



**FCC 47 CFR PART 15 SUBPART C
INDUSTRY CANADA RSS-210 ISSUE 8**

**C2PC CERTIFICATION TEST REPORT
FOR**

**GSM/CDMA/WCDMA/LTE Phone + Bluetooth, DTS/UNII a/b/g/n/ac and NFC
MODEL NUMBER: LG-VS985, VS985, LGVS985, AS985, LG-AS985 & LGAS985**

**FCC ID: ZNFVS985
IC: 2703C-VS985**

**REPORT NUMBER: 14U17777-2
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Prepared for
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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: LG ELECTRONICS MOBILECOMM U.S.A., INC
EUT DESCRIPTION: GSM/CDMA/WCDMA/LTE Phone + Bluetooth, DTS/UNII a/b/g/n/ac and NFC.
MODEL: LG-VS985, VS985, LGVS985, AS985, LG-AS985 & LGAS985
SERIAL NUMBER: 1873283 (Radiated)
DATE TESTED: MAY 12 - 20, 2014

| APPLICABLE STANDARDS | |
|---|--------------|
| STANDARD | TEST RESULTS |
| CFR 47 Part 15 Subpart C | Pass |
| INDUSTRY CANADA RSS-210 Issue 8 Annex 8 | Pass |
| INDUSTRY CANADA RSS-GEN Issue 3 | 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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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2009, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 3, and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

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, 0.15 to 30 MHz | 3.52 dB |
| Radiated Disturbance, 30 to 18000 MHz | 4.94 dB |

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM/CDMA/WCDMA/LTE Phone + Bluetooth, DTS/UNII a/b/g/n/ac and NFC.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak conducted output power as follows:

| Frequency Range (MHz) | Mode | Output Power (dBm) | Output Power (mW) |
|-----------------------|---------------|--------------------|-------------------|
| 2402 - 2480 | Basic GFSK | 7.66 | 5.83 |
| 2402 - 2480 | Enhanced 8PSK | 8.02 | 6.34 |

Note: GFSK, Pi/4-DQPSK, 8PSK average Power are all investigated, The GFSK & 8PSK Power are the worst case. Testing is based on this mode to showing compliance. For average power data please refer to section 8.6.

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of -1.74 dBi.

5.4. WORST-CASE CONFIGURATION AND MODE

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

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

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

| Support Equipment List | | | | |
|------------------------|--------------|-----------|---------------|--------|
| Description | Manufacturer | Model | Serial Number | FCC ID |
| AC Adapter | LG | MCS-04WT2 | TA350000050 | N/A |
| Earphone | LG | N/A | N/A | N/A |
| Smart Cover | LG | N/A | N/A | N/A |
| | | | | |

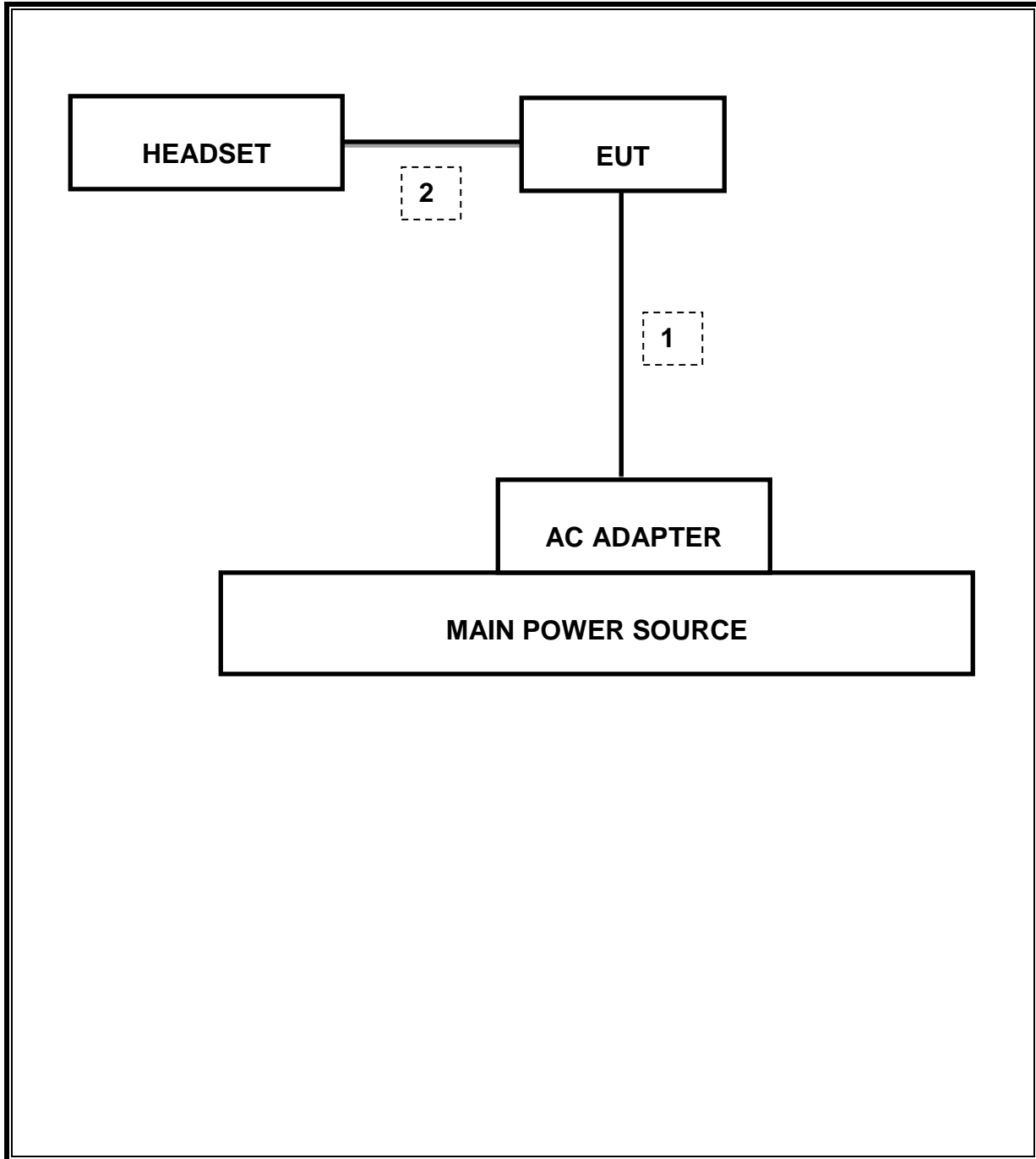
I/O CABLES

| I/O Cable List | | | | | | |
|----------------|----------|----------------------|----------------|------------|------------------|---------|
| Cable No | Port | # of identical ports | Connector Type | Cable Type | Cable Length (m) | Remarks |
| 1 | DC Power | 1 | Mini-USB | Shielded | 1.2m | N/A |
| 2 | Audio | 1 | Mini-Jack | Unshielded | 1m | N/A |

TEST SETUP

The EUT is continuously communicating to the Bluetooth tester during the tests. EUT was set in the Hidden menu mode to enable BT communications.

SETUP DIAGRAM FOR TESTS



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 |
| Antenna, Biconolog, 30MHz-1 GHz | Sunol Sciences | JB1 | C01171 | 02/13/15 |
| Antenna, Horn, 18GHz | EMCO | 3115 | C00783 | 10/25/14 |
| Antenna, Horn, 25.5 GHz | ARA | MWH-1826/B | C00980 | 11/14/14 |
| Preamplifier, 1300 MHz | Agilent / HP | 8447D | C00580 | 01/28/15 |
| Preamplifier, 26.5 GHz | Agilent / HP | 8449B | C01052 | 10/22/14 |
| Spectrum Analyzer, 44 GHz | Agilent / HP | E4446A | C01069 | 12/20/14 |
| CBT Bluetooth Tester | R & S | CBT | None | 07/12/14 |
| Peak Power Meter | Agilent / HP | E4416A | C00963 | 12/13/14 |
| Peak / Average Power Sensor | Agilent / HP | E9327A | C00964 | 12/13/14 |
| LISN, 30 MHz | FCC | 50/250-25-2 | C00626 | 01/14/15 |
| Reject Filter, 2.4GHz | Micro-Tronics | BRM50702 | N02684 | CNR |

7. SUMMARY TABLE

| FCC Part Section | RSS Section(s) | Test Description | Test Limit | Test Condition | Test Result | Worst Case |
|--------------------|--------------------------------------|---|---------------------------------------|----------------|-------------|--------------|
| 2.1049 | RSS-GEN 4.6 | Occupied Band width (99%) | N/A | Conducted | Pass | see original |
| 2.1051, 15.247 (d) | RSS-210 A8.5 | Band Edge / Conducted Spurious Emission | -20dBc | | Pass | see original |
| 15.247 (b)(1) | RSS-210 A8.4 | TX conducted output power | <21dBm | | Pass | see original |
| 15.247 (a)(1) | RSS-210 A8.1(b) | Hopping frequency separation | > 25KHz | | Pass | see original |
| 15.247 (a)(1)(iii) | RSS-210 A8.1(d) | Number of Hopping channels | More than 15 non-overlapping channels | | Pass | see original |
| 15.247 (a)(1)(iii) | RSS-210 A8.1(d) | Avg Time of Occupancy | < 0.4sec | | Pass | see original |
| 15.207 (a) | RSS-GEN 7.2.2 | AC Power Line conducted emissions | Section 10 | Radiated | Pass | see original |
| 15.205, 15.209 | RSS-210 Clause 2.6, RSS-210 Clause 6 | Radiated Spurious Emission | < 54dBuV/m | | Pass | 44.93dBuV/m |

8. RADIATED TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-210 Clause 2.6 (Transmitter)

IC RSS-GEN Clause 6 (Receiver)

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

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For band edge measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 1/T (on time) for average measurement. GFSK = 1/T = 1 / 0.0029S = 344Hz.

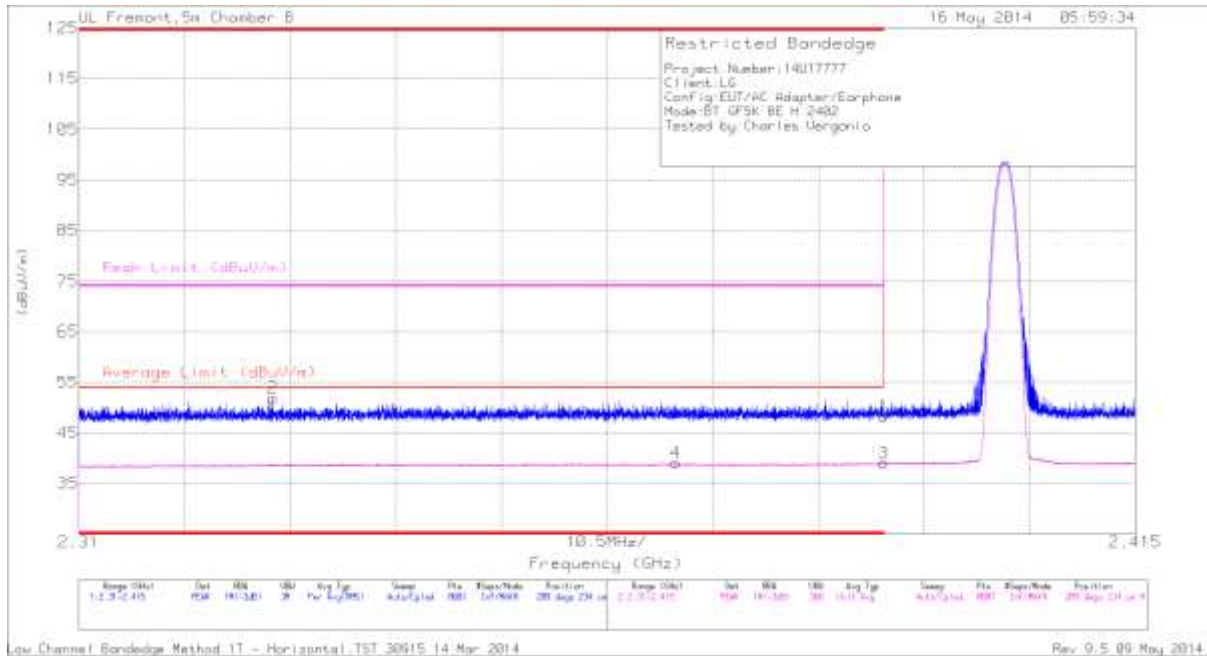
The spectrum from 1GHzHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

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. BASIC DATA RATE GFSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



Trace Markers

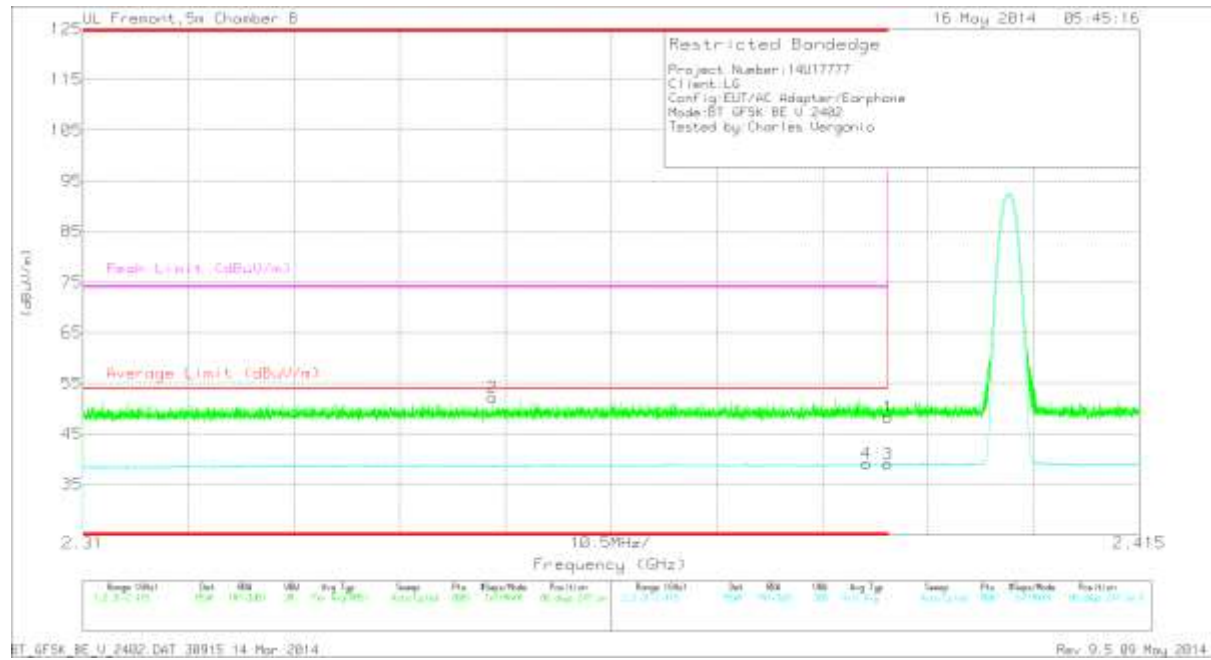
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/FI tr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.39 | 39.02 | PK | 32.1 | -22.8 | 0 | 48.32 | - | - | 74 | -25.68 | 289 | 234 | H |
| 2 | * 2.329 | 43 | PK | 31.8 | -22.9 | 0 | 51.9 | - | - | 74 | -22.1 | 289 | 234 | H |
| 3 | * 2.39 | 29.67 | VB1T | 32.1 | -22.8 | 0 | 38.97 | 54 | -15.03 | - | - | 289 | 234 | H |
| 4 | * 2.369 | 29.94 | VB1T | 32 | -22.8 | 0 | 39.14 | 54 | -14.86 | - | - | 289 | 234 | H |

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

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



Trace Markers

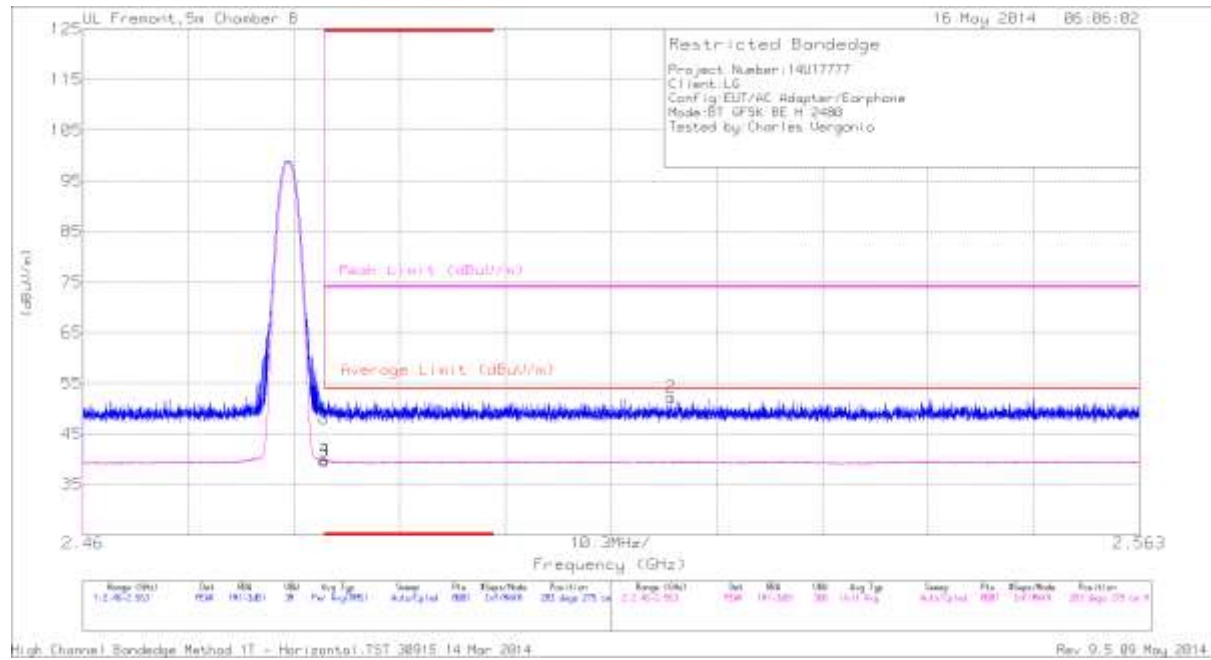
| Marker | Frequenc y (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cb/FI tr/Pad (dB) | DC Corr (dB) | Correcte d Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|---------------------|----------------------------|------|-------------------|--------------------------|-----------------|--------------------------------------|------------------------------|----------------|------------------------|----------------------|-------------------|----------------|----------|
| 1 | * 2.39 | 38.95 | PK | 32.1 | -22.8 | 0 | 48.25 | - | - | 74 | -25.75 | 86 | 247 | V |
| 2 | * 2.351 | 43.12 | PK | 31.9 | -22.9 | 0 | 52.12 | - | - | 74 | -21.88 | 86 | 247 | V |
| 3 | * 2.39 | 29.69 | VB1T | 32.1 | -22.8 | 0 | 38.99 | 54 | -15.01 | - | - | 86 | 247 | V |
| 4 | * 2.388 | 29.86 | VB1T | 32.1 | -22.8 | 0 | 39.16 | 54 | -14.84 | - | - | 86 | 247 | V |

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

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEGE (HIGH CHANNEL, HORIZONTAL)



High Channel Bandedge Method 1T - Horizontal.TST 38915 14 Mar 2014

Rev: 0.5 09 May 2014

Trace Markers

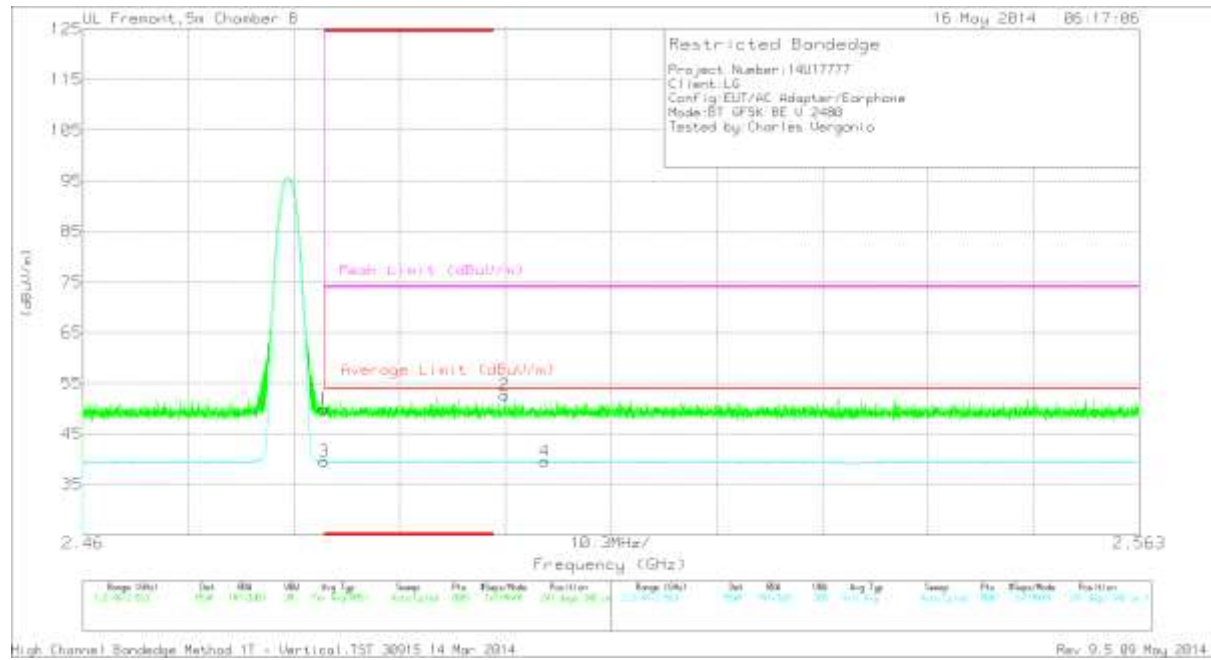
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cb/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.484 | 38.42 | PK | 32.4 | -22.7 | 0 | 48.12 | - | - | 74 | -25.88 | 283 | 275 | H |
| 3 | * 2.484 | 29.97 | VB1T | 32.4 | -22.7 | 0 | 39.67 | 54 | -14.33 | - | - | 283 | 275 | H |
| 4 | * 2.484 | 30.18 | VB1T | 32.4 | -22.7 | 0 | 39.88 | 54 | -14.12 | - | - | 283 | 275 | H |
| 2 | 2.517 | 42.32 | PK | 32.5 | -22.6 | 0 | 52.22 | - | - | 74 | -21.78 | 283 | 275 | H |

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

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEGE (HIGH CHANNEL, VERTICAL)



Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cb/Filter/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 | * 2.484 | 40.26 | PK | 32.4 | -22.7 | 0 | 49.96 | - | - | 74 | -24.04 | 241 | 348 | V |
| 3 | * 2.484 | 29.96 | VB1T | 32.4 | -22.7 | 0 | 39.66 | 54 | -14.34 | - | - | 241 | 348 | V |
| 2 | 2.501 | 42.94 | PK | 32.4 | -22.7 | 0 | 52.64 | - | - | 74 | -21.36 | 241 | 348 | V |
| 4 | 2.505 | 29.96 | VB1T | 32.4 | -22.7 | 0 | 39.66 | 54 | -14.34 | - | - | 241 | 348 | V |

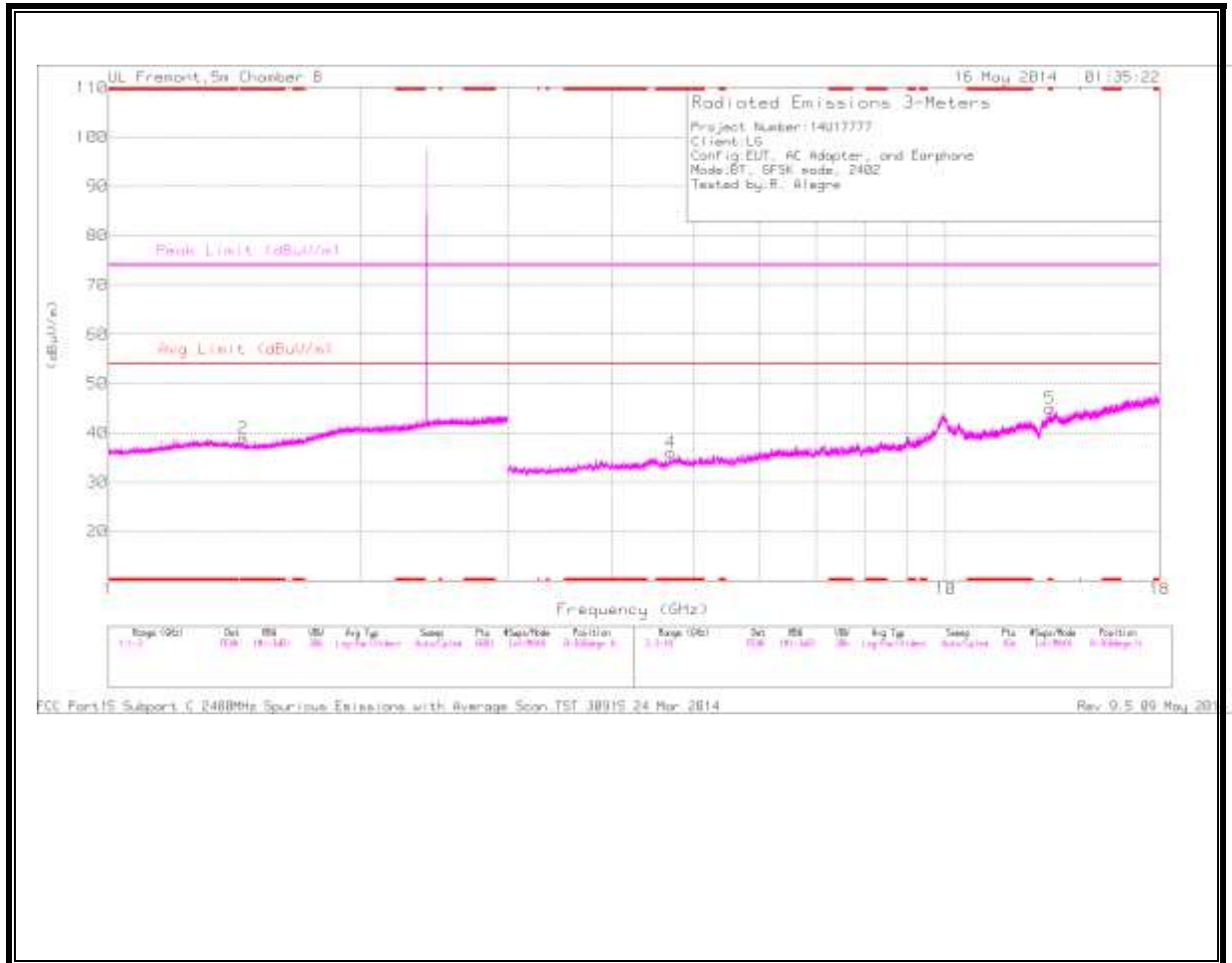
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

HARMONICS AND SPURIOUS EMISSIONS

**LOW CHANNEL
HORIZONTAL**



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA
 Trace Markers

| Marker | Frequenc y (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fi tr/Pad (dB) | DC Corr (dB) | Correcte d Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|---------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------|----------------|----------|
| 2 | * 1.45 | 35 | PK | 28.2 | -24.3 | 0 | 38.9 | - | - | 74 | -35.1 | 0-360 | 202 | H |
| 1 | * 1.55 | 35.09 | PK | 28.2 | -24.1 | 0 | 39.19 | - | - | 74 | -34.81 | 0-360 | 202 | V |
| 4 | * 4.689 | 31.72 | PK | 34.2 | -29.9 | 0 | 36.02 | - | - | 74 | -37.98 | 0-360 | 99 | H |
| 5 | * 13.31 | 26.9 | PK | 39.3 | -21.3 | 0 | 44.9 | - | - | 74 | -29.1 | 0-360 | 202 | H |
| 3 | 5.335 | 30.47 | PK | 34.5 | -28.7 | 0 | 36.27 | - | - | - | - | 0-360 | 99 | V |
| 6 | 9.887 | 30.71 | PK | 37 | -23.7 | 0 | 44.01 | - | - | - | - | 0-360 | 99 | V |

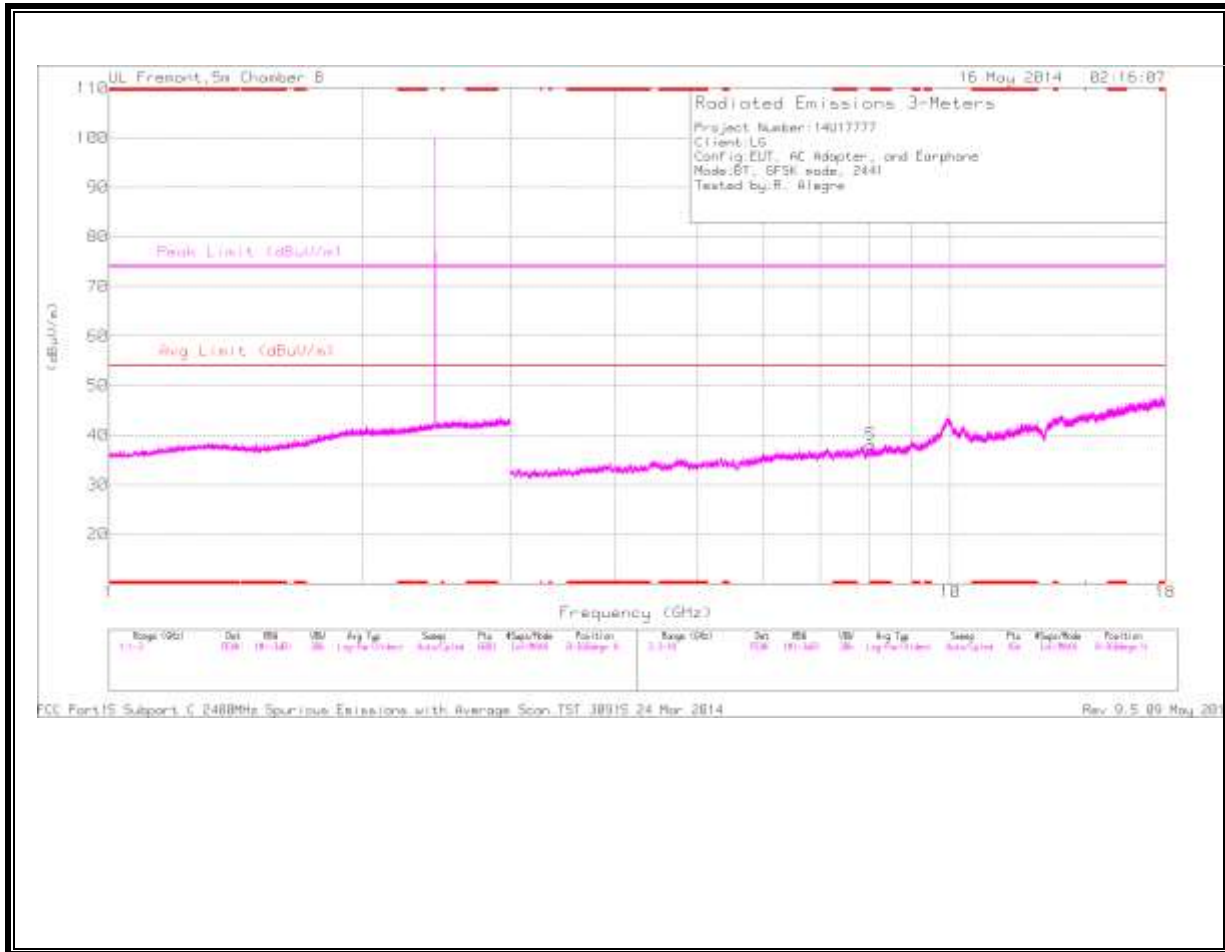
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
 PK - Peak detector

Radiated Emissions

| Frequen cy (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl /Fitr/Pad (dB) | Correcte d Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|------------------------|----------------------------|------|-------------------|------------------------------|--|------------------------------|----------------|-------------------------------|----------------------|-------------------|----------------|----------|
| * 1.55 | 43.89 | PK3 | 28.2 | -24.1 | 47.99 | - | - | 74 | -26.01 | 1 | 204 | V |
| * 13.31 | 34.91 | PK3 | 39.3 | -21.3 | 52.91 | - | - | 74 | -21.09 | 1 | 204 | H |
| * 13.31 | 22.04 | VB1T | 39.3 | -21.3 | 41.24 | 54 | -12.76 | - | - | 1 | 204 | H |
| * 4.69 | 40.5 | PK3 | 34.2 | -29.9 | 44.8 | - | - | 74 | -29.2 | 1 | 100 | H |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
 PK3 - FHSS Method: Maximum Peak
 VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

MID CHANNEL
HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

| Marker | Frequenc y (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Correcte d Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|------------------|----------------------|-----|----------------|------------------------|--------------|-----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 1.55 | 34.86 | PK | 28.2 | -24.1 | 0 | 38.96 | - | - | 74 | -35.04 | 0-360 | 202 | V |
| 2 | * 1.319 | 34.68 | PK | 28.8 | -24.5 | 0 | 38.98 | - | - | 74 | -35.02 | 0-360 | 202 | V |
| 5 | * 8.053 | 28.51 | PK | 35.7 | -26.2 | 0 | 38.01 | - | - | 74 | -35.99 | 0-360 | 202 | H |
| 3 | * 3.817 | 31.78 | PK | 33.7 | -30.6 | 0 | 34.88 | - | - | 74 | -39.12 | 0-360 | 99 | V |
| 4 | * 11.14 | 26.6 | PK | 37.8 | -22.3 | 0 | 42.1 | - | - | 74 | -31.9 | 0-360 | 202 | V |
| 6 | 9.908 | 30.37 | PK | 37 | -23.6 | 0 | 43.77 | - | - | - | - | 0-360 | 99 | V |

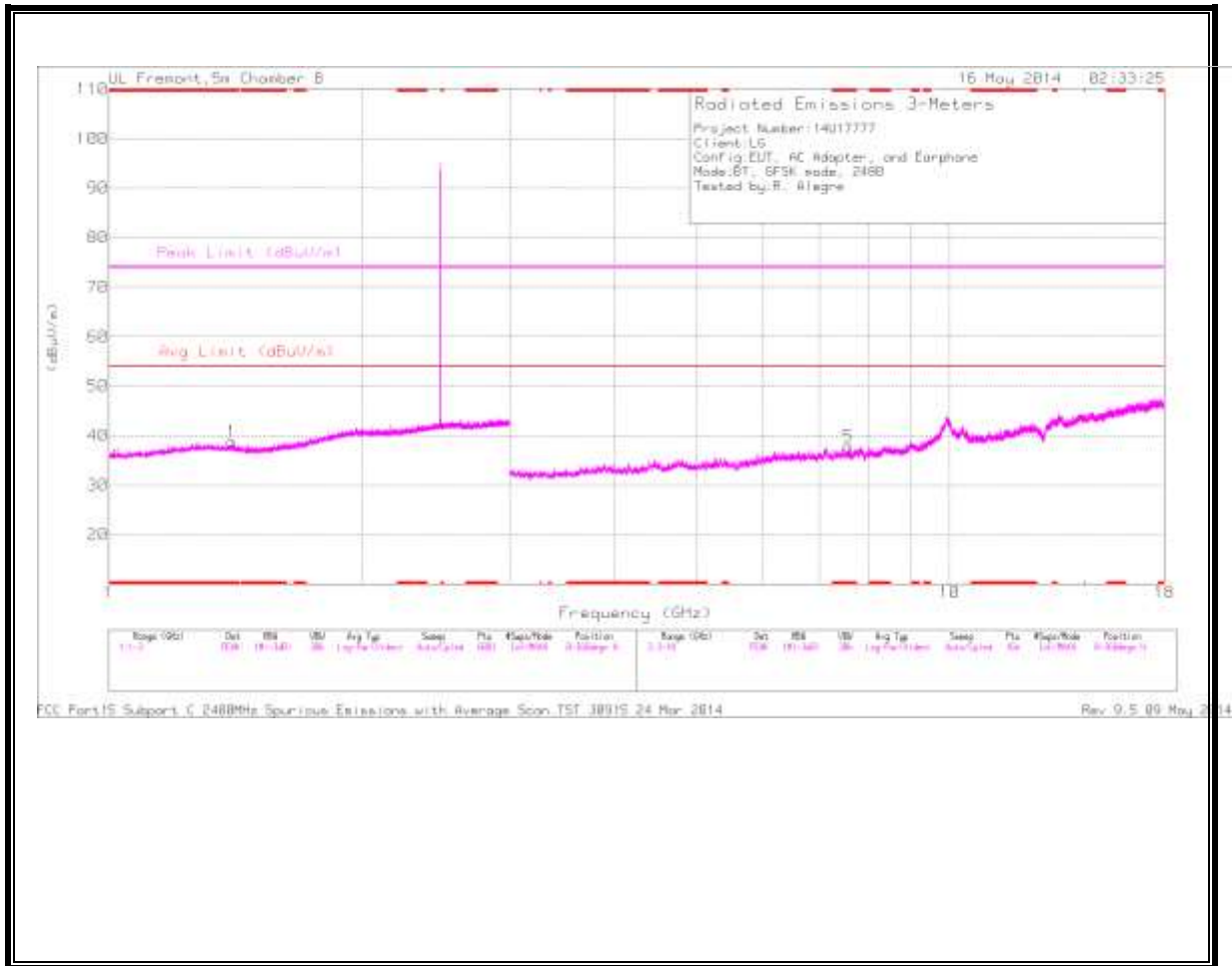
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
 PK - Peak detector

Radiated Emissions

| Frequen cy (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl /Filtr/Pad (dB) | Correcte d Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|------------------|----------------------|------|----------------|-------------------------|------------------------------|---------------------|-------------|----------------------|----------------|----------------|-------------|----------|
| * 1.318 | 43.76 | PK3 | 28.8 | -24.5 | 48.06 | - | - | 74 | -25.94 | 1 | 204 | V |
| * 8.055 | 24.17 | VB1T | 35.7 | -26.2 | 33.67 | 54 | -20.33 | - | - | 1 | 204 | H |
| * 8.054 | 38.04 | PK3 | 35.7 | -26.2 | 47.54 | - | - | 74 | -26.46 | 1 | 204 | H |
| * 11.14 | 34.52 | PK3 | 37.8 | -22.3 | 50.02 | - | - | 74 | -23.98 | 1 | 204 | V |
| * 11.139 | 21.72 | VB1T | 37.8 | -22.2 | 38.52 | 54 | -15.48 | - | - | 1 | 204 | V |
| * 3.819 | 41.18 | PK3 | 33.7 | -30.6 | 44.28 | - | - | 74 | -29.72 | 1 | 100 | V |
| * 11.14 | 34.93 | PK3 | 37.8 | -22.3 | 50.43 | - | - | 74 | -23.57 | 1 | 204 | V |
| * 11.139 | 21.85 | VB1T | 37.8 | -22.2 | 38.65 | 54 | -15.35 | - | - | 1 | 204 | V |
| 9.91 | 38.7 | PK3 | 37 | -23.6 | 52.1 | - | - | - | - | 1 | 100 | V |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
 PK3 - FHSS Method: Maximum Peak
 VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

HIGH CHANNEL
HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA
 Trace Markers

| Marker | Frequenc y (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fi tr/Pad (dB) | DC Corr (dB) | Correcte d Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|---------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------|----------------|----------|
| 1 | * 1.401 | 34.69 | PK | 28.5 | -24.4 | 0 | 38.79 | - | - | 74 | -35.21 | 0-360 | 99 | H |
| 2 | * 1.212 | 34.74 | PK | 28.3 | -24.6 | 0 | 38.44 | - | - | 74 | -35.56 | 0-360 | 99 | V |
| 5 | * 7.572 | 29.37 | PK | 35.6 | -27.2 | 0 | 37.77 | - | - | 74 | -36.23 | 0-360 | 99 | H |
| 3 | * 4.753 | 31.06 | PK | 34.2 | -29.3 | 0 | 35.96 | - | - | 74 | -38.04 | 0-360 | 202 | V |
| 4 | * 3.907 | 31.18 | PK | 33.8 | -30.3 | 0 | 34.68 | - | - | 74 | -39.32 | 0-360 | 202 | V |
| 6 | 13.556 | 26.04 | PK | 38.9 | -20.1 | 0 | 44.84 | - | - | - | - | 0-360 | 202 | V |

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

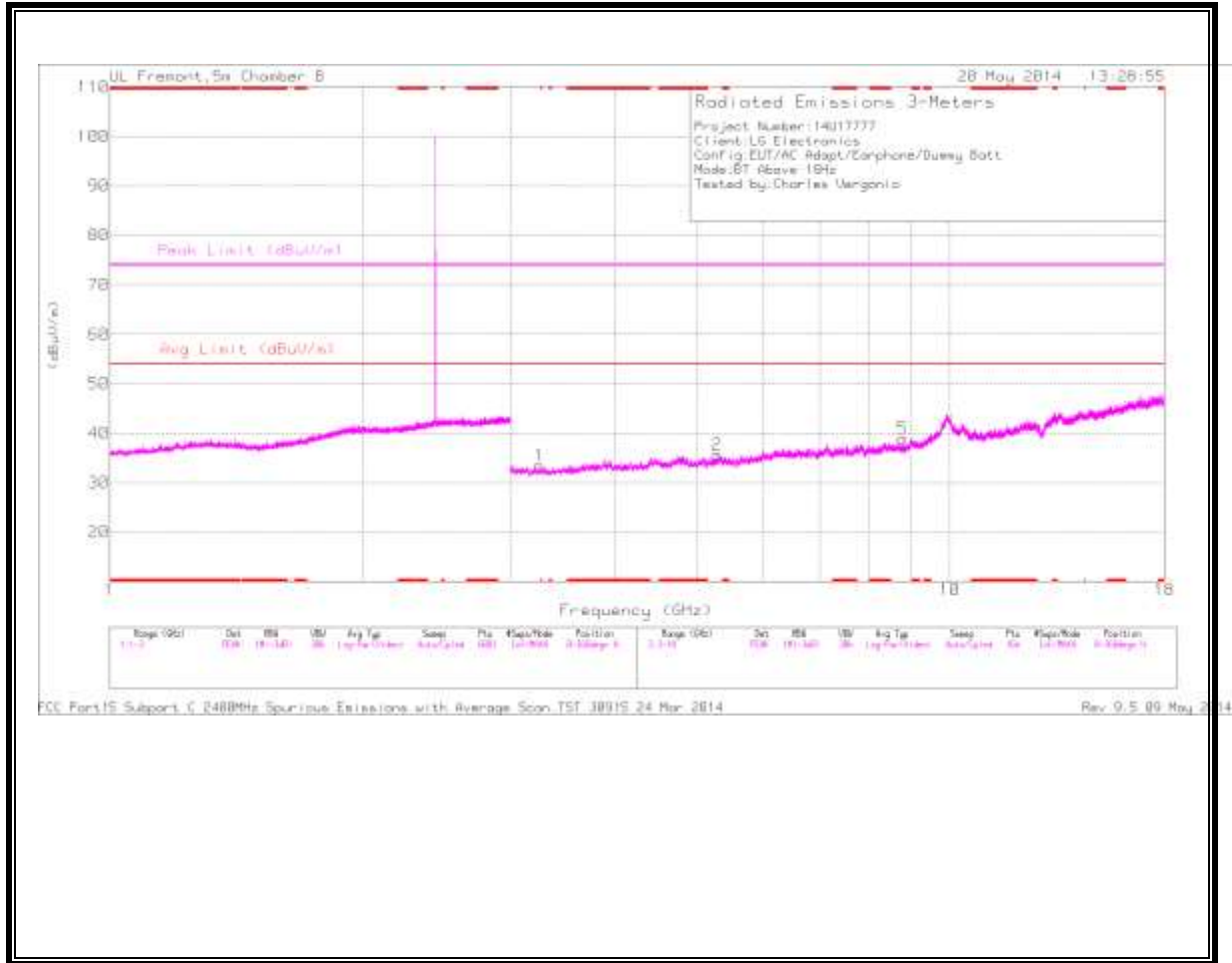
Radiated Emissions

| Frequen cy (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl /Fitr/Pad (dB) | Correcte d Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|------------------------|----------------------------|------|-------------------|------------------------------|--|------------------------------|----------------|-------------------------------|----------------------|-------------------|----------------|----------|
| * 1.211 | 44.25 | PK3 | 28.3 | -24.6 | 47.95 | - | - | 74 | -26.05 | 1 | 100 | V |
| * 7.571 | 38.9 | PK3 | 35.6 | -27.2 | 47.3 | - | - | 74 | -26.7 | 1 | 100 | H |
| * 4.752 | 40.12 | PK3 | 34.2 | -29.3 | 45.02 | - | - | 74 | -28.98 | 1 | 204 | V |
| * 4.753 | 27.13 | VB1T | 34.2 | -29.3 | 33.23 | 54 | -20.77 | - | - | 1 | 204 | V |
| * 3.907 | 40.14 | PK3 | 33.8 | -30.3 | 43.64 | - | - | 74 | -30.36 | 1 | 204 | V |

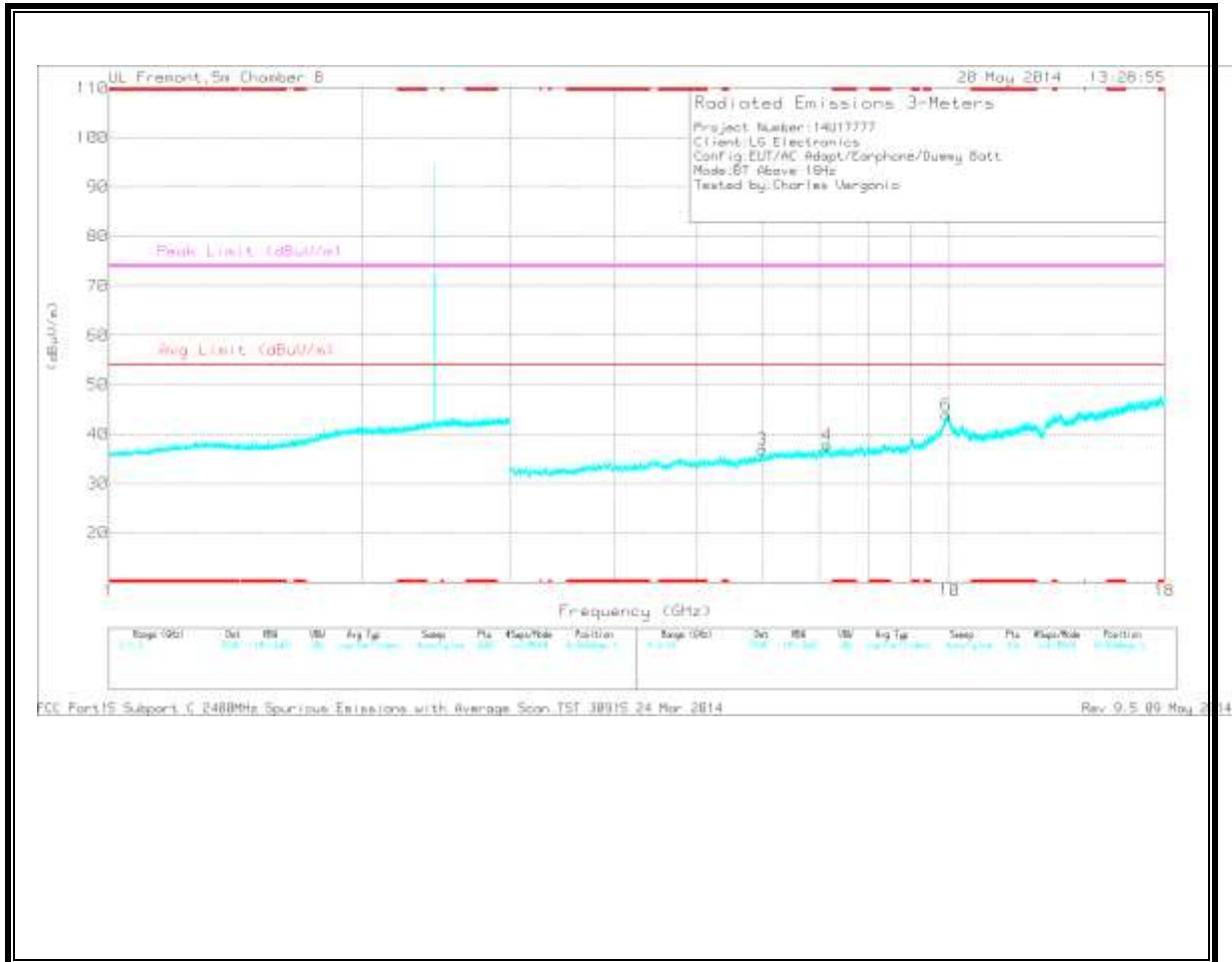
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
 PK3 - FHSS Method: Maximum Peak
 VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

WORST CASE HARMONICS AND SPURIOUS EMISSIONS WITH SMART COVER

HORIZONTAL



VERTICAL



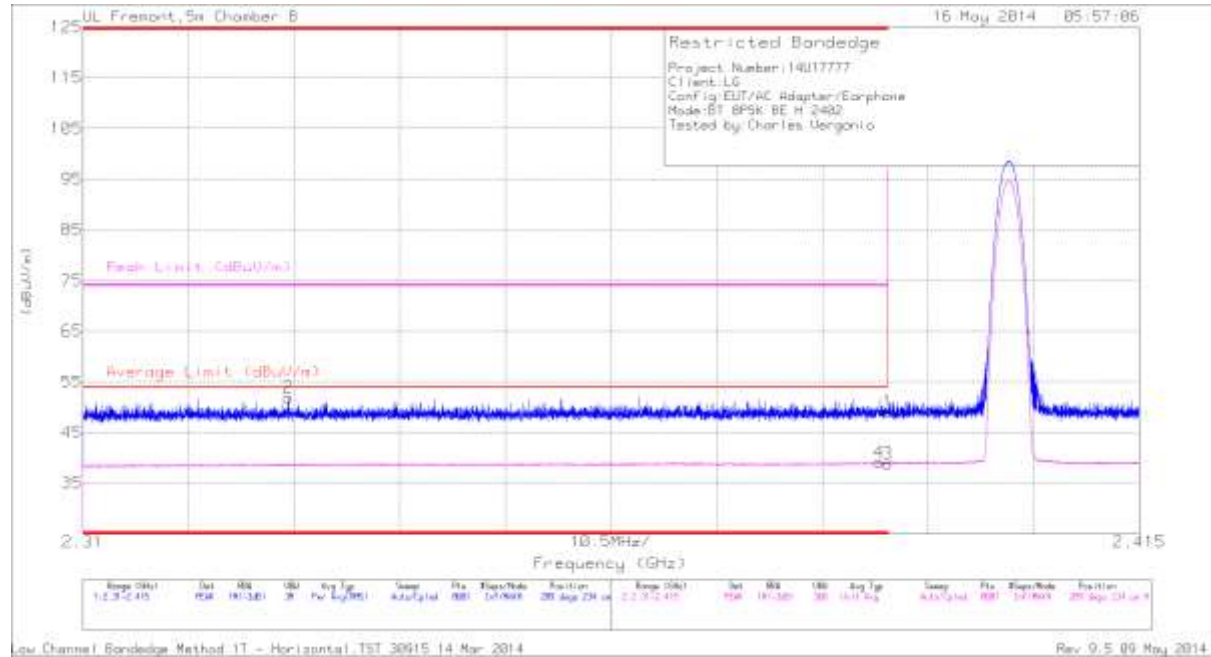
CHANNEL DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/F ltr/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 | 3.248 | 31.99 | PK | 32.8 | -31.3 | 33.49 | - | - | - | - | 0-360 | 202 | H |
| 2 | 5.284 | 30.85 | PK | 34.4 | -29.6 | 35.65 | - | - | - | - | 0-360 | 99 | H |
| 3 | 5.985 | 30.23 | PK | 35.2 | -28.5 | 36.93 | - | - | - | - | 0-360 | 99 | V |
| 4 | 7.149 | 29.08 | PK | 35.6 | -26.9 | 37.78 | - | - | - | - | 0-360 | 99 | V |
| 5 | 8.789 | 28.11 | PK | 36 | -25.2 | 38.91 | - | - | - | - | 0-360 | 99 | H |
| 6 | 9.909 | 30.52 | PK | 37 | -23.6 | 43.92 | - | - | - | - | 0-360 | 99 | V |

PK - Peak detector

8.2.2. ENHANCED DATA RATE 8PSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



Trace Markers

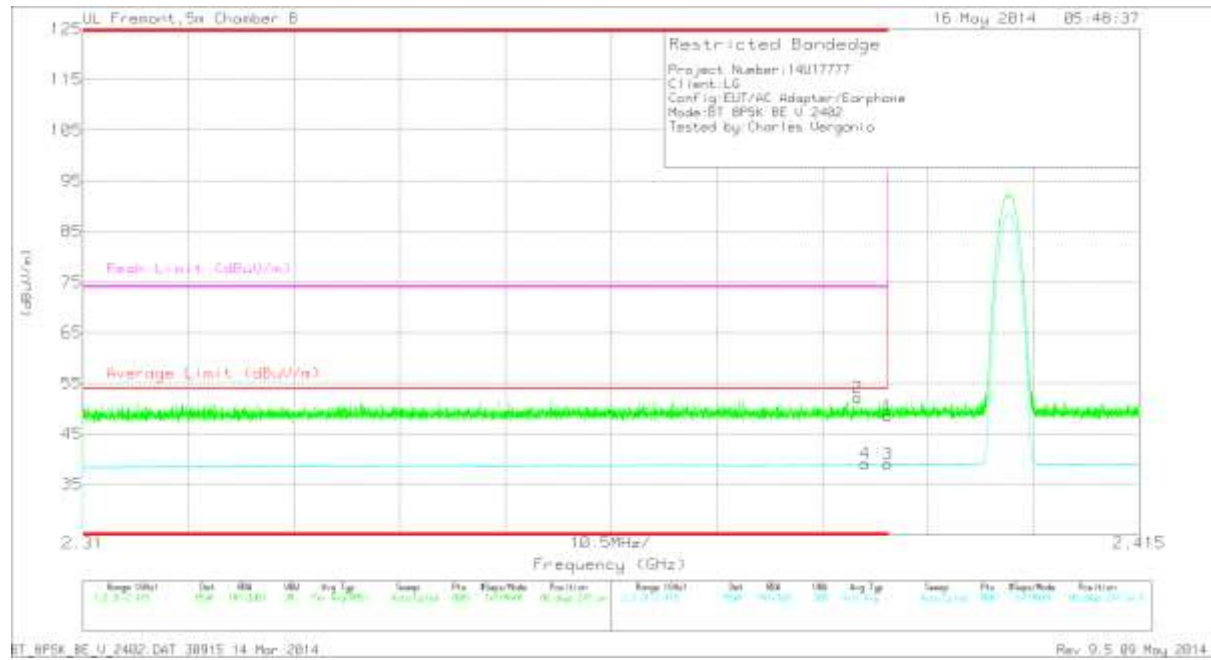
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cb/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.39 | 39.84 | PK | 32.1 | -22.8 | 0 | 49.14 | - | - | 74 | -24.86 | 289 | 234 | H |
| 2 | * 2.33 | 43.04 | PK | 31.8 | -22.9 | 0 | 51.94 | - | - | 74 | -22.06 | 289 | 234 | H |
| 3 | * 2.39 | 29.62 | VB1T | 32.1 | -22.8 | 0 | 38.92 | 54 | -15.08 | - | - | 289 | 234 | H |
| 4 | * 2.389 | 29.82 | VB1T | 32.1 | -22.8 | 0 | 39.12 | 54 | -14.88 | - | - | 289 | 234 | H |

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

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEGE (LOW CHANNEL, VERTICAL)



Trace Markers

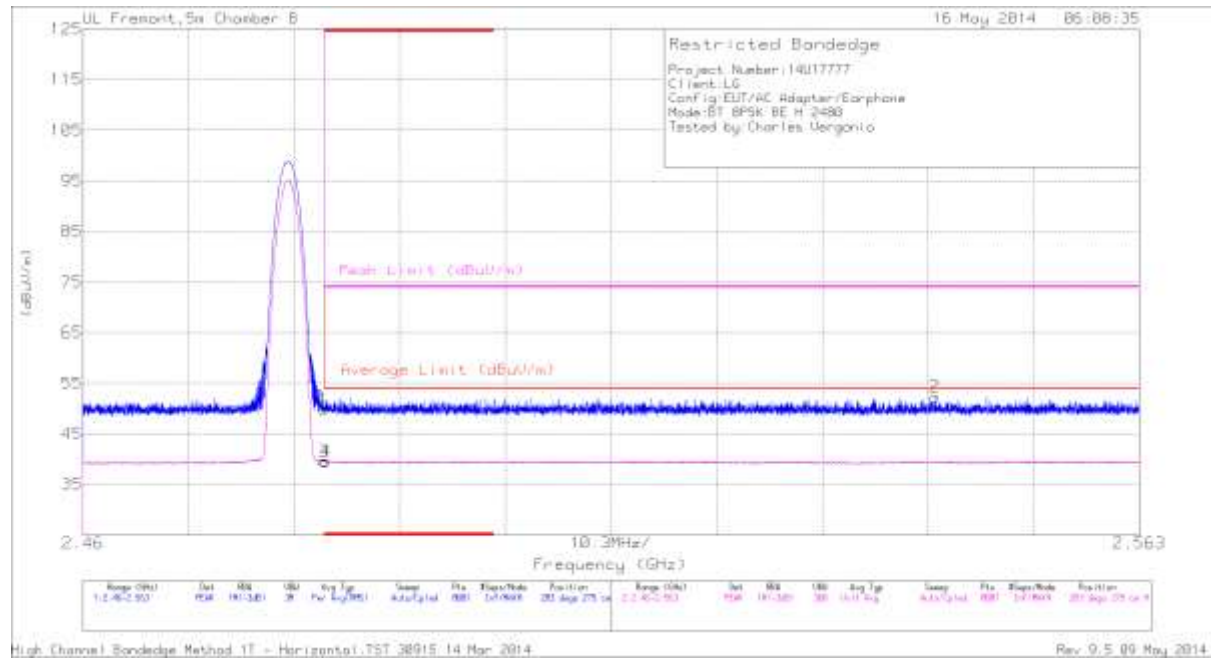
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cb/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.39 | 39.21 | PK | 32.1 | -22.8 | 0 | 48.51 | - | - | 74 | -25.49 | 86 | 247 | V |
| 2 | * 2.387 | 42.82 | PK | 32.1 | -22.8 | 0 | 52.12 | - | - | 74 | -21.88 | 86 | 247 | V |
| 3 | * 2.39 | 29.71 | VB1T | 32.1 | -22.8 | 0 | 39.01 | 54 | -14.99 | - | - | 86 | 247 | V |
| 4 | * 2.388 | 29.8 | VB1T | 32.1 | -22.8 | 0 | 39.1 | 54 | -14.9 | - | - | 86 | 247 | V |

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

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEGE (HIGH CHANNEL, HORIZONTAL)



High Channel Bandedge Method 1T - Horizontal.TST 38915 14 Mar 2014

Rev. 0.5 09 May 2014

Trace Markers

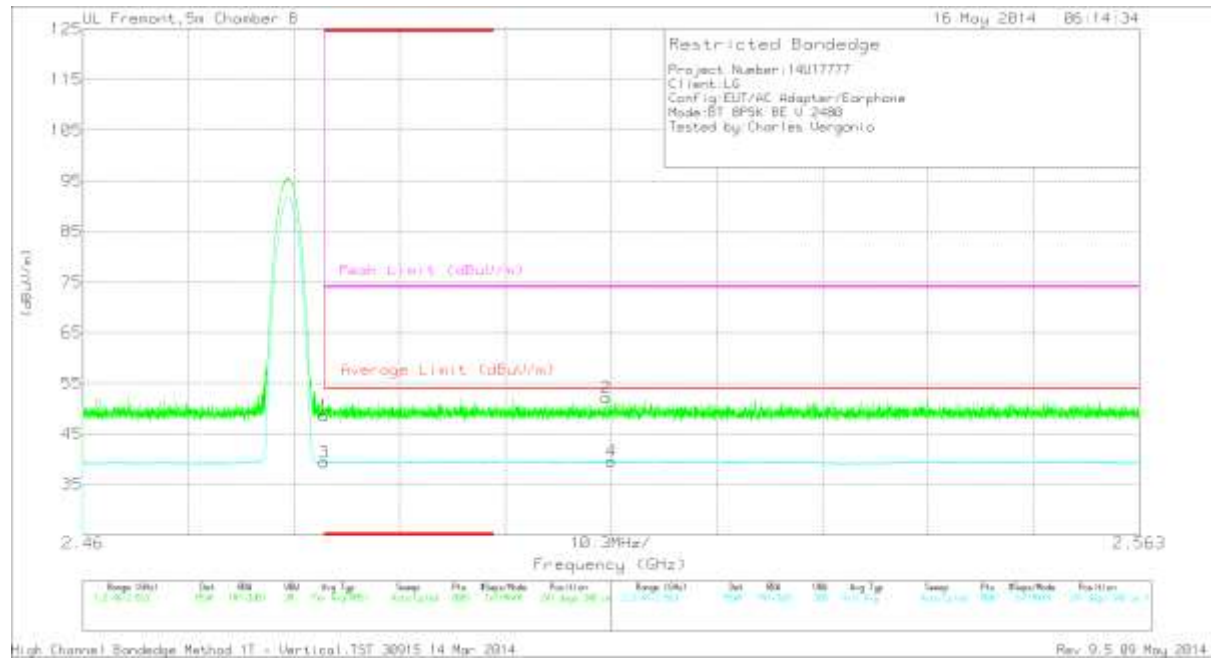
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cb/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | * 2.484 | 40.26 | PK | 32.4 | -22.7 | 0 | 49.96 | - | - | 74 | -24.04 | 283 | 275 | H |
| 3 | * 2.484 | 29.74 | VB1T | 32.4 | -22.7 | 0 | 39.44 | 54 | -14.56 | - | - | 283 | 275 | H |
| 4 | * 2.484 | 29.95 | VB1T | 32.4 | -22.7 | 0 | 39.65 | 54 | -14.35 | - | - | 283 | 275 | H |
| 2 | 2.543 | 42.44 | PK | 32.5 | -22.6 | 0 | 52.34 | - | - | 74 | -21.66 | 283 | 275 | H |

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

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEGE (HIGH CHANNEL, VERTICAL)



High Channel Bandedge Method 1T - Vertical, 15T, 30015, 14 Mar 2014

Rev. 0.5 09 May 2014

Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cb/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 | * 2.484 | 38.83 | PK | 32.4 | -22.7 | 0 | 48.53 | - | - | 74 | -25.47 | 241 | 348 | V |
| 3 | * 2.484 | 29.69 | VB1T | 32.4 | -22.7 | 0 | 39.39 | 54 | -14.61 | - | - | 241 | 348 | V |
| 2 | 2.511 | 42.31 | PK | 32.5 | -22.7 | 0 | 52.11 | - | - | 74 | -21.89 | 241 | 348 | V |
| 4 | 2.512 | 29.86 | VB1T | 32.5 | -22.7 | 0 | 39.66 | 54 | -14.34 | - | - | 241 | 348 | V |

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

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

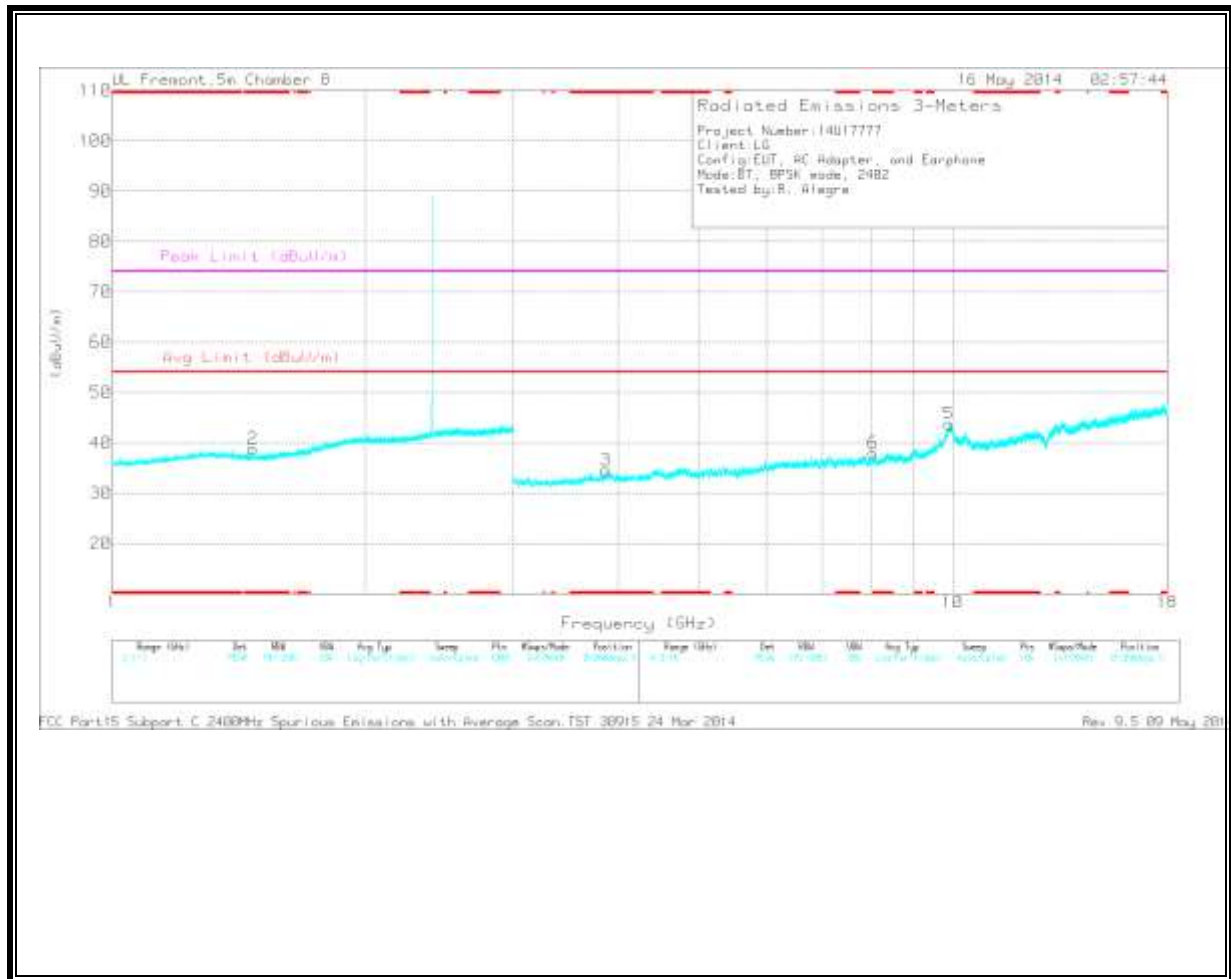
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL
HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA
 Trace Markers

| Marker | Frequenc y (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fi tr/Pad (dB) | DC Corr (dB) | Correcte d Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|---------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------|----------------|----------|
| 1 | * 1.4 | 34.79 | PK | 28.5 | -24.4 | 0 | 38.89 | - | - | 74 | -35.11 | 0-360 | 202 | H |
| 2 | * 1.471 | 34.91 | PK | 28.1 | -24.2 | 0 | 38.81 | - | - | 74 | -35.19 | 0-360 | 202 | V |
| 4 | * 5.391 | 30.61 | PK | 34.5 | -29 | 0 | 36.11 | - | - | 74 | -37.89 | 0-360 | 99 | H |
| 3 | * 3.866 | 31.3 | PK | 33.7 | -30.4 | 0 | 34.6 | - | - | 74 | -39.4 | 0-360 | 99 | V |
| 6 | * 8.041 | 28.62 | PK | 35.7 | -26.4 | 0 | 37.92 | - | - | 74 | -36.08 | 0-360 | 202 | V |
| 5 | 9.9 | 30.38 | PK | 37 | -23.6 | 0 | 43.78 | - | - | - | - | 0-360 | 99 | V |

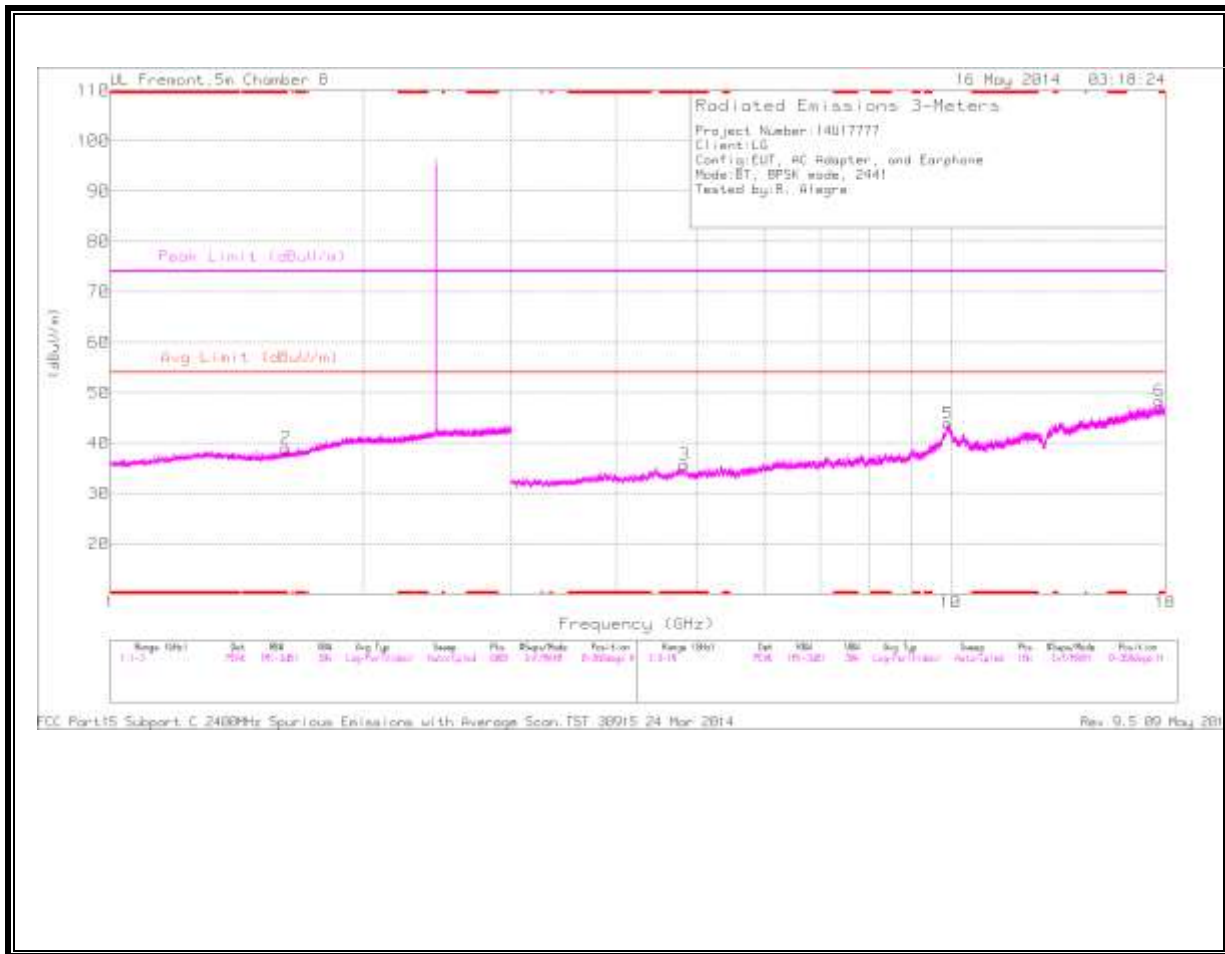
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
 PK - Peak detector

Radiated Emissions

| Frequen cy (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl /Filtr/Pad (dB) | Correcte d Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|------------------------|----------------------------|------|-------------------|-------------------------------|--|------------------------------|----------------|-------------------------------|----------------------|-------------------|----------------|----------|
| * 1.401 | 43.59 | PK3 | 28.5 | -24.4 | 47.69 | - | - | 74 | -26.31 | 1 | 204 | H |
| * 1.473 | 43.19 | PK3 | 28.1 | -24.2 | 47.09 | - | - | 74 | -26.91 | 1 | 204 | V |
| * 5.392 | 39.85 | PK3 | 34.5 | -29 | 45.35 | - | - | 74 | -28.65 | 1 | 100 | H |
| * 8.041 | 37.57 | PK3 | 35.7 | -26.4 | 46.87 | - | - | 74 | -27.13 | 1 | 204 | V |
| * 8.041 | 24.51 | VB1T | 35.7 | -26.4 | 35.01 | 54 | -18.99 | - | - | 1 | 204 | V |
| * 3.866 | 40.44 | PK3 | 33.7 | -30.4 | 43.74 | - | - | 74 | -30.26 | 1 | 100 | V |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
 PK3 - FHSS Method: Maximum Peak
 VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

MID CHANNEL
HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA
 Trace Markers

| Marker | Frequenc y (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/FI tr/Pad (dB) | DC Corr (dB) | Correcte d Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|---------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------|----------------|----------|
| 2 | * 1.62 | 34.28 | PK | 28.6 | -23.9 | 0 | 38.98 | - | - | 74 | -35.02 | 0-360 | 99 | H |
| 1 | * 1.271 | 34.5 | PK | 28.7 | -24.5 | 0 | 38.7 | - | - | 74 | -35.3 | 0-360 | 202 | V |
| 3 | * 4.823 | 31.33 | PK | 34.2 | -29.8 | 0 | 35.73 | - | - | 74 | -38.27 | 0-360 | 99 | H |
| 6 | * 17.712 | 25.18 | PK | 41.5 | -18.3 | 0 | 48.38 | - | - | 74 | -25.62 | 0-360 | 99 | H |
| 4 | * 4.696 | 30.68 | PK | 34.2 | -29.7 | 0 | 35.18 | - | - | 74 | -38.82 | 0-360 | 99 | V |
| 5 | 9.92 | 30.39 | PK | 37 | -23.5 | 0 | 43.89 | - | - | - | - | 0-360 | 99 | H |

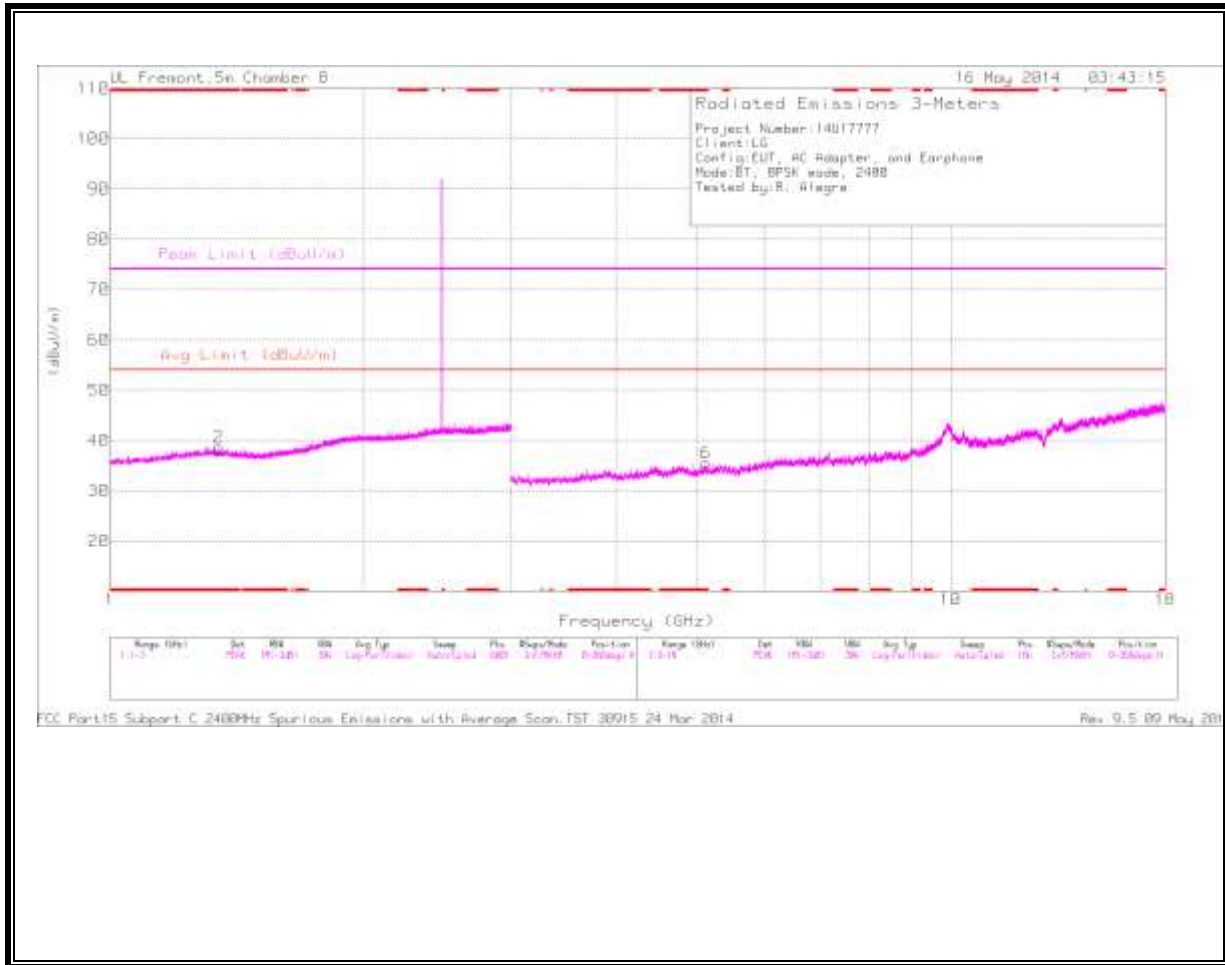
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
 PK - Peak detector

Radiated Emissions

| Frequen cy (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl /Filtr/Pad (dB) | Correcte d Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|------------------------|----------------------------|------|-------------------|-------------------------------|--|------------------------------|----------------|-------------------------------|----------------------|-------------------|----------------|----------|
| * 1.622 | 43.13 | PK3 | 28.6 | -23.9 | 47.83 | - | - | 74 | -26.17 | 1 | 100 | H |
| * 1.272 | 43.44 | PK3 | 28.7 | -24.5 | 47.64 | - | - | 74 | -26.36 | 1 | 204 | V |
| * 17.711 | 33.66 | PK3 | 41.5 | -18.4 | 56.76 | - | - | 74 | -17.24 | 1 | 100 | H |
| * 17.712 | 20.57 | VB1T | 41.5 | -18.4 | 44.87 | 54 | -9.13 | - | - | 1 | 100 | H |
| * 4.823 | 40.16 | PK3 | 34.2 | -29.8 | 44.56 | - | - | 74 | -29.44 | 1 | 100 | H |
| * 17.712 | 34 | PK3 | 41.5 | -18.3 | 57.2 | - | - | 74 | -16.8 | 245 | 323 | H |
| * 17.713 | 20.53 | VB1T | 41.5 | -18.3 | 44.93 | 54 | -9.07 | - | - | 245 | 323 | H |
| * 4.696 | 39.98 | PK3 | 34.2 | -29.7 | 44.48 | - | - | 74 | -29.52 | 1 | 100 | V |

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
 PK3 - FHSS Method: Maximum Peak
 VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

HIGH CHANNEL
 HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA
Trace Markers

| Marker | Frequenc y (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/FI tr/Pad (dB) | DC Corr (dB) | Correcte d Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|------------------------|----------------------------|-----|-------------------|---------------------------|-----------------|--------------------------------------|-----------------------|----------------|------------------------|----------------------|-------------------|----------------|----------|
| 2 | * 1.347 | 34.35 | PK | 28.7 | -24.4 | 0 | 38.65 | - | - | 74 | -35.35 | 0-360 | 99 | H |
| 1 | * 1.55 | 34.95 | PK | 28.2 | -24.1 | 0 | 39.05 | - | - | 74 | -34.95 | 0-360 | 99 | V |
| 3 | * 2.332 | 33.61 | PK | 31.8 | -22.9 | 0 | 42.51 | - | - | 74 | -31.49 | 0-360 | 99 | V |
| 6 | * 5.111 | 30.13 | PK | 34.3 | -28.9 | 0 | 35.53 | - | - | 74 | -38.47 | 0-360 | 99 | H |
| 4 | * 3.889 | 31.19 | PK | 33.8 | -30.2 | 0 | 34.79 | - | - | 74 | -39.21 | 0-360 | 99 | V |
| 5 | 9.892 | 30.32 | PK | 37 | -23.7 | 0 | 43.62 | - | - | - | - | 0-360 | 202 | V |

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

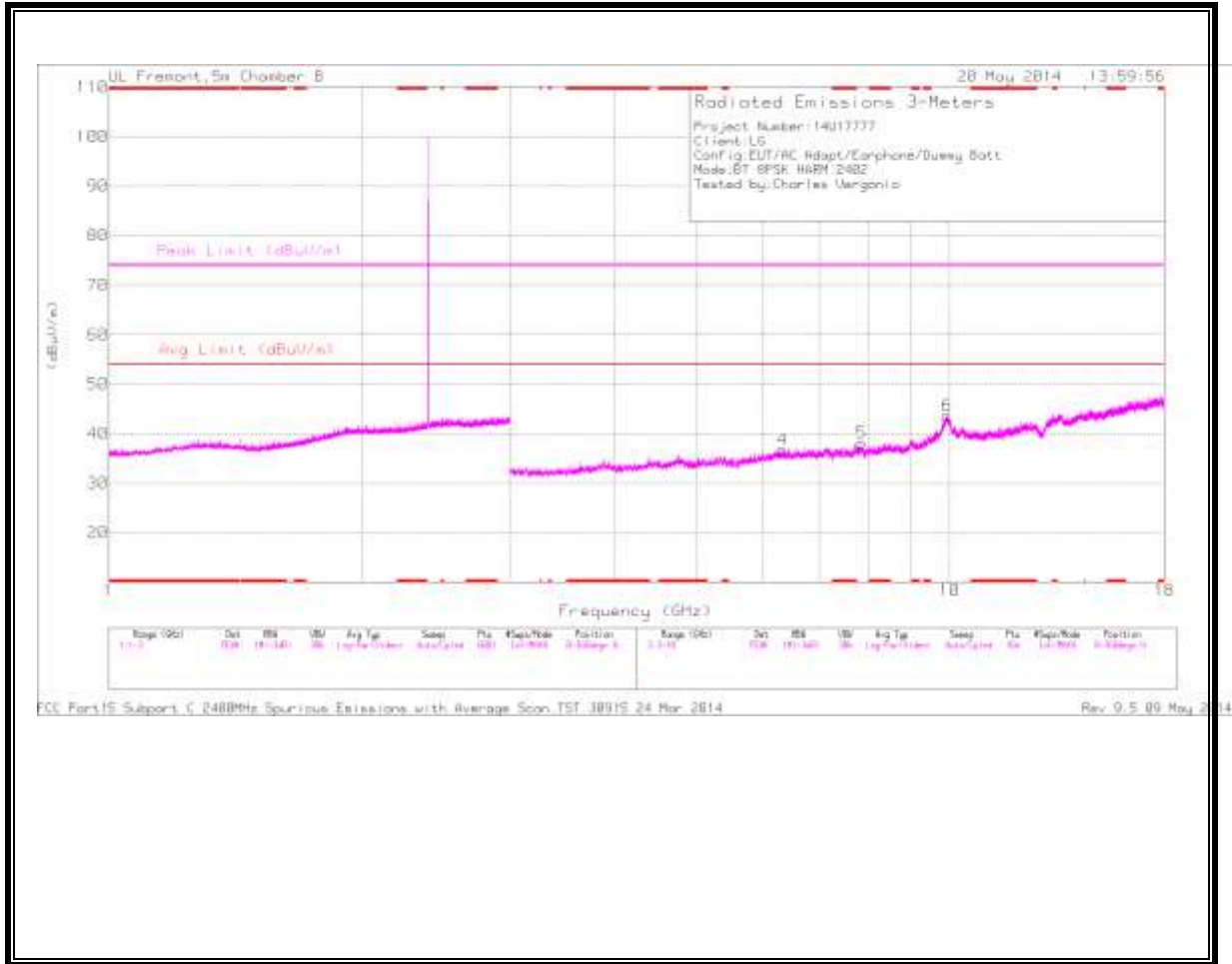
Radiated Emissions

| Frequen cy (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl /Fitr/Pad (dB) | Correcte d Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|------------------------|----------------------------|------|-------------------|------------------------------|--|------------------------------|----------------|-------------------------------|----------------------|-------------------|----------------|----------|
| * 1.347 | 43.89 | PK3 | 28.7 | -24.4 | 48.19 | - | - | 74 | -25.81 | 360 | 100 | H |
| * 2.333 | 42.77 | PK3 | 31.8 | -22.9 | 51.67 | - | - | 74 | -22.33 | 360 | 100 | V |
| * 1.55 | 43.37 | PK3 | 28.2 | -24.1 | 47.47 | - | - | 74 | -26.53 | 360 | 100 | V |
| * 5.112 | 24.39 | VB1T | 34.3 | -28.9 | 29.79 | 54 | -24.21 | - | - | 360 | 100 | H |
| * 5.11 | 39.3 | PK3 | 34.3 | -28.9 | 44.7 | - | - | 74 | -29.3 | 360 | 100 | H |
| * 5.109 | 26.43 | VB1T | 34.3 | -28.9 | 33.03 | 54 | -20.97 | - | - | 360 | 100 | H |
| * 3.888 | 40.61 | PK3 | 33.8 | -30.2 | 44.21 | - | - | 74 | -29.79 | 360 | 100 | V |
| * 3.887 | 27.66 | VB1T | 33.8 | -30.2 | 32.46 | 54 | -21.54 | - | - | 360 | 100 | V |

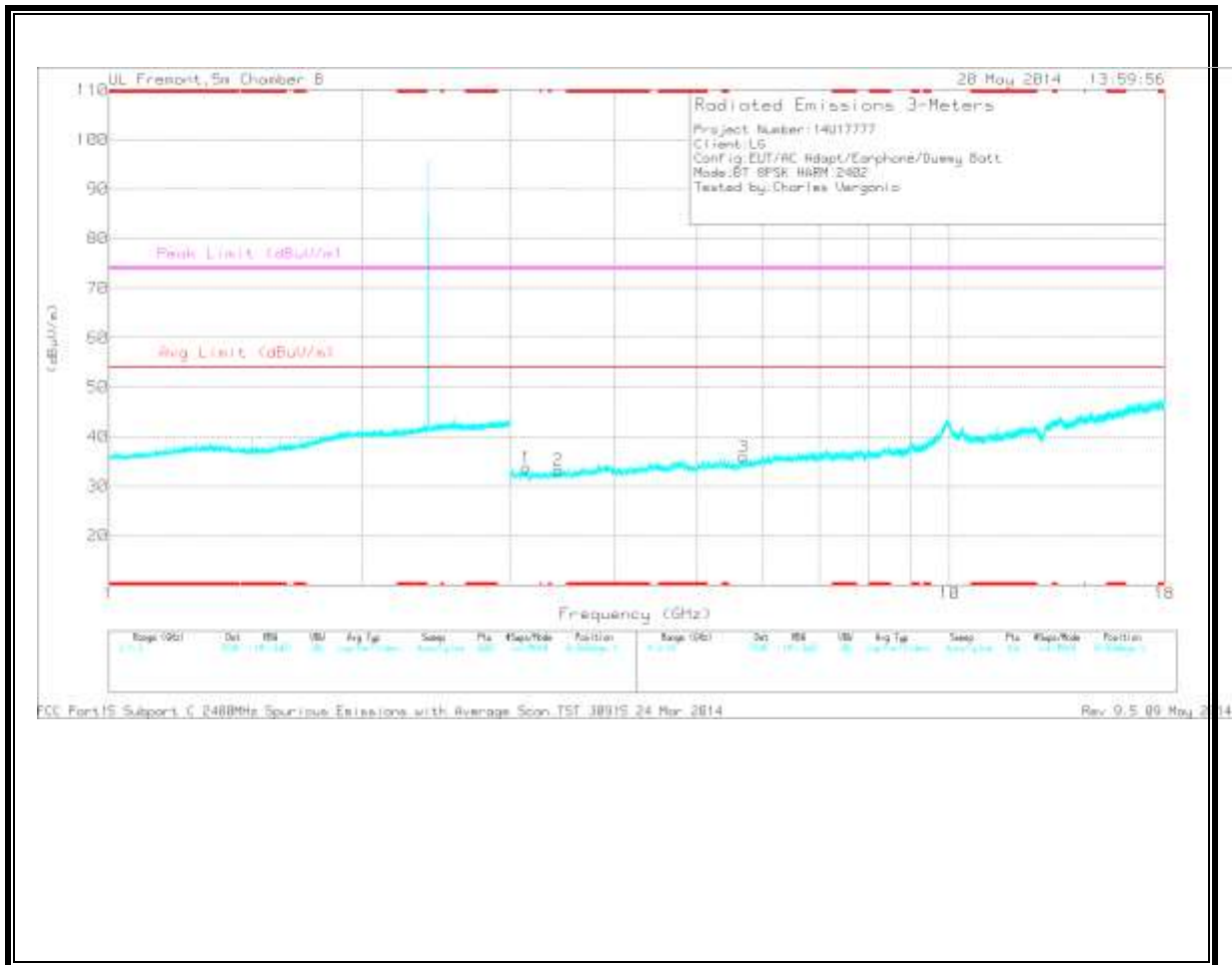
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
 PK3 - FHSS Method: Maximum Peak
 VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

WORST CASE HARMONICS AND SPURIOUS EMISSIONS WITH SMART COVER

HORIZONTAL



VERTICAL



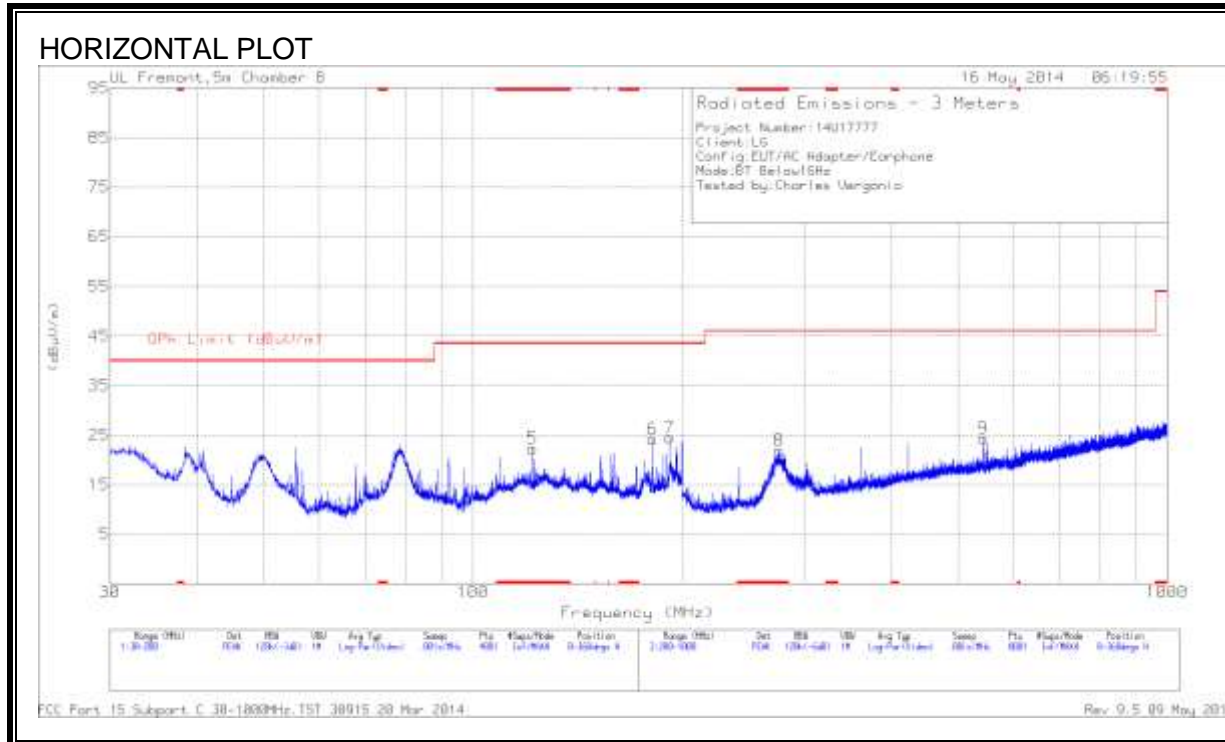
CHANNEL DATA

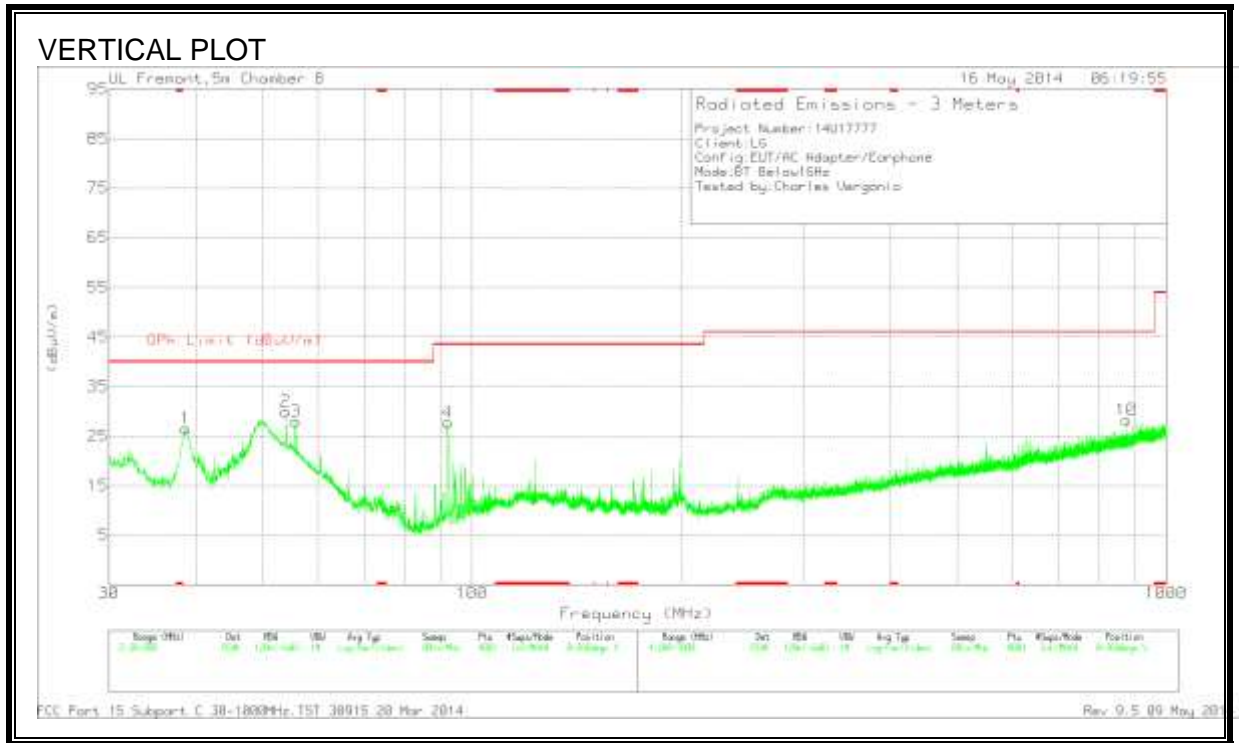
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/F ltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1 | 3.138 | 32.09 | PK | 32.8 | -31.2 | 33.69 | - | - | - | - | 0-360 | 202 | V |
| 2 | 3.426 | 31.43 | PK | 32.8 | -31 | 33.23 | - | - | - | - | 0-360 | 99 | V |
| 3 | 5.688 | 30.48 | PK | 34.5 | -29.1 | 35.88 | - | - | - | - | 0-360 | 202 | V |
| 4 | 6.324 | 29.94 | PK | 35.5 | -28.7 | 36.74 | - | - | - | - | 0-360 | 99 | H |
| 5 | 7.853 | 28.98 | PK | 35.7 | -26.6 | 38.08 | - | - | - | - | 0-360 | 99 | H |
| 6 | 9.933 | 30.01 | PK | 37 | -23.4 | 43.61 | - | - | - | - | 0-360 | 202 | H |

PK - Peak detector

8.3. WORST-CASE BELOW 1 GHz

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





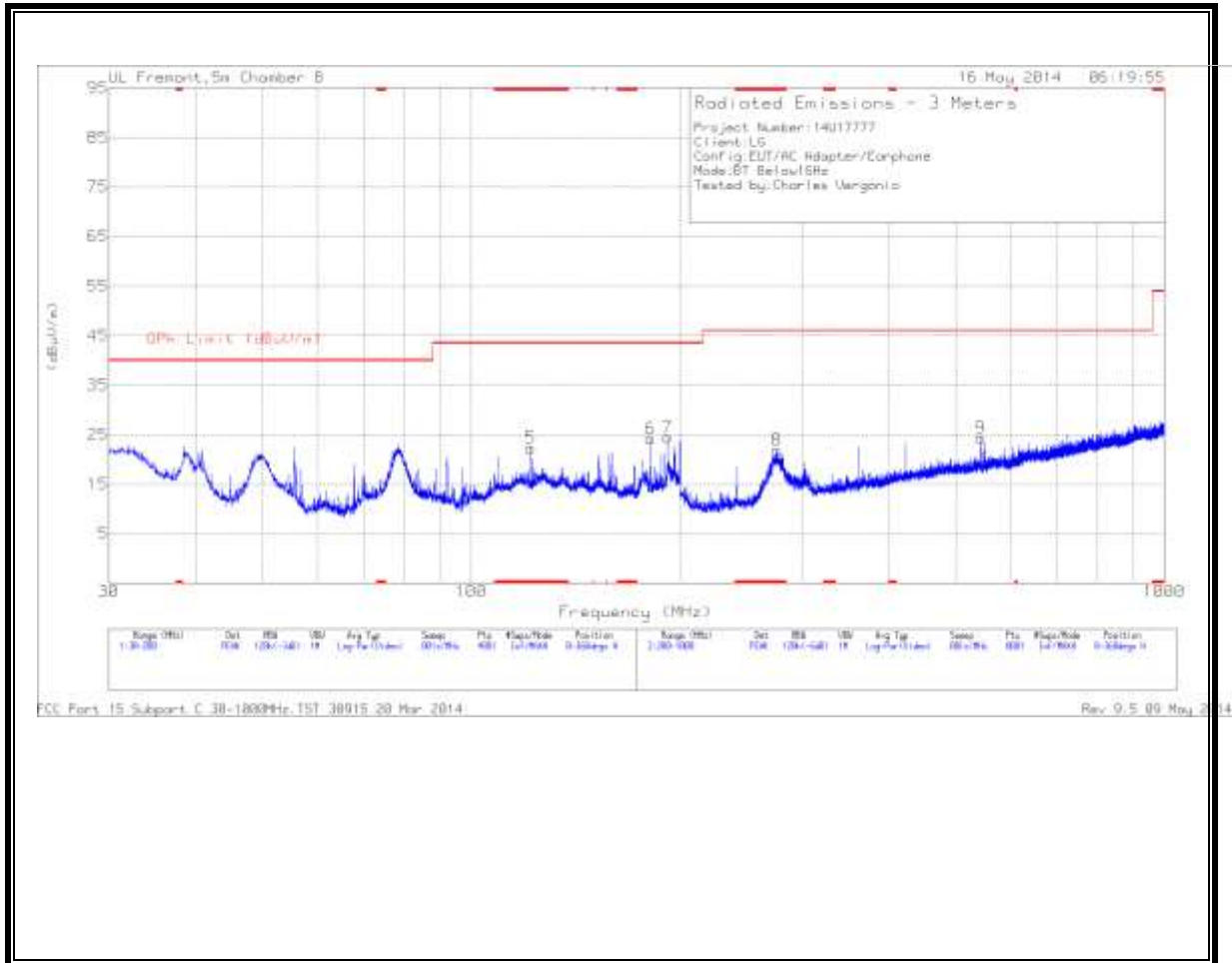
Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AF T243 (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 5 | * 121.8 | 36.15 | PK | 14 | -27.8 | 22.35 | 43.52 | -21.17 | 0-360 | 300 | H |
| 8 | * 275.9 | 34.57 | PK | 13.4 | -26.1 | 21.87 | 46.02 | -24.15 | 0-360 | 101 | H |
| 1 | 38.67 | 40.28 | PK | 14.9 | -28.7 | 26.48 | 40 | -13.52 | 0-360 | 101 | V |
| 2 | 53.9275 | 51.31 | PK | 7.2 | -28.5 | 30.01 | 40 | -9.99 | 0-360 | 101 | V |
| 3 | 55.755 | 49.27 | PK | 7.2 | -28.5 | 27.97 | 40 | -12.03 | 0-360 | 101 | V |
| 4 | 92.305 | 47.67 | PK | 8.2 | -28.1 | 27.77 | 43.52 | -15.75 | 0-360 | 101 | V |
| 6 | 181.4275 | 40.37 | PK | 10.9 | -27.1 | 24.17 | 43.52 | -19.35 | 0-360 | 200 | H |
| 7 | 192.01 | 40.18 | PK | 11.3 | -27 | 24.48 | 43.52 | -19.04 | 0-360 | 101 | H |
| 9 | 544.2 | 31.8 | PK | 18.1 | -25.6 | 24.3 | 46.02 | -21.72 | 0-360 | 200 | H |
| 10 | 877.2 | 29.73 | PK | 21.8 | -23.3 | 28.23 | 46.02 | -17.79 | 0-360 | 101 | V |

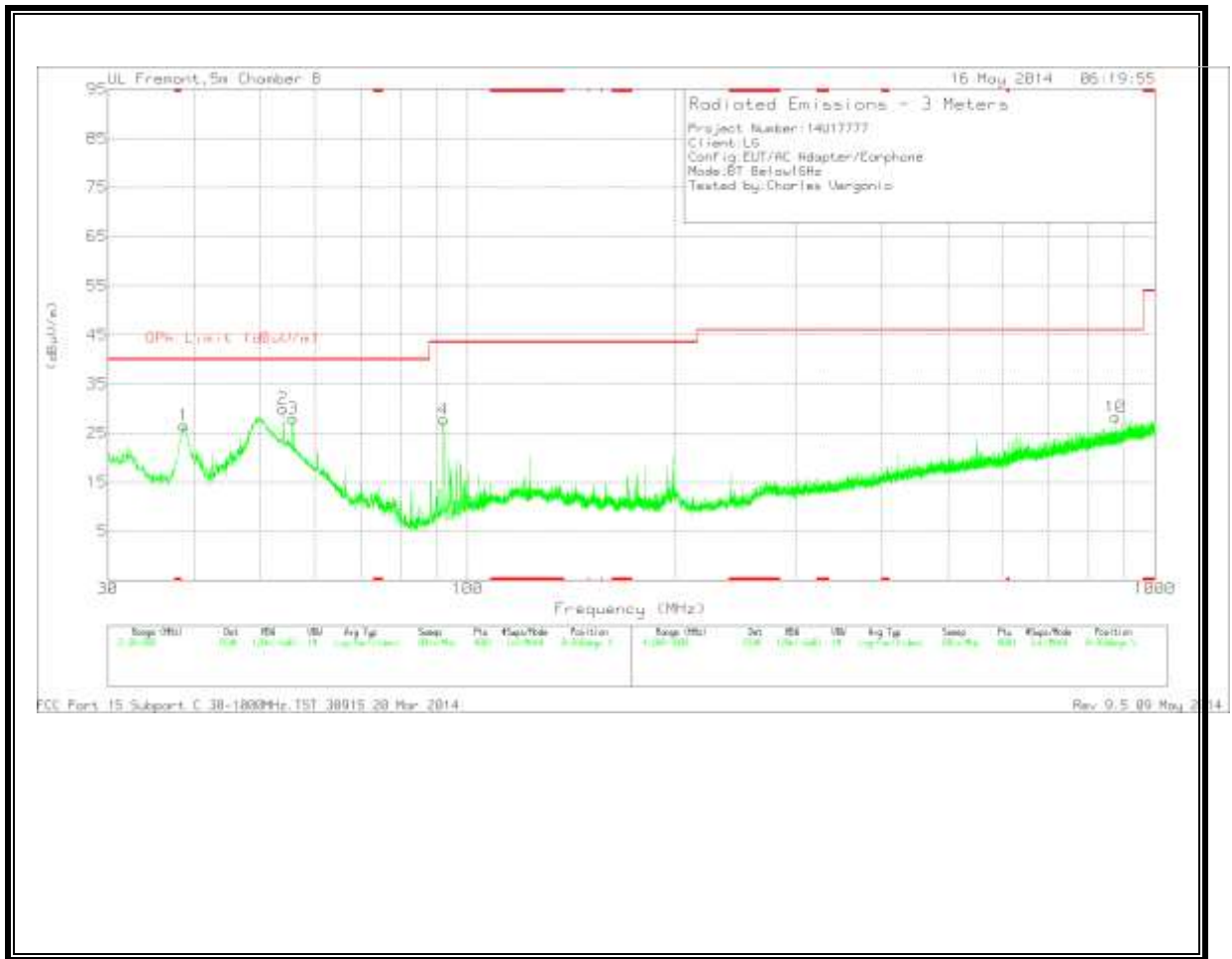
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
 PK - Peak detector

WORST CASE HARMONICS AND SPURIOUS EMISSIONS WITH SMART COVER

HORIZONTAL



VERTICAL



CHANNEL DATA

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AF T243 (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 5 | * 121.8 | 36.15 | PK | 14 | -27.8 | 22.35 | 43.52 | -21.17 | 0-360 | 300 | H |
| 8 | * 275.9 | 34.57 | PK | 13.4 | -26.1 | 21.87 | 46.02 | -24.15 | 0-360 | 101 | H |
| 1 | 38.67 | 40.28 | PK | 14.9 | -28.7 | 26.48 | 40 | -13.52 | 0-360 | 101 | V |
| 2 | 53.9275 | 51.31 | PK | 7.2 | -28.5 | 30.01 | 40 | -9.99 | 0-360 | 101 | V |
| 3 | 55.755 | 49.27 | PK | 7.2 | -28.5 | 27.97 | 40 | -12.03 | 0-360 | 101 | V |
| 4 | 92.305 | 47.67 | PK | 8.2 | -28.1 | 27.77 | 43.52 | -15.75 | 0-360 | 101 | V |
| 6 | 181.4275 | 40.37 | PK | 10.9 | -27.1 | 24.17 | 43.52 | -19.35 | 0-360 | 200 | H |
| 7 | 192.01 | 40.18 | PK | 11.3 | -27 | 24.48 | 43.52 | -19.04 | 0-360 | 101 | H |
| 9 | 544.2 | 31.8 | PK | 18.1 | -25.6 | 24.3 | 46.02 | -21.72 | 0-360 | 200 | H |
| 10 | 877.2 | 29.73 | PK | 21.8 | -23.3 | 28.23 | 46.02 | -17.79 | 0-360 | 101 | V |

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

PK - Peak detector