



**FCC CFR47 PART 15 SUBPART E  
INDUSTRY CANADA RSS-210 ISSUE 8**

**C2PC TEST REPORT**

**FOR**

**MODEL NUMBER: 7260HMW**

**FCC ID: 2AB5I-7260H  
IC: 11929A-7260H**

**REPORT NUMBER: 14M17040-2**

**ISSUE DATE: AUG. 04, 2014**

*Prepared for*  
**GE Inspection Technologies, LP  
50 Industrial Park Road  
Lewiston, PA 17044, USA**

*Prepared by*  
**UL LLC  
1285 WALT WHITMAN RD.  
MELVILLE, NY 11747, U.S.A.  
TEL: (631) 271-6200  
FAX: (877) 854-3577**



**NVLAP LAB CODE 100255-0**

Revision History

| Rev. | Issue Date | Revisions                                                                               | Revised By    |
|------|------------|-----------------------------------------------------------------------------------------|---------------|
| --   | 06/09/14   | Initial Issue                                                                           | Joseph Danisi |
| -2   | 08/04/14   | Correct antenna gain, power, add duty cycle plots, add note about similar measurements. | Joseph Danisi |

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## 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** GE Inspection Technologies, LP  
50 Industrial Park Road  
Lewiston, PA 17044, USA

**MODEL:** 7260HMW

**SERIAL NUMBER:** Prototype

**DATE TESTED:** March 06, 2014 to June 9, 2014

| APPLICABLE STANDARDS                    |              |
|-----------------------------------------|--------------|
| STANDARD                                | TEST RESULTS |
| CFR 47 Part 15 Subpart E                | Pass         |
| INDUSTRY CANADA RSS-210 Issue 8 Annex 9 | Pass         |
| INDUSTRY CANADA RSS-GEN Issue 3         | Pass         |

UL LLC 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 LLC 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 LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC 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.

Approved & Released For UL LLC By:

Tested By:



**Joseph Danisi (Ext.23055)**  
Project Lead  
Consumer Technology Division



**Bob DeLisi (Ext.22452)**  
Principal Engineer  
Consumer Technology Division

## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, FCC 06-96, FCC KDB 789033, ANSI C63.10-2009, 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 1285 Walt Whitman Road, Melville, NY, USA.

UL Melville is accredited by NVLAP, Laboratory Code 100255-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/standards/scopes/1002550.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:

| Test                                            | Uncertainty      |
|-------------------------------------------------|------------------|
| Conducted Emissions (worst case 9kHz-30MHz)     | ± 2.0, k=2 (95%) |
| Radiated Emissions, 30-200MHz, Horizontal       | ± 3.6, k=2 (95%) |
| Radiated Emissions, 30-200MHz, Vertical         | ± 3.8, k=2 (95%) |
| Radiated Emissions, 200-1000MHz, Horizontal     | ± 2.8, k=2 (95%) |
| Radiated Emissions, 200-1000MHz, Vertical       | ± 3.7, k=2 (95%) |
| Radiated Emissions, 1-18GHz (worst case, sVSWR) | ± 4.9, k=2 (95%) |

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

## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

The equipment under test is an industrial remote visual inspection video borescope. It is used to visually inspect high value assets without having to tear them down. i.e., power gen turbines and aircraft engines.

For 802.11a mode the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually but not Simultaneously.

For 802.11n/ac modes 802.11n20 (20 MHz channel bandwidth), 802.11n40 (40 MHz channel bandwidth) and 802.11ac80 (80MHz channel bandwidth) mode the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually and simultaneously.

The EUT was using the Intel test utility DRTU Version during transmitter test the EUT was being controlled by the Intel DRTU tool to operate in a continuous transmit mode on the test channels as required and in each of the different modulation modes.

### 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) |
|-----------------------|--------------|--------------------|-------------------|
| 5180 - 5240           | 802.11a      | 15.07              | 32.14             |
| 5180 - 5240           | 802.11n HT20 | 15.1               | 32.36             |
| 5190 - 5230           | 802.11n HT40 | 15.65              | 36.73             |
| 5210                  | 802.11ac 80  | 7.79               | 6.01              |
| 5260 - 5320           | 802.11a      | 16.18              | 41.50             |
| 5260 - 5320           | 802.11n HT20 | 15.01              | 31.70             |
| 5260 - 5320           | 802.11n HT40 | 10.19              | 10.45             |
| 5290                  | 802.11ac 80  | 10.28              | 10.67             |
| 5500 - 5700           | 802.11a      | 17.21              | 52.60             |
| 5500 - 5700           | 802.11n HT20 | 17.13              | 51.64             |
| 5510 - 5670           | 802.11n HT40 | 16.76              | 47.42             |
| 5530 - 5690           | 802.11ac 80  | 14.23              | 26.49             |

Note: The power measurements were from original module evaluation

### 5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an Ethertronics 1000418 antenna, with a maximum gain of 3.25 dBi.

Note: Worst case across all bands.

### 5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was Team Build 2, rev. 1.

The EUT driver software installed during testing was SVNDISUIO, rev. 15.0.0.16

The test utility software used during testing was Intel DRTU 1.6.0-0510.

## **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 orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in X orientation.

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

802.11a mode: 6 Mbps  
802.11n HT20mode: HT4  
802.11n HT40mode: HT8  
802.11AC 80mode: VHT6

Radiated emissions for EUT with antenna was performed and passed

## 5.6 DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

| Support Equipment List |              |        |               |        |
|------------------------|--------------|--------|---------------|--------|
| Description            | Manufacturer | Model  | Serial Number | FCC ID |
| Mouse                  | Logitech     | M-BJ58 | HCA 50401031  | None   |

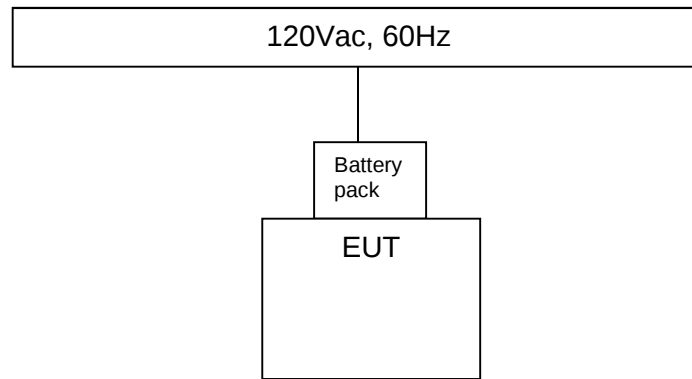
### I/O CABLES

| I/O Cable List |       |                      |                |            |                  |                         |
|----------------|-------|----------------------|----------------|------------|------------------|-------------------------|
| Cable No       | Port  | # of identical ports | Connector Type | Cable Type | Cable Length (m) | Remarks                 |
| 1              | usb   | 3                    | USB            | I/O        | 1                | None                    |
| 2              | Mains | 1                    | Plug           |            | 1.5              | only used to charge the |
|                |       |                      |                |            |                  | battery pack to run the |
|                |       |                      |                |            |                  | equipment under test    |

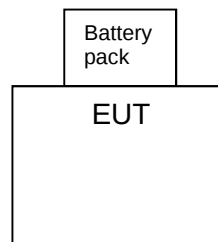
### TEST SETUP

The EUT is installed in a host enclosure during the tests. Test software exercised the radio card.

**SETUP DIAGRAM FOR TESTS**



Set up used for keeping battery pack fully charge during testing only



Typically set up during normal operation

## 6. TEST AND MEASUREMENT EQUIPMENT

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

| Radiated Emissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |                 |            |            |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|------------|------------|--------------|
| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Manufacturer    | Model           | Identifier | Cal Date   | Cal Due Date |
| 30-1000MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                 |            |            |              |
| EMI Receiver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Rohde & Schwarz | ESCI 7          | 75141      | 2014-01-29 | 2015-01-31   |
| Bilog Antenna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sunol           | JB1             | 84106      | 2014-02-19 | 2015-02-19   |
| Switch Driver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | HP              | 11713A          | ME7A-627   | N/A        | N/A          |
| System Controller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Sunol Sciences  | SC99V           | 44396      | N/A        | N/A          |
| Camera Controller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Panasonic       | WV-CU254        | 44395      | N/A        | N/A          |
| RF Switch Box                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | UL              | 1               | 44398      | N/A        | N/A          |
| Measurement Software                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UL              | Version 9.5     | 44740      | 2012-12-22 | 2014-12-22   |
| Multimeter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Fluke           | 83III           | ME5B-305   | 2014-01-28 | 2015-01-31   |
| Above 1GHz (Band Optimized System)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |                 |            |            |              |
| Spectrum Analyzer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Agilent         | E4446A          | 72823      | 2014-01-29 | 2015-01-31   |
| Horn Antenna (2-4 GHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ETS             | 3161-02 (22°)** | 48107      | 2007-09-27 | See * below  |
| Horn Antenna (4-8 GHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ETS             | 3161-03 (22°)** | 48106      | 2007-09-27 | See * below  |
| Horn Antenna (8-12 GHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ETS             | 3160-07 (26°)** | 8933       | 2008-11-24 | See * below  |
| Horn Antenna (12-18 GHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ETS             | 3160-08 (26°)** | 8932       | 2007-09-27 | See * below  |
| Horn Antenna (18-26.5 GHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ETS             | 3160-09 (27°)** | 8947       | 2007-09-26 | See * below  |
| Horn Antenna (26.5-40 GHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ETS             | 3160-10 (27°)** | 73004      | 2007-09-26 | See * below  |
| Horn Antenna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EMCO            | 3115            | ME5A-766   | 2013-12-03 | 2014-12-03   |
| Signal Path Controller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | HP              | 11713A          | 50250      | N/A        | N/A          |
| Gain Controller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | HP              | 11713A          | 50251      | N/A        | N/A          |
| RF Switch / Preamp Fixture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | UL              | BOMS1           | 50249      | N/A        | N/A          |
| System Controller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | UL              | BOMS2           | 50252      | N/A        | N/A          |
| Measurement Software                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UL              | Version 9.5     | 44740      | N/A        | N/A          |
| Temp/Humidity/Pressure Meter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Cole Parmer     | 99760-00        | 4268       | 2012-12-22 | 2014-12-22   |
| Multimeter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Fluke           | 83III           | ME5B-305   | 2014-01-28 | 2015-01-31   |
| <p>* - Note: As allowed by the calibration standard ANSI C63.10-2009 Section 4.4.2, standard gain horns need only a one-time calibration. Only if physical damage occurs will the horn antenna require re-calibration.</p> <p>Gain standard horn antennas (sometimes called standard gain horn antennas) need not be calibrated beyond that which is provided by the manufacturer unless they are damaged or deterioration is suspected, or they are used at a distance closer than <math>2D^2/\lambda</math>. Gain standard horn antennas have gains that are fixed by their dimensions and dimensional tolerances.</p> <p>** - Number in parentheses denotes antenna beam width.</p> |                 |                 |            |            |              |

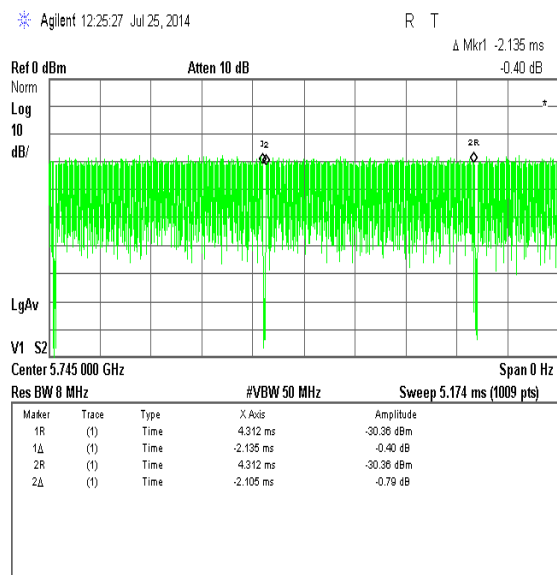
## 7. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

### LIMITS

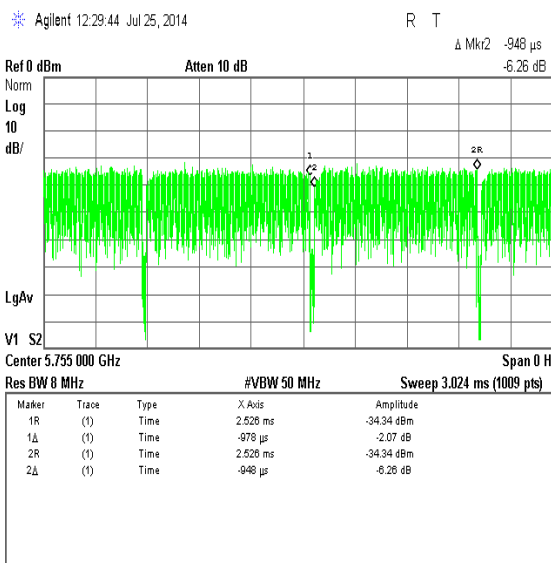
None; for reporting purposes only.

### PROCEDURE

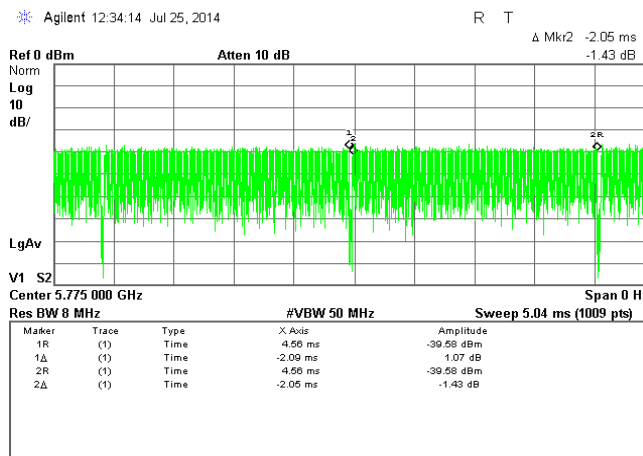
During transmitter test the EUT was being controlled by the Intel DRTU tool to operate in a continuous transmit mode with greater or equal to 98% duty cycle on the test channels and in each of the different modulation modes.



802.11HT20



802.11HT40



802.11 AC80

## 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.

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

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

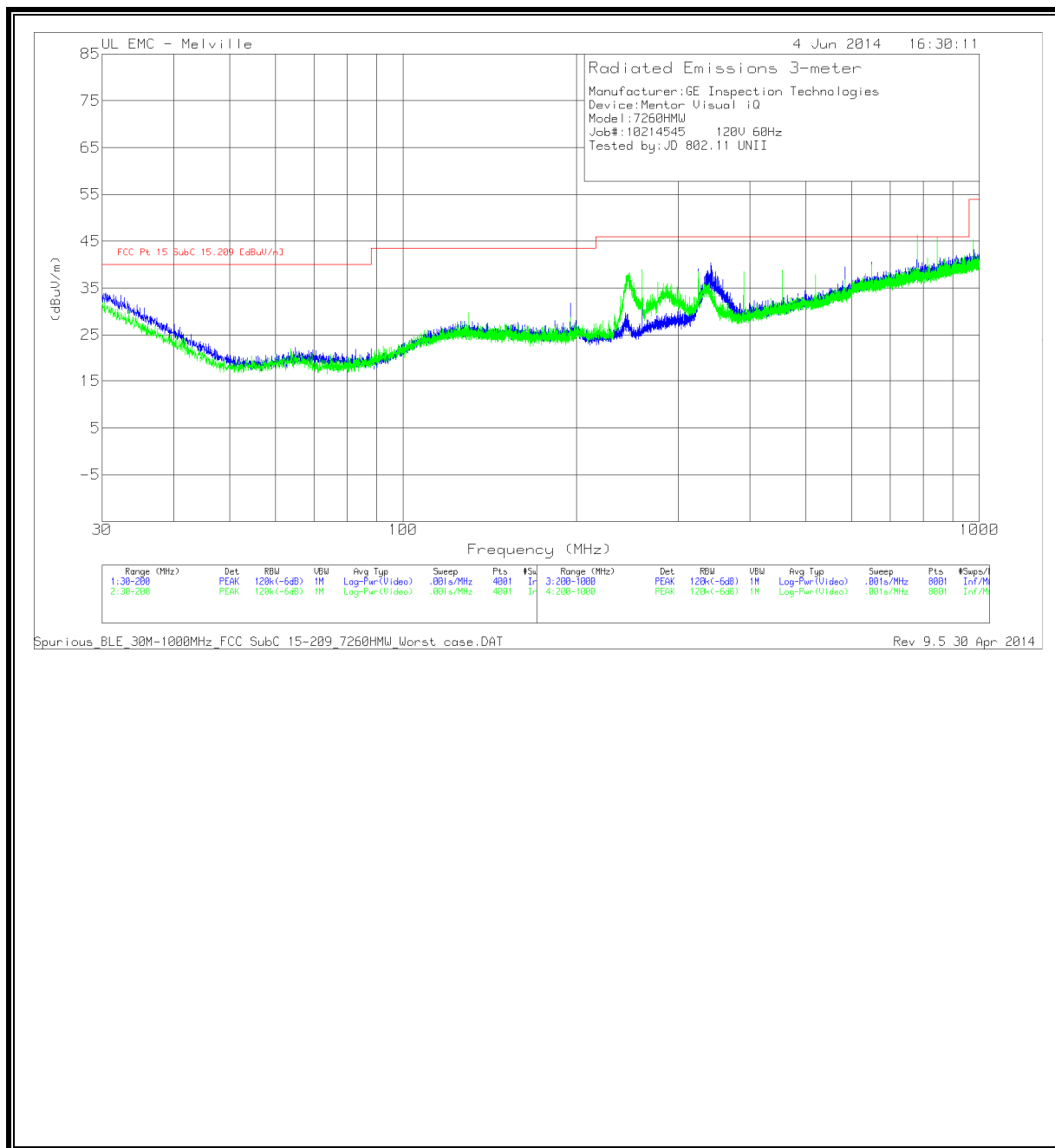
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

Note: Spurious emissions below 2GHz in the restricted band were evaluated after numerous measurement the emissions were identical therefore some results in the tables may outline similar outcomes in the measurement.

## 8.1.2 WORST-CASE BELOW 1 GHz

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



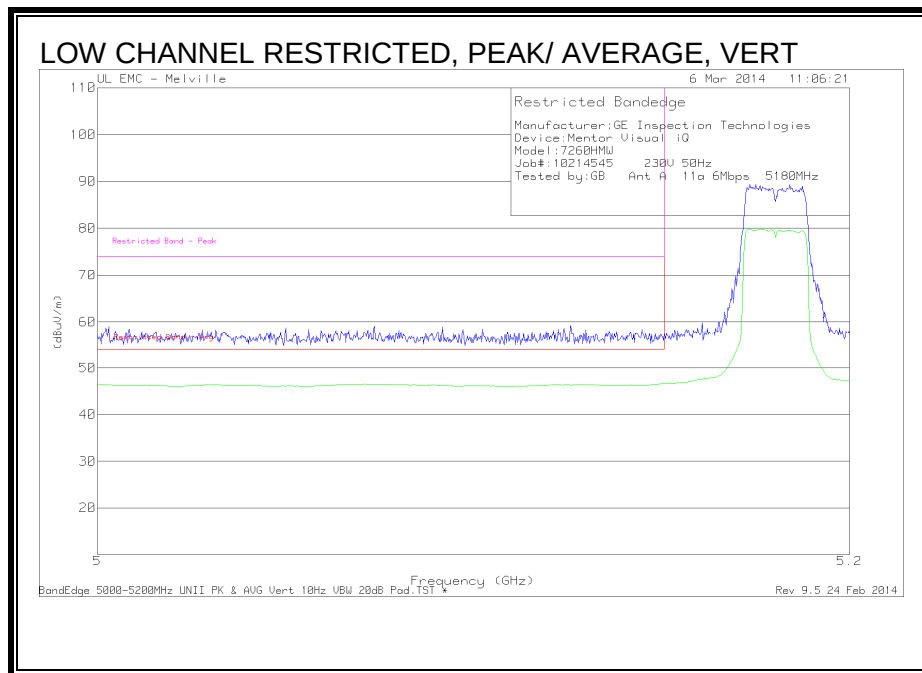
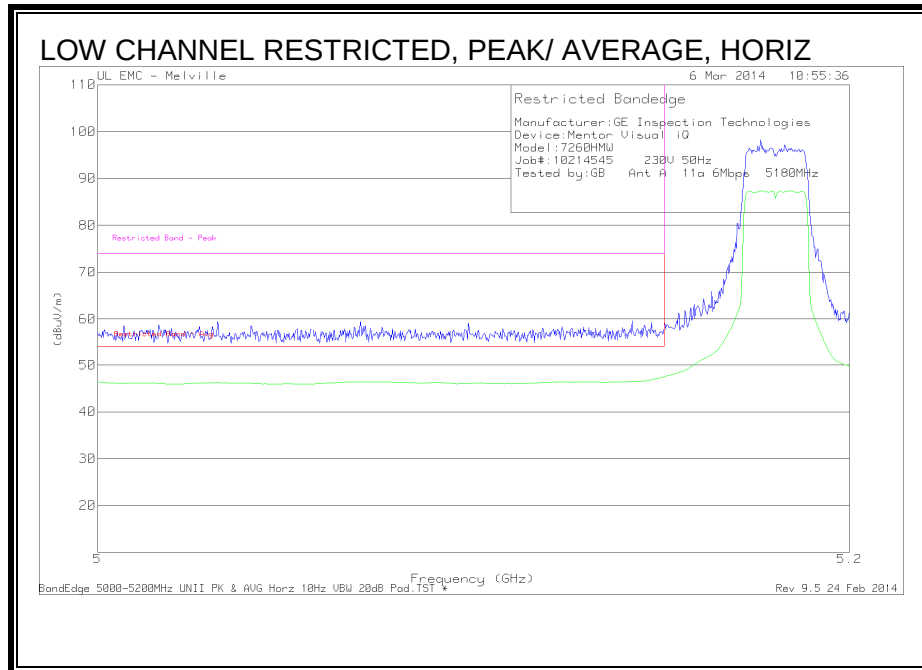
**Data**

| Frequency (MHz) | Meter Reading (dBuV) | Det | AF-84106 [dB/m] | GL [dB] | Corrected Reading (dBuV/m) | FCC Pt 15 SubC 15.209 [dBuV/m] | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|---------|----------------------------|--------------------------------|-------------|----------------|-------------|----------|
| 343             | 14.19                | QP  | 14.7            | 2.8     | 31.69                      | 46                             | -14.31      | 209            | 249         | H        |
| 585.029         | 12.88                | QP  | 19.1            | 3.8     | 35.78                      | 46                             | -10.22      | 215            | 134         | H        |
| 650.0302        | 9.54                 | QP  | 20.3            | 3.9     | 33.74                      | 46                             | -12.26      | 205            | 243         | H        |
| 780.0319        | 14.36                | QP  | 21.8            | 4.4     | 40.56                      | 46                             | -5.44       | 232            | 154         | H        |
| 845.0191        | 16.13                | QP  | 22.3            | 4.6     | 43.03                      | 46                             | -2.97       | 275            | 155         | H        |
| 650.1           | 8                    | QP  | 19.6            | 3.9     | 31.5                       | 46                             | -14.5       | 34             | 267         | V        |
| 780.0558        | 6.46                 | QP  | 21.2            | 4.4     | 32.06                      | 46                             | -13.94      | 243            | 103         | V        |
| 845.0081        | 9.11                 | QP  | 21.6            | 4.6     | 35.31                      | 46                             | -10.69      | 236            | 191         | V        |

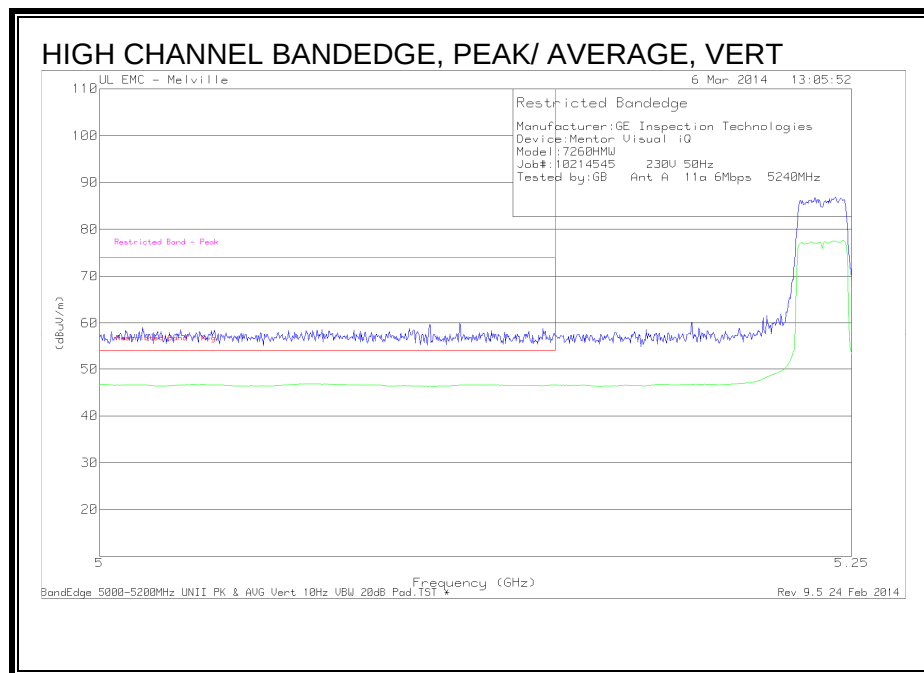
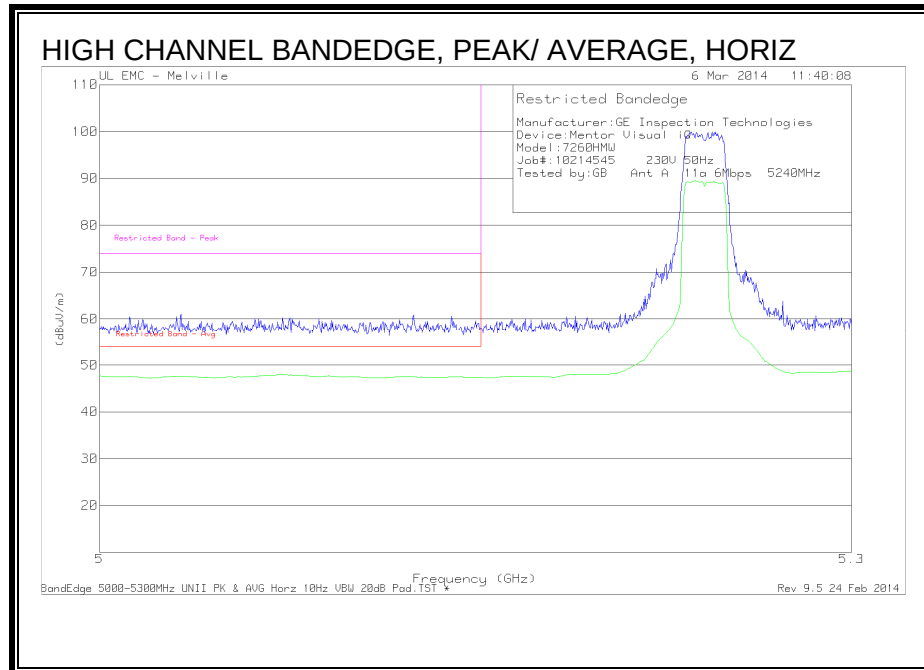
## 8.2. TRANSMITTER ABOVE 1 GHz

### 8.2.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.2 GHz BAND SISO

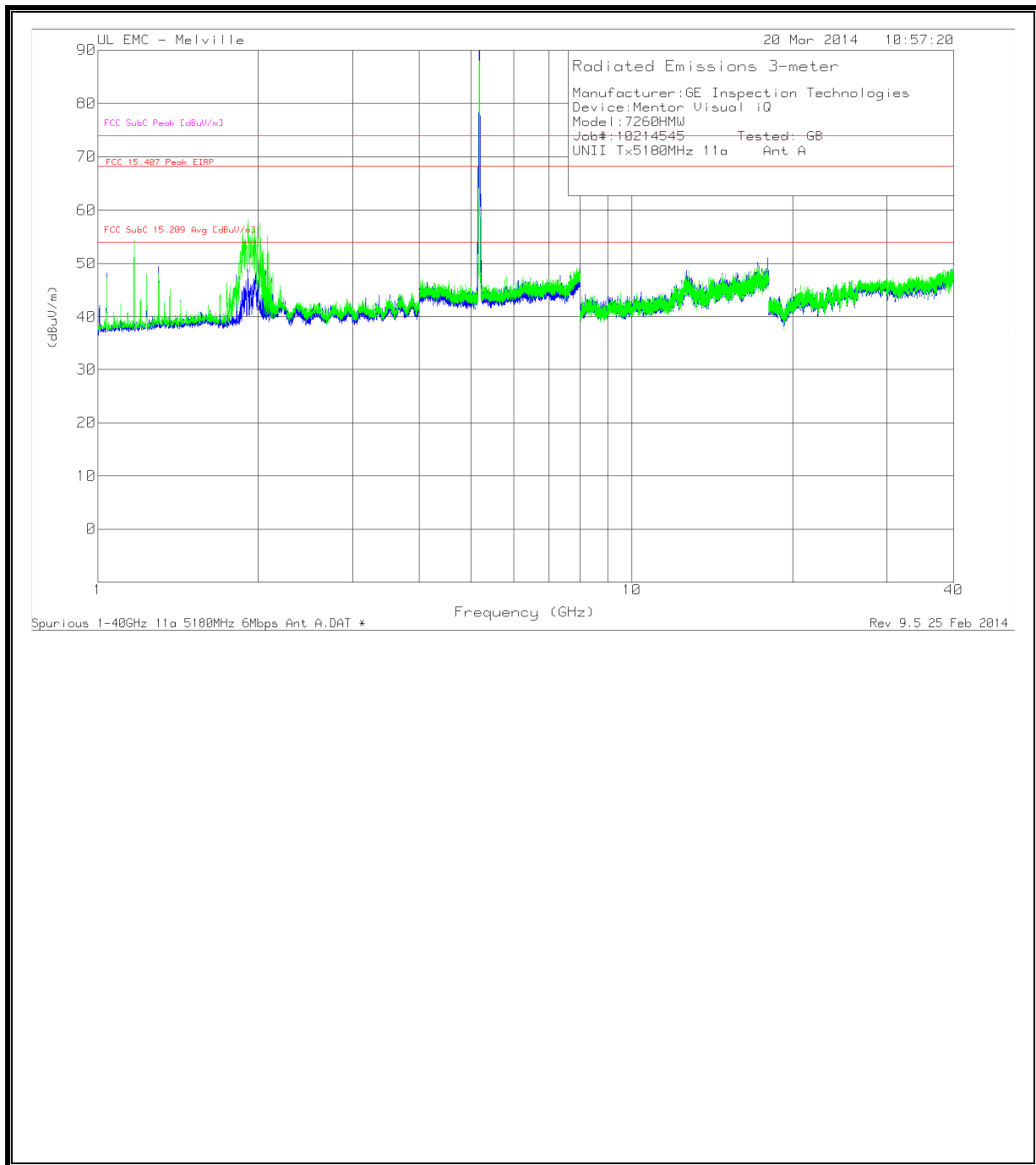
### 8.2.2. RESTRICTED BANDEDGE (LOW CHANNEL CHAIN A)



**AUTHORIZED BANDEDGE (HIGH CHANNEL CHAIN A)**



**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL CHAIN A**



Data

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 59.89                | AD1 | 19.6            | -44.23         | 35.26                      | 54                           | -18.74      | -                      | -              | -                    | -              | 309            | 146         | V        |
| * 1.04          | 60.34                | AD1 | 19.6            | -44.22         | 35.72                      | 54                           | -18.28      | -                      | -              | -                    | -              | 349            | 146         | H        |
| * 1.17          | 57.83                | AD1 | 19.9            | -44.21         | 33.52                      | 54                           | -20.48      | -                      | -              | -                    | -              | 161            | 190         | H        |
| * 1.17          | 67.61                | AD1 | 19.9            | -44.18         | 43.33                      | 54                           | -10.67      | -                      | -              | -                    | -              | 331            | 260         | V        |
| * 1.235         | 62.83                | AD1 | 20              | -44.14         | 38.69                      | 54                           | -15.31      | -                      | -              | -                    | -              | 40             | 176         | V        |
| * 1.235         | 55.18                | AD1 | 20              | -44.13         | 31.05                      | 54                           | -22.95      | -                      | -              | -                    | -              | 153            | 356         | H        |
| * 1.3           | 62.95                | AD1 | 20.5            | -44.05         | 39.4                       | 54                           | -14.6       | -                      | -              | -                    | -              | 288            | 244         | H        |
| * 1.3           | 60.41                | AD1 | 20.5            | -44.05         | 36.86                      | 54                           | -17.14      | -                      | -              | -                    | -              | 53             | 138         | V        |
| * 1.04          | 72.82                | PK1 | 19.6            | -44.22         | 48.2                       | -                            | -           | 74                     | -25.8          | -                    | -              | 309            | 146         | V        |
| * 1.04          | 76.24                | PK1 | 19.6            | -44.22         | 51.62                      | -                            | -           | 74                     | -22.38         | -                    | -              | 349            | 146         | H        |
| * 1.17          | 72.31                | PK1 | 19.9            | -44.19         | 48.02                      | -                            | -           | 74                     | -25.98         | -                    | -              | 161            | 190         | H        |
| * 1.17          | 77.71                | PK1 | 19.9            | -44.2          | 53.41                      | -                            | -           | 74                     | -20.59         | -                    | -              | 331            | 260         | V        |
| * 1.235         | 73.84                | PK1 | 20              | -44.13         | 49.71                      | -                            | -           | 74                     | -24.29         | -                    | -              | 40             | 176         | V        |
| * 1.235         | 68.08                | PK1 | 20              | -44.14         | 43.94                      | -                            | -           | 74                     | -30.06         | -                    | -              | 153            | 356         | H        |
| * 1.3           | 75.86                | PK1 | 20.5            | -44.05         | 52.31                      | -                            | -           | 74                     | -21.69         | -                    | -              | 288            | 244         | H        |
| * 1.3           | 73.16                | PK1 | 20.5            | -44.05         | 49.61                      | -                            | -           | 74                     | -24.39         | -                    | -              | 53             | 138         | V        |
| 1.85            | 77.63                | PK1 | 21.3            | -43.74         | 55.19                      | -                            | -           | -                      | -              | 68.2                 | -13.01         | 202            | 284         | V        |
| 1.878           | 79.07                | PK1 | 21.5            | -43.63         | 56.94                      | -                            | -           | -                      | -              | 68.2                 | -11.26         | 151            | 177         | V        |
| 1.869           | 79.96                | PK1 | 21.4            | -43.7          | 57.66                      | -                            | -           | -                      | -              | 68.2                 | -10.54         | 151            | 177         | V        |
| 1.916           | 79.39                | PK1 | 21.7            | -43.58         | 57.51                      | -                            | -           | -                      | -              | 68.2                 | -10.69         | 137            | 144         | V        |
| 1.97            | 80.88                | PK1 | 22              | -43.34         | 59.54                      | -                            | -           | -                      | -              | 68.2                 | -8.66          | 182            | 327         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

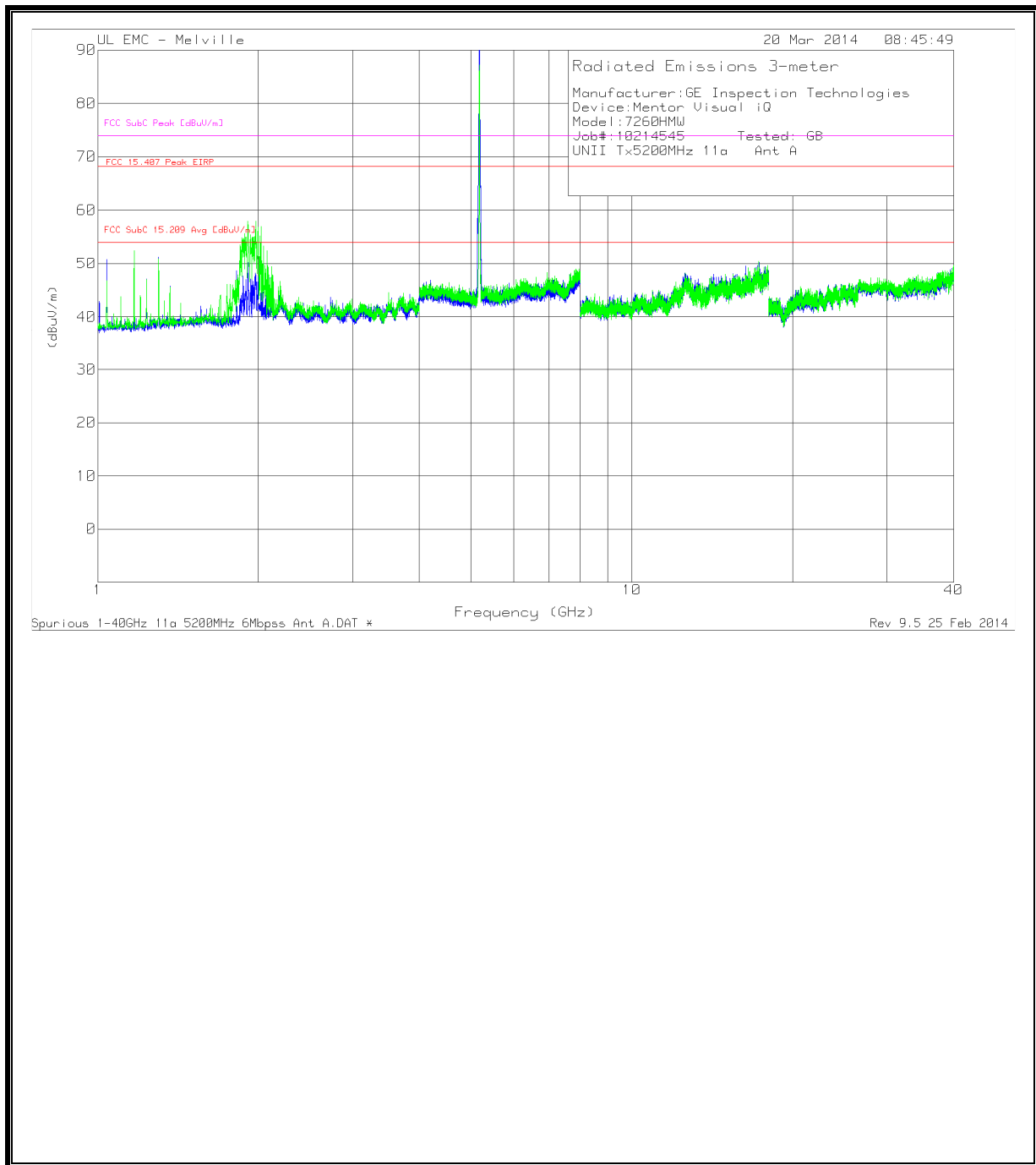
Note: No spurious emissions observed beyond the fundamental frequency

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL CHAIN A**



DATA

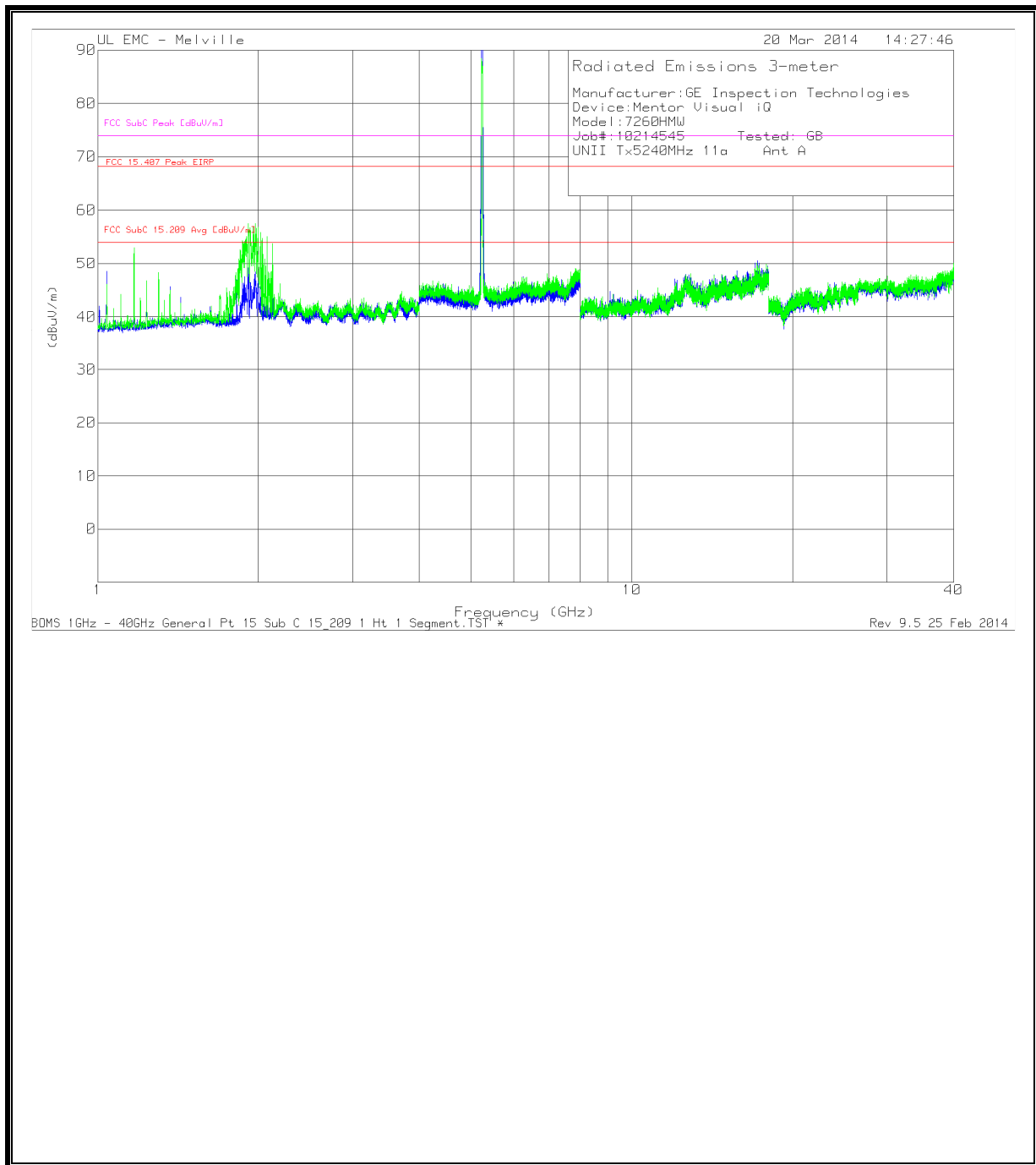
| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 58.85                | AD1 | 19.6            | -44.2          | 34.25                      | 54                           | -19.75      | -                      | -              | -                    | -              | 40             | 163         | V        |
| * 1.04          | 63.18                | AD1 | 19.6            | -44.22         | 38.56                      | 54                           | -15.44      | -                      | -              | -                    | -              | 348            | 165         | H        |
| * 1.17          | 62.08                | AD1 | 19.9            | -44.18         | 37.8                       | 54                           | -16.2       | -                      | -              | -                    | -              | 61             | 247         | H        |
| * 1.17          | 69.45                | AD1 | 19.9            | -44.18         | 45.17                      | 54                           | -8.83       | -                      | -              | -                    | -              | 353            | 115         | V        |
| * 1.3           | 61.84                | AD1 | 20.5            | -44.05         | 38.29                      | 54                           | -15.71      | -                      | -              | -                    | -              | 8              | 154         | V        |
| * 1.3           | 62.29                | AD1 | 20.5            | -44.05         | 38.74                      | 54                           | -15.26      | -                      | -              | -                    | -              | 58             | 178         | H        |
| * 1.235         | 60.43                | AD1 | 20              | -44.13         | 36.3                       | 54                           | -17.7       | -                      | -              | -                    | -              | 71             | 307         | H        |
| * 1.235         | 58.17                | AD1 | 20              | -44.13         | 34.04                      | 54                           | -19.96      | -                      | -              | -                    | -              | 304            | 262         | V        |
| * 1.04          | 73.55                | PK1 | 19.6            | -44.23         | 48.92                      | -                            | -           | 74                     | -25.08         | -                    | -              | 40             | 163         | V        |
| * 1.04          | 77.41                | PK1 | 19.6            | -44.23         | 52.78                      | -                            | -           | 74                     | -21.22         | -                    | -              | 348            | 165         | H        |
| * 1.17          | 76.28                | PK1 | 19.9            | -44.18         | 52                         | -                            | -           | 74                     | -22            | -                    | -              | 61             | 247         | H        |
| * 1.17          | 79.21                | PK1 | 19.9            | -44.18         | 54.93                      | -                            | -           | 74                     | -19.07         | -                    | -              | 353            | 115         | V        |
| * 1.3           | 73.73                | PK1 | 20.5            | -44.05         | 50.18                      | -                            | -           | 74                     | -23.82         | -                    | -              | 8              | 154         | V        |
| * 1.3           | 75.86                | PK1 | 20.5            | -44.04         | 52.32                      | -                            | -           | 74                     | -21.68         | -                    | -              | 58             | 178         | H        |
| * 1.235         | 72.51                | PK1 | 20              | -44.13         | 48.38                      | -                            | -           | 74                     | -25.62         | -                    | -              | 71             | 307         | H        |
| * 1.235         | 69.89                | PK1 | 20              | -44.14         | 45.75                      | -                            | -           | 74                     | -28.25         | -                    | -              | 304            | 262         | V        |
| 1.912           | 80.91                | PK1 | 21.7            | -43.61         | 59                         | -                            | -           | -                      | -              | 68.2                 | -9.2           | 205            | 308         | V        |
| 1.911           | 73.54                | PK1 | 21.7            | -43.49         | 51.75                      | -                            | -           | -                      | -              | 68.2                 | -16.45         | 72             | 262         | H        |
| 1.846           | 62.67                | PK1 | 21.3            | -43.63         | 40.34                      | -                            | -           | -                      | -              | 68.2                 | -27.86         | 209            | 171         | H        |
| 1.98            | 75.73                | PK1 | 22.1            | -43.31         | 54.52                      | -                            | -           | -                      | -              | 68.2                 | -13.68         | 176            | 247         | V        |
| 1.999           | 77.85                | PK1 | 22.2            | -43.43         | 56.62                      | -                            | -           | -                      | -              | 68.2                 | -11.58         | 176            | 247         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| 2.02            | 69.71                | PK1 | 21              | -40.7          | 50.01                      | -                            | -           | -                      | -              | 68.2                 | -18.19         | 192            | 332         | V        |
| 2.076           | 63.36                | PK1 | 21.2            | -41.22         | 43.34                      | -                            | -           | -                      | -              | 68.2                 | -24.86         | 0              | 173         | V        |
| 2.042           | 70.1                 | PK1 | 21.1            | -41.22         | 49.98                      | -                            | -           | -                      | -              | 68.2                 | -18.22         | 214            | 365         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

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

**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL CHAIN A**



# DATA

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| 2.016           | 76.46                | PK1 | 21              | -40.57         | 56.89                      | -                            | -           | -                      | -              | 68.2                 | -11.31         | 207            | 262         | V        |
| 2.03            | 73.83                | PK1 | 21.1            | -40.85         | 54.08                      | -                            | -           | -                      | -              | 68.2                 | -14.12         | 148            | 335         | V        |
| 2.074           | 65.81                | PK1 | 21.1            | -41.29         | 45.62                      | -                            | -           | -                      | -              | 68.2                 | -22.58         | 336            | 110         | V        |
| 2.125           | 65.76                | PK1 | 21.3            | -41.55         | 45.51                      | -                            | -           | -                      | -              | 68.2                 | -22.69         | 334            | 262         | V        |

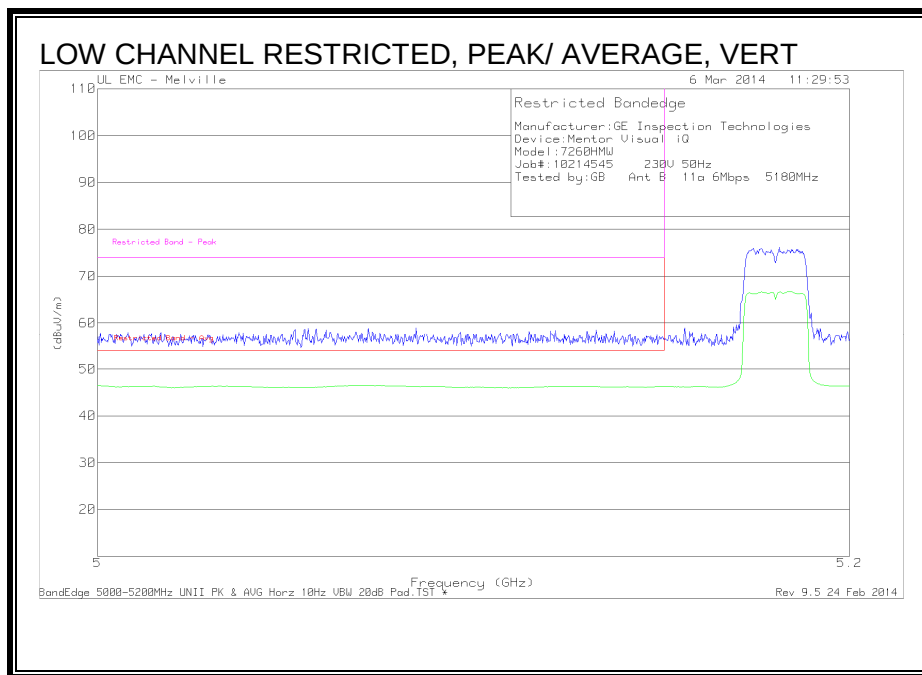
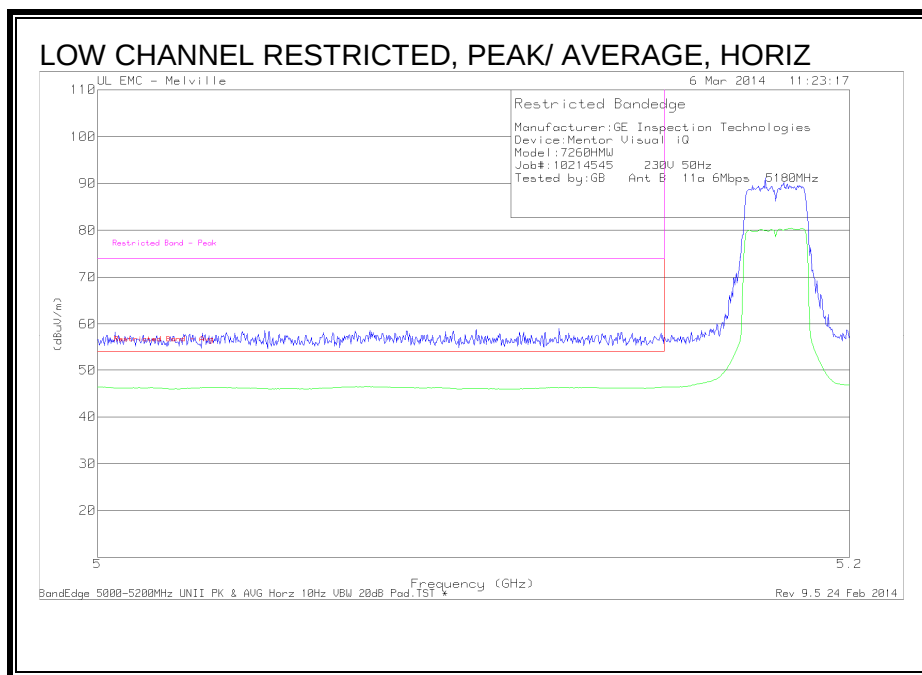
Note: No spurious emissions observed beyond the fundamental frequency

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

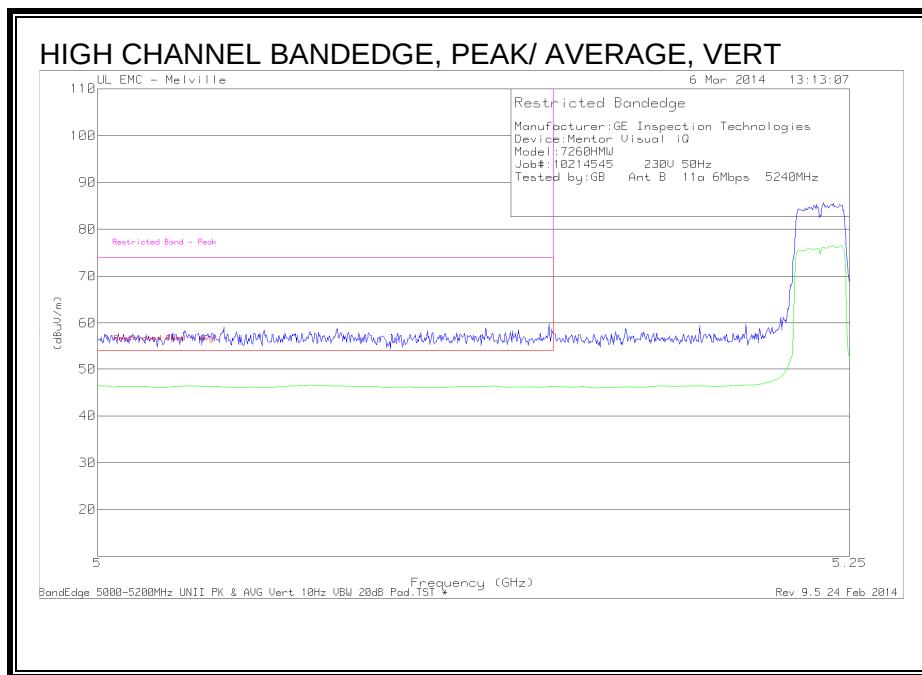
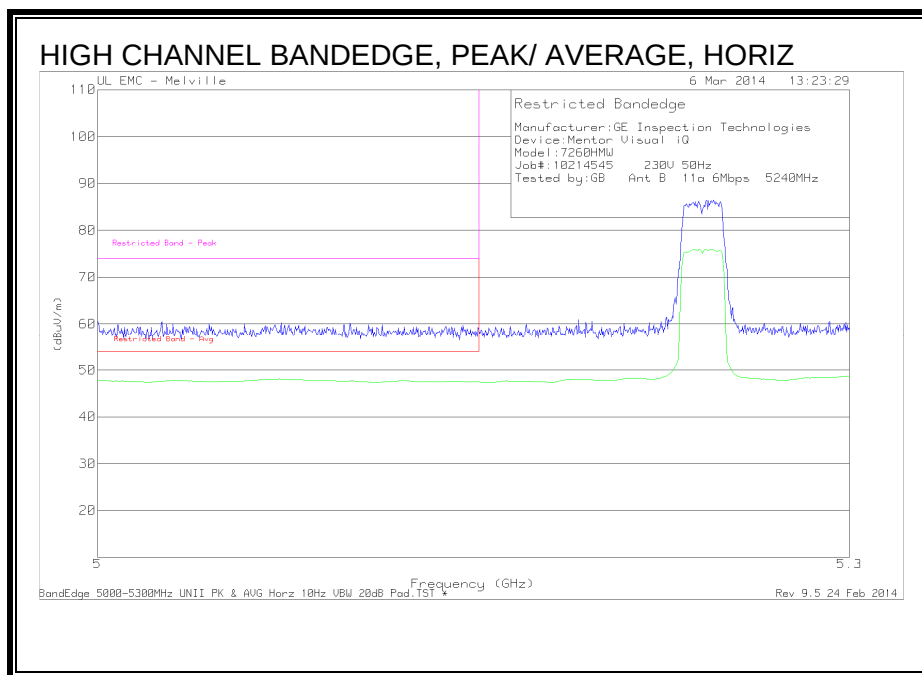
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

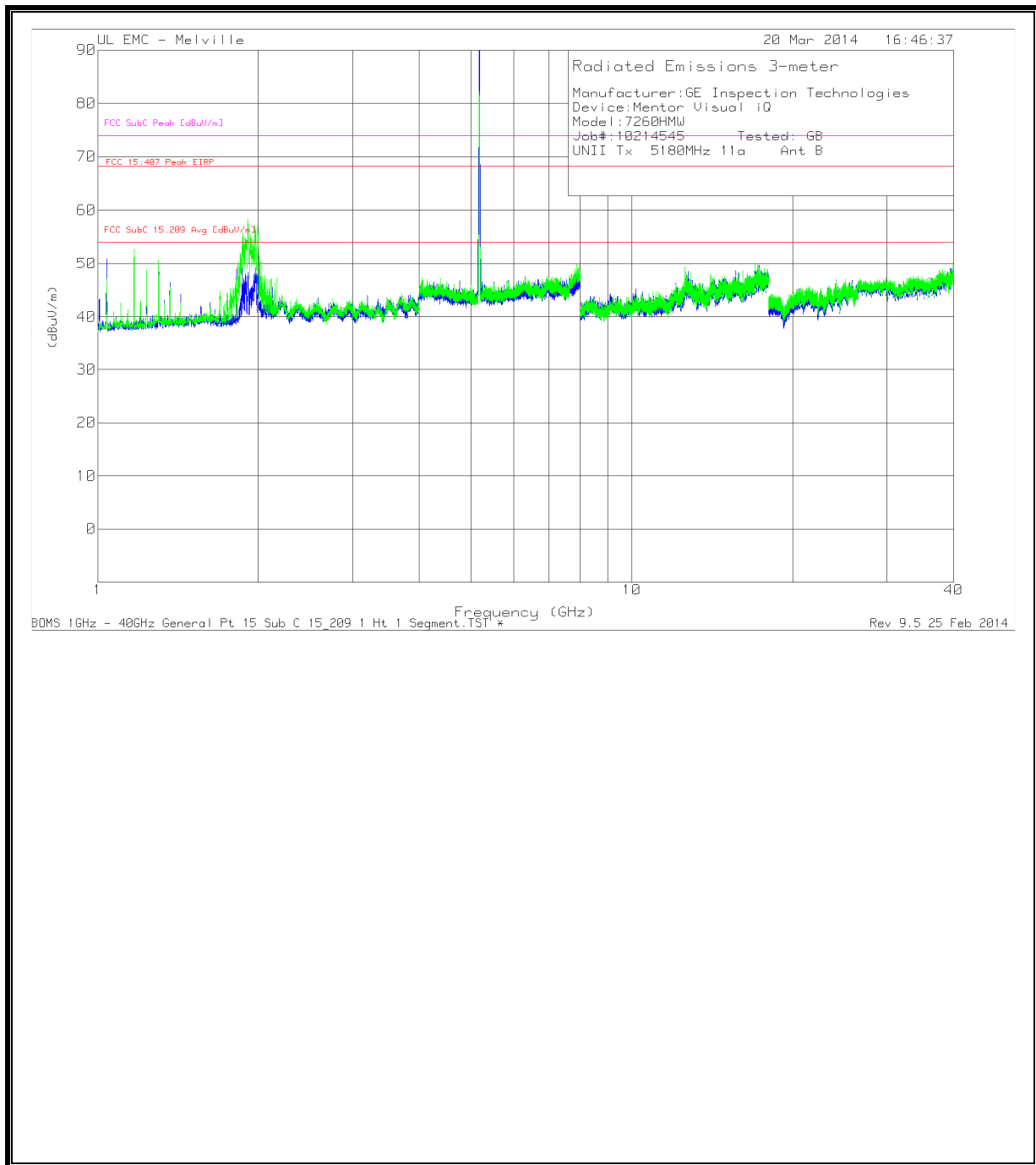
**RESTRICTED BANDEDGE (LOW CHANNEL CHAIN B)**



**AUTHORIZED BANDEDGE (HIGH CHANNEL CHAIN B)**



**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL CHAIN B**



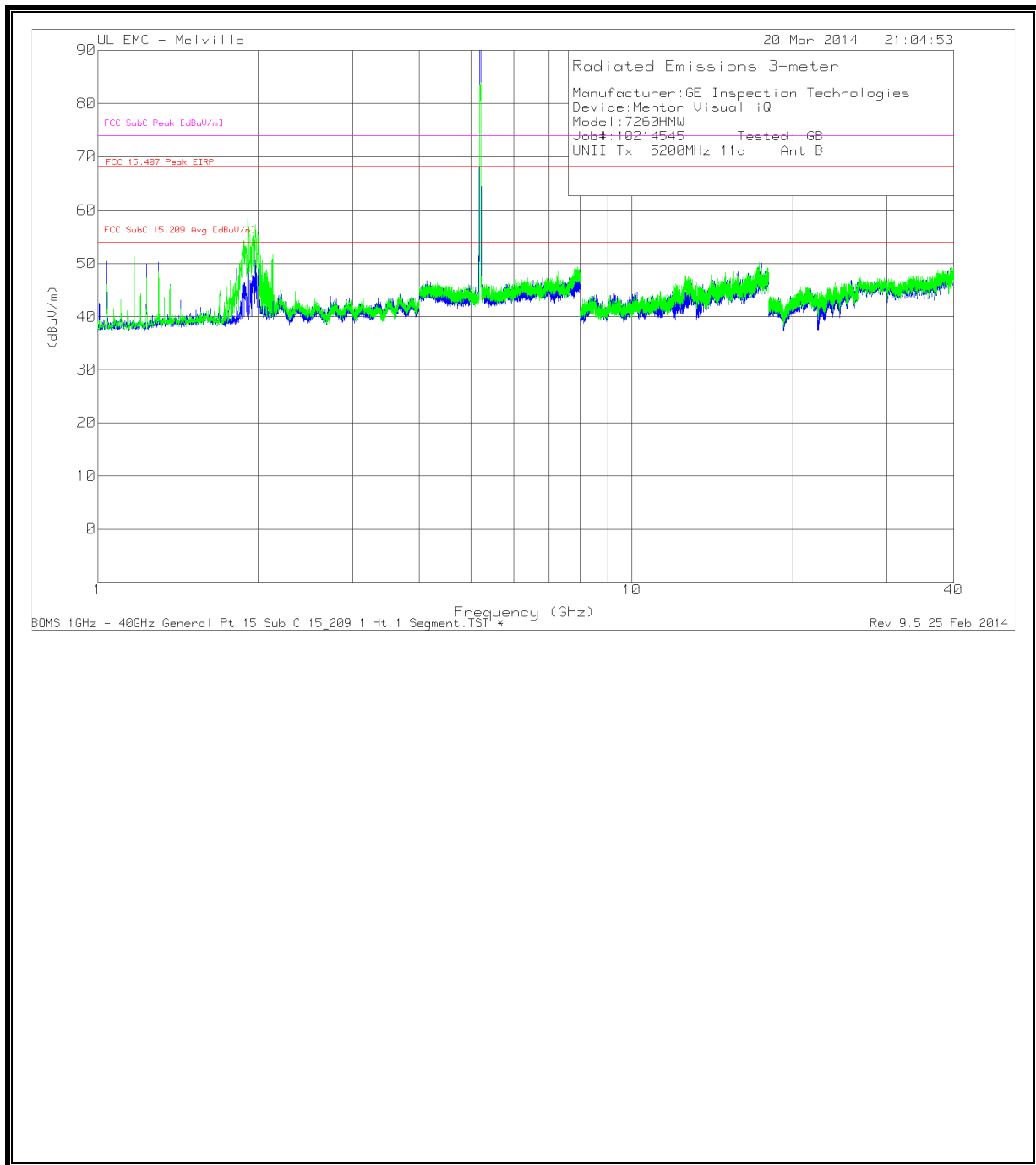
**DATA**

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

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

**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL CHAIN B**



# DATA

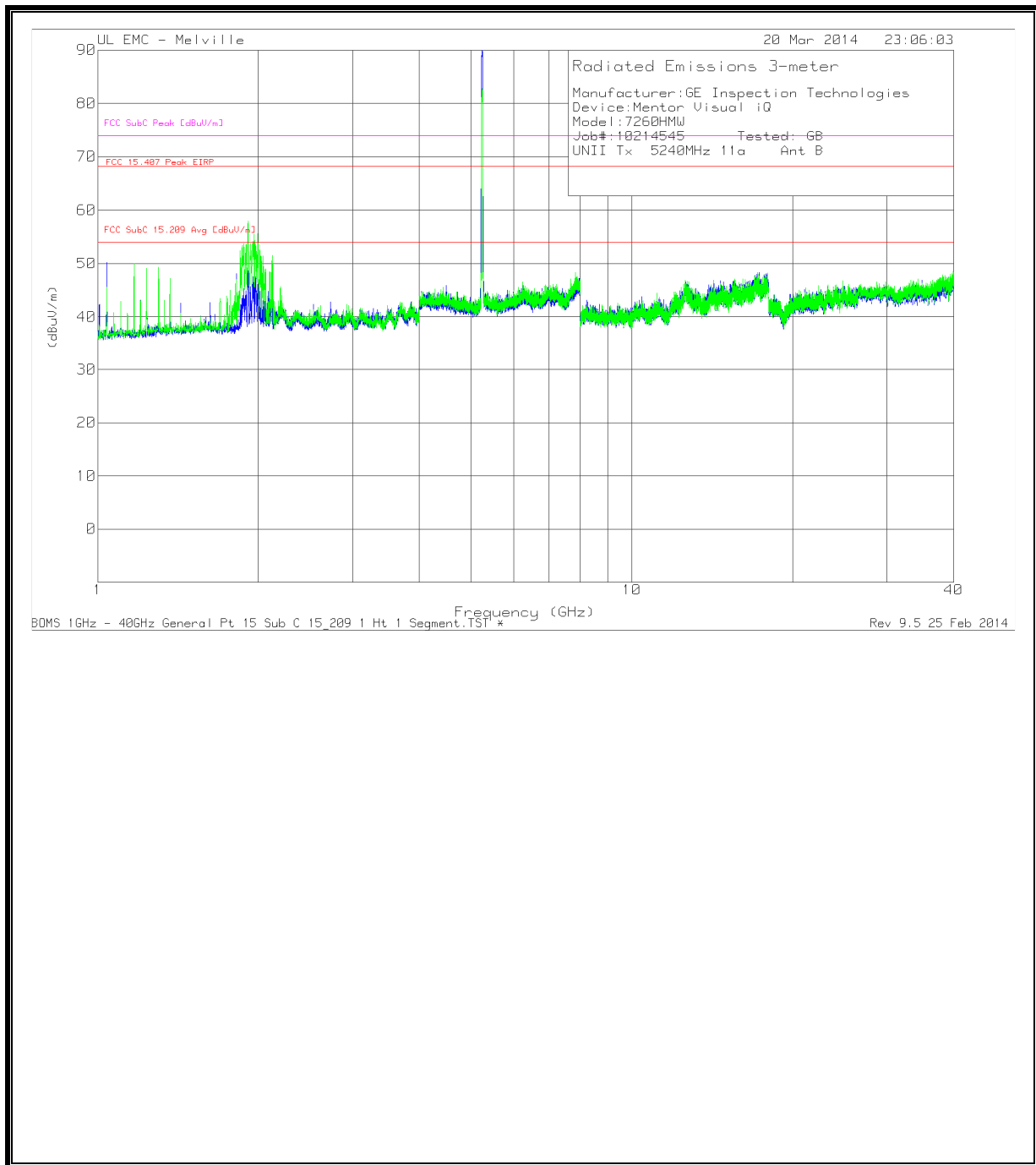
| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

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

**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL CHAIN B**



# DATA

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

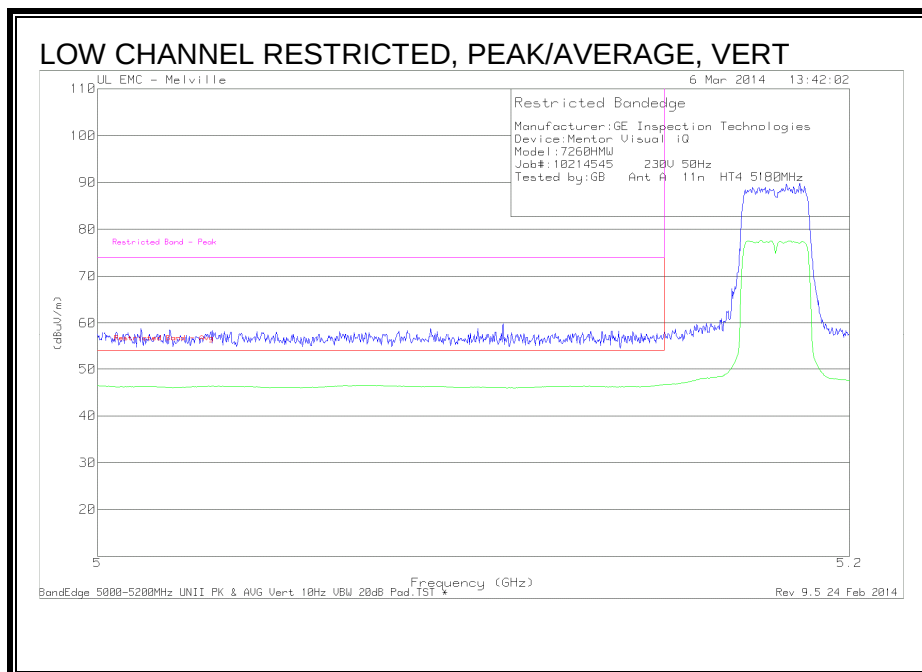
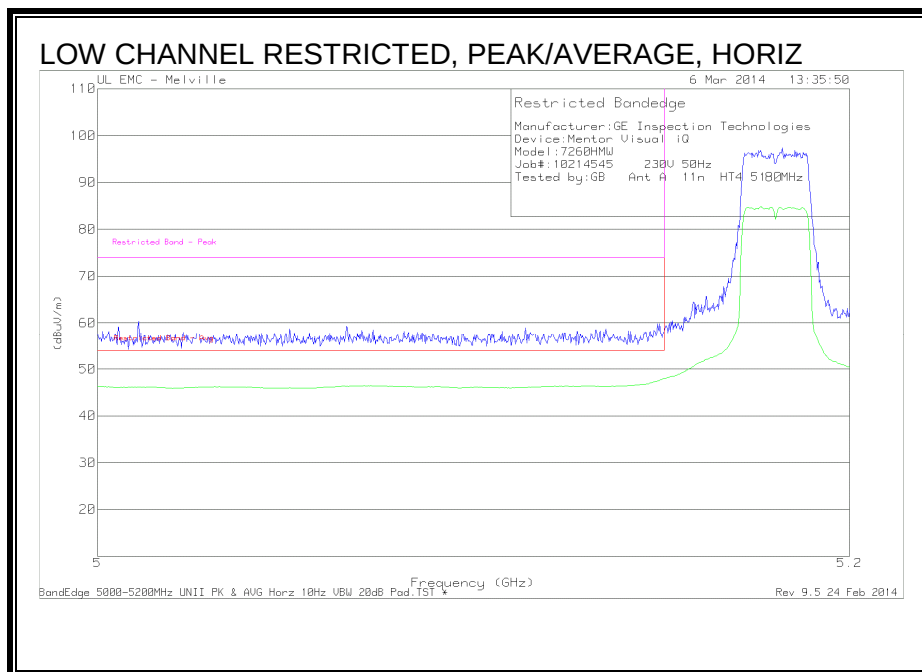
| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

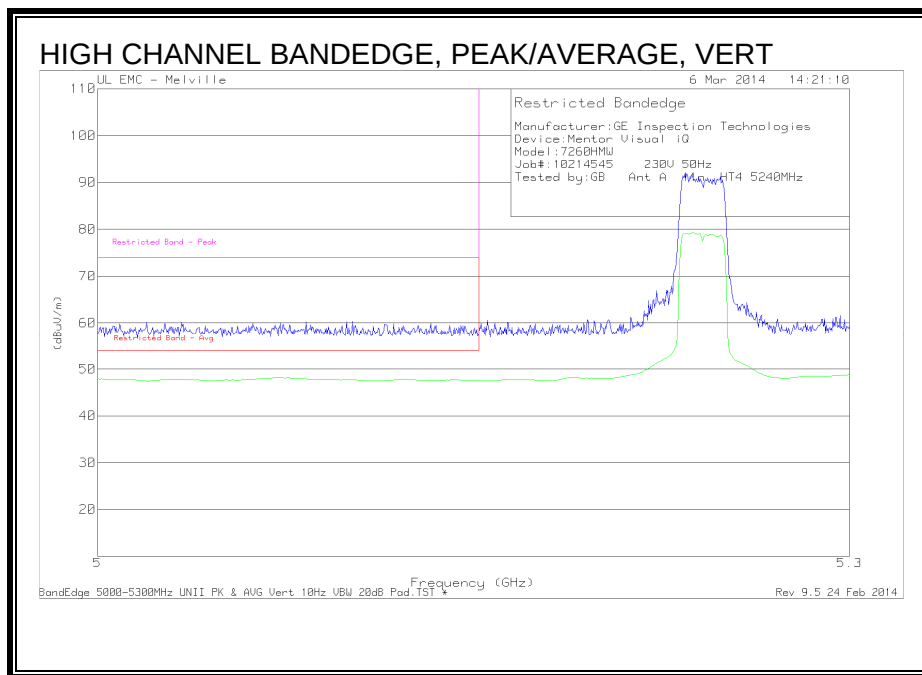
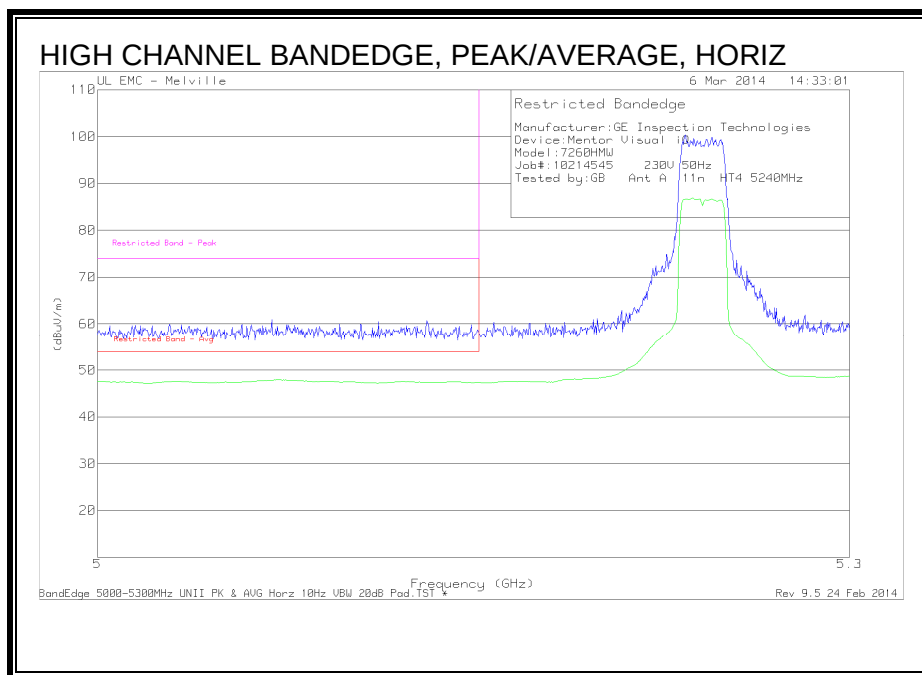
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band  
PK1 - KDB789033 Method: Peak  
AD1 - KDB789033 Method: AD Primary Power Average

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

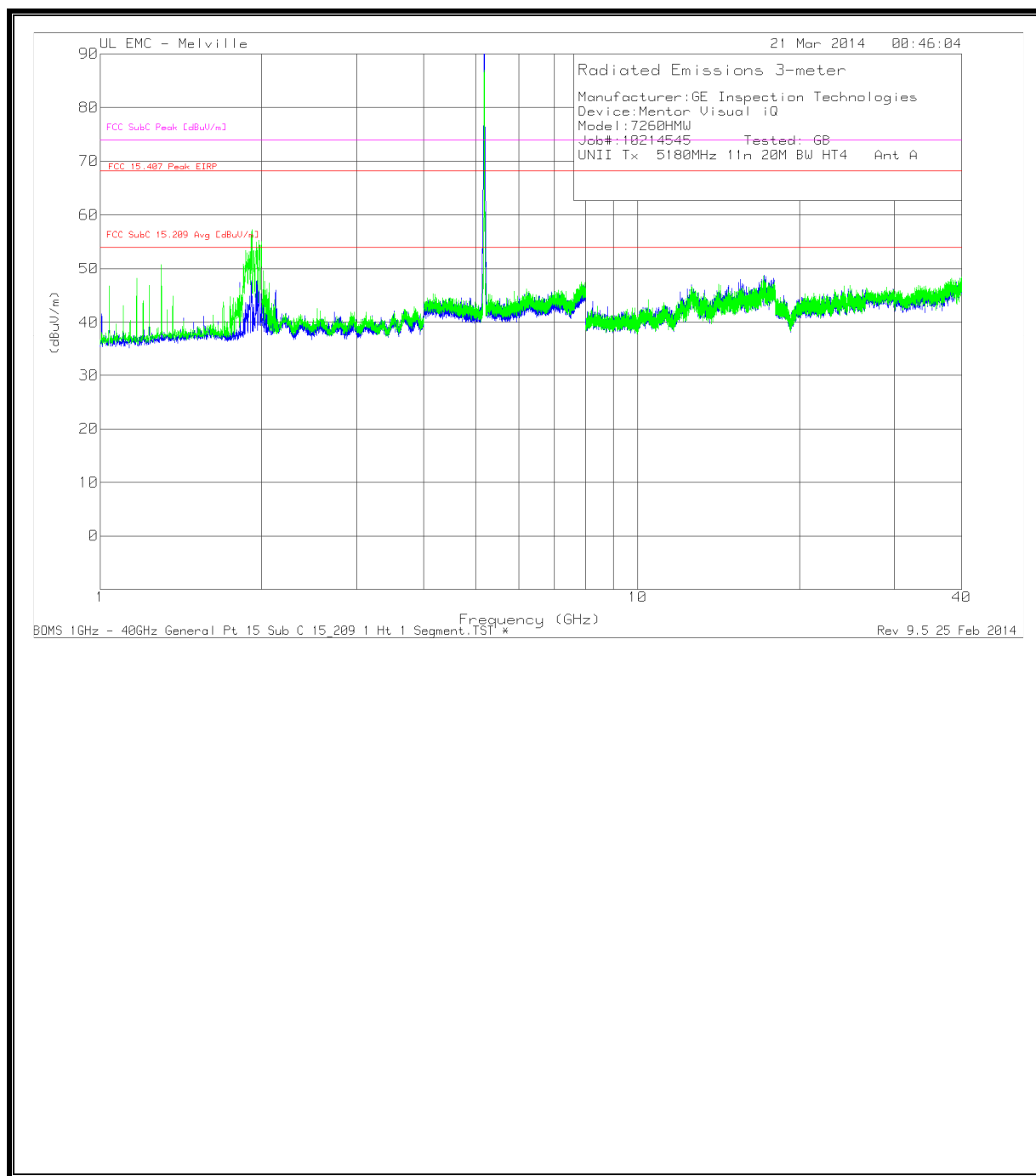
#### 8.3.1 RESTRICTED BANDEDGE (LOW CHANNEL CHAIN A)



**AUTHORIZED BANDEDGE (HIGH CHANNEL CHAIN A)**



**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL CHAIN A**



# DATA

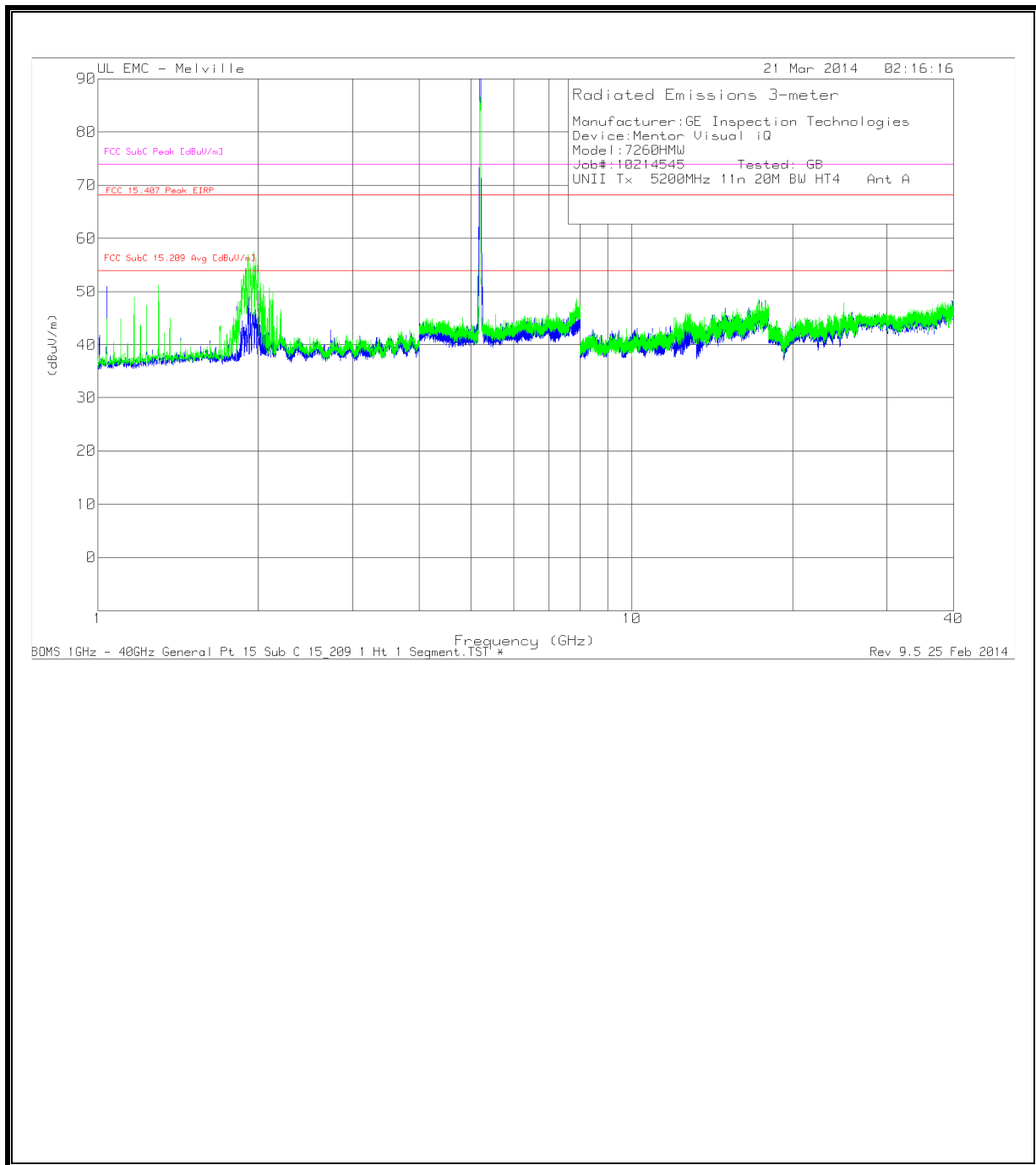
| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 59.89                | AD1 | 19.6            | -44.23         | 35.26                      | 54                           | -18.74      | -                      | -              | -                    | -              | 309            | 146         | V        |
| * 1.04          | 60.34                | AD1 | 19.6            | -44.22         | 35.72                      | 54                           | -18.28      | -                      | -              | -                    | -              | 349            | 146         | H        |
| * 1.17          | 57.83                | AD1 | 19.9            | -44.21         | 33.52                      | 54                           | -20.48      | -                      | -              | -                    | -              | 161            | 190         | H        |
| * 1.17          | 67.61                | AD1 | 19.9            | -44.18         | 43.33                      | 54                           | -10.67      | -                      | -              | -                    | -              | 331            | 260         | V        |
| * 1.235         | 62.83                | AD1 | 20              | -44.14         | 38.69                      | 54                           | -15.31      | -                      | -              | -                    | -              | 40             | 176         | V        |
| * 1.235         | 55.18                | AD1 | 20              | -44.13         | 31.05                      | 54                           | -22.95      | -                      | -              | -                    | -              | 153            | 356         | H        |
| * 1.3           | 62.95                | AD1 | 20.5            | -44.05         | 39.4                       | 54                           | -14.6       | -                      | -              | -                    | -              | 288            | 244         | H        |
| * 1.3           | 60.41                | AD1 | 20.5            | -44.05         | 36.86                      | 54                           | -17.14      | -                      | -              | -                    | -              | 53             | 138         | V        |
| * 1.04          | 72.82                | PK1 | 19.6            | -44.22         | 48.2                       | -                            | -           | 74                     | -25.8          | -                    | -              | 309            | 146         | V        |
| * 1.04          | 76.24                | PK1 | 19.6            | -44.22         | 51.62                      | -                            | -           | 74                     | -22.38         | -                    | -              | 349            | 146         | H        |
| * 1.17          | 72.31                | PK1 | 19.9            | -44.19         | 48.02                      | -                            | -           | 74                     | -25.98         | -                    | -              | 161            | 190         | H        |
| * 1.17          | 77.71                | PK1 | 19.9            | -44.2          | 53.41                      | -                            | -           | 74                     | -20.59         | -                    | -              | 331            | 260         | V        |
| * 1.235         | 73.84                | PK1 | 20              | -44.13         | 49.71                      | -                            | -           | 74                     | -24.29         | -                    | -              | 40             | 176         | V        |
| * 1.235         | 68.08                | PK1 | 20              | -44.14         | 43.94                      | -                            | -           | 74                     | -30.06         | -                    | -              | 153            | 356         | H        |
| * 1.3           | 75.86                | PK1 | 20.5            | -44.05         | 52.31                      | -                            | -           | 74                     | -21.69         | -                    | -              | 288            | 244         | H        |
| * 1.3           | 73.16                | PK1 | 20.5            | -44.05         | 49.61                      | -                            | -           | 74                     | -24.39         | -                    | -              | 53             | 138         | V        |
| 1.85            | 77.63                | PK1 | 21.3            | -43.74         | 55.19                      | -                            | -           | -                      | -              | 68.2                 | -13.01         | 202            | 284         | V        |
| 1.878           | 79.07                | PK1 | 21.5            | -43.63         | 56.94                      | -                            | -           | -                      | -              | 68.2                 | -11.26         | 151            | 177         | V        |
| 1.869           | 79.96                | PK1 | 21.4            | -43.7          | 57.66                      | -                            | -           | -                      | -              | 68.2                 | -10.54         | 151            | 177         | V        |
| 1.916           | 79.39                | PK1 | 21.7            | -43.58         | 57.51                      | -                            | -           | -                      | -              | 68.2                 | -10.69         | 137            | 144         | V        |
| 1.97            | 80.88                | PK1 | 22              | -43.34         | 59.54                      | -                            | -           | -                      | -              | 68.2                 | -8.66          | 182            | 327         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| 2.016           | 76.46                | PK1 | 21              | -40.57         | 56.89                      | -                            | -           | -                      | -              | 68.2                 | -11.31         | 207            | 262         | V        |
| 2.03            | 73.83                | PK1 | 21.1            | -40.85         | 54.08                      | -                            | -           | -                      | -              | 68.2                 | -14.12         | 148            | 335         | V        |
| 2.074           | 65.81                | PK1 | 21.1            | -41.29         | 45.62                      | -                            | -           | -                      | -              | 68.2                 | -22.58         | 336            | 110         | V        |
| 2.125           | 65.76                | PK1 | 21.3            | -41.55         | 45.51                      | -                            | -           | -                      | -              | 68.2                 | -22.69         | 334            | 262         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

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

**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL CHAIN A**



**DATA**

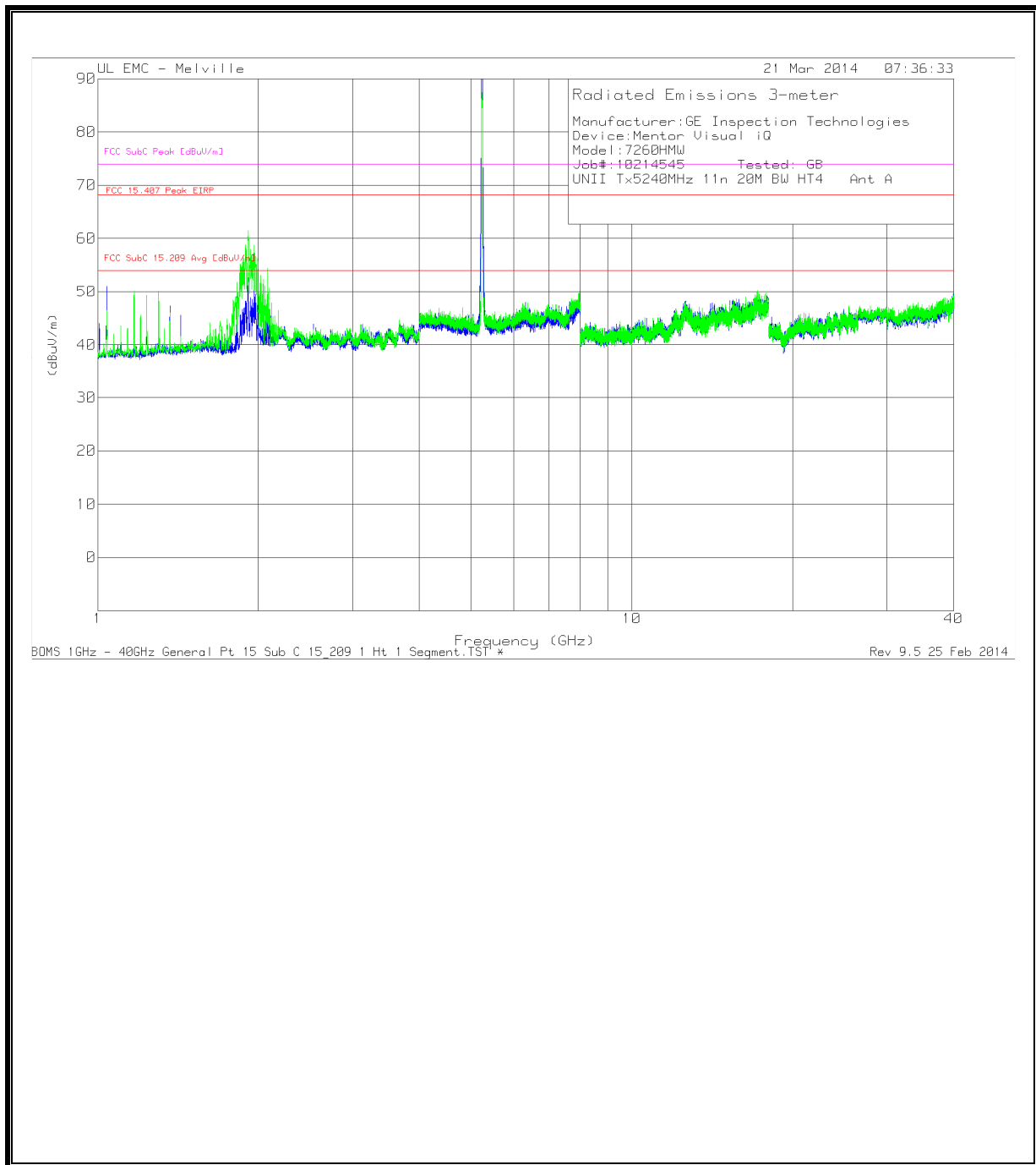
| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 58.85                | AD1 | 19.6            | -44.2          | 34.25                      | 54                           | -19.75      | -                      | -              | -                    | -              | 40             | 163         | V        |
| * 1.04          | 63.18                | AD1 | 19.6            | -44.22         | 38.56                      | 54                           | -15.44      | -                      | -              | -                    | -              | 348            | 165         | H        |
| * 1.17          | 62.08                | AD1 | 19.9            | -44.18         | 37.8                       | 54                           | -16.2       | -                      | -              | -                    | -              | 61             | 247         | H        |
| * 1.17          | 69.45                | AD1 | 19.9            | -44.18         | 45.17                      | 54                           | -8.83       | -                      | -              | -                    | -              | 353            | 115         | V        |
| * 1.3           | 61.84                | AD1 | 20.5            | -44.05         | 38.29                      | 54                           | -15.71      | -                      | -              | -                    | -              | 8              | 154         | V        |
| * 1.3           | 62.29                | AD1 | 20.5            | -44.05         | 38.74                      | 54                           | -15.26      | -                      | -              | -                    | -              | 58             | 178         | H        |
| * 1.235         | 60.43                | AD1 | 20              | -44.13         | 36.3                       | 54                           | -17.7       | -                      | -              | -                    | -              | 71             | 307         | H        |
| * 1.235         | 58.17                | AD1 | 20              | -44.13         | 34.04                      | 54                           | -19.96      | -                      | -              | -                    | -              | 304            | 262         | V        |
| * 1.04          | 73.55                | PK1 | 19.6            | -44.23         | 48.92                      | -                            | -           | 74                     | -25.08         | -                    | -              | 40             | 163         | V        |
| * 1.04          | 77.41                | PK1 | 19.6            | -44.23         | 52.78                      | -                            | -           | 74                     | -21.22         | -                    | -              | 348            | 165         | H        |
| * 1.17          | 76.28                | PK1 | 19.9            | -44.18         | 52                         | -                            | -           | 74                     | -22            | -                    | -              | 61             | 247         | H        |
| * 1.17          | 79.21                | PK1 | 19.9            | -44.18         | 54.93                      | -                            | -           | 74                     | -19.07         | -                    | -              | 353            | 115         | V        |
| * 1.3           | 73.73                | PK1 | 20.5            | -44.05         | 50.18                      | -                            | -           | 74                     | -23.82         | -                    | -              | 8              | 154         | V        |
| * 1.3           | 75.86                | PK1 | 20.5            | -44.04         | 52.32                      | -                            | -           | 74                     | -21.68         | -                    | -              | 58             | 178         | H        |
| * 1.235         | 72.51                | PK1 | 20              | -44.13         | 48.38                      | -                            | -           | 74                     | -25.62         | -                    | -              | 71             | 307         | H        |
| * 1.235         | 69.89                | PK1 | 20              | -44.14         | 45.75                      | -                            | -           | 74                     | -28.25         | -                    | -              | 304            | 262         | V        |
| 1.912           | 80.91                | PK1 | 21.7            | -43.61         | 59                         | -                            | -           | -                      | -              | 68.2                 | -9.2           | 205            | 308         | V        |
| 1.911           | 73.54                | PK1 | 21.7            | -43.49         | 51.75                      | -                            | -           | -                      | -              | 68.2                 | -16.45         | 72             | 262         | H        |
| 1.846           | 62.67                | PK1 | 21.3            | -43.63         | 40.34                      | -                            | -           | -                      | -              | 68.2                 | -27.86         | 209            | 171         | H        |
| 1.98            | 75.73                | PK1 | 22.1            | -43.31         | 54.52                      | -                            | -           | -                      | -              | 68.2                 | -13.68         | 176            | 247         | V        |
| 1.999           | 77.85                | PK1 | 22.2            | -43.43         | 56.62                      | -                            | -           | -                      | -              | 68.2                 | -11.58         | 176            | 247         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

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

**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL CHAIN A**



DATA

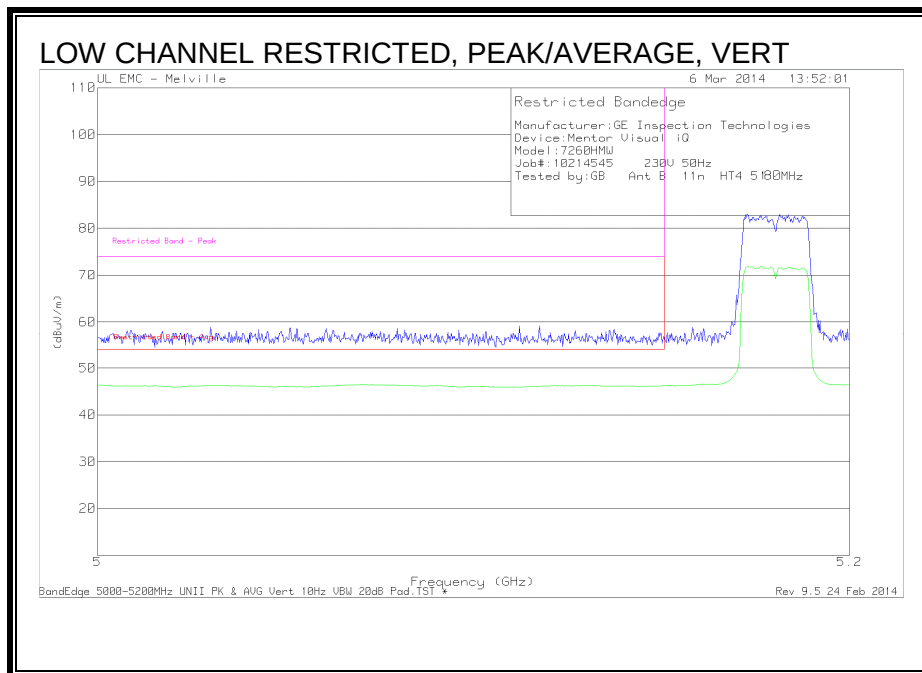
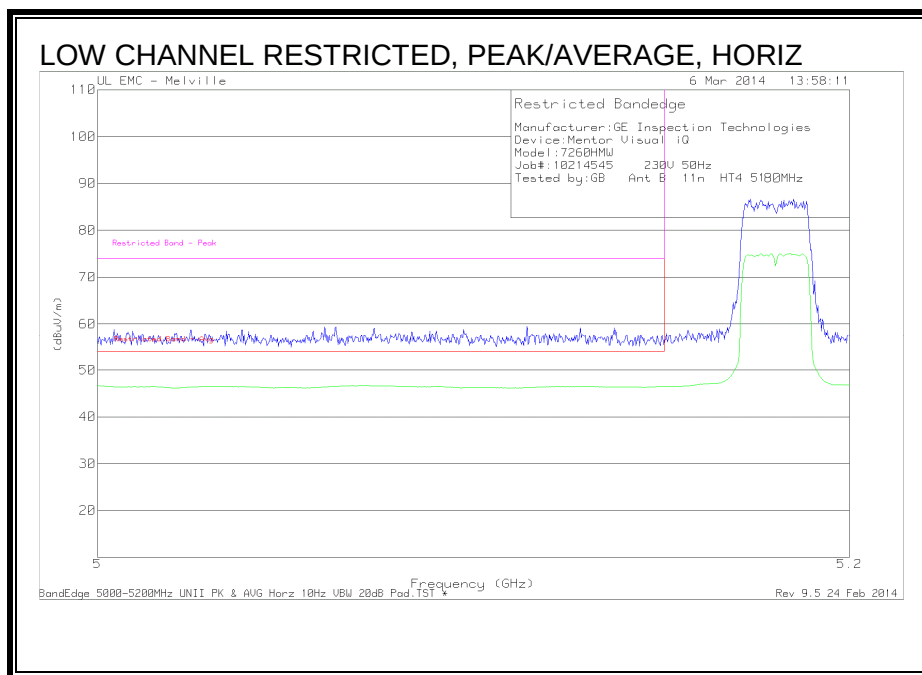
| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| 1.917           | 61.18                | AD1 | 21.7            | -43.51         | 39.37                      | 54                           | -14.63      | -                      | -              | -                    | -              | 199            | 272         | V        |
| 1.972           | 59.02                | AD1 | 22              | -43.48         | 37.54                      | 54                           | -16.46      | -                      | -              | -                    | -              | 200            | 105         | V        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

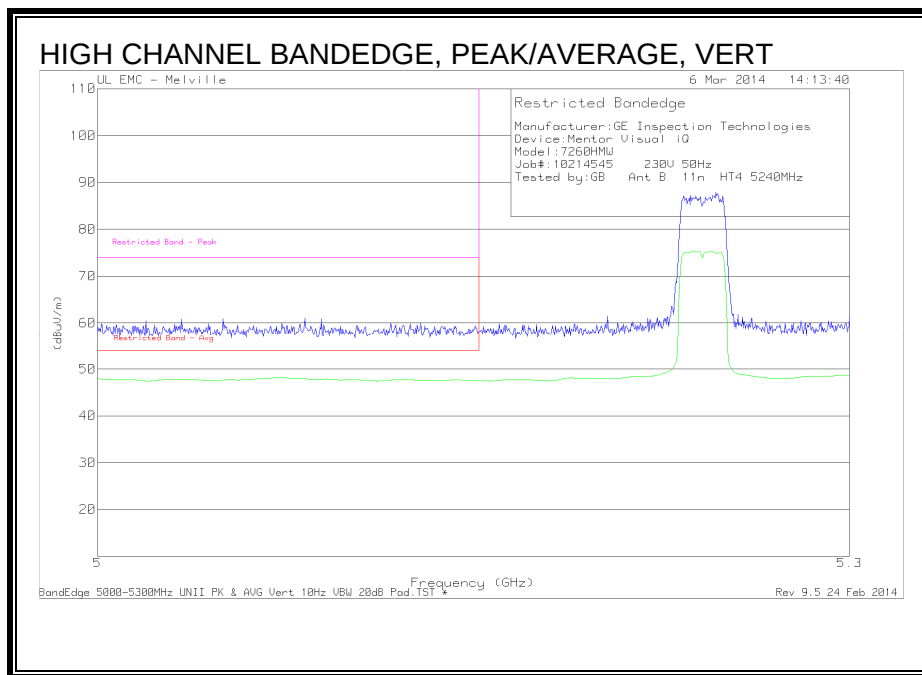
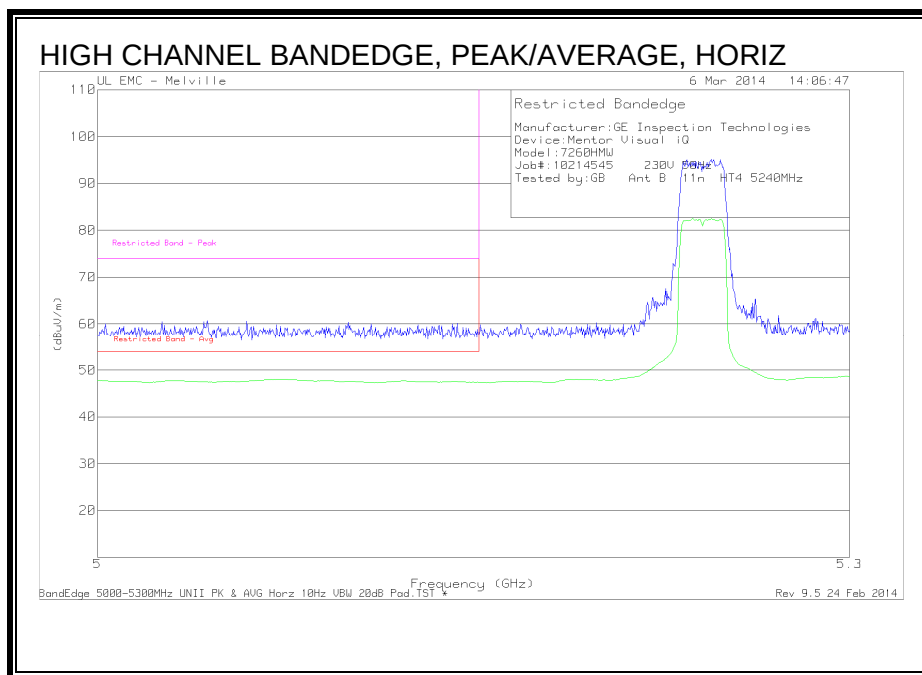
Note: No spurious emissions observed beyond the fundamental frequency

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

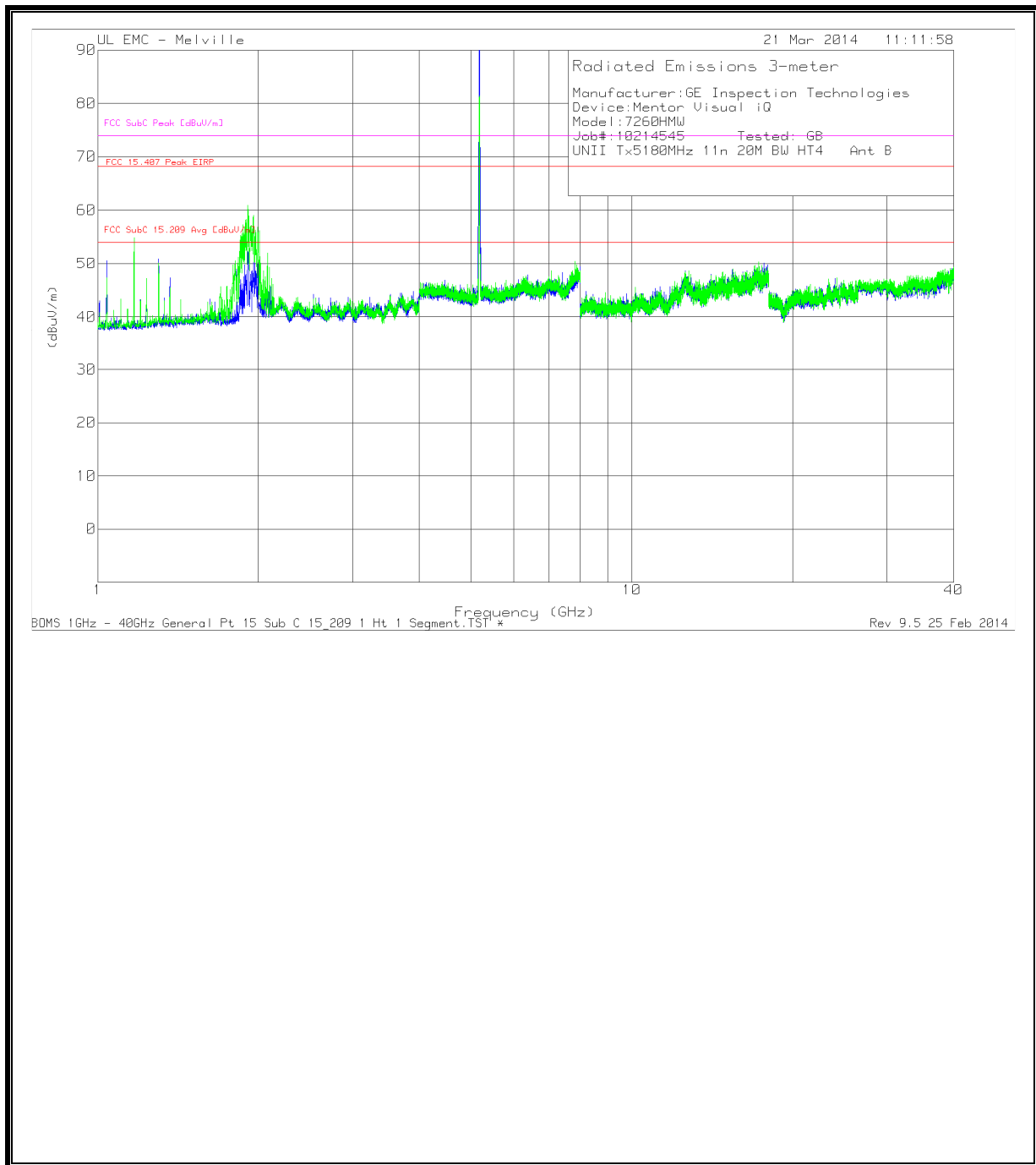
**RESTRICTED BANDEDGE (LOW CHANNEL CHAIN B)**



**AUTHORIZED BANDEDGE (HIGH CHANNEL CHAIN B)**



**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL CHAIN B**



**DATA**

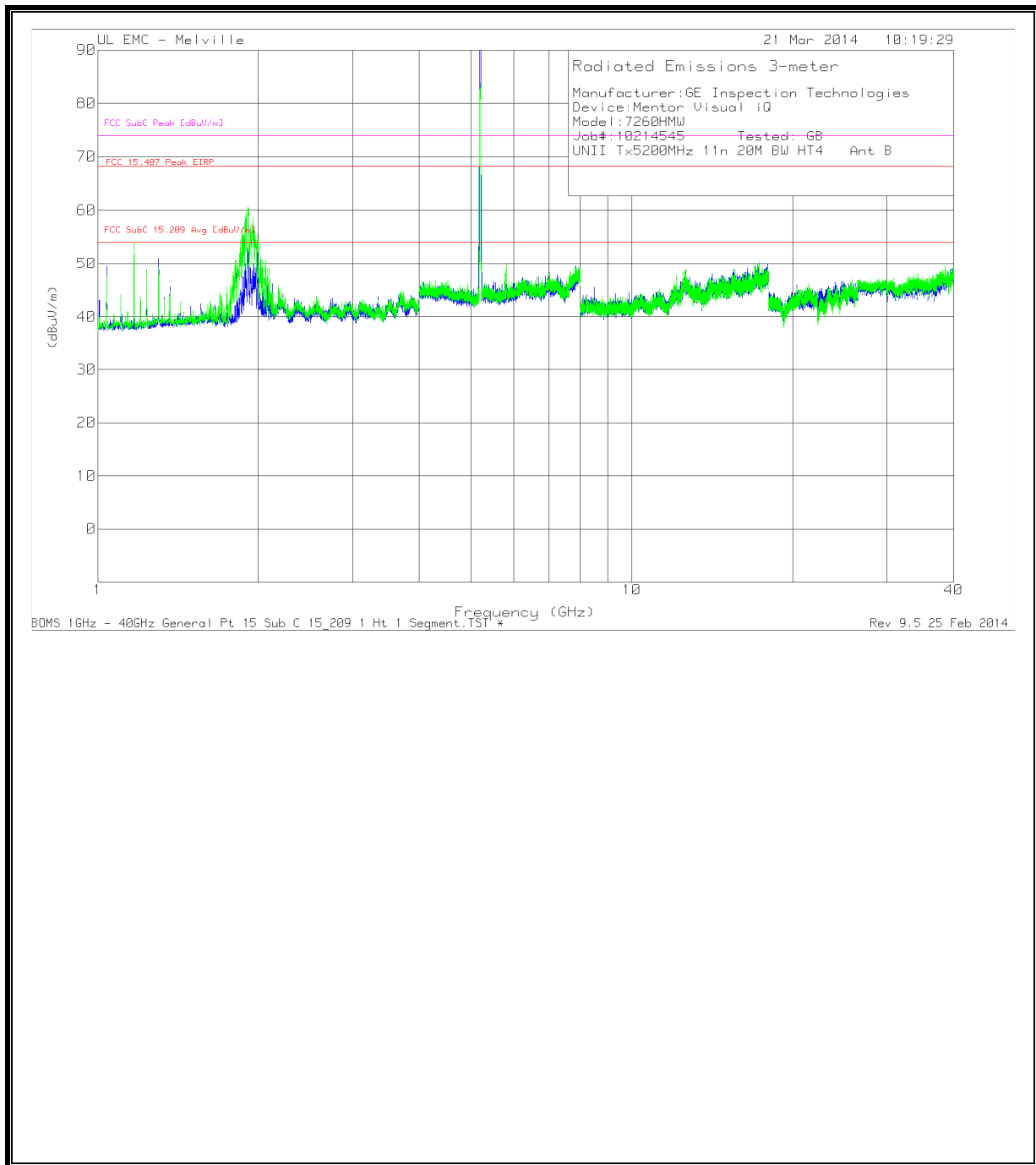
| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

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

**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL CHAIN B**



DATA

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

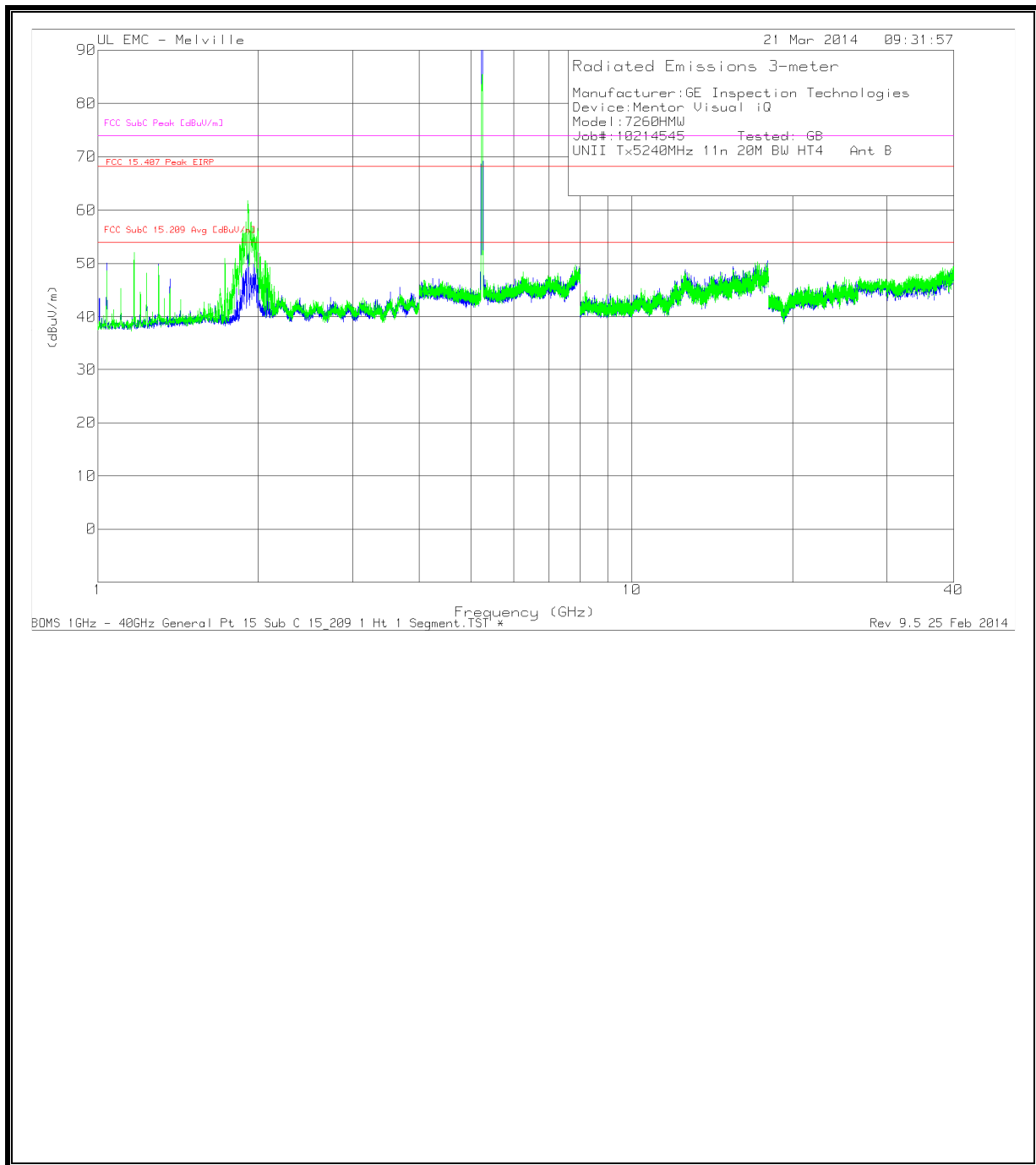
Note: No spurious emissions observed beyond the fundamental frequency

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL CHAIN B**



# DATA

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

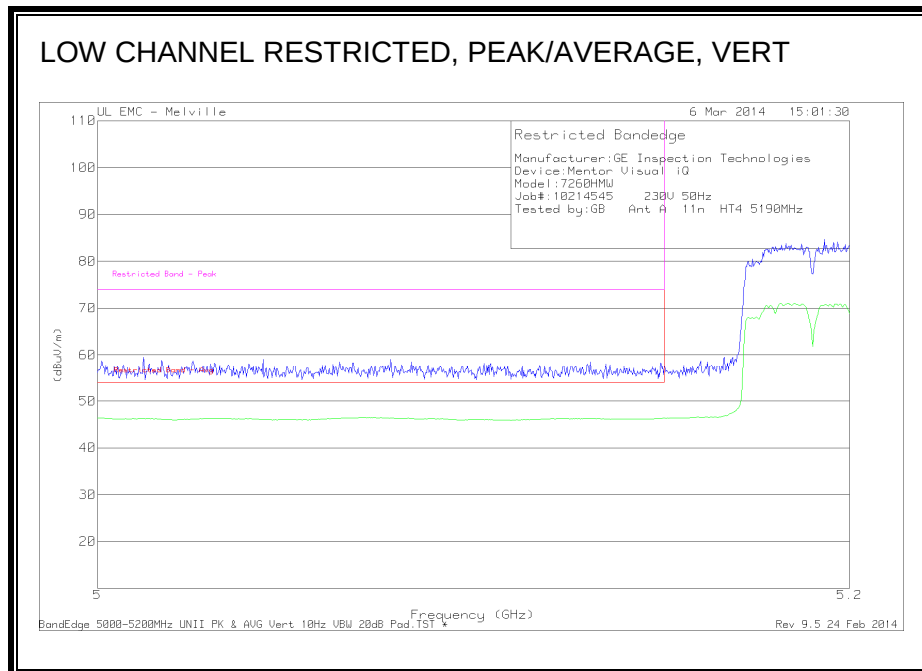
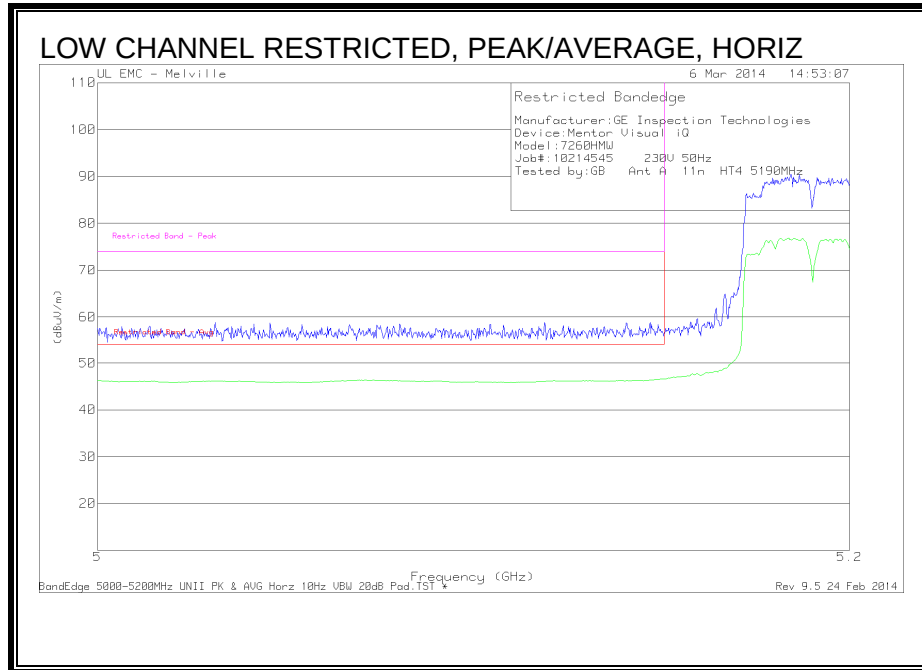
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

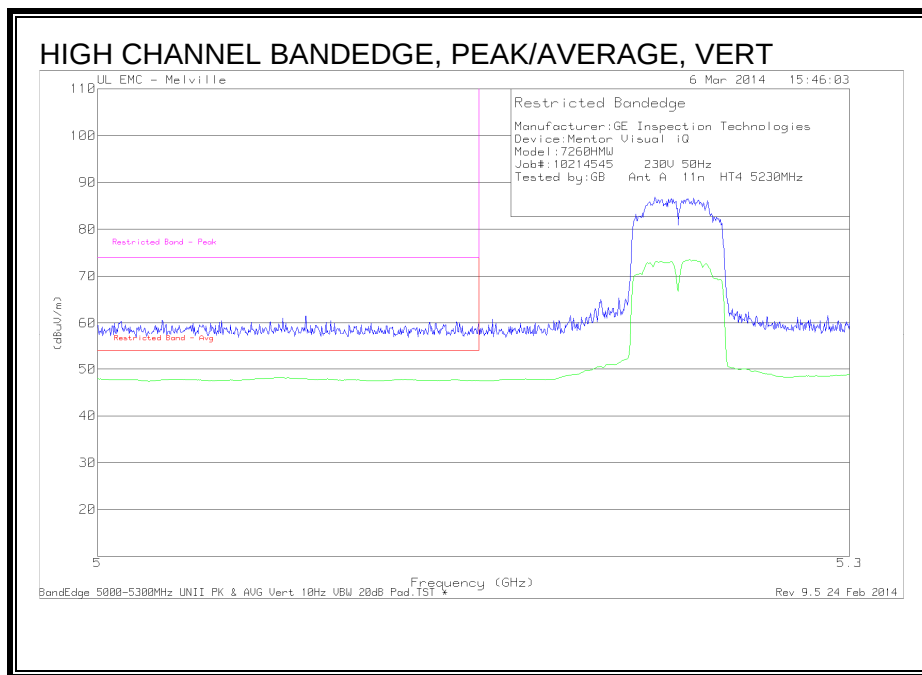
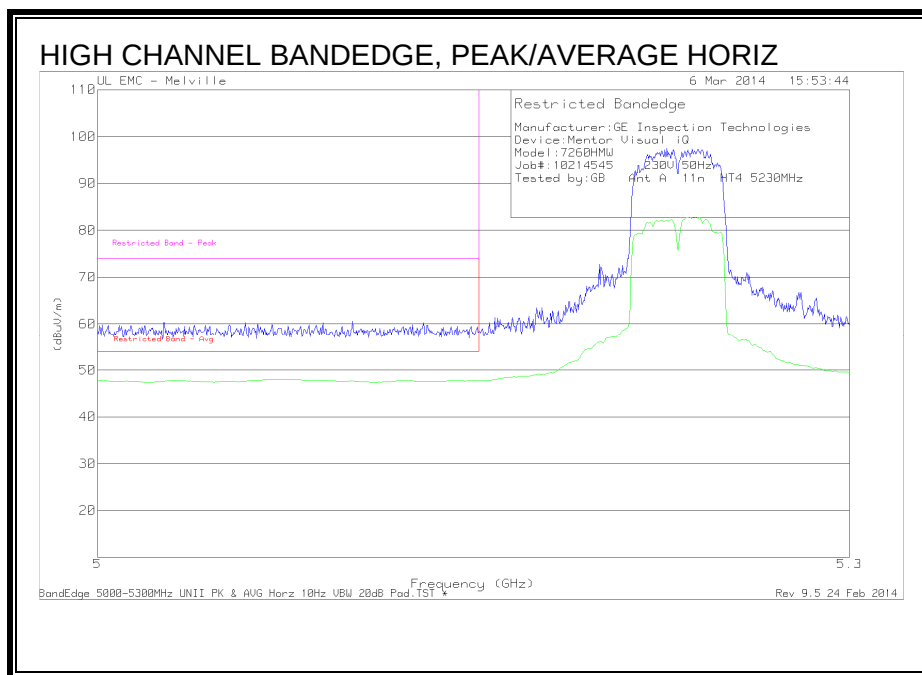
AD1 - KDB789033 Method: AD Primary Power Average

## 8.4. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND

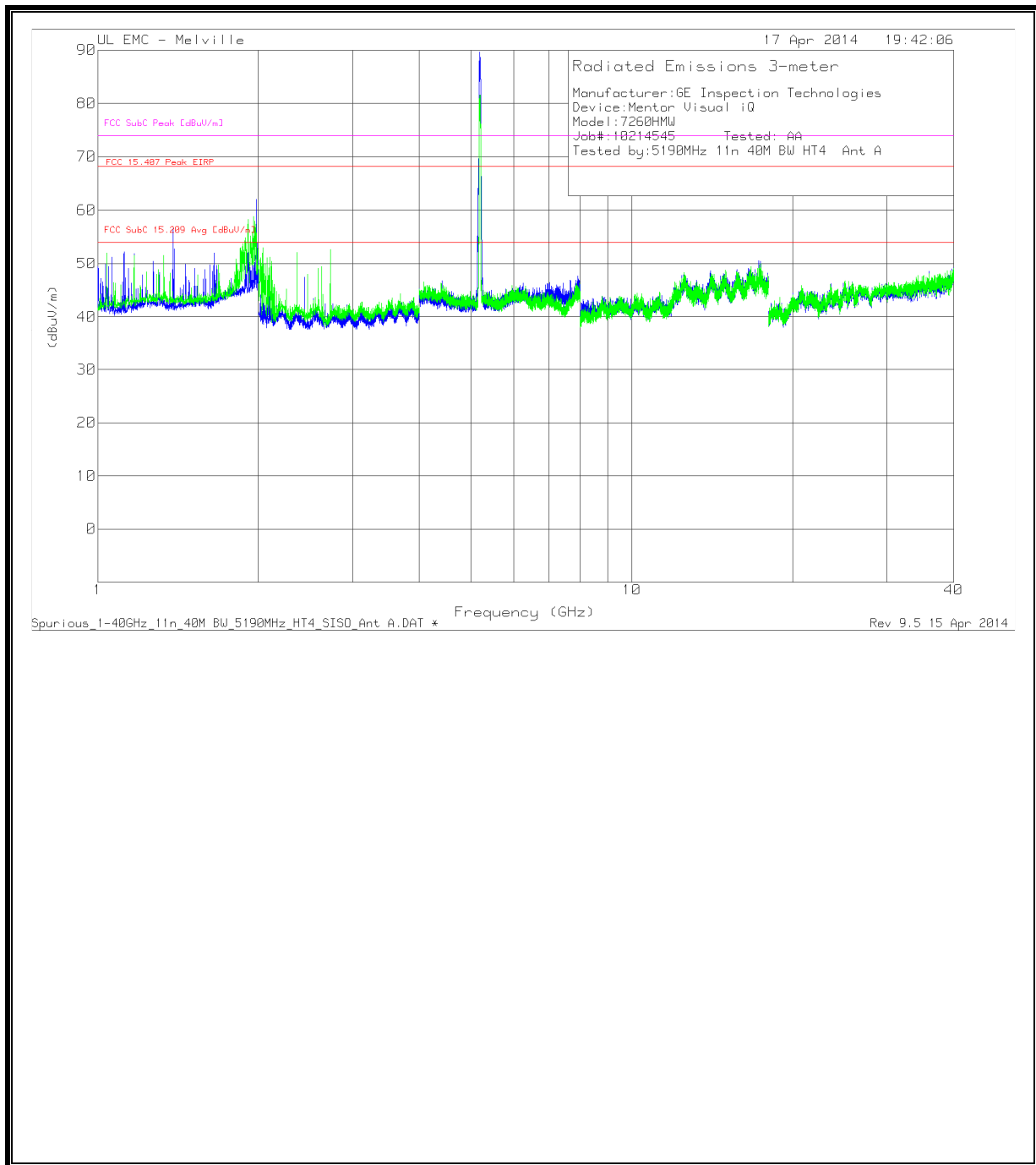
### 8.4.1. RESTRICTED BANDEDGE (LOW CHANNEL CHAIN A)



**AUTHORIZED BANDEDGE (HIGH CHANNEL CHAIN A)**



**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL CHAIN A**



# DATA

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| 2.016           | 76.46                | PK1 | 21              | -40.57         | 56.89                      | -                            | -           | -                      | -              | 68.2                 | -11.31         | 207            | 262         | V        |
| 2.03            | 73.83                | PK1 | 21.1            | -40.85         | 54.08                      | -                            | -           | -                      | -              | 68.2                 | -14.12         | 148            | 335         | V        |
| 2.074           | 65.81                | PK1 | 21.1            | -41.29         | 45.62                      | -                            | -           | -                      | -              | 68.2                 | -22.58         | 336            | 110         | V        |
| 2.125           | 65.76                | PK1 | 21.3            | -41.55         | 45.51                      | -                            | -           | -                      | -              | 68.2                 | -22.69         | 334            | 262         | V        |

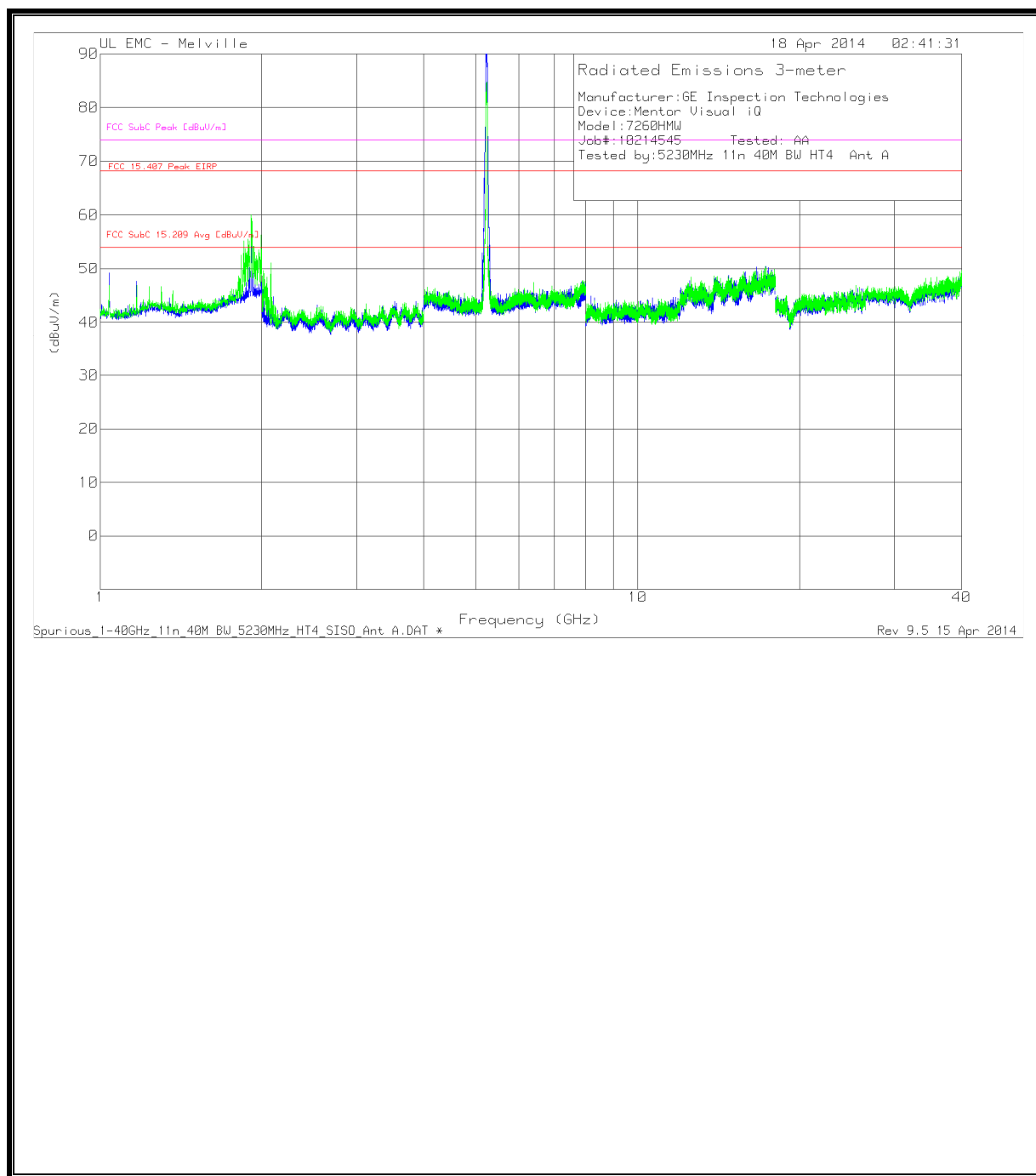
Note: No spurious emissions observed beyond the fundamental frequency

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL CHAIN A**



DATA

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

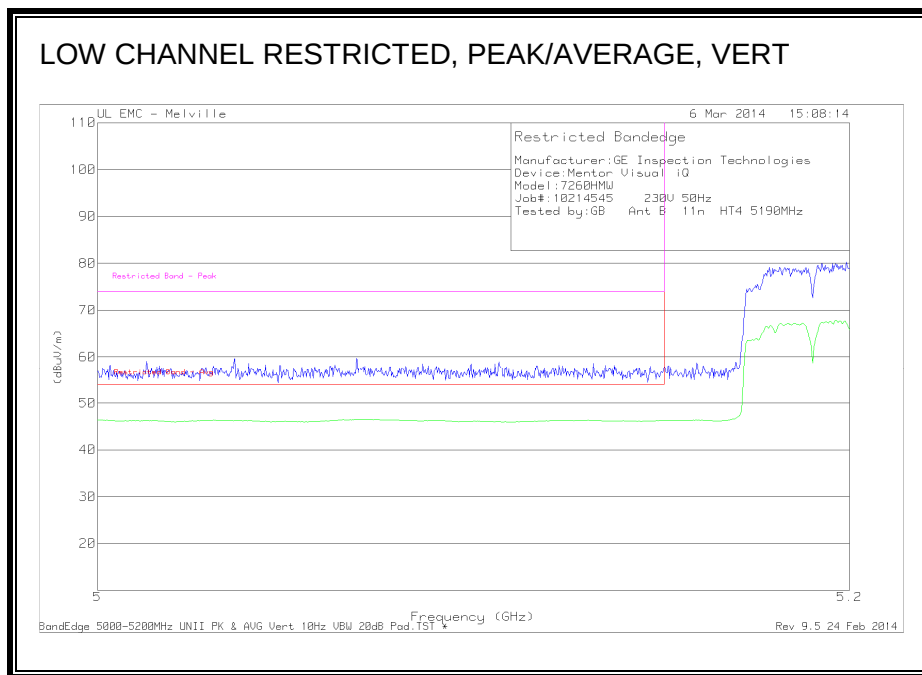
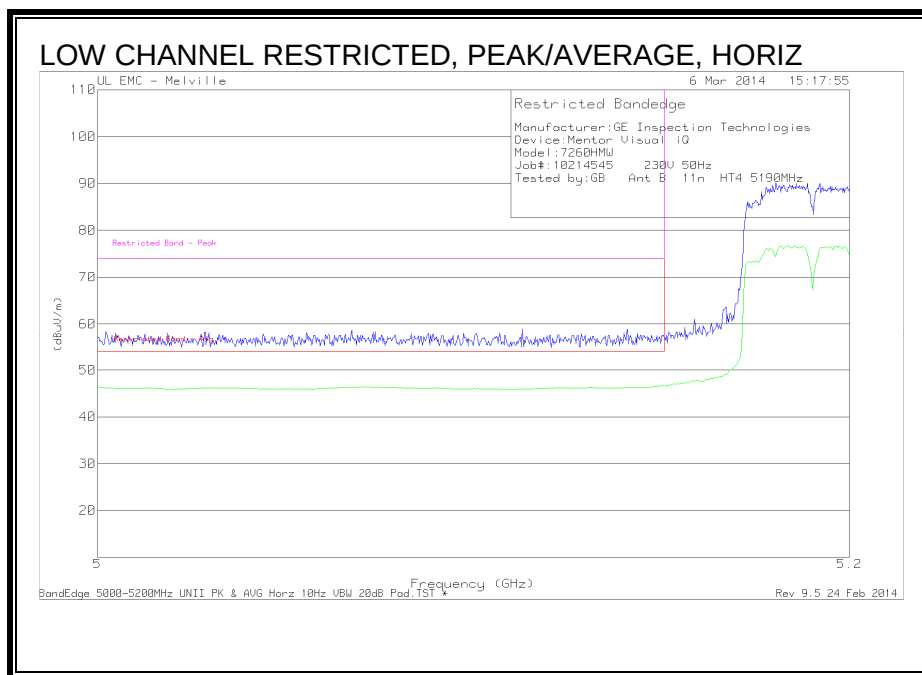
Note: No spurious emissions observed beyond the fundamental frequency

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

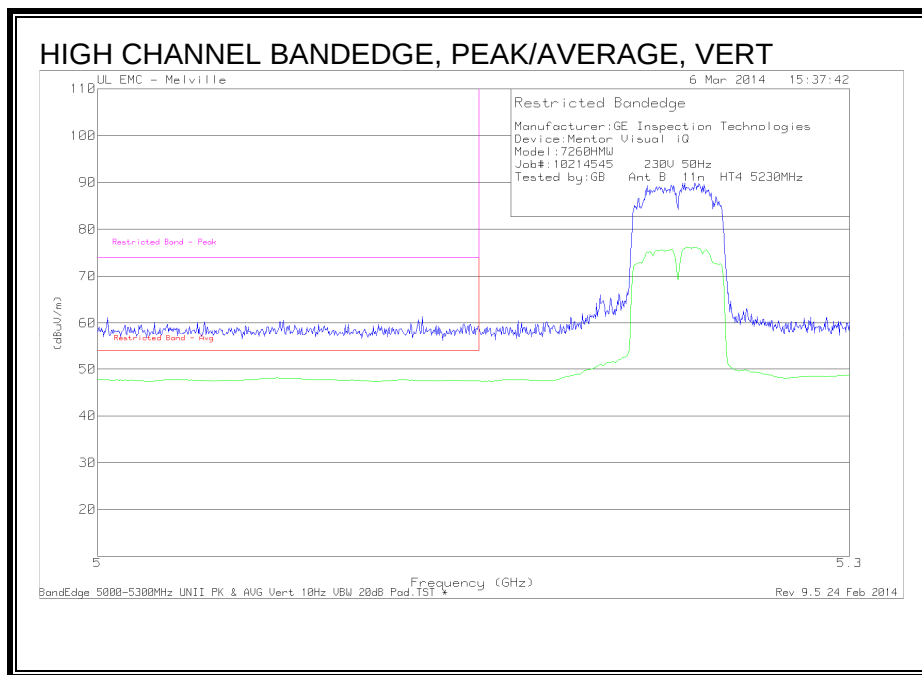
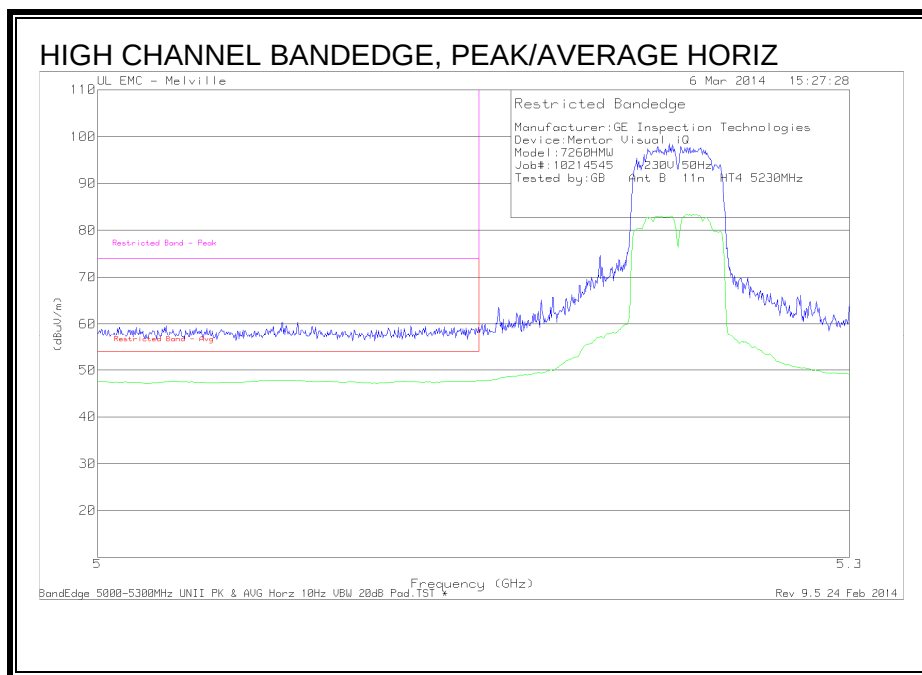
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

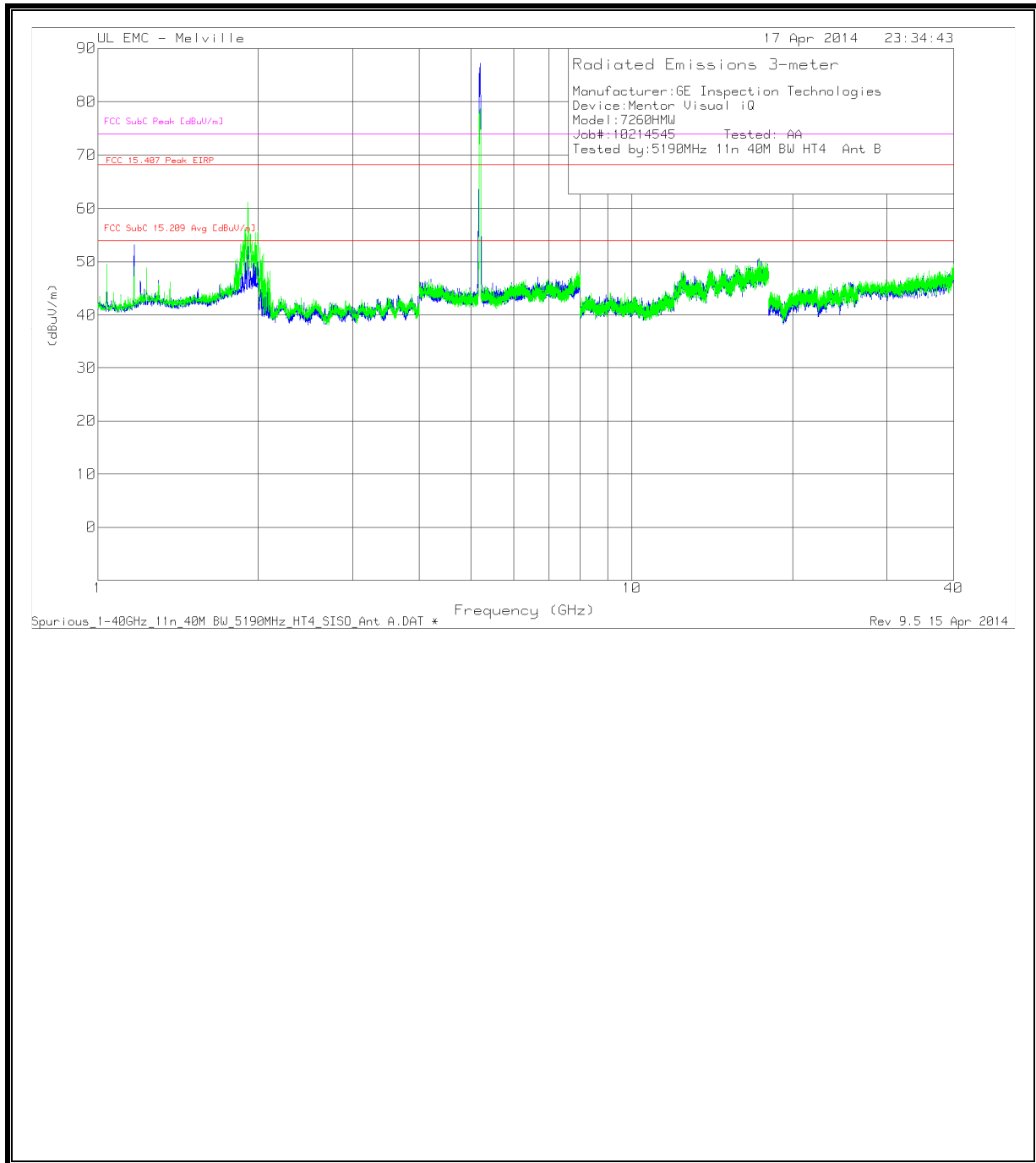
**RESTRICTED BANDEDGE (LOW CHANNEL CHAIN B)**



**AUTHORIZED BANDEDGE (HIGH CHANNEL CHAIN B)**



**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL CHAIN B**



DATA

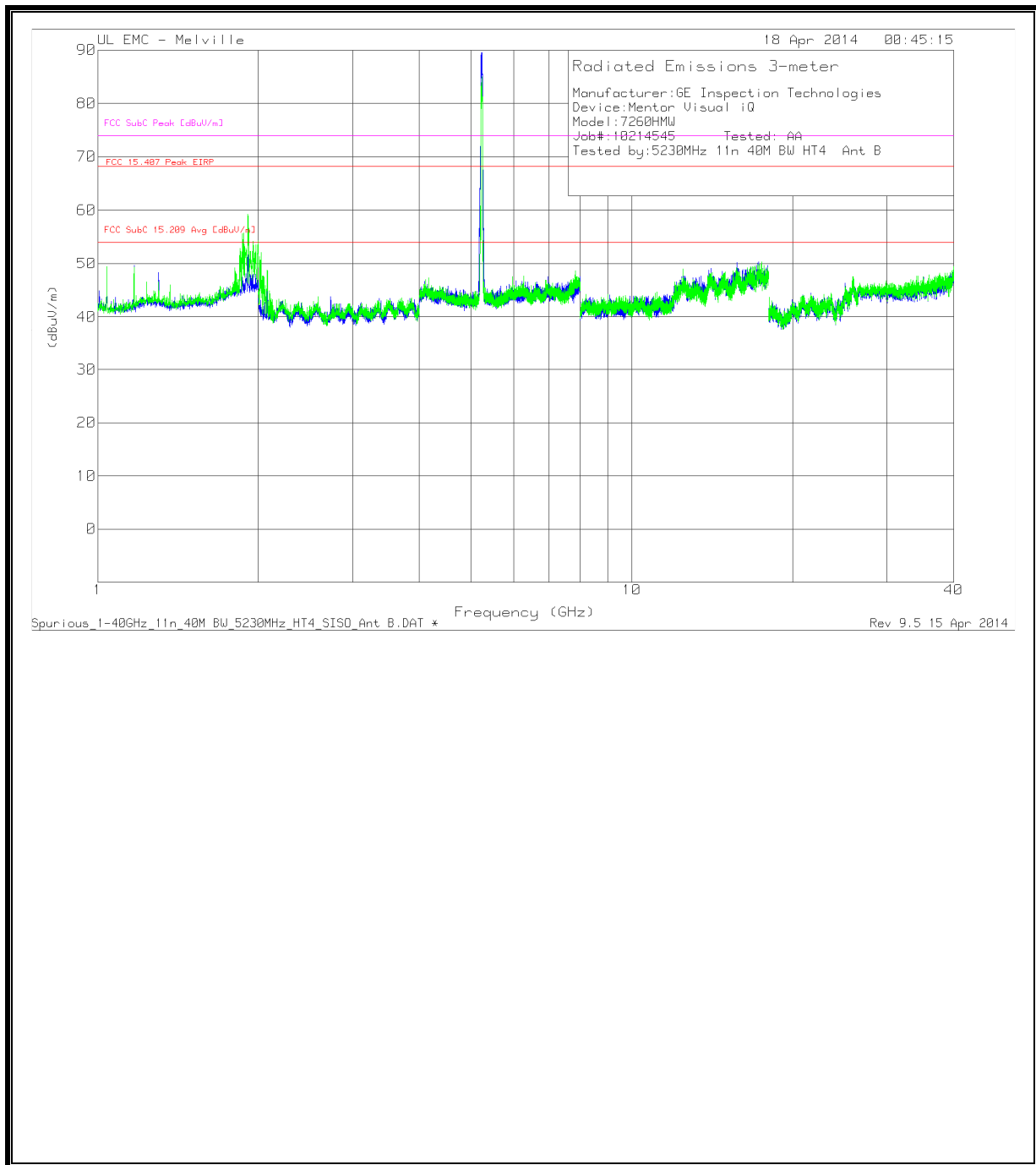
| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

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

**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL CHAIN B**



# DATA

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

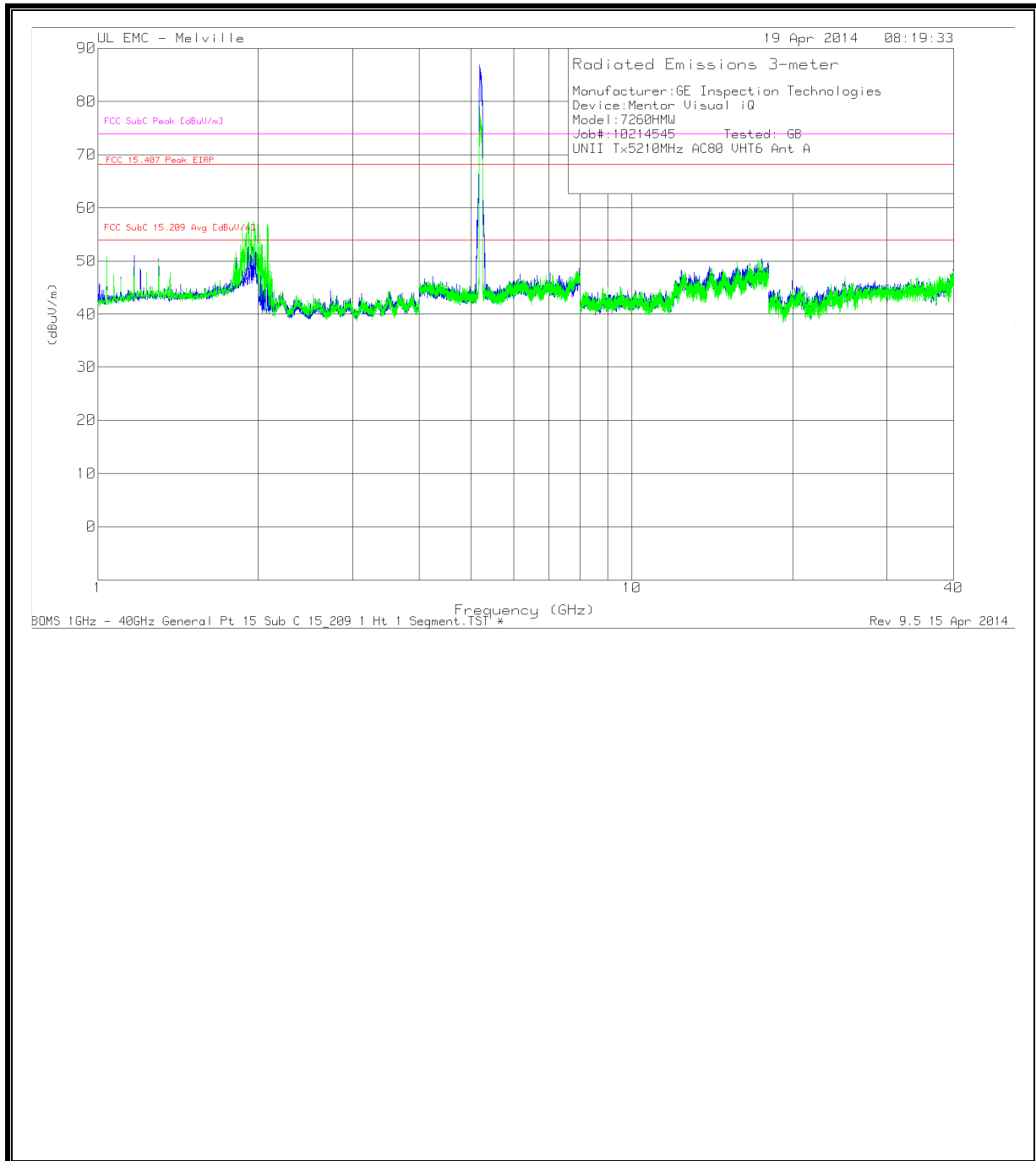
| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

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

## 8.5. TX ABOVE 1 GHz 802.11n AC80 MODE IN THE 5.2 GHz BAND SISO

### HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL CHAIN A



DATA

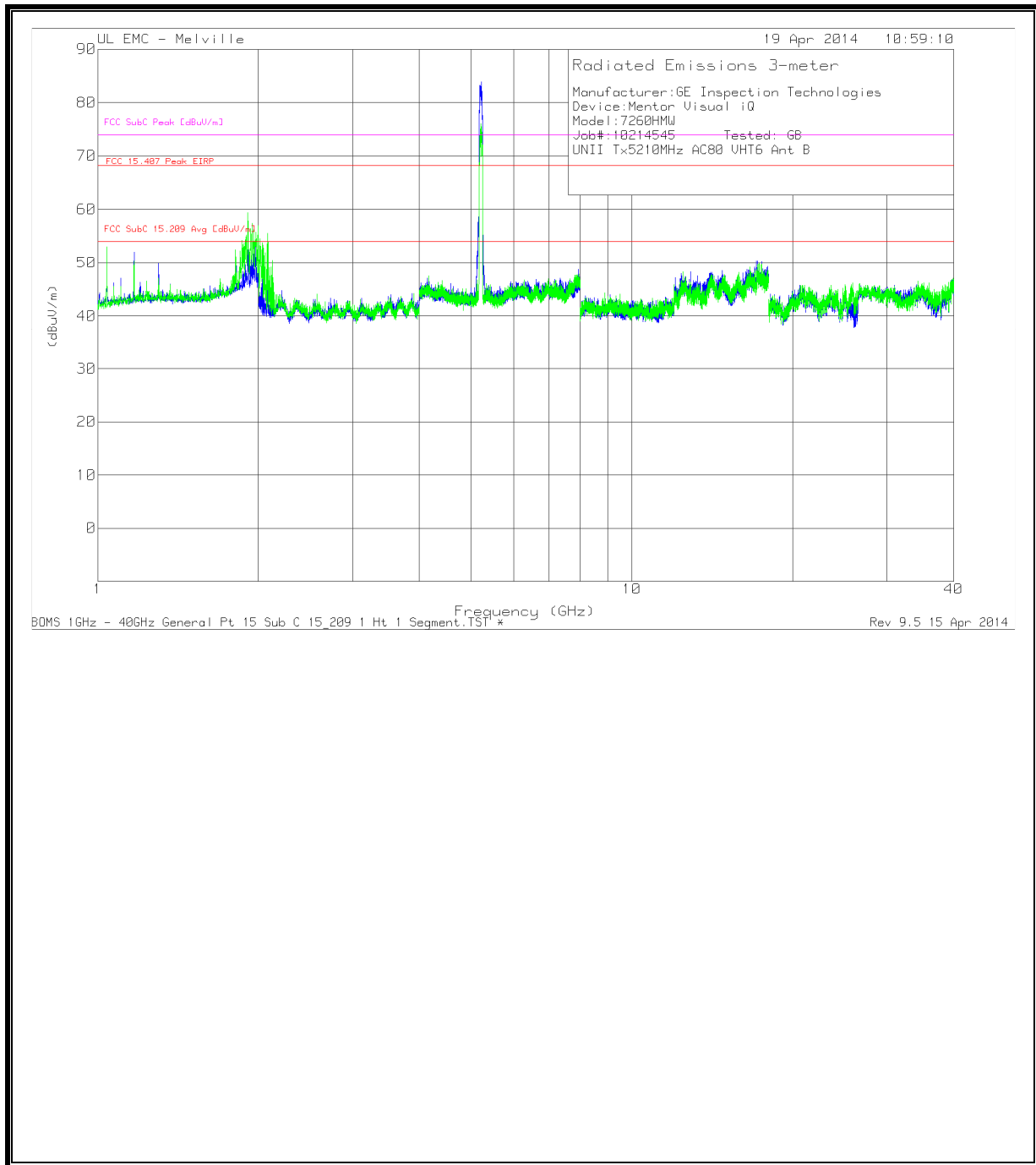
| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

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

**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL CHAIN B**



**DATA**

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

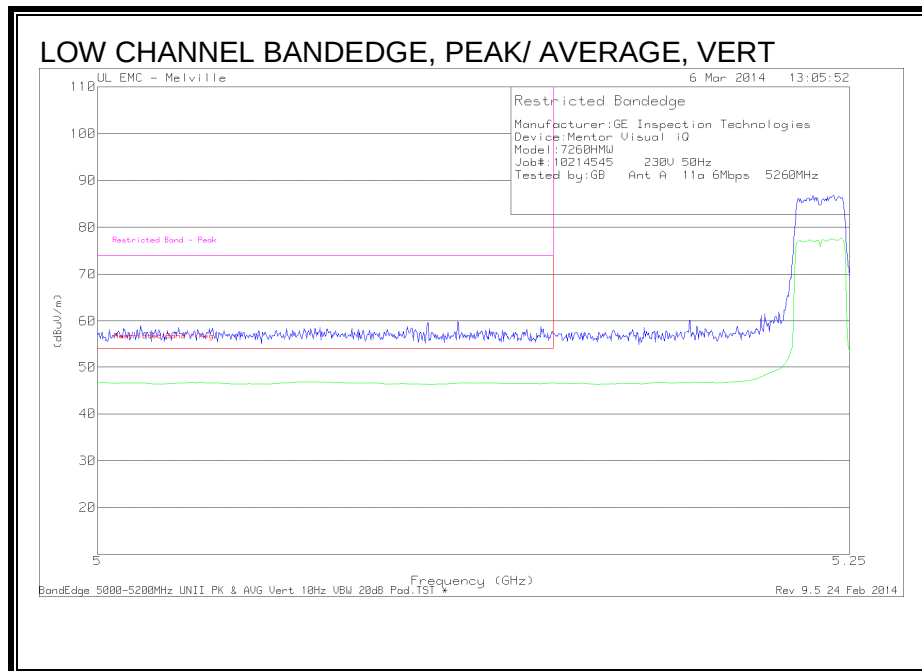
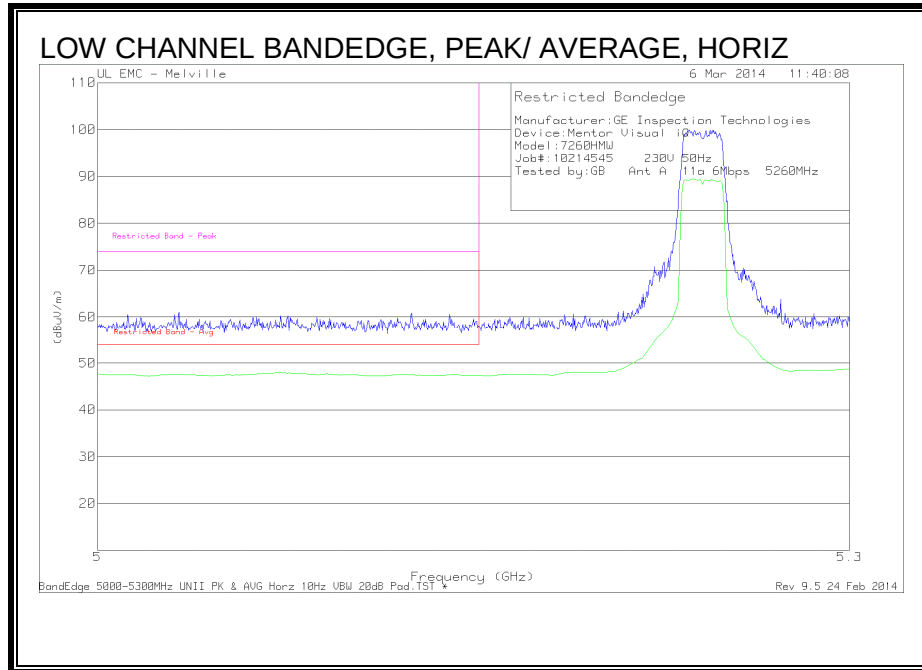
| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

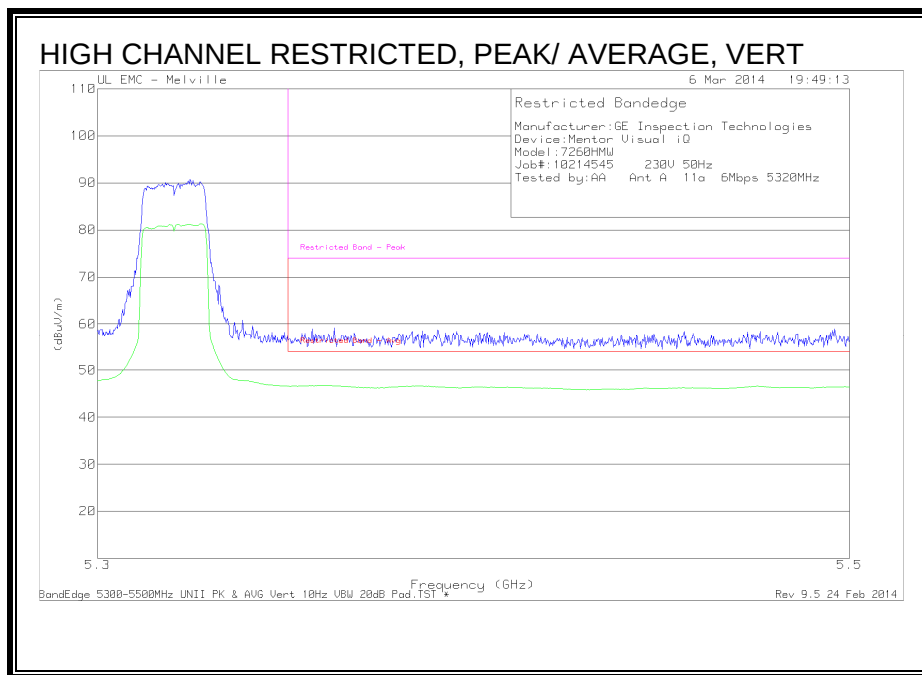
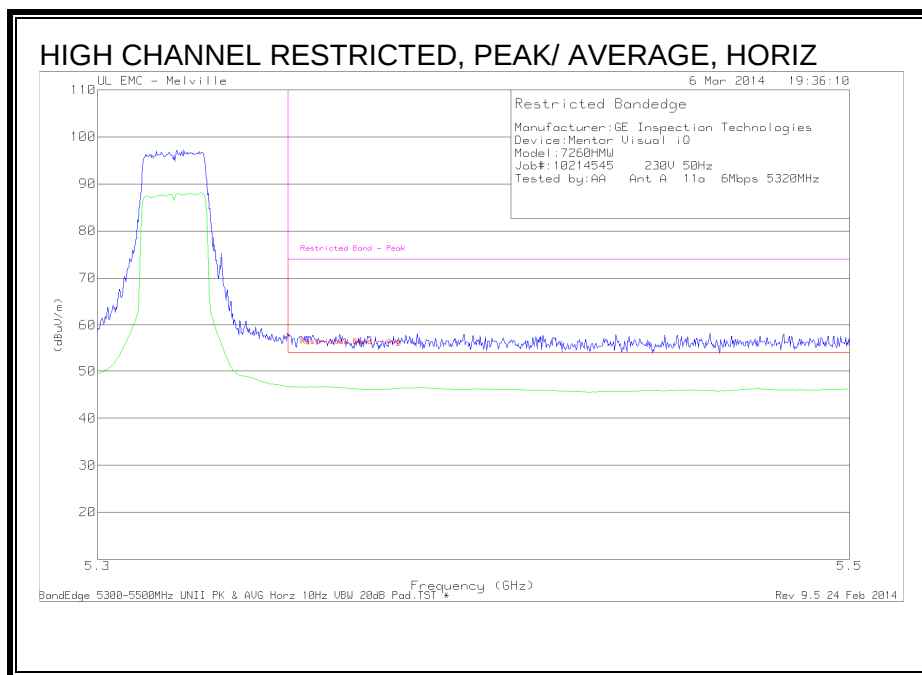
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band  
PK1 - KDB789033 Method: Peak  
AD1 - KDB789033 Method: AD Primary Power Average

## 8.6. TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND SISO

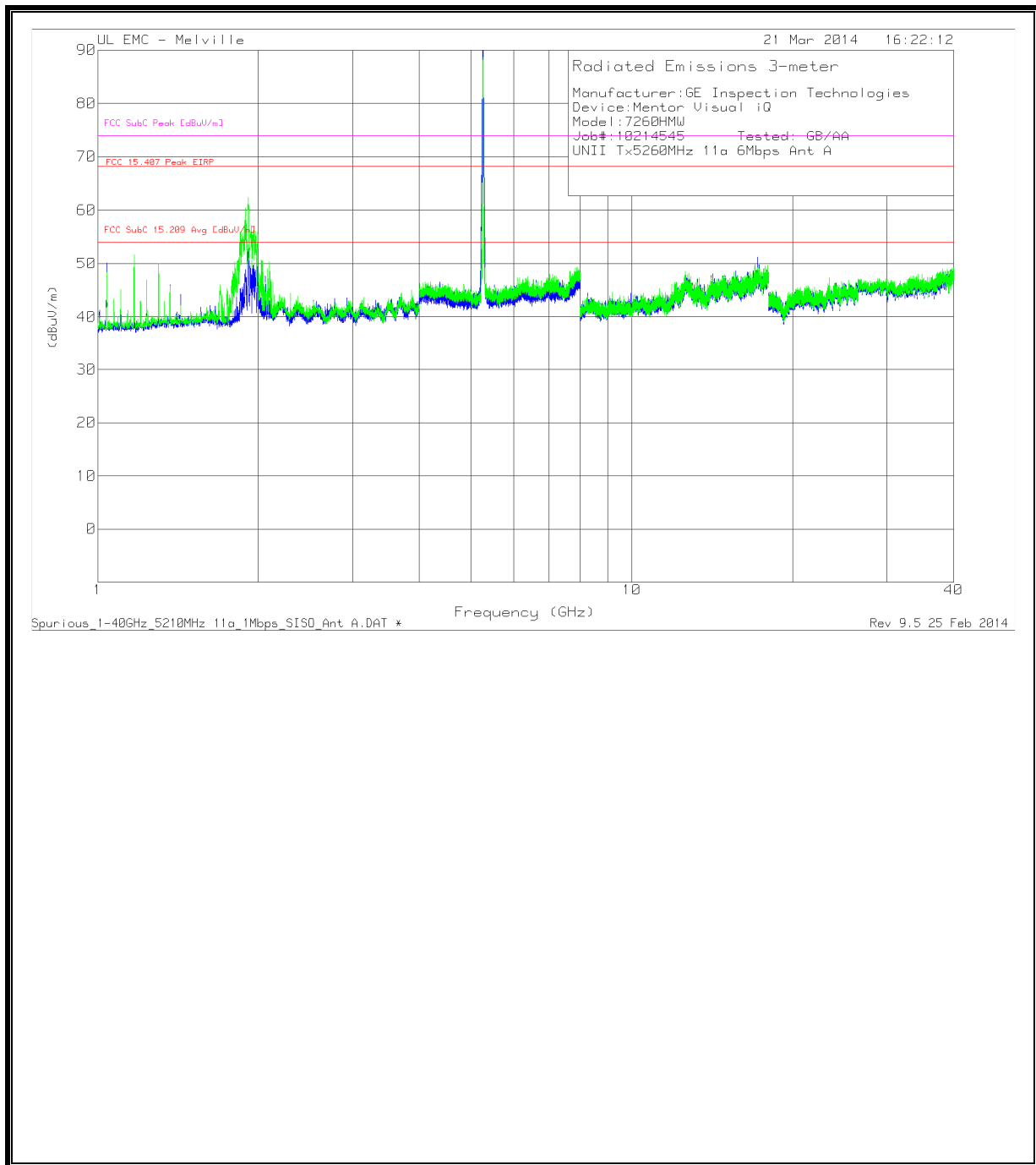
### 8.6.1. AUTHORIZED BANDEDGE (LOW CHANNEL CHAIN A)



**RESTRICTED BANDEDGE (HIGH CHANNEL CHAIN A)**



**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL CHAIN A**



DATA

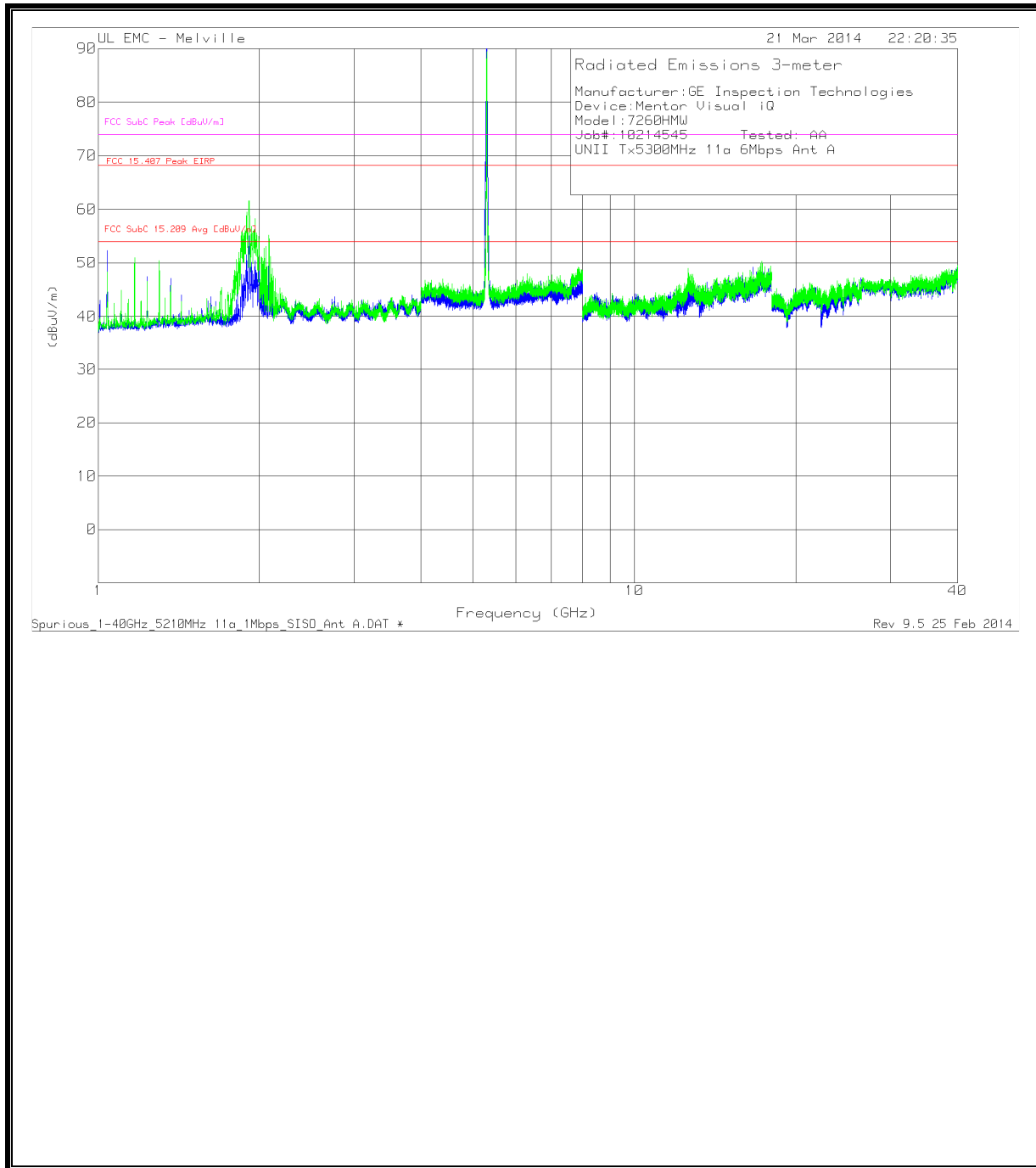
| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

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

## HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL CHAIN A



DATA

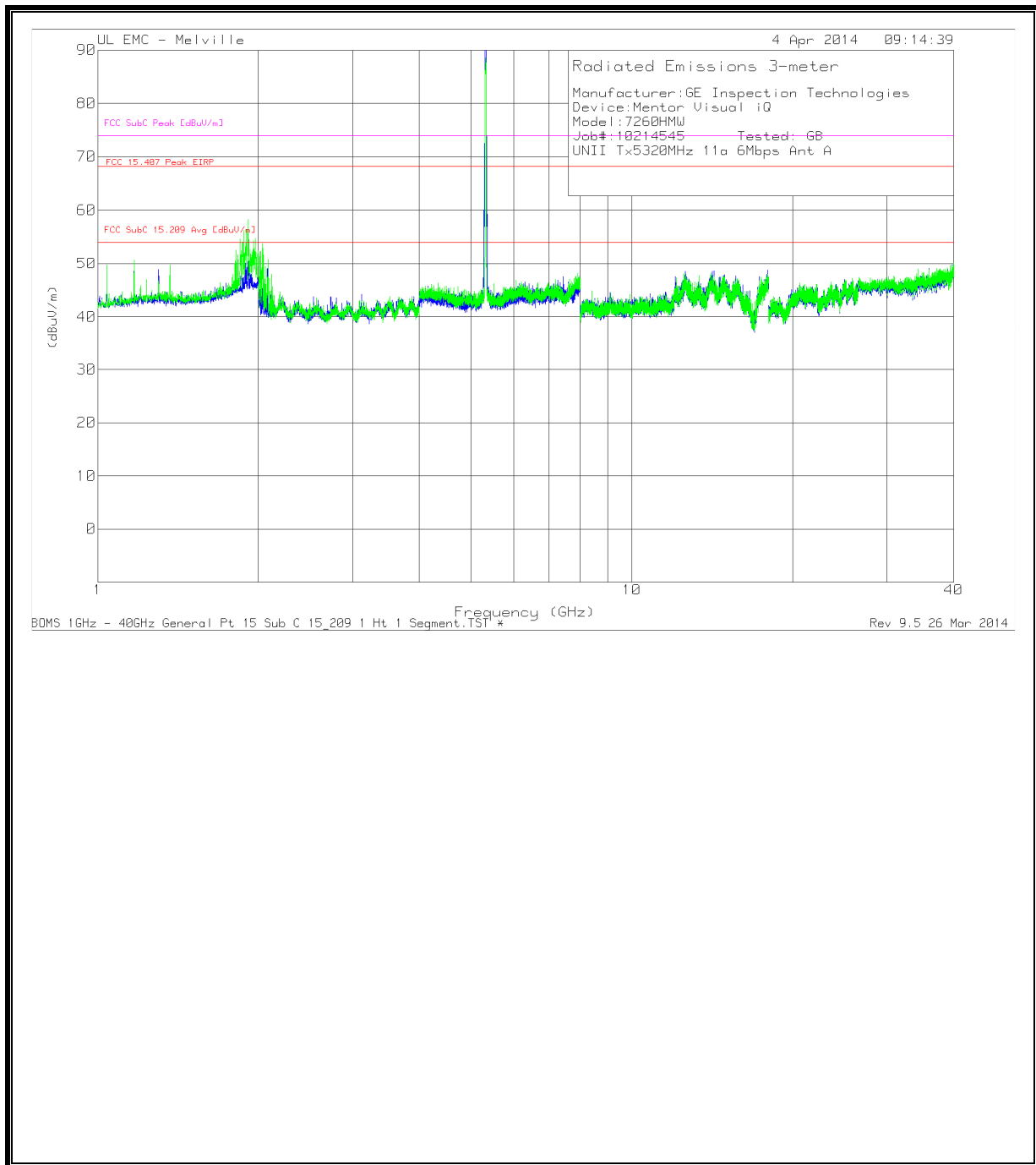
| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

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

**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL CHAIN A**



DATA

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

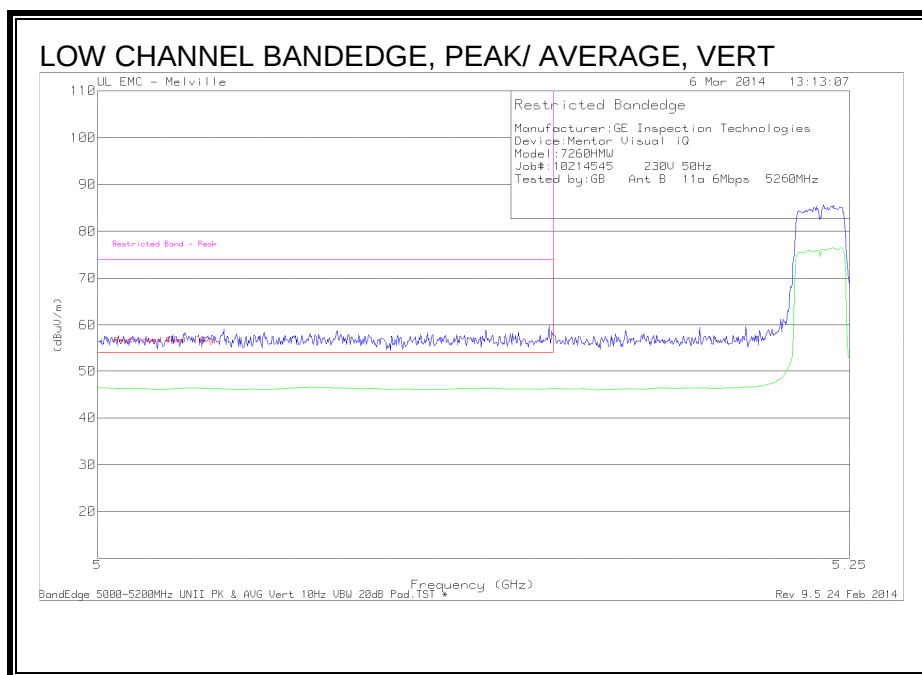
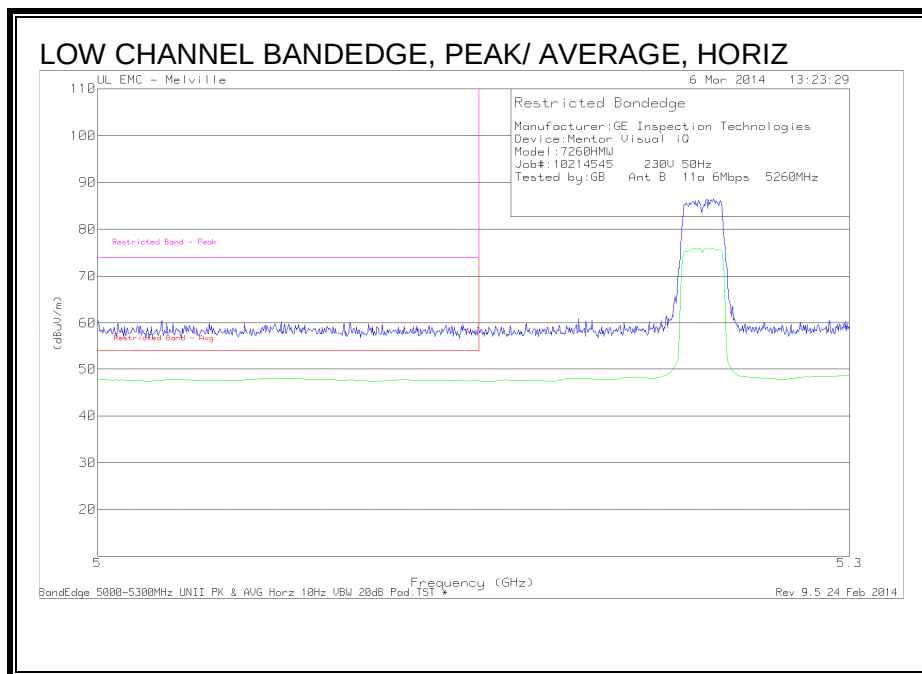
Note: No spurious emissions observed beyond the fundamental frequency

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

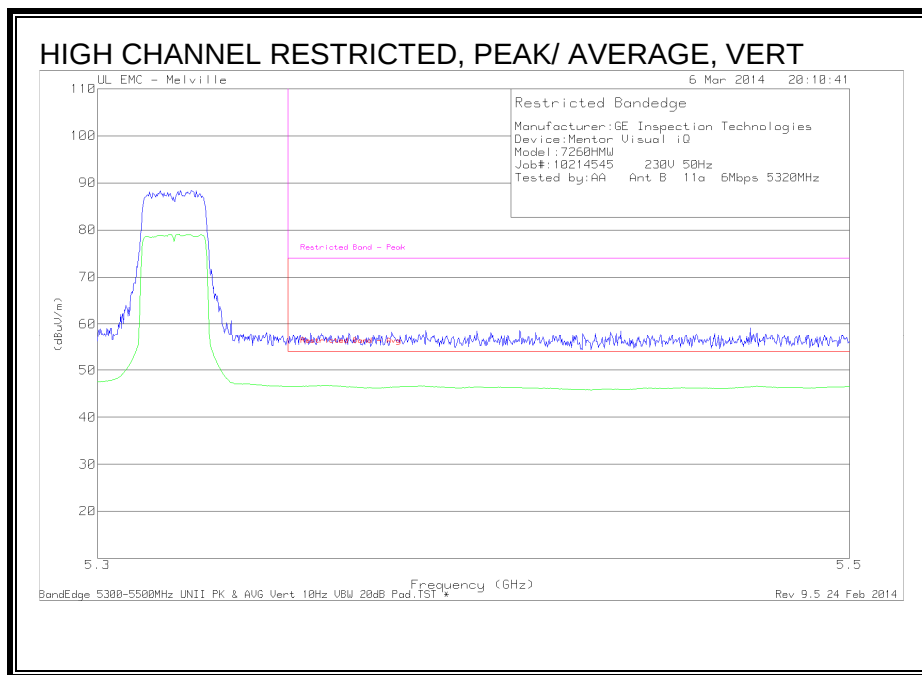
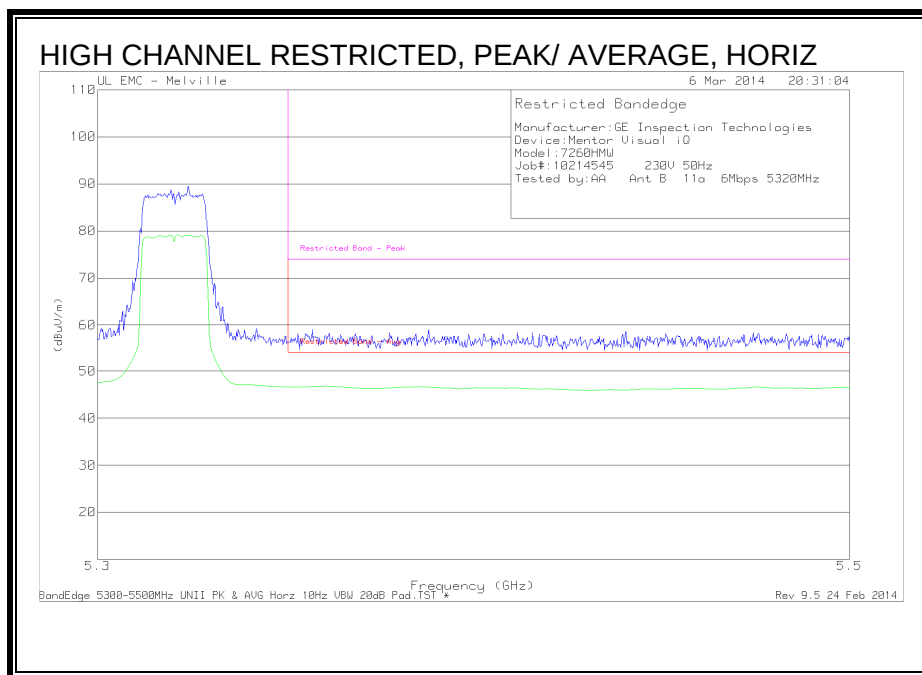
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

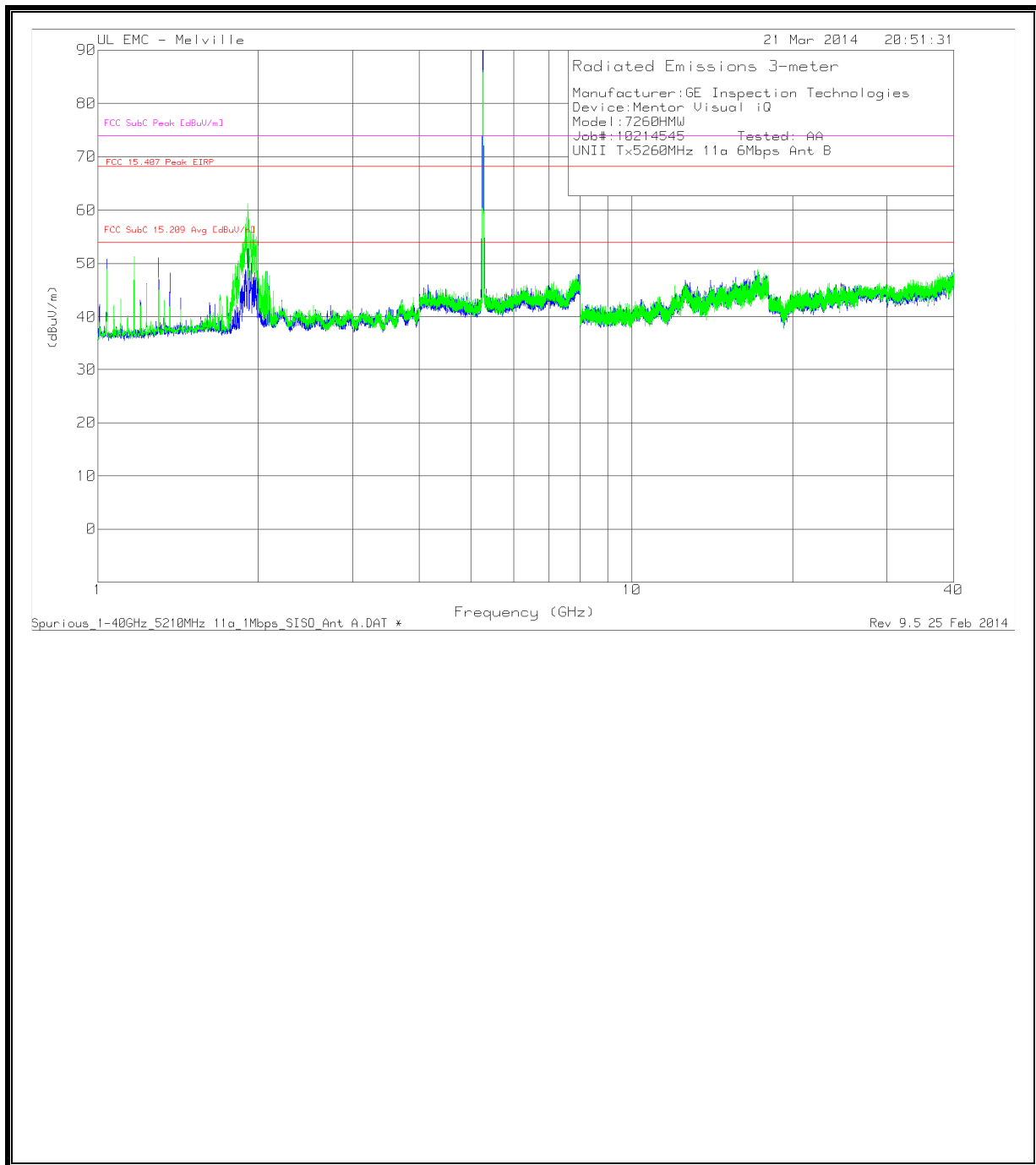
**AUTHORIZED BANDEDGE (LOW CHANNEL CHAIN B)**



**RESTRICTED BANDEDGE (HIGH CHANNEL CHAIN B)**



**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL CHAIN B**



DATA

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

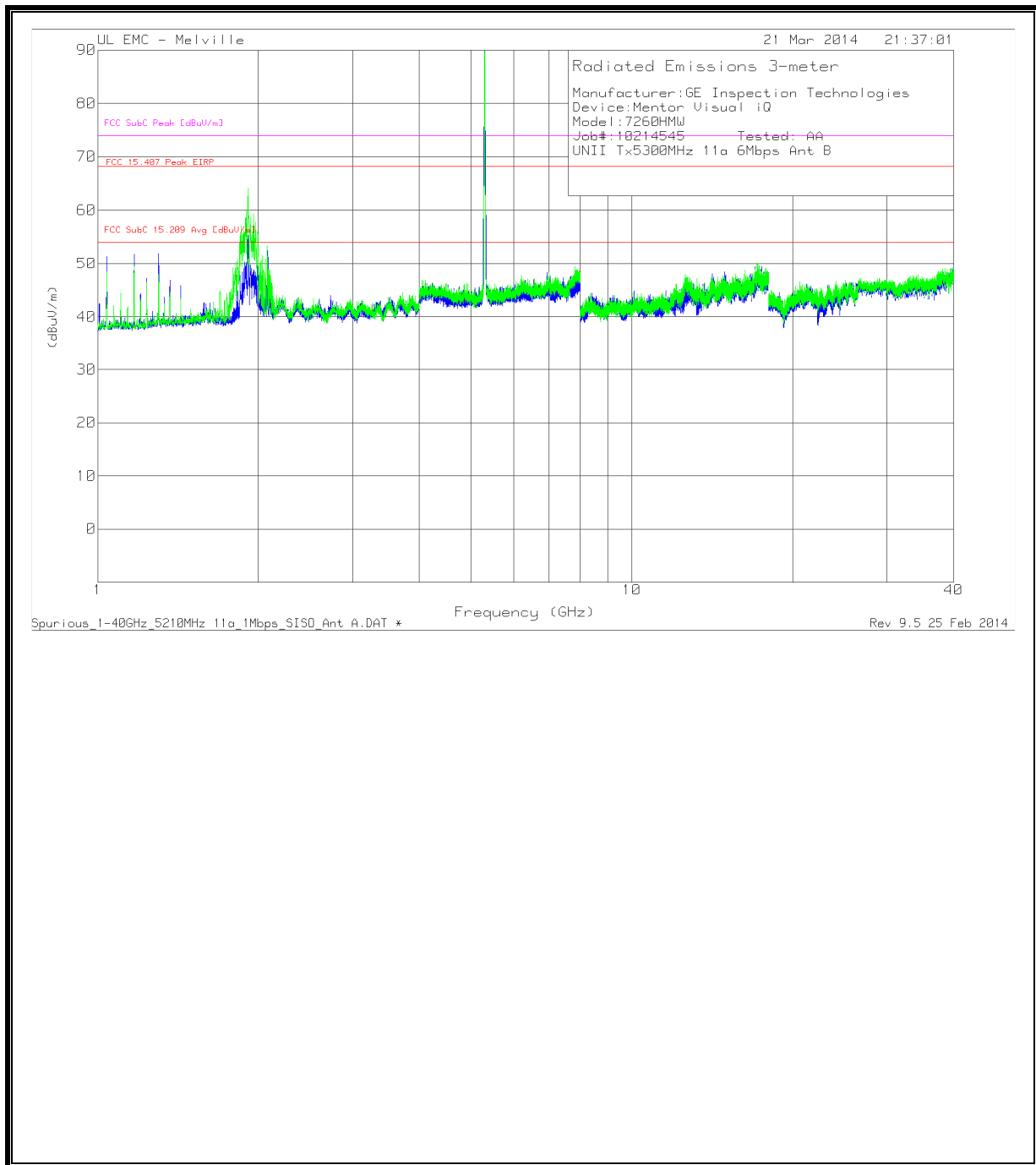
Note: No spurious emissions observed beyond the fundamental frequency

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL CHAIN B**



DATA

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

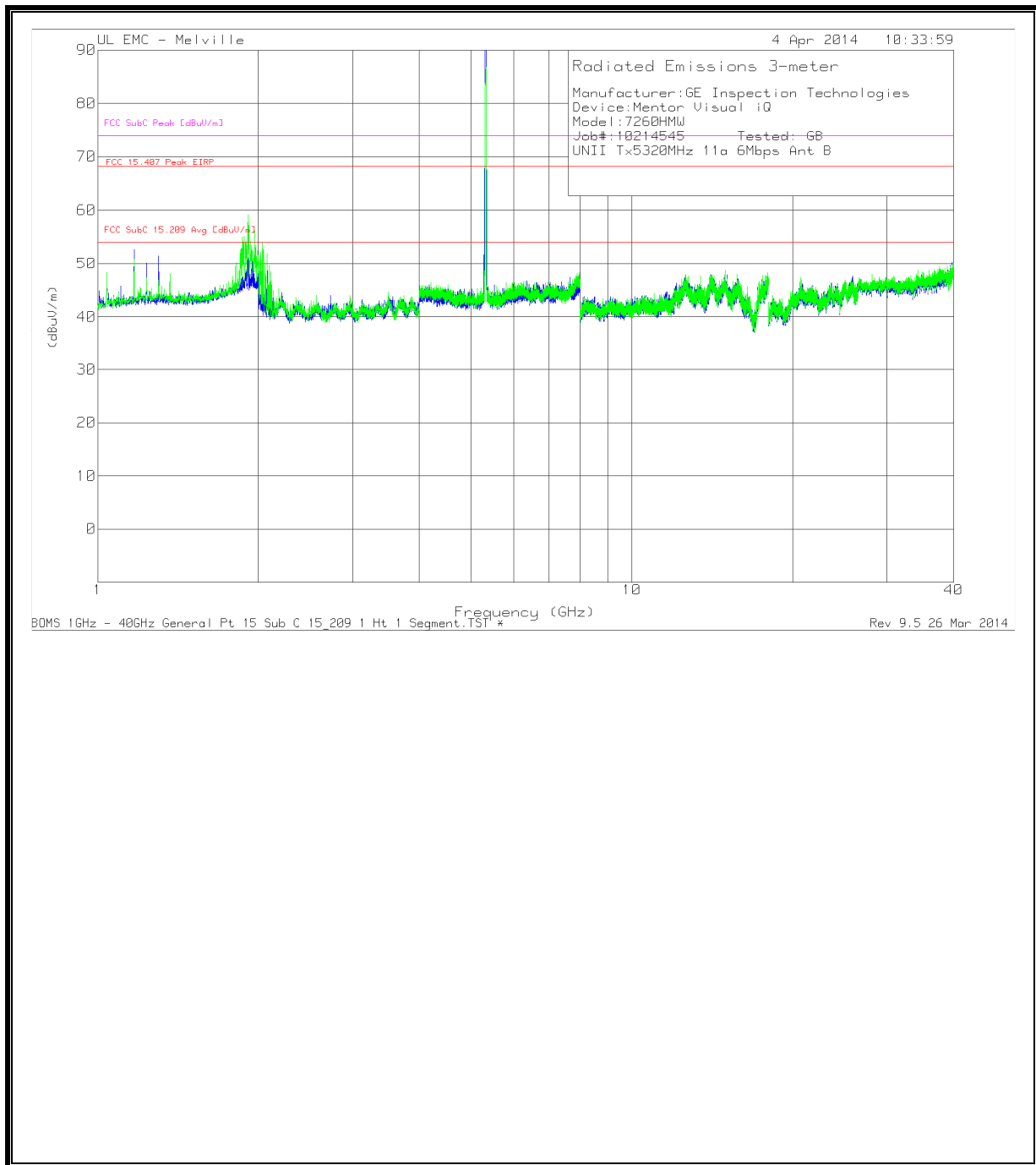
Note: No spurious emissions observed beyond the fundamental frequency

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL CHAIN B**



DATA

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

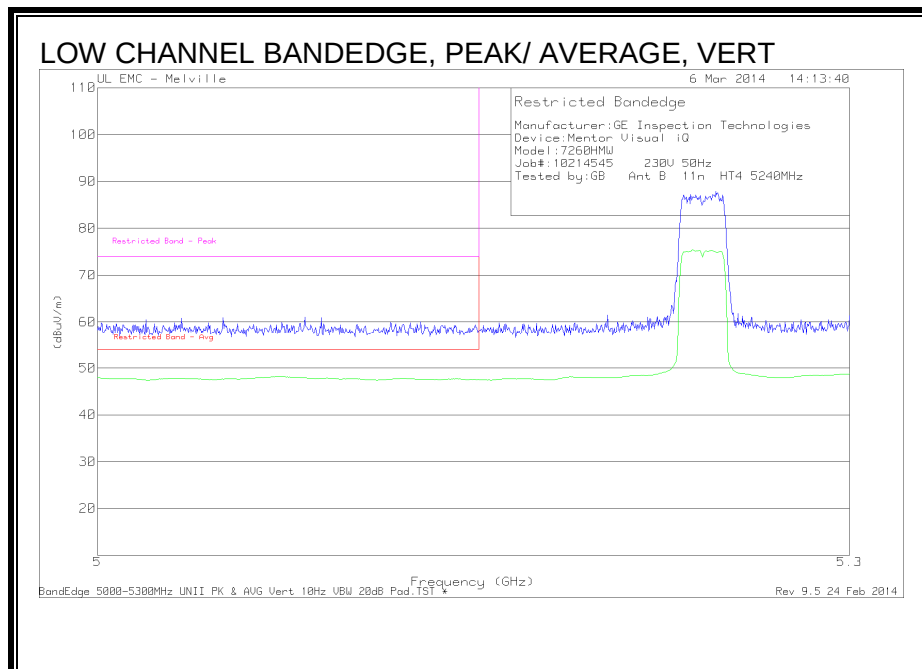
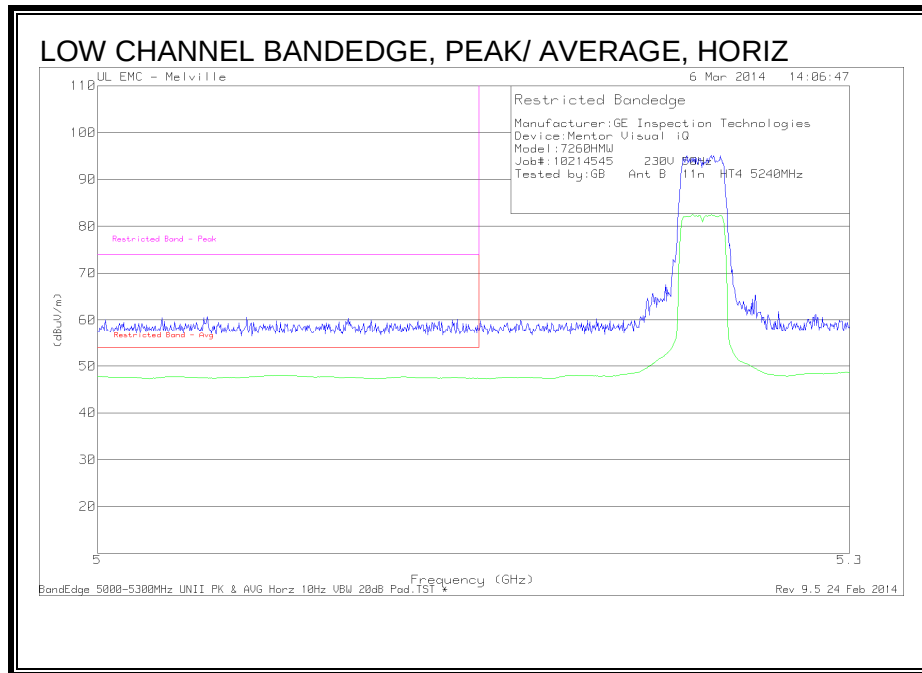
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

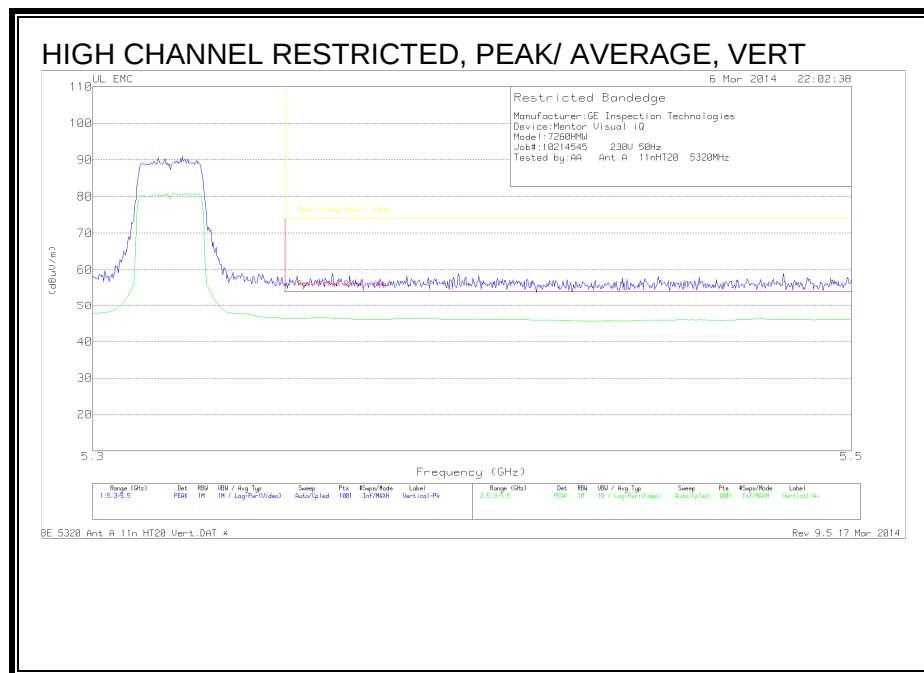
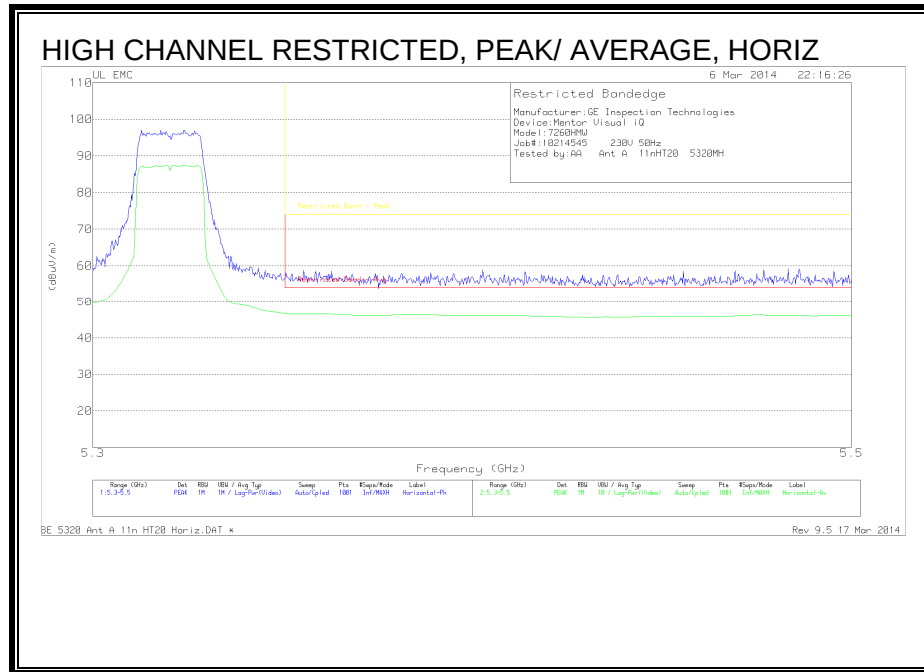
AD1 - KDB789033 Method: AD Primary Power Average

## 8.7. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND (SISO)

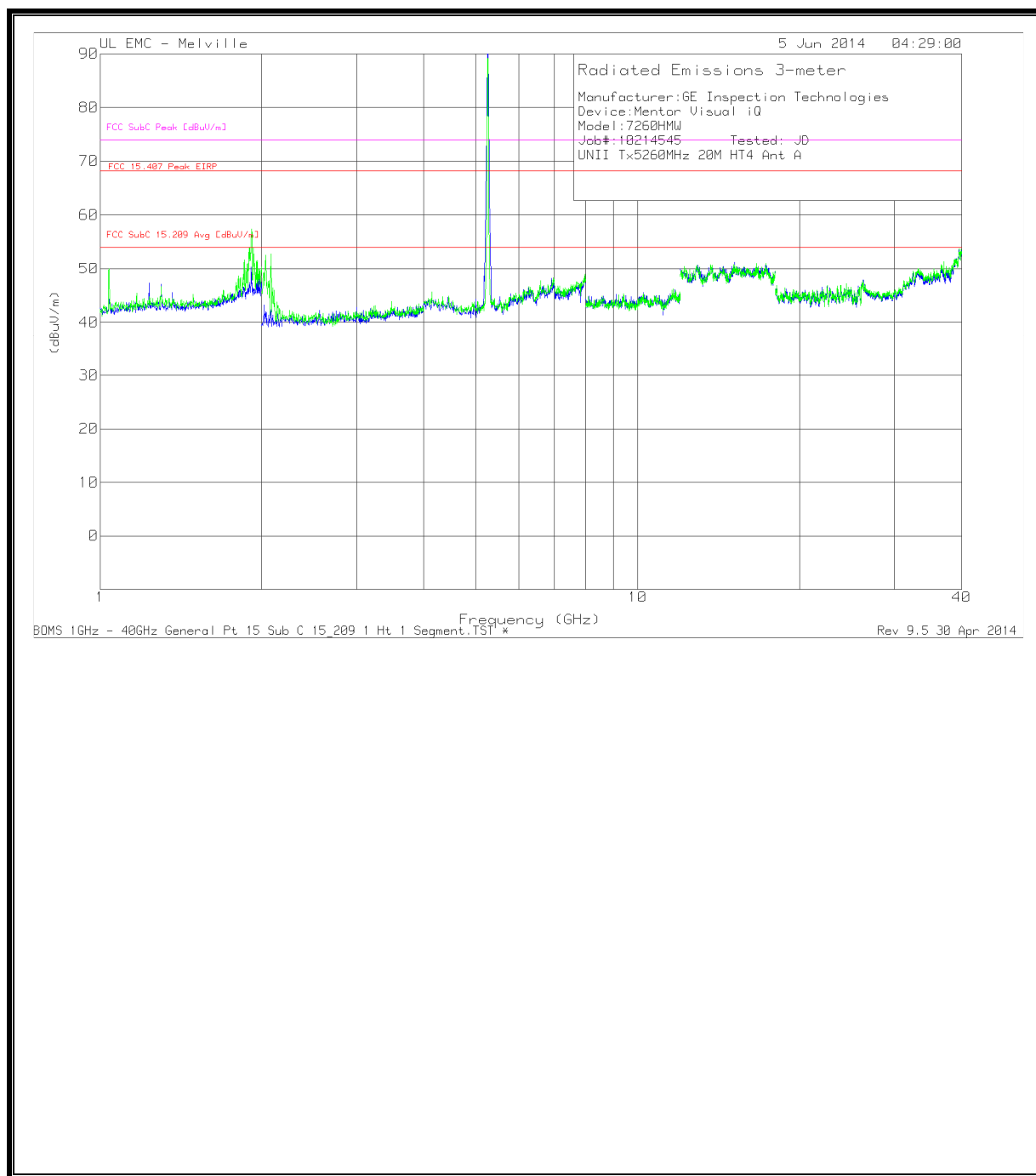
### 8.7.1. AUTHORIZED BANDEDGE (LOW CHANNEL CHAIN A)



**RESTRICTED BANDEDGE (HIGH CHANNEL CHAIN A)**



**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL CHAIN A**



## DATA

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 58.6                 | AD1 | 24.2      | -44.59         | 38.21                      | 54                           | -15.79      | -                      | -              | -                    | -              | 344            | 226         | H        |
| * 1.235         | 59.08                | AD1 | 25        | -44.66         | 39.42                      | 54                           | -14.58      | -                      | -              | -                    | -              | 303            | 151         | H        |
| * 1.3           | 62.86                | AD1 | 25.1      | -44.75         | 43.21                      | 54                           | -10.79      | -                      | -              | -                    | -              | 306            | 136         | H        |
| * 1.365         | 58.8                 | AD1 | 25        | -44.2          | 39.6                       | 54                           | -14.4       | -                      | -              | -                    | -              | 66             | 128         | H        |
| * 1.04          | 52.56                | AD1 | 23.9      | -44.59         | 31.87                      | 54                           | -22.13      | -                      | -              | -                    | -              | 248            | 218         | V        |
| * 1.17          | 52.17                | AD1 | 24.9      | -44.97         | 32.1                       | 54                           | -21.9       | -                      | -              | -                    | -              | 109            | 356         | V        |
| * 1.3           | 54.13                | AD1 | 25.4      | -44.75         | 34.78                      | 54                           | -19.22      | -                      | -              | -                    | -              | 360            | 201         | V        |
| * 1.492         | 52.52                | AD1 | 25.1      | -44.34         | 33.28                      | 54                           | -20.72      | -                      | -              | -                    | -              | 58             | 247         | V        |
| * 1.04          | 69.15                | PK1 | 24.2      | -44.59         | 48.76                      | 54                           | -5.24       | 74                     | -25.24         | -                    | -              | 344            | 226         | H        |
| * 1.235         | 70.21                | PK1 | 25        | -44.63         | 50.58                      | 54                           | -3.42       | 74                     | -23.42         | -                    | -              | 303            | 151         | H        |
| * 1.3           | 71.13                | PK1 | 25.1      | -44.75         | 51.48                      | 54                           | -2.52       | 74                     | -22.52         | -                    | -              | 306            | 136         | H        |
| * 1.365         | 67.39                | PK1 | 25        | -44.2          | 48.19                      | 54                           | -5.81       | 74                     | -25.81         | -                    | -              | 66             | 128         | H        |
| * 1.04          | 66.7                 | PK1 | 23.9      | -44.59         | 46.01                      | 54                           | -7.99       | 74                     | -27.99         | -                    | -              | 248            | 218         | V        |
| * 1.17          | 64.68                | PK1 | 24.9      | -44.97         | 44.61                      | 54                           | -9.39       | 74                     | -29.39         | -                    | -              | 109            | 356         | V        |
| * 1.3           | 64.95                | PK1 | 25.4      | -44.75         | 45.6                       | 54                           | -8.4        | 74                     | -28.4          | -                    | -              | 360            | 201         | V        |
| * 1.492         | 63.99                | PK1 | 25.1      | -44.34         | 44.75                      | 54                           | -9.25       | 74                     | -29.25         | -                    | -              | 58             | 247         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

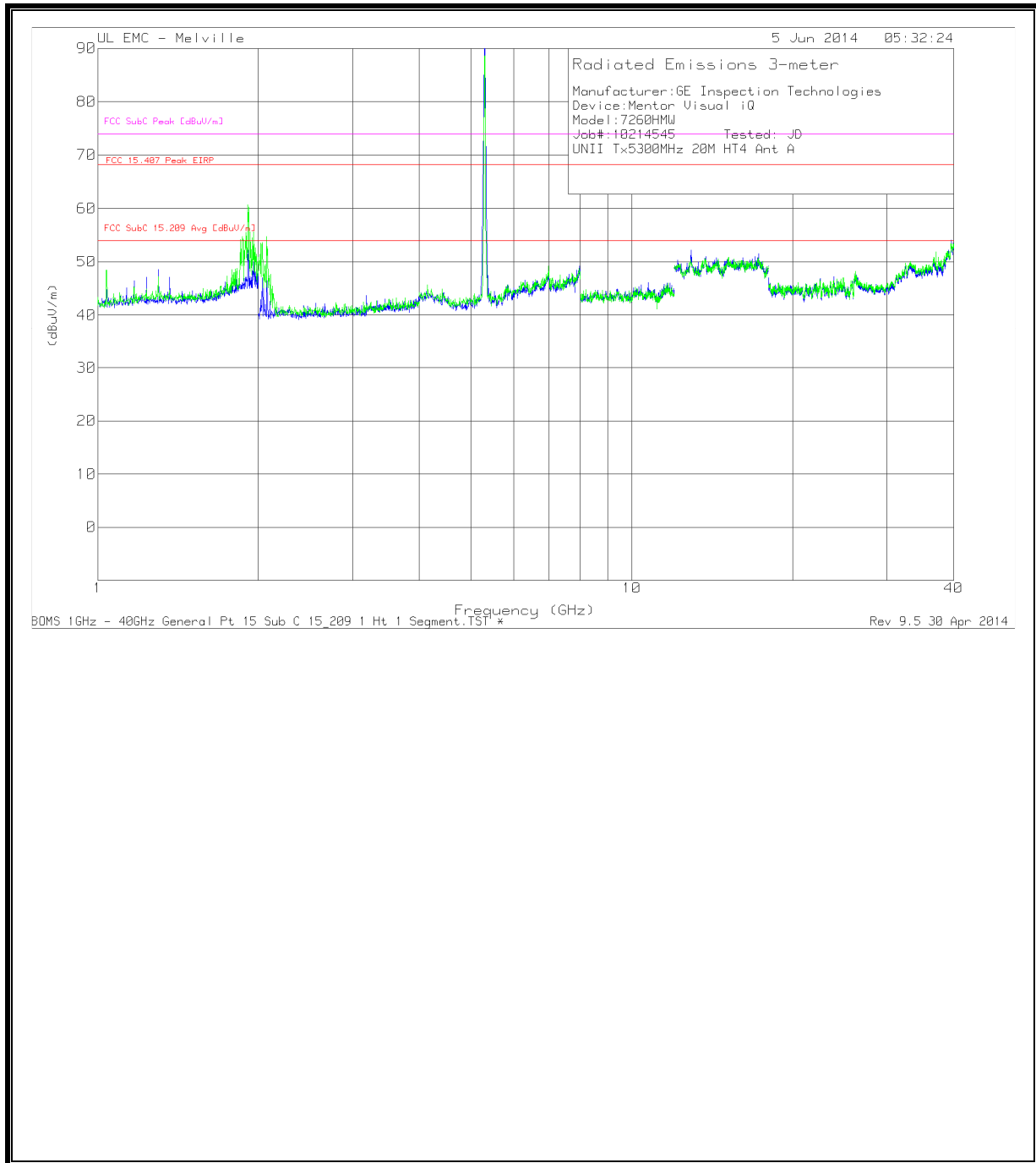
Note: No spurious emissions observed beyond the fundamental frequency

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL CHAIN A**



# DATA

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 58.6                 | AD1 | 24.2      | -44.59         | 38.21                      | 54                           | -15.79      | -                      | -              | -                    | -              | 344            | 226         | H        |
| * 1.235         | 59.08                | AD1 | 25        | -44.66         | 39.42                      | 54                           | -14.58      | -                      | -              | -                    | -              | 303            | 151         | H        |
| * 1.3           | 62.86                | AD1 | 25.1      | -44.75         | 43.21                      | 54                           | -10.79      | -                      | -              | -                    | -              | 306            | 136         | H        |
| * 1.365         | 58.8                 | AD1 | 25        | -44.2          | 39.6                       | 54                           | -14.4       | -                      | -              | -                    | -              | 66             | 128         | H        |
| * 1.04          | 52.56                | AD1 | 23.9      | -44.59         | 31.87                      | 54                           | -22.13      | -                      | -              | -                    | -              | 248            | 218         | V        |
| * 1.17          | 52.17                | AD1 | 24.9      | -44.97         | 32.1                       | 54                           | -21.9       | -                      | -              | -                    | -              | 109            | 356         | V        |
| * 1.3           | 54.13                | AD1 | 25.4      | -44.75         | 34.78                      | 54                           | -19.22      | -                      | -              | -                    | -              | 360            | 201         | V        |
| * 1.492         | 52.52                | AD1 | 25.1      | -44.34         | 33.28                      | 54                           | -20.72      | -                      | -              | -                    | -              | 58             | 247         | V        |
| * 1.04          | 69.15                | PK1 | 24.2      | -44.59         | 48.76                      | 54                           | -5.24       | 74                     | -25.24         | -                    | -              | 344            | 226         | H        |
| * 1.235         | 70.21                | PK1 | 25        | -44.63         | 50.58                      | 54                           | -3.42       | 74                     | -23.42         | -                    | -              | 303            | 151         | H        |
| * 1.3           | 71.13                | PK1 | 25.1      | -44.75         | 51.48                      | 54                           | -2.52       | 74                     | -22.52         | -                    | -              | 306            | 136         | H        |
| * 1.365         | 67.39                | PK1 | 25        | -44.2          | 48.19                      | 54                           | -5.81       | 74                     | -25.81         | -                    | -              | 66             | 128         | H        |
| * 1.04          | 66.7                 | PK1 | 23.9      | -44.59         | 46.01                      | 54                           | -7.99       | 74                     | -27.99         | -                    | -              | 248            | 218         | V        |
| * 1.17          | 64.68                | PK1 | 24.9      | -44.97         | 44.61                      | 54                           | -9.39       | 74                     | -29.39         | -                    | -              | 109            | 356         | V        |
| * 1.3           | 64.95                | PK1 | 25.4      | -44.75         | 45.6                       | 54                           | -8.4        | 74                     | -28.4          | -                    | -              | 360            | 201         | V        |
| * 1.492         | 63.99                | PK1 | 25.1      | -44.34         | 44.75                      | 54                           | -9.25       | 74                     | -29.25         | -                    | -              | 58             | 247         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

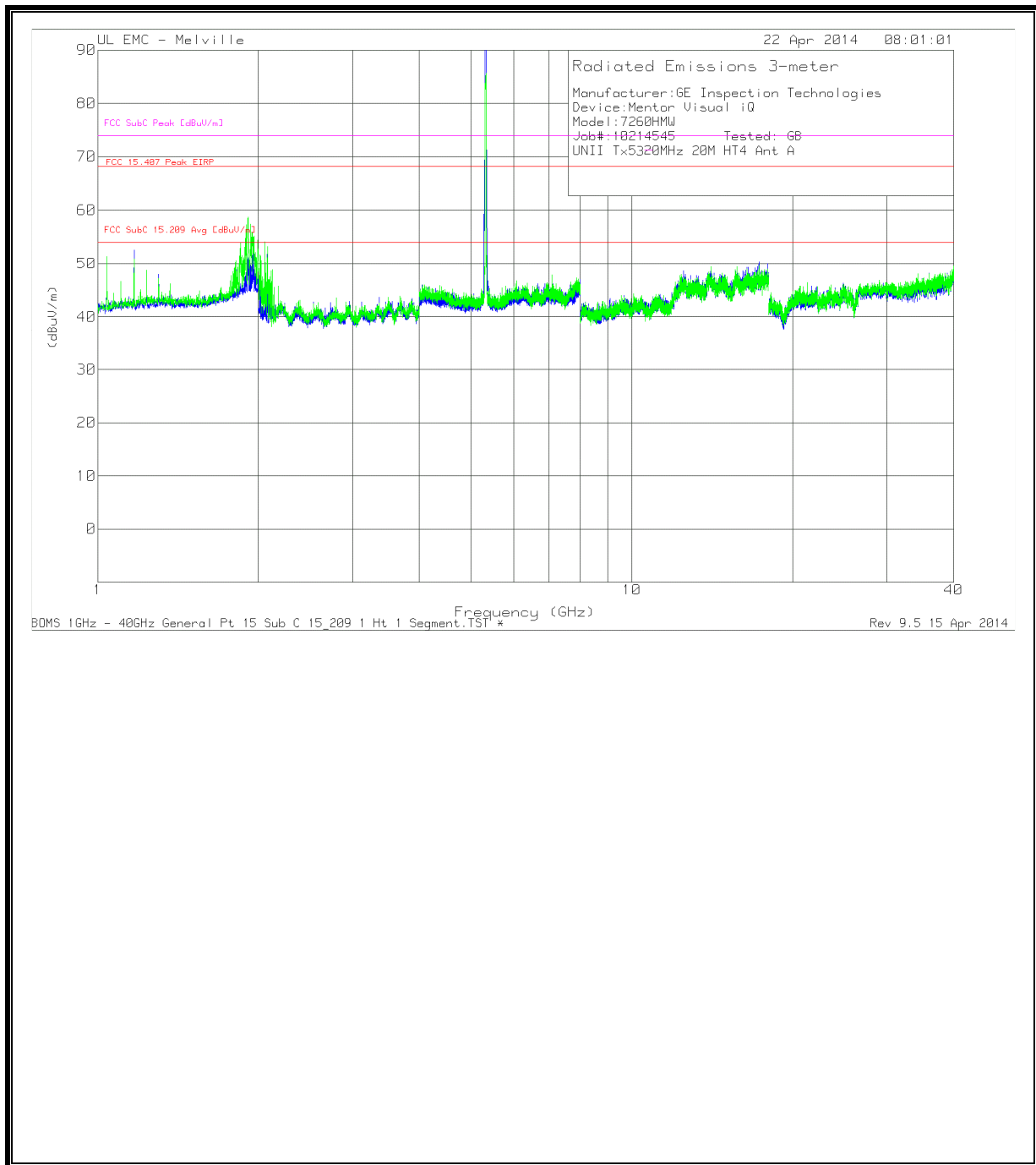
Note: No spurious emissions observed beyond the fundamental frequency

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL CHAIN A**



DATA

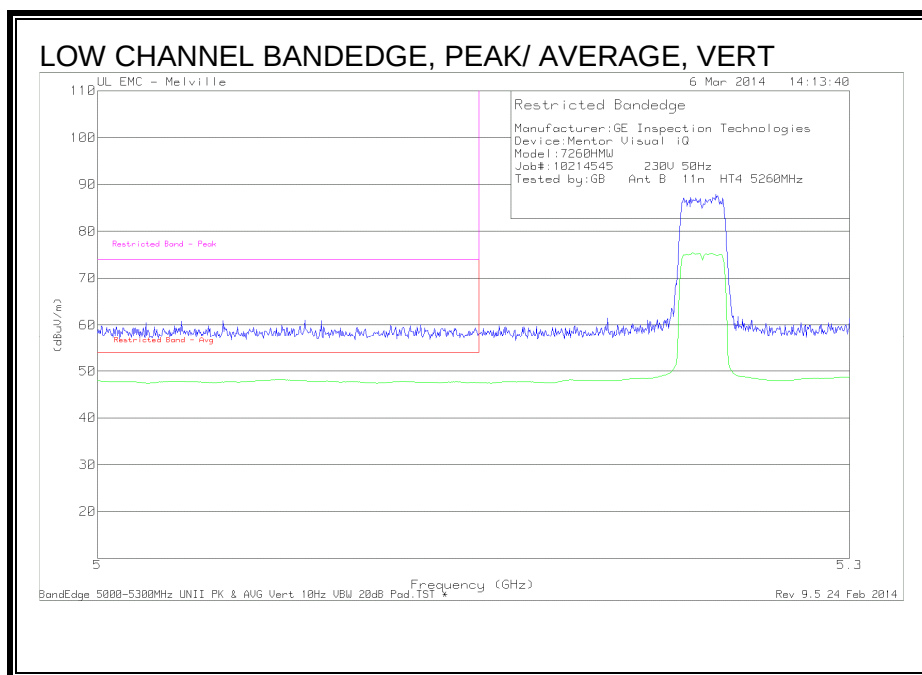
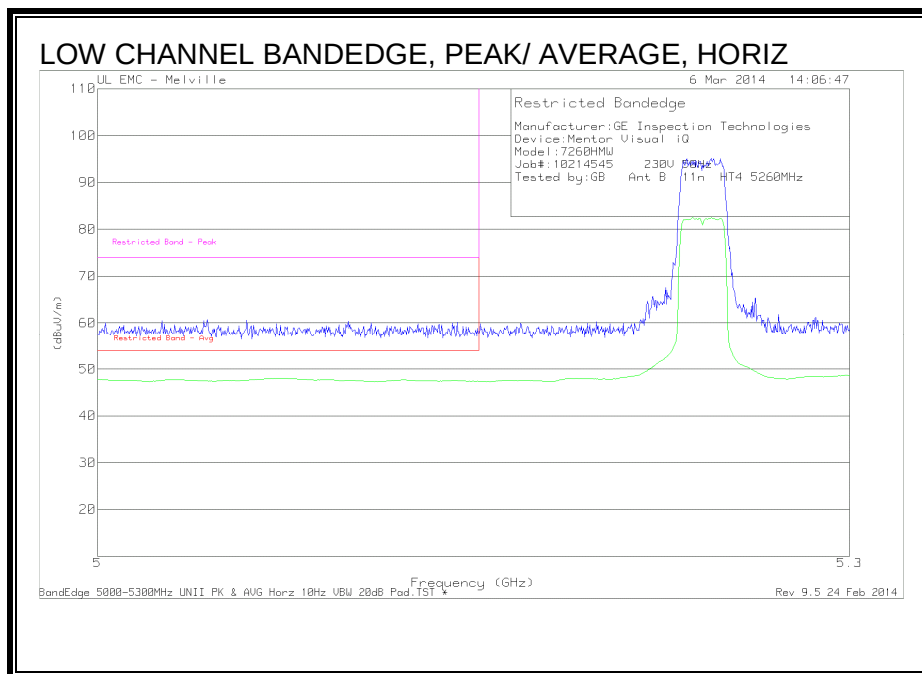
| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

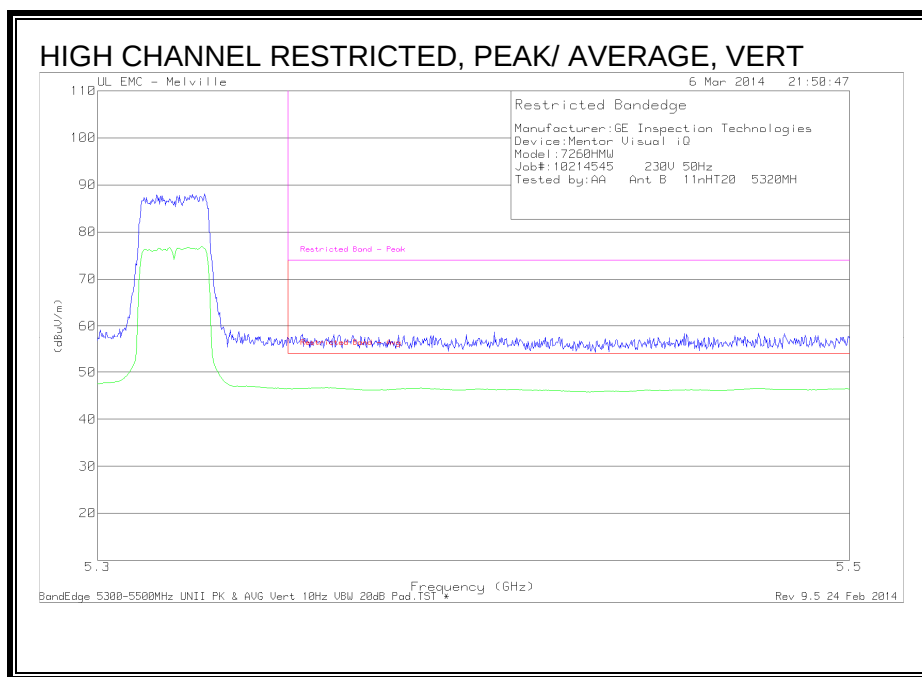
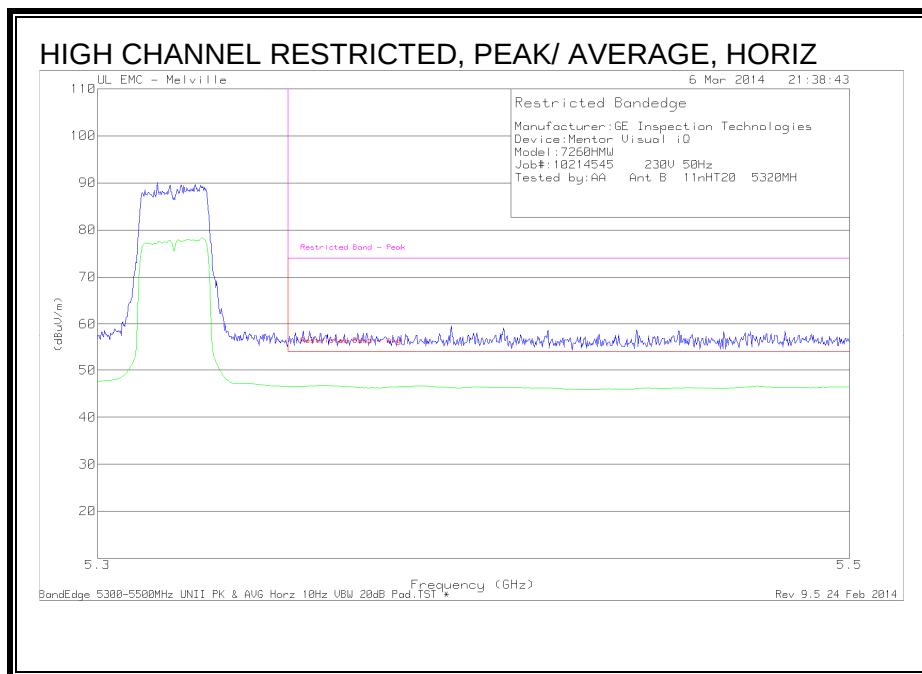
Note: No spurious emissions observed beyond the fundamental frequency

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

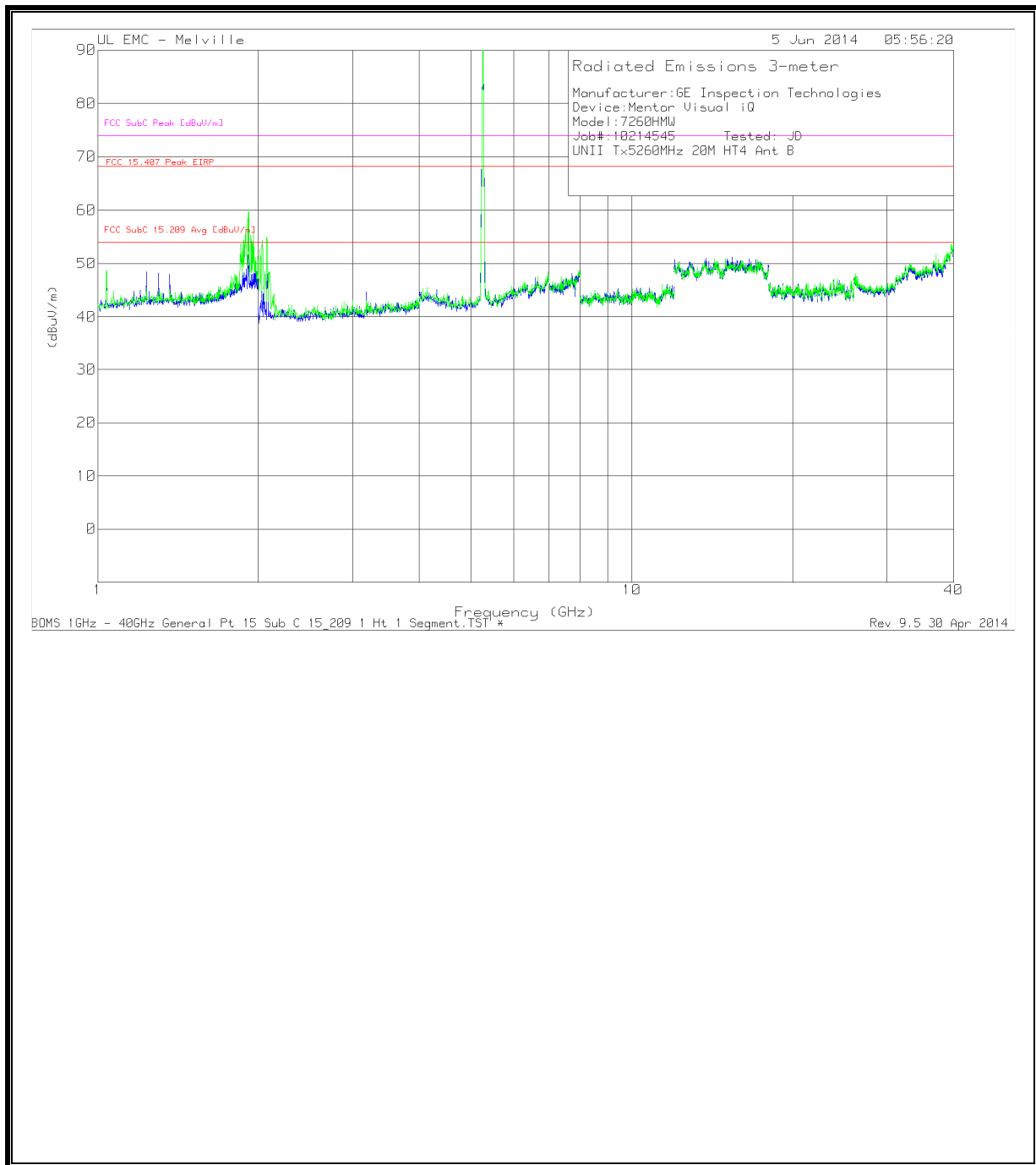
**AUTHORIZED BANDEDGE (LOW CHANNEL CHAIN B)**



**RESTRICTED BANDEDGE (HIGH CHANNEL CHAIN B)**



**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL CHAIN B**



DATA

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

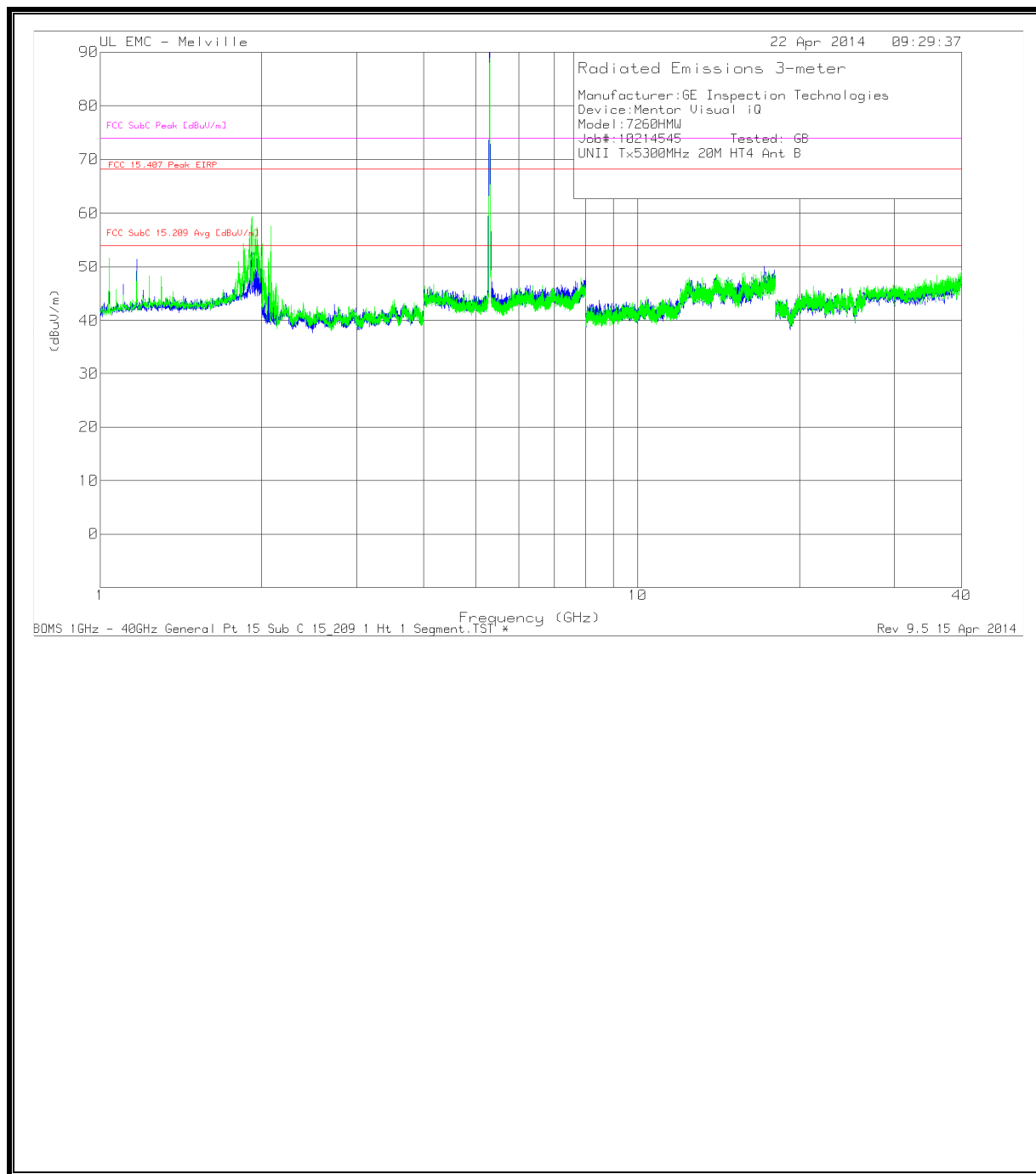
Note: No spurious emissions observed beyond the fundamental frequency

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL CHAIN B**



DATA

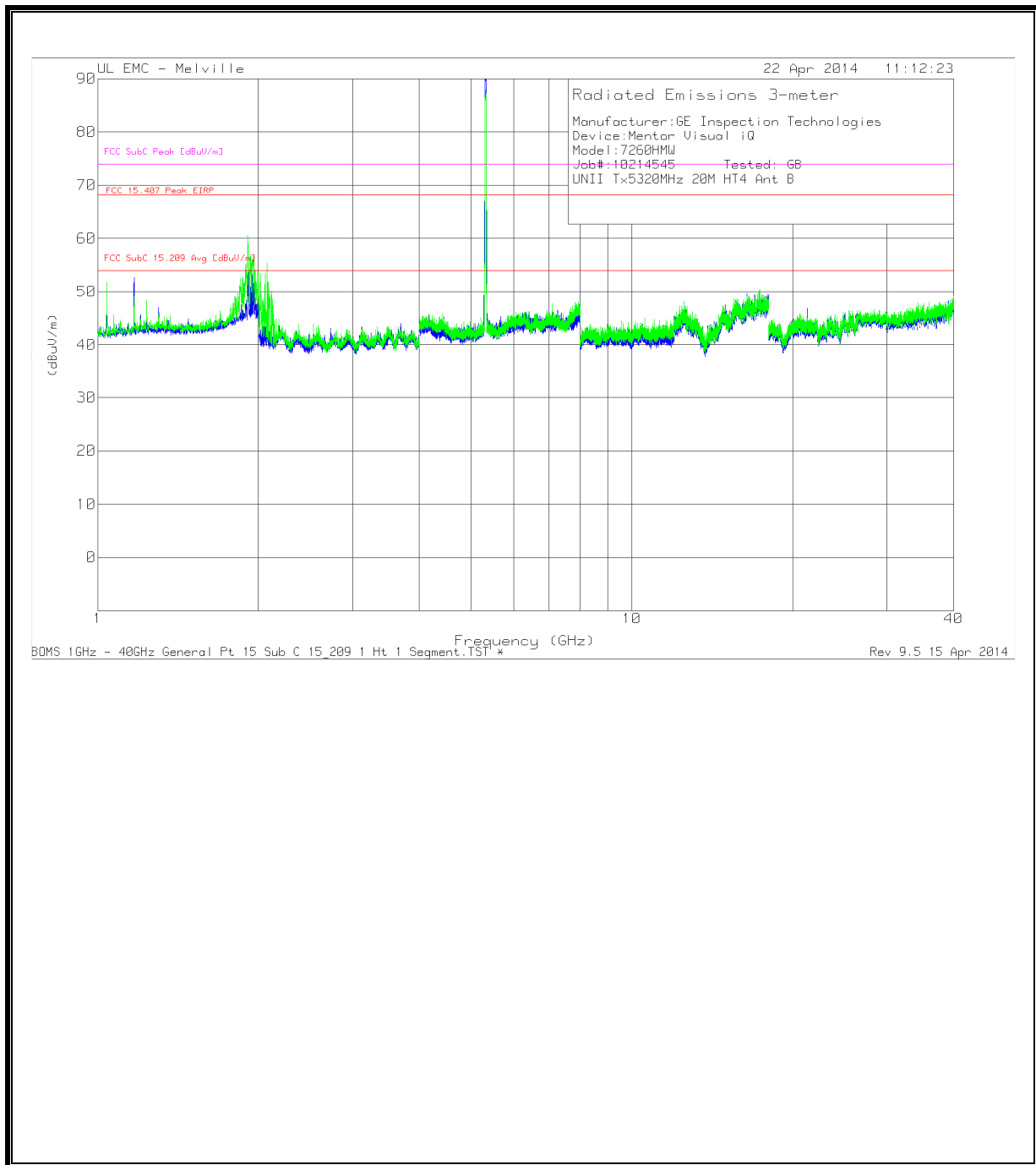
| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

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

**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL CHAIN B**



DATA

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

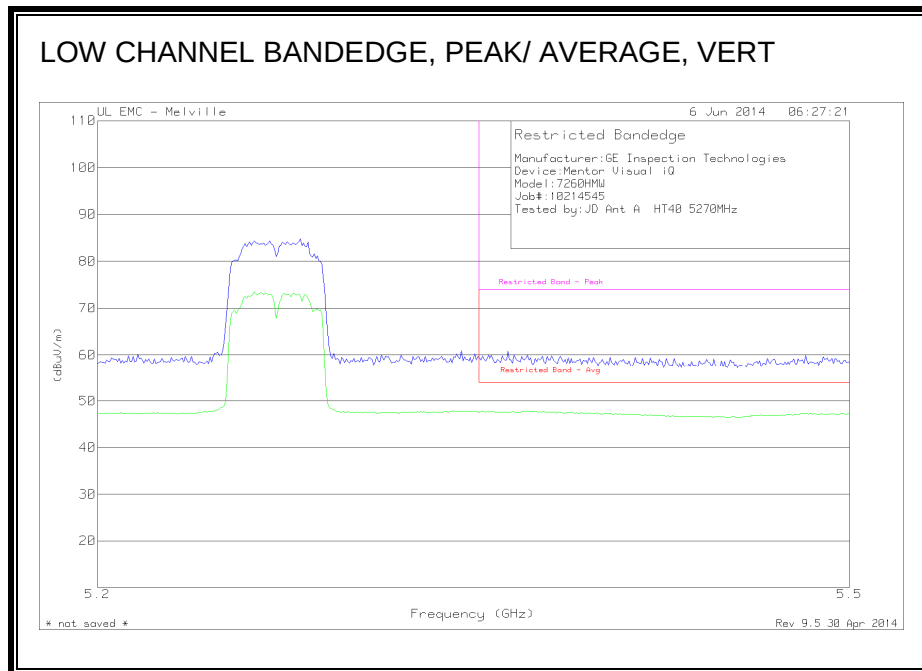
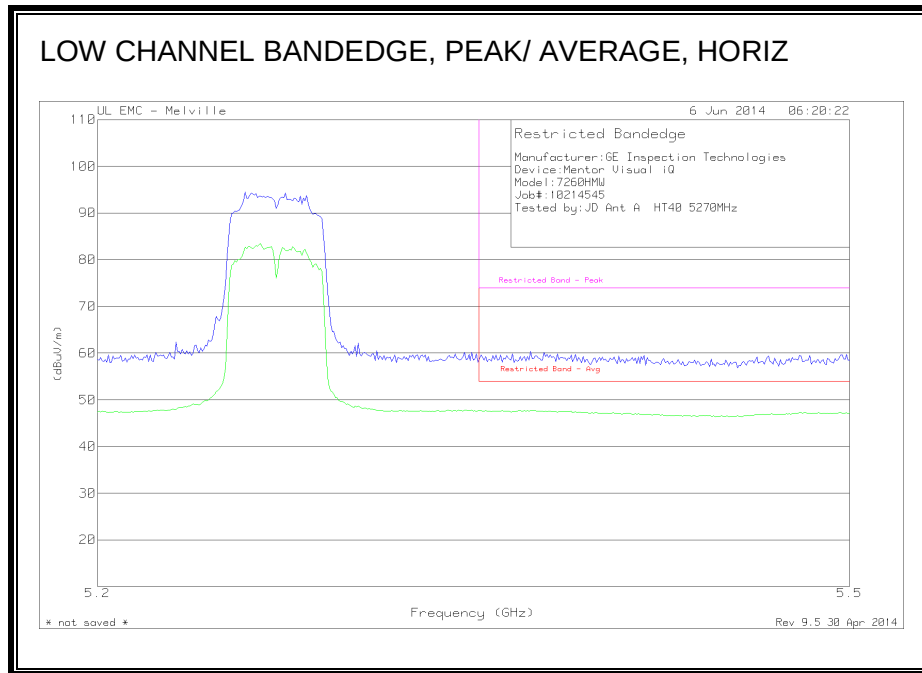
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK1 - KDB789033 Method: Peak

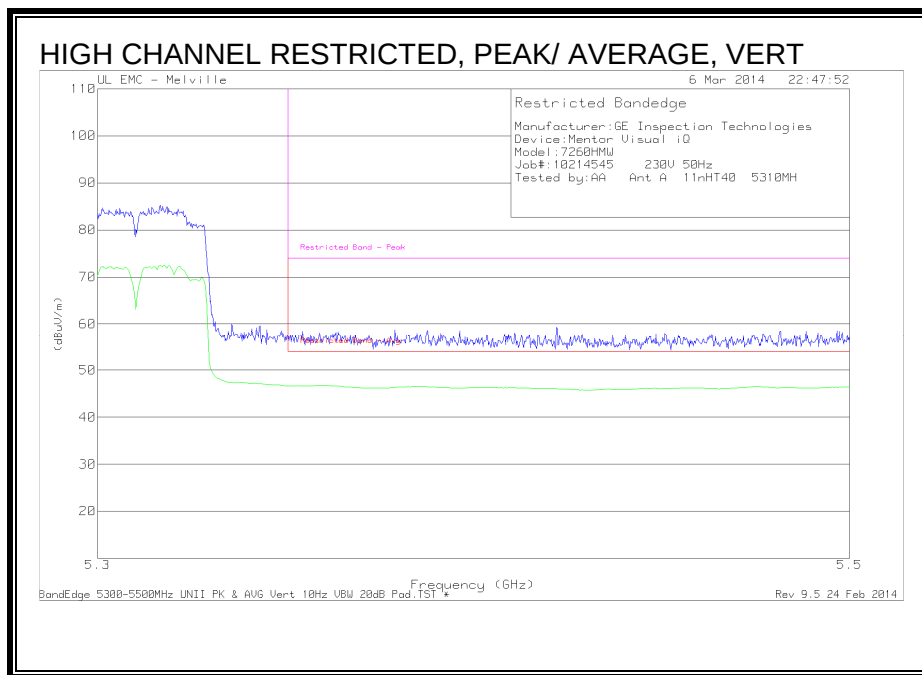
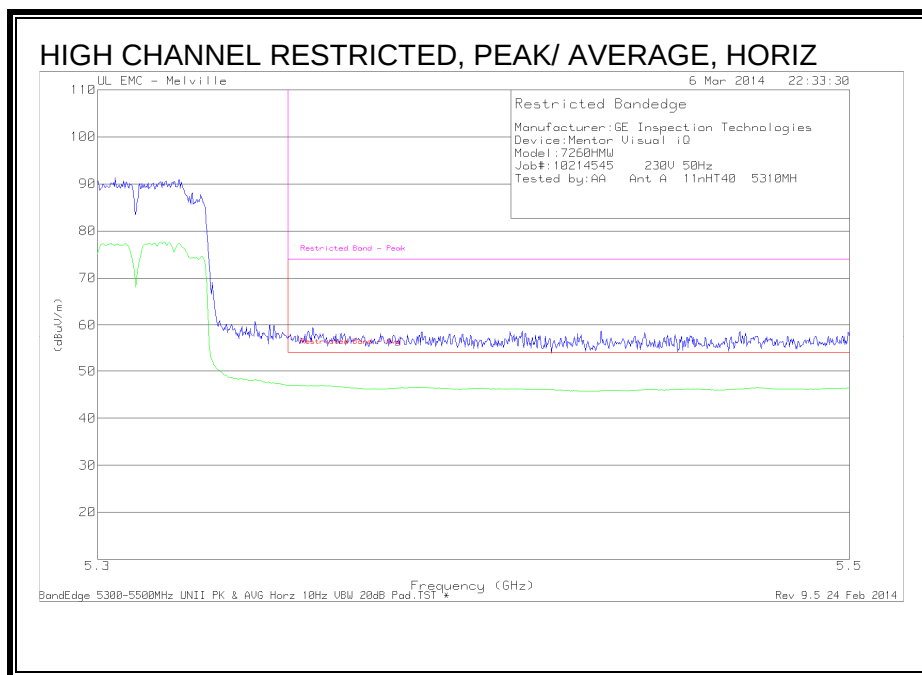
AD1 - KDB789033 Method: AD Primary Power Average

## 8.8. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.3 GHz BAND (SISO)

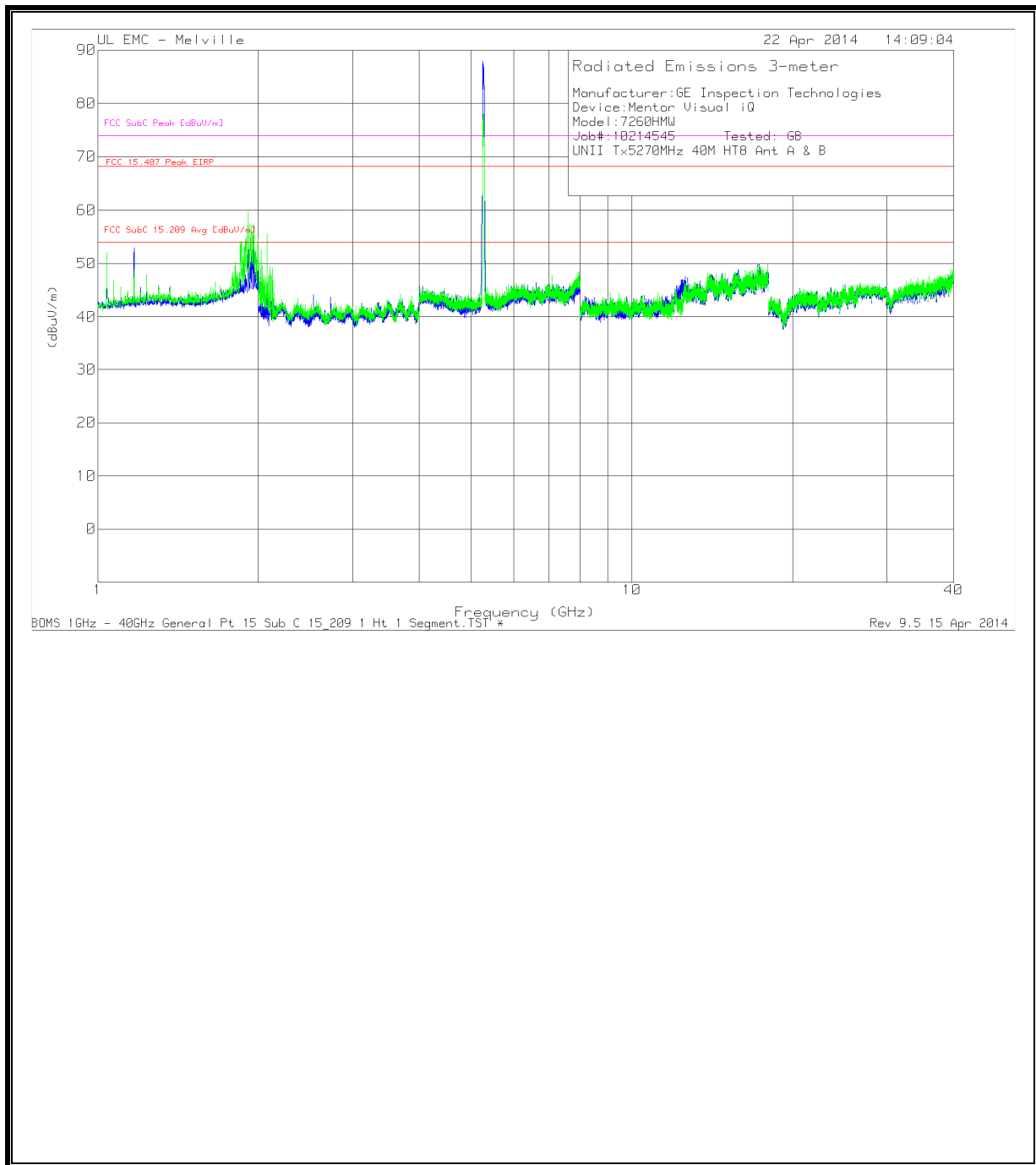
### 8.8.1. AUTHORIZED BANDEDGE (LOW CHANNEL CHAIN A)



**RESTRICTED BANDEDGE (HIGH CHANNEL CHAIN A)**



**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL CHAIN A**



DATA

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

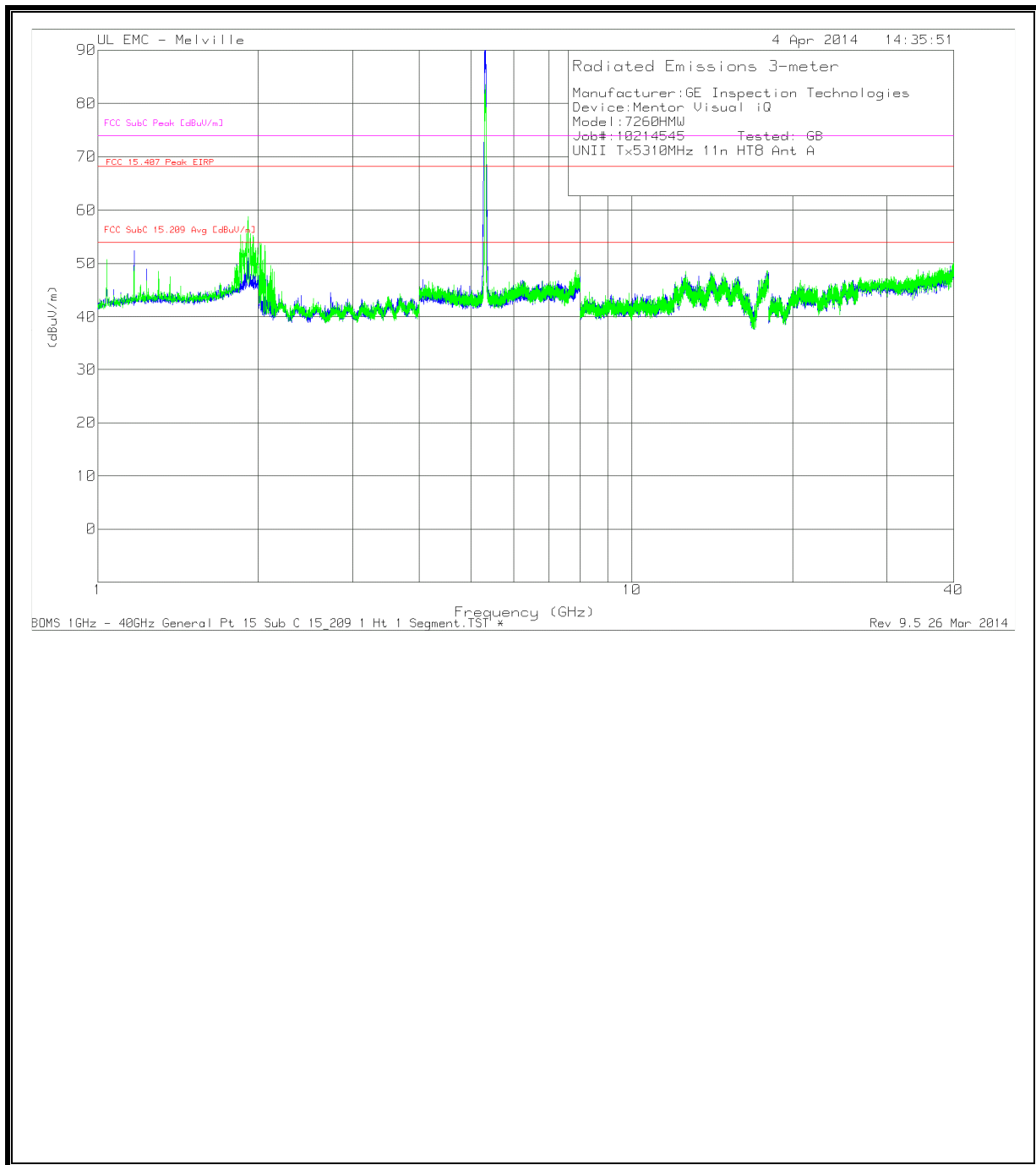
Note: No spurious emissions observed beyond the fundamental frequency

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

PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL CHAIN A**



**DATA**

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-48107 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 2.203         | 48.64                | AD1 | 21.5            | -39.93         | 30.21                      | 54                           | -23.79      | -                      | -              | -                    | -              | 209            | 228         | V        |
| * 2.203         | 65.29                | PK  | 21.3            | -39.93         | 46.66                      | 54                           | -7.34       | 74                     | -27.34         | -                    | -              | 0-360          | 100         | V        |

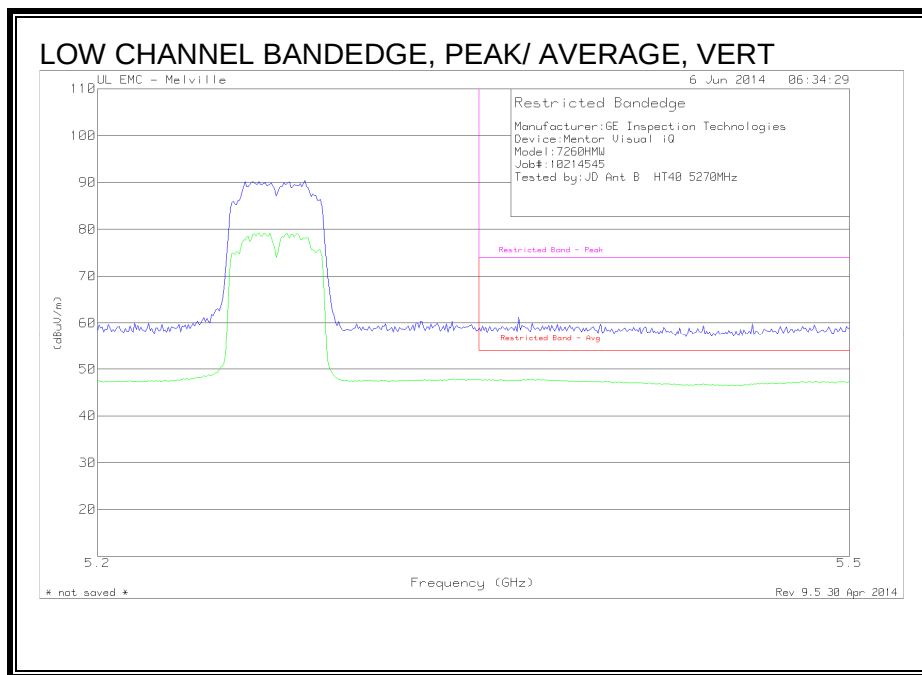
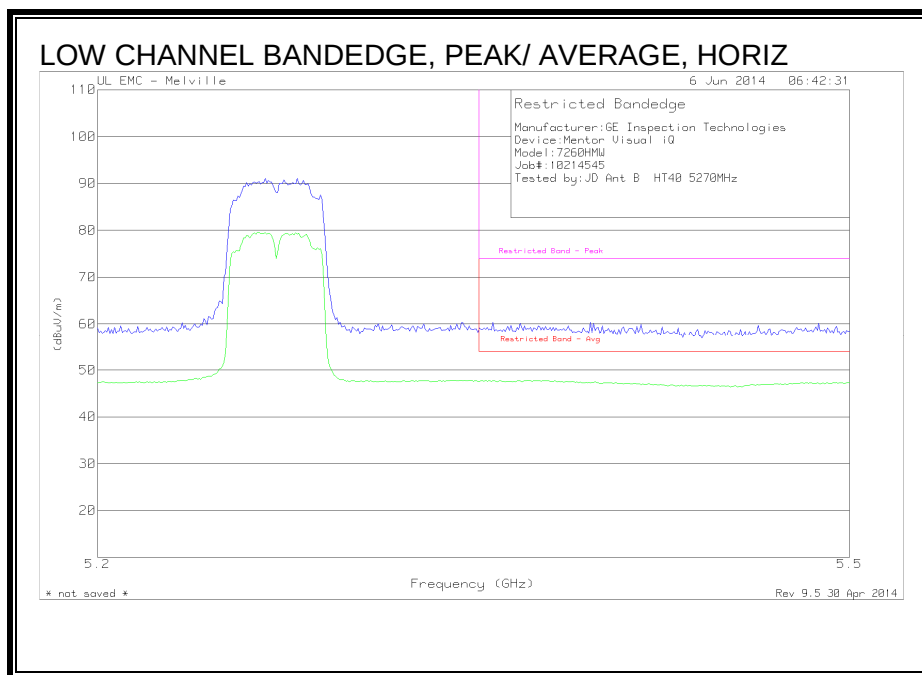
Note: No spurious emissions observed beyond the fundamental frequency

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

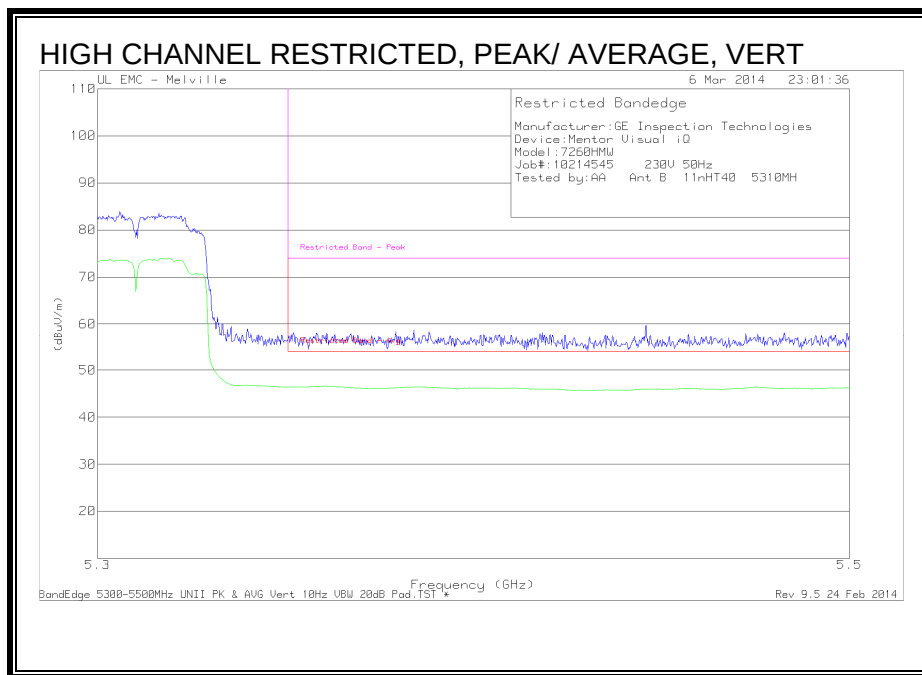
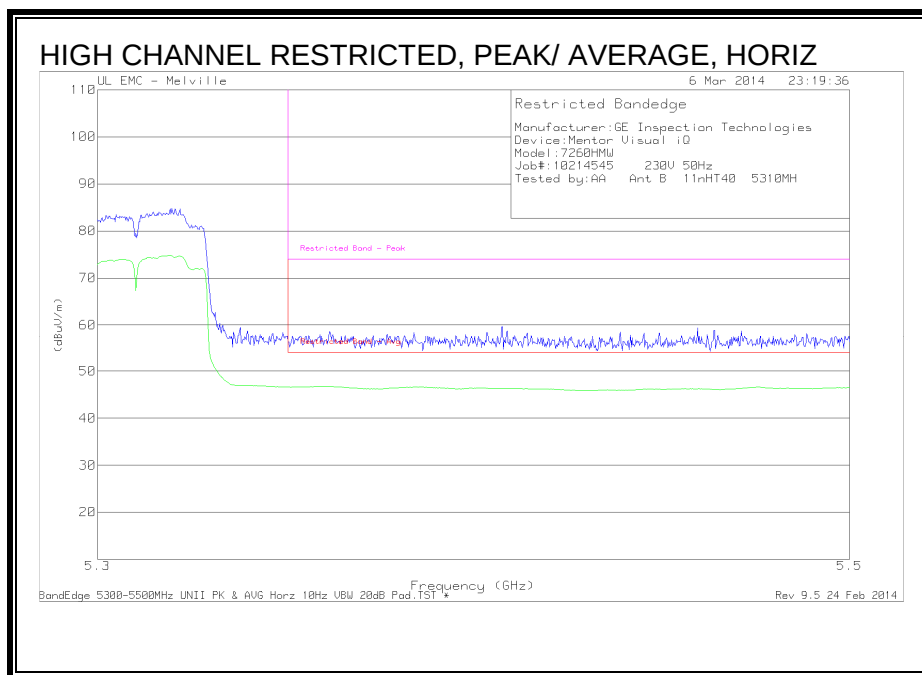
PK1 - KDB789033 Method: Peak

AD1 - KDB789033 Method: AD Primary Power Average

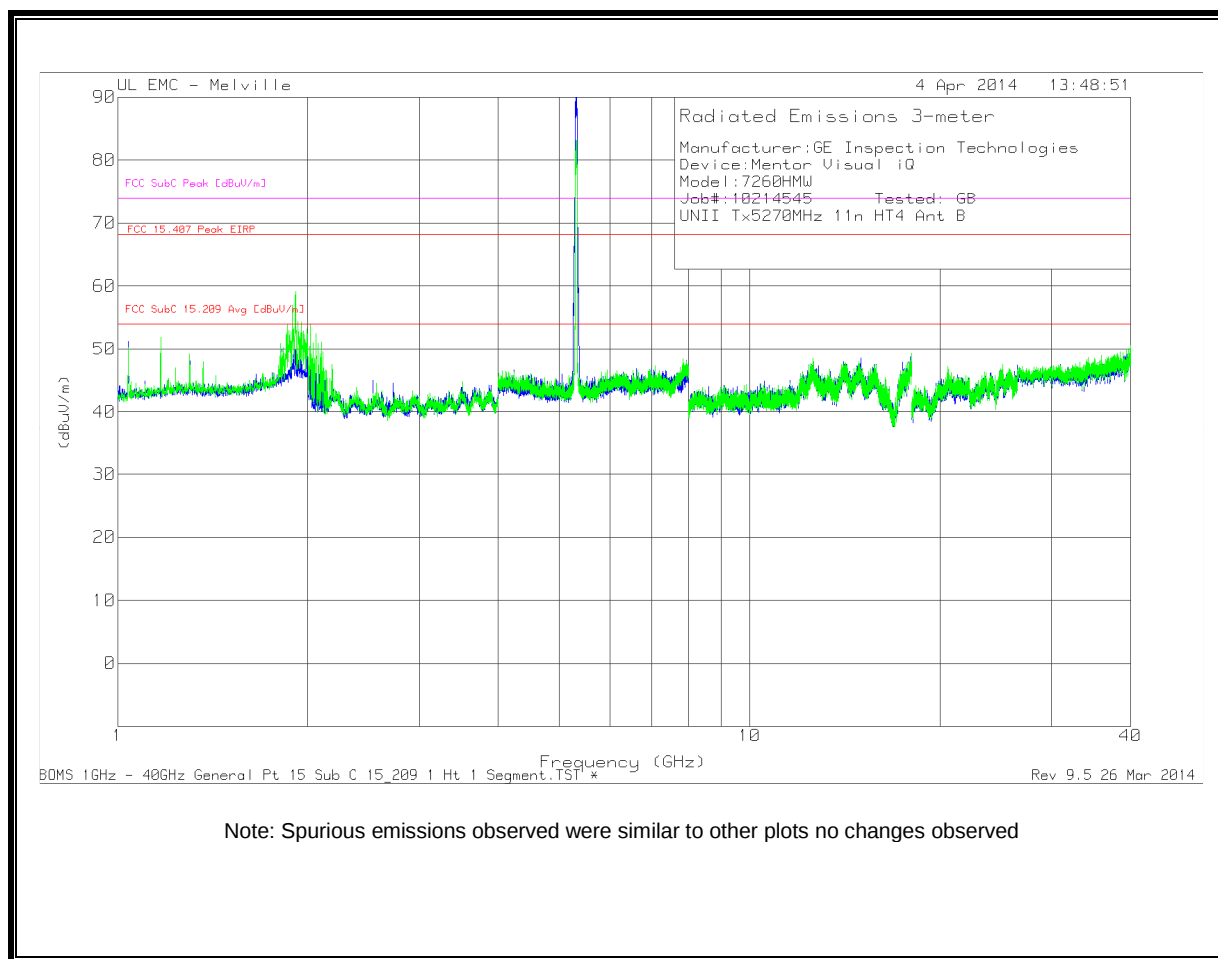
**AUTHORIZED BANDEDGE (LOW CHANNEL CHAIN B)**



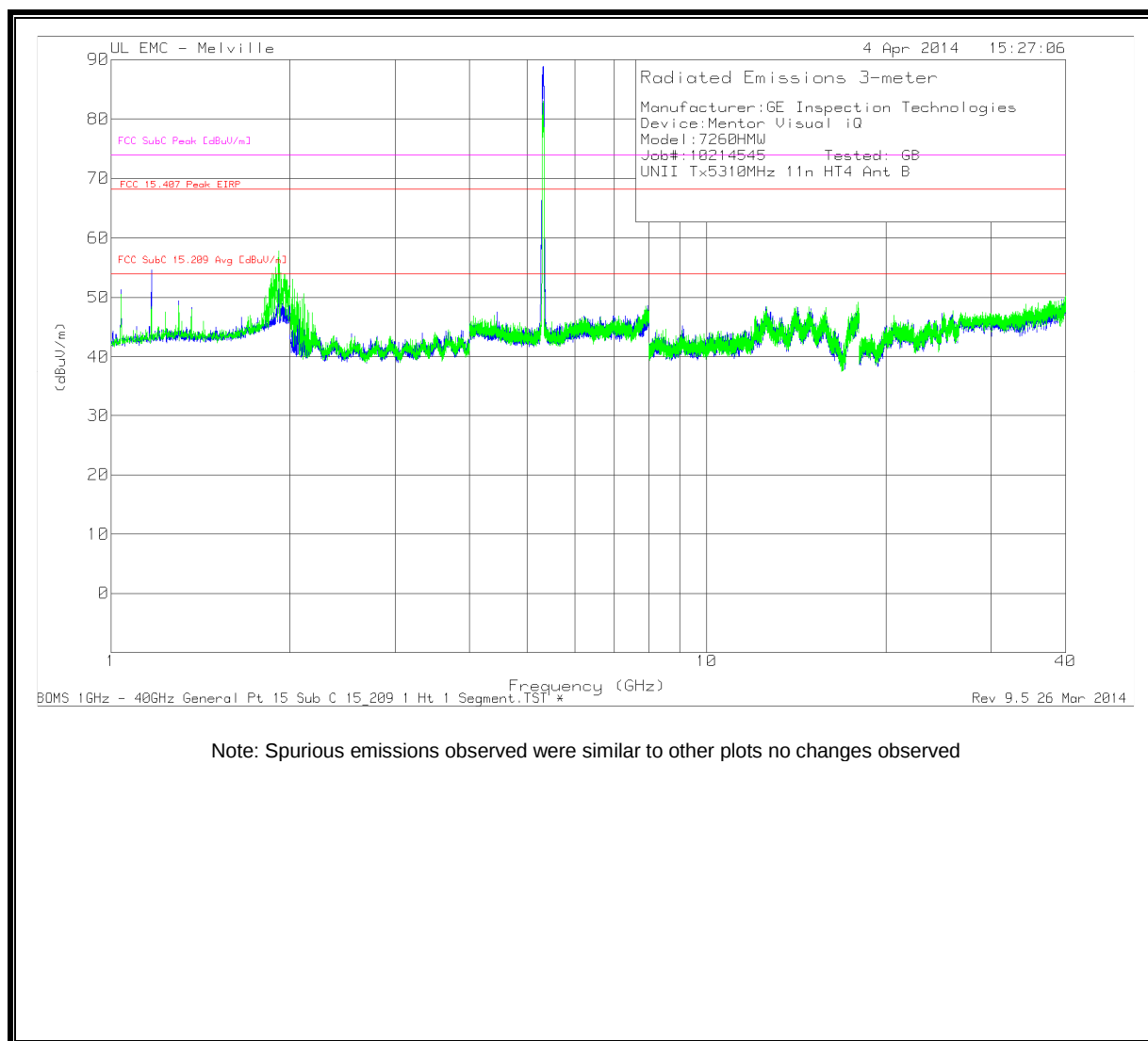
**RESTRICTED BANDEDGE (HIGH CHANNEL CHAIN B)**



**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL CHAIN B**

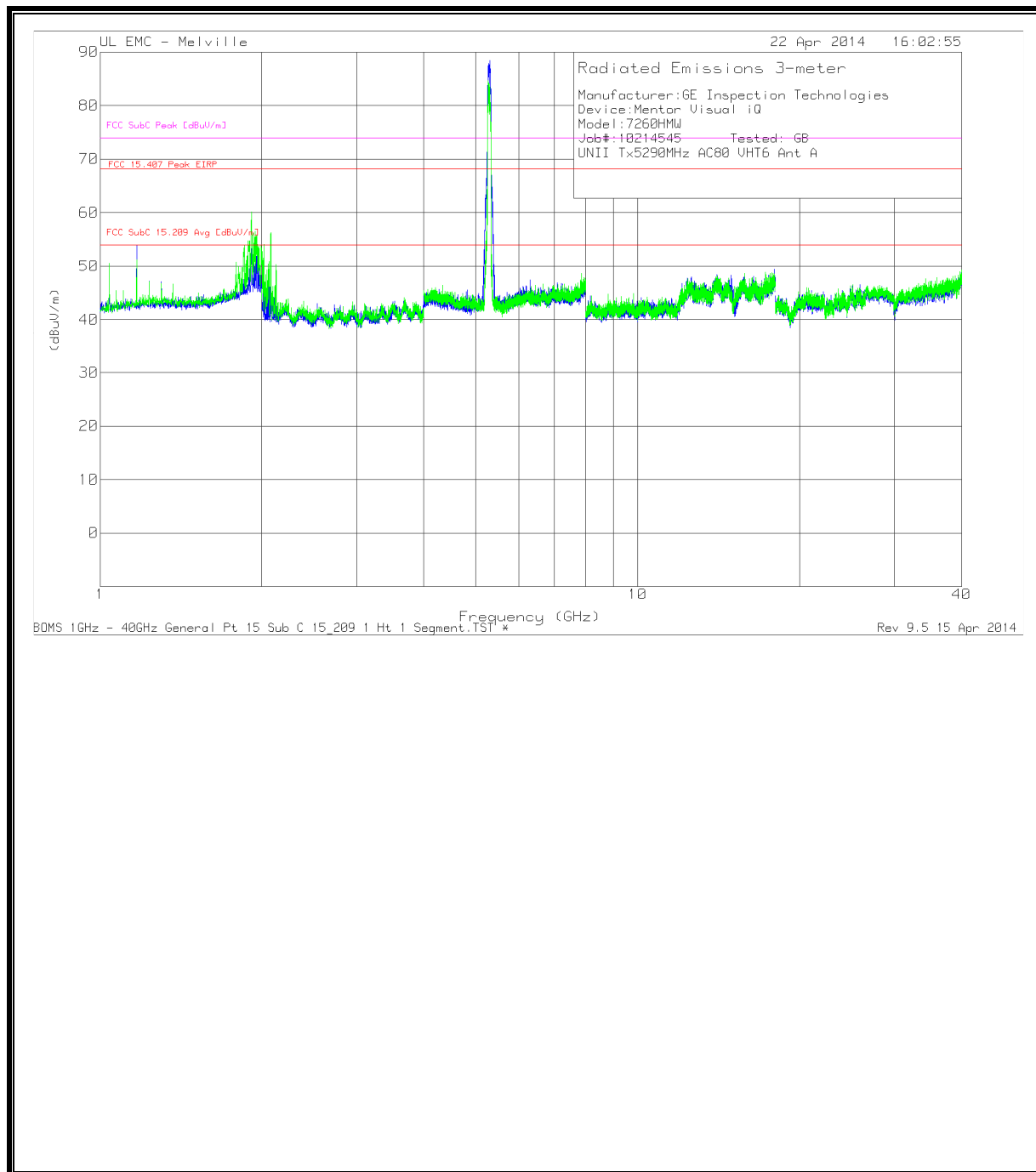


**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL CHAIN B**



## 8.9. TX ABOVE 1 GHz 802.11ac80 MODE IN THE 5.3 GHz BAND (SISO)

### HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL CHAIN A



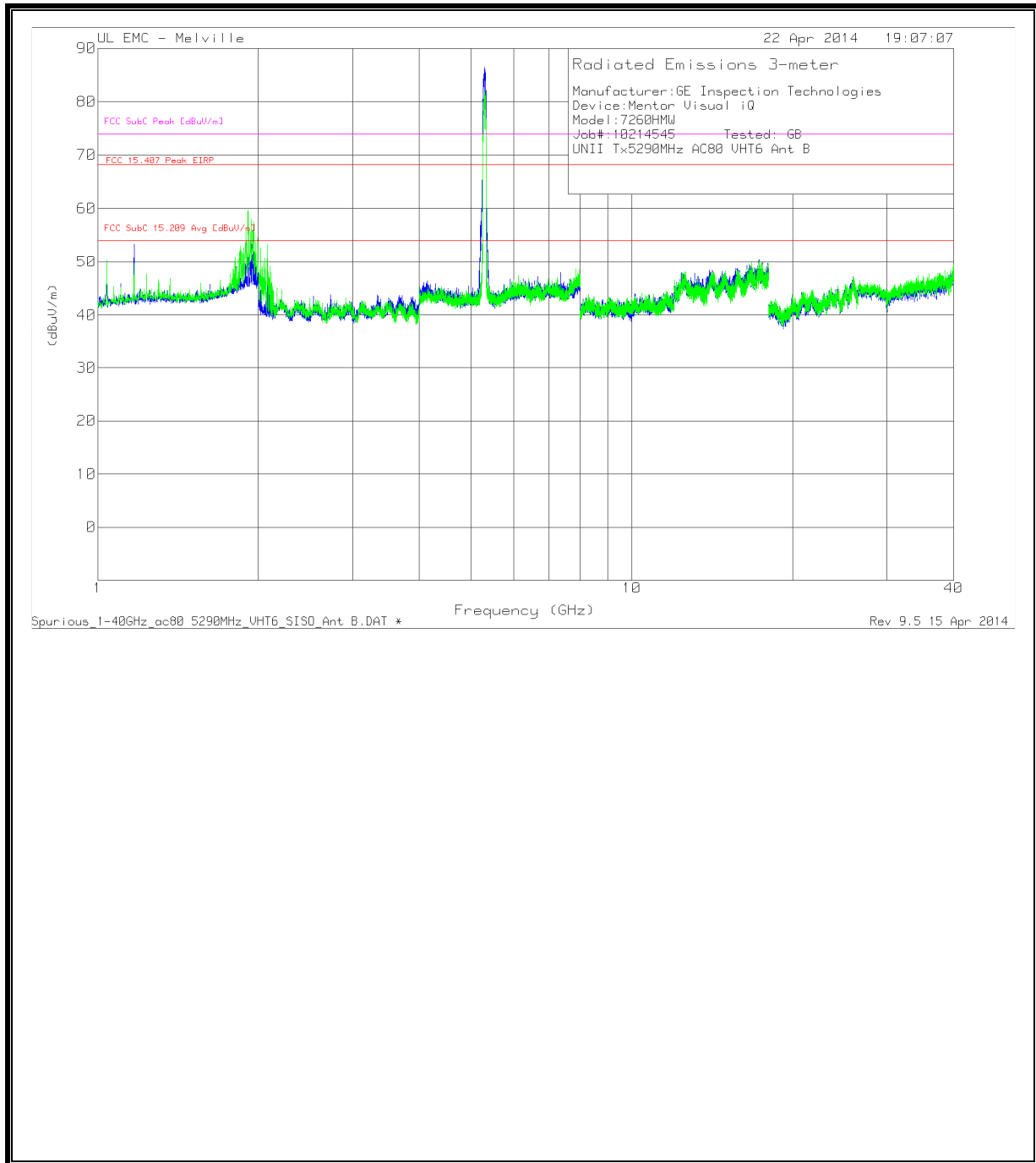
DATA

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

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

**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL CHAIN B**



# DATA

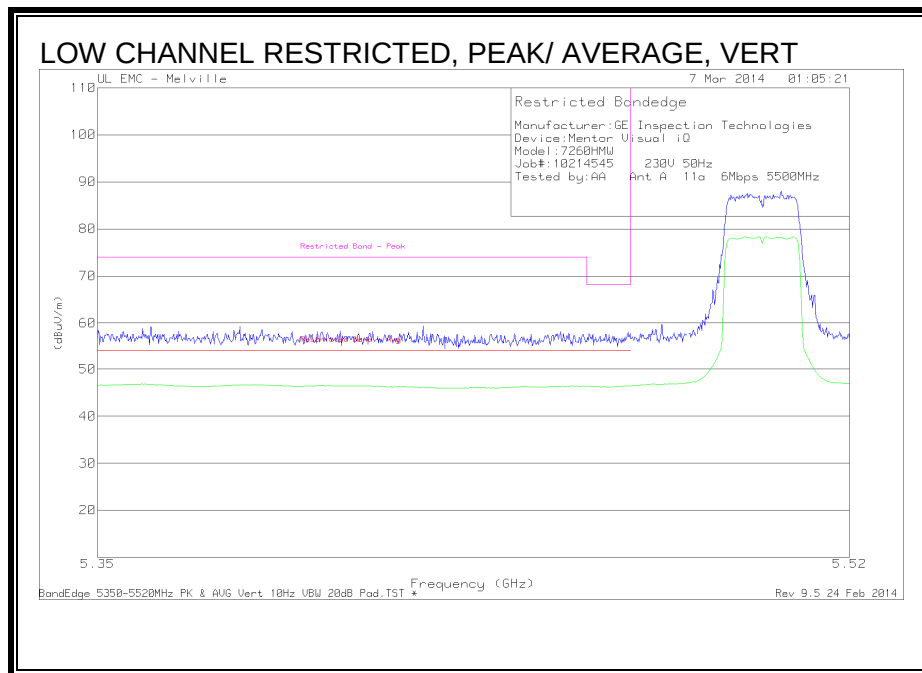
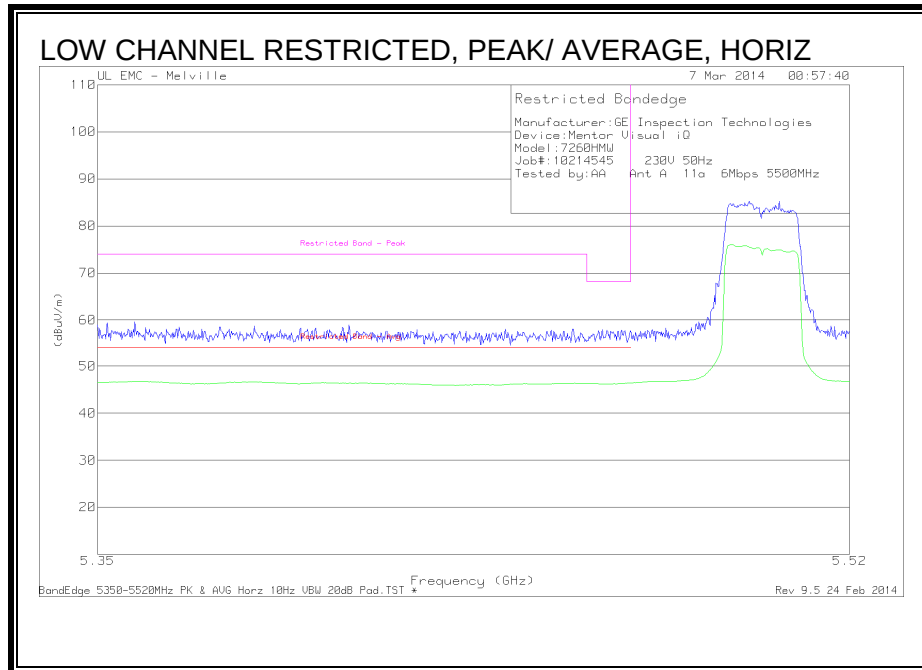
| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

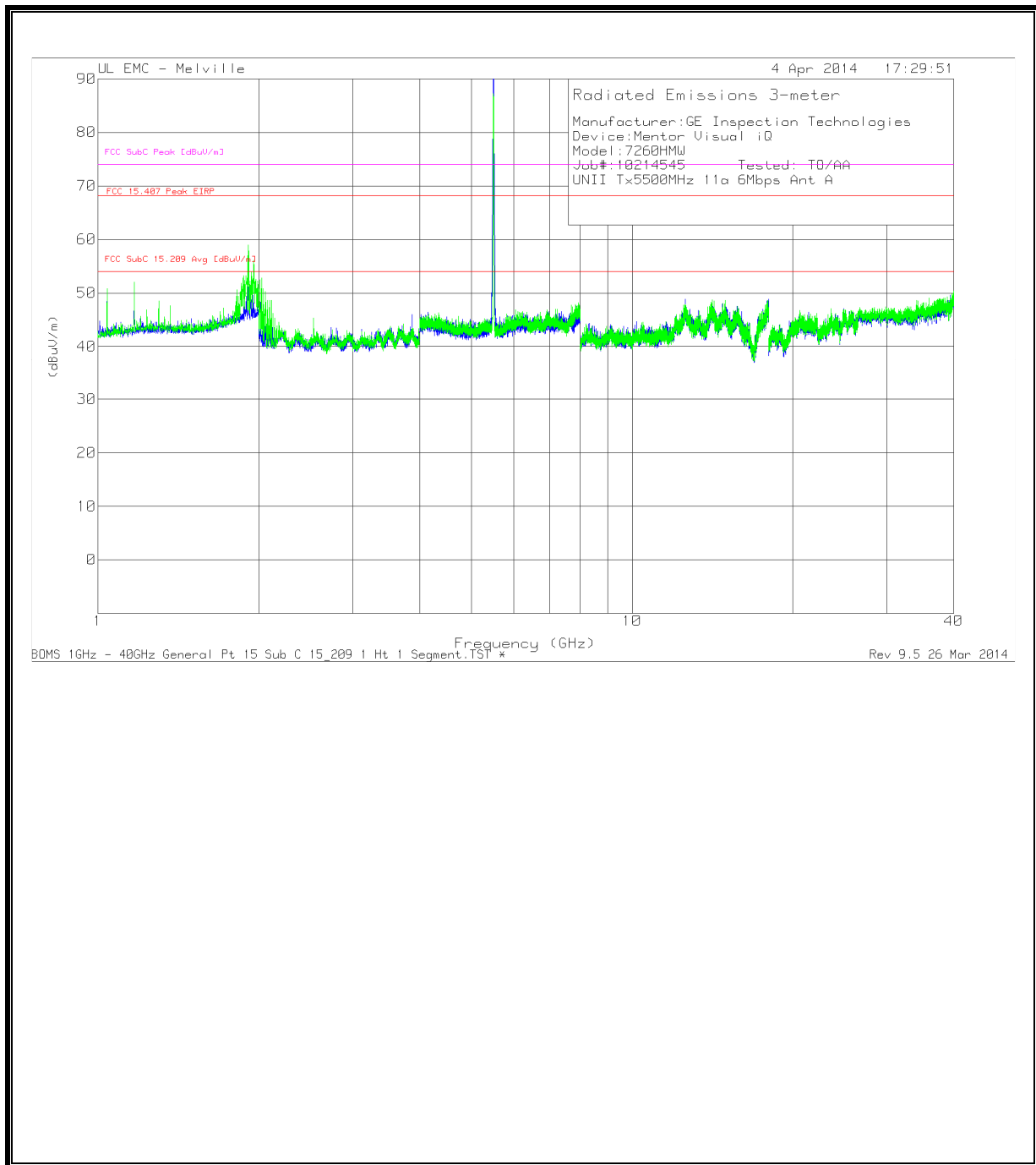
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band  
PK1 - KDB789033 Method: Peak  
AD1 - KDB789033 Method: AD Primary Power Average

## 8.10. TX ABOVE 1 GHz 802.11a MODE IN THE 5.6 GHz BAND (SISO)

### 8.10.1. RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL CHAIN A)



**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL CHAIN A**



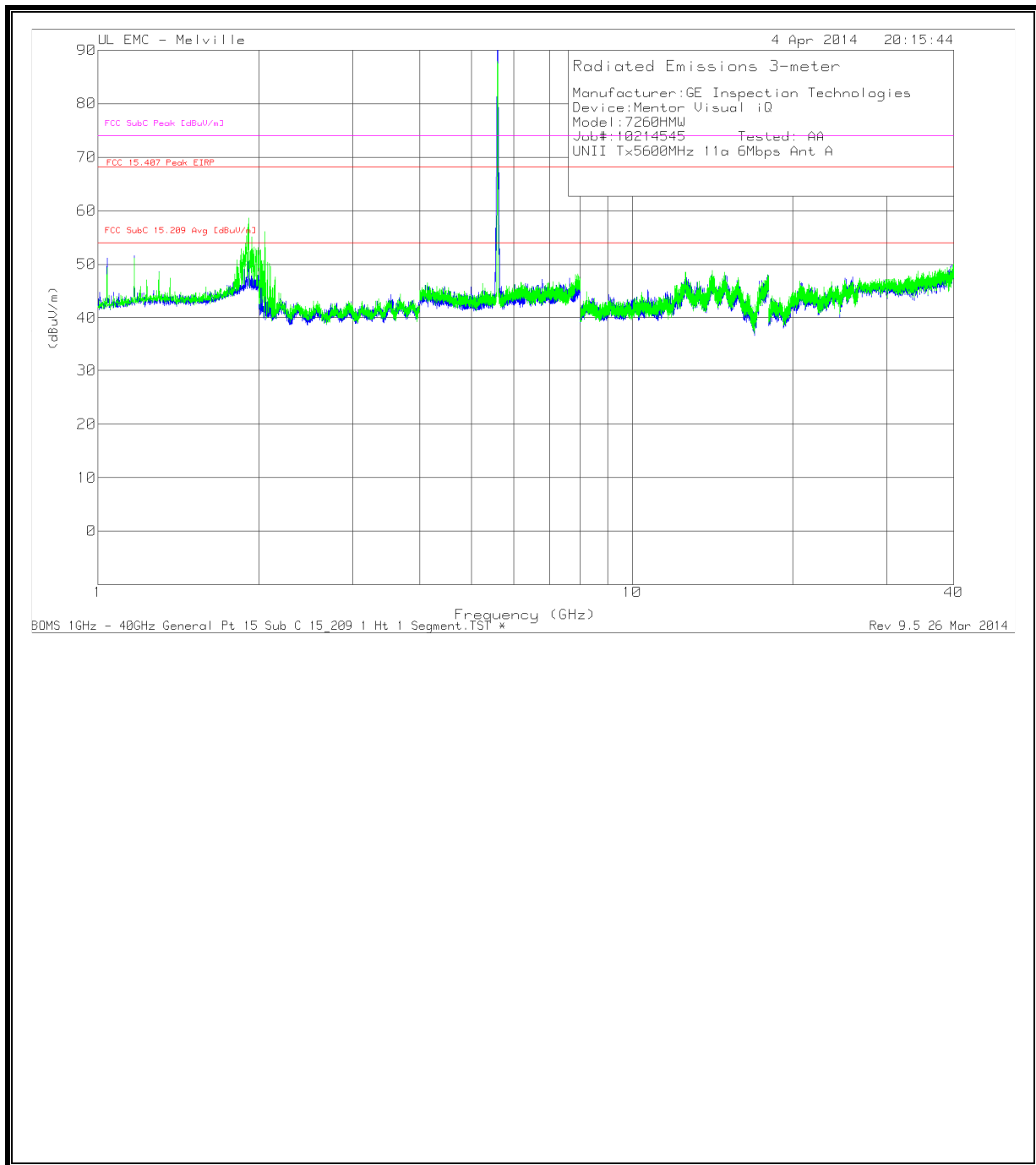
# DATA

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

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

**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL CHAIN A**



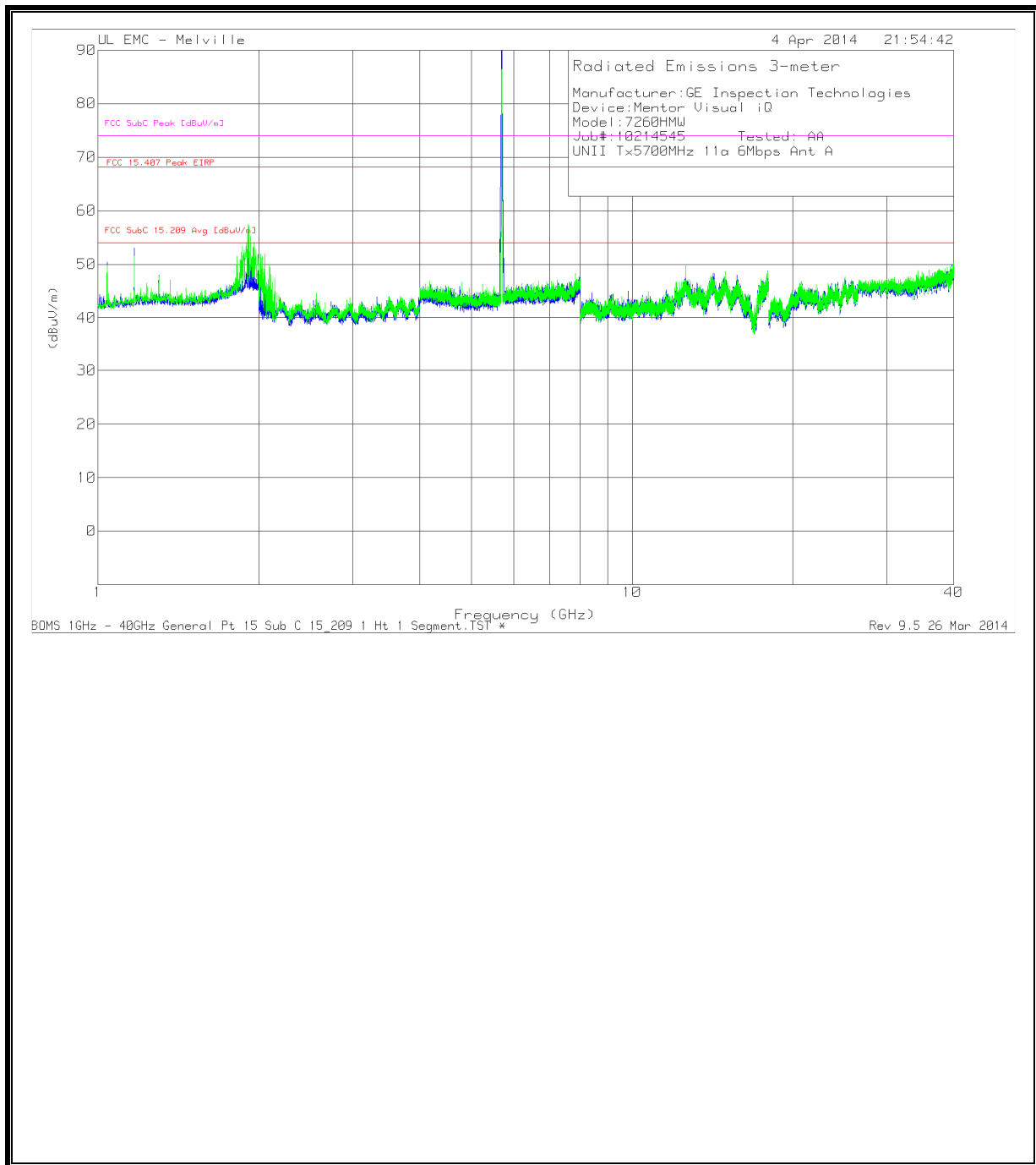
**DATA**

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

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

**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL CHAIN A**



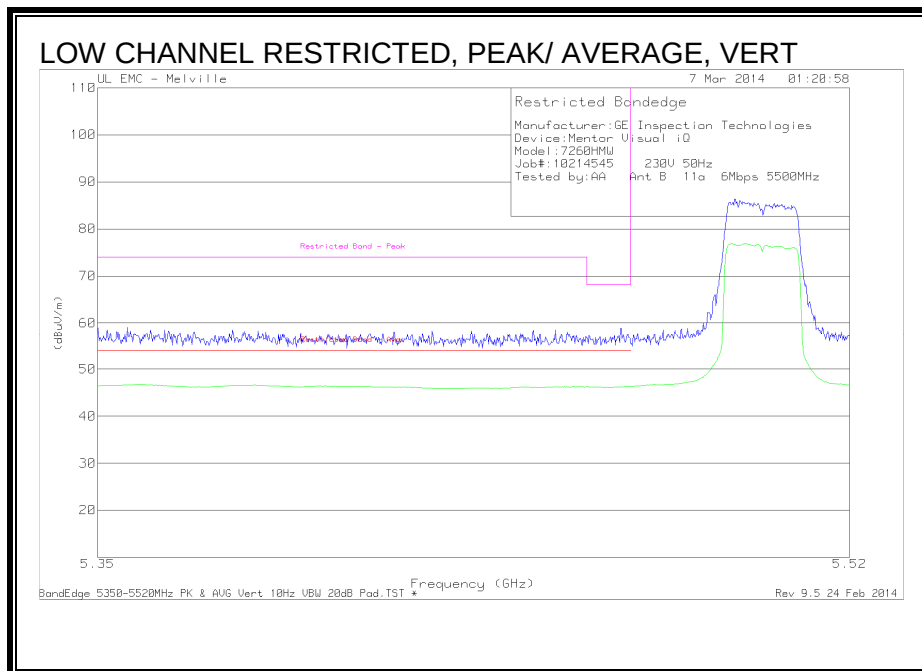
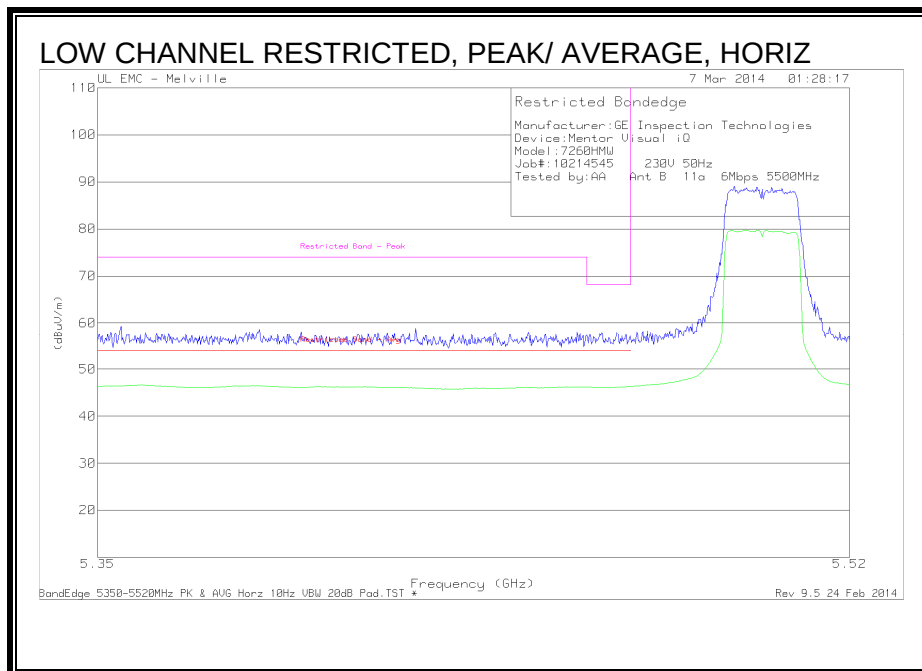
# DATA

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

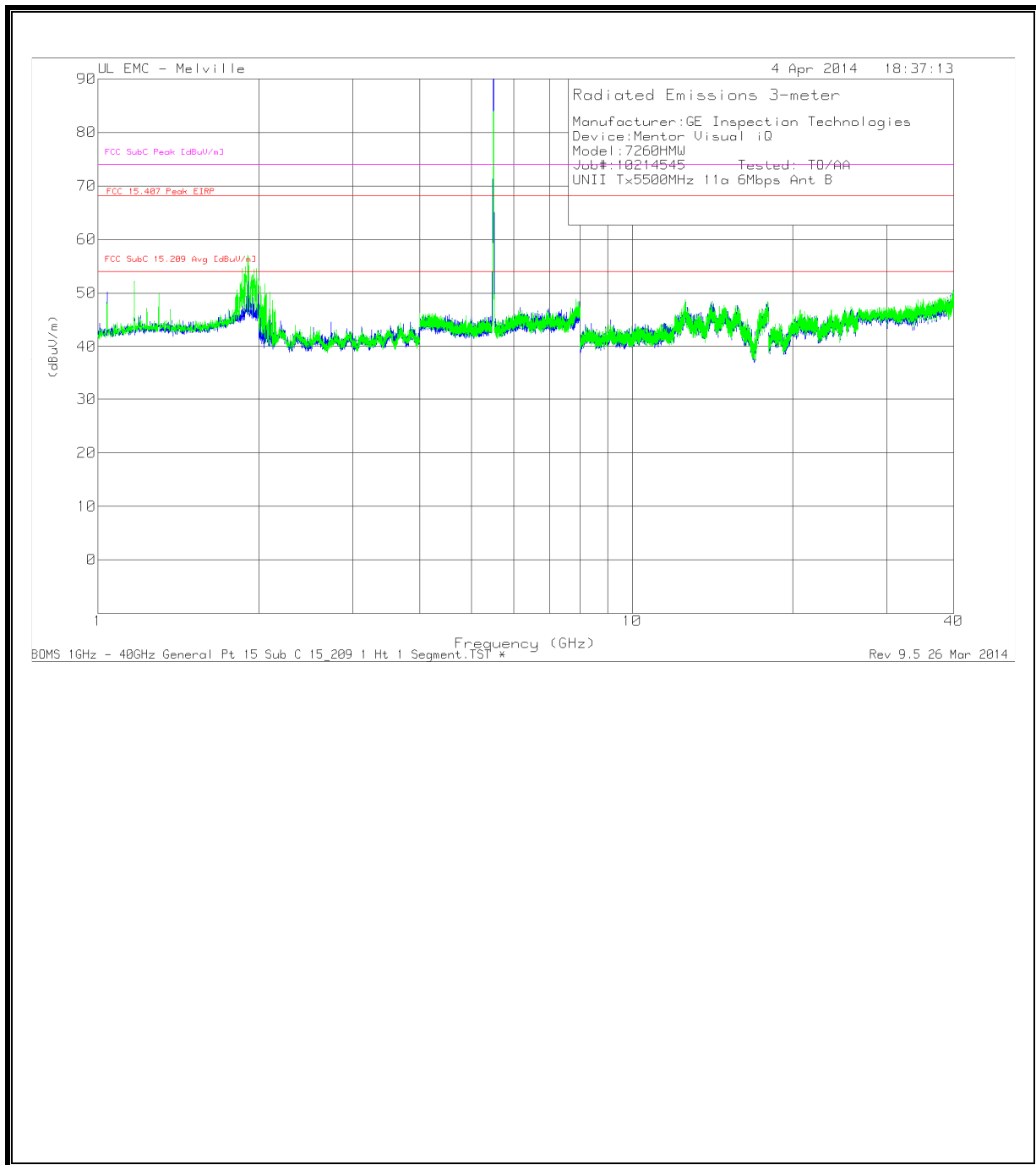
Note: No spurious emissions observed beyond the fundamental frequency

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

**RESTRICTED & AUTHORIZED BANDEGE (LOW CHANNEL CHAIN B)**



**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL CHAIN B**



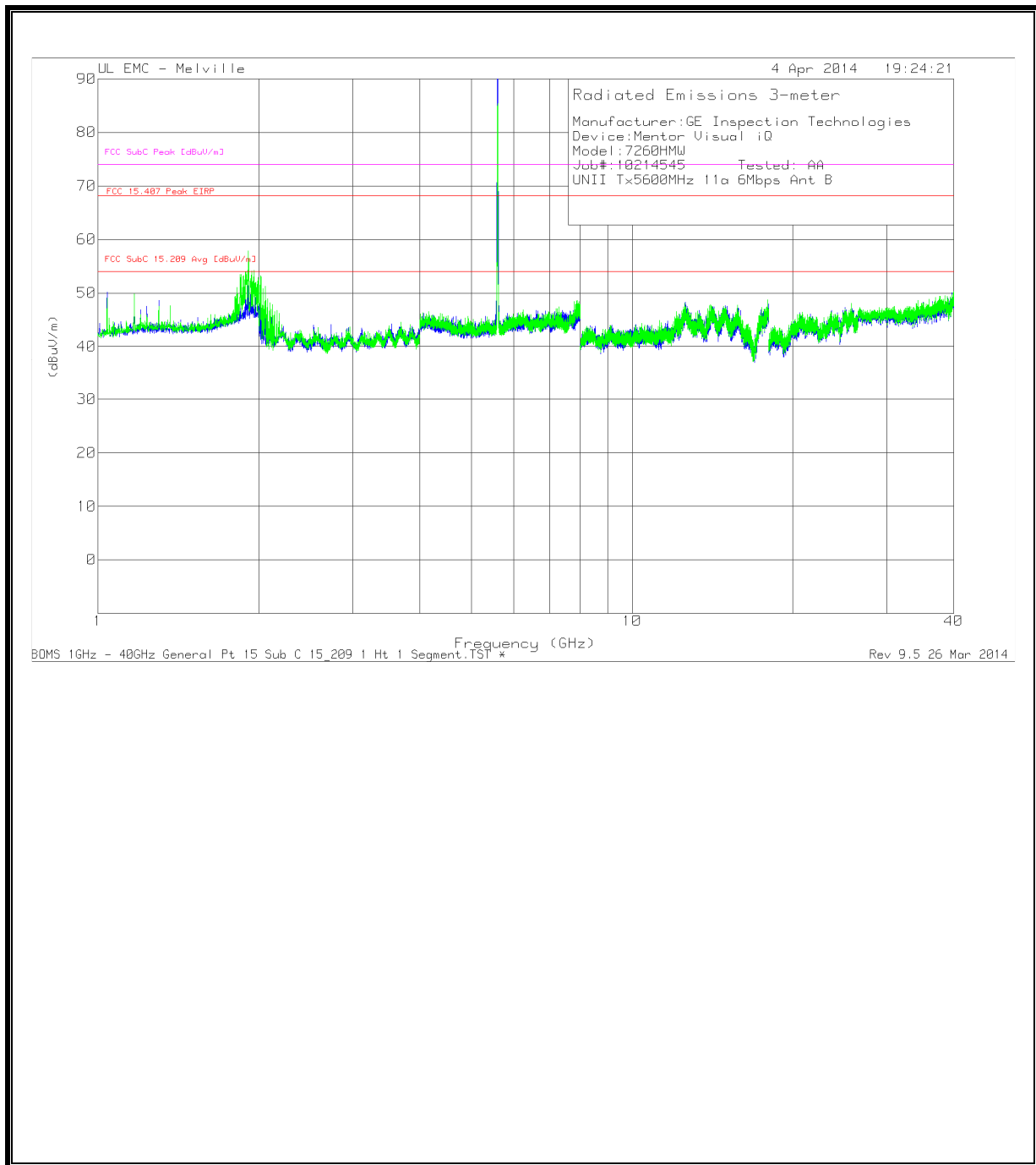
# DATA

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

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

**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL CHAIN B**



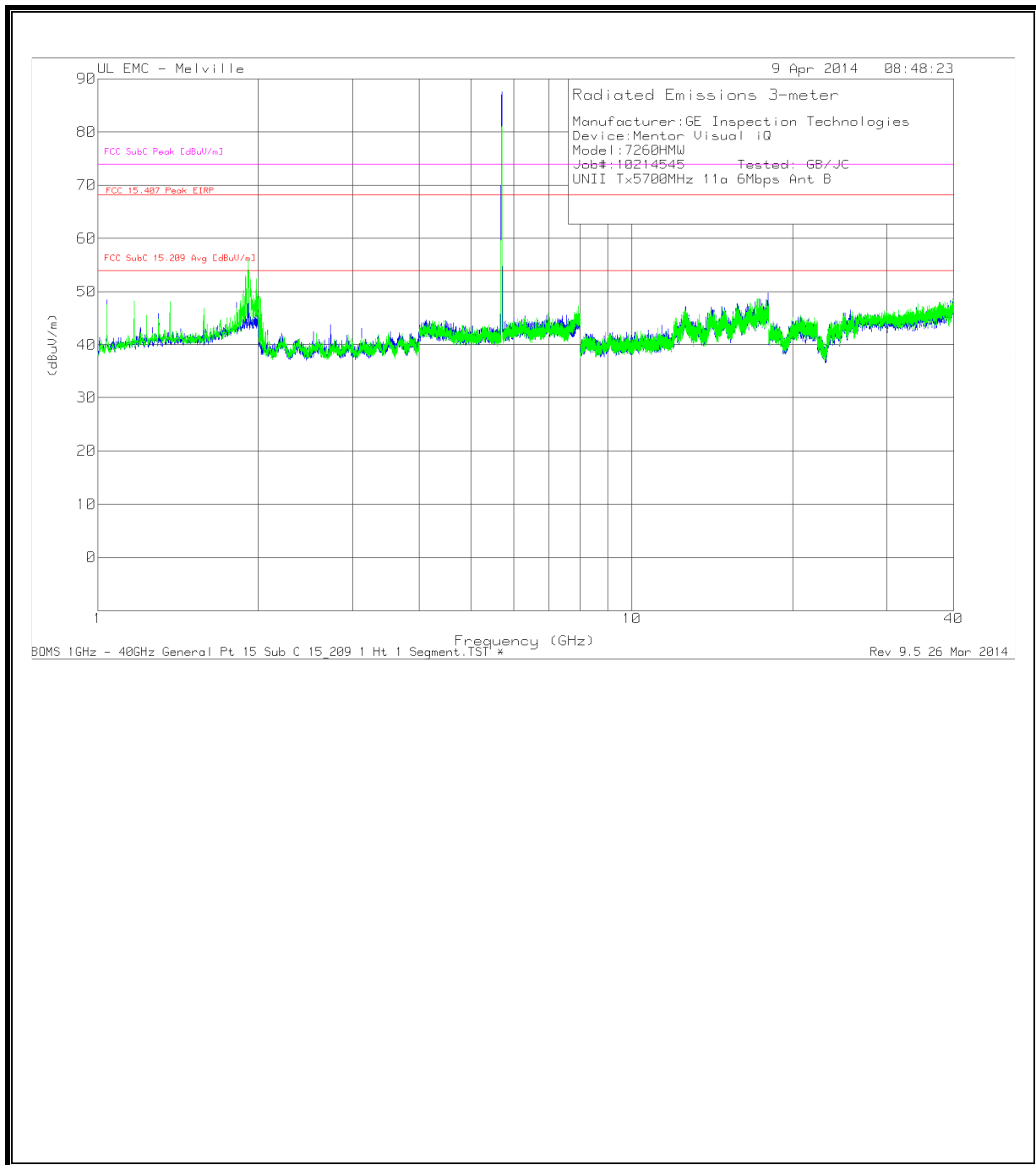
**DATA**

| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

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

**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL CHAIN B**



# DATA

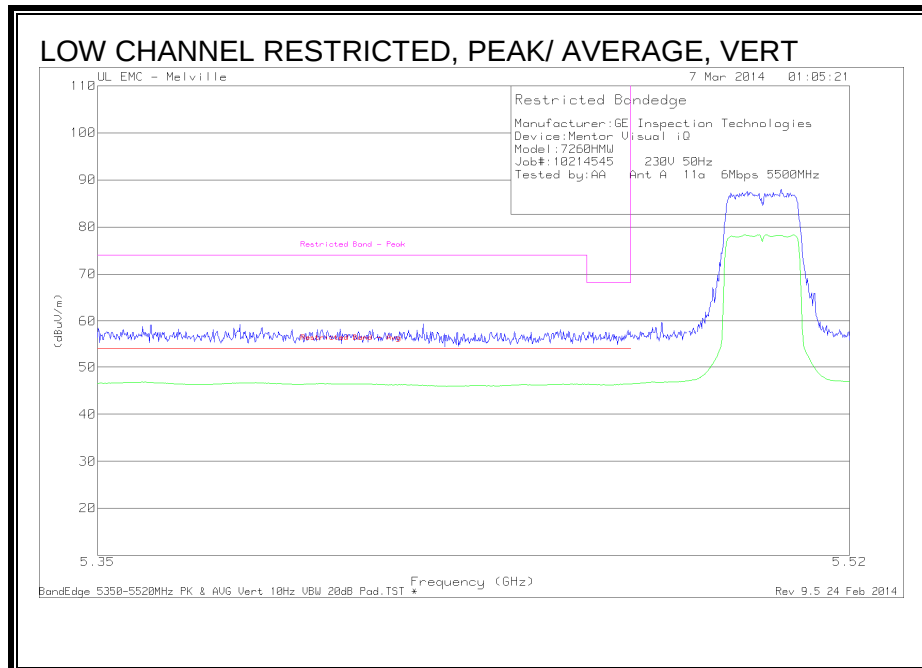
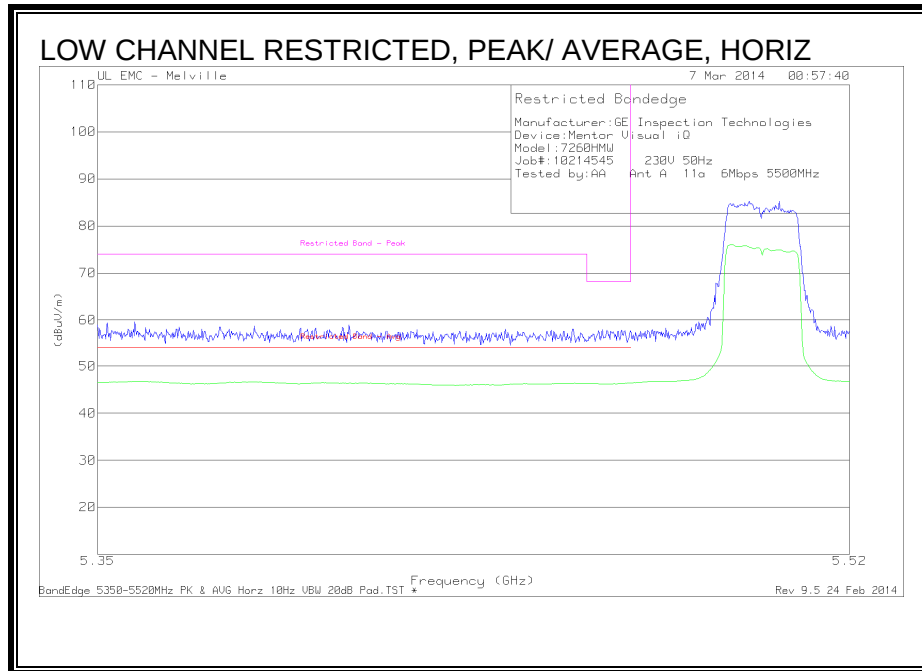
| Frequency (GHz) | Meter Reading (dBuV) | Det | AF-51442 [dB/m] | Gain/Loss (dB) | Corrected Reading (dBuV/m) | FCC SubC 15.209 Avg [dBuV/m] | Margin (dB) | FCC SubC Peak [dBuV/m] | PK Margin (dB) | FCC 15.407 Peak EIRP | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|-----------------|----------------|----------------------------|------------------------------|-------------|------------------------|----------------|----------------------|----------------|----------------|-------------|----------|
| * 1.04          | 60.48                | AD1 | 19.6            | -44.23         | 35.85                      | 54                           | -18.15      | -                      | -              | -                    | -              | 311            | 231         | V        |
| * 1.04          | 60.08                | AD1 | 19.6            | -44.22         | 35.46                      | 54                           | -18.54      | -                      | -              | -                    | -              | 4              | 110         | H        |
| * 1.17          | 60.43                | AD1 | 19.9            | -44.18         | 36.15                      | 54                           | -17.85      | -                      | -              | -                    | -              | 309            | 192         | H        |
| * 1.17          | 68.5                 | AD1 | 19.9            | -44.18         | 44.22                      | 54                           | -9.78       | -                      | -              | -                    | -              | 44             | 284         | V        |
| * 1.235         | 59.95                | AD1 | 20              | -44.13         | 35.82                      | 54                           | -18.18      | -                      | -              | -                    | -              | 344            | 324         | V        |
| * 1.235         | 58.42                | AD1 | 20              | -44.13         | 34.29                      | 54                           | -19.71      | -                      | -              | -                    | -              | 81             | 348         | H        |
| * 1.365         | 64.31                | AD1 | 20.6            | -43.84         | 41.07                      | 54                           | -12.93      | -                      | -              | -                    | -              | 34             | 152         | V        |
| * 1.365         | 62.14                | AD1 | 20.6            | -43.85         | 38.89                      | 54                           | -15.11      | -                      | -              | -                    | -              | 303            | 106         | H        |
| * 1.04          | 73.88                | PK1 | 19.6            | -44.22         | 49.26                      | -                            | -           | 74                     | -24.74         | -                    | -              | 311            | 231         | V        |
| * 1.04          | 74.52                | PK1 | 19.6            | -44.22         | 49.9                       | -                            | -           | 74                     | -24.1          | -                    | -              | 4              | 110         | H        |
| * 1.17          | 74.37                | PK1 | 19.9            | -44.2          | 50.07                      | -                            | -           | 74                     | -23.93         | -                    | -              | 309            | 192         | H        |
| * 1.17          | 78.79                | PK1 | 19.9            | -44.18         | 54.51                      | -                            | -           | 74                     | -19.49         | -                    | -              | 44             | 284         | V        |
| * 1.235         | 70.64                | PK1 | 20              | -44.13         | 46.51                      | -                            | -           | 74                     | -27.49         | -                    | -              | 344            | 324         | V        |
| * 1.235         | 71.22                | PK1 | 20              | -44.13         | 47.09                      | -                            | -           | 74                     | -26.91         | -                    | -              | 81             | 348         | H        |
| * 1.365         | 70.99                | PK1 | 20.6            | -43.87         | 47.72                      | -                            | -           | 74                     | -26.28         | -                    | -              | 34             | 152         | V        |
| * 1.365         | 70.44                | PK1 | 20.6            | -43.86         | 47.18                      | -                            | -           | 74                     | -26.82         | -                    | -              | 303            | 106         | H        |
| 1.917           | 82.77                | PK1 | 21.7            | -43.53         | 60.94                      | -                            | -           | -                      | -              | 68.2                 | -7.26          | 199            | 272         | V        |
| 1.973           | 79.17                | PK1 | 22              | -43.47         | 57.7                       | -                            | -           | -                      | -              | 68.2                 | -10.5          | 200            | 105         | V        |

Note: No spurious emissions observed beyond the fundamental frequency

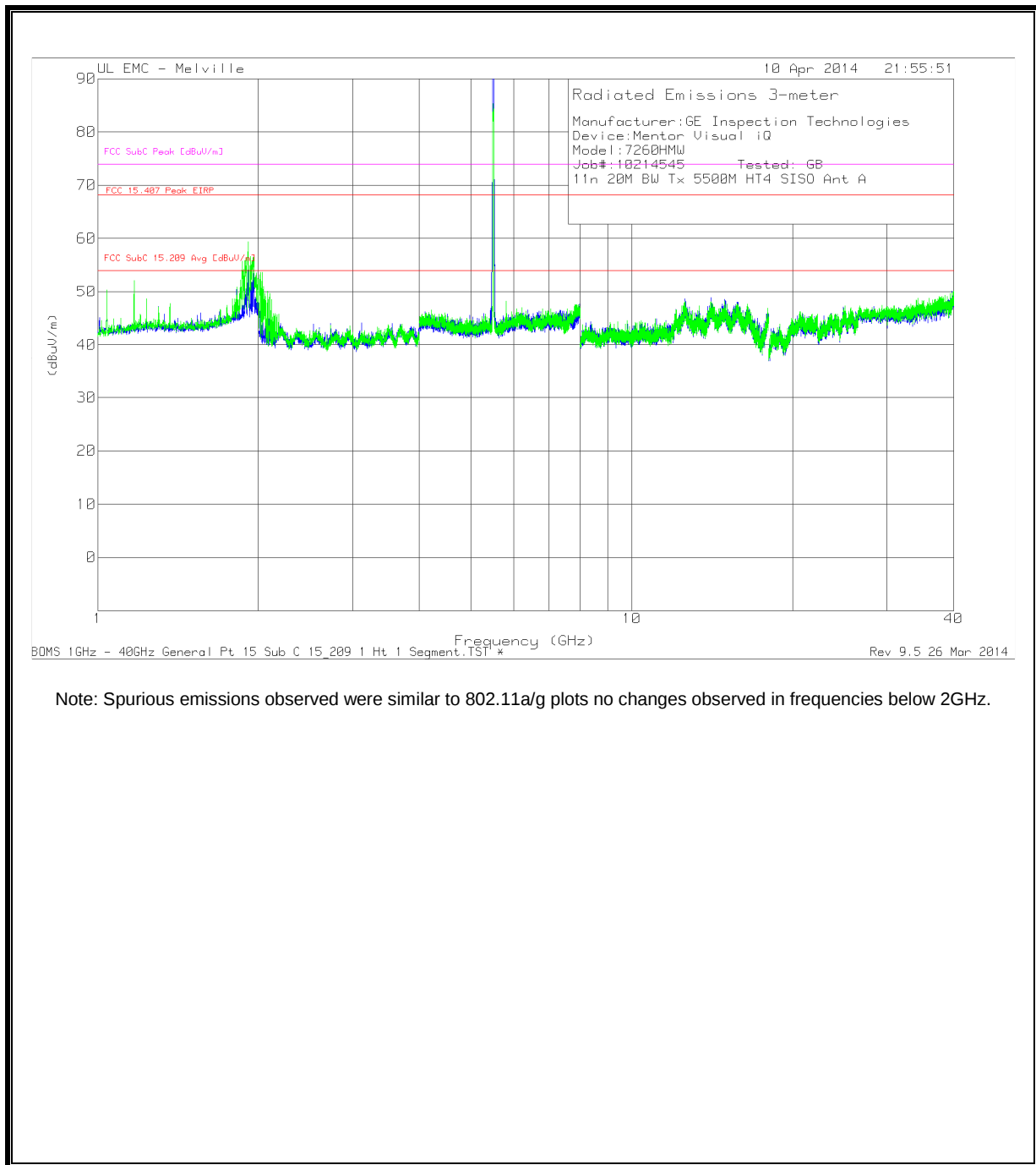
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band  
PK1 - KDB789033 Method: Peak  
AD1 - KDB789033 Method: AD Primary Power Average

## 8.11. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.6 GHz BAND (SISO)

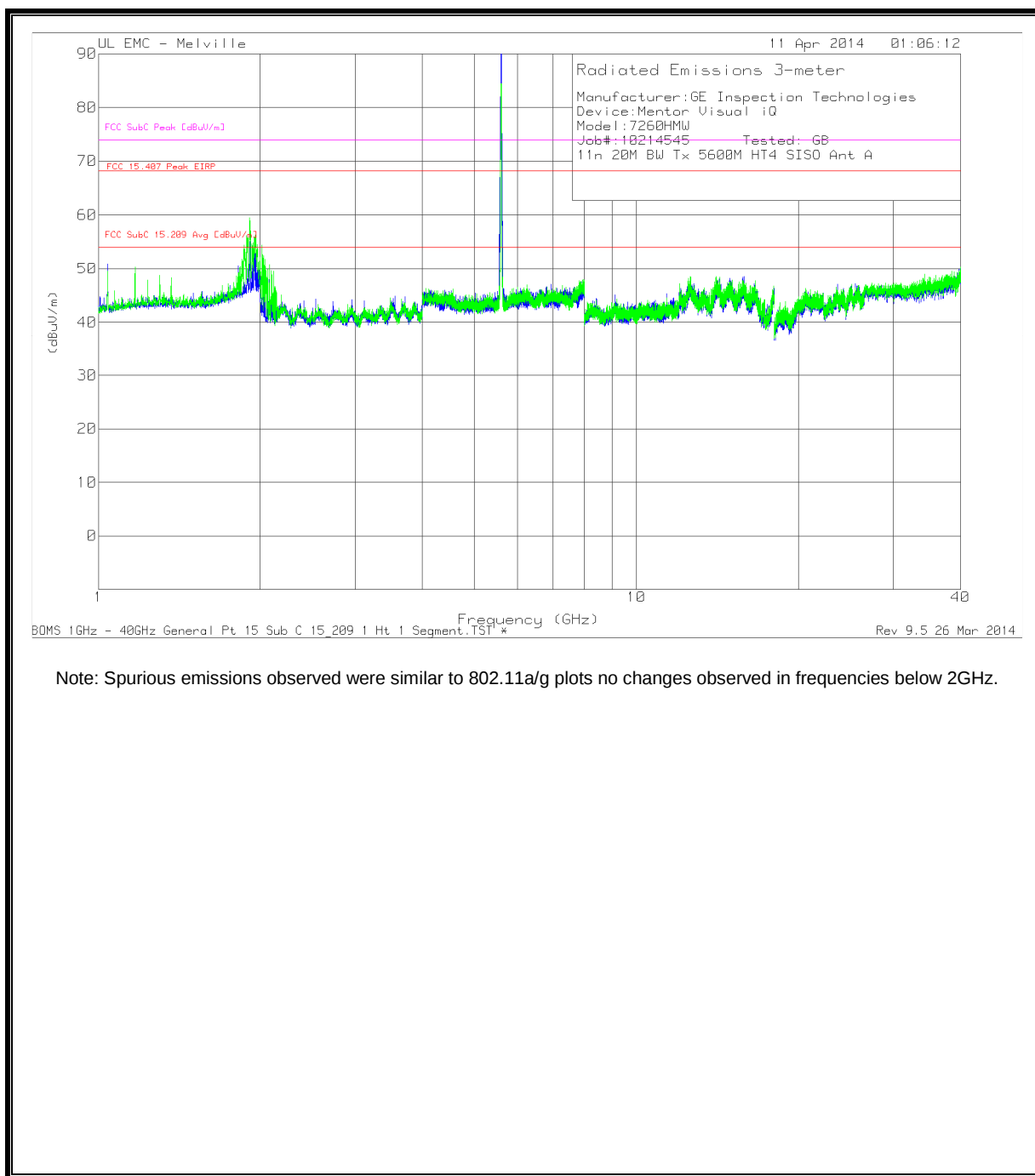
### 8.11.1. RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL CHAIN A)



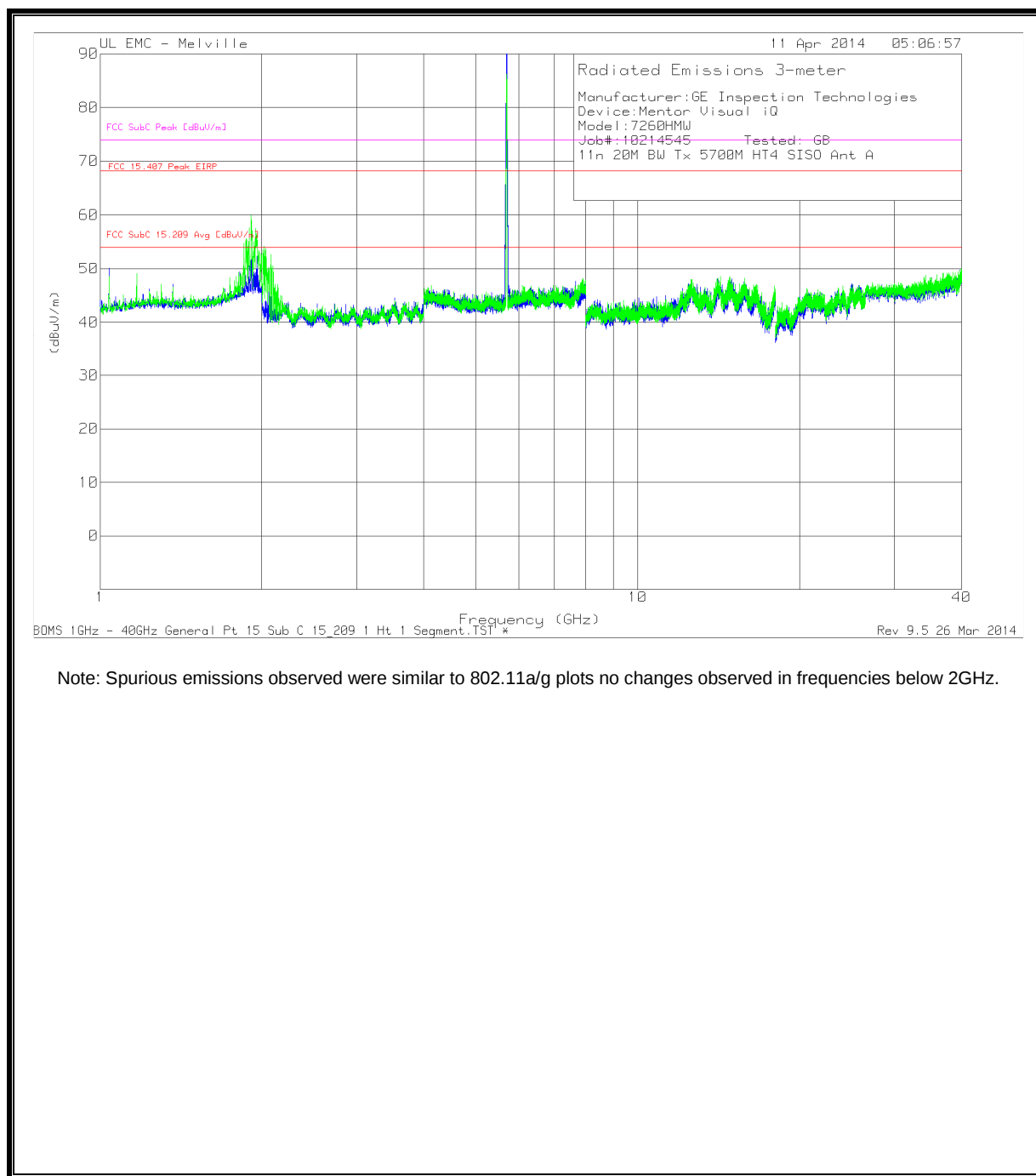
## HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL CHAIN A



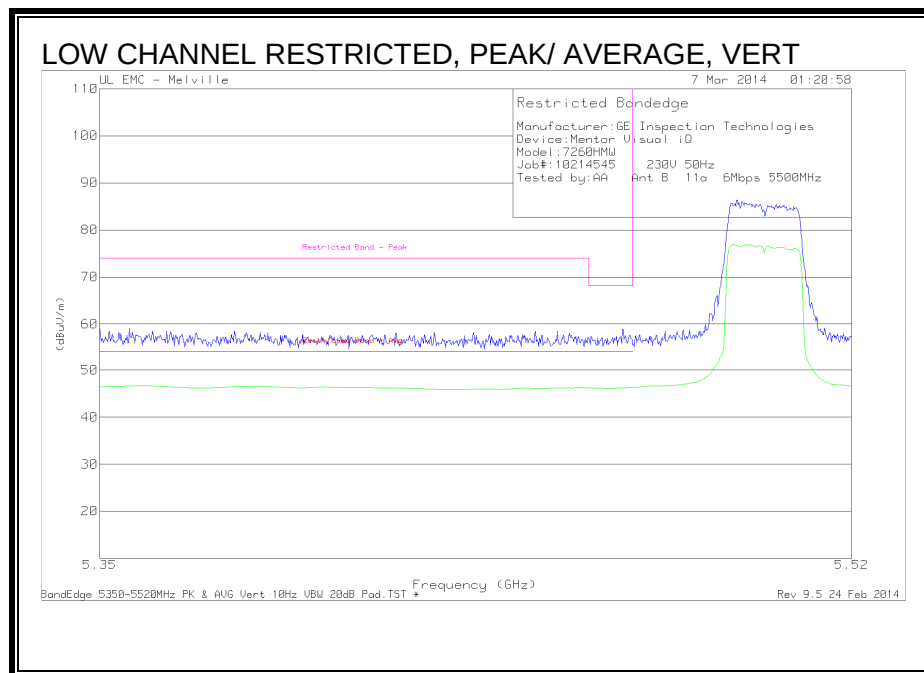
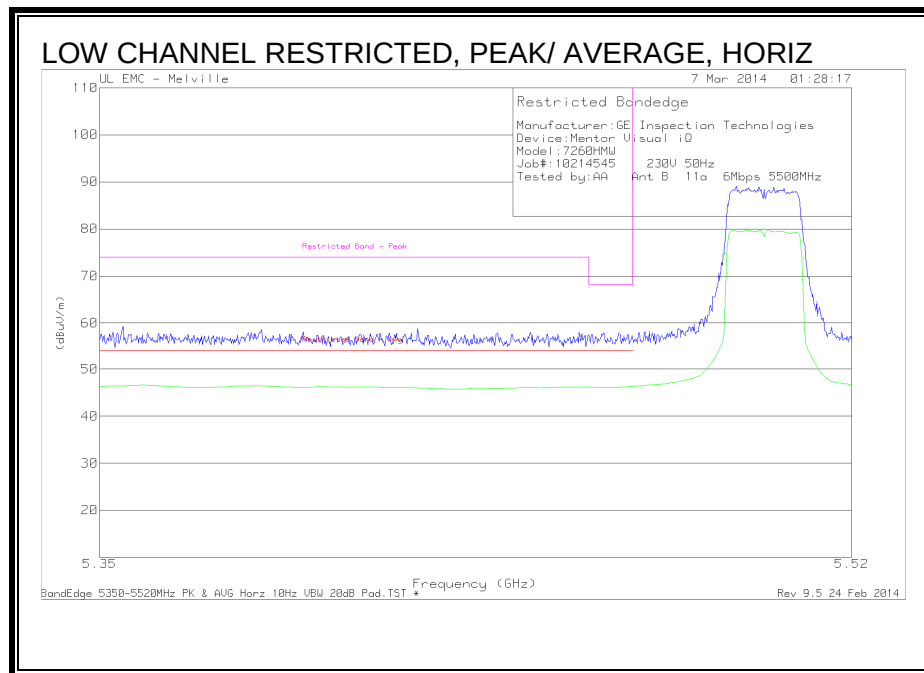
**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL CHAIN A**



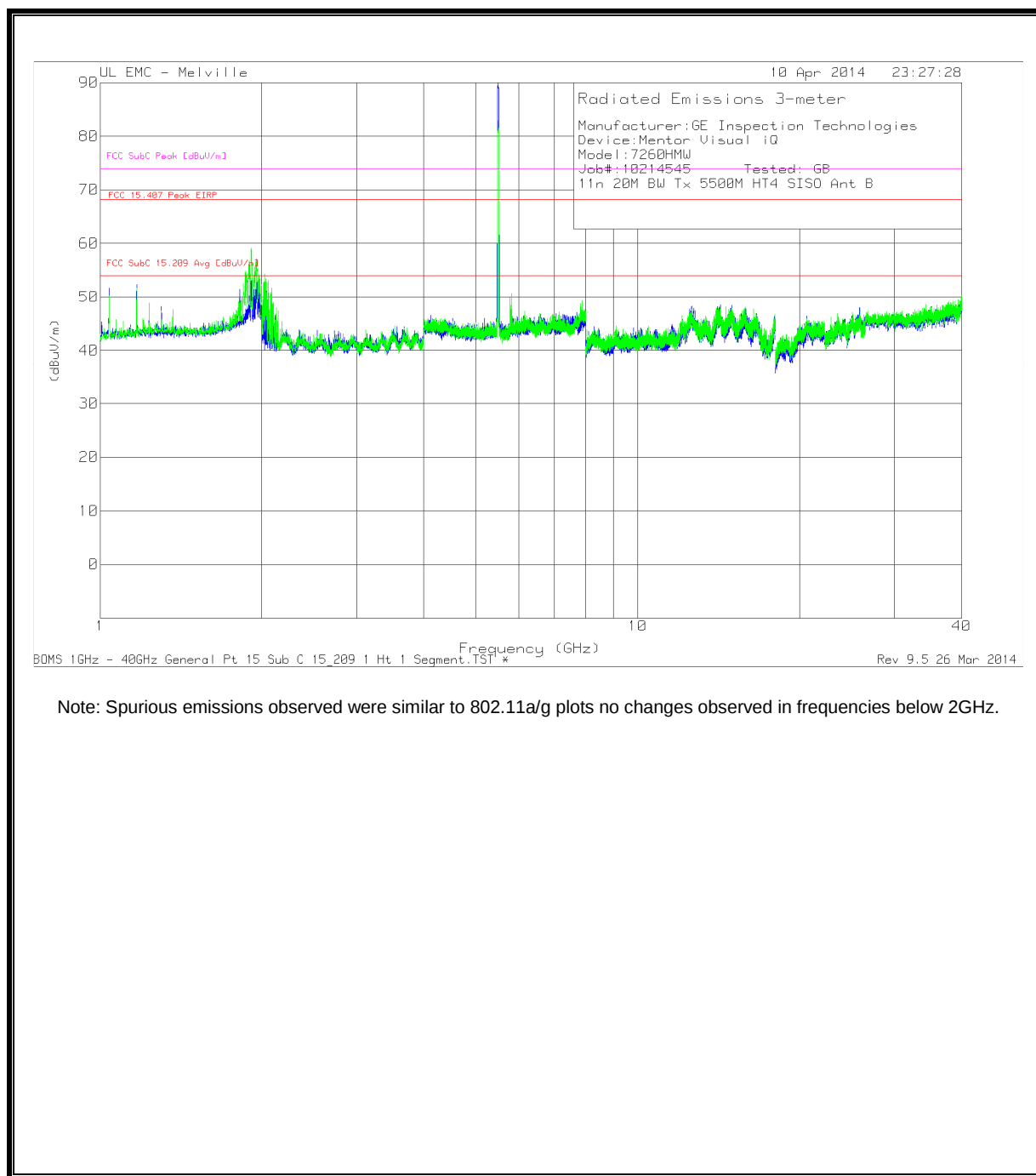
**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL CHAIN A**



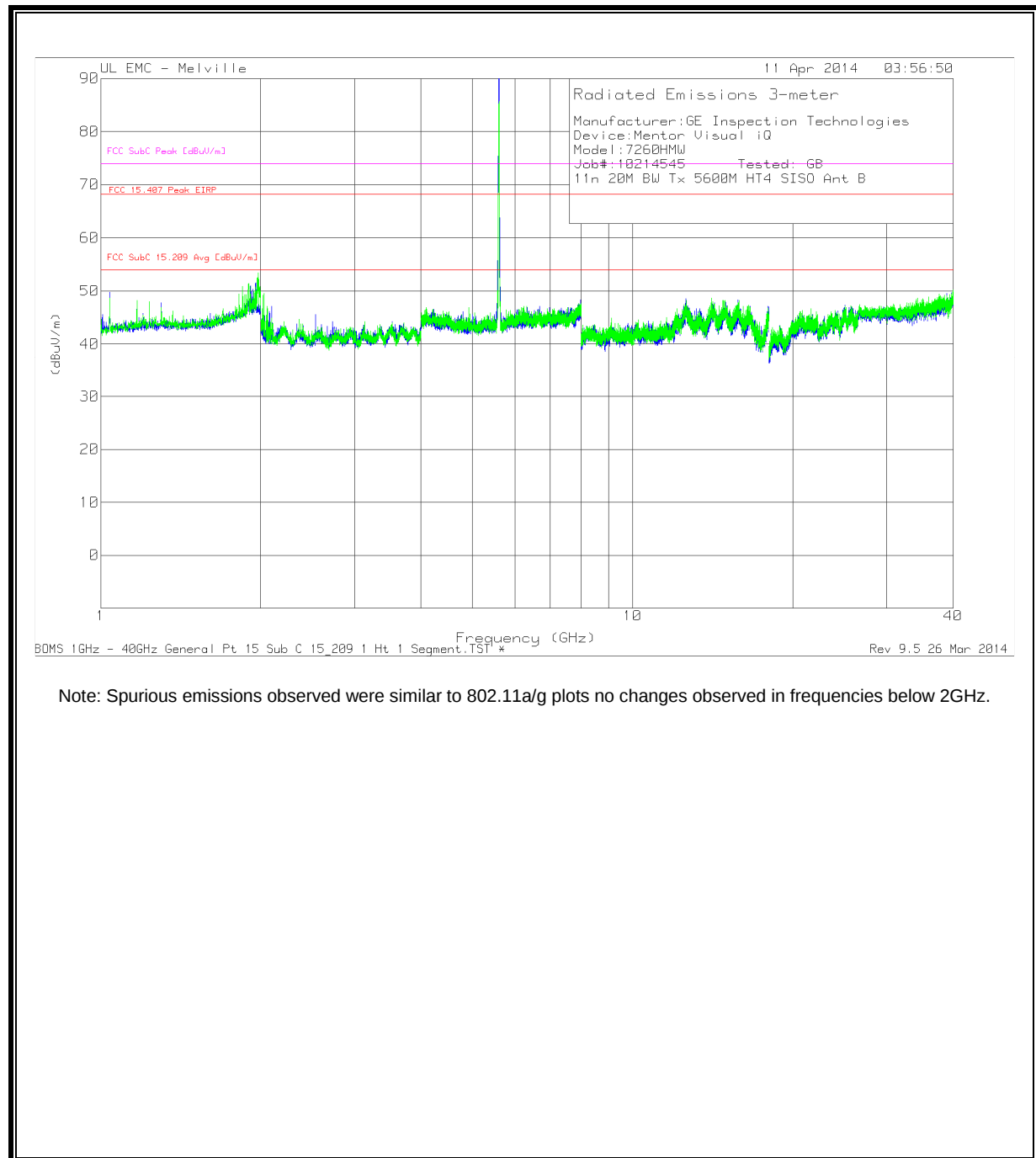
**RESTRICTED & AUTHORIZED BANDEGE (LOW CHANNEL CHAIN B)**



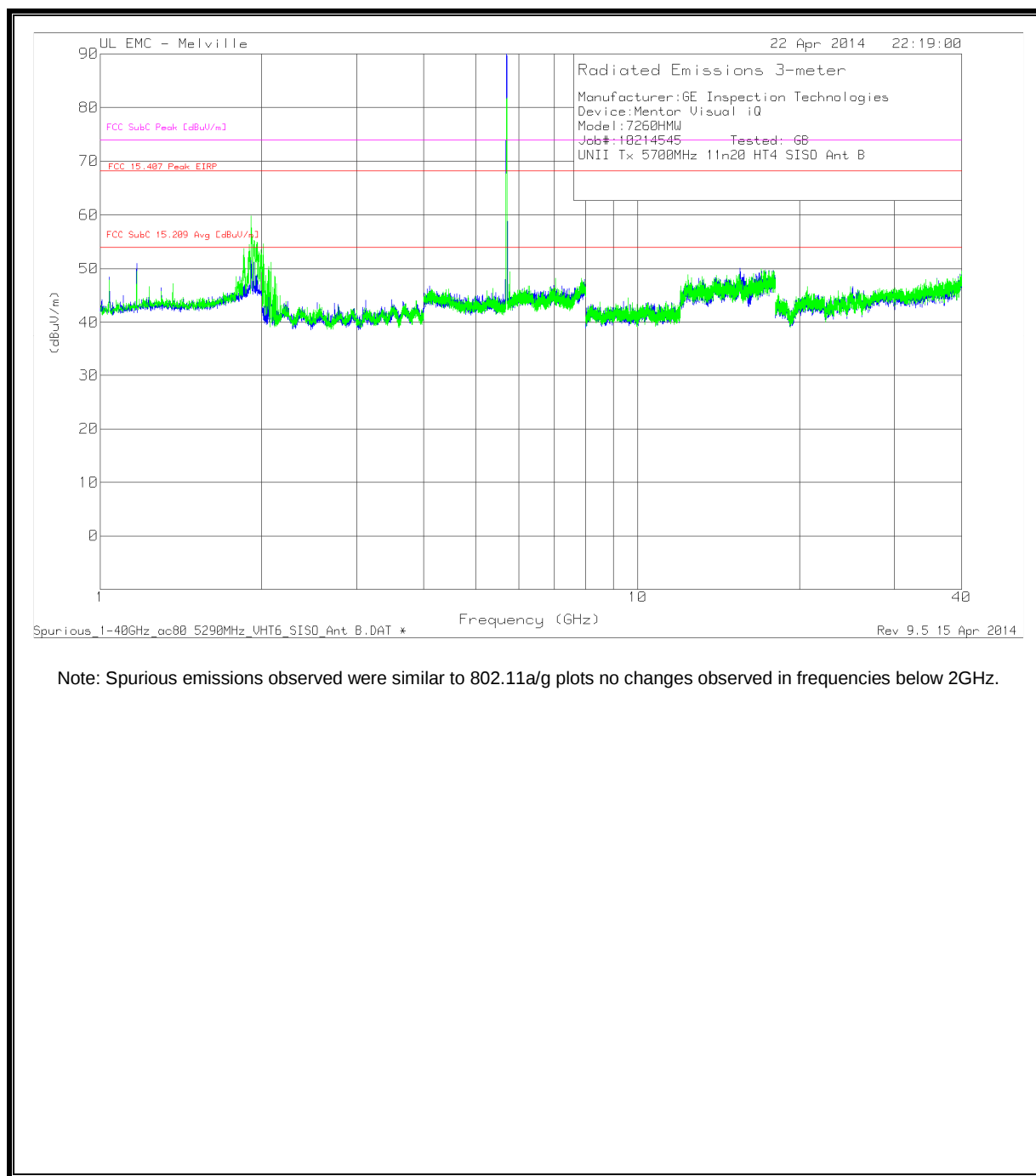
**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL CHAIN B**



**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL CHAIN B**



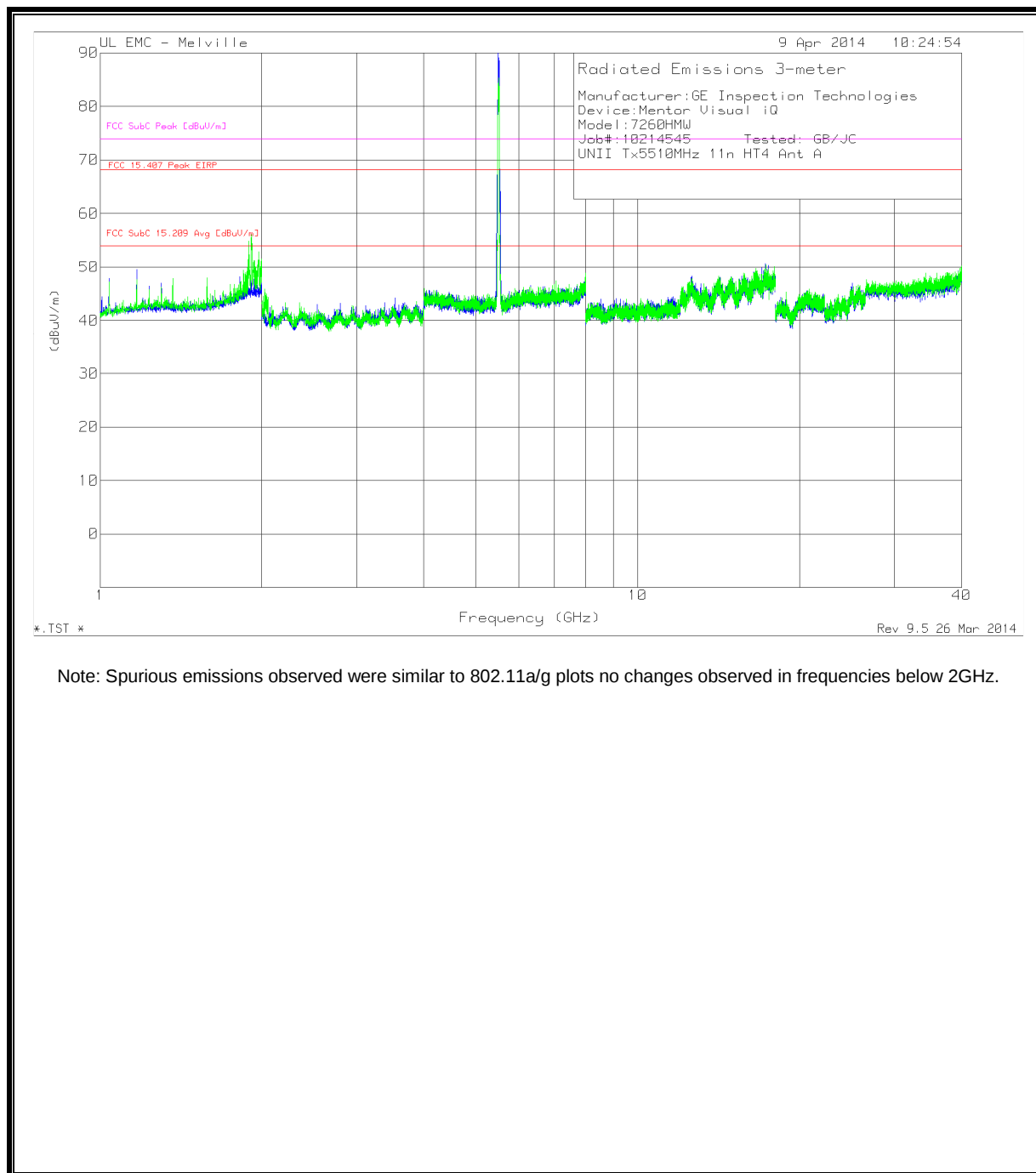
**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL CHAIN B**



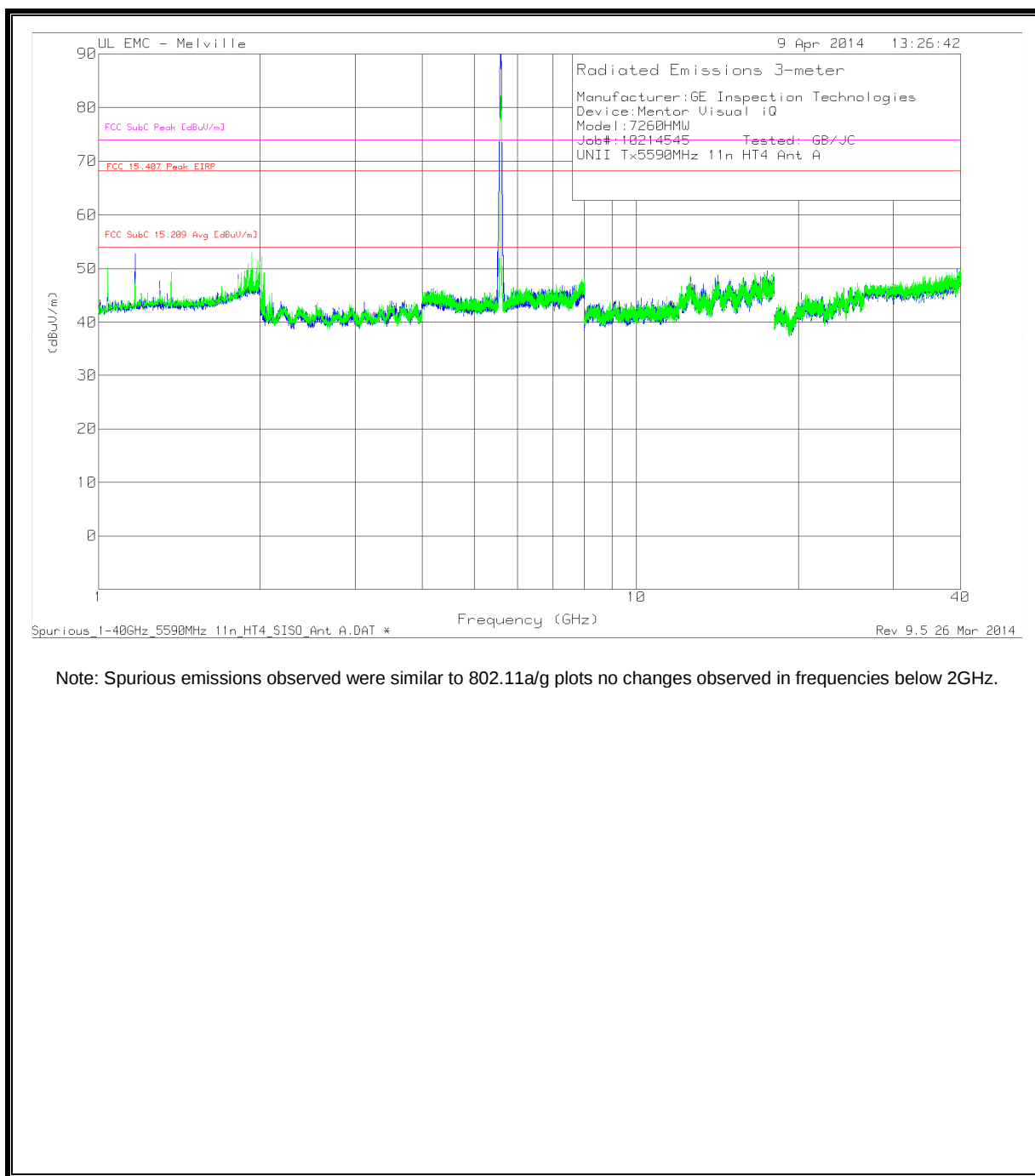
Note: Spurious emissions observed were similar to 802.11a/g plots no changes observed in frequencies below 2GHz.

## 8.12. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.6 GHz BAND (SISO)

### HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL CHAIN A

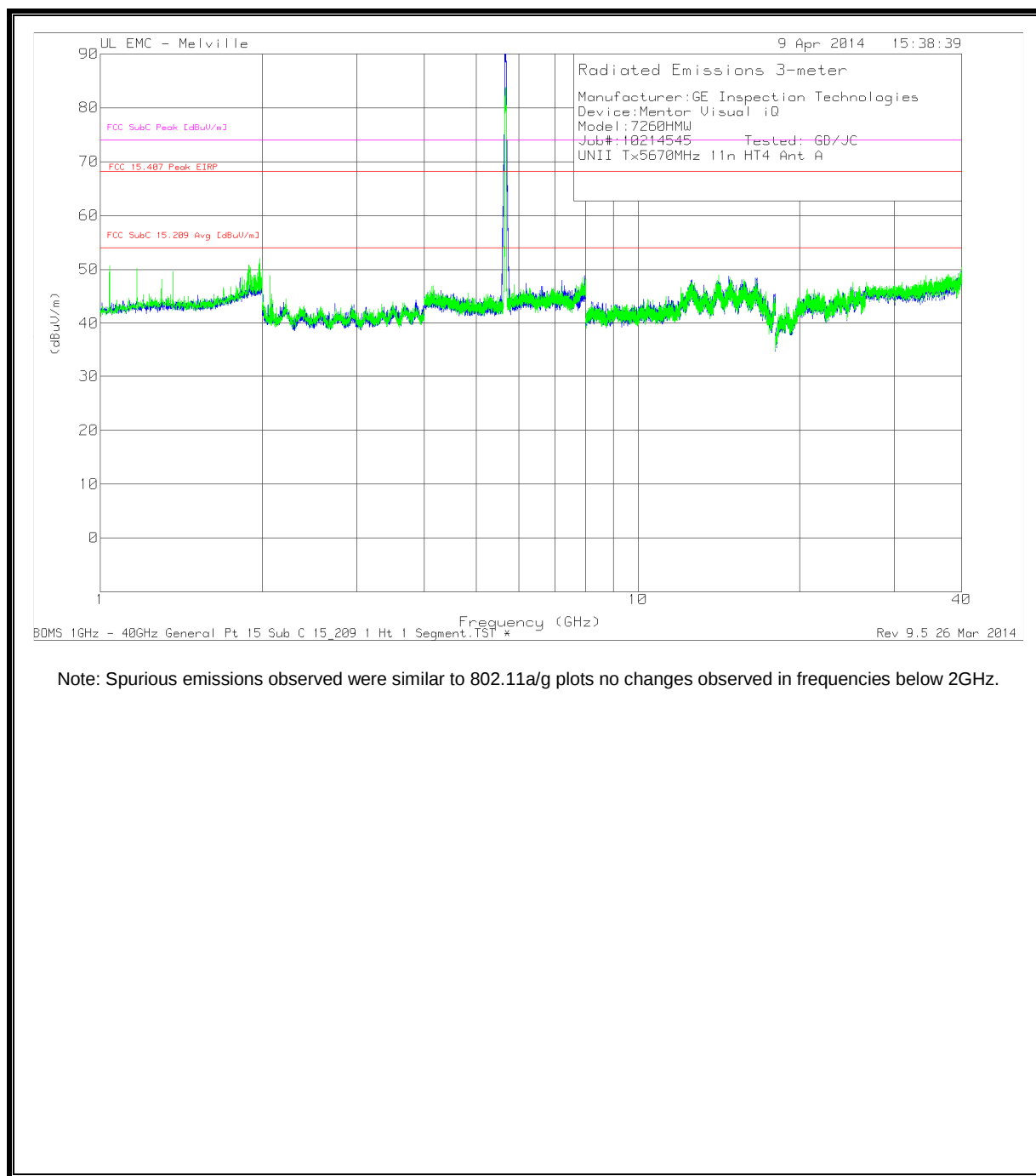


**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL CHAIN A**

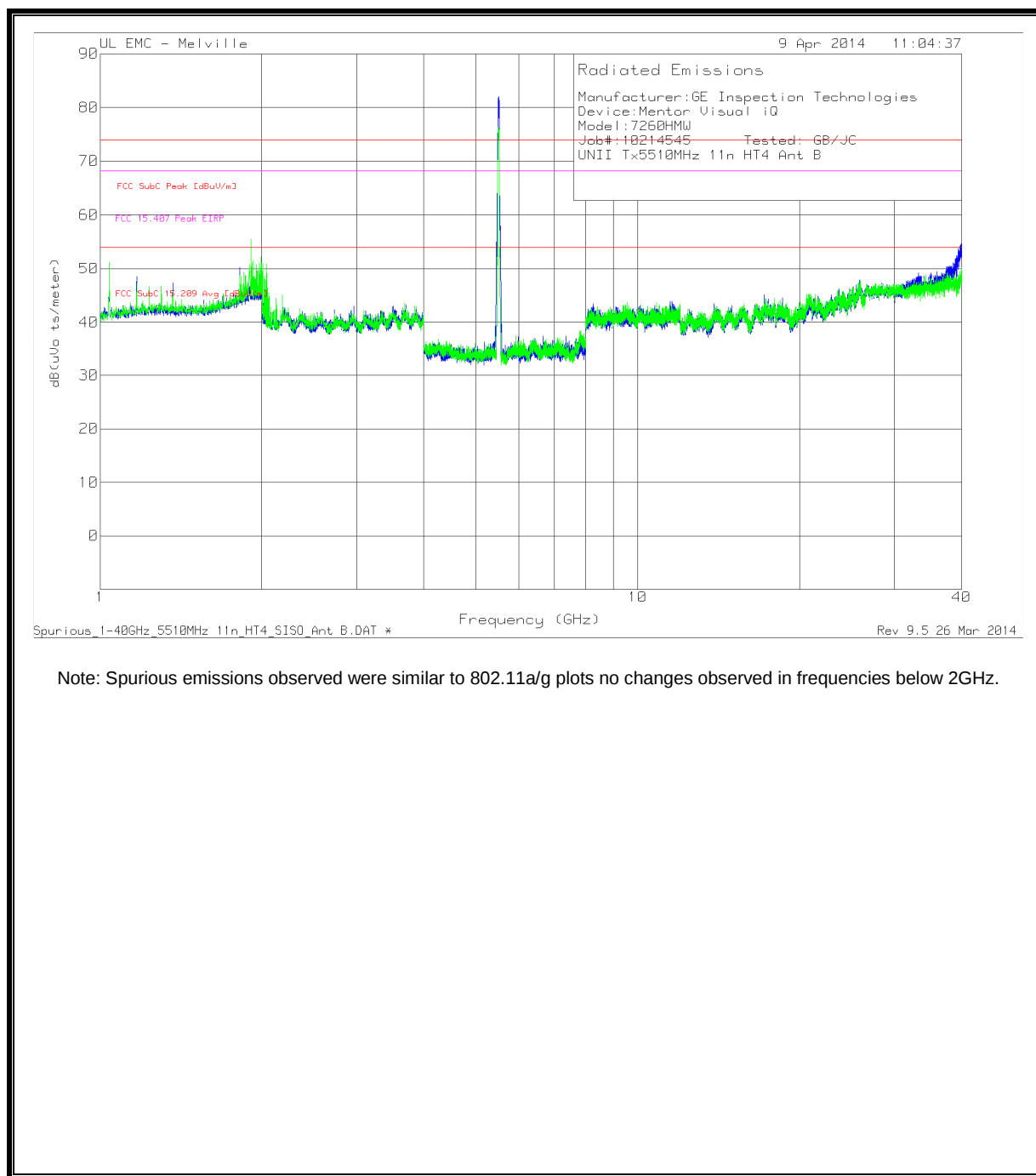


Note: Spurious emissions observed were similar to 802.11a/g plots no changes observed in frequencies below 2GHz.

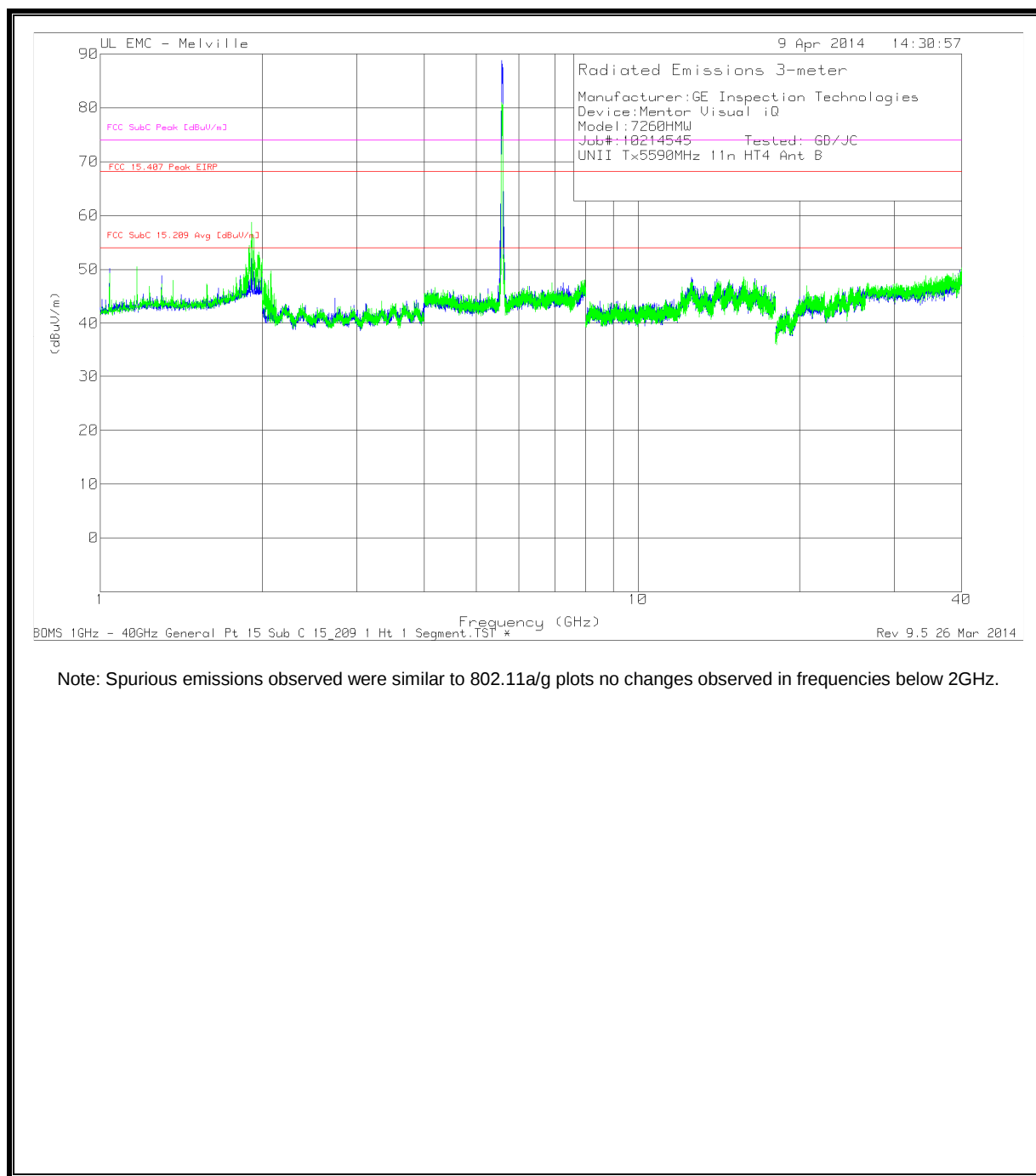
**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL CHAIN A**



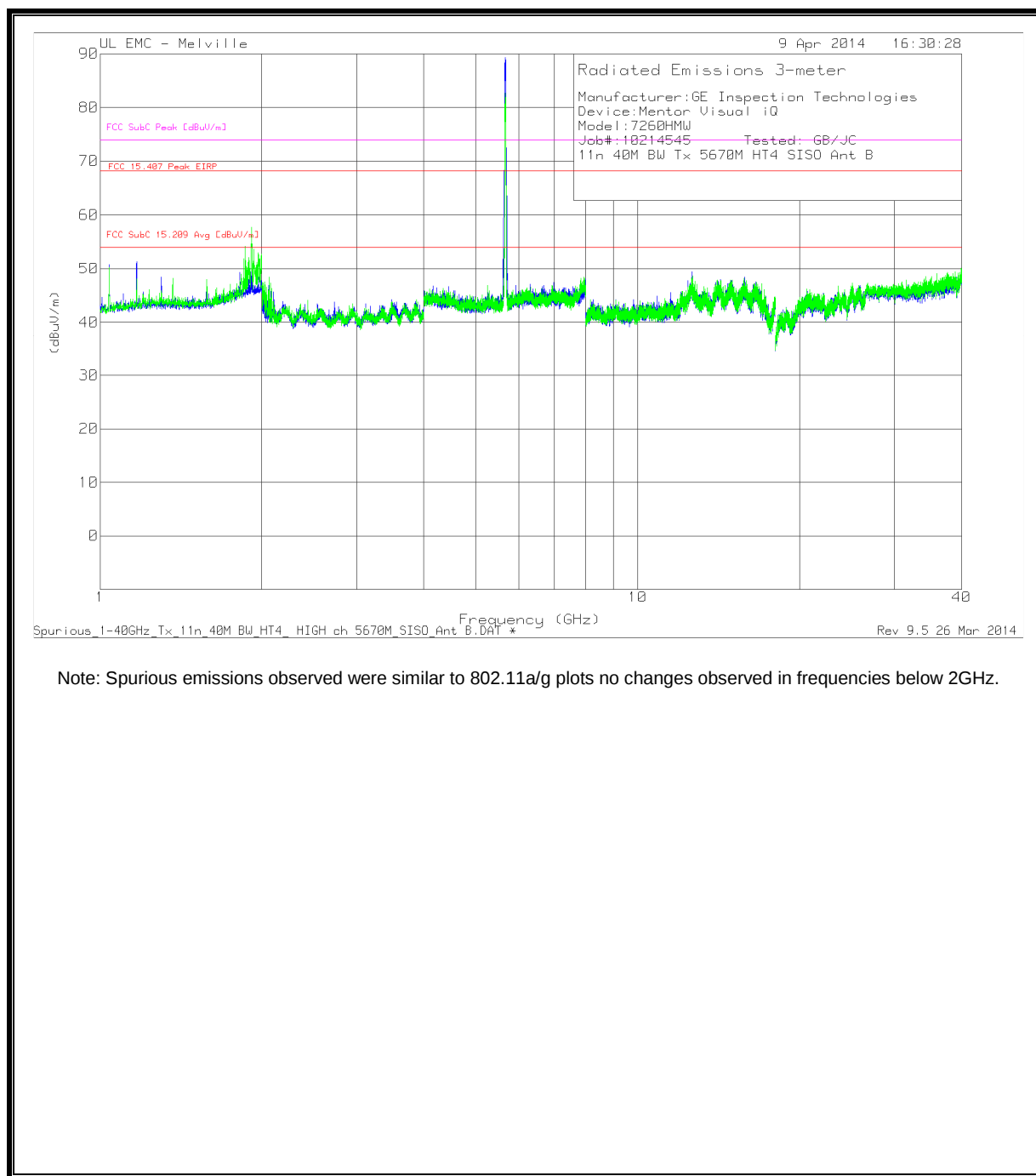
**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL CHAIN B**



**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL CHAIN B**



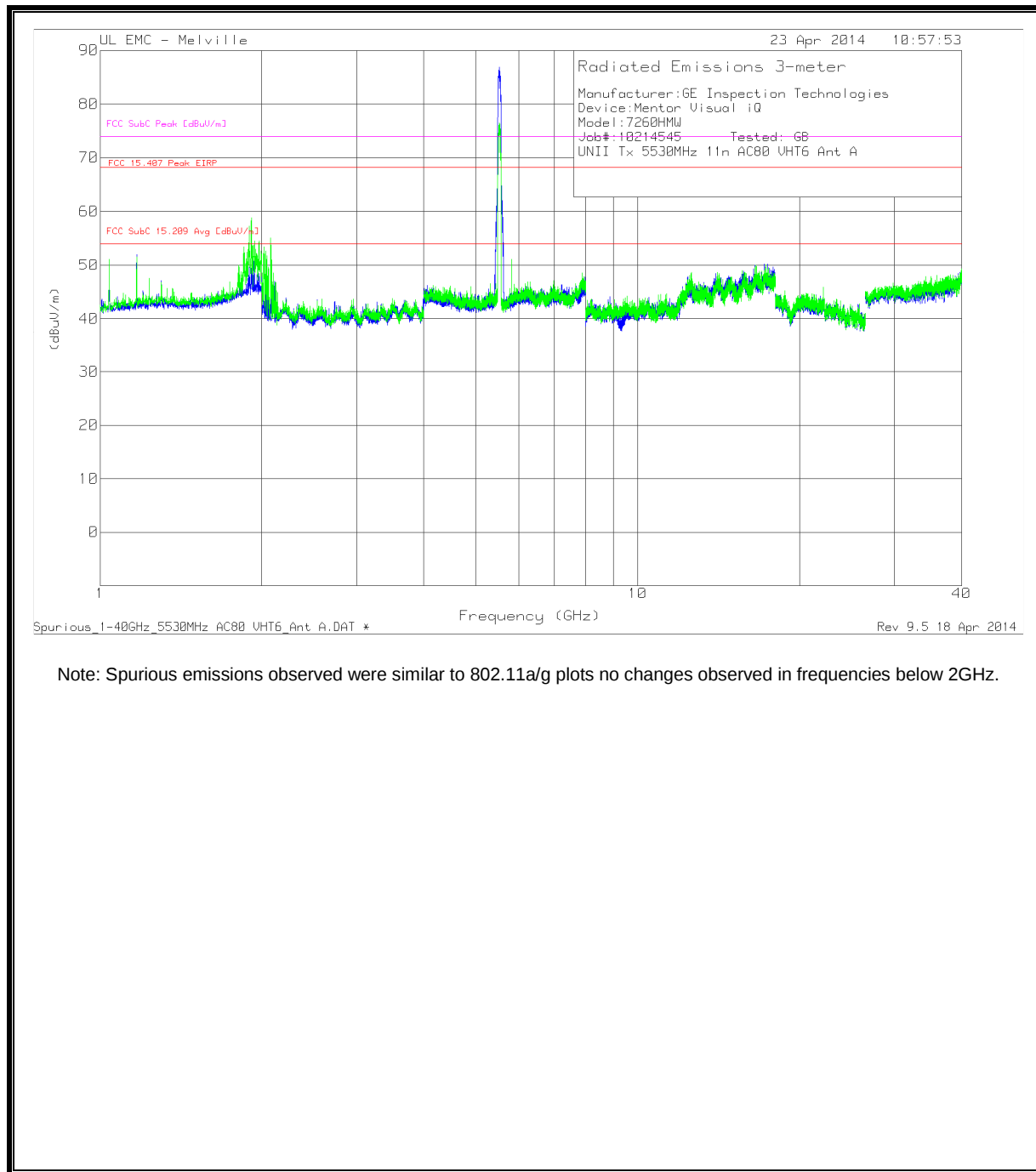
**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL CHAIN B**



Note: Spurious emissions observed were similar to 802.11a/g plots no changes observed in frequencies below 2GHz.

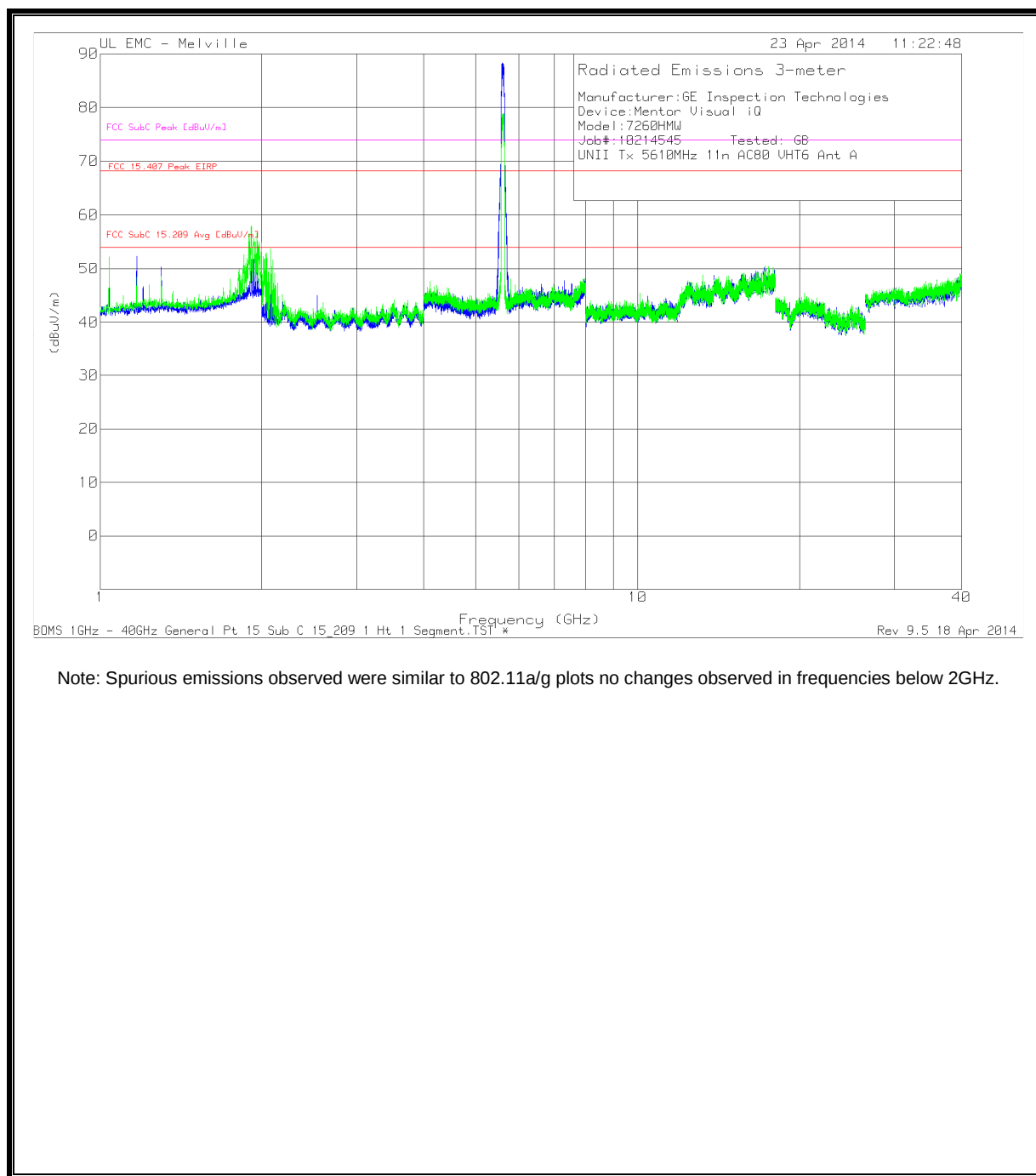
### 8.13. TX ABOVE 1 GHz 802.11ac 80 MODE IN THE 5.6 GHz BAND

#### HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL CHAIN A

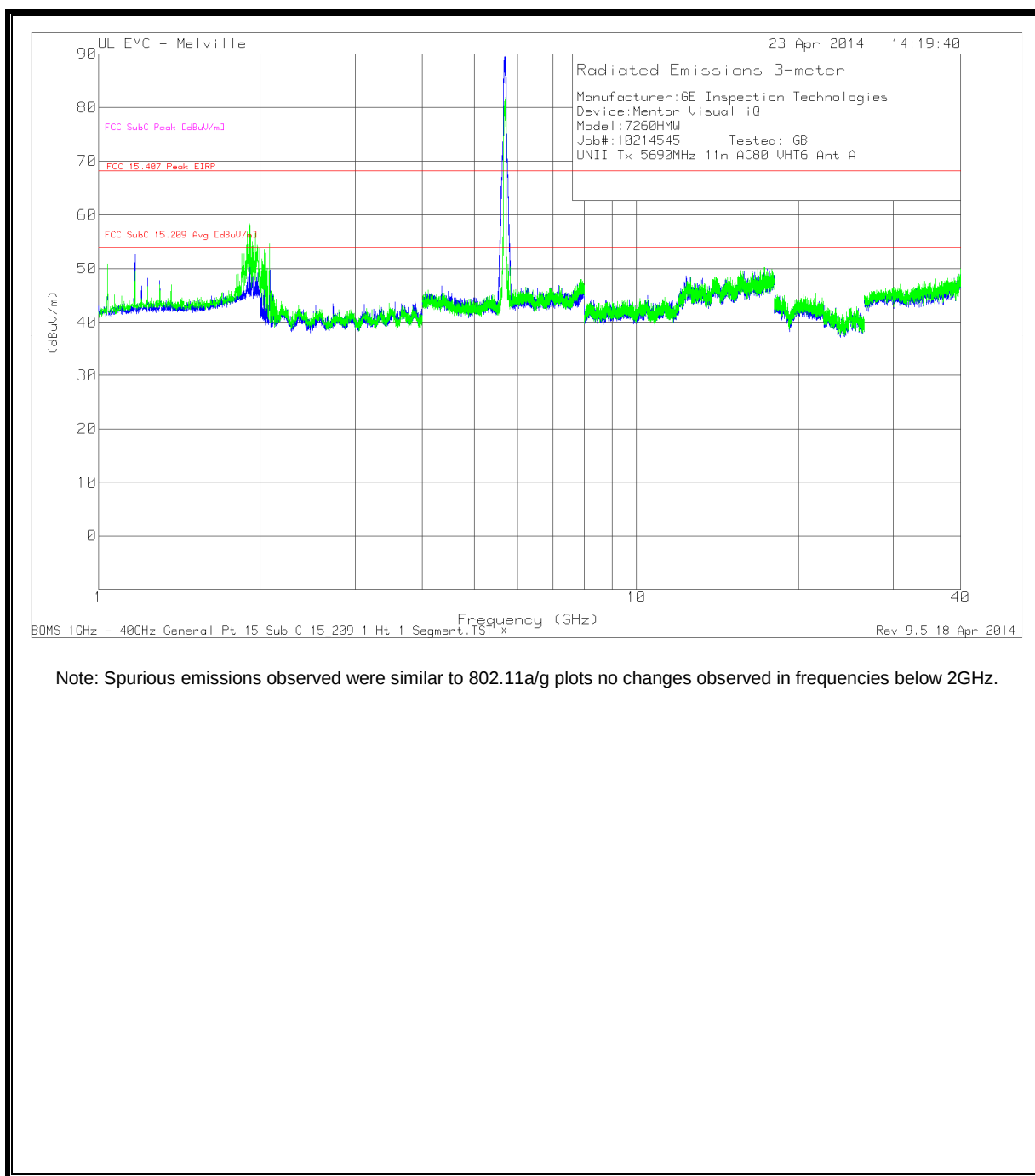


Note: Spurious emissions observed were similar to 802.11a/g plots no changes observed in frequencies below 2GHz.

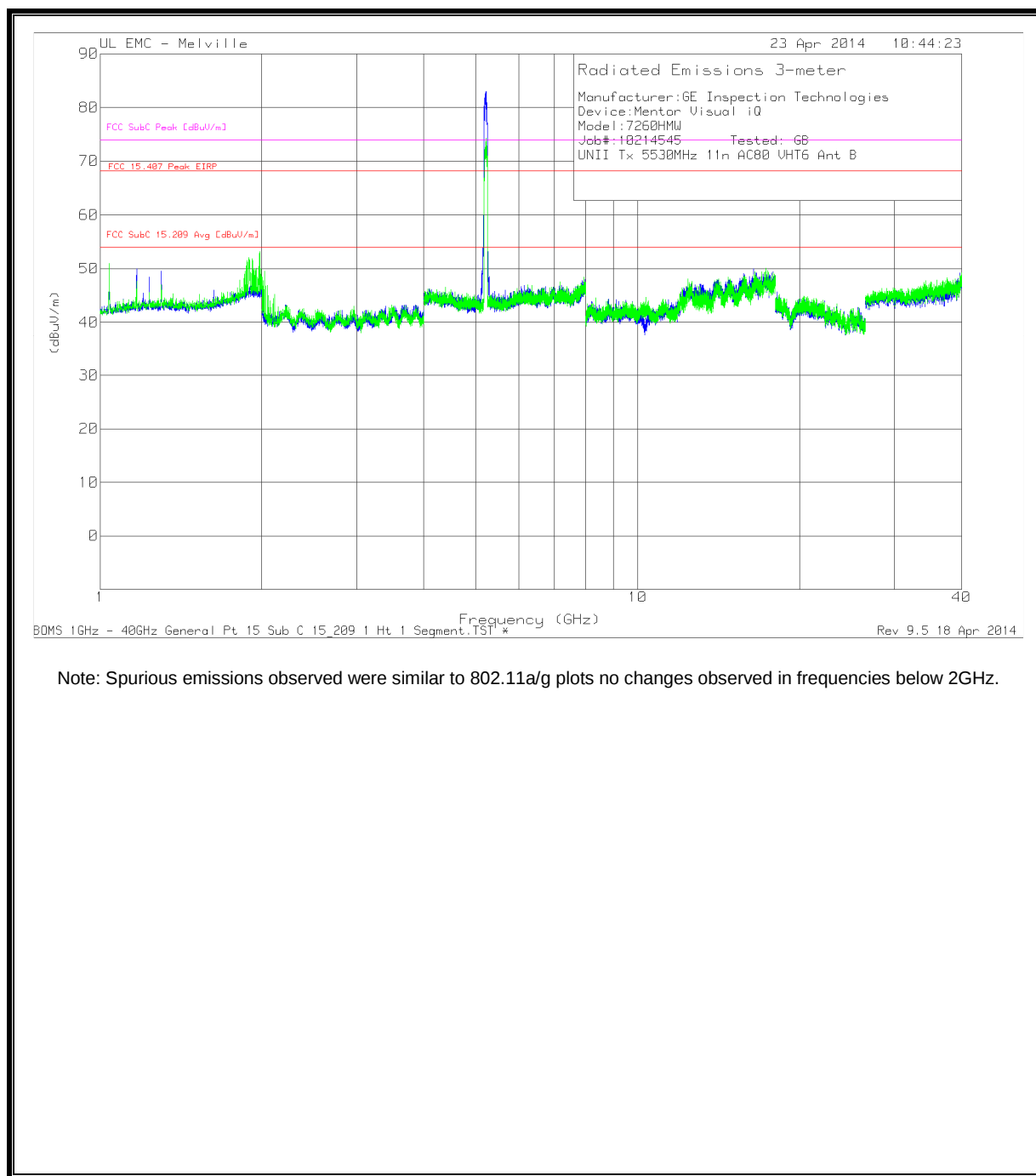
**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL CHAIN A**



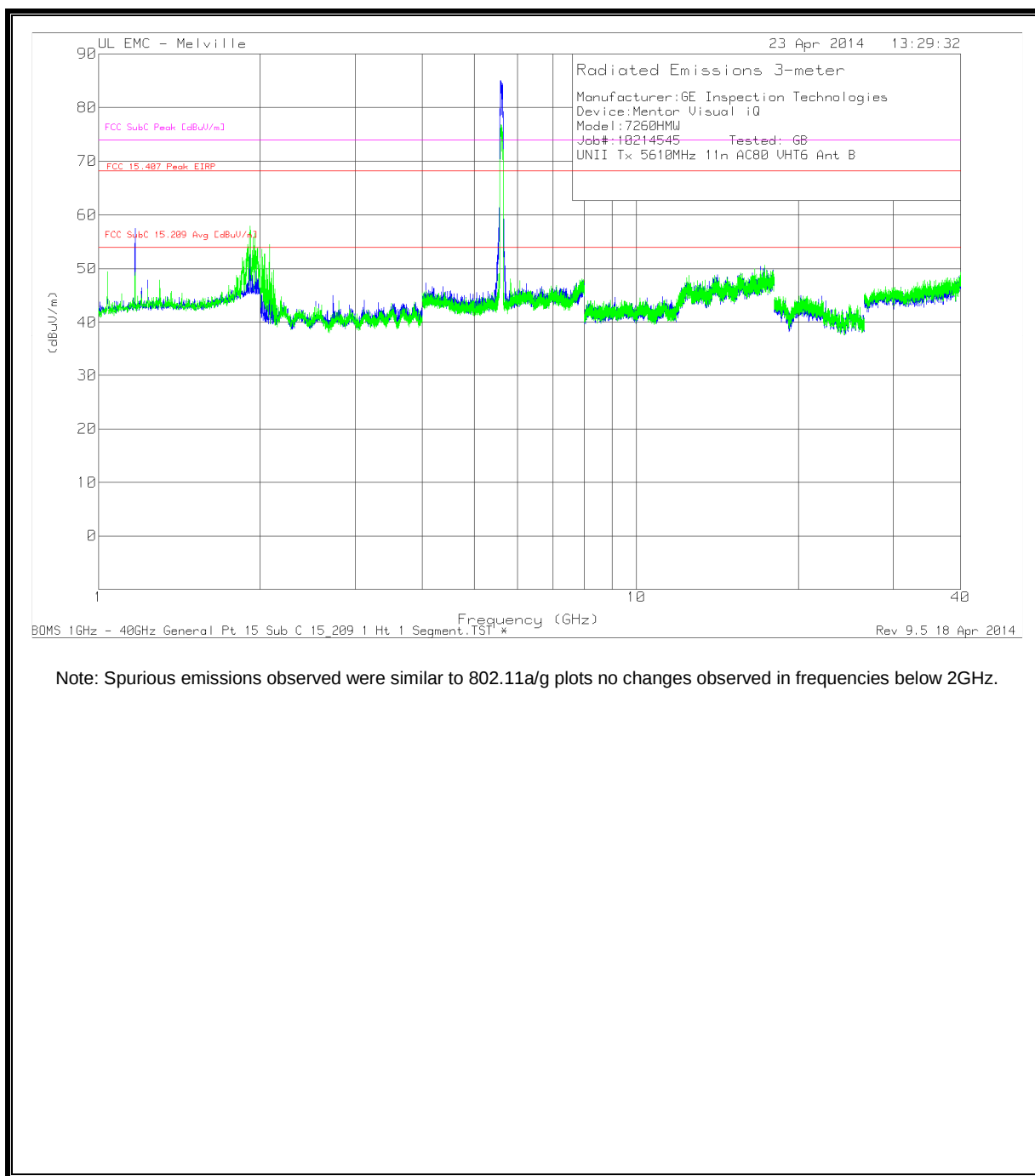
**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL CHAIN A**



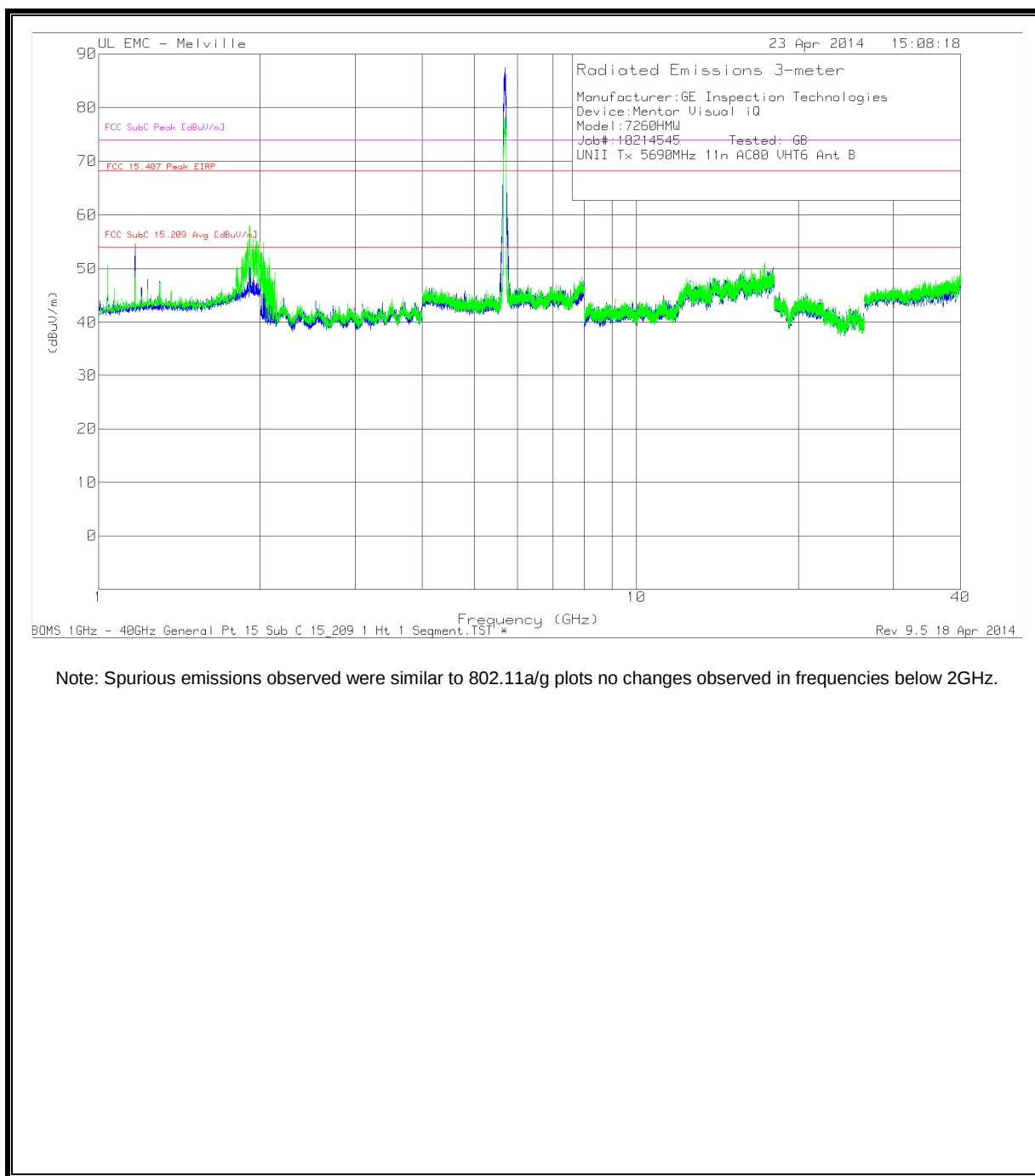
**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL CHAIN B**



**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL CHAIN B**

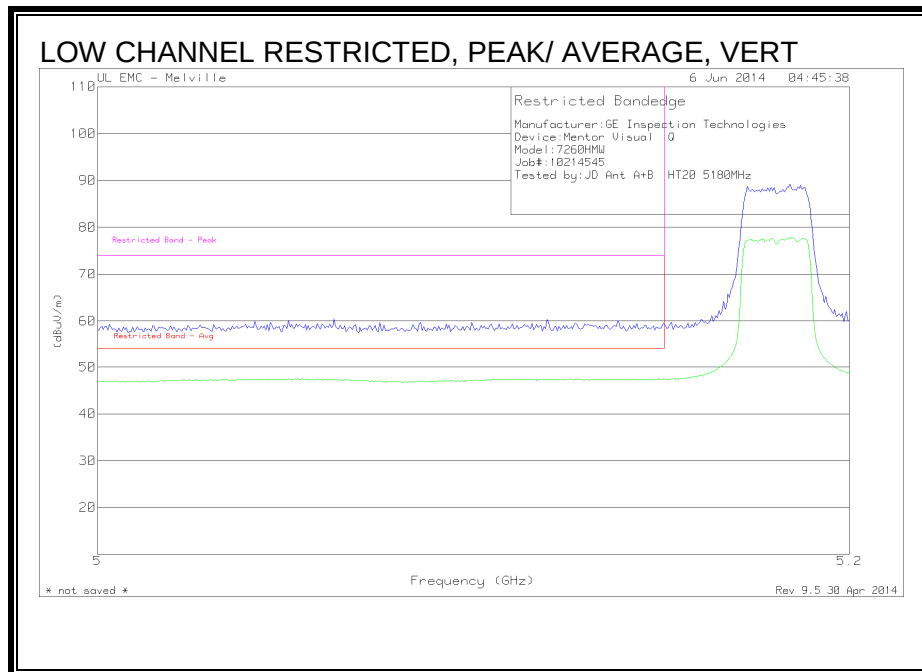
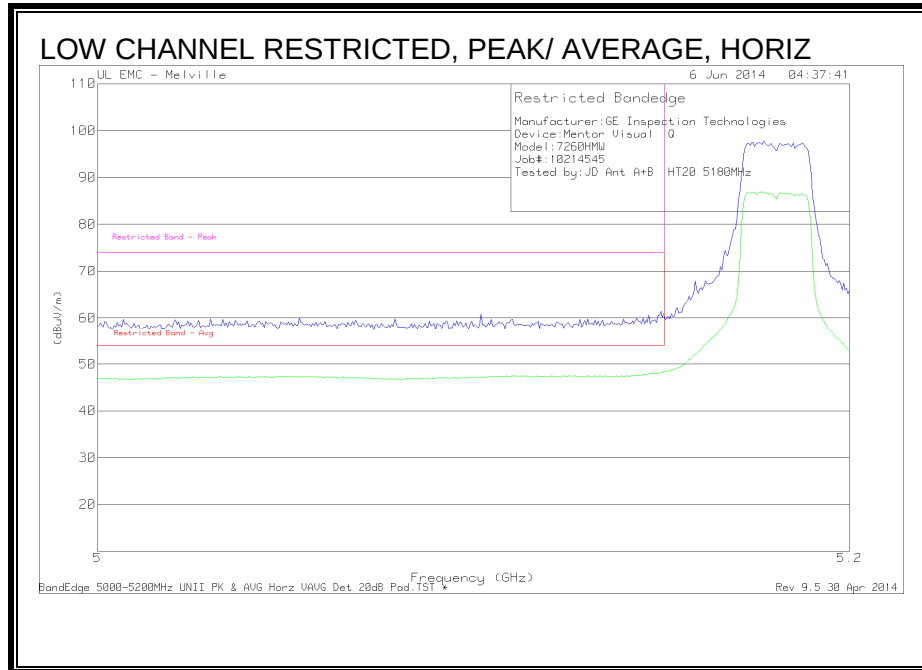


**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL CHAIN B**

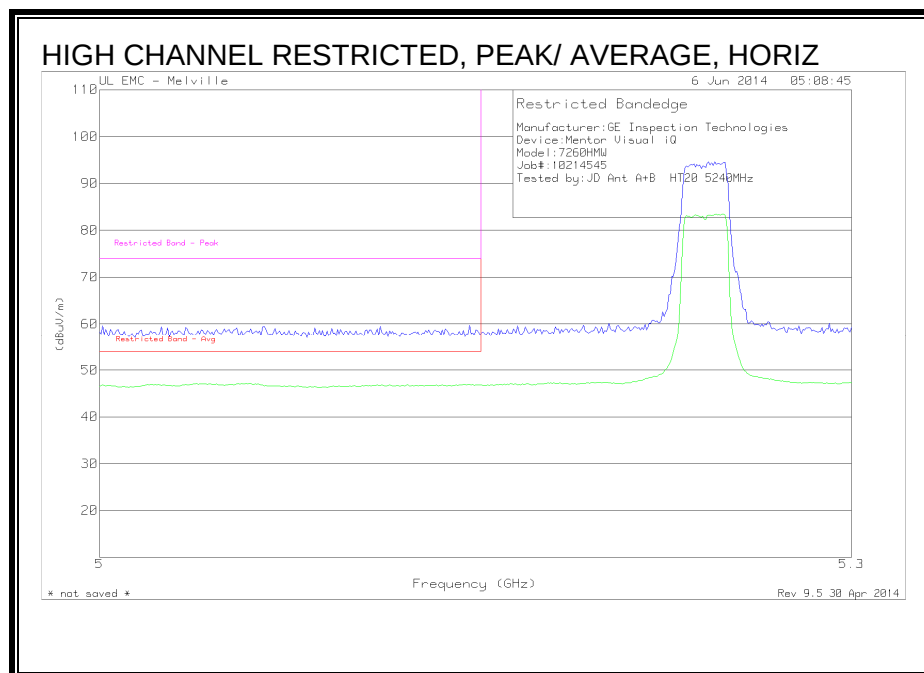
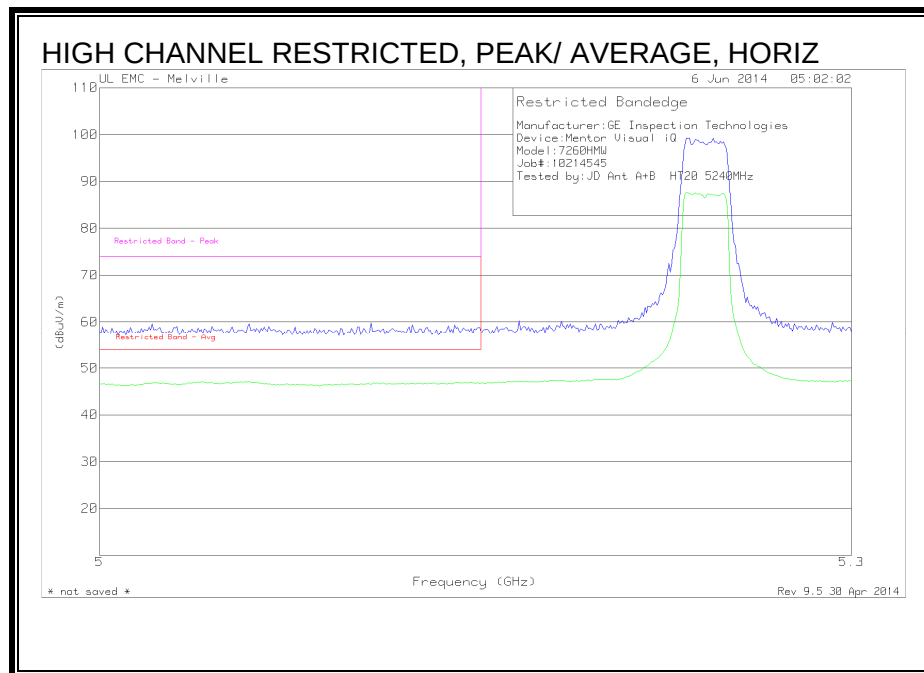


## 8.14. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND (MIMO)

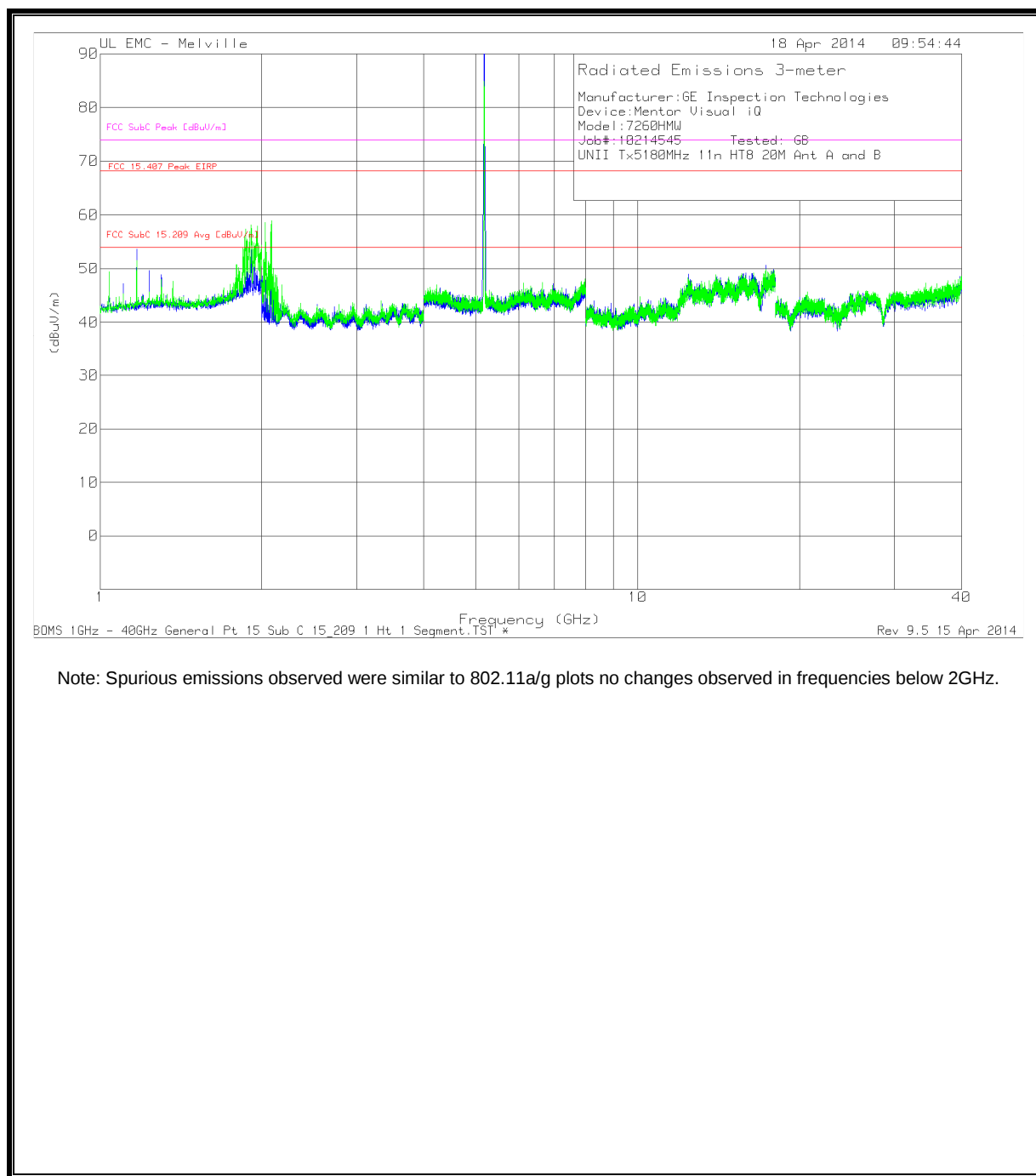
### 8.14.1. RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL MIMO)



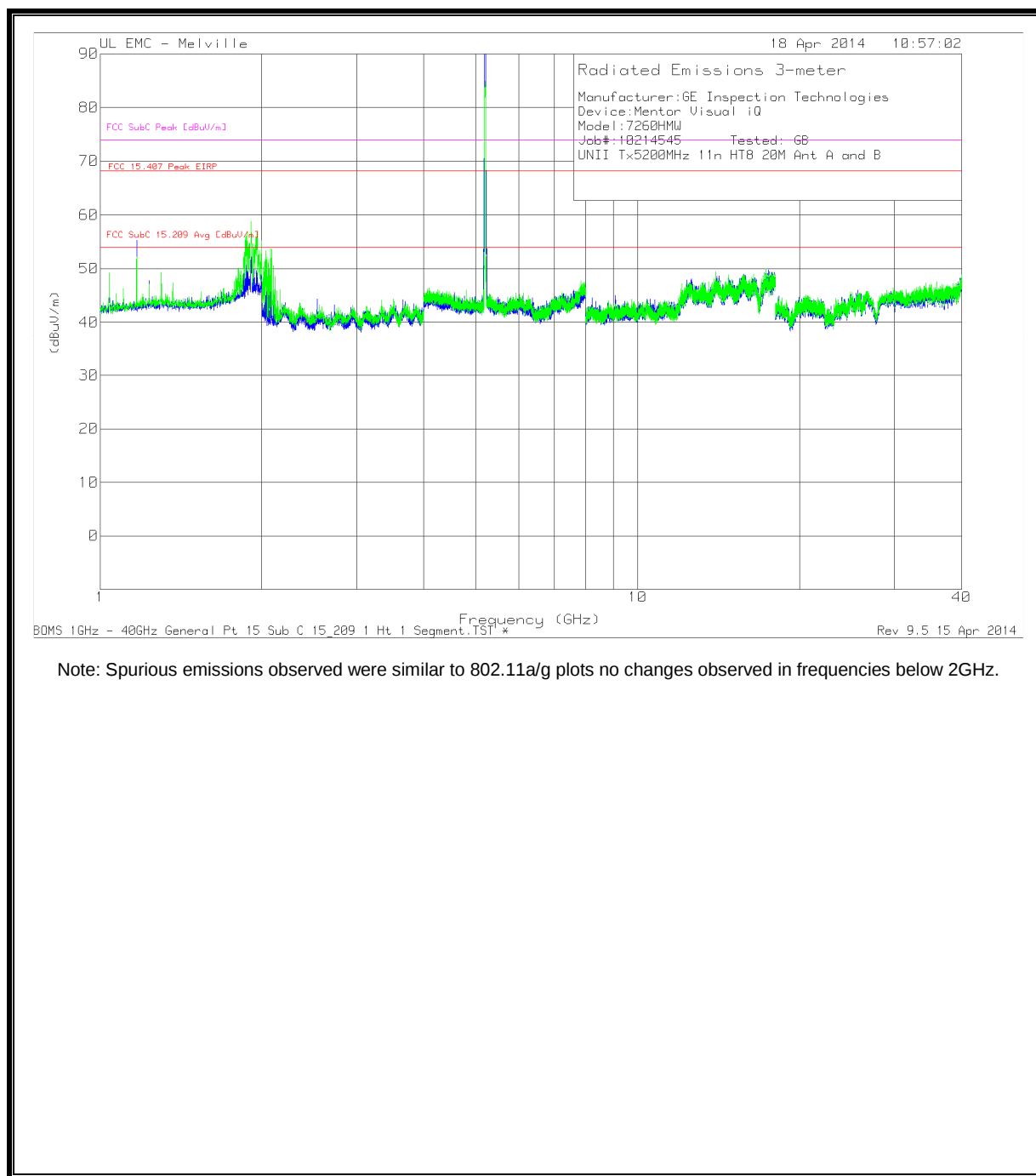
## RESTRICTED & AUTHORIZED BANDEGE (HIGH CHANNEL MIMO)



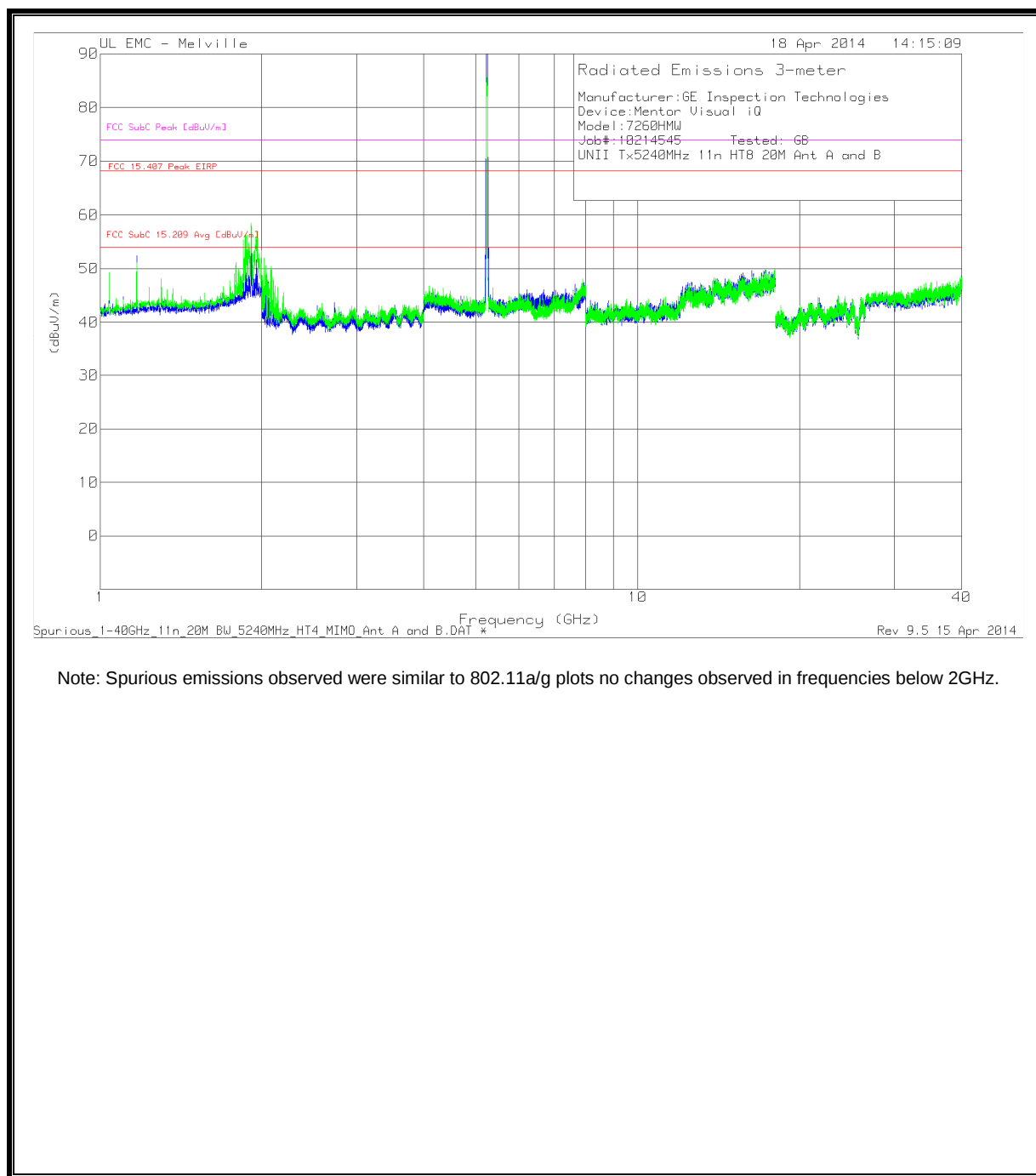
**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL MIMO**



**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL MIMO**



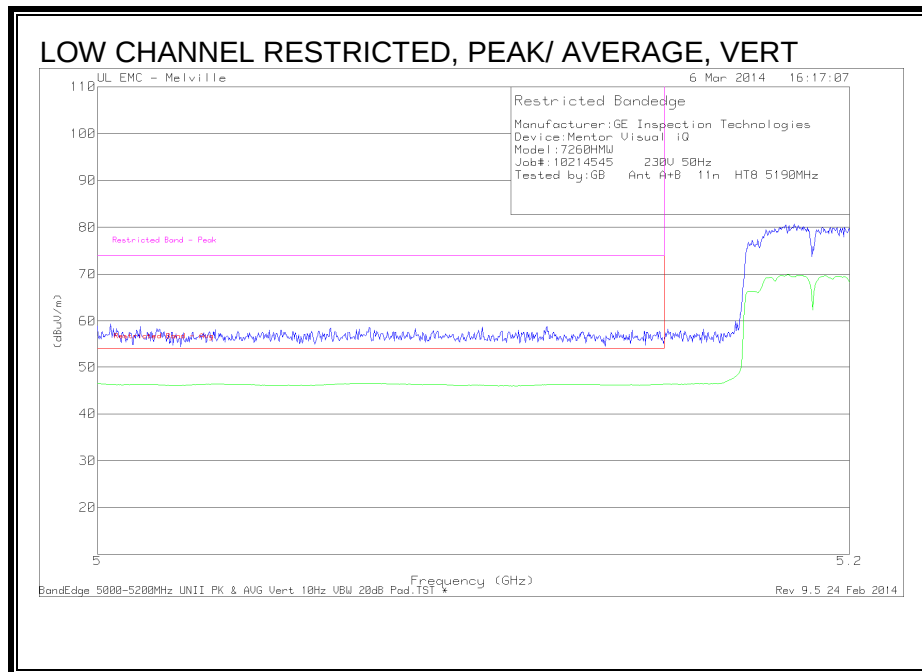
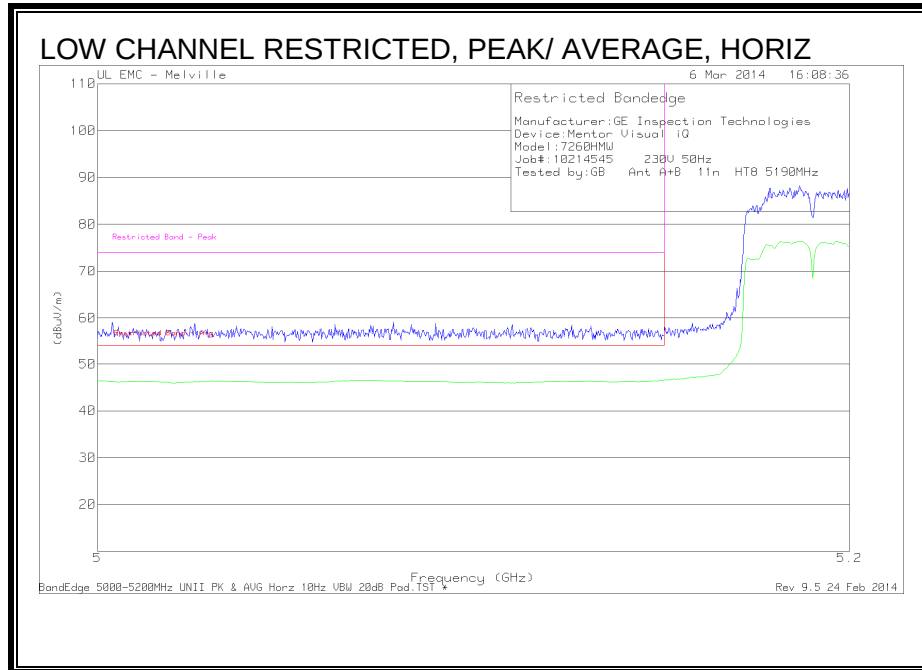
**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL MIMO**



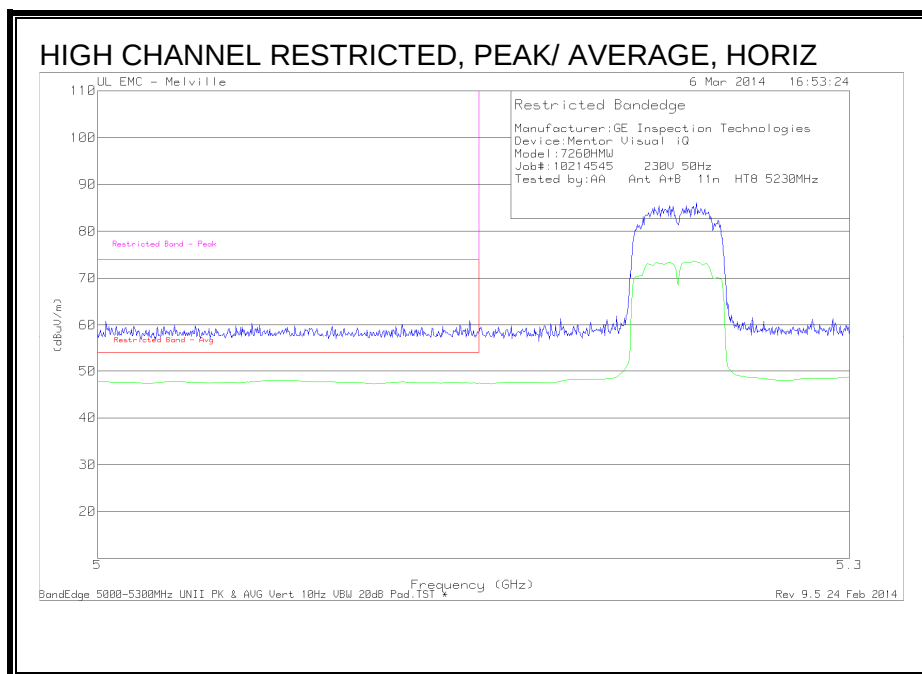
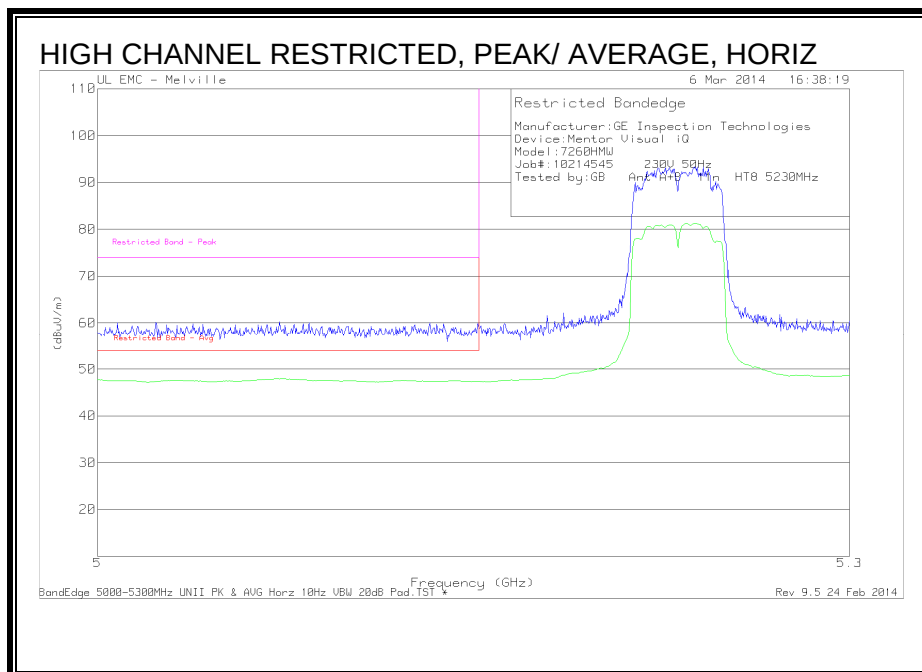
Note: Spurious emissions observed were similar to 802.11a/g plots no changes observed in frequencies below 2GHz.

## 8.15. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND (MIMO)

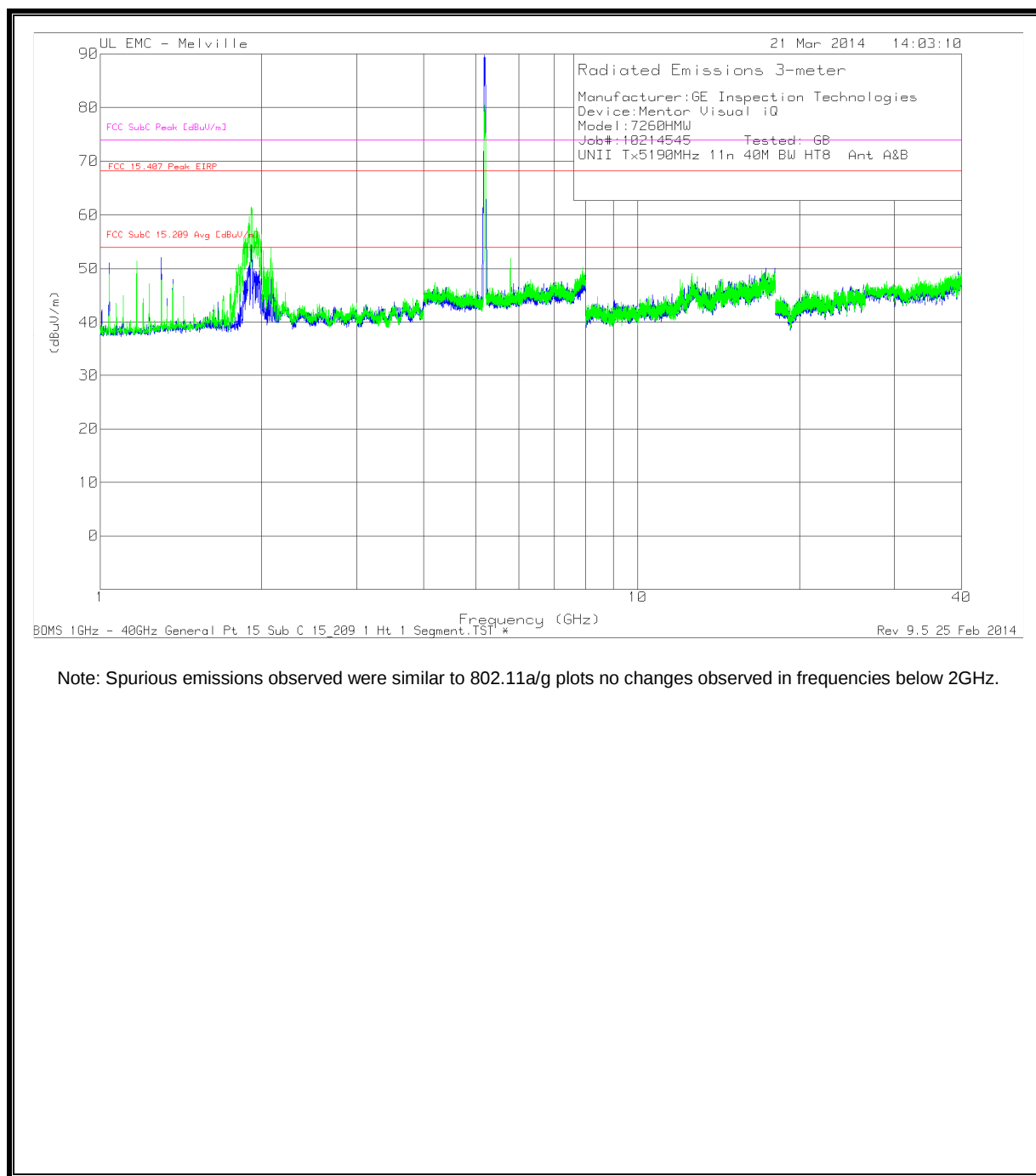
### 8.15.1. RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL MIMO)



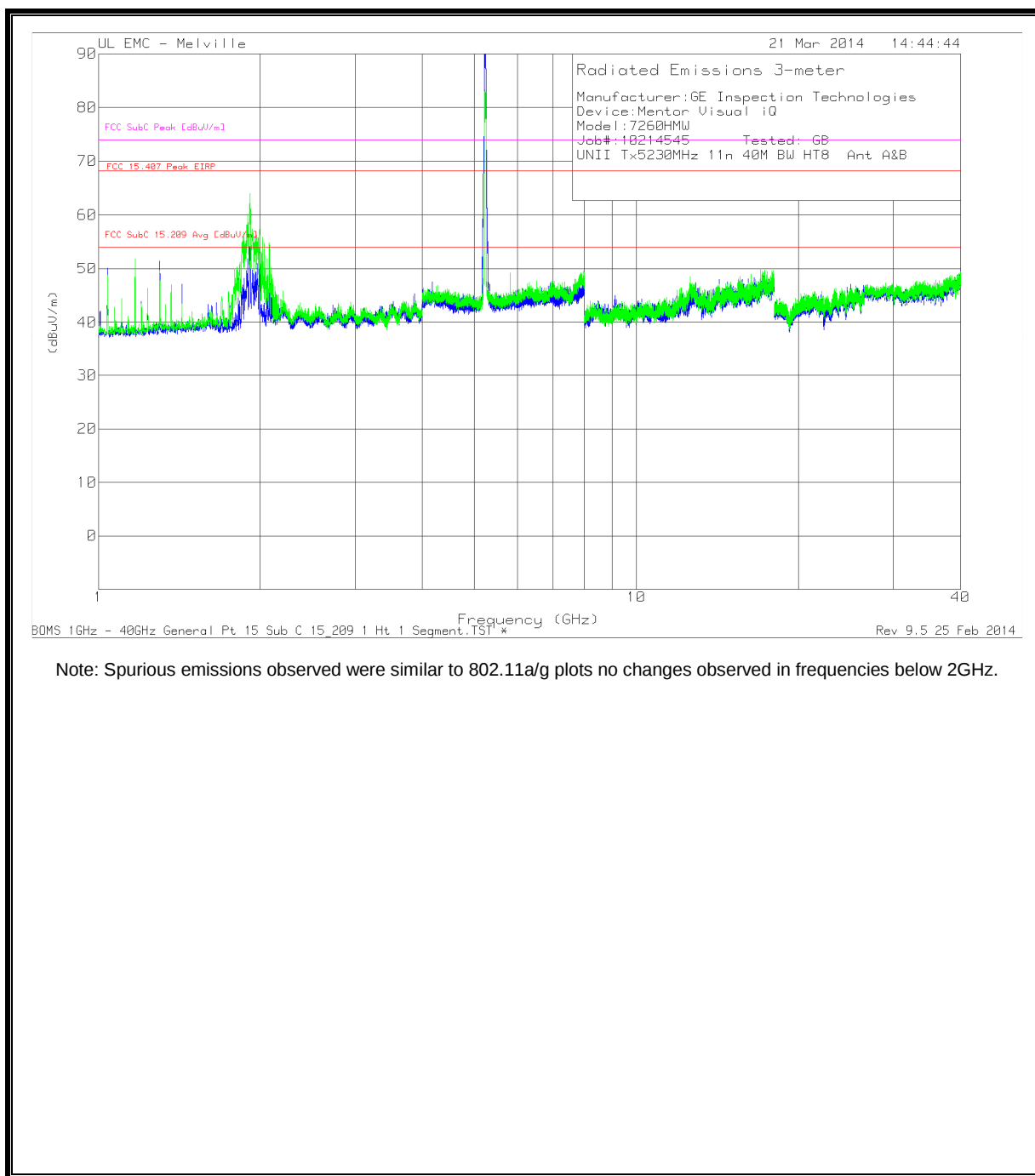
**RESTRICTED & AUTHORIZED BANDEDGE (HIGH CHANNEL MIMO)**



**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL MIMO**

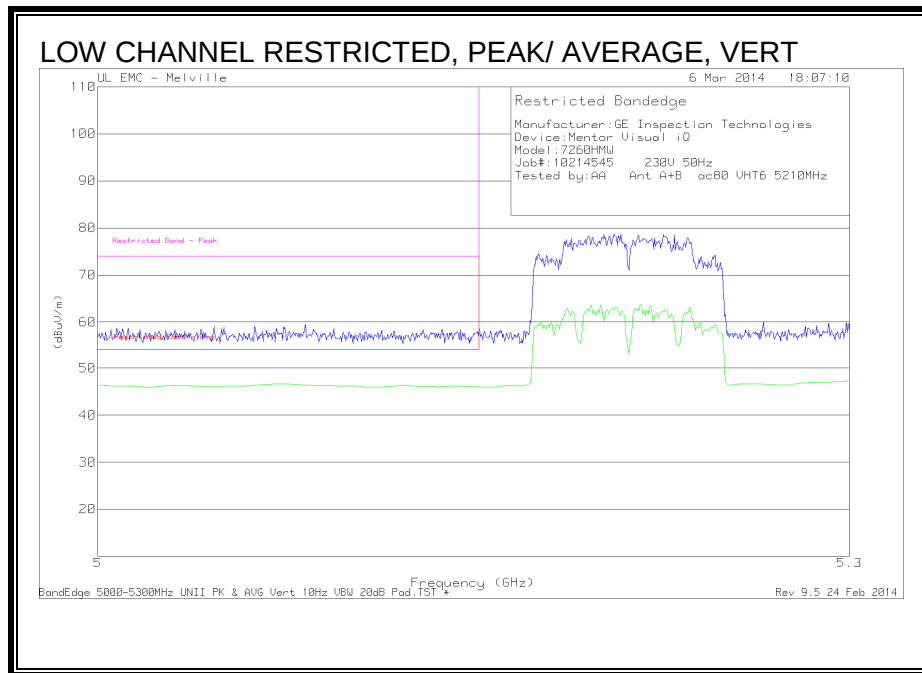
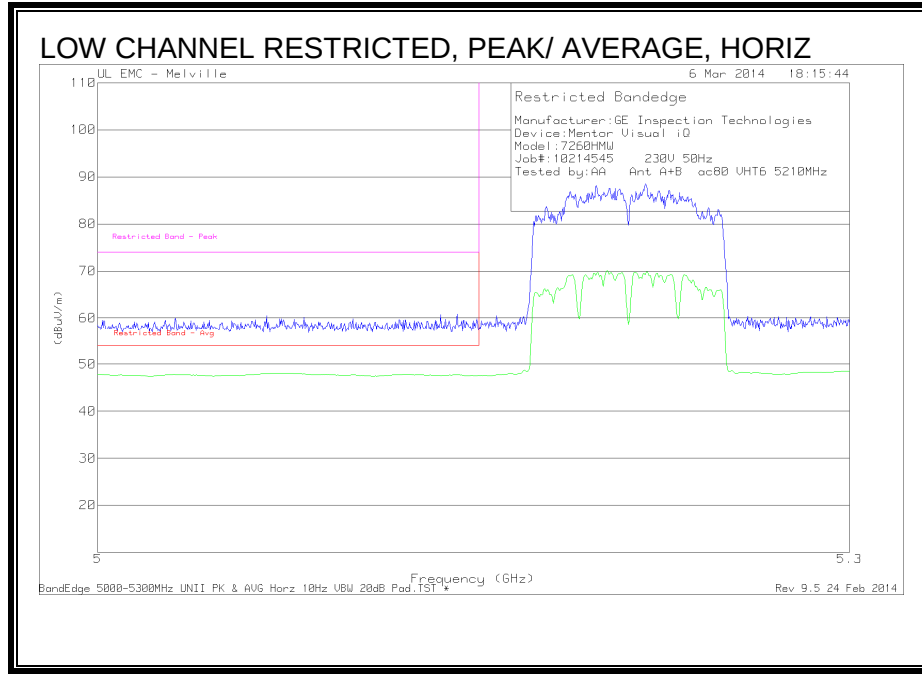


**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL MIMO**

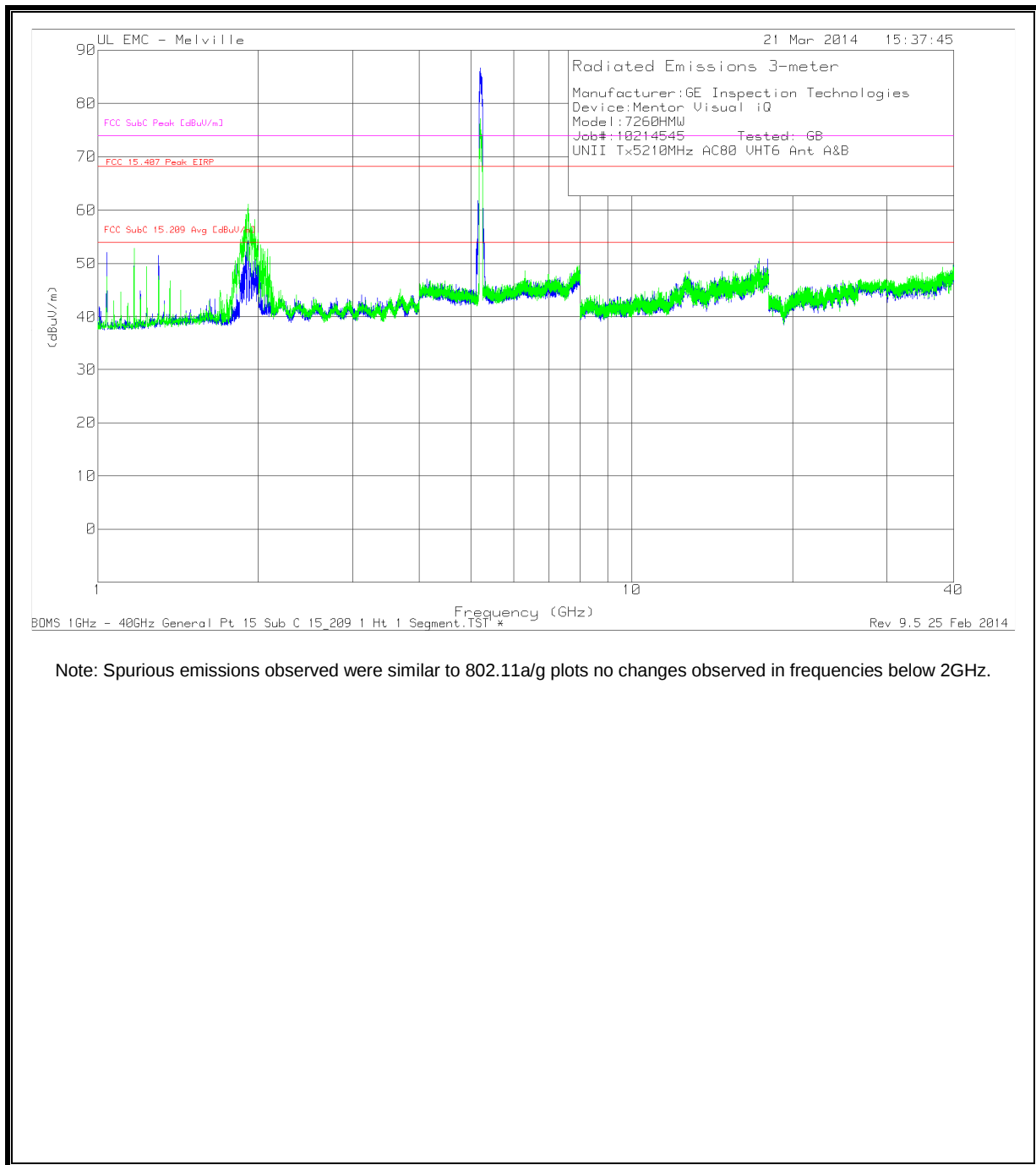


## 8.16. TX ABOVE 1 GHz 802.11ac 80 MODE IN THE 5.2 GHz BAND (MIMO)

### 8.16.1. RESTRICTED & AUTHORIZED BANDEDGE (MIMO)

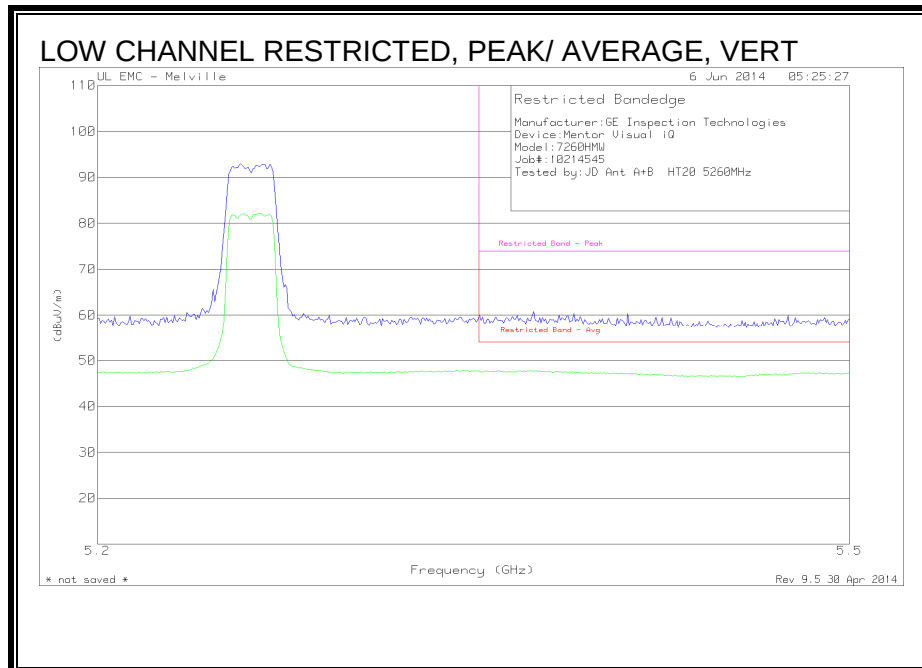
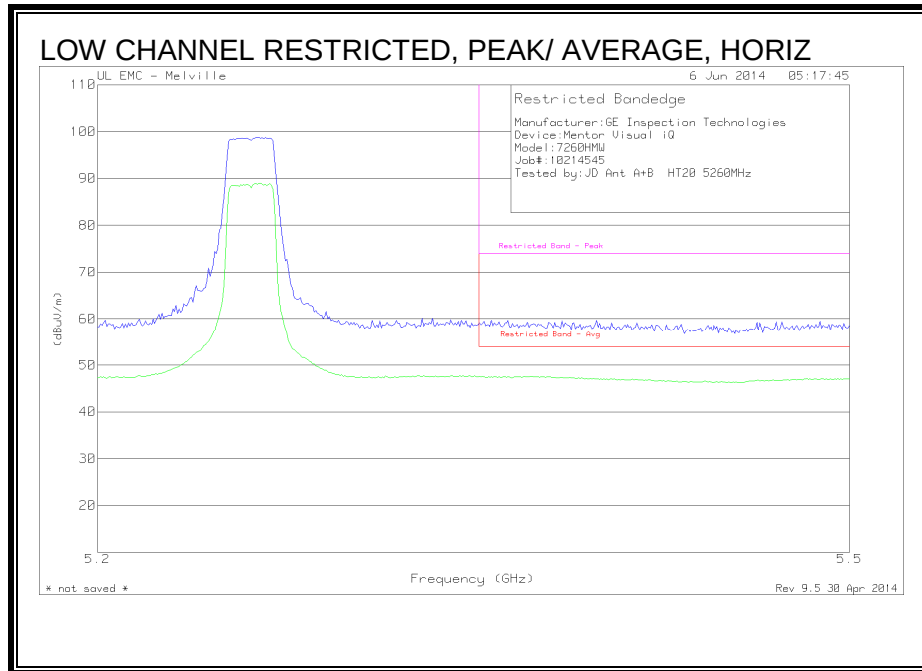


**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL MIMO**

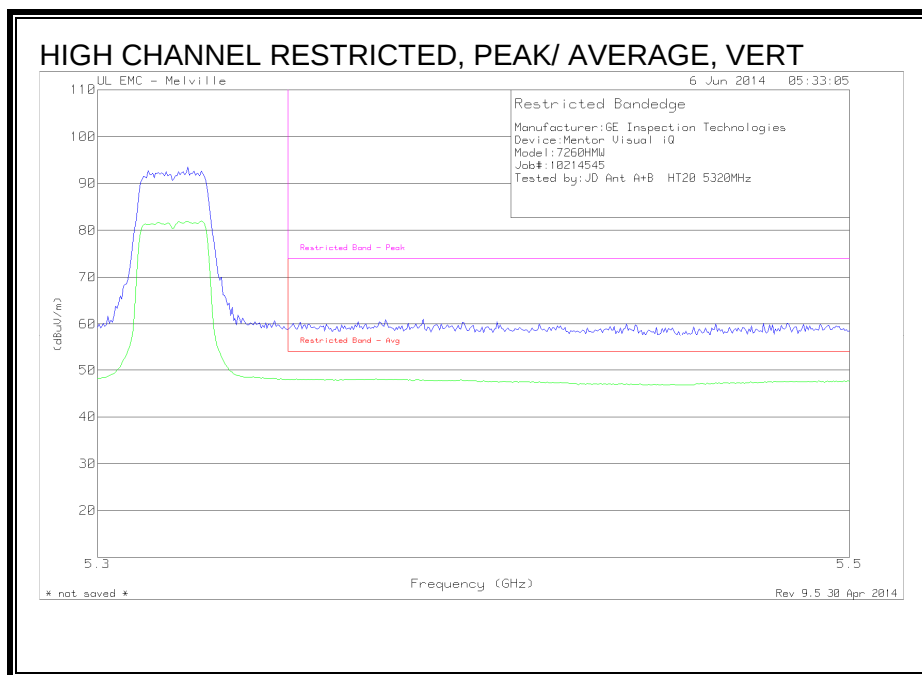
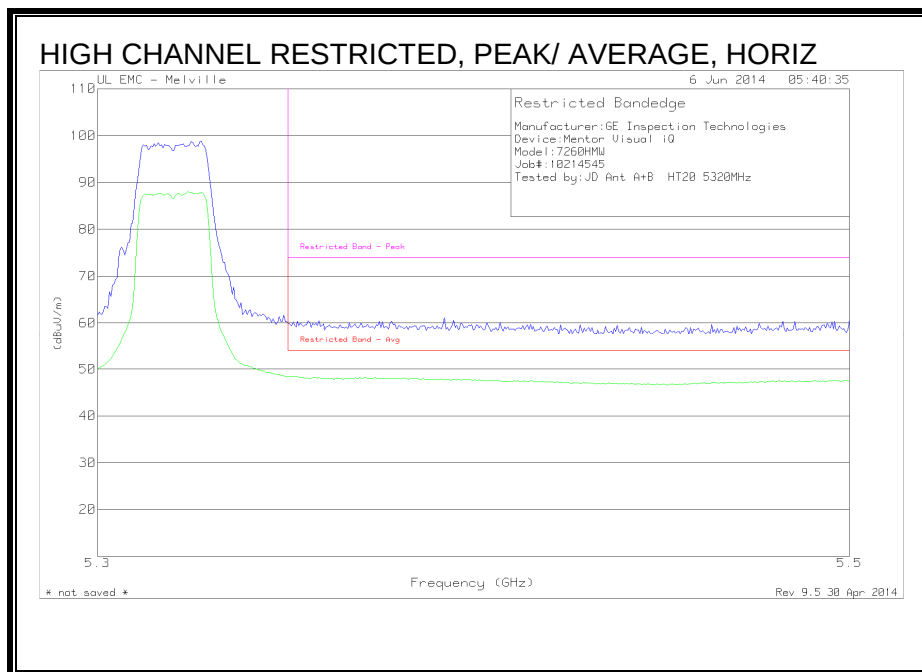


## 8.17. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND (MIMO)

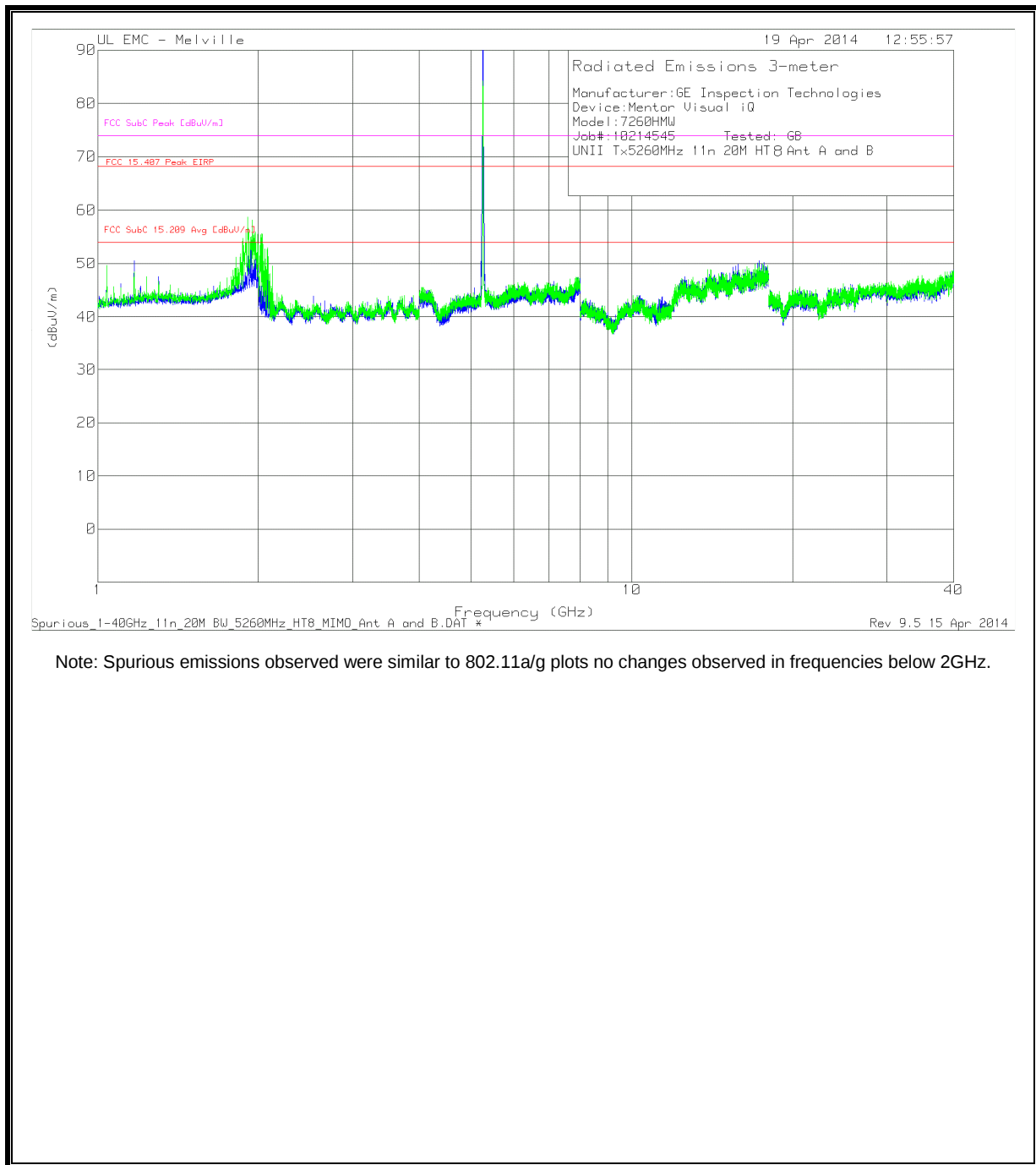
### 8.17.1. RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL MIMO)



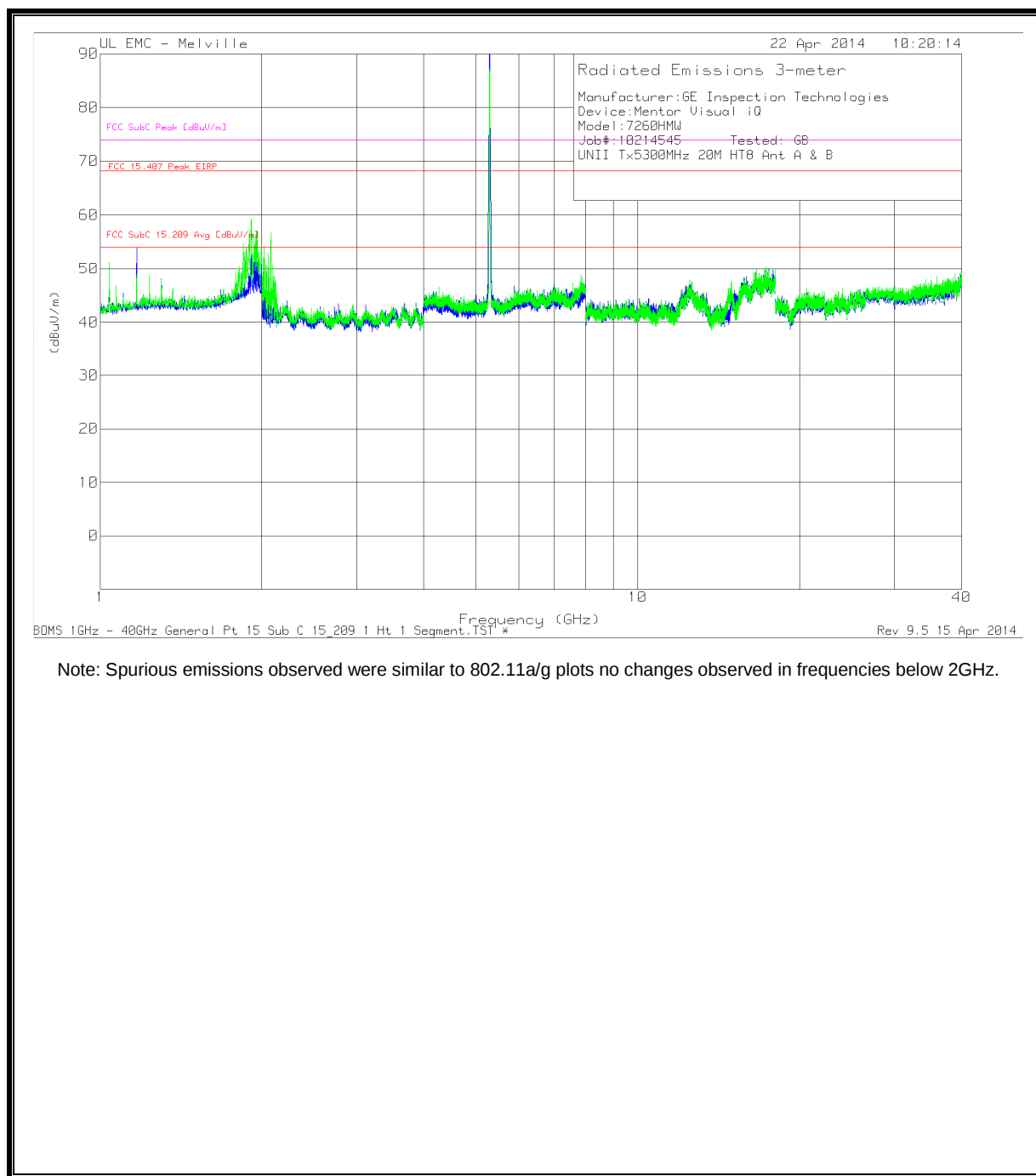
**RESTRICTED & AUTHORIZED BANDEGE (HIGH CHANNEL MIMO)**



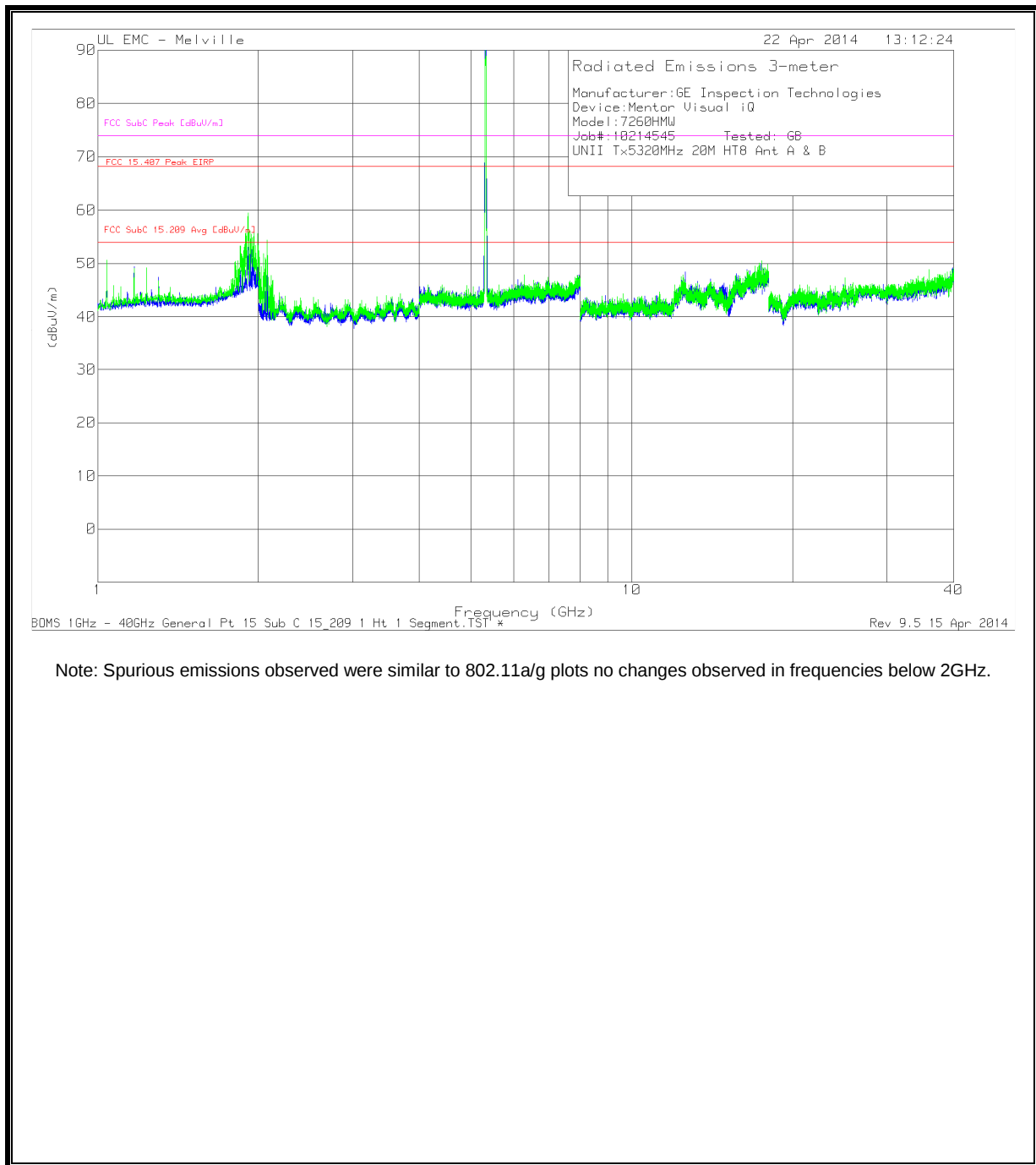
**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL MIMO**



**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL MIMO**

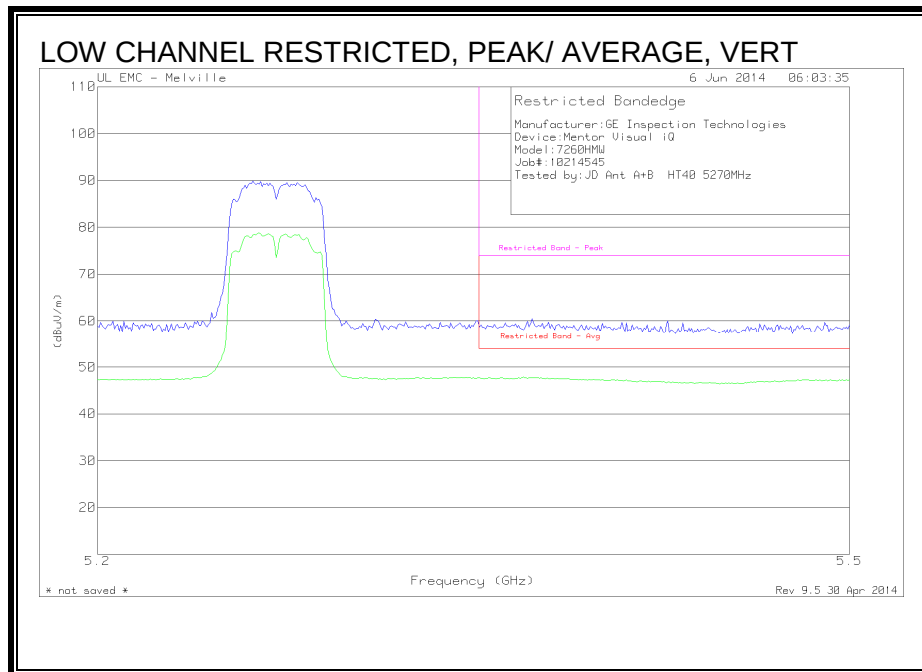
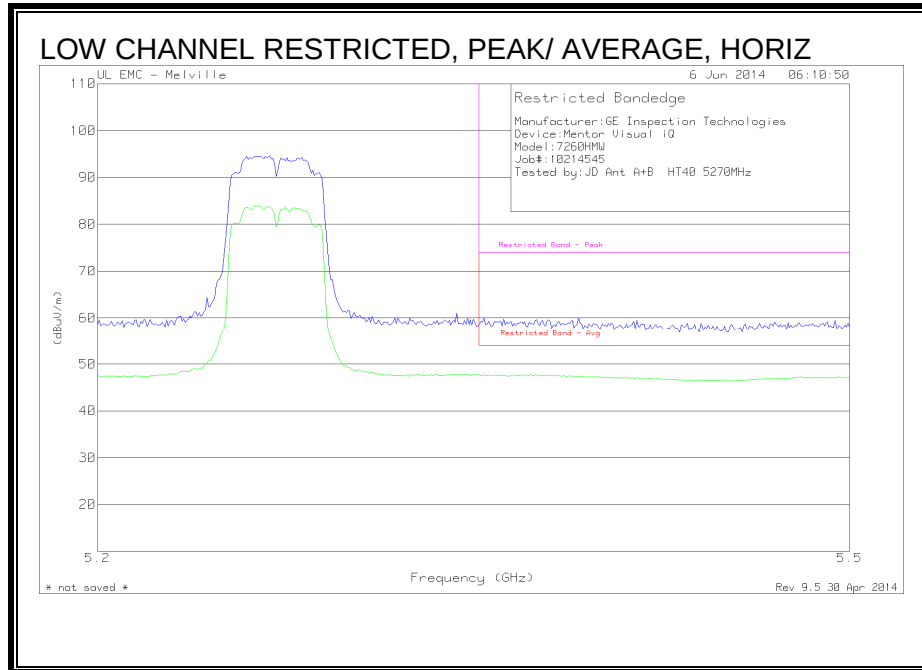


**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL MIMO**

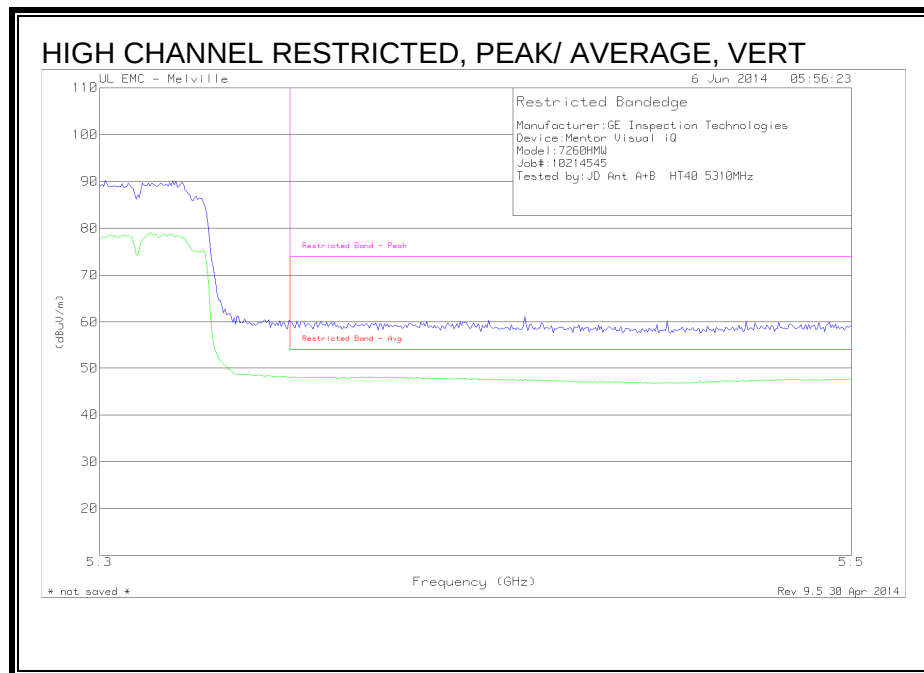
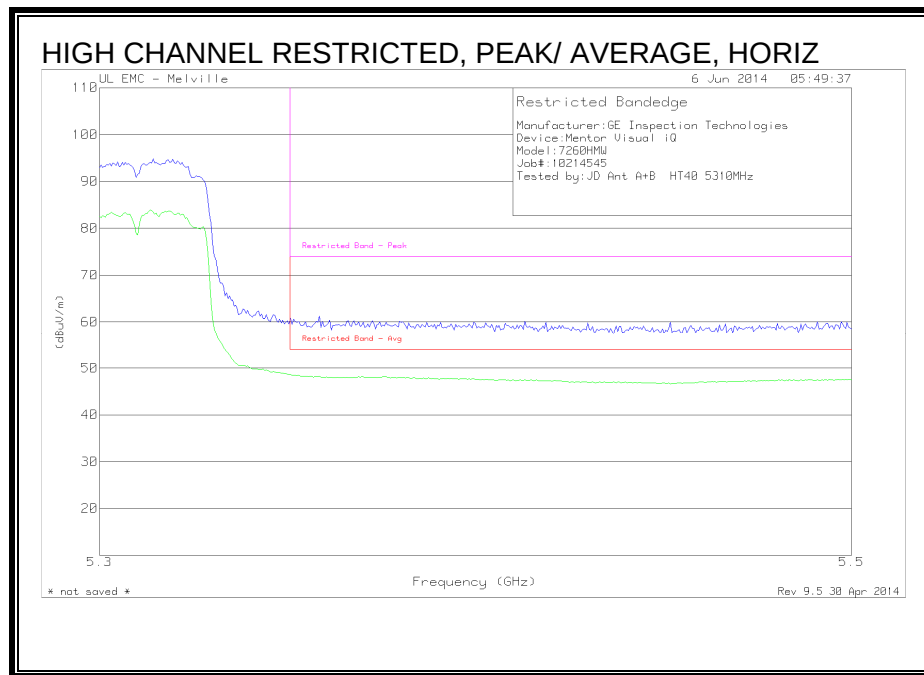


## 8.18. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.3 GHz BAND (MIMO)

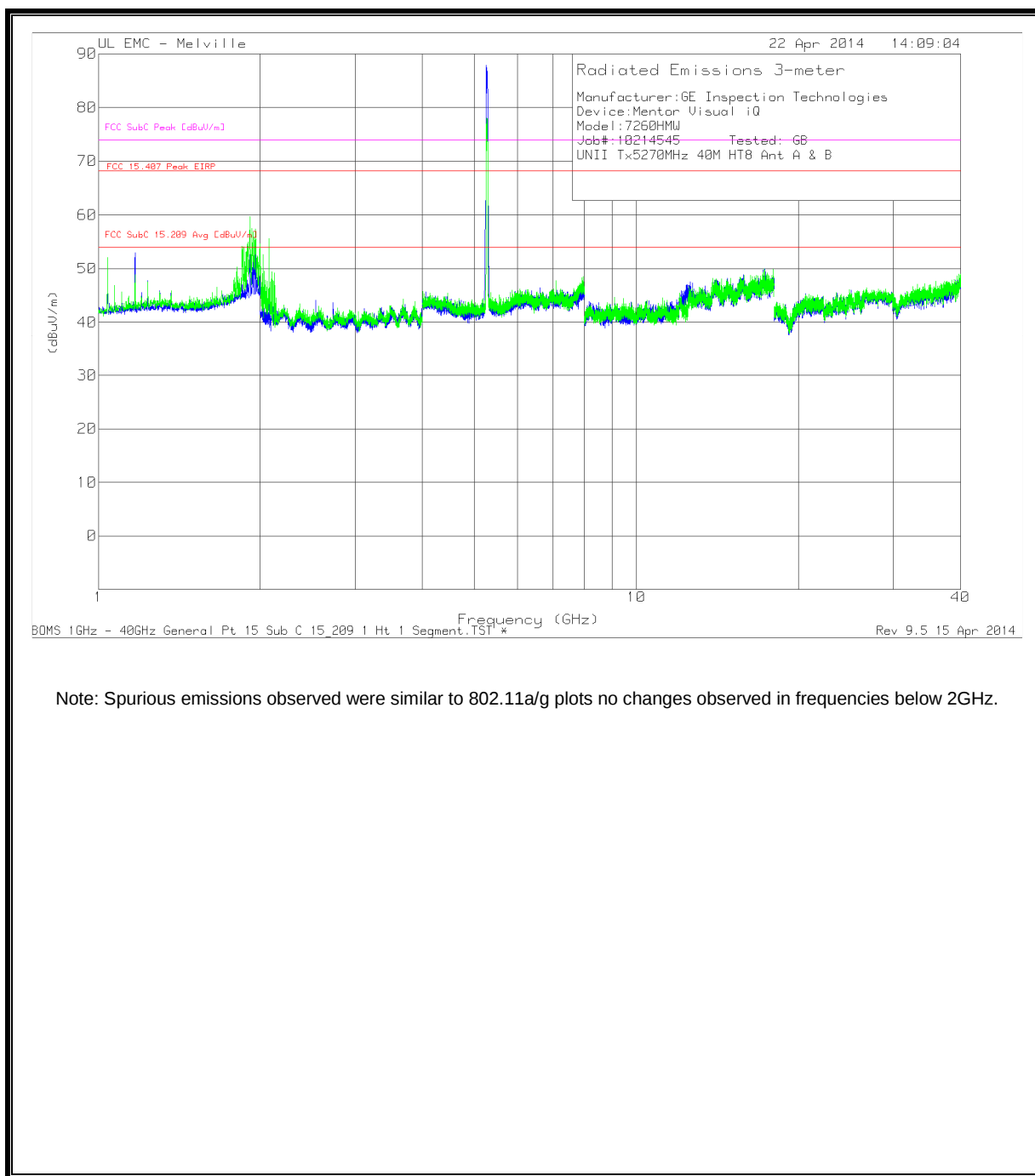
### 8.18.1. RESTRICTED & AUTHORIZED BANDEDGE (LOW CHANNEL MIMO)



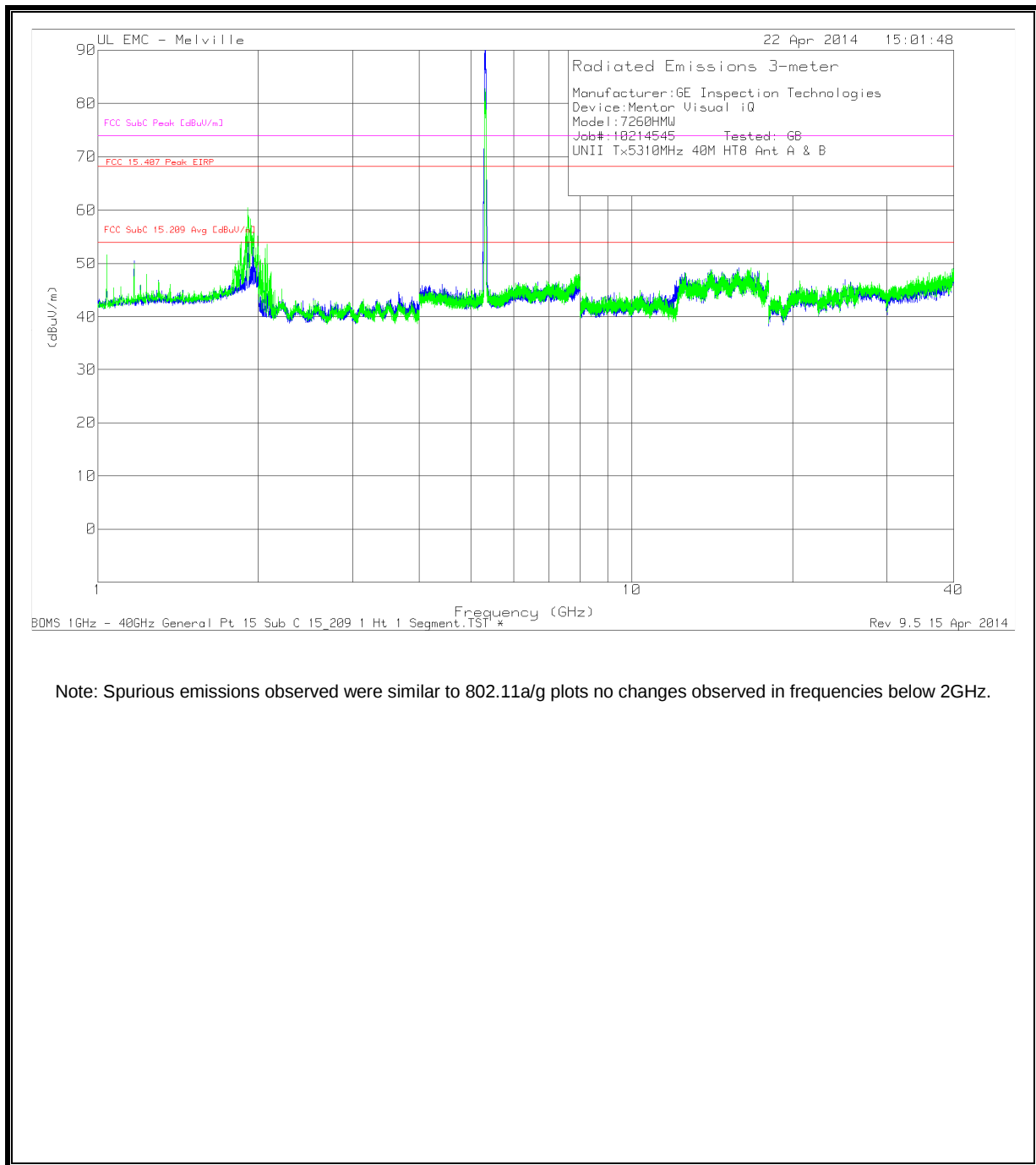
## RESTRICTED & AUTHORIZED BANDEDGE (HIGH CHANNEL MIMO)



**HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL MIMO**



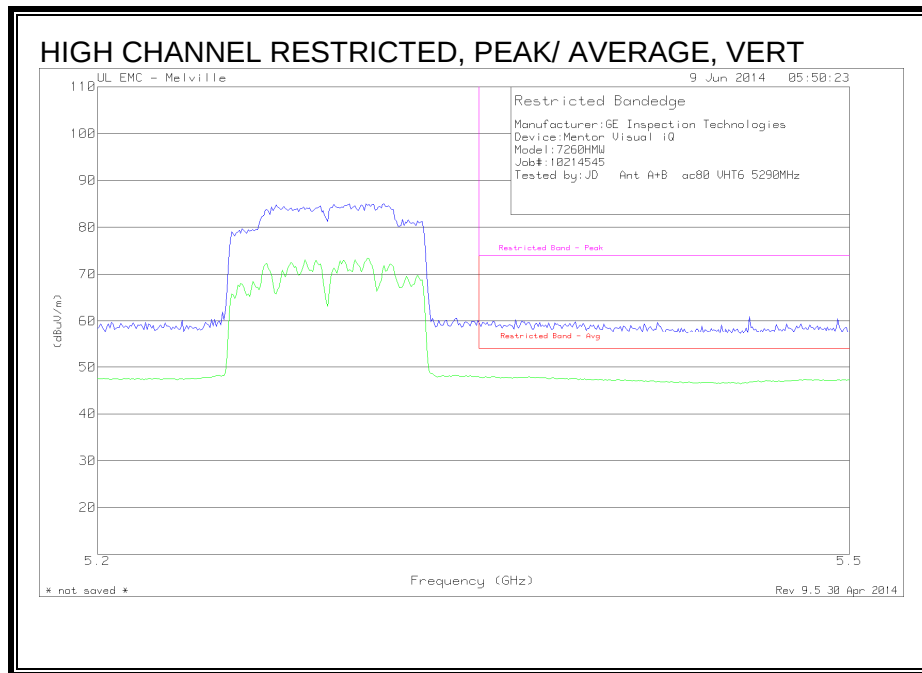
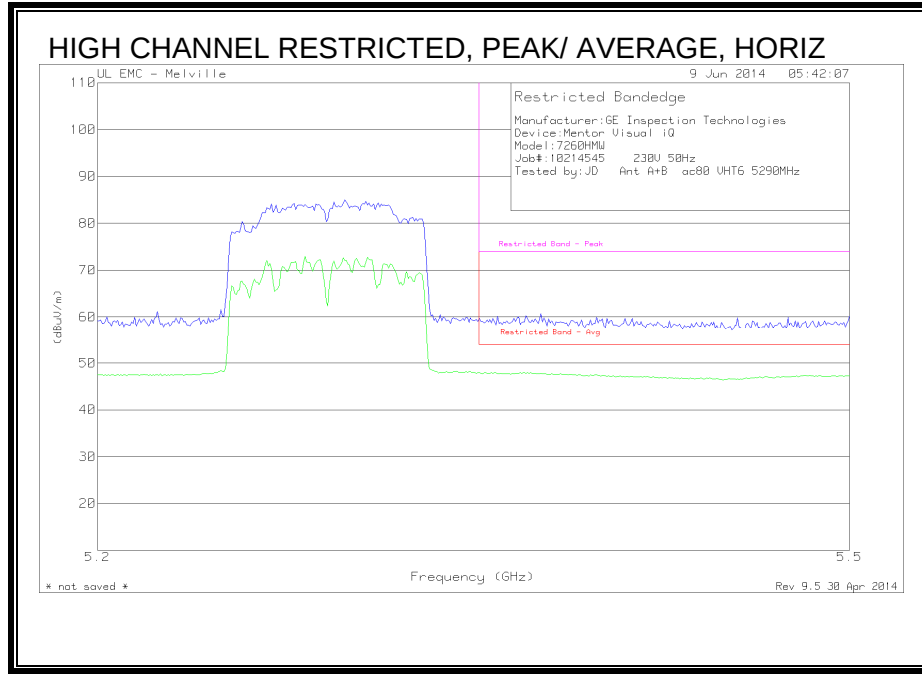
**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL MIMO**



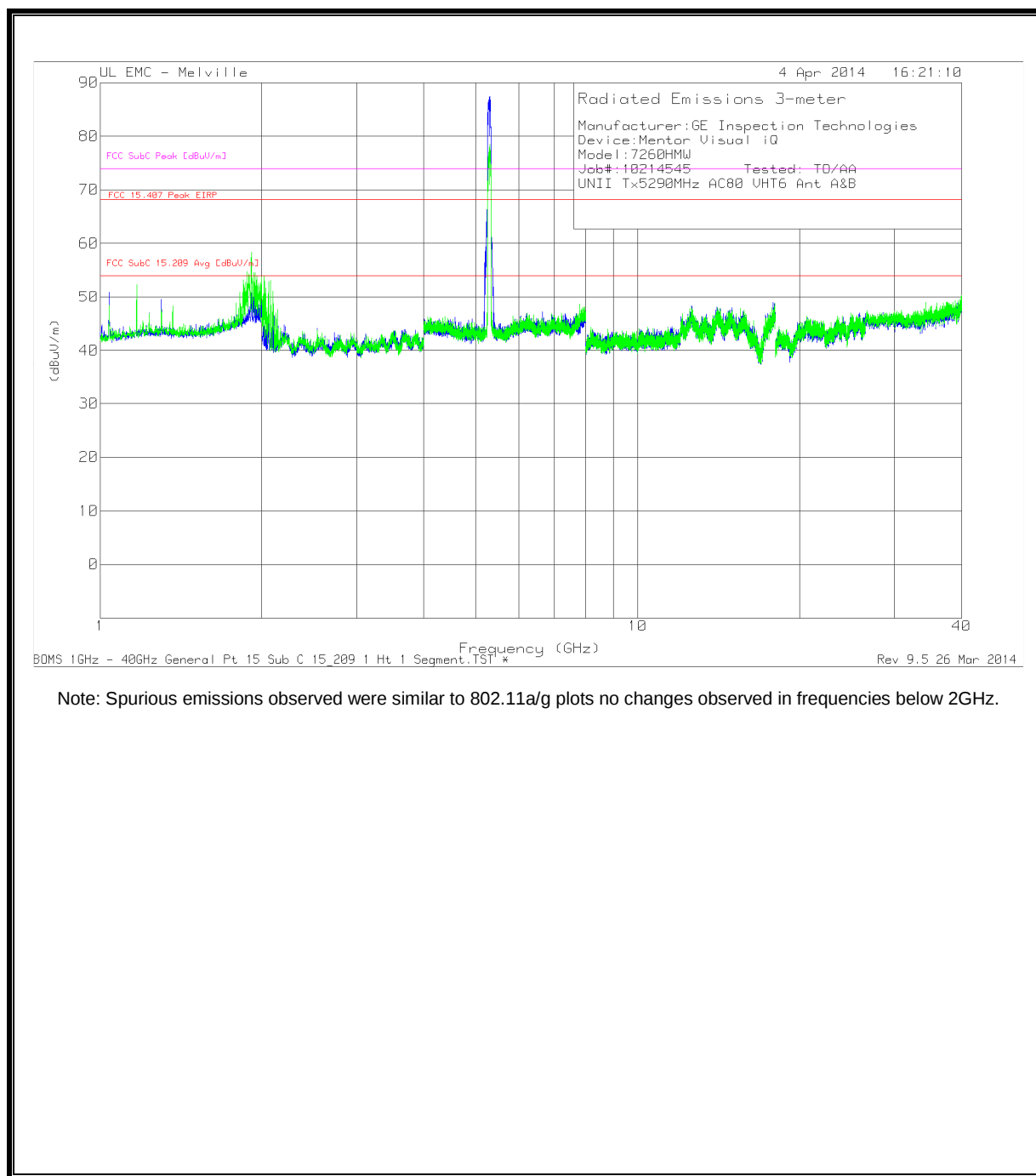
Note: Spurious emissions observed were similar to 802.11a/g plots no changes observed in frequencies below 2GHz.

## 8.19. TX ABOVE 1 GHz 802.11ac 80 MODE IN THE 5.3 GHz BAND (MIMO)

### 8.19.1. RESTRICTED & AUTHORIZED BANDEDGE (MIMO)

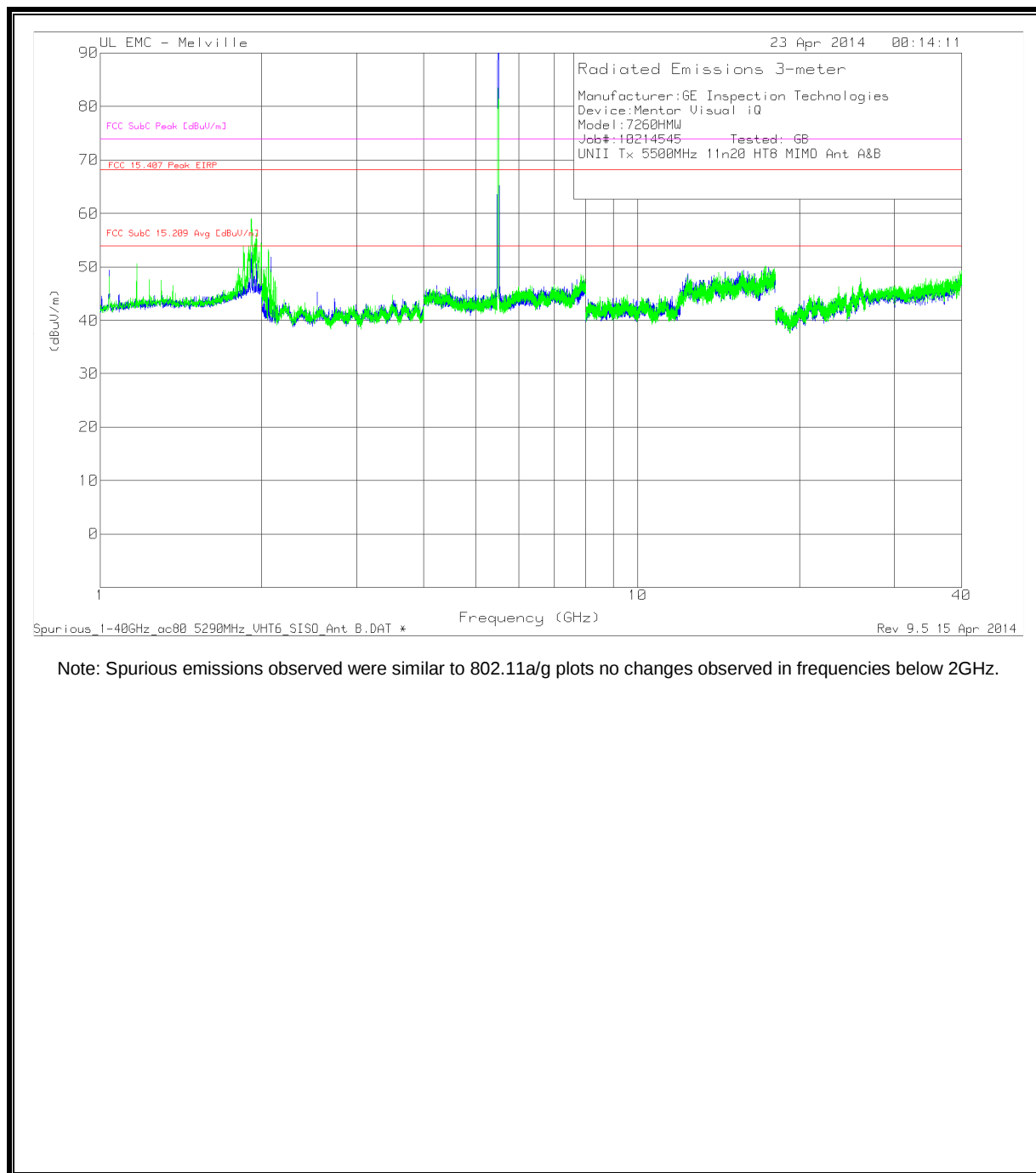


**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL MIMO**



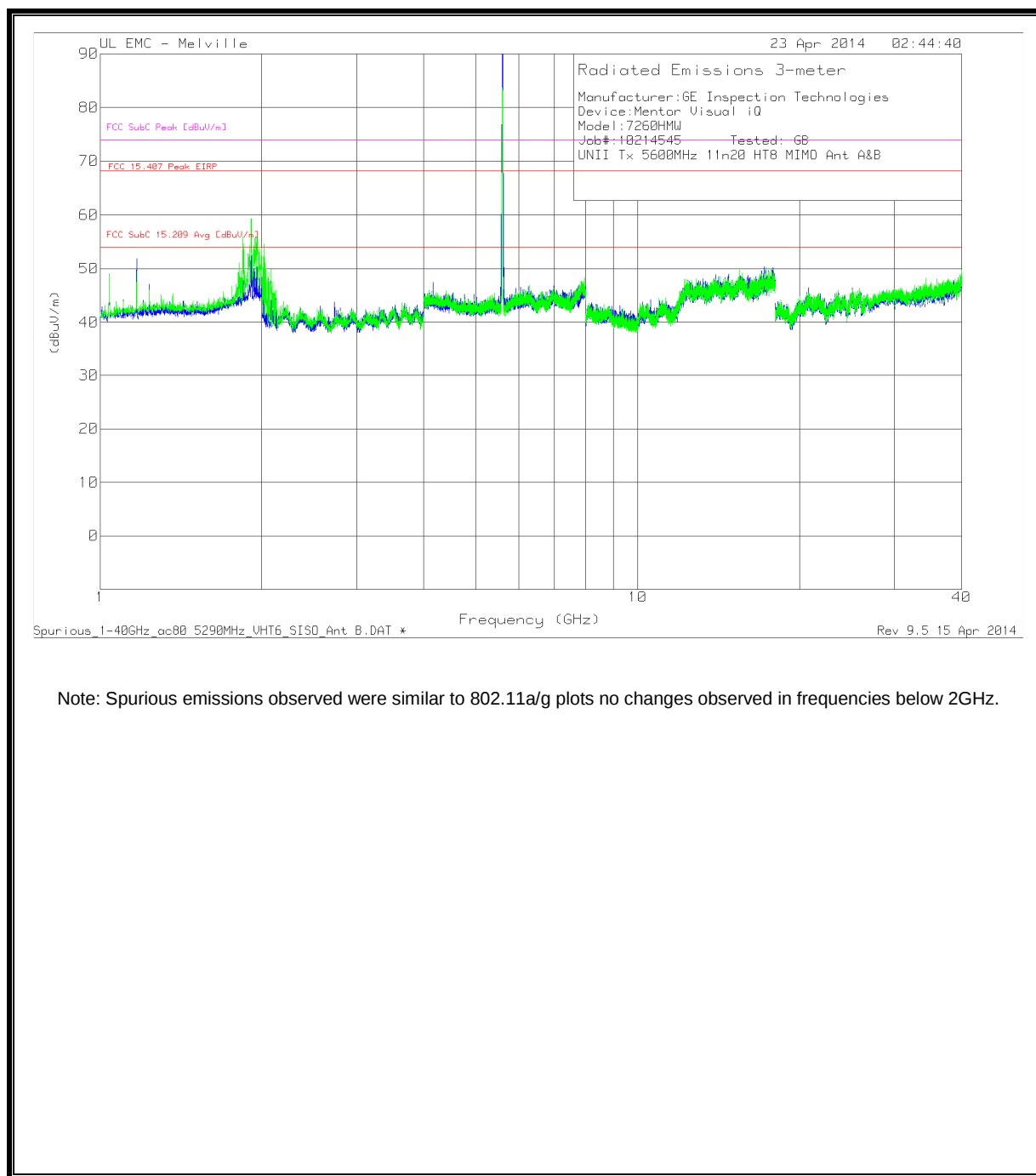
## 8.20. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.6 GHz BAND (MIMO)

### HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL MIMO



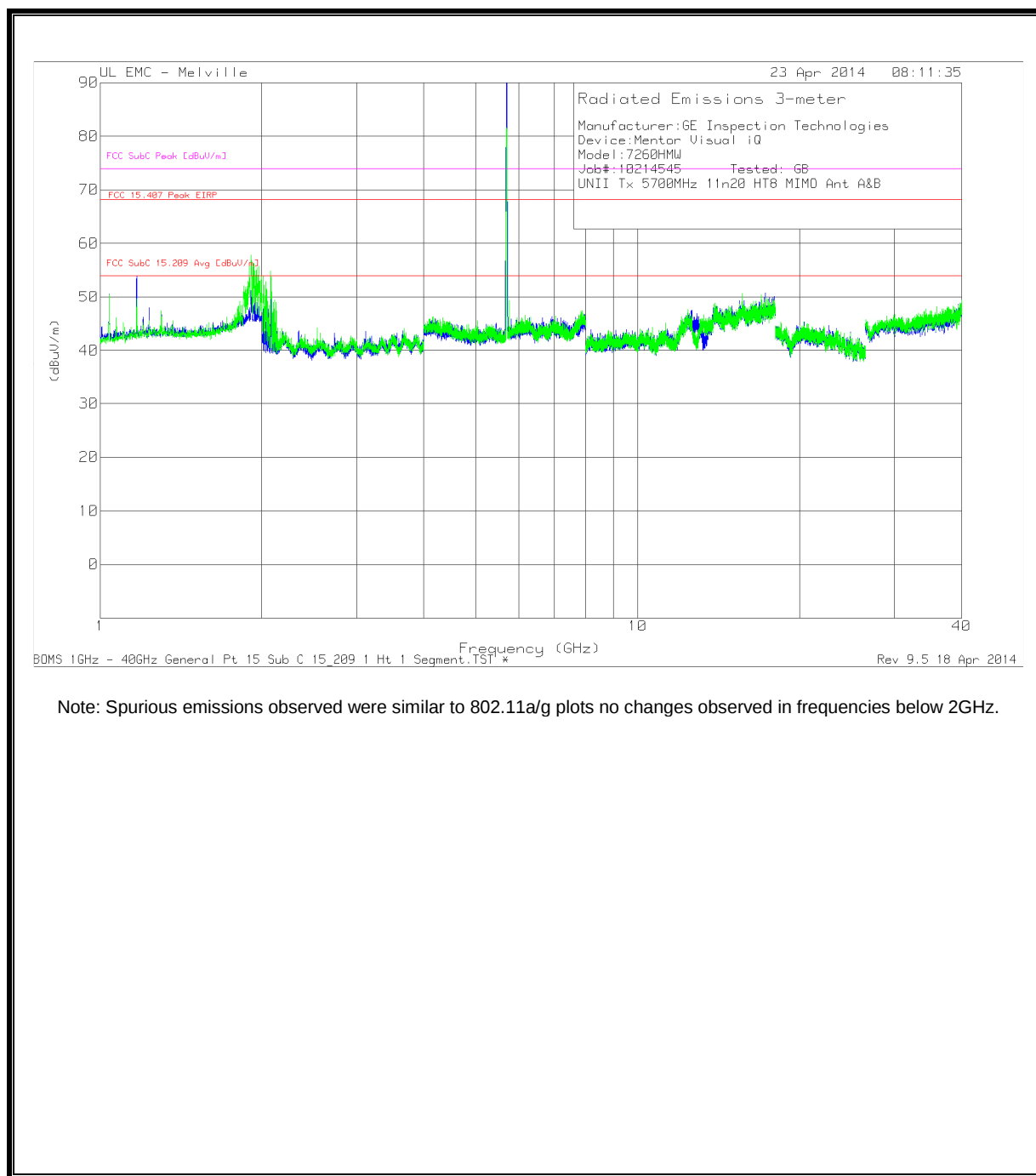
Note: Spurious emissions observed were similar to 802.11a/g plots no changes observed in frequencies below 2GHz.

**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL MIMO**



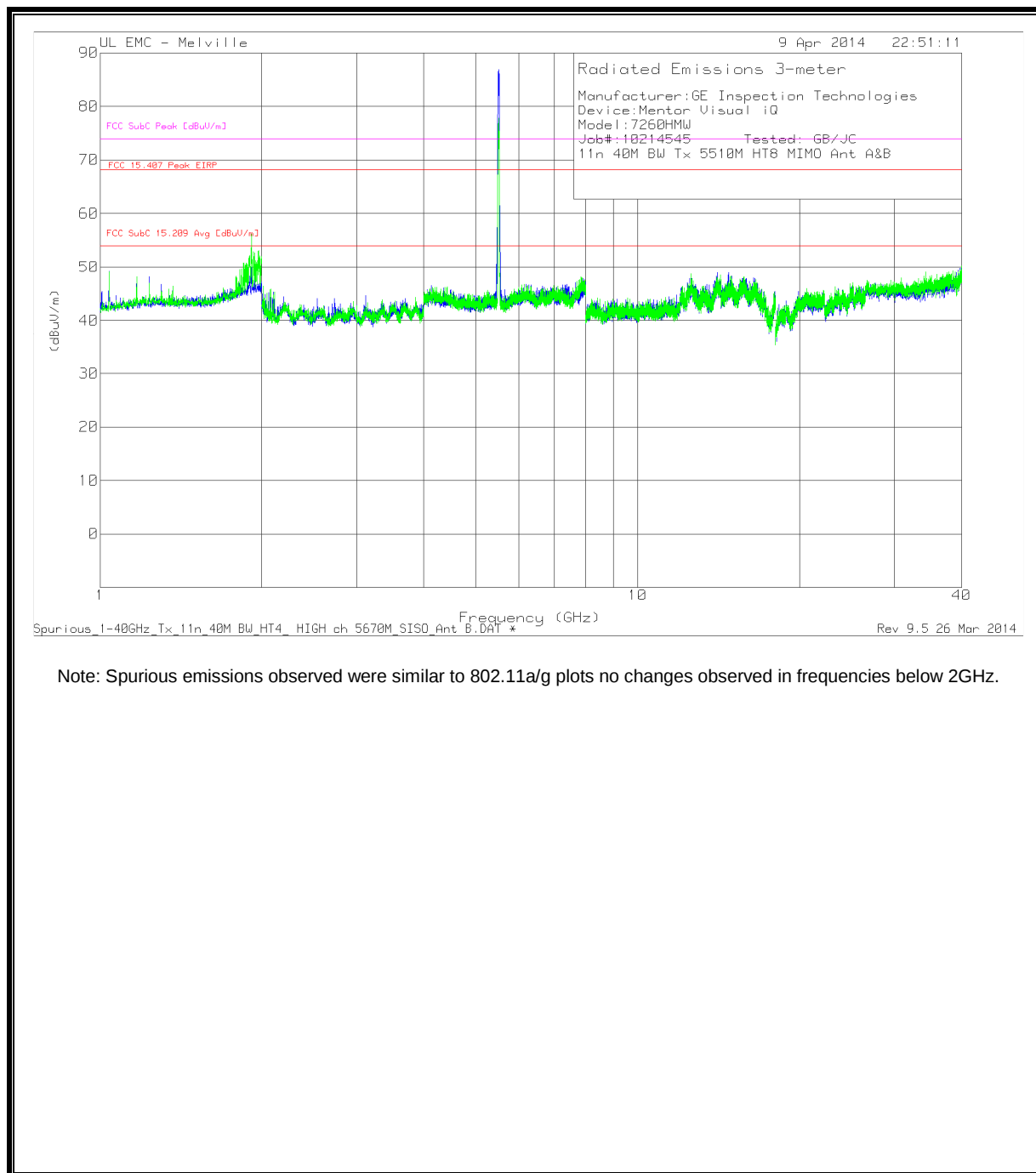
Note: Spurious emissions observed were similar to 802.11a/g plots no changes observed in frequencies below 2GHz.

**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL MIMO**



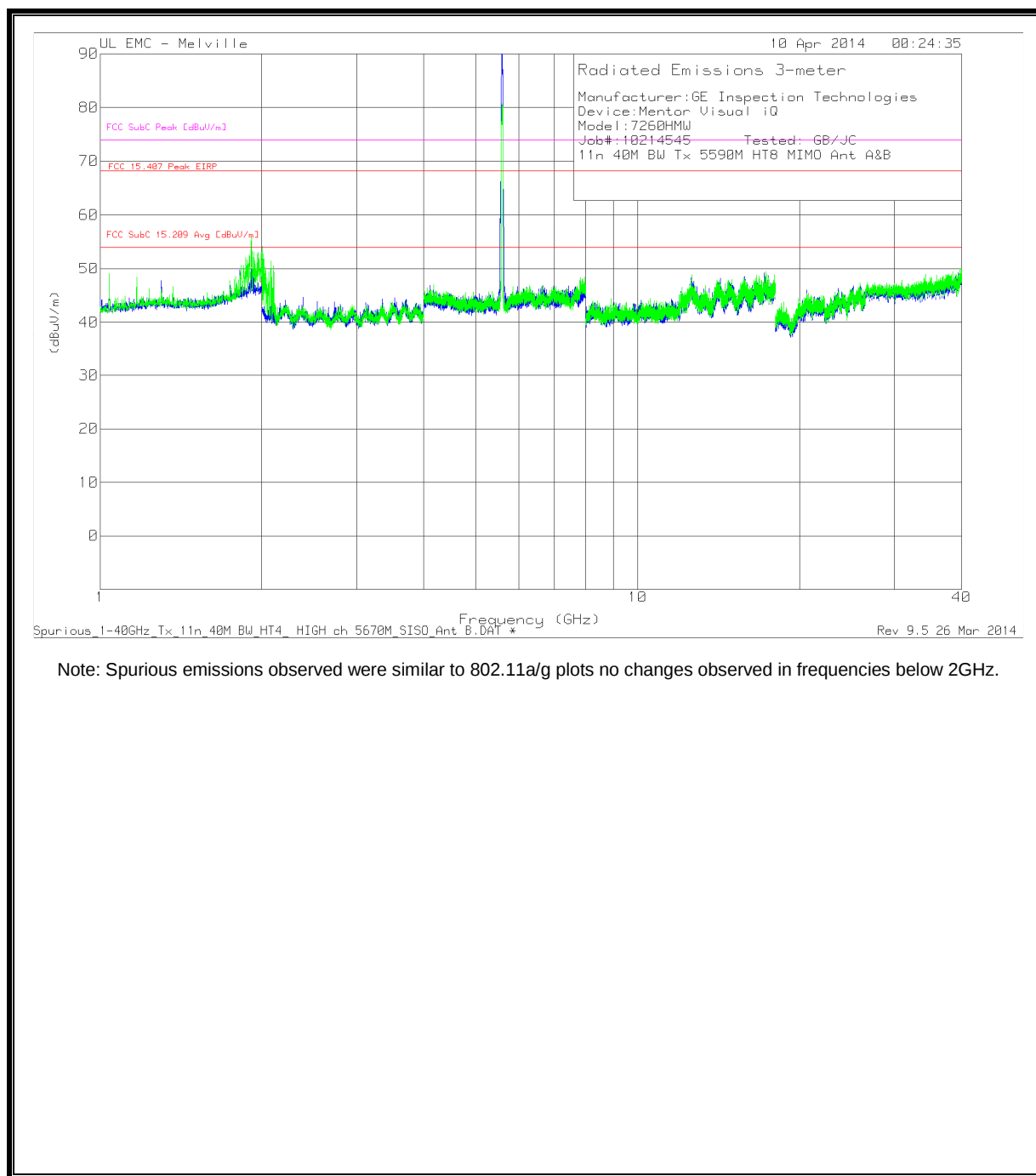
## 8.21. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.6 GHz BAND (MIMO)

### HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL MIMO



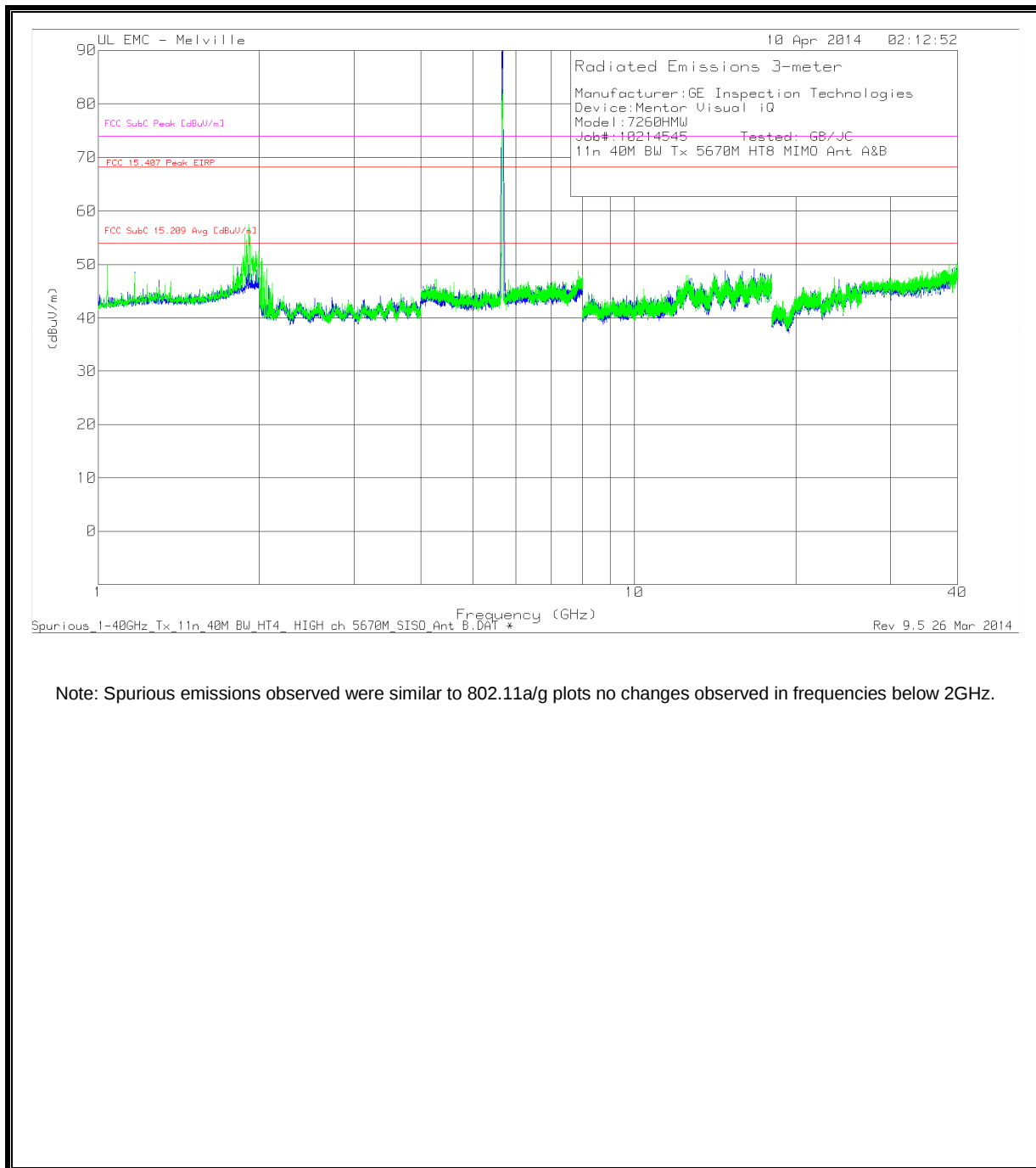
Note: Spurious emissions observed were similar to 802.11a/g plots no changes observed in frequencies below 2GHz.

**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL MIMO**



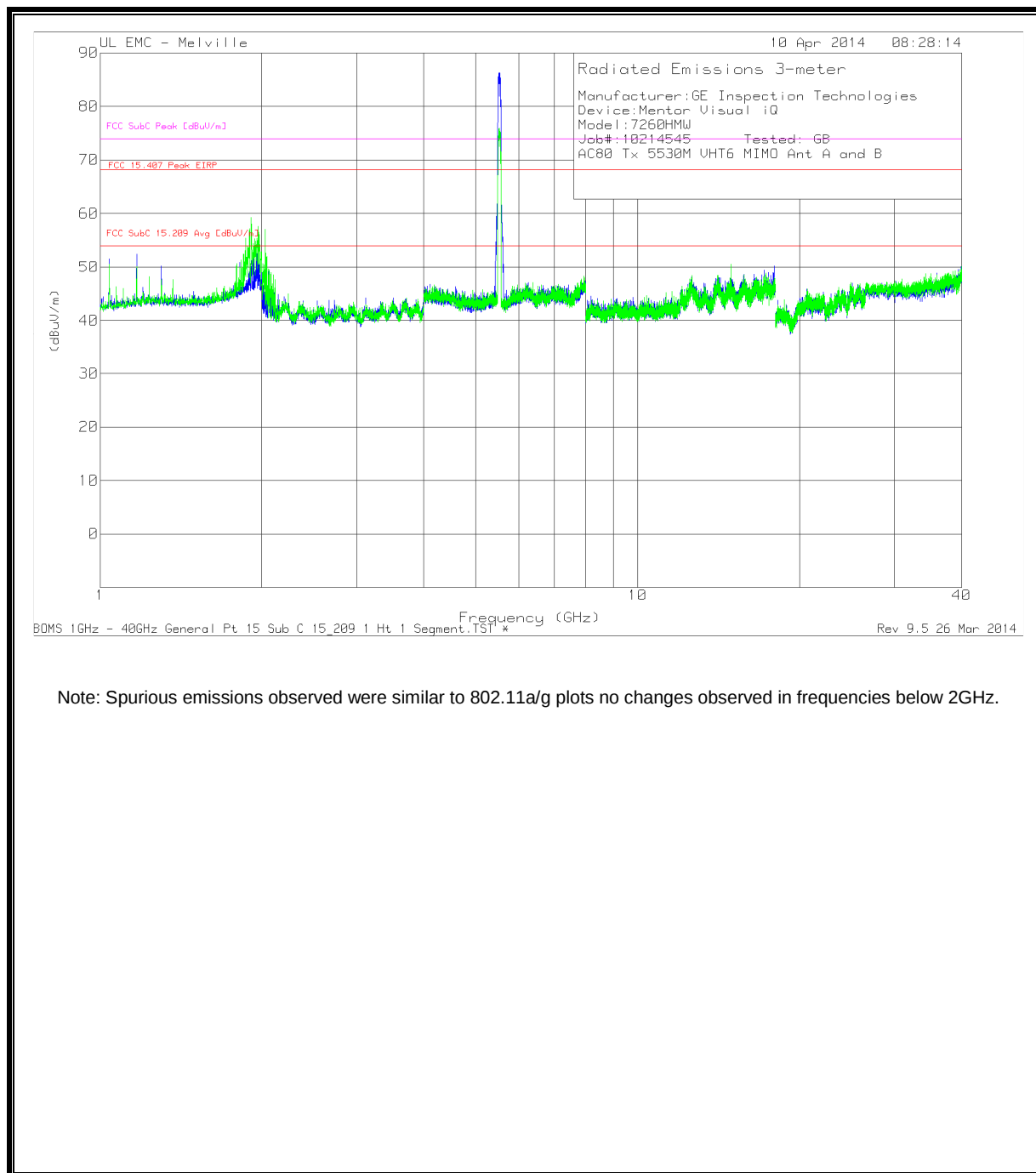
Note: Spurious emissions observed were similar to 802.11a/g plots no changes observed in frequencies below 2GHz.

**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL MIMO**

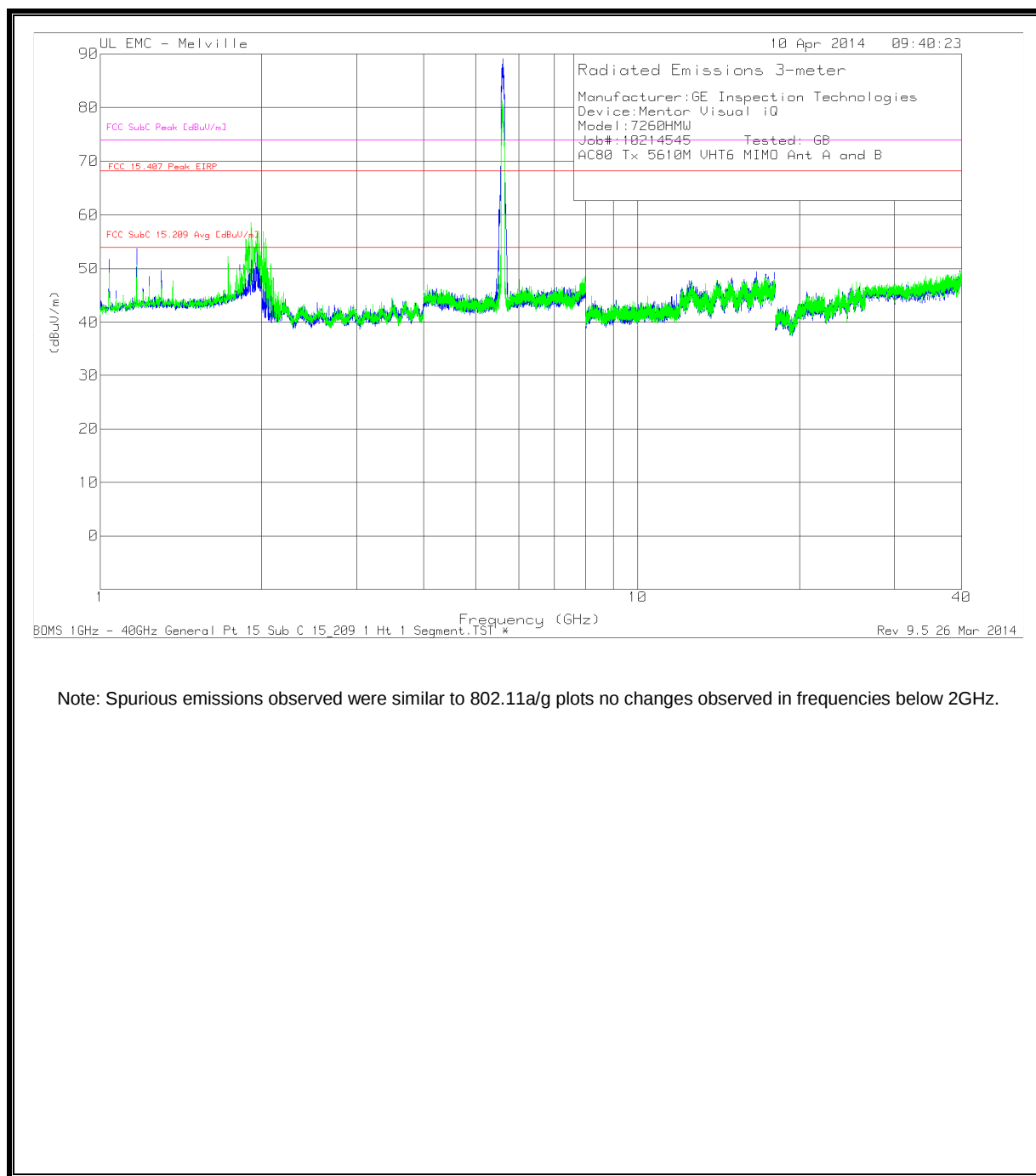


## 8.22. TX ABOVE 1 GHz 802.11ac 80 MODE IN THE 5.6 GHz BAND (MIMO)

### HARMONICS AND SPURIOUS EMISSIONS LOW CHANNEL MIMO



**HARMONICS AND SPURIOUS EMISSIONS MID CHANNEL MIMO**



**HARMONICS AND SPURIOUS EMISSIONS HIGH CHANNEL MIMO**

