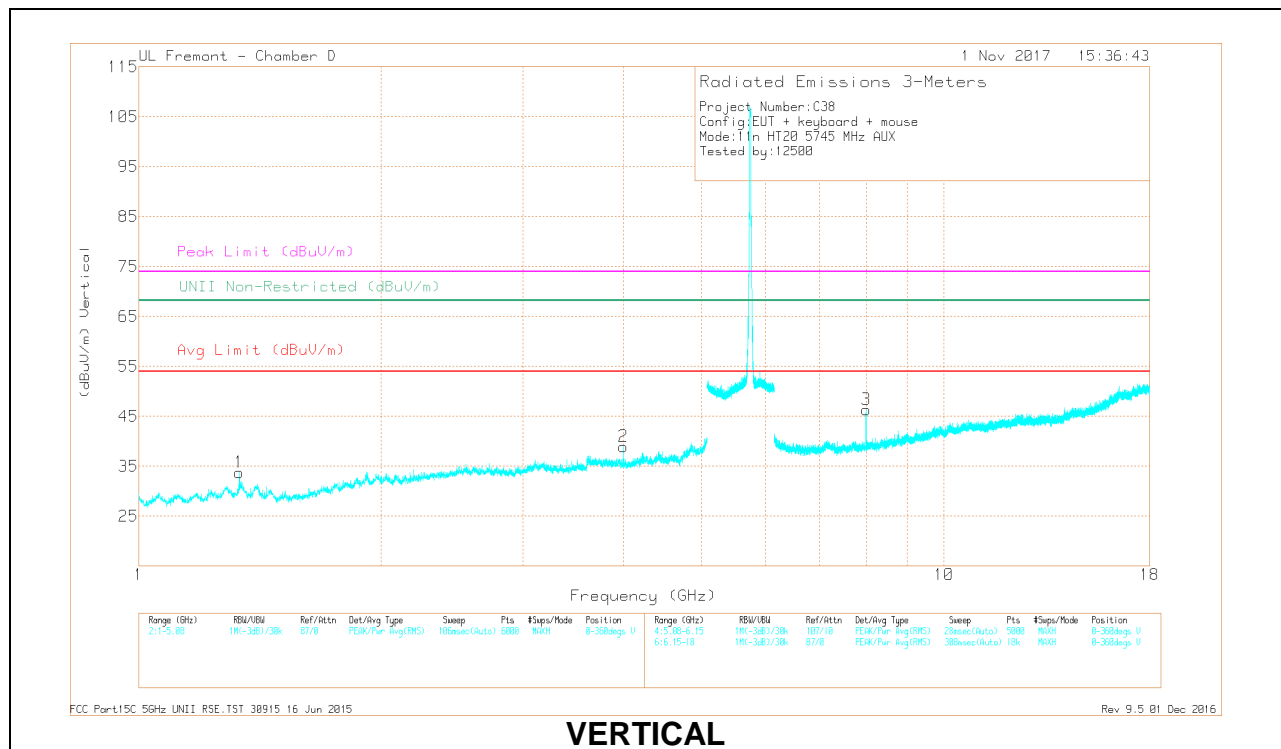
Pk - Peak detector

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

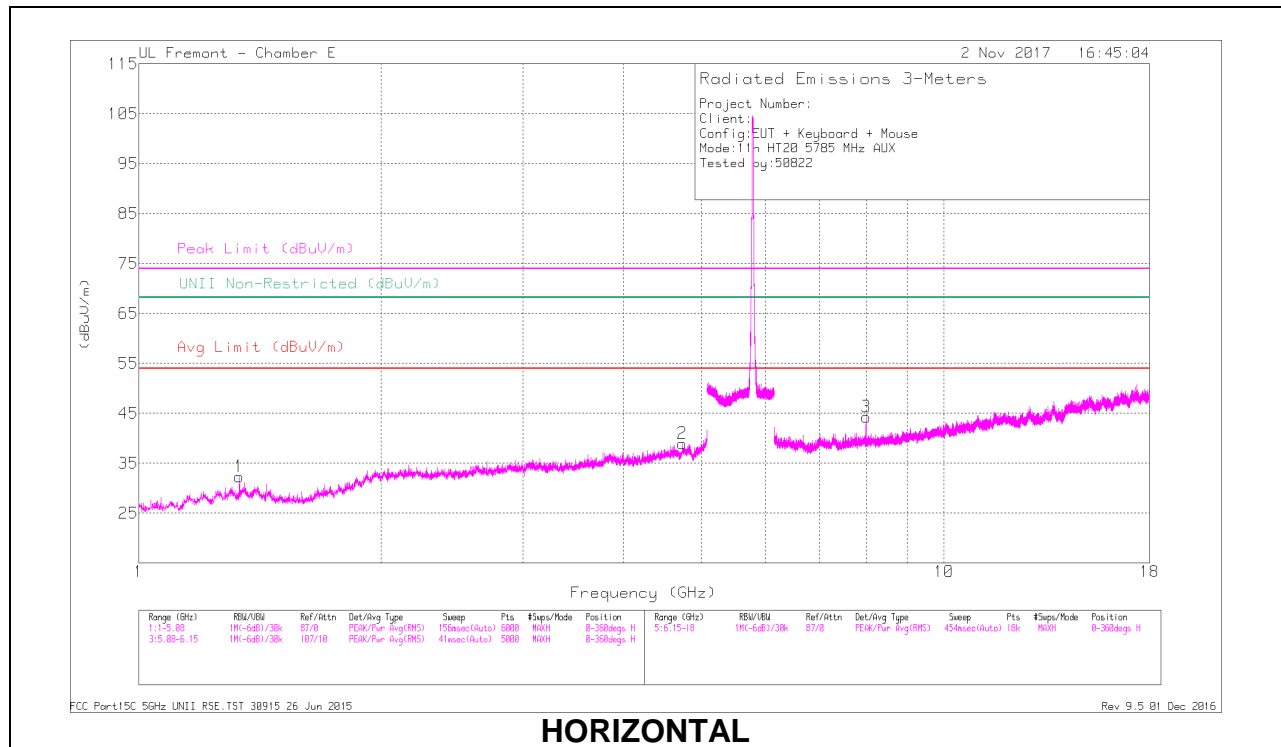
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/C bl/Filtr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.286	41.12	PK-U	29.4	-31.8	0	38.72	-	-	74	-35.28	-	-	266	199	H
* 1.285	29.1	ADR	29.4	-31.8	.23	26.47	54	-27.53	-	-	-	-	266	199	H
* 2.794	39.22	PK-U	32.4	-29.5	0	42.12	-	-	74	-31.88	-	-	338	184	H
* 2.796	27.19	ADR	32.4	-29.4	.23	29.96	54	-24.04	-	-	-	-	338	184	H
* 1.333	45.18	PK-U	29.5	-31.3	0	43.38	-	-	74	-30.62	-	-	204	146	V
* 1.333	31	ADR	29.5	-31.3	.23	28.97	54	-25.03	-	-	-	-	204	146	V
* 4	41.19	PK-U	33.4	-28.2	0	46.39	-	-	74	-27.61	-	-	36	253	V
* 4	30.25	ADR	33.4	-28.2	.23	35.22	54	-18.78	-	-	-	-	36	253	V
* 7.543	35.53	PK-U	35.5	-24.7	0	46.33	-	-	74	-27.67	-	-	24	239	H
* 7.542	23.84	ADR	35.5	-24.7	.23	34.41	54	-19.59	-	-	-	-	24	239	H
8	39.43	PK-U	35.6	-24	0	51.03	-	-	-	-	68.2	-17.17	177	203	V

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

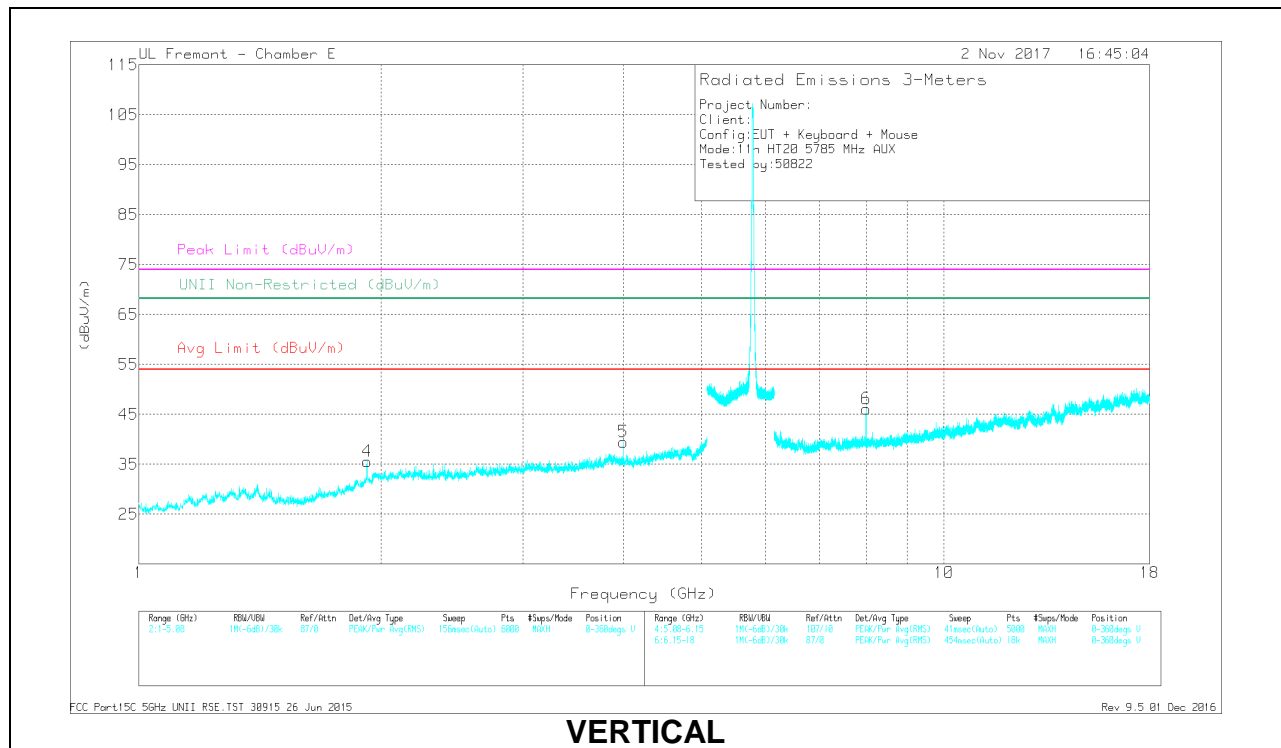
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### MID CHANNEL RESULTS



### HORIZONTAL



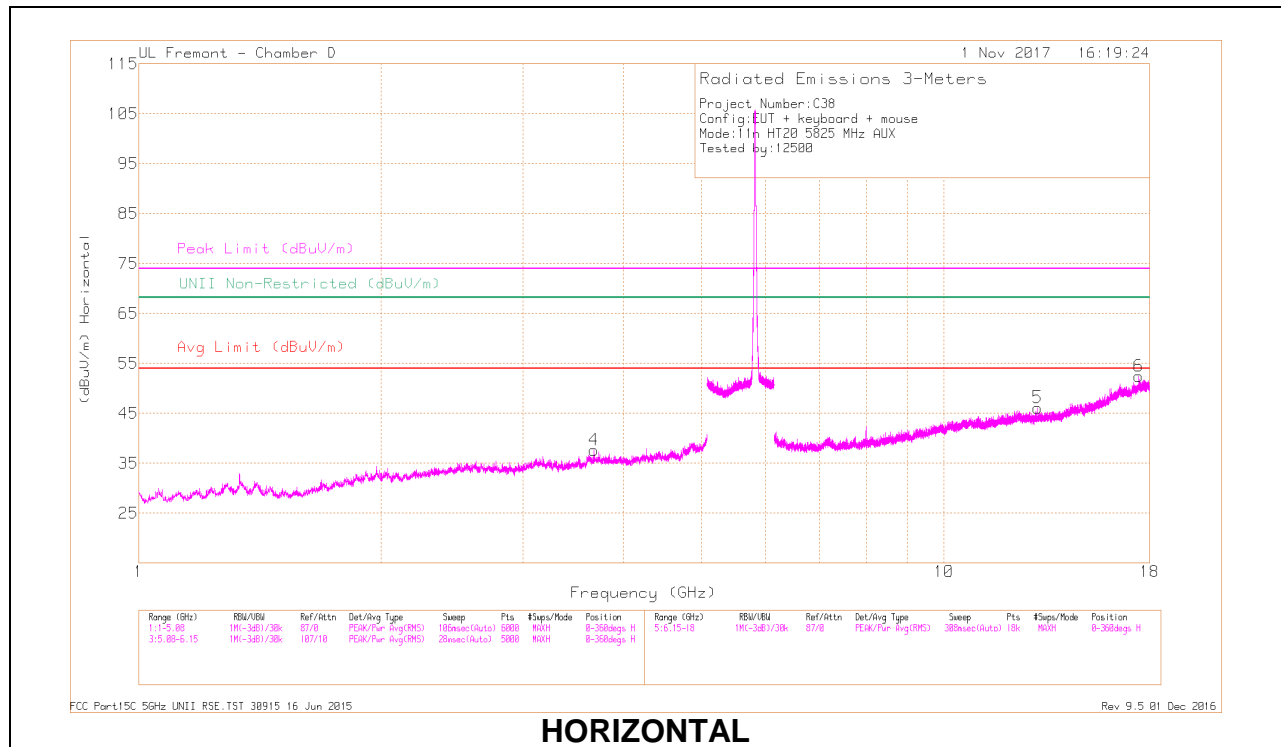
### VERTICAL

**RADIATED EMISSIONS**

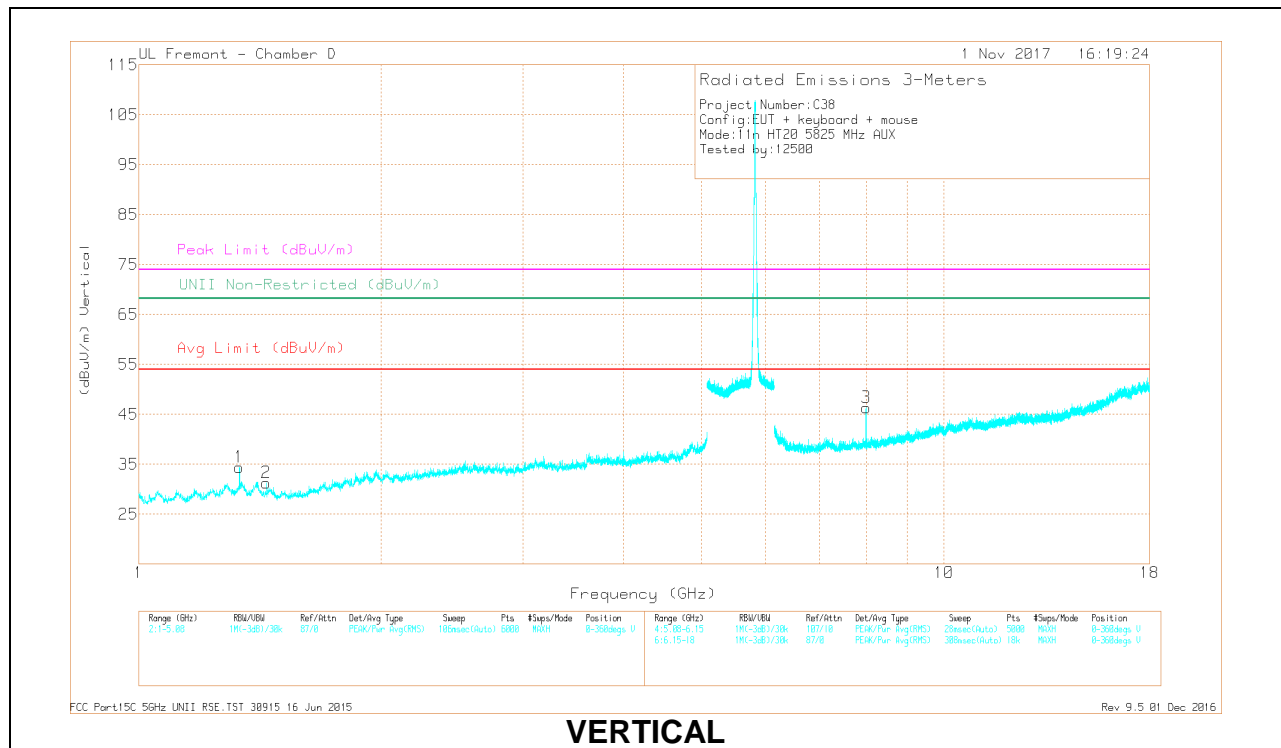
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.333	43.67	PK-U	28.9	-35	0	37.57	-	-	74	-36.43	-	-	207	101	H
	* 1.333	31.67	ADR	28.9	-35	.23	25.8	54	-28.2	-	-	-	-	207	101	H
2	* 4.732	38.92	PK-U	34.4	-28.5	0	44.82	-	-	74	-29.18	-	-	162	329	H
	* 4.732	27.17	ADR	34.4	-28.5	.23	33.3	54	-20.7	-	-	-	-	162	329	H
5	* 4	41.66	PK-U	33.7	-29.5	0	45.86	-	-	74	-28.14	-	-	352	135	V
	* 4	33.37	ADR	33.7	-29.5	.23	37.8	54	-16.2	-	-	-	-	352	135	V
4	1.92	43.58	PK-U	31.1	-32.8	0	41.88	-	-	-	-	68.2	-26.32	8	101	V
	1.92	35.46	ADR	31.1	-32.8	.23	33.99	-	-	-	-	-	-	8	101	V
3	8	38.64	PK-U	36.5	-26.4	0	48.74	-	-	-	-	68.2	-19.46	263	102	H
	8	30.86	ADR	36.5	-26.4	.23	41.19	-	-	-	-	-	-	263	102	H
6	8	40.77	PK-U	36.5	-26.4	0	50.87	-	-	-	-	68.2	-17.33	100	177	V
	8	35.68	ADR	36.5	-26.4	.23	46.01	-	-	-	-	-	-	100	177	V

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

### HIGH CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 3.675	39.04	PK-U	33.1	-29.1	0	43.04	-	-	74	-30.96	-	-	176	335	H
	* 3.677	27.04	ADR	33.1	-29.1	.23	30.81	54	-23.19	-	-	-	-	176	335	H
1	* 1.334	42.16	PK-U	29.5	-31.3	0	40.36	-	-	74	-33.64	-	-	195	175	V
	* 1.333	29.98	ADR	29.5	-31.3	.23	27.95	54	-26.05	-	-	-	-	195	175	V
2	* 1.44	40.08	PK-U	28.8	-31.5	0	37.38	-	-	74	-36.62	-	-	195	215	V
	* 1.44	29.35	ADR	28.8	-31.5	.23	26.42	54	-27.58	-	-	-	-	195	215	V
3	8	40.22	PK-U	35.6	-24	0	51.82	-	-	-	-	68.2	-16.38	177	212	V
5	13.07	34.9	PK-U	38.9	-21.9	0	51.9	-	-	-	-	68.2	-16.3	186	102	H
6	17.458	33.6	PK-U	41.6	-17.1	0	58.1	-	-	-	-	68.2	-10.1	173	140	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

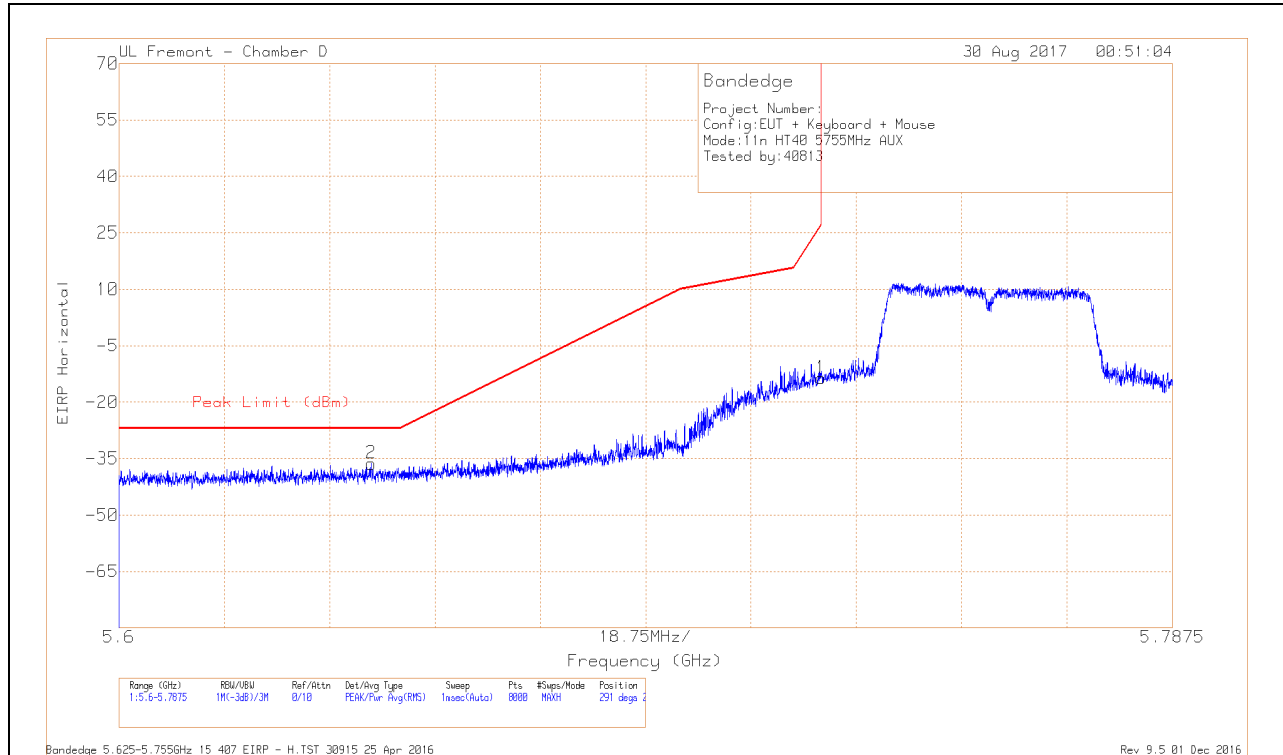


**5.1.11. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.8 GHz BAND**

**1TX Antenna WF4**

**BANDEDGE (LOW CHANNEL)**

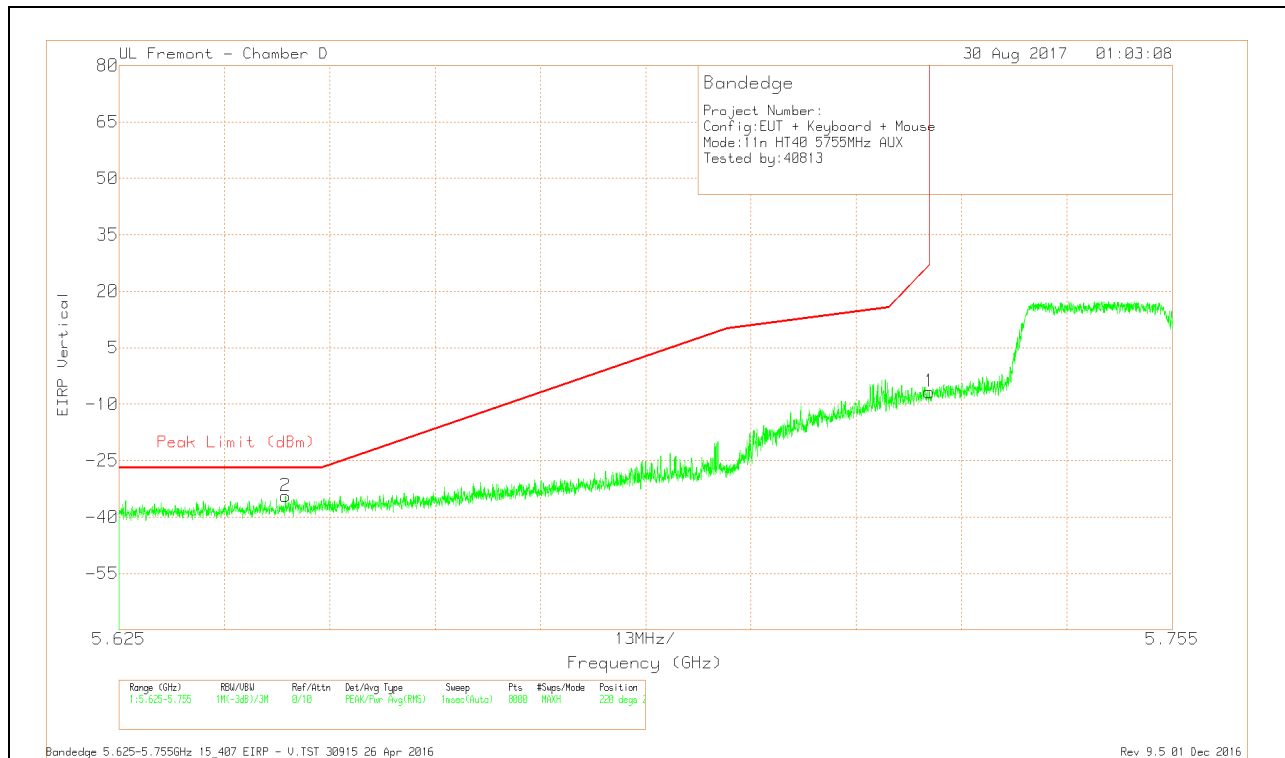
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity	
2	5.645	-65.33	Pk	34.7	-17.5	11.8	0	-36.33	-27	-9.33	291	206	H
1	5.725	-42.71	Pk	34.8	-17.5	11.8	0	-13.61	26.96	-40.57	291	206	H

Pk - Peak detector

**VERTICAL RESULT**

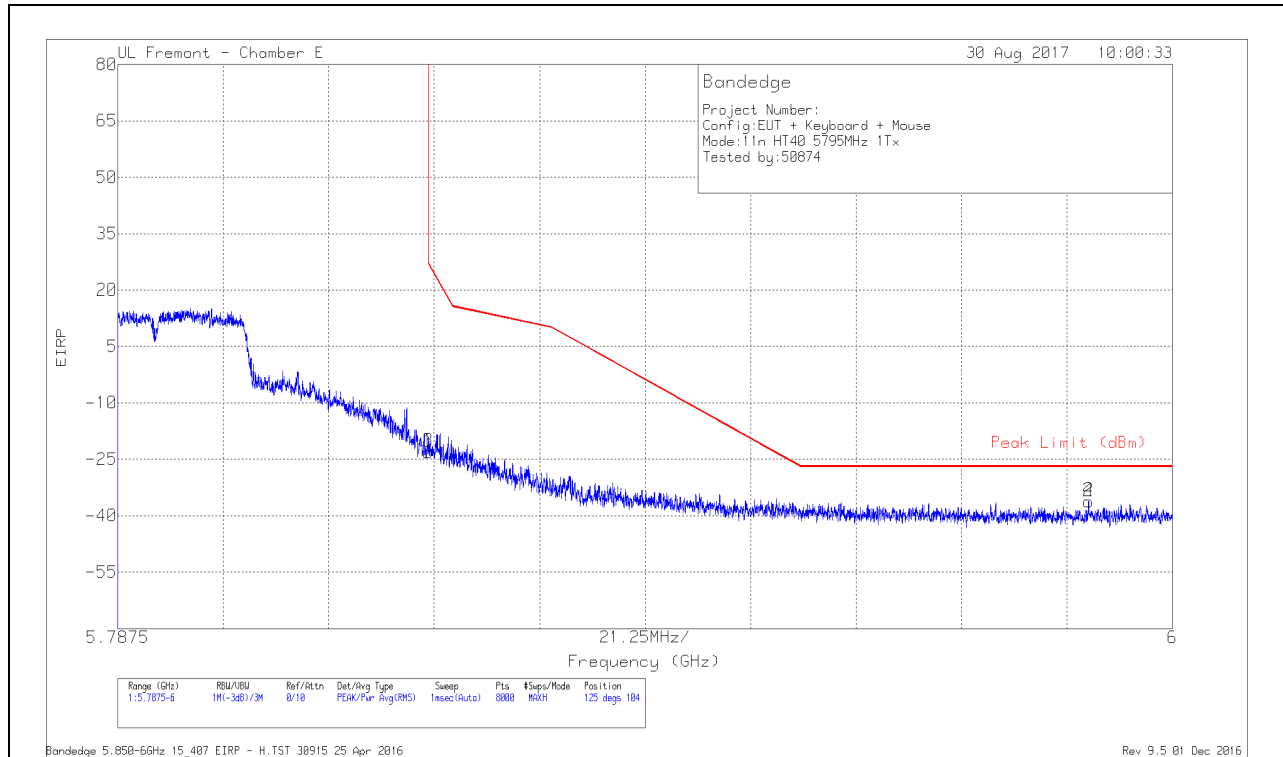


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T711 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.646	-63.42	Pk	34.7	-17.5	11.8	0	-34.42	-27	-7.42	220	216	V
1	5.725	-35.85	Pk	34.8	-17.5	11.8	0	-6.75	27	-33.75	220	216	V

Pk - Peak detector

**BANDEDGE (HIGH CHANNEL)**

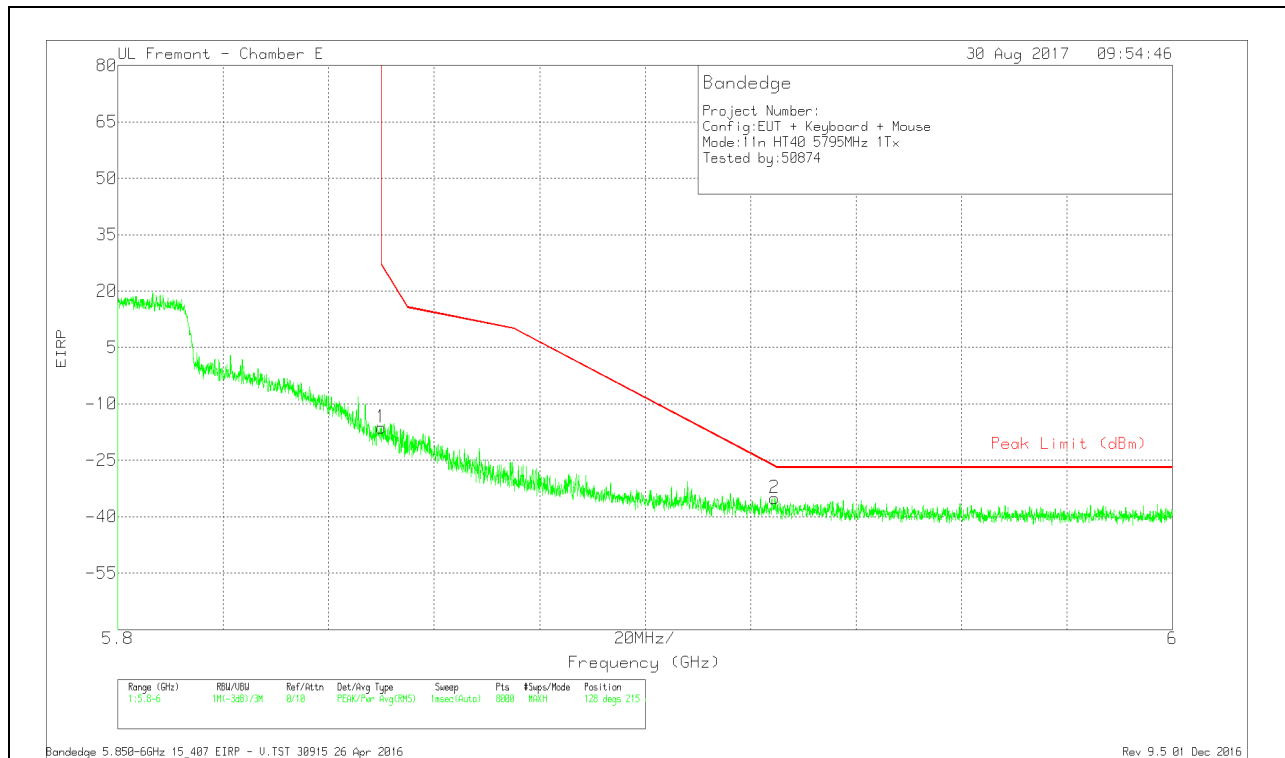
**HORIZONTAL RESULT**



Marker	Frequenc y (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversi on Factor (dB)	DC Corr (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-50.22	Pk	35.2	-19.8	11.8	0	-23.02	26.98	-50	125	104	H
3	5.85	-50.22	Pk	35.2	-19.8	11.8	0	-23.02	26.98	-50	125	104	H
2	5.983	-63.8	Pk	35.4	-19.5	11.8	0	-36.1	-27	-9.1	125	104	H
4	5.983	-63.8	Pk	35.4	-19.5	11.8	0	-36.1	-27	-9.1	125	104	H

Pk - Peak detector

**VERTICAL RESULT**

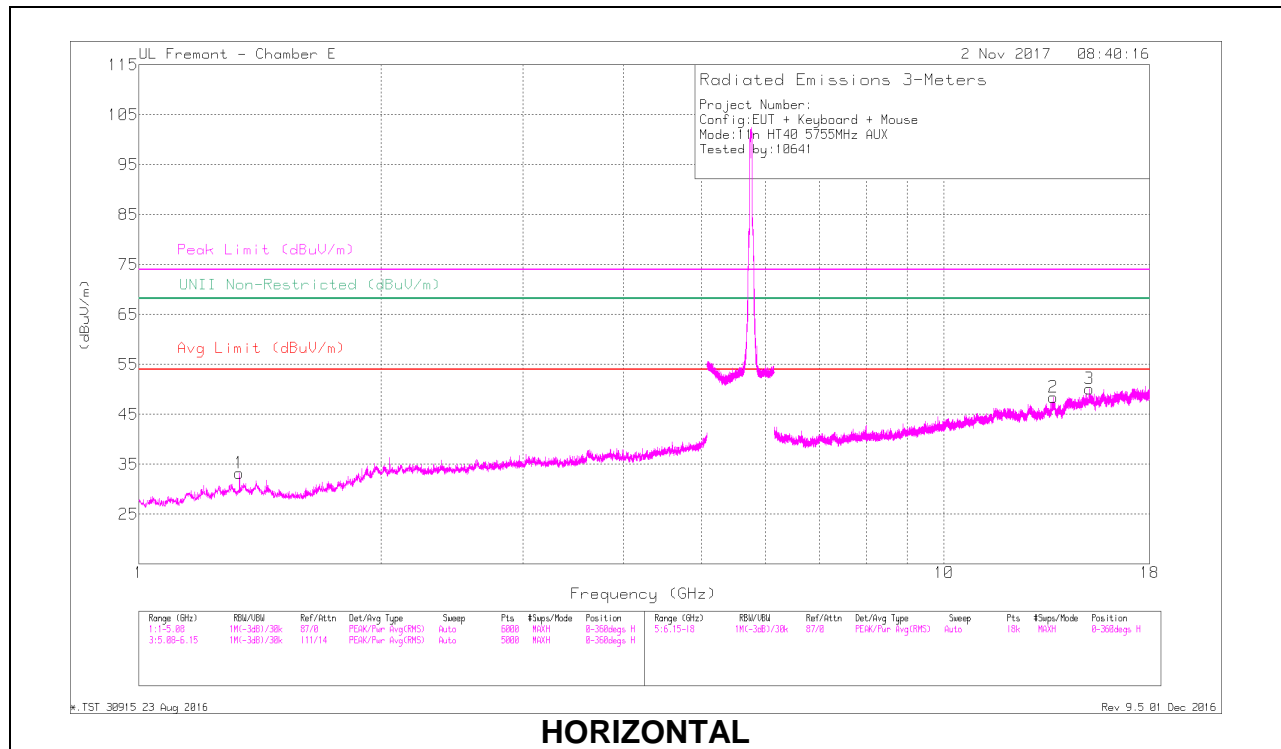


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-43.57	Pk	35.2	-19.8	11.8	0	-16.37	26.99	-43.36	128	215	V
2	5.925	-62.26	Pk	35.2	-19.8	11.8	0	-35.06	-26.7	-8.36	128	215	V

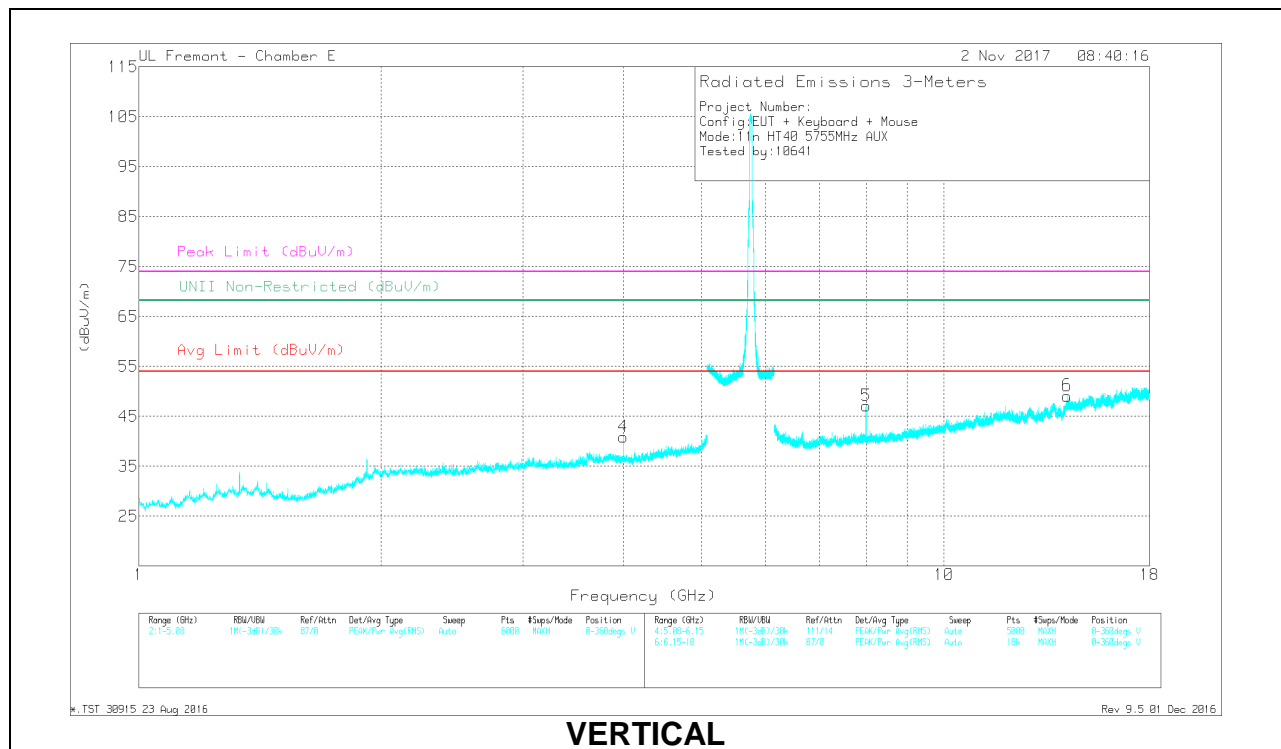
Pk - Peak detector

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**HORIZONTAL**



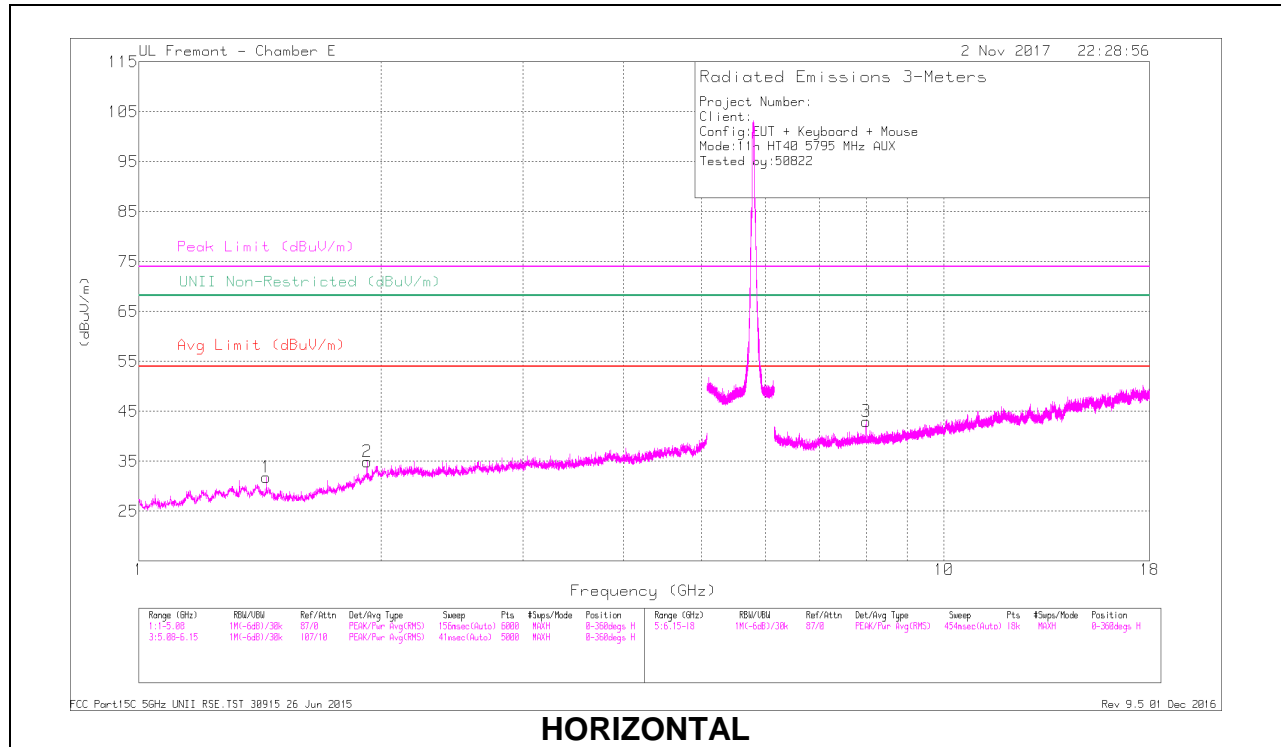
**VERTICAL**

**RADIATED EMISSIONS**

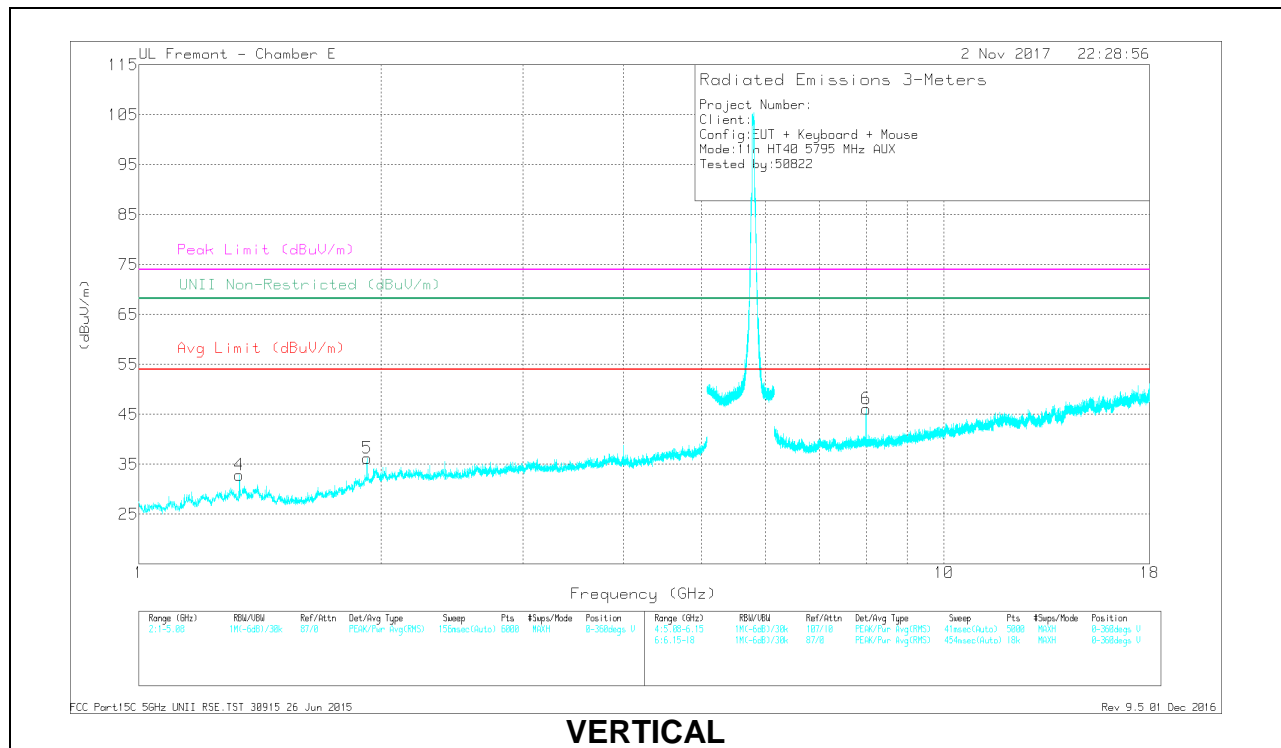
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.333	46.25	PK-U	28.9	-35	0	40.15	-	-	74	-33.85	-	-	208	100	H
	* 1.333	33.72	ADR	28.9	-35	.09	27.71	54	-26.29	-	-	-	-	208	100	H
4	* 4	42.82	PK-U	33.7	-29.5	0	47.02	-	-	74	-26.98	-	-	333	261	V
	* 4	31.37	ADR	33.7	-29.5	.09	35.66	54	-18.34	-	-	-	-	333	261	V
5	8	42.93	PK-U	36.5	-26.4	0	53.03	-	-	-	-	68.2	-15.17	114	216	V
2	13.66	38	PK-U	39.5	-23.2	0	54.3	-	-	-	-	68.2	-13.9	4	101	H
6	14.211	37.88	PK-U	40.7	-24.3	0	54.28	-	-	-	-	68.2	-13.92	345	356	V
3	15.152	37.66	PK-U	41.3	-22.7	0	56.26	-	-	-	-	68.2	-11.94	91	235	H

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

### HIGH CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.44	43.44	PK-U	28.3	-34.3	0	37.44	-	-	74	-36.56	-	-	223	101	H
	* 1.44	34.94	ADR	28.3	-34.3	.09	29.03	54	-24.97	-	-	-	-	223	101	H
4	* 1.333	47.25	PK-U	28.9	-35	0	41.15	-	-	74	-32.85	-	-	139	101	V
	* 1.333	32.9	ADR	28.9	-35	.09	26.89	54	-27.11	-	-	-	-	139	101	V
2	1.92	42.79	PK-U	31.1	-32.8	0	41.09	-	-	-	-	68.2	-27.11	88	101	H
	1.92	32.87	ADR	31.1	-32.8	.09	31.26	-	-	-	-	-	-	88	101	H
5	1.92	43.44	PK-U	31.1	-32.8	0	41.74	-	-	-	-	68.2	-26.46	4	101	V
	1.92	35.55	ADR	31.1	-32.8	.09	33.94	-	-	-	-	-	-	4	101	V
3	8	39.62	PK-U	36.5	-26.4	0	49.72	-	-	-	-	68.2	-18.48	148	101	H
	8	32.03	ADR	36.5	-26.4	.09	42.22	-	-	-	-	-	-	148	101	H
6	8	38.87	PK-U	36.5	-26.4	0	48.97	-	-	-	-	68.2	-19.23	148	101	H
	8	31.91	ADR	36.5	-26.4	.09	42.1	-	-	-	-	-	-	148	101	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

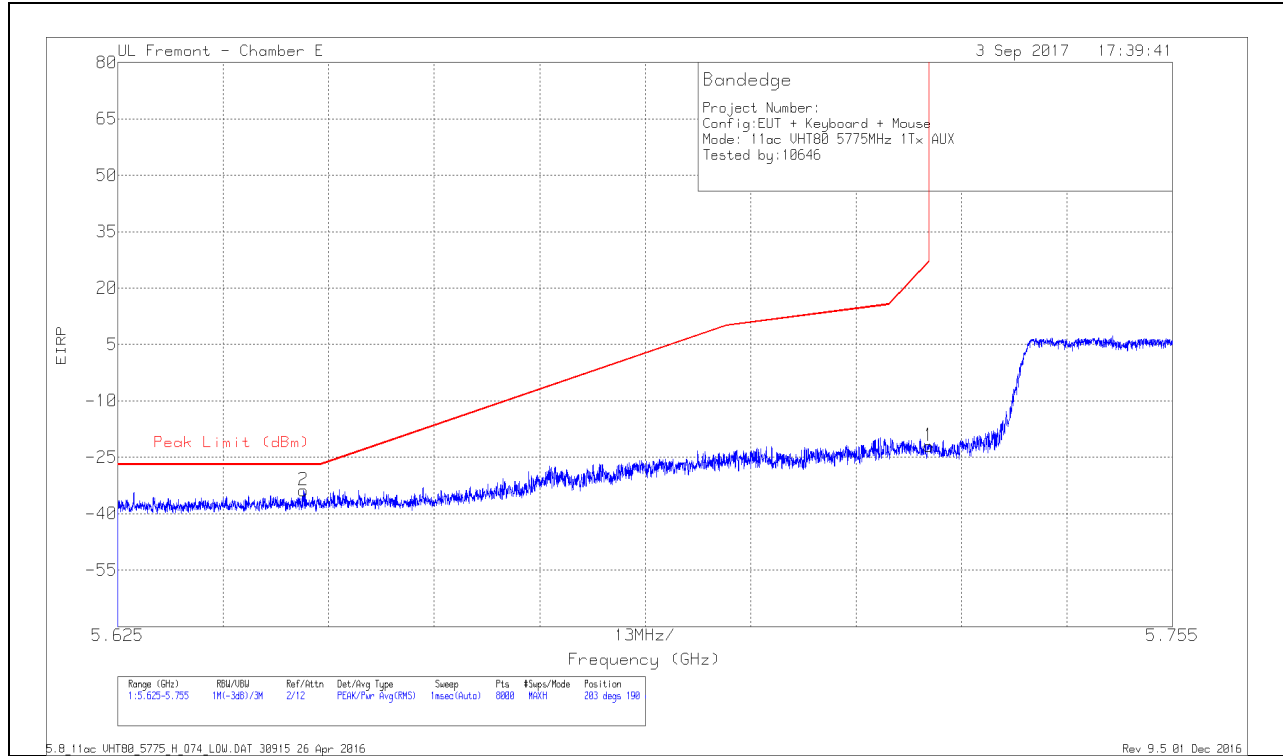


**5.1.12. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.8 GHz BAND**

**1TX Antenna WF4**

**BANDEDGE (CHANNEL 155 LOW EDGE)**

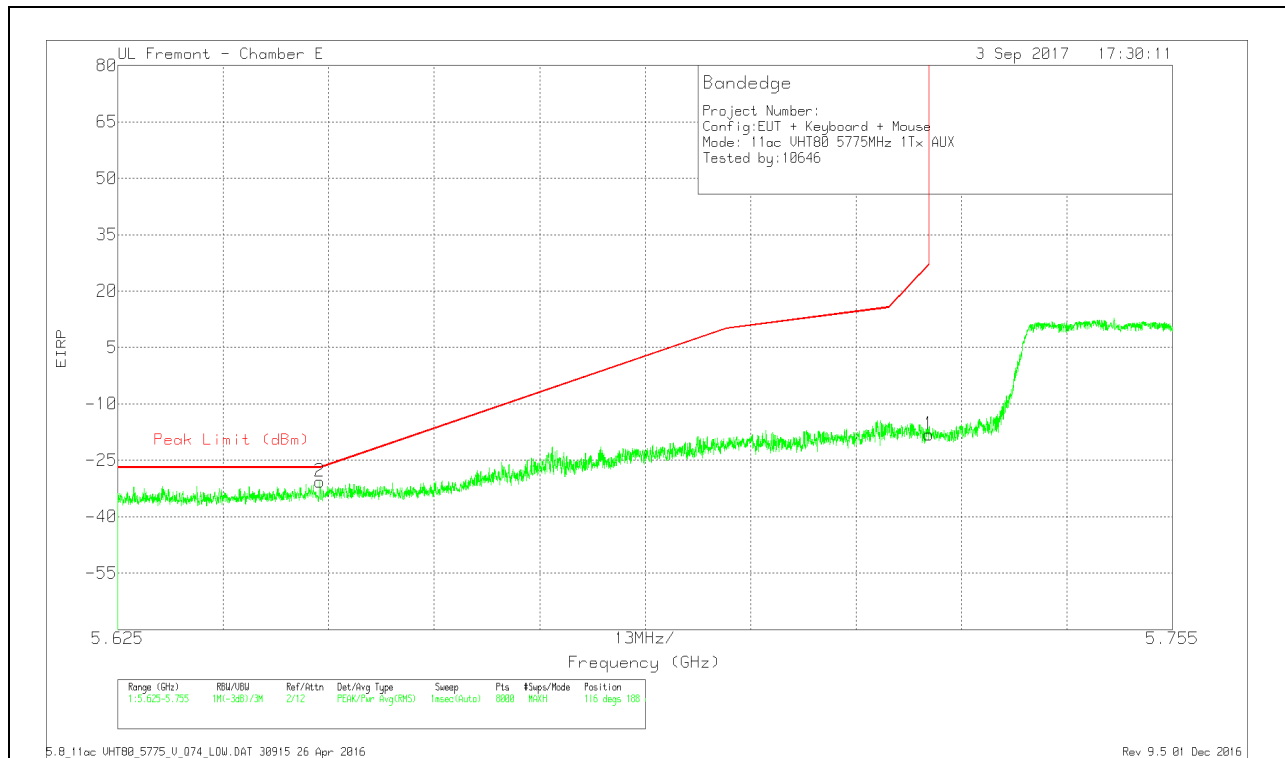
**HORIZONTAL RESULT**



Marker	Frequenc y (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversi on Factor (dB)	DC Corr (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.648	-61.52	Pk	35	-19.1	11.8	0	-33.82	-27	-6.82	203	190	H
1	5.725	-49.87	Pk	35.1	-19.1	11.8	0	-22.07	27	-49.07	203	190	H

Pk - Peak detector

**VERTICAL RESULT**

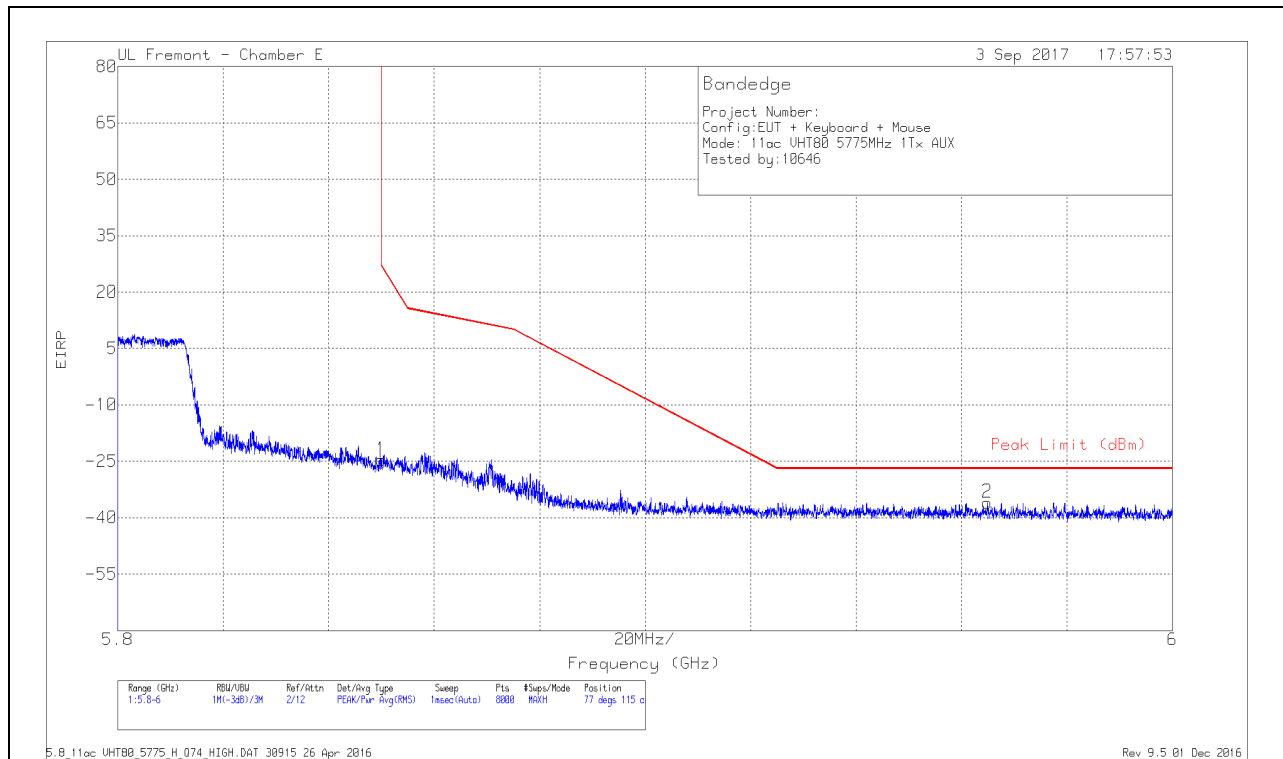


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.65	-58.44	Pk	35	-19	11.8	0	-30.64	-27	-3.64	116	188	V
1	5.725	-45.9	Pk	35.1	-19.1	11.8	0	-18.1	27	-45.1	116	188	V

Pk - Peak detector

**BANDEDGE (CHANNEL 155 HIGH EDGE)**

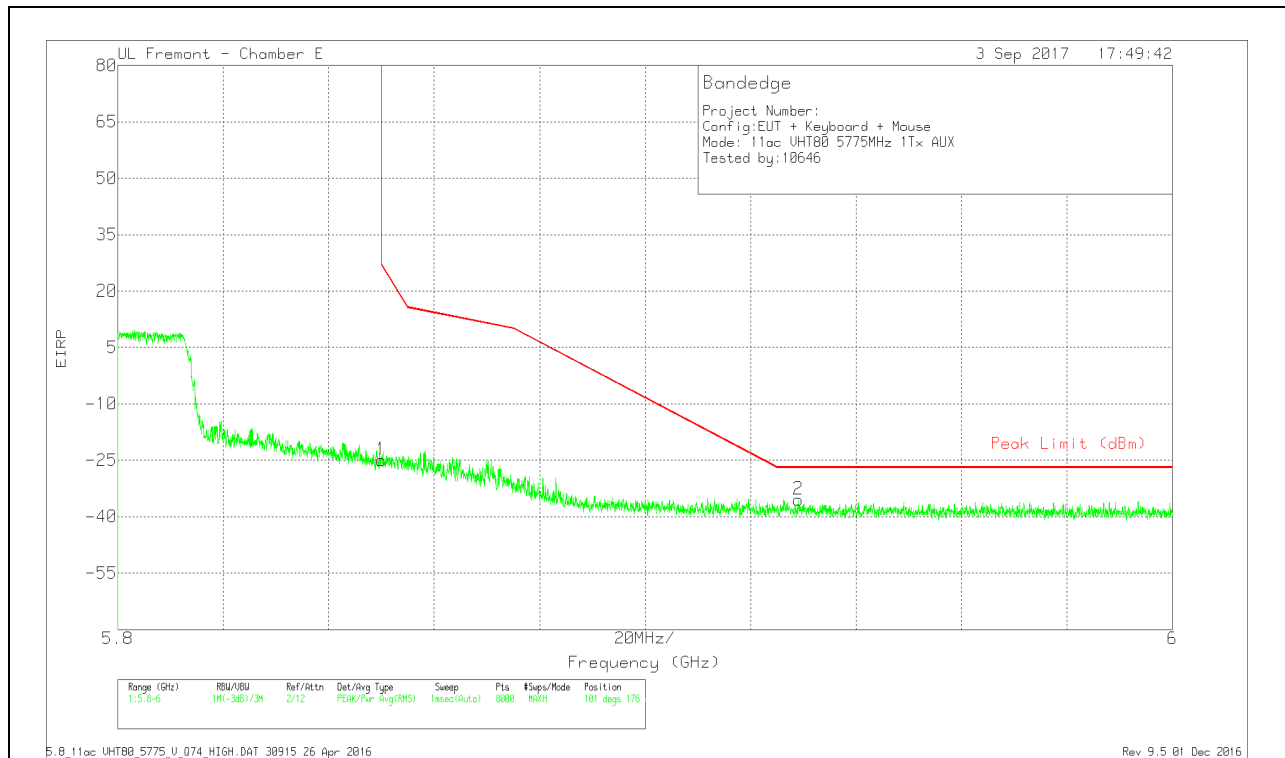
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-52.56	Pk	35.2	-19.1	11.8	0	-24.66	26.99	-51.65	77	115	H
2	5.965	-64.42	Pk	35.3	-18.6	11.8	0	-35.92	-27	-8.92	77	115	H

Pk - Peak detector

**VERTICAL RESULT**

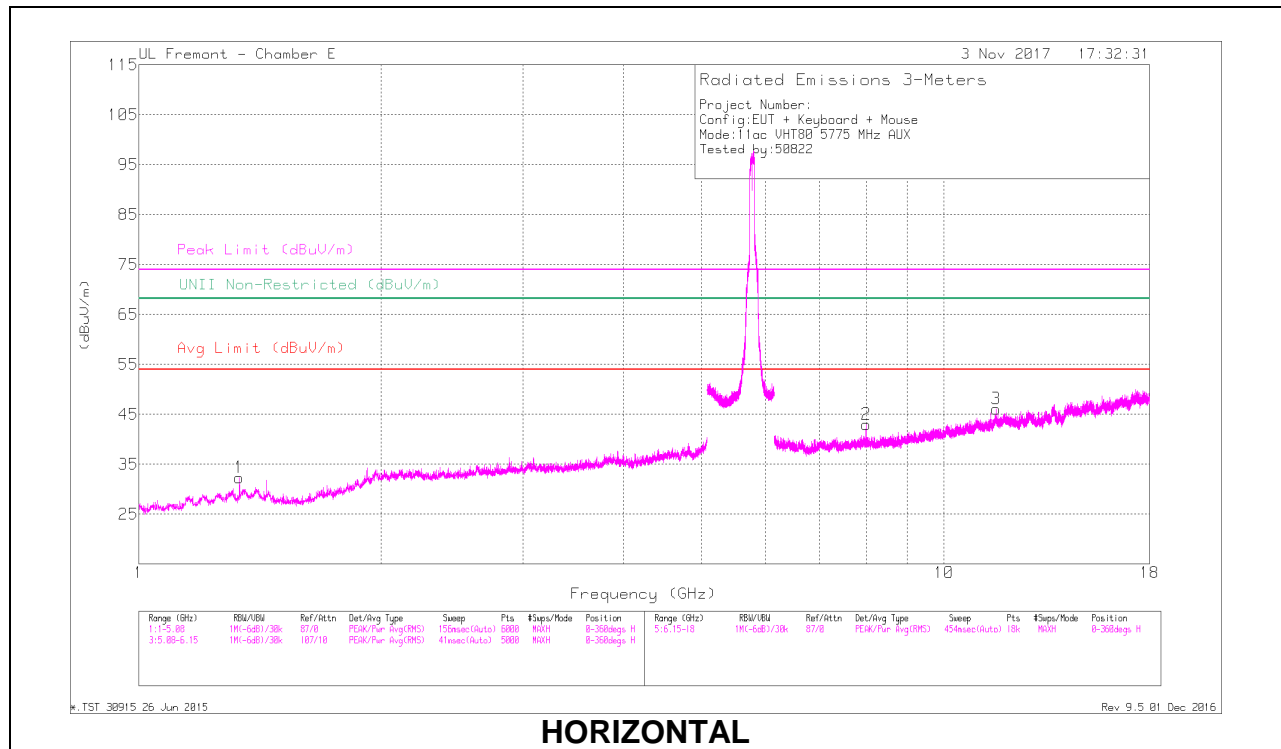


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl /Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-52.93	Pk	35.2	-19.1	11.8	0	-25.03	26.99	-52.02	101	176	V
2	5.929	-63.59	Pk	35.2	-18.8	11.8	0	-35.39	-27	-8.39	101	176	V

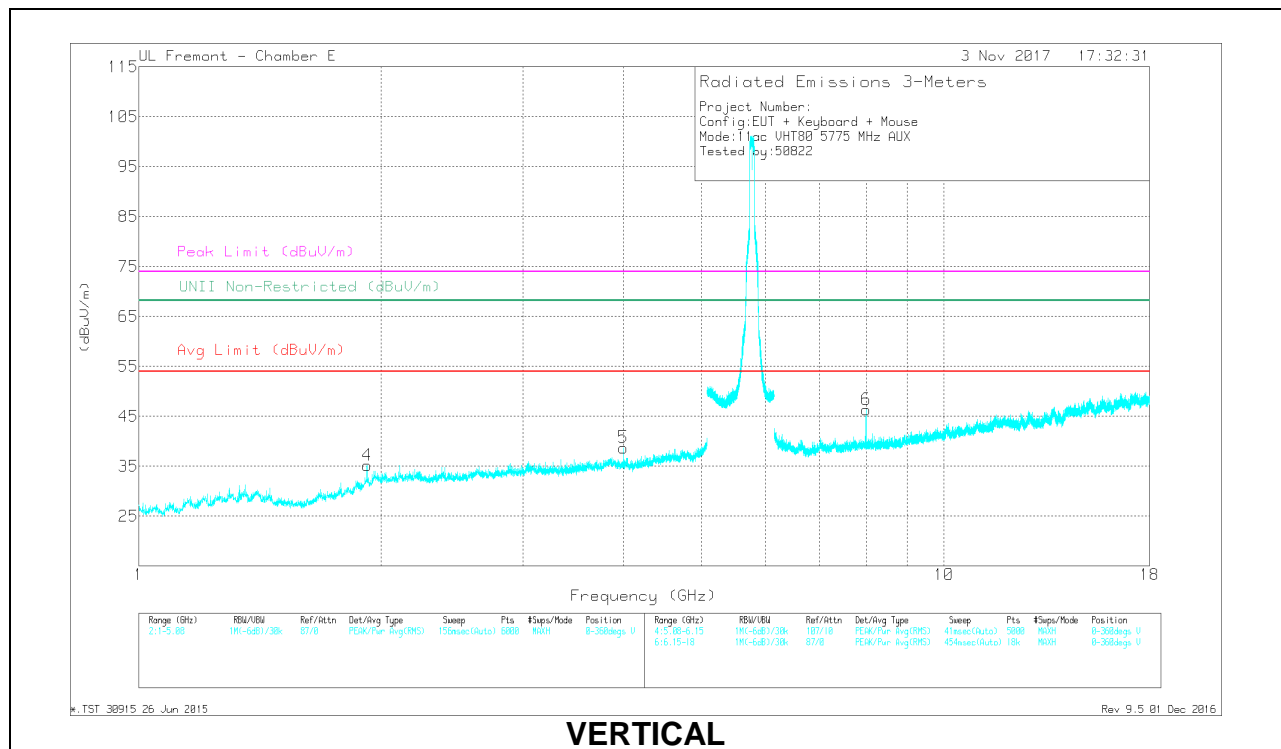
Pk - Peak detector

**HARMONICS AND SPURIOUS EMISSIONS**

**MID CHANNEL RESULTS**



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

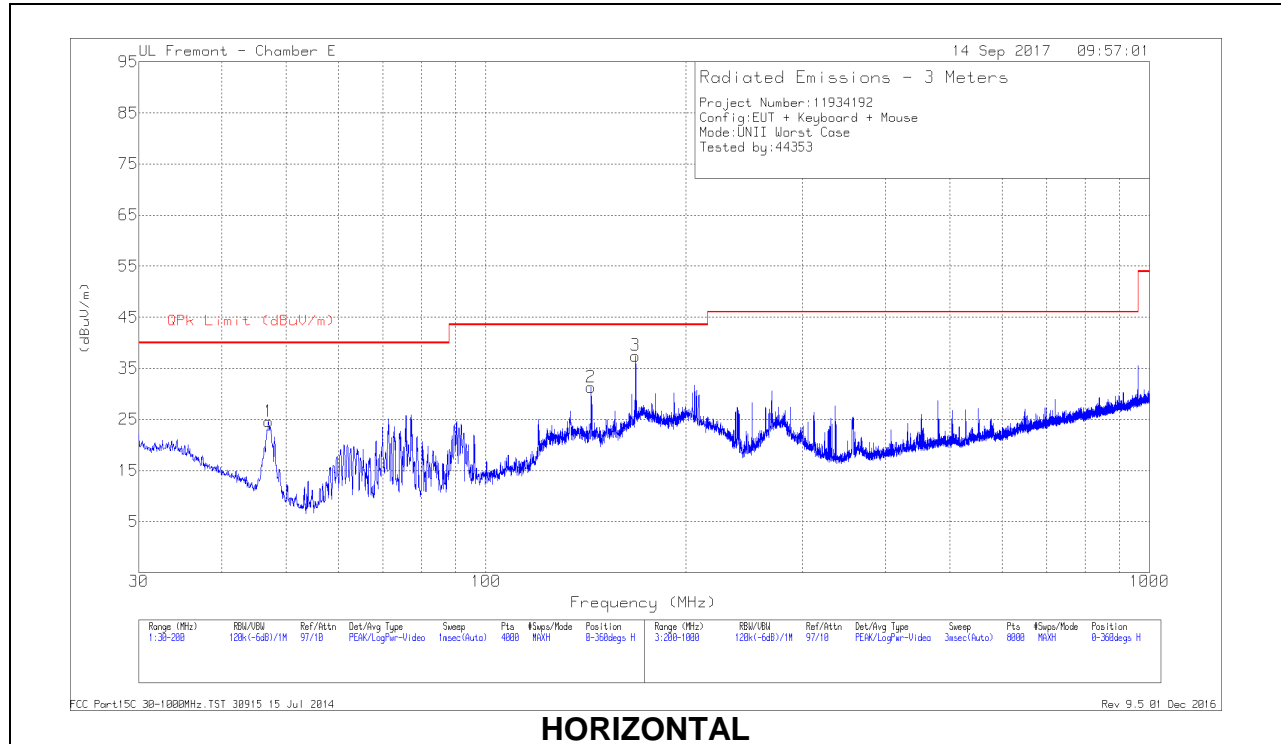
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbi/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.333	43.98	PK-U	28.9	-35	0	37.88	-	-	74	-36.12	-	-	178	101	H
	* 1.333	32.43	ADR	28.9	-35	.2	26.53	54	-27.47	-	-	-	-	178	101	H
5	* 4	40.36	PK-U	33.7	-29.5	0	44.56	-	-	74	-29.44	-	-	23	216	V
	* 4	30.77	ADR	33.7	-29.5	.2	35.17	54	-18.83	-	-	-	-	23	216	V
3	* 11.613	34.67	PK-U	38.8	-22.3	0	51.17	-	-	74	-22.83	-	-	222	101	H
	* 11.613	22.87	ADR	38.8	-22.3	.2	39.57	54	-14.43	-	-	-	-	222	101	H
4	1.92	43.72	PK-U	31.1	-32.8	0	42.02	-	-	-	-	68.2	-26.18	5	101	V
	1.92	35.87	ADR	31.1	-32.8	.2	34.37	-	-	-	-	-	-	5	101	V
2	8	30.19	ADR	36.5	-26.4	.2	40.49	-	-	-	-	-	-	290	101	H
	8	38.93	PK-U	36.5	-26.4	0	49.03	-	-	-	-	68.2	-19.17	333	104	V
6	8	31.26	ADR	36.5	-26.4	.2	41.56	-	-	-	-	-	-	333	104	V
	8.002	38.09	PK-U	36.5	-26.3	0	48.29	-	-	-	-	68.2	-19.91	290	101	H

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

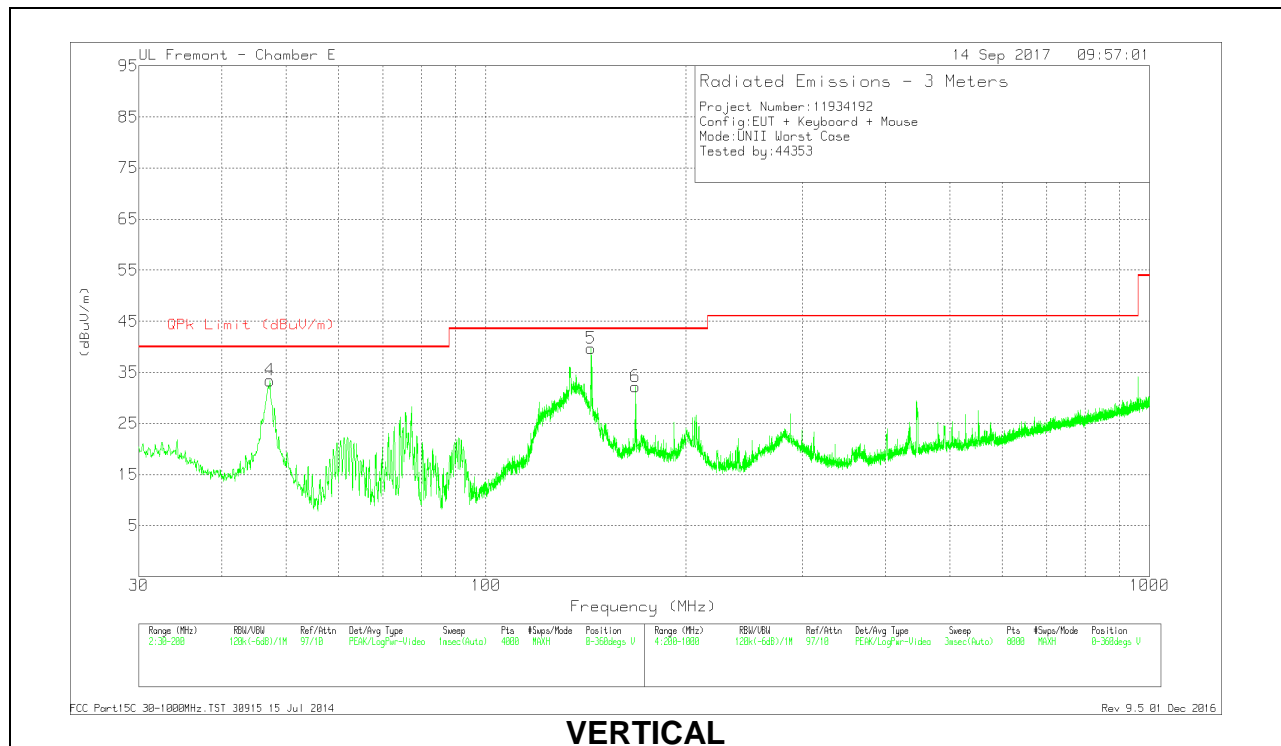
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### 5.2. Worst Case Below 1 GHz



**HORIZONTAL**



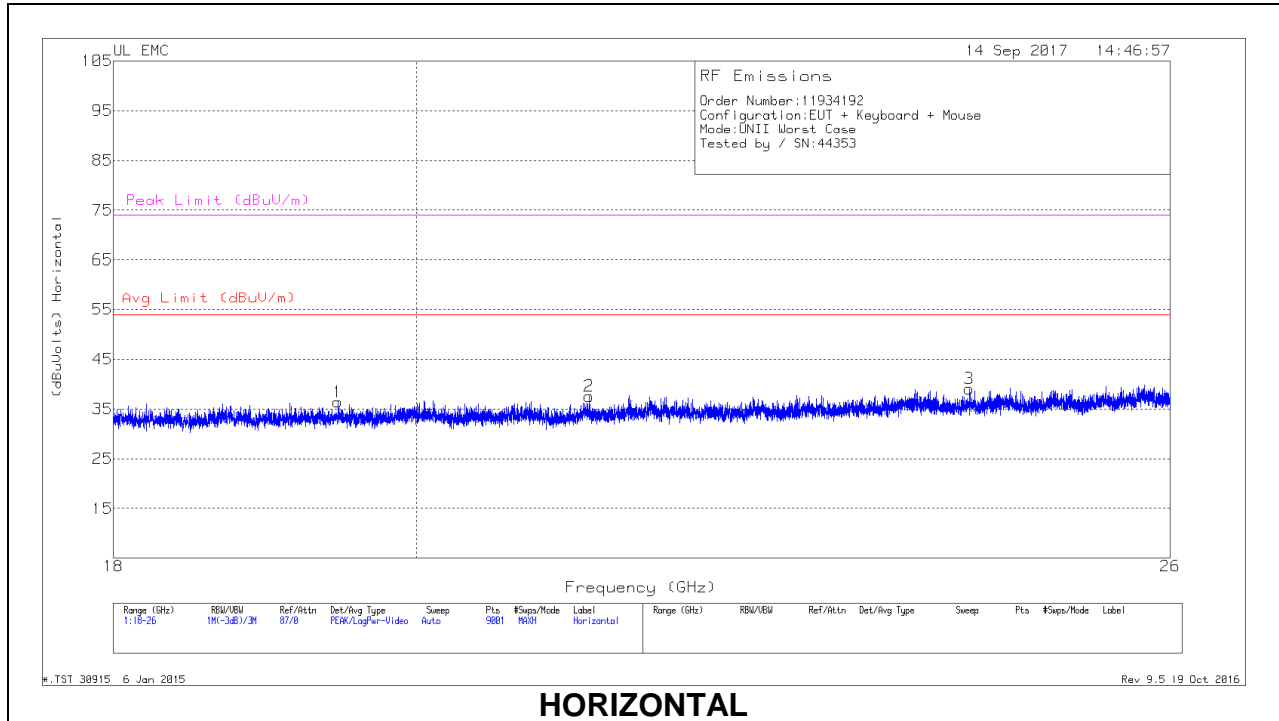
**VERTICAL**

**Below 1GHz DATA**

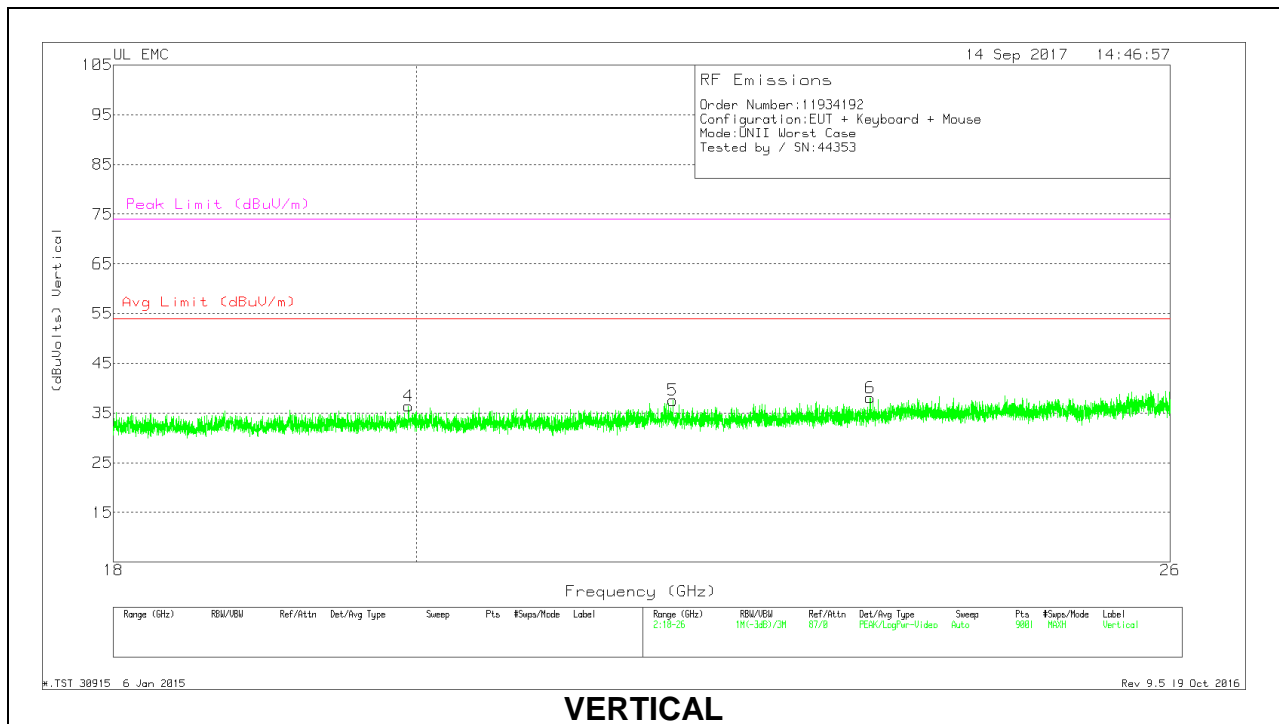
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T900 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 167.9482	52.27	Pk	15.4	-30.2	37.47	43.52	-6.05	0-360	200	H
6	* 167.9482	47.02	Pk	15.4	-30.2	32.22	43.52	-11.3	0-360	100	V
1	47.0469	43.37	Pk	12.6	-31.4	24.57	40	-15.43	0-360	400	H
4	47.302	52.41	Pk	12.4	-31.4	33.41	40	-6.59	0-360	100	V
2	143.9295	44.95	Pk	16.8	-30.4	31.35	43.52	-12.17	0-360	109	H
5	143.972	53.25	Pk	16.8	-30.4	39.65	43.52	-3.87	0-360	100	V



### 5.3. Worst Case 18-26 GHz



**HORIZONTAL**

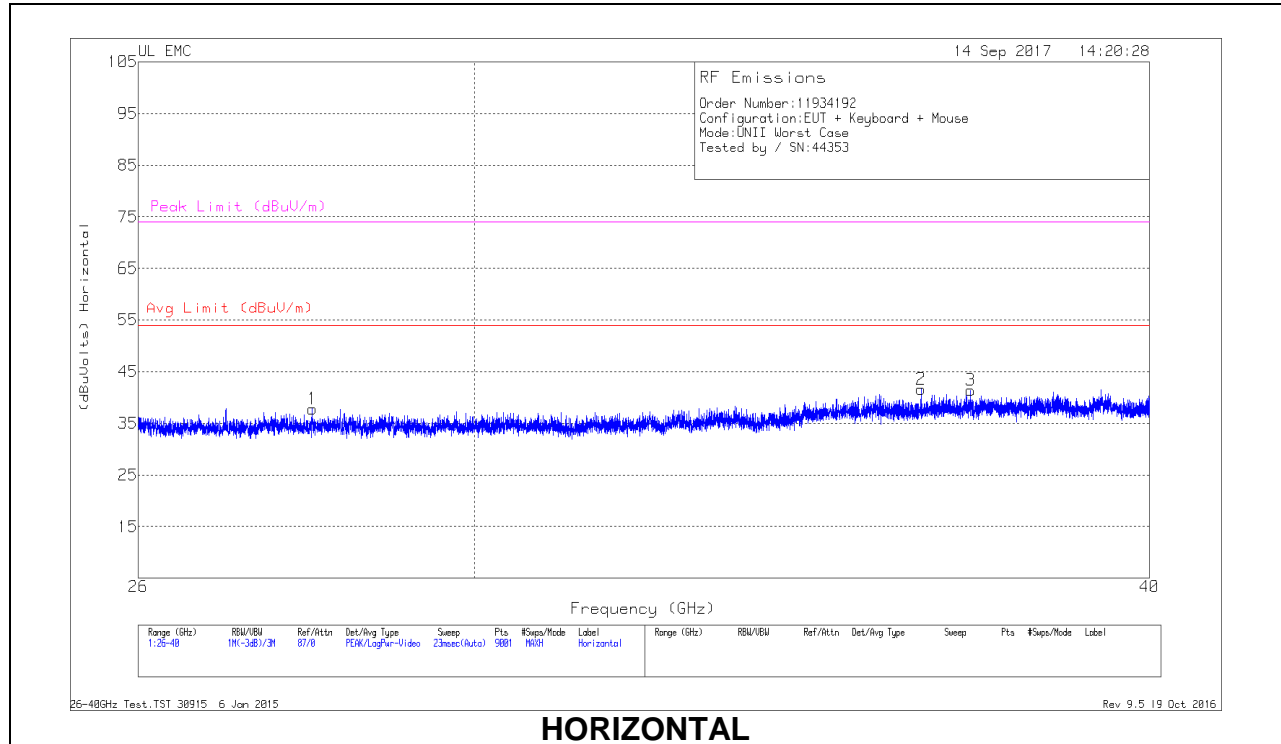


**VERTICAL**

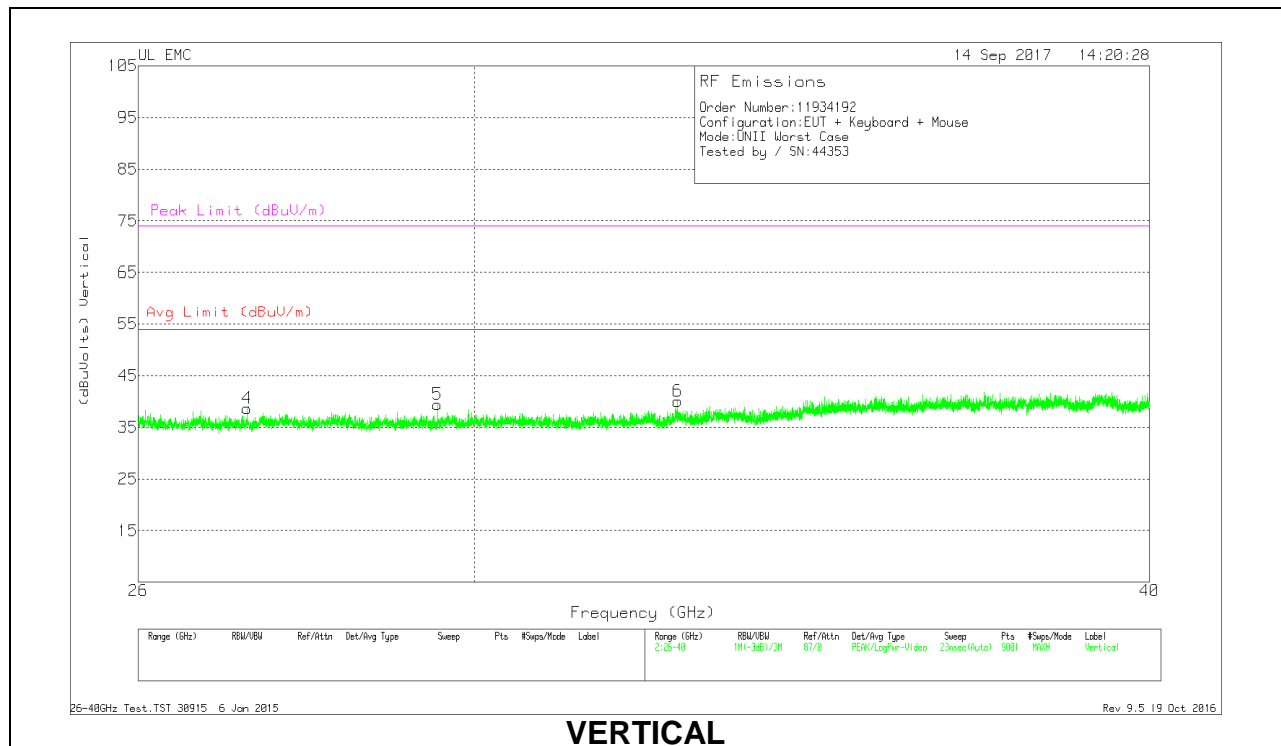
**18 – 26GHz DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T89 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	19.462	38.01	Pk	32.5	-24.6	-9.5	36.41	54	-17.59	74	-37.59
2	21.241	39.14	Pk	33.2	-25.3	-9.5	37.54	54	-16.46	74	-36.46
3	24.243	39.36	Pk	33.5	-24.3	-9.5	39.06	54	-14.94	74	-34.94
4	19.946	38.07	Pk	32.9	-25.1	-9.5	36.37	54	-17.63	74	-37.63
5	21.868	38.45	Pk	33.3	-24.7	-9.5	37.55	54	-16.45	74	-36.45
6	23.421	38.65	Pk	33.3	-24.4	-9.5	38.05	54	-15.95	74	-35.95

### 5.4. Worst Case 26-40 GHz



**HORIZONTAL**



**VERTICAL**

**26 – 40GHz DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T90 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	28	43.19	Pk	35.8	-31.7	-9.5	37.79	54	-16.21	74	-36.21
2	36.288	47.22	Pk	37.1	-33.2	-9.5	41.62	54	-12.38	74	-32.38
3	37.062	46.9	Pk	37.2	-33.2	-9.5	41.4	54	-12.6	74	-32.6
4	27.232	43.34	Pk	35.6	-30.8	-9.5	38.64	54	-15.36	74	-35.36
5	29.534	45.21	Pk	35.9	-32.2	-9.5	39.41	54	-14.59	74	-34.59
6	32.712	45.98	Pk	36.5	-32.9	-9.5	40.08	54	-13.92	74	-33.92

## 6. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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 C63.10.

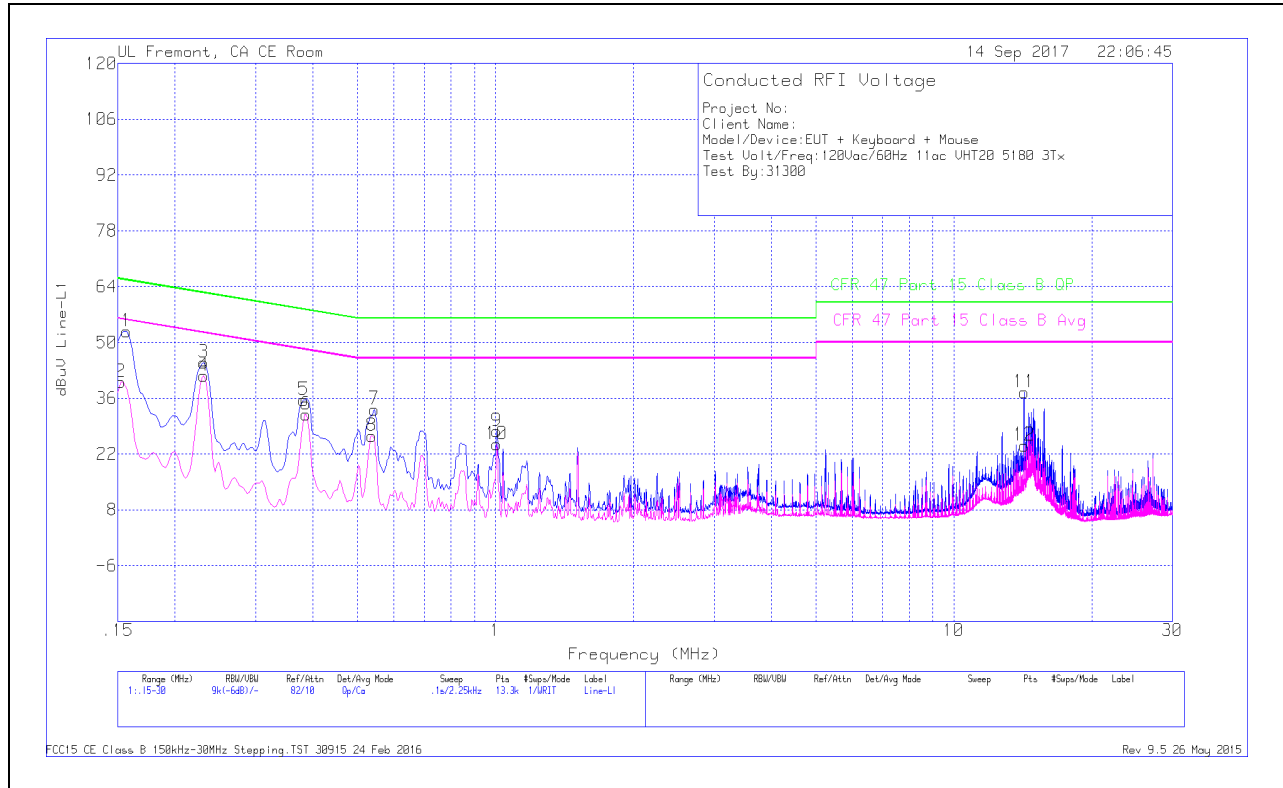
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

### RESULTS

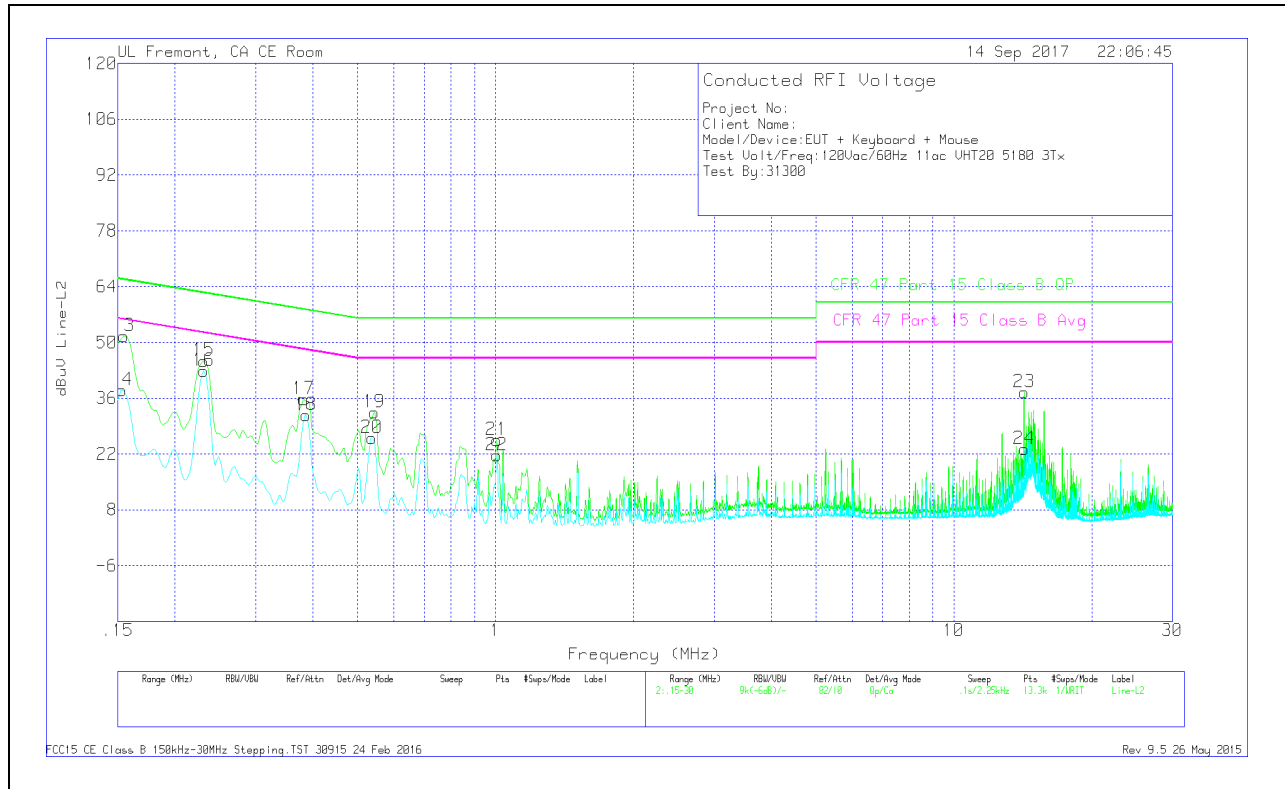
**AC Power Line ACDC**

**LINE 1 RESULTS**



Range 1: Line-L1 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L1	LC Cables C1&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
1	.15675	42.52	Qp	.1	.1	10.1	52.82	65.63	-12.81	-	-
2	.15225	29.81	Ca	.1	.1	10.1	40.11	-	-	55.88	-15.77
3	.231	34.78	Qp	0	.1	10.1	44.98	62.41	-17.43	-	-
4	.231	31.51	Ca	0	.1	10.1	41.71	-	-	52.41	-10.7
5	.38175	25.4	Qp	0	.1	10.1	35.6	58.24	-22.64	-	-
6	.38625	21.79	Ca	0	.1	10.1	31.99	-	-	48.14	-16.15
7	.54375	23.02	Qp	0	.1	10.1	33.22	56	-22.78	-	-
8	.537	16.37	Ca	0	.1	10.1	26.57	-	-	46	-19.43
9	1.00725	17.6	Qp	0	.1	10.1	27.8	56	-28.2	-	-
10	1.00725	14.28	Ca	0	.1	10.1	24.48	-	-	46	-21.52
11	14.262	27.02	Qp	.1	.2	10.2	37.52	60	-22.48	-	-
12	14.262	13.68	Ca	.1	.2	10.2	24.18	-	-	50	-25.82

**LINE 2 RESULTS**



Range 2: Line-L2 .15 - 30MHz											
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN L2	LC Cables C2&C3	Limiter (dB)	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)Margin (dB)
13	.1545	41.39	Qp	0	.1	10.1	51.59	65.75	-14.16	-	-
14	.15338	27.82	Ca	0	.1	10.1	38.02	-	-	55.81	-17.79
15	.231	35.19	Qp	0	.1	10.1	45.39	62.41	-17.02	-	-
16	.231	32.61	Ca	0	.1	10.1	42.81	-	-	52.41	-9.6
17	.38175	25.54	Qp	0	.1	10.1	35.74	58.24	-22.5	-	-
18	.38625	21.54	Ca	0	.1	10.1	31.74	-	-	48.14	-16.4
19	.54375	22.32	Qp	0	.1	10.1	32.52	56	-23.48	-	-
20	.537	15.8	Ca	0	.1	10.1	26	-	-	46	-20
21	1.00725	15.25	Qp	0	.1	10.1	25.45	56	-30.55	-	-
22	1.00725	11.53	Ca	0	.1	10.1	21.73	-	-	46	-24.27
23	14.2643	26.98	Qp	.1	.2	10.2	37.48	60	-22.52	-	-
24	14.2643	12.66	Ca	.1	.2	10.2	23.16	-	-	50	-26.84

**END OF REPORT**