



FCC 47 CFR PART 15 SUBPART C
INDUSTRY CANADA RSS-247 ISSUE 1

B-MODE RADIATED EMISSION
TEST REPORT

FOR

CELLULAR PHONE WITH BLUETOOTH AND WLAN RADIOS

MODEL NUMBER: A1779

FCC ID: BCG-E3086A
IC: 579C-E3086A

REPORT NUMBER: 16U23310-E2V2

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Prepared for
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NVLAP®

NVLAP LAB CODE 200065-0

Revision History

| Rev. | Issue Date | Revisions | Revised By |
|------|------------|---|------------|
| V1 | 07/22/2016 | Initial Issue | Chin Pang |
| V2 | 07/29/2016 | Revised Section 5.3, and 8.3 to address TCB's questions | Tina Chu |

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: APPLE, INC.
1 INFINITE LOOP
CUPERTINO, CA 95014, U.S.A.

EUT DESCRIPTION: CELLULAR PHONE WITH BLUETOOTH AND WLAN RADIOS

MODEL: A1779

SERIAL NUMBER: C39RW01HHFML (RADIATED)

DATE TESTED: JULY 21-29, 2016

| APPLICABLE STANDARDS | |
|---------------------------------|--------------|
| STANDARD | TEST RESULTS |
| CFR 47 Part 15 Subpart C | Pass |
| INDUSTRY CANADA RSS-247 Issue 1 | Pass |
| INDUSTRY CANADA RSS-GEN Issue 4 | Pass |

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

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SENIOR ENGINEER
UL VERIFICATION SERVICES INC.

Prepared By:



LIEU NGUYEN
EMC ENGINEER
UL VERIFICATION SERVICES INC.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, KDB 558074 D01 v03r05, ANSI C63.10-2013, RSS-GEN Issue 4, and RSS-247 Issue 1.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47266 Benicia Street, Fremont, California, USA. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

| 47173 Benicia Street | 47266 Benicia Street |
|------------------------------------|---|
| <input type="checkbox"/> Chamber A | <input type="checkbox"/> Chamber D |
| <input type="checkbox"/> Chamber B | <input checked="" type="checkbox"/> Chamber E |
| <input type="checkbox"/> Chamber C | <input type="checkbox"/> Chamber F |
| | <input type="checkbox"/> Chamber G |
| | <input type="checkbox"/> Chamber H |

The above test sites and facilities are covered under FCC Test Firm Registration # 208313. Chambers A through H are covered under Industry Canada company address code 2324B with site numbers 2324B -1 through 2324B-8, respectively.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/standards/scopes/2000650.htm>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| PARAMETER | UNCERTAINTY |
|--|-------------|
| Conducted Disturbance, 9KHz to 0.15 MHz | 3.84 dB |
| Conducted Disturbance, 0.15 to 30 MHz | 3.65 dB |
| Radiated Disturbance, 9KHz to 30 MHz | 3.15 dB |
| Radiated Disturbance, 30 to 1000 MHz | 5.36 dB |
| Radiated Disturbance, 1000 to 18000 MHz | 4.32 dB |
| Radiated Disturbance, 18000 to 26000 MHz | 4.45 dB |
| Radiated Disturbance, 26000 to 40000 MHz | 5.24 dB |

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT Model A1779 is a mobile phone with multimedia functions (music, application support, and video), cellular GSM/GPRS/EGPRS/CDMA/WCDMA/HSPA+/DC-HSDPA/LTE-radio, IEEE 802.11a/b/g/n/ac, NFC and Bluetooth radio. The rechargeable battery is not user accessible.

5.2. MAXIMUM OUTPUT POWER

Please refer to project number: UL-RPT-RP11241886JD07E, FCC ID: BCG-E3086A

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

| Frequency Band (GHz) | Antenna Gain (dBi) | |
|-------------------------|--------------------|---------|
| | Chain 0 | Chain 1 |
| 2.4 | -1.87 | -1.25 |

5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was 9.44.11.27.

5.5. WORST-CASE CONFIGURATION AND MODE

The fundamental of the EUT was investigated in three orthogonal orientations X/Y/Z, it was determined that (X) Flatbed orientation was worst-case orientation. Therefore, all final radiated testing was performed with the EUT in (X) Flatbed orientation.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

| Support Equipment List | | | | |
|------------------------|--------------|-------------|-------------------|--------|
| Description | Manufacturer | Model | Serial Number | FCC ID |
| Laptop | Apple | MacBook Pro | W885200F70K | NA |
| Laptop Power Supply | Apple | A1343 | C0420640G9KDJ92BD | NA |

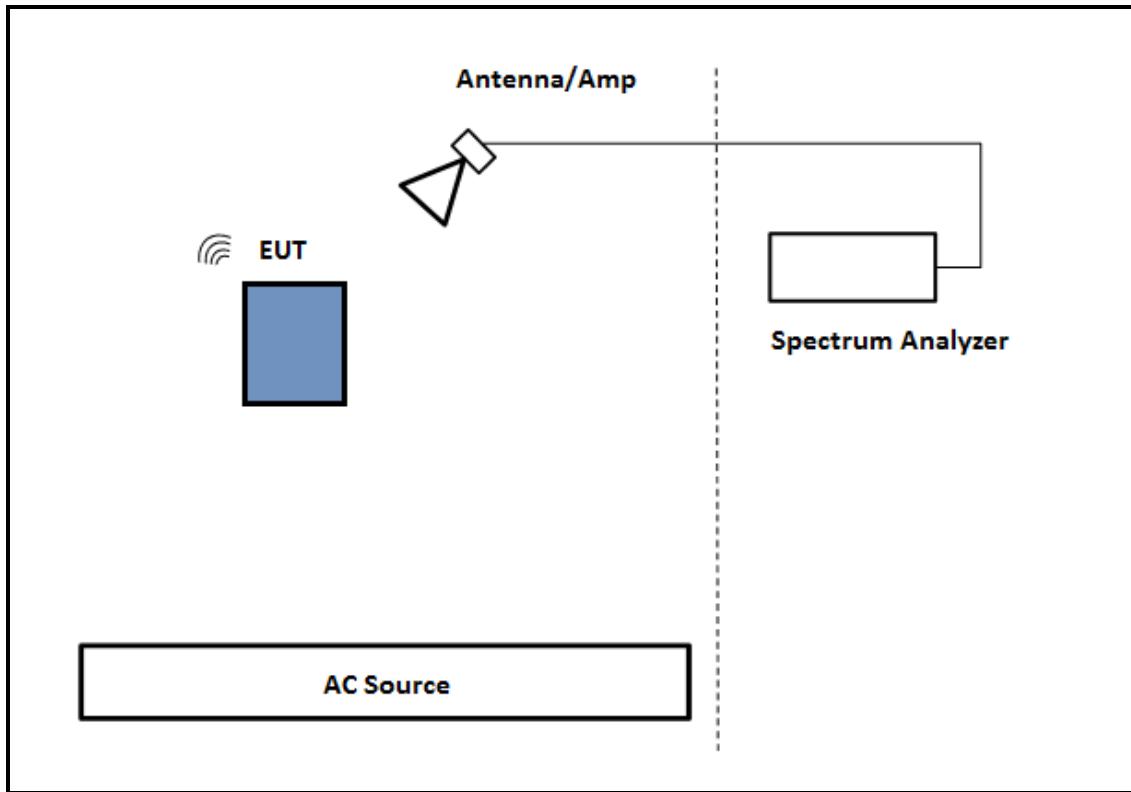
I/O CABLES (RADIATED ABOVE 1 GHZ)

| I/O Cable List | | | | | | |
|----------------|------|----------------------|----------------|------------|------------------|---------|
| Cable No | Port | # of identical ports | Connector Type | Cable Type | Cable Length (m) | Remarks |
| None Used | | | | | | |

TEST SETUP- RADIATED-ABOVE 1 GHZ

The battery powered EUT was tested as a standalone unit. Test software exercised the EUT.

SETUP DIAGRAM



6. TEST AND MEASUREMENT EQUIPMENT

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

| Test Equipment List | | | | |
|--|--------------|------------------------|------------------------|------------|
| Description | Manufacturer | Model | Asset | Cal Due |
| Amplifier, 1 - 18GHz | Miteq | AFS42-00101800-25-S-42 | 1782158 | 1/25/2017 |
| Spectrum Analyzer, PXA, 3Hz to 44GHz | Agilent | N9030A | MY52350675 | 11/15/2016 |
| Power Meter, P-series single channel | Agilent | N1911A | GB45100212 | 9/25/2016 |
| Power Sensor, P - series, 50MHz to 18GHz, Wideband | Agilent | N1921A | MY53260010 | 7/8/2016 |
| Antenna, Horn 18 to 26.5GHz | ARA | MWH-1826 | 209336 | 5/26/2017 |
| Spectrum Analyzer, 40 GHz | Agilent | 8564E | 3943A01643 | 8/14/2016 |
| Amplifier, 1 to 26.5GHz, 23.5dB Gain minimum | Keysight | 8449B | 3008A04710 | 7/5/2017 |
| UL SOFTWARE | | | | |
| * Radiated Software | UL | UL EMC | Ver 9.5, June 24, 2015 | |

Note: * indicates automation software version used in the compliance certification testing

7. MEASUREMENT METHODS

Output Power: KDB 558074 D01 v03r05, Section 9.1.2.

Radiated Spurious Emission: KDB 558074 D01 v03r05, Section 12.1

8. RADIATED TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-GEN, Section 8.9 and 8.10.

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

TEST PROCEDURE

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

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

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

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

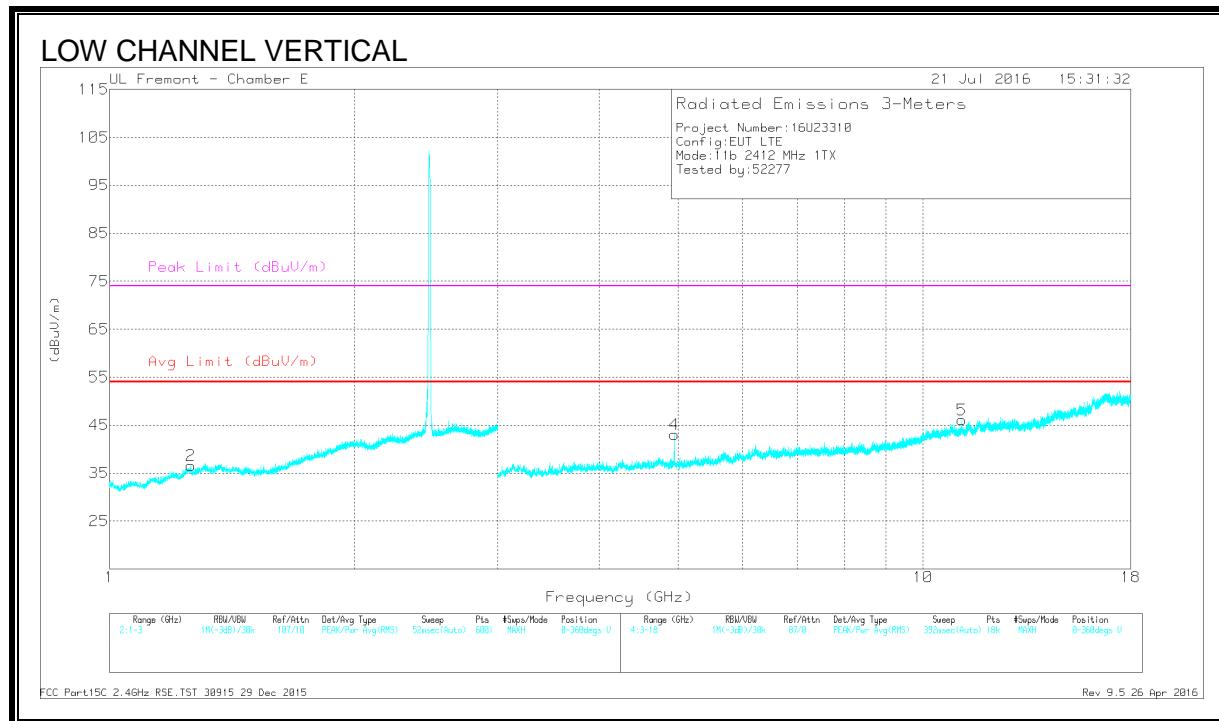
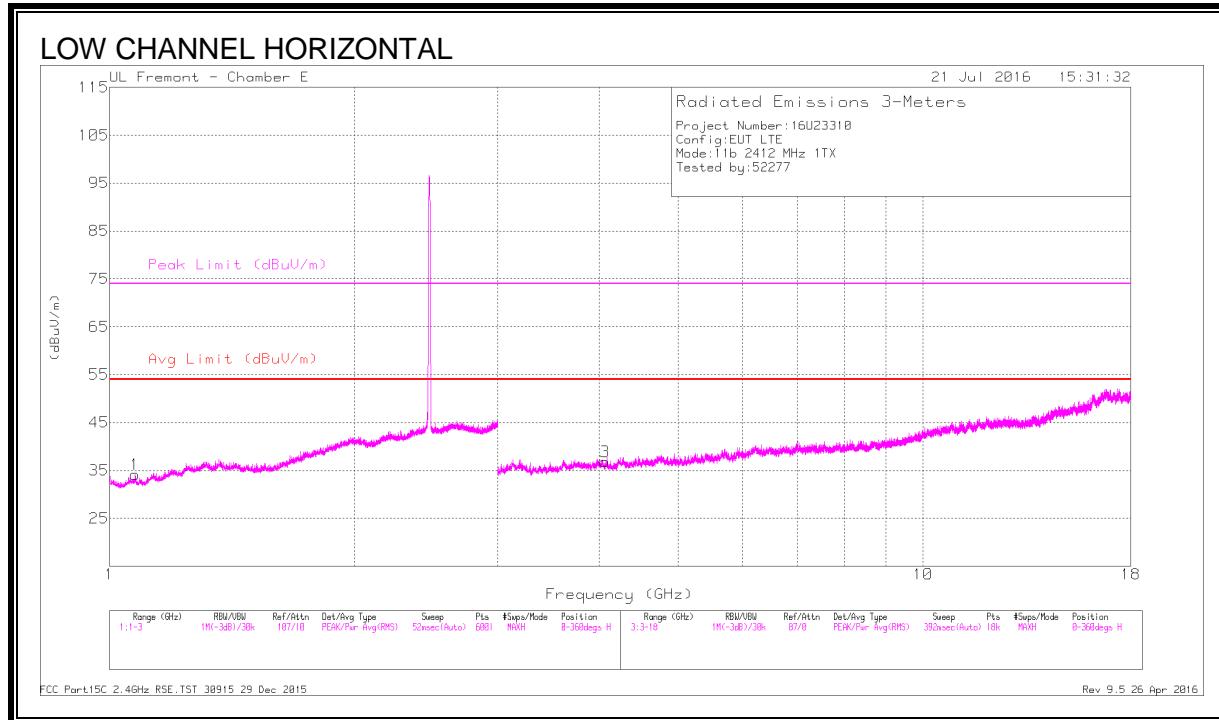
For 2.4 GHz band, the spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

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

8.2. TRANSMITTER ABOVE 1 GHz

8.2.1. 802.11b 1Tx MODE IN THE 2.4 GHz BAND CHAIN 0

HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL



DATA

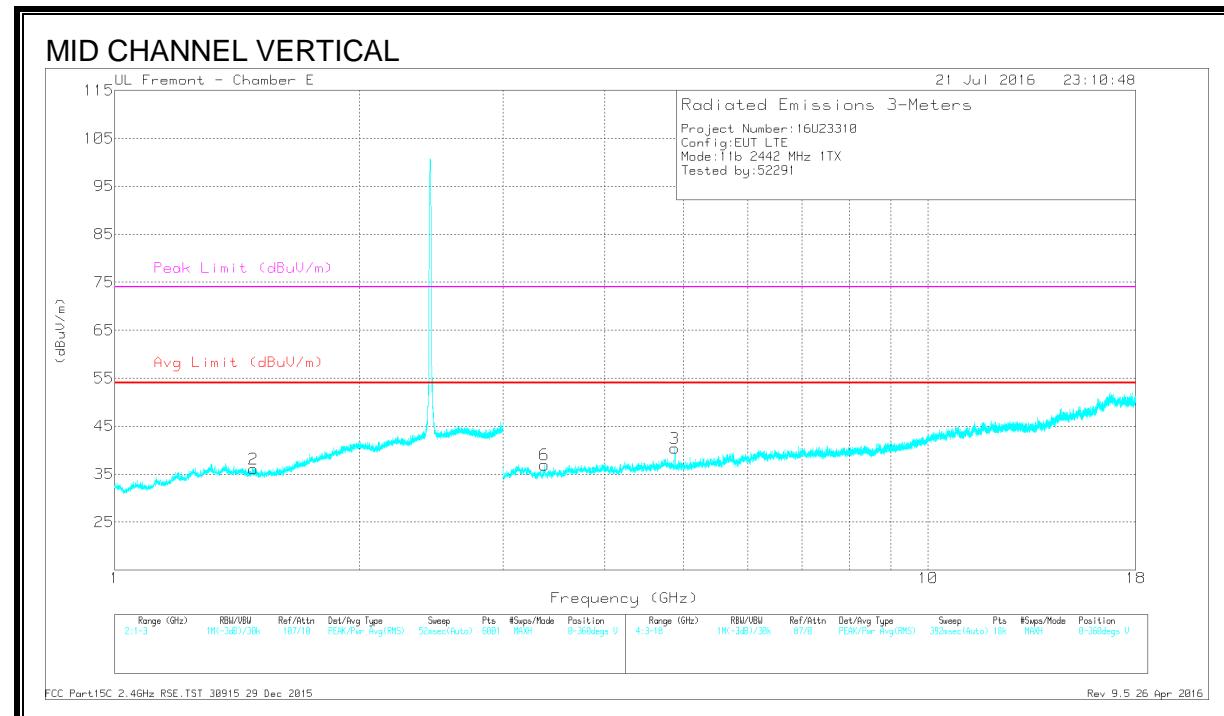
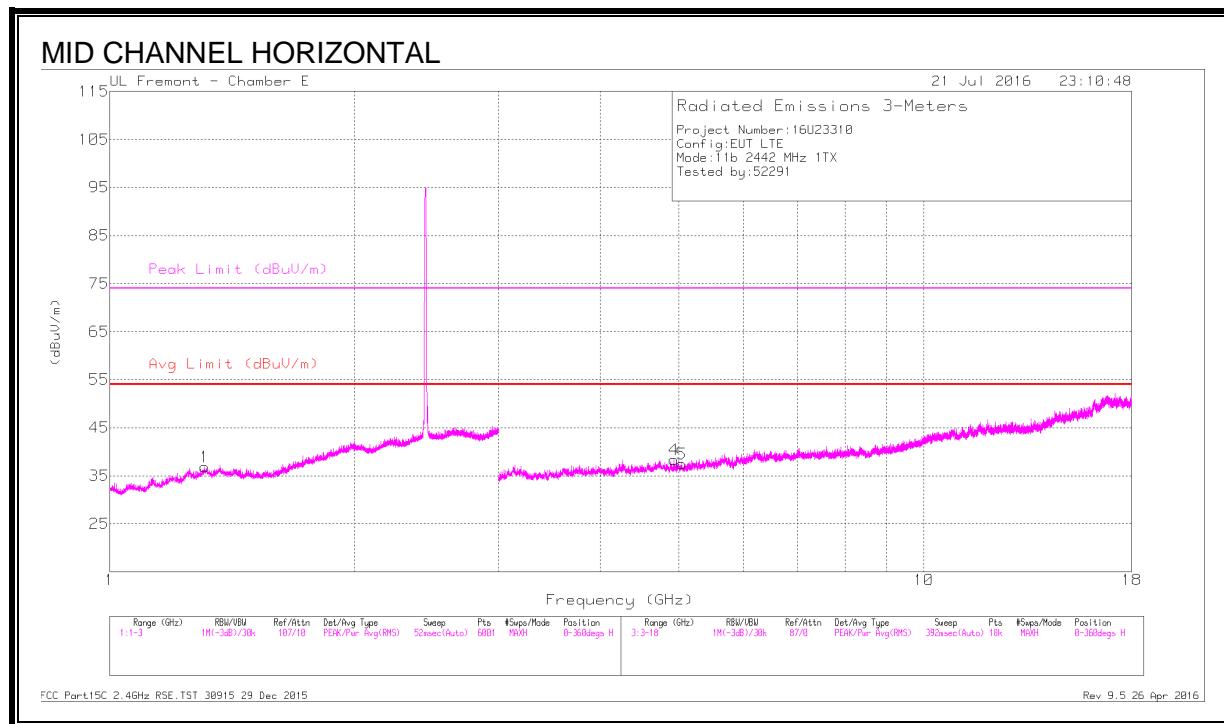
Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl/Filter/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polari ty |
|--------|-----------------|----------------------|-----|----------------|-------------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|-----------|
| 1 | * 1.075 | 30.49 | Pk | 27.6 | -23.9 | 34.19 | - | - | 74 | -39.81 | 0-360 | 200 | H |
| 2 | * 1.259 | 30.28 | Pk | 29 | -22.7 | 36.58 | - | - | 74 | -37.42 | 0-360 | 100 | V |
| 3 | * 4.063 | 34.38 | Pk | 33.3 | -30.8 | 36.88 | - | - | 74 | -37.12 | 0-360 | 200 | H |
| 4 | * 4.944 | 39.53 | Pk | 34 | -30.5 | 43.03 | - | - | 74 | -30.97 | 0-360 | 200 | V |
| 5 | * 11.161 | 31.24 | Pk | 38.1 | -23.2 | 46.14 | - | - | 74 | -27.86 | 0-360 | 200 | V |

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

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL,



DATA

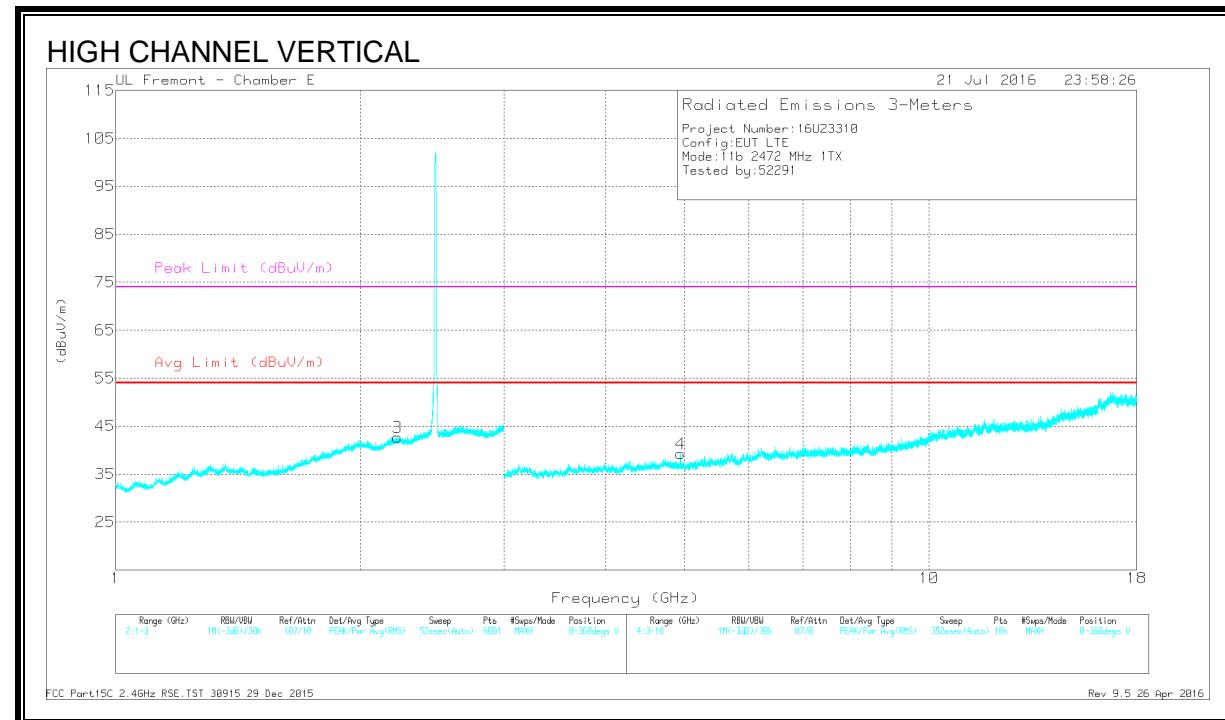
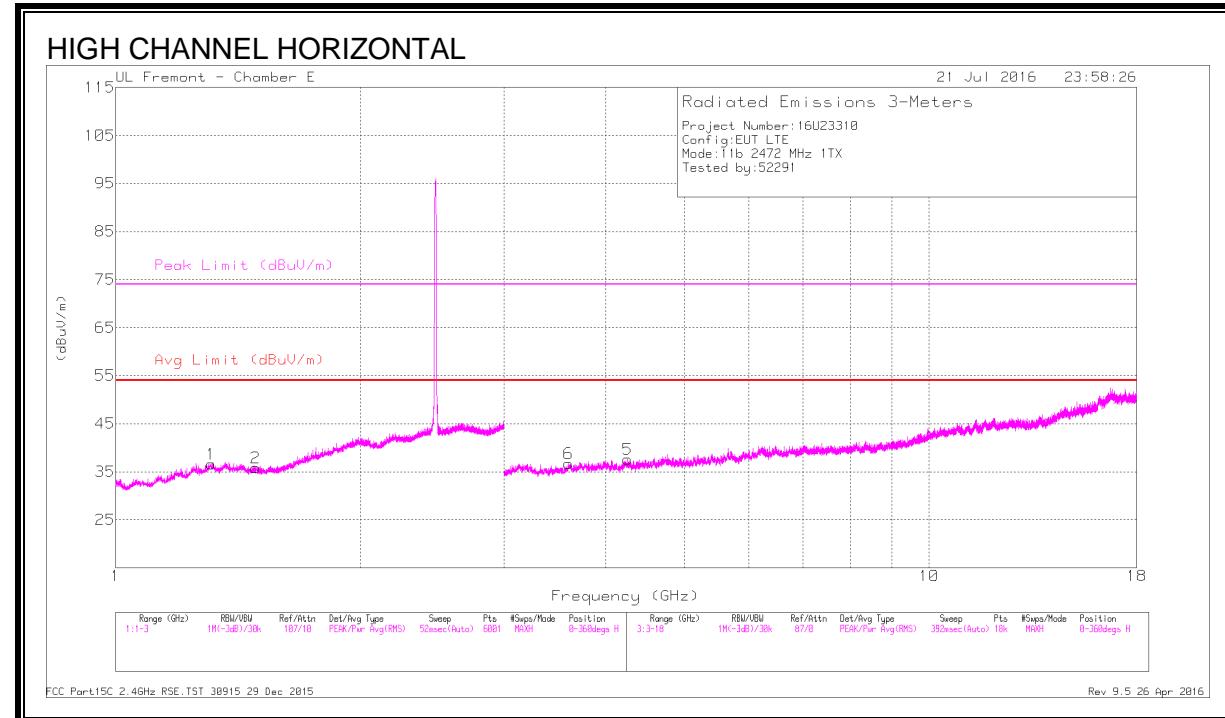
Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cb I/Fltr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 1.309 | 30 | Pk | 29.3 | -22.4 | 0 | 36.9 | - | - | 74 | -37.1 | 0-360 | 100 | H |
| 2 | * 1.481 | 29.65 | Pk | 28 | -21.6 | 0 | 36.05 | - | - | 74 | -37.95 | 0-360 | 200 | V |
| 4 | * 4.934 | 34.94 | Pk | 34 | -30.6 | 0 | 38.34 | - | - | 74 | -35.66 | 0-360 | 100 | H |
| 5 | * 5.045 | 33.25 | Pk | 34 | -29.8 | 0 | 37.45 | - | - | 74 | -36.55 | 0-360 | 199 | H |
| 3 | * 4.884 | 36.69 | Pk | 34 | -30.3 | 0 | 40.39 | - | - | 74 | -33.61 | 0-360 | 199 | V |
| 6 | 3.373 | 34.71 | Pk | 32.8 | -30.6 | 0 | 36.91 | - | - | - | - | 0-360 | 199 | V |

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

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL



DATA

Trace Markers

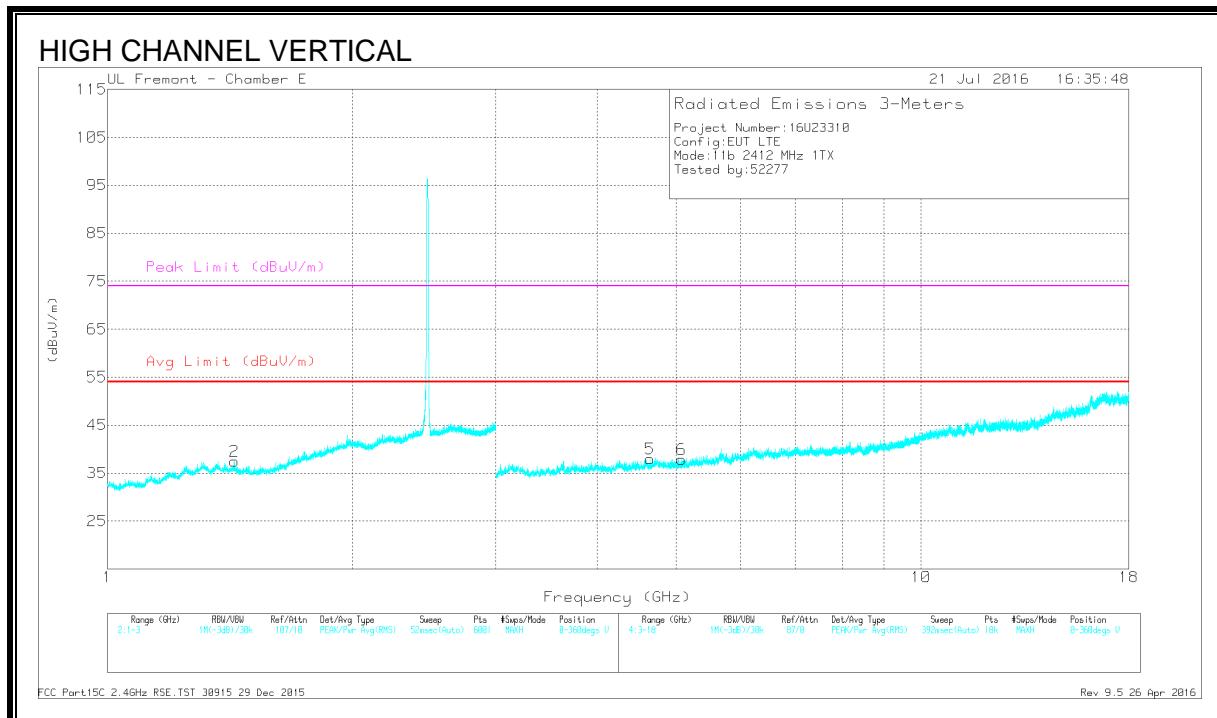
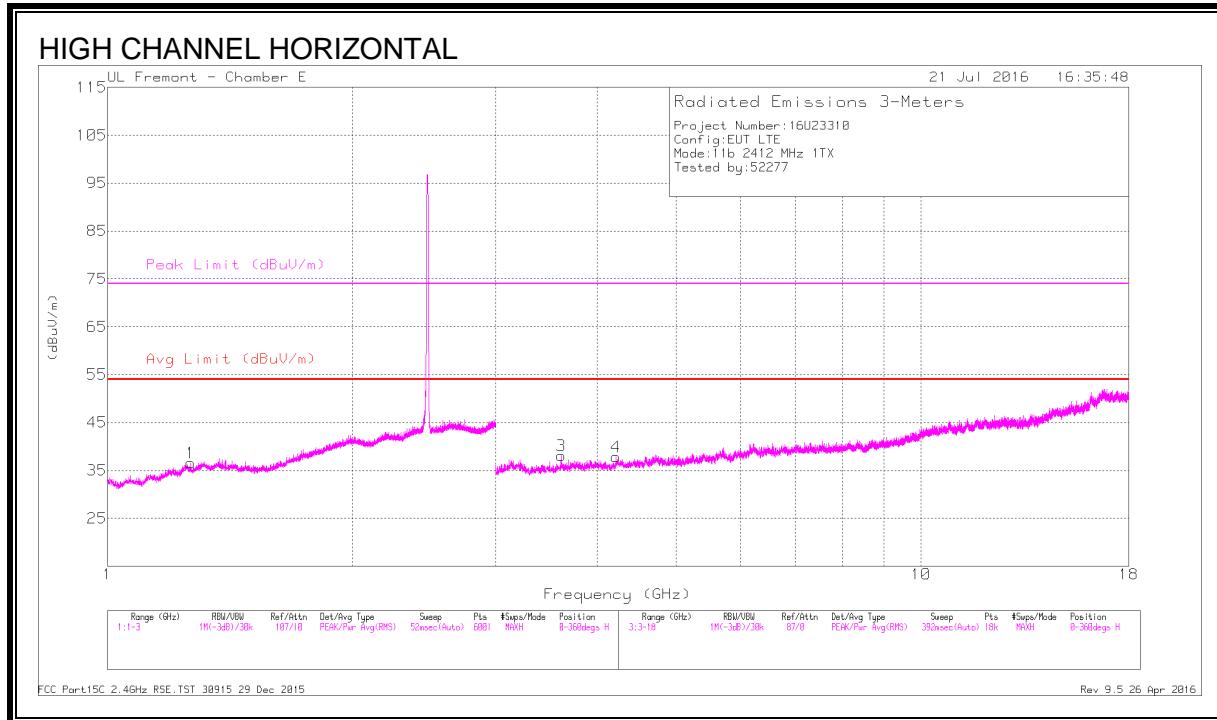
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cb I/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-------------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 1.311 | 29.64 | Pk | 29.3 | -22.4 | 0 | 36.54 | - | - | 74 | -37.46 | 0-360 | 100 | H |
| 2 | * 1.485 | 29.47 | Pk | 27.9 | -21.6 | 0 | 35.77 | - | - | 74 | -38.23 | 0-360 | 200 | H |
| 3 | * 2.221 | 31.03 | Pk | 31.8 | -20.1 | 0 | 42.73 | - | - | 74 | -31.27 | 0-360 | 100 | V |
| 5 | * 4.259 | 33.27 | Pk | 33.3 | -29 | 0 | 37.57 | - | - | 74 | -36.43 | 0-360 | 100 | H |
| 6 | * 3.605 | 34.33 | Pk | 33 | -30.6 | 0 | 36.73 | - | - | 74 | -37.27 | 0-360 | 100 | H |
| 4 | * 4.944 | 35.7 | Pk | 34 | -30.5 | 0 | 39.2 | - | - | 74 | -34.8 | 0-360 | 200 | V |

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

Pk - Peak detector

8.2.2. 802.11b 1Tx MODE IN THE 2.4 GHz BAND CHAIN 1

HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL



DATA

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl /Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 1.266 | 30.23 | Pk | 29.1 | -22.7 | 36.63 | - | - | 74 | -37.37 | 0-360 | 200 | H |
| 3 | * 3.612 | 35.66 | Pk | 33 | -30.5 | 38.16 | - | - | 74 | -35.84 | 0-360 | 200 | H |
| 4 | * 4.216 | 33.72 | Pk | 33.3 | -29.2 | 37.82 | - | - | 74 | -36.18 | 0-360 | 200 | H |
| 5 | * 4.644 | 34.63 | Pk | 33.9 | -30.6 | 37.93 | - | - | 74 | -36.07 | 0-360 | 200 | V |
| 6 | * 5.079 | 33.53 | Pk | 34 | -29.7 | 37.83 | - | - | 74 | -36.17 | 0-360 | 100 | V |
| 2 | 1.432 | 30.66 | Pk | 28.6 | -21.8 | 37.46 | - | - | - | - | 0-360 | 200 | V |

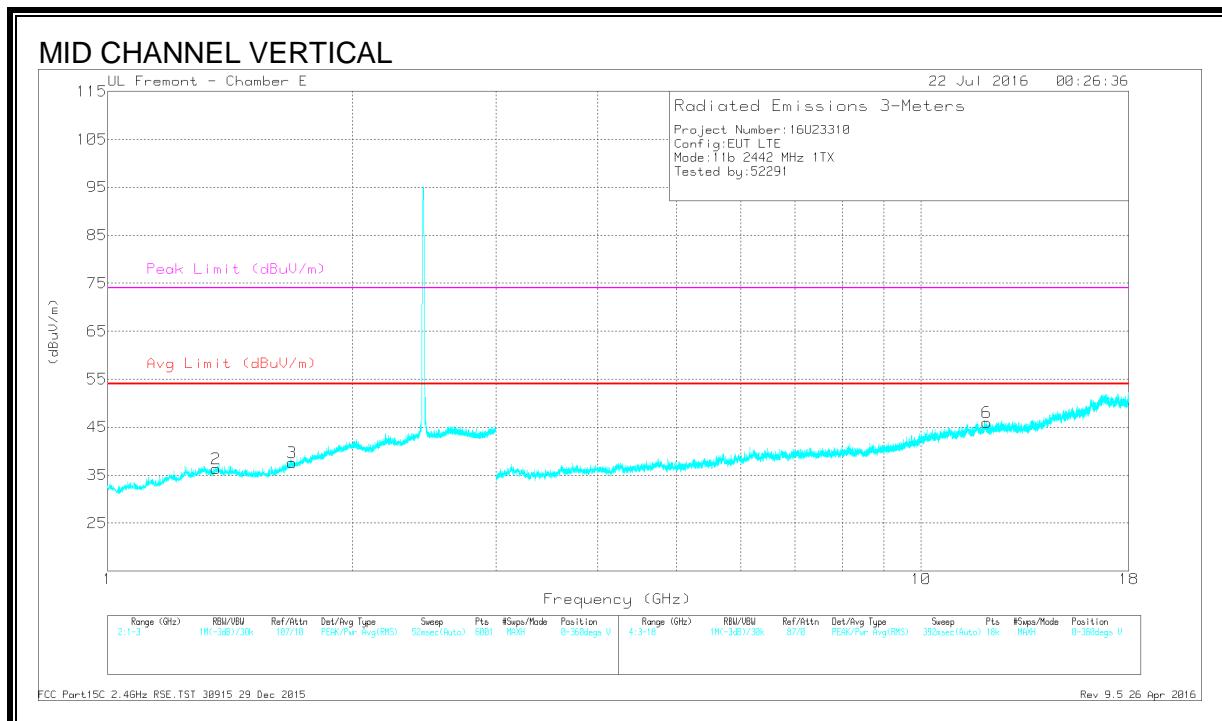
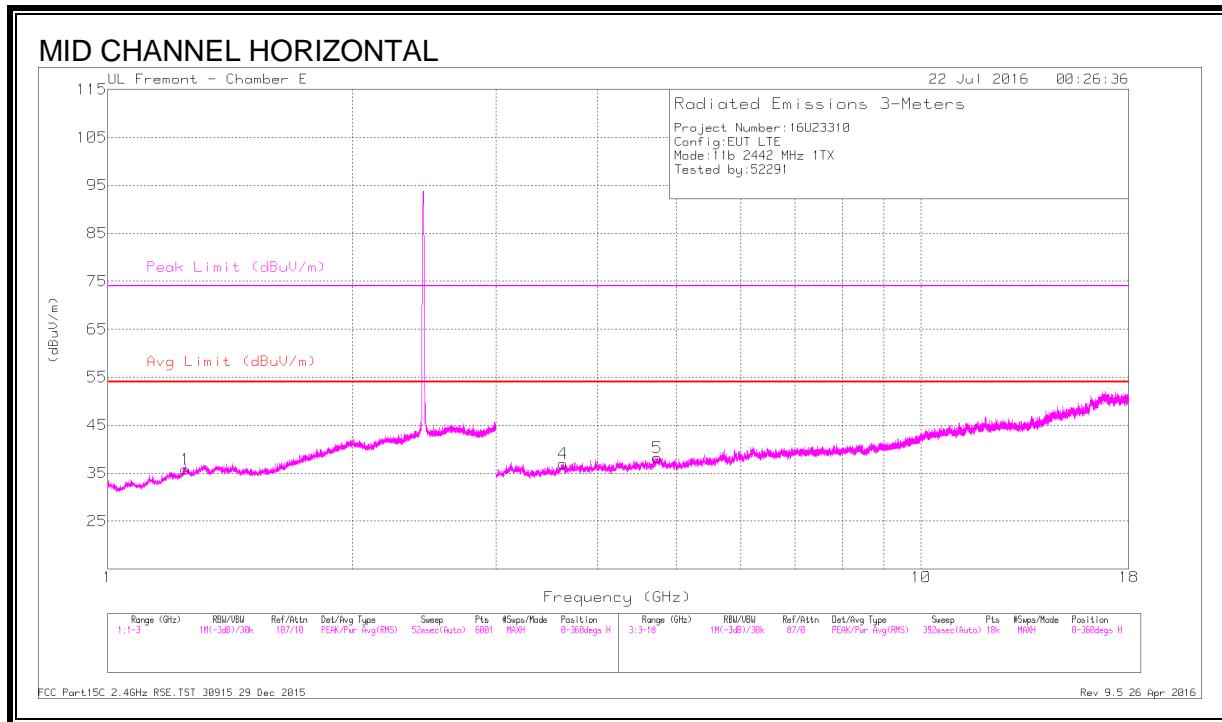
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

FCC Part15C 2.4GHz RSE.TST 30915 29 Dec 2015

Rev 9.5 26 Apr 2016

HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL



DATA

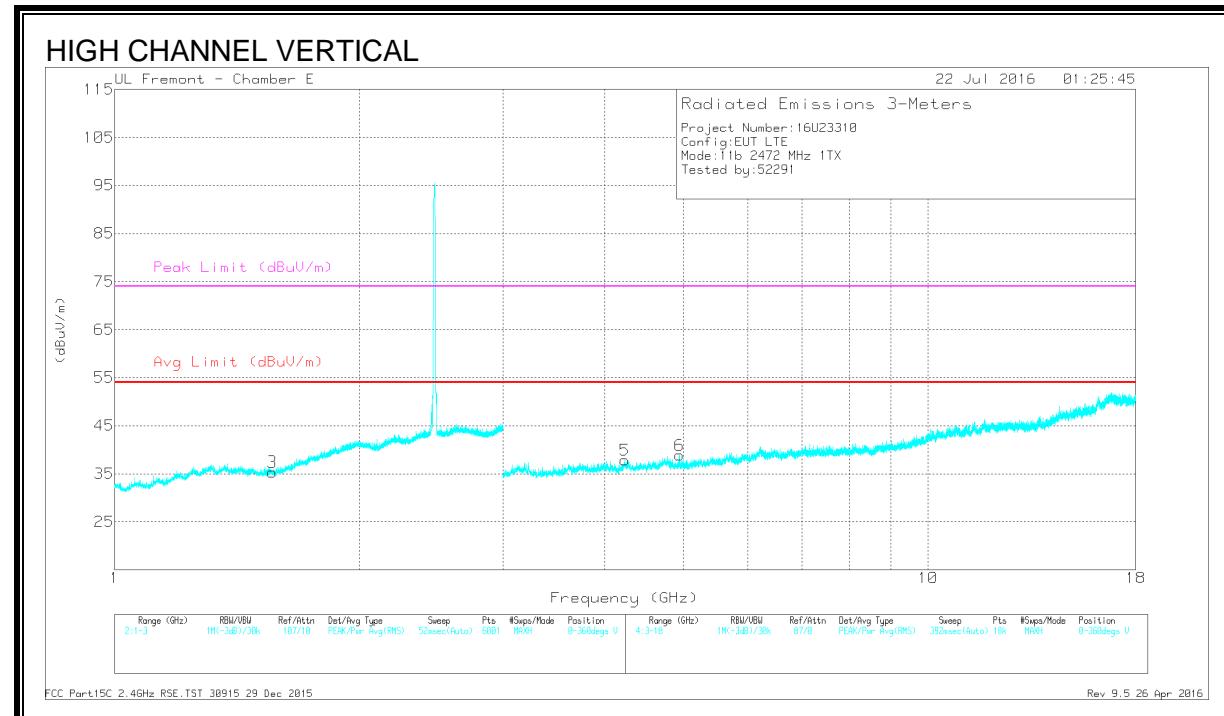
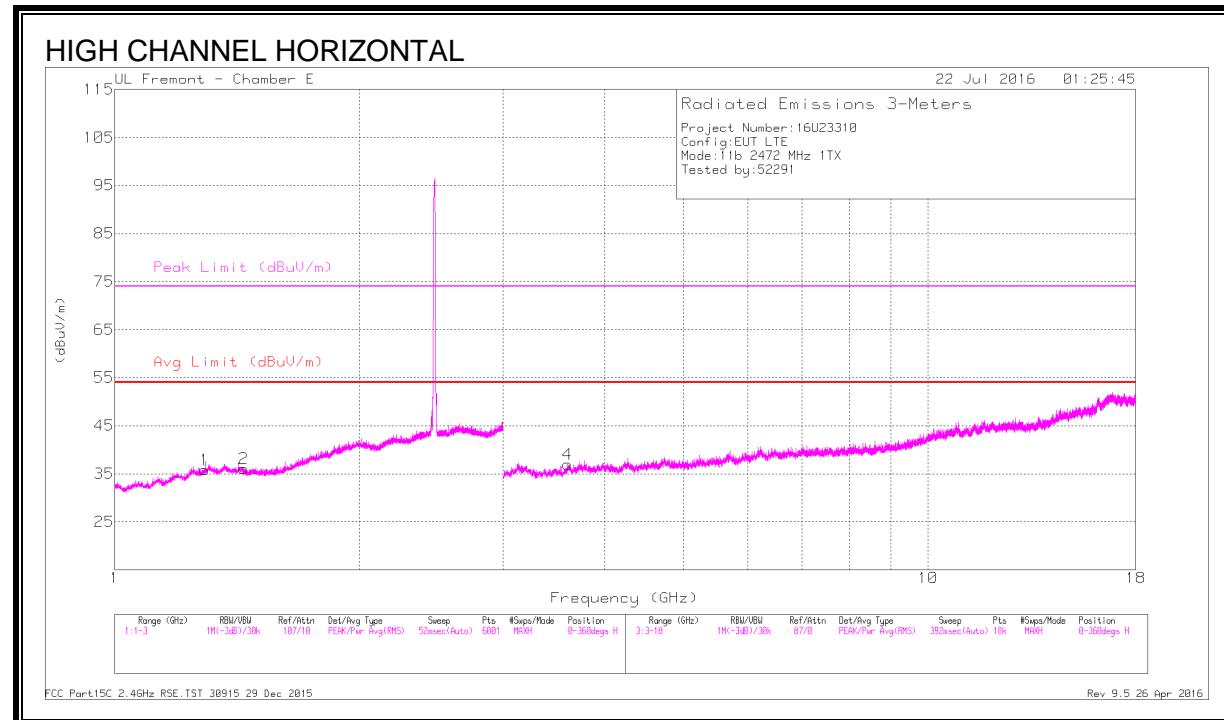
Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/C bl/Fitr/ Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-------------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 1.247 | 29.46 | Pk | 28.9 | -22.5 | 0 | 35.86 | - | - | 74 | -38.14 | 0-360 | 200 | H |
| 2 | * 1.359 | 29.28 | Pk | 29.2 | -22.1 | 0 | 36.38 | - | - | 74 | -37.62 | 0-360 | 100 | V |
| 3 | * 1.686 | 29.72 | Pk | 29 | -21.1 | 0 | 37.62 | - | - | 74 | -36.38 | 0-360 | 200 | V |
| 4 | * 3.627 | 34.43 | Pk | 33 | -30.4 | 0 | 37.03 | - | - | 74 | -36.97 | 0-360 | 100 | H |
| 5 | * 4.742 | 33.38 | Pk | 34 | -29.1 | 0 | 38.28 | - | - | 74 | -35.72 | 0-360 | 100 | H |
| 6 | * 12.04 | 31.18 | Pk | 38.9 | -24.1 | 0 | 45.98 | - | - | 74 | -28.02 | 0-360 | 200 | V |

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

Pk - Peak detecto

HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL



DATA

Trace Markers

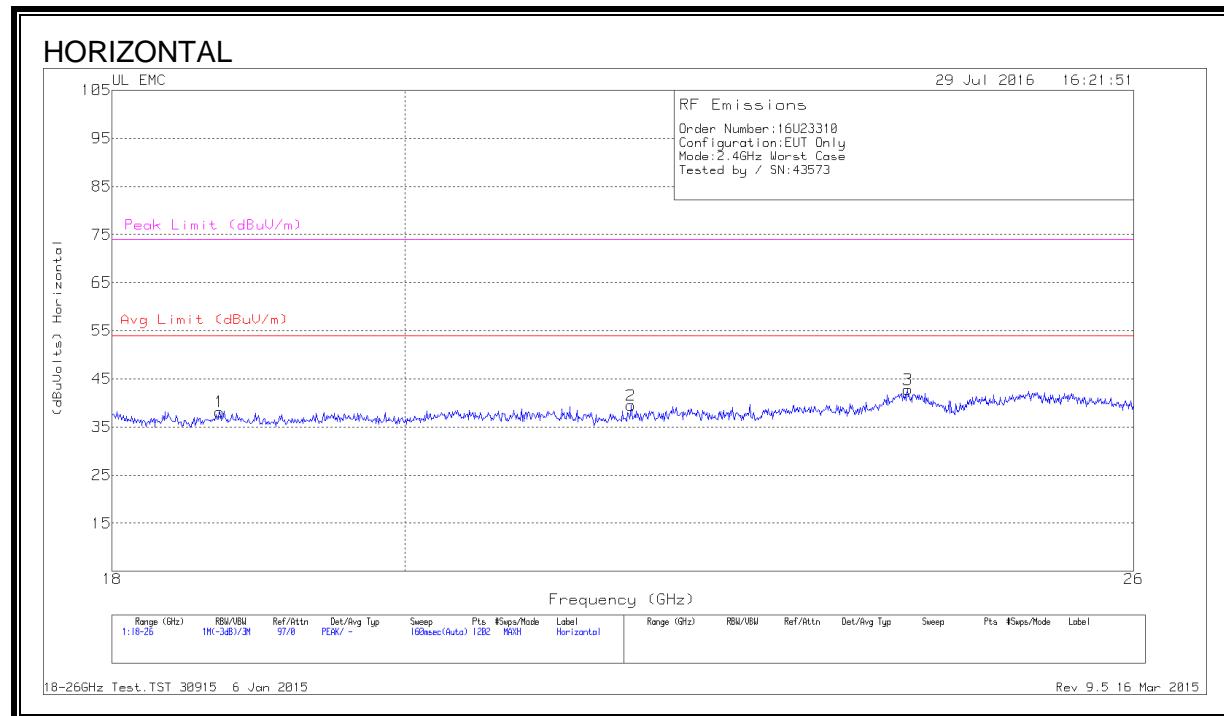
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T711 (dB/m) | Amp/Cbl /Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 1.291 | 28.98 | Pk | 29.3 | -22.5 | 35.78 | - | - | 74 | -38.22 | 0-360 | 200 | H |
| 2 | * 1.44 | 29.32 | Pk | 28.5 | -21.7 | 36.12 | - | - | 74 | -37.88 | 0-360 | 200 | H |
| 3 | * 1.561 | 29.08 | Pk | 27.8 | -21.5 | 35.38 | - | - | 74 | -38.62 | 0-360 | 200 | V |
| 4 | * 3.603 | 34.72 | Pk | 33 | -30.7 | 37.02 | - | - | 74 | -36.98 | 0-360 | 200 | H |
| 5 | * 4.235 | 33.55 | Pk | 33.3 | -29 | 37.85 | - | - | 74 | -36.15 | 0-360 | 100 | V |
| 6 | * 4.944 | 35.42 | Pk | 34 | -30.5 | 38.92 | - | - | 74 | -35.08 | 0-360 | 200 | V |

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

Pk - Peak detector

8.3. WORST-CASE 18 to 26 GHz

SPURIOUS EMISSIONS 18 to 26 GHz



DATA

Trace Markers

| Marker | Frequenc y (GHz) | Meter Reading (dBuV) | Det | AF T449 (dB/m) | Amp/Cbl (dB) | Dist Corr (dB) | Correcte d Reading (dBuVolts) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) |
|--------|------------------|----------------------|-----|----------------|--------------|----------------|-------------------------------|--------------------|-------------|---------------------|----------------|
| 1 | 18.709 | 39.67 | Pk | 32.4 | -24.4 | -9.5 | 38.17 | 54 | -15.83 | 74 | -35.83 |
| 2 | 21.697 | 40.4 | Pk | 33.2 | -24.6 | -9.5 | 39.5 | 54 | -14.5 | 74 | -34.5 |
| 3 | 23.968 | 42.53 | Pk | 34 | -24.2 | -9.5 | 42.83 | 54 | -11.17 | 74 | -31.17 |
| 4 | 19.479 | 40.47 | Pk | 32.7 | -25 | -9.5 | 38.67 | 54 | -15.33 | 74 | -35.33 |
| 5 | 22.623 | 40.1 | Pk | 33.4 | -25 | -9.5 | 39 | 54 | -15 | 74 | -35 |
| 6 | 25.087 | 43.03 | Pk | 34.3 | -24.5 | -9.5 | 43.33 | 54 | -10.67 | 74 | -30.67 |

Pk - Peak detector

Class B 18-26GHz.TST 30915 14 Aug 2014

Rev 9.5 16 Mar 2015