

**FCC 47 CFR PART 15 SUBPART C &  
INDUSTRY CANADA RSS-247 ISSUE 2 February 2017**

**CERTIFICATION TEST REPORT**

*For*

Product Name: Video Monitor with Adjustable Lens (Baby Unit)

Model No.: See the Page4

Trademark: VTech

FCC ID: EW780-1318-00

IC: 1135B-80131800

Report No.: ES171103997E

Issue Date: November 03, 2017

*Prepared for*

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**1 TEST RESULT CERTIFICATION**

|                      |  |
|----------------------|--|
| Applicant:           | VTech Telecommunications Ltd.<br>23/F, Tai Ping Industrial Centre, Block 1, 57 Ting Kok Road, Tai Po, Hong Kong                      |
| Manufacturer:        | VTech (Dongguan) Telecommunications Limited.<br>VTech Science Park, Xia Ling Bei Management Zone, Liaobu, Dongguan, Guangdong, China |
| Product Description: | Video Monitor with Adjustable Lens (Baby Unit)   |
| Model Number:        | See the Page 4   |
| File Number:         | ES171103997E   |
| Date of Test:        | 23.10.2017 - 02.11.2017  |

Measurement Procedure Used:


| APPLICABLE STANDARDS   |             |
|--|-------------|
| STANDARD   | TEST RESULT |
| FCC 47 CFR Part 2, Subpart J<br>FCC 47 CFR Part 15, Subpart C<br>IC RSS-GEN, Issue4, November 2014<br>IC RSS-247 Issue2, February 2017 | PASS        |

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2, Part 15.247, IC RSS-247 IC RSS-GEN.

The test results of this report relate only to the tested sample identified in this report.

Date of Test : 23.10.2017 - 02.11.2017

Prepared by : Yaping Shen  
Yaping Shen /Editor

Reviewer : Joe Xia   
Joe Xia /Supervisor

Approve & Authorized Signer : Lisa Wang  
Lisa Wang/Manager

## 2 EUT TECHNICAL DESCRIPTION

The EUT is a Video Monitor with Adjustable Lens (Baby Unit) device, it supports general 2.4GHz wireless technology.

According to the declaration of the applicant, the electrical circuit design, PCB layout and construction design are identical for all models, only the model number, amount of baby unit and color of enclosure are different, see below table for details:

| Model No.    | FCC ID        | IC             | HVIN        | Amount of Baby Unit |
|--------------|---------------|----------------|-------------|---------------------|
| VM2211 BU    | EW780-1318-00 | 1135B-80131800 | 35-200930BU | 1 x baby unit       |
| VM2251 BU    | EW780-1318-00 | 1135B-80131800 | 35-200930BU | 1 x baby unit       |
| VM2251-2 BU  | EW780-1318-00 | 1135B-80131800 | 35-200930BU | 2 x baby unit       |
| VM2x51-ab BU | EW780-1318-00 | N/A            | N/A         | a x baby unit       |

Remark: Test Model: VM2251 BU

x=any alphanumeric character is presenting different type packaging.  
a=any alphanumeric character or blank is presenting number of parent unit.  
b=any alphanumeric character or blank is presenting color of enclosure.

| Characteristics               | Description   |
|-------------------------------|---|
| Device Type                   | FHSS  |
| Modulation:                   | FSK   |
| Operating Frequency Range(s): | 2407.500 - 2475.000 MHz   |
| Number of Channels:           | 21 channels   |
| Channel Spacing               | 3.375 MHz   |
| Transmit Power Max:           | 15.115 dBm  |
| Antenna Type                  | Integral Antenna  |
| Antenna Gain                  | 0 dBi   |
| Operating Voltage             | DC 6.0V 400mA input via AC/DC adapter   |
| AC/DC Adapter #1              | Model: S003AKU0600040 (TenPao)<br>Input: AC 100-120V / 60Hz, 150mA<br>Output: DC 6.0V@400mA |
| AC/DC Adapter #2              | Model: VT05UUS06040 (VTech)<br>Input: AC 100-120V / 60Hz, 150mA<br>Output: DC 6.0V@400mA    |
| AC/DC Adapter #3              | Model: CS3E060040LU (CSEC)<br>Input: AC 100-120V / 60Hz, 200mA<br>Output: DC 6.0V@400mA     |

**Note:** for more details, please refer to the User's manual of the EUT.

### 3 SUMMARY OF TEST RESULT

| FCC/IC Part Clause   | Test Parameter                                     | Verdict |
|--|--|---------|
| FCC 15.247(a)(1)<br>RSS-247.5.1(a)   | 20 dB Bandwidth                                    | PASS    |
| FCC 15.247(a)(1)<br>RSS-247.5.1(b)   | Carrier Frequency Separation                       | PASS    |
| FCC 15.247(a)(1)(iii)<br>RSS-247.5.1(d)  | Number of Hopping Frequencies                      | PASS    |
| FCC 15.247(a)(1)<br>RSS-247.5.4(b)   | Average Time of Occupancy (Dwell Time)             | PASS    |
| FCC 15.247(b)1<br>RSS-247.5.4(b)   | Maximum Peak Conducted Output Power and EIRP Power | PASS    |
| FCC 15.247(d)<br>RSS-247 5.5   | Conducted Spurious Emissions                       | PASS    |
| FCC Part 15.247(d)<br>& FCC Part 15.209 &<br>FCC Part 15.205<br>RSS-247 Clause 3.3 | Radiated Spurious Emissions                        | PASS    |
| FCC 15.207<br>RSS-Gen 8.8  | Conducted Emission                                 | PASS    |
| FCC 15.203<br>RSS-Gen 6.7  | Antenna Application                                | PASS    |
| RSS-Gen.6.6  | 99% Occupied Bandwidth                             | PASS    |
| NOTE1: N/A (Not Applicable)  |  |         |

## 4 TEST METHODOLOGY

### 4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards:  
 FCC 47 CFR Part 2, Subpart J  
 FCC 47 CFR Part 15, Subpart C  
 ANSI C63.10  
 DA 00-705  
 IC RSS-Gen, ISSUE 4 November 2014  
 IC RSS-247, ISSUE 2 February 2017.

### 4.2 MEASUREMENT EQUIPMENT USED

#### 4.2.1 Conducted Emission Test Equipment

| EQUIPMENT TYPE     | MFR             | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  |
|--------------------|-----------------|--------------|---------------|------------|
| Test Receiver      | Rohde & Schwarz | ESCS30       | 828985/018    | 05/20/2017 |
| L.I.S.N.           | Schwarzbeck     | NNLK8129     | 8129203       | 05/20/2017 |
| 50Ω Coaxial Switch | Anritsu         | MP59B        | M20531        | N/A        |
| Pulse Limiter      | Rohde & Schwarz | ESH3-Z2      | 100006        | 05/21/2017 |
| Voltage Probe      | Rohde & Schwarz | TK9416       | N/A           | 05/21/2017 |
| I.S.N              | Rohde & Schwarz | ENY22        | 1109.9508.02  | 05/21/2017 |

#### 4.2.2 Radiated Emission Test Equipment

| EQUIPMENT TYPE    | MFR             | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  |
|-------------------|-----------------|--------------|---------------|------------|
| EMI Test Receiver | Rohde & Schwarz | ESU          | 1302.6005.26  | 05/21/2017 |
| Pre-Amplifier     | HP              | 8447D        | 2944A07999    | 05/20/2017 |
| Bilog Antenna     | Schwarzbeck     | VULB9163     | 142           | 05/20/2017 |
| Loop Antenna      | ARA             | PLA-1030/B   | 1029          | 05/21/2017 |
| Horn Antenna      | Schwarzbeck     | BBHA 9170    | BBHA9170399   | 05/21/2017 |
| Horn Antenna      | Schwarzbeck     | BBHA 9120    | D143          | 05/20/2017 |
| Cable             | Schwarzbeck     | AK9513       | ACRX1         | 05/21/2017 |
| Cable             | Rosenberger     | N/A          | FP2RX2        | 05/21/2017 |
| Cable             | Schwarzbeck     | AK9513       | CRPX1         | 05/21/2017 |
| Cable             | Schwarzbeck     | AK9513       | CRRX2         | 05/21/2017 |

#### 4.2.3 Radio Frequency Test Equipment

| EQUIPMENT TYPE    | MFR     | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  |
|-------------------|---------|--------------|---------------|------------|
| Spectrum Analyzer | Agilent | E4407B       | 88156318      | 05/20/2017 |
| Power meter       | Anritsu | ML2495A      | 0824006       | 05/20/2017 |
| Power sensor      | Anritsu | MA2411B      | 0738172       | 05/20/2017 |
| Spectrum Analyzer | Agilent | N9010A       | My53470879    | 05/20/2017 |

**Remark:** Each piece of equipment is scheduled for calibration once a year.

**4.3 DESCRIPTION OF TEST MODES**

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Frequency and Channel list:

| RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) |
|------------|-----------------|------------|-----------------|------------|-----------------|
| 01         | 2407.500        | 08         | 2431.125        | 15         | 2454.750        |
| 02         | 2410.875        | 09         | 2434.500        | 16         | 2458.125        |
| 03         | 2414.250        | 10         | 2437.875        | 17         | 2461.500        |
| 04         | 2417.625        | 11         | 2441.250        | 18         | 2464.875        |
| 05         | 2421.000        | 12         | 2444.625        | 19         | 2468.250        |
| 06         | 2424.375        | 13         | 2448.000        | 20         | 2471.625        |
| 07         | 2427.750        | 14         | 2451.375        | 21         | 2475.000        |

Test Frequency and channel:

| Lowest Frequency |                 | Middle Frequency |                 | Highest Frequency |                 |
|------------------|-----------------|------------------|-----------------|-------------------|-----------------|
| Channel          | Frequency (MHz) | Channel          | Frequency (MHz) | Channel           | Frequency (MHz) |
| 01               | 2407.500        | 11               | 2441.250        | 21                | 2475.000        |

Frequency Hopping Information

| Technical Specification  | Description   |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------------------|---|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Hopping Sequence         | <p>The 21 channel frequencies are mapped into 64 locations. These 64 locations are divided into 16 groups (from 1 to 16). Each group has 4 numbers from A to D. Below is the number of each location.</p> <table border="1"> <tr><td>1A</td><td>1B</td><td>1C</td><td>1D</td></tr> <tr><td>2A</td><td>2B</td><td>2C</td><td>2D</td></tr> <tr><td>3A</td><td>3B</td><td>3C</td><td>3D</td></tr> <tr><td>4A</td><td>4B</td><td>4C</td><td>4D</td></tr> <tr><td>5A</td><td>5B</td><td>5C</td><td>5D</td></tr> <tr><td>6A</td><td>6B</td><td>6C</td><td>6D</td></tr> <tr><td>7A</td><td>7B</td><td>7C</td><td>7D</td></tr> <tr><td>8A</td><td>8B</td><td>8C</td><td>8D</td></tr> <tr><td>9A</td><td>9B</td><td>9C</td><td>9D</td></tr> <tr><td>10A</td><td>10B</td><td>10C</td><td>10D</td></tr> <tr><td>11A</td><td>11B</td><td>11C</td><td>11D</td></tr> <tr><td>12A</td><td>12B</td><td>12C</td><td>12D</td></tr> <tr><td>13A</td><td>13B</td><td>13C</td><td>13D</td></tr> <tr><td>14A</td><td>14B</td><td>14C</td><td>14D</td></tr> <tr><td>15A</td><td>15B</td><td>15C</td><td>15D</td></tr> <tr><td>16A</td><td>16B</td><td>16C</td><td>16D</td></tr> </table> <p>Each location has its own correspondence frequency, below is the mapping table of correspondence frequencies vs locations.</p> <p>1A=2407.500MHZ, 1B=2461.500MHZ, 1C=2448.000MHZ, 1D=2434.500MHZ,<br/>                 2A=2410.875MHZ, 2B=2464.875MHZ, 2C=2451.375MHZ, 2D=2437.875MHZ,<br/>                 3A=2414.250MHZ, 3B=2468.250MHZ, 3C=2454.750MHZ, 3D=2441.250MHZ,<br/>                 4A=2417.625MHZ, 4B=2471.625MHZ, 4C=2458.125MHZ, 4D=2444.625MHZ,<br/>                 5A=2621.000MHZ, 5B=2407.500MHZ, 5C=2461.500MHZ, 5D=2448.000MHZ,<br/>                 6A=2424.375MHZ, 6B=2410.875MHZ, 6C=2464.875MHZ, 6D=2451.375MHZ,<br/>                 7A=2427.750MHZ, 7B=2414.250MHZ, 7C=2468.250MHZ, 7D=2454.750MHZ,<br/>                 8A=2431.125MHZ, 8B=2417.625MHZ, 8C=2471.625MHZ, 8D=2458.125MHZ,<br/>                 9A=2434.500MHZ, 9B=2621.000MHZ, 9C=2407.500MHZ, 9D=2461.500MHZ,<br/>                 10A=2437.875MHZ, 10B=2424.375MHZ, 10C=2410.875MHZ, 10D=2464.875MHZ,<br/>                 11A=2441.250MHZ, 11B=2427.750MHZ, 11C=2414.250MHZ, 11D=2468.250MHZ,<br/>                 12A=2444.625MHZ, 12B=2431.125MHZ, 12C=2417.625MHZ, 12D=2471.625MHZ,<br/>                 13A=2448.000MHZ, 13B=2434.500MHZ, 13C=2621.000MHZ, 13D=2407.500MHZ,<br/>                 14A=2451.375MHZ, 14B=2437.875MHZ, 14C=2424.375MHZ, 14B=2410.875MHZ,<br/>                 15A=2454.750MHZ, 15B=2441.250MHZ, 15C=2427.750MHZ, 15D=2414.250MHZ,<br/>                 16A=2458.125MHZ, 16B=2444.625MHZ, 16C=2431.125MHZ, 16D=2475.000MHZ</p> <p>Hopping Sequence:</p> <p>There are 4 hopping sequences as below.<br/>                 12A-1A-2A-10A-4A-13A-11A-3A-6A-14A-8A-5A-15A-7A-9A-16A-<br/>                 12B-1B-2B-10B-4B-13B-11B-3B-6B-14B-8B-5B-15B-7B-9B-16B-<br/>                 12C-1C-2C-10C-4C-13C-11C-3C-6C-14C-8C-5C-15C-7C-9C-16C-<br/>                 12D-1D-2D-10D-4D-13D-11D-3D-6D-14D-8D-5D-15D-7D-9D-16D-</p> <p>These 4 hopping sequences will be used alternatively.</p> | 1A  | 1B  | 1C | 1D | 2A | 2B | 2C | 2D | 3A | 3B | 3C | 3D | 4A | 4B | 4C | 4D | 5A | 5B | 5C | 5D | 6A | 6B | 6C | 6D | 7A | 7B | 7C | 7D | 8A | 8B | 8C | 8D | 9A | 9B | 9C | 9D | 10A | 10B | 10C | 10D | 11A | 11B | 11C | 11D | 12A | 12B | 12C | 12D | 13A | 13B | 13C | 13D | 14A | 14B | 14C | 14D | 15A | 15B | 15C | 15D | 16A | 16B | 16C | 16D |
| 1A                       | 1B  | 1C  | 1D  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 2A                       | 2B  | 2C  | 2D  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 3A                       | 3B  | 3C  | 3D  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 4A                       | 4B  | 4C  | 4D  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 5A                       | 5B  | 5C  | 5D  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 6A                       | 6B  | 6C  | 6D  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 7A                       | 7B  | 7C  | 7D  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 8A                       | 8B  | 8C  | 8D  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 9A                       | 9B  | 9C  | 9D  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 10A                      | 10B   | 10C | 10D |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 11A                      | 11B   | 11C | 11D |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 12A                      | 12B   | 12C | 12D |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 13A                      | 13B   | 13C | 13D |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 14A                      | 14B   | 14C | 14D |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 15A                      | 15B   | 15C | 15D |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 16A                      | 16B   | 16C | 16D |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Receiver input bandwidth | <p>The receiver bandwidth is equal to the transmitted signal bandwidth. The receiver IF bandwidth is 4.5MHz. When the system is set at receiver mode, the VCO frequency will automatically be set at the desired frequency – 4.5MHz (RX VCO frequency = RX VCO frequency – 4.5MHz). When the system is set at TX mode, the VCO frequency will be automatically set at the desired frequency (TX VCO frequency).</p> <p>As the transmitter (BU) will generate the hopping sequence and send this information to the associated receiver (PU). The receiver will shift frequency according to this information. So the frequency channels of the system can be synchronized.</p>  |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |



## 5 FACILITIES AND ACCREDITATIONS

### 5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

Bldg 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

### 5.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

- EMC Lab.
- : Accredited by CNAS, 2016.10.24  
The certificate is valid until 2022.10.28  
The Laboratory has been assessed and proved to be in compliance with CNAS-CL01: 2006(identical to ISO/IEC17025: 2005)  
The Certificate Registration Number is L2291
  - : Accredited by TUV Rheinland Shenzhen, 2010.5.25  
The Laboratory has been assessed according to the requirements ISO/IEC 17025.
  - : Accredited by FCC  
Designation Number: CN1204  
Test Firm Registration Number: 882943.
  - : Accredited by Industry Canada, November 24, 2015  
The Certificate Registration Number is 4480A-2

## 6 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

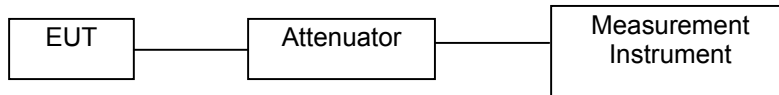
| Parameter                      | Uncertainty               |
|--------------------------------|---------------------------|
| Radio Frequency                | $\pm 1 \times 10^{-5}$    |
| Maximum Peak Output Power Test | $\pm 1.0\text{dB}$        |
| Conducted Emissions Test       | $\pm 2.0\text{dB}$        |
| Radiated Emission Test         | $\pm 2.0\text{dB}$        |
| Occupied Bandwidth Test        | $\pm 1.0\text{dB}$        |
| Band Edge Test                 | $\pm 3\text{dB}$          |
| All emission, radiated         | $\pm 3\text{dB}$          |
| Antenna Port Emission          | $\pm 3\text{dB}$          |
| Temperature                    | $\pm 0.5^{\circ}\text{C}$ |
| Humidity                       | $\pm 3\%$                 |

Measurement Uncertainty for a level of Confidence of 95%

## 7 SETUP OF EQUIPMENT UNDER TEST

### 7.1 RADIO FREQUENCY TEST SETUP 1

The EUT component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



### 7.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

Above 30MHz:

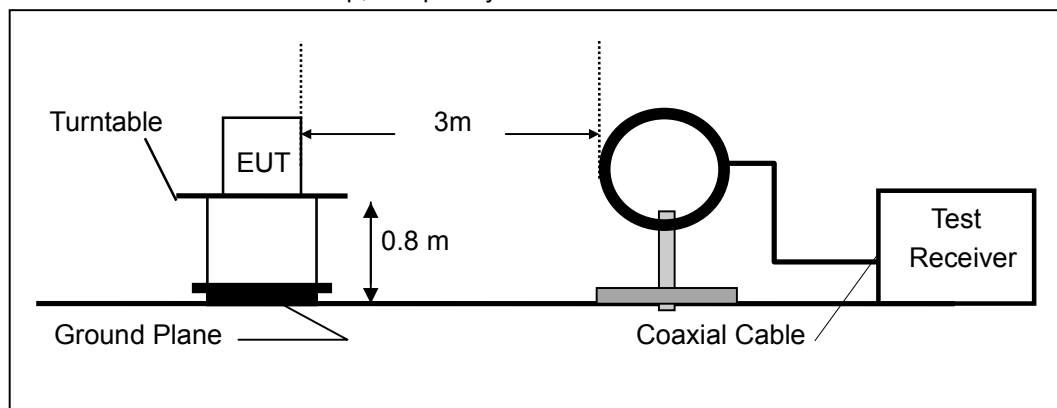
The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Above 1GHz:

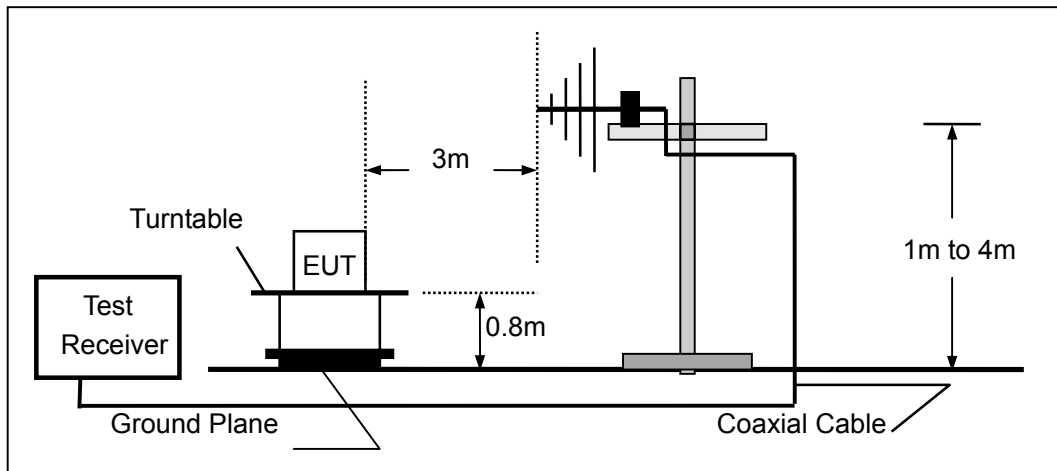
(Note: the FCC's permission to use 1.5 m as an alternative per TCBC Conf call of Dec. 2, 2014.)

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

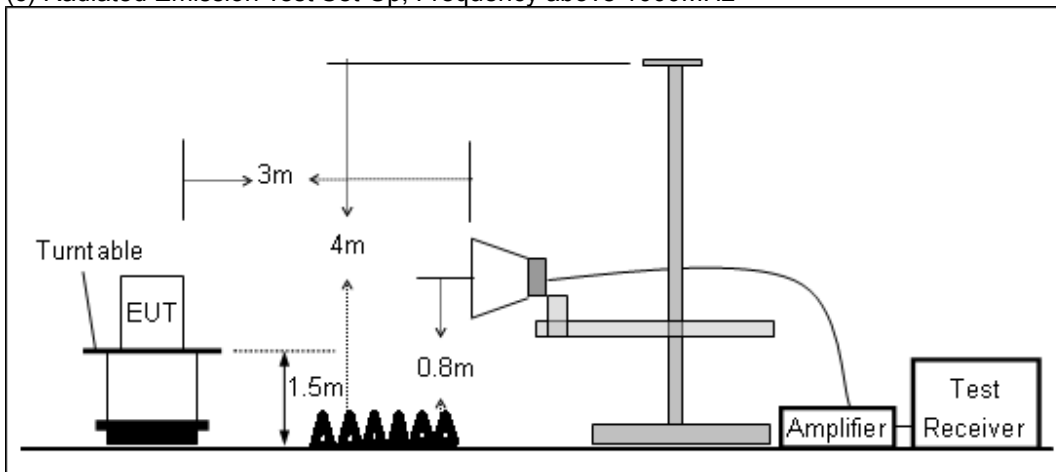
#### (a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz

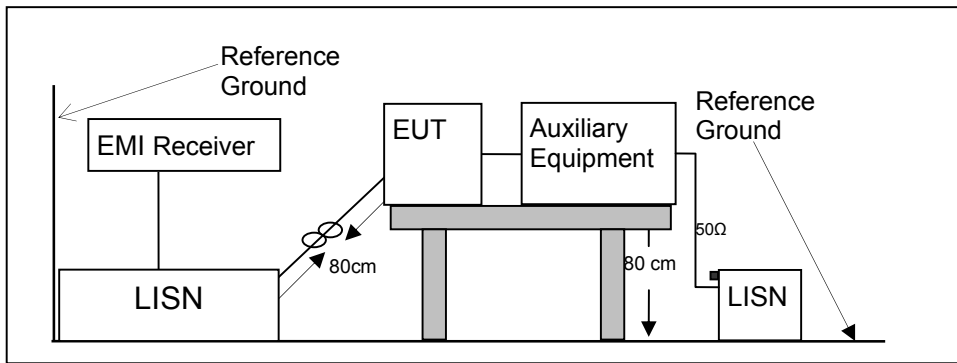


**7.3 CONDUCTED EMISSION TEST SETUP**

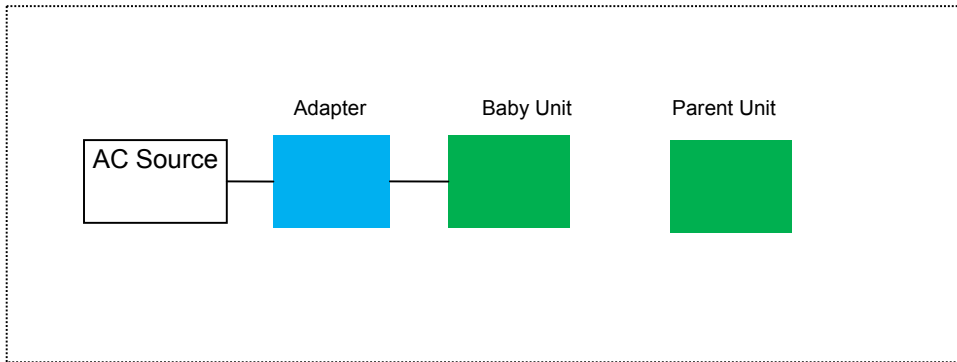
The mains cable of the EUT (Perfect Share Mini) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.8 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



**7.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM**



**7.5 SUPPORT EQUIPMENT**

| Item | Equipment | Mfr/Brand | Model/Type No. | S/N | Note |
|------|-----------|-----------|----------------|-----|------|
| N/A  | N/A       | N/A       | N/A            | N/A | N/A  |

**Notes:**

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

## 8 TEST REQUIREMENTS

### 8.1 20DB BANDWIDTH

#### 8.1.1 Applicable Standard

According to FCC Part 15.247(a)(1) and IC RSS-247.5.1(a)

#### 8.1.2 Conformance Limit

No limit requirement.

#### 8.1.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

#### 8.1.4 Test Procedure

The EUT was operating in mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 100 kHz.

Set the video bandwidth (VBW) =300 kHz.

Set Span= approximately 2 to 3 times the 20 dB bandwidth

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the markerdelta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission.

If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation.

Measure and record the results in the test report.

### Test Results

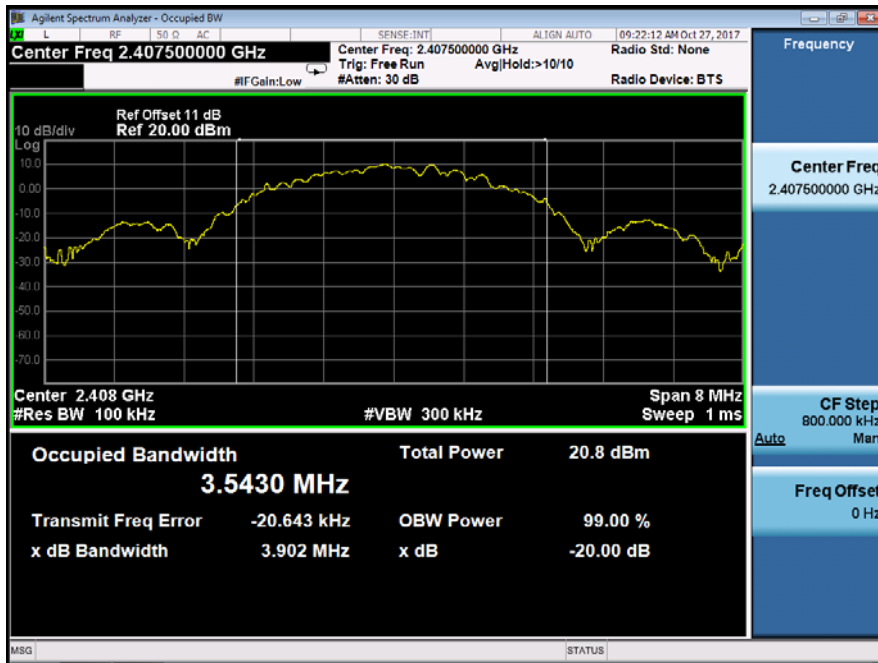
All Adapter have been tested, and the worst result(Adapter 1) was report as below:

|              |       |            |                  |
|--------------|-------|------------|------------------|
| Temperature: | 24 °C | Test Date: | October 27, 2017 |
| Humidity:    | 53 %  | Test By:   | King Kong        |

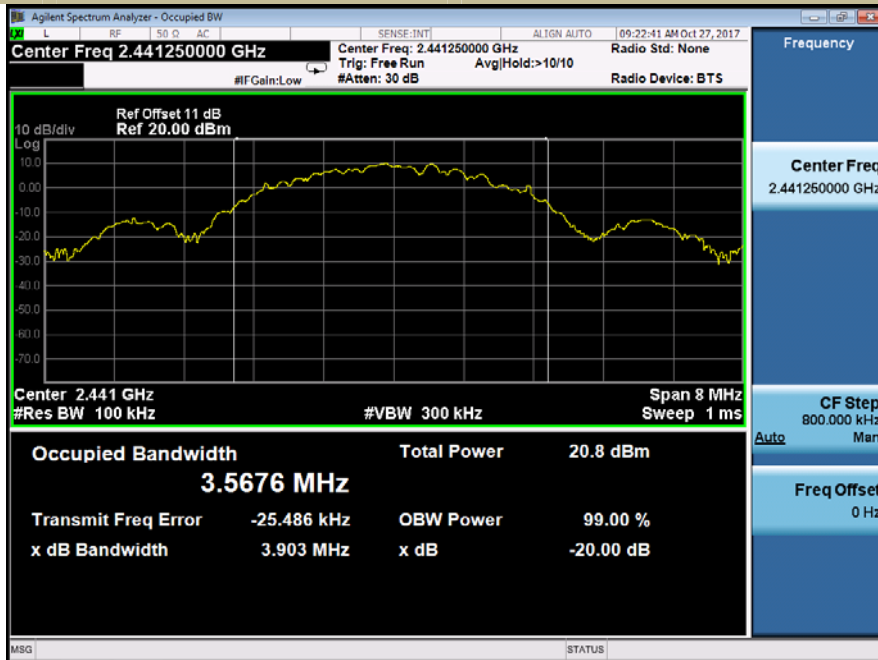
| Modulation Mode | Channel Number | Channel Frequency (MHz) | 20dB Bandwidth (kHz) | Limit (kHz) | Verdict |
|-----------------|----------------|-------------------------|----------------------|-------------|---------|
| FSK             | 01             | 2407.500                | 3902                 | N/A         | PASS    |
|                 | 11             | 2441.250                | 3903                 | N/A         | PASS    |
|                 | 21             | 2475.000                | 3659                 | N/A         | PASS    |

Note: N/A (Not Applicable)

Test Model      20dB Bandwidth  
Channel 0: 2407.500MHz      FSK Modulation

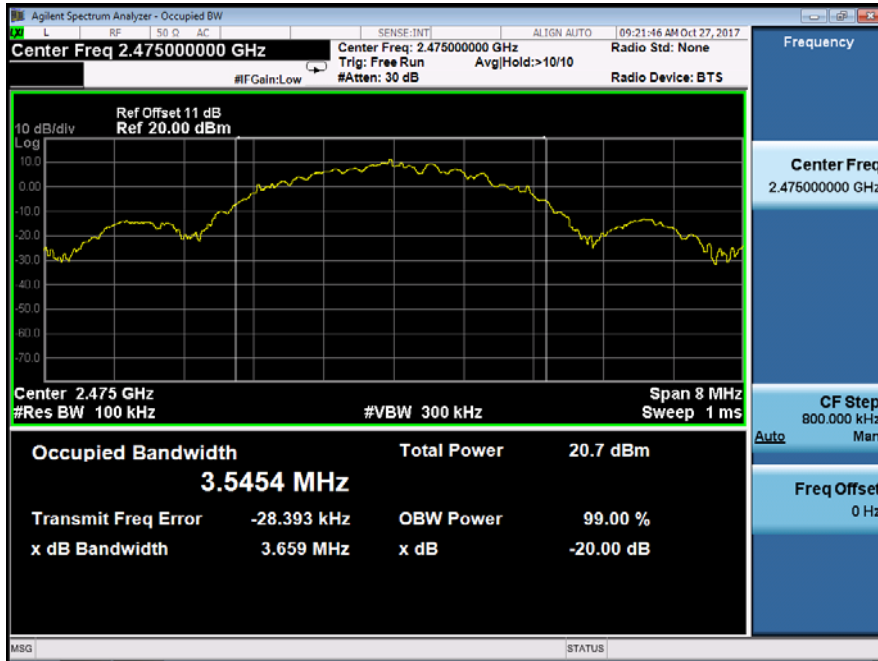


Test Model      20dB Bandwidth  
Channel 11: 2441.250MHz      FSK Modulation





|            |   |                |
|------------|---|----------------|
| Test Model | 20dB Bandwidth<br>Channel 21: 2475.000MHz | FSK Modulation |
|------------|---|----------------|



**8.2 99%BANDWIDTH**

**8.2.1 Applicable Standard**

According to IC RSS-Gen.6.6

**8.2.2 Conformance Limit**

No limit requirement.

**8.2.3 Test Configuration**

Test according to clause 7.1 radio frequency test setup 1

**8.2.4 Test Procedure**

The EUT was operating in fixed frequency mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 1%-5% OBW

Set the video bandwidth (VBW)  $\geq 100\text{kHz}$ .

Set Span= approximately 2 to 3 times the 20 dB bandwidth

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission.

If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation.

Measure and record the results in the test report.

**Test Results**

All Adapter have been tested, and the worst result(Adapter 1) was report as below:

|              |      |            |                  |
|--------------|------|------------|------------------|
| Temperature: | 24°C | Test Date: | October 27, 2017 |
| Humidity:    | 53 % | Test By:   | KK               |

| Modulation Mode | Channel Number | Channel Frequency (MHz) | 99% Measurement Bandwidth(KHz) | Verdict |
|-----------------|----------------|-------------------------|--------------------------------|---------|
| FSK             | 01             | 2407.500                | 3543.0                         | PASS    |
|                 | 11             | 2441.250                | 3567.6                         | PASS    |
|                 | 21             | 2475.000                | 3545.4                         | PASS    |

Note: Test Plots see the Page 15-16

**8.3 CARRIER FREQUENCY SEPARATION**

**8.3.1 Applicable Standard**

According to FCC Part 15.247(a)(1) and IC RSS-247.5.1(b)

**8.3.2 Conformance Limit**

Frequency hopping systems operating in the 2400-2483.5MHz band shall have hopping channel carrier frequencies separated by a minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater.

In case of an output power less than 125mW, the frequency hopping system may have channels separated by a minimum of 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

**8.3.3 Test Configuration**

Test according to clause 7.1 radio frequency test setup 1

**8.3.4 Test Procedure**

According to FCC Part15.247(a)(1)& According to IC RSS-247.5.1(b)

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

Set the RBW =100kHz.

Set VBW =300kHz.

Set the span = wide enough to capture the peaks of two adjacent channels

Set Sweep time = auto couple.

Set Detector = peak.

Set Trace mode = max hold.

Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section. Submit this plot.

**Test Results**

All Adapter have been tested, and the worst result(Adapter 1) was report as below:

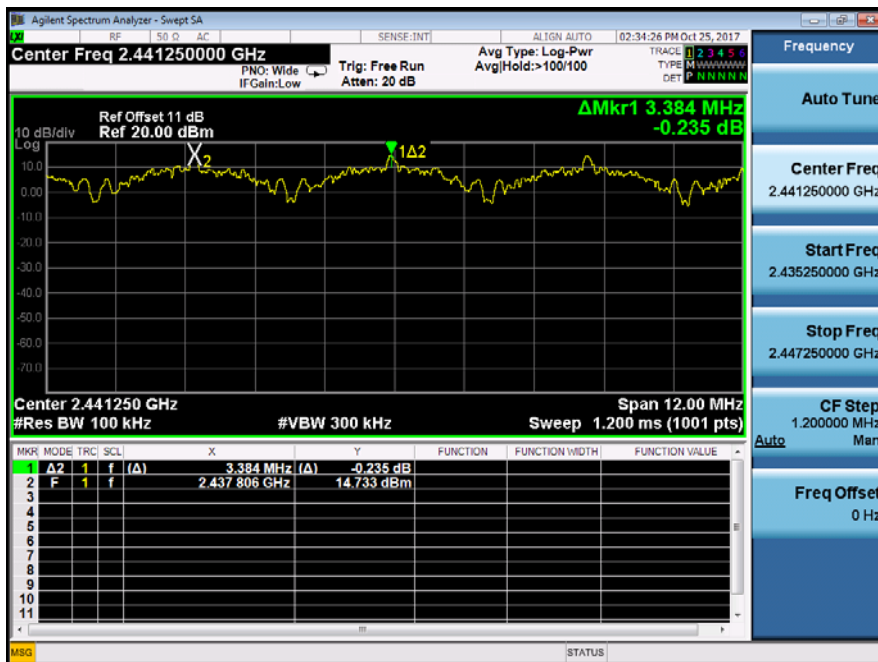
|              |       |            |                  |
|--------------|-------|------------|------------------|
| Temperature: | 24 °C | Test Date: | October 25, 2017 |
| Humidity:    | 53 %  | Test By:   | King Kong        |

| Modulation Mode  | Channel Number | Channel Frequency (MHz) | Channel Separation (MHz) | Limit (MHz) | Verdict |
|--|----------------|-------------------------|--------------------------|-------------|---------|
| FSK  | 01             | 2407.500                | 3.384                    | >2.601      | PASS    |
|  | 11             | 2441.250                | 3.384                    | >2.602      | PASS    |
|  | 21             | 2475.000                | 3.384                    | >2.439      | PASS    |
| Note: Limit = 20dB bandwidth * 2/3, if it is greater than 25kHz and the output power is less than 125mW (21dBm). |                |                         |                          |             |         |

Test Model      Carrier Frequency Separation  
Channel 0: 2407.500MHz      FSK Modulation



Test Model      Carrier Frequency Separation  
Channel 11: 2441.250MHz      FSK Modulation



Test Model      Carrier Frequency Separation  
Channel 21: 2475.000MHz      FSK Modulation



## 8.4 NUMBER OF HOPPING FREQUENCIES

### 8.4.1 Applicable Standard

According to FCC Part 15.247(a)(1)(iii) and RSS-247.5.1(d)

### 8.4.2 Conformance Limit

Frequency hopping systems operating in the 2400-2483.5MHz band shall use at least 15 channels.

### 8.4.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

### 8.4.4 Test Procedure

- According to FCC Part 15.247(a)(1)(iii) and RSS-247.5.1(d)

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

Span = the frequency band of operation (2400-2483.5MHz)

RBW  $\geq$  100KHz

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize. It may prove necessary to break the span up to sections, in order to clearly show all of the hopping frequencies.

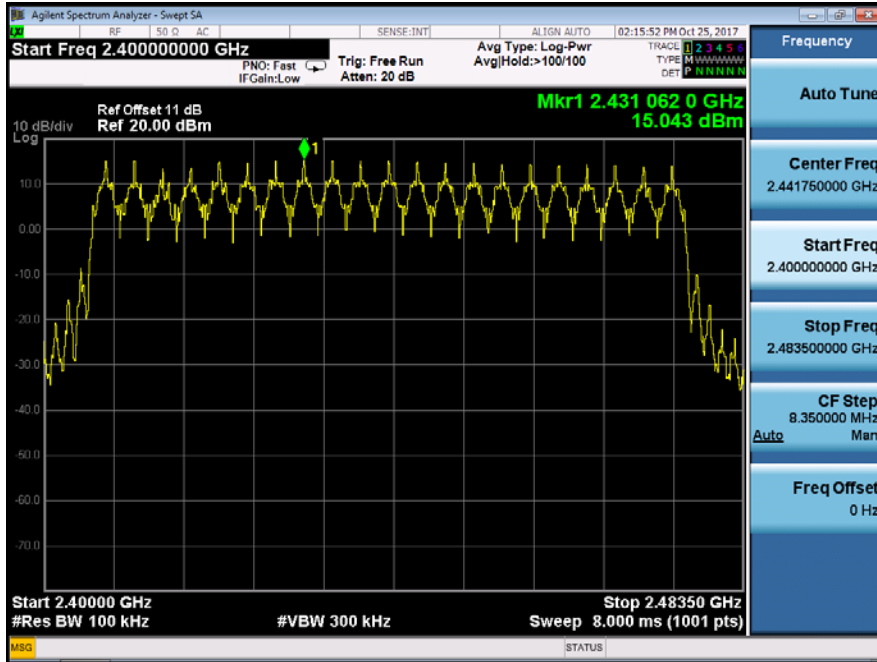
### Test Results

All Adapter have been tested, and the worst result(Adapter 1) was report as below:

|              |       |            |                  |
|--------------|-------|------------|------------------|
| Temperature: | 24 °C | Test Date: | October 25, 2017 |
| Humidity:    | 53 %  | Test By:   | King Kong        |

| Hopping Channel Frequency Range | Quantity of Hopping Channel | Quantity of Hopping Channel limit |
|---------------------------------|-----------------------------|-----------------------------------|
| 2407.500MHz-2475.000MHz         | 21                          | > 15                              |

Test Model      Number Of Hopping Frequencies  
Span: 2400-2483.5MHz



**8.5 AVERAGE TIME OF OCCUPANCY (DWELL TIME)**

**8.5.1 Applicable Standard**

According to FCC Part 15.247(a)(1)(iii) and RSS-247.5.4(b)

**8.5.2 Conformance Limit**

For frequency hopping systems operating in the 2400-2483.5MHz band, the average time of occupancy on any channel shall not be greater than 0.4s within a period of 0.4s multiplied by the number of hopping channels employed.

**8.5.3 Test Configuration**

Test according to clause 7.1 radio frequency test setup 1

**8.5.4 Test Procedure**

- According to FCC Part 15.247(a)(1)(iii) and RSS-247.5.4(b)

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

Span = zero span, centered on a hopping channel

RBW = 1 MHz

VBW ≥ RBW

Sweep = as necessary to capture the entire dwell time per hopping channel

Detector function = peak

Trace = max hold

If possible, use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section.

**8.5.5 Test Results**

All Adapter have been tested, and the worst result(Adapter 1) was report as below:

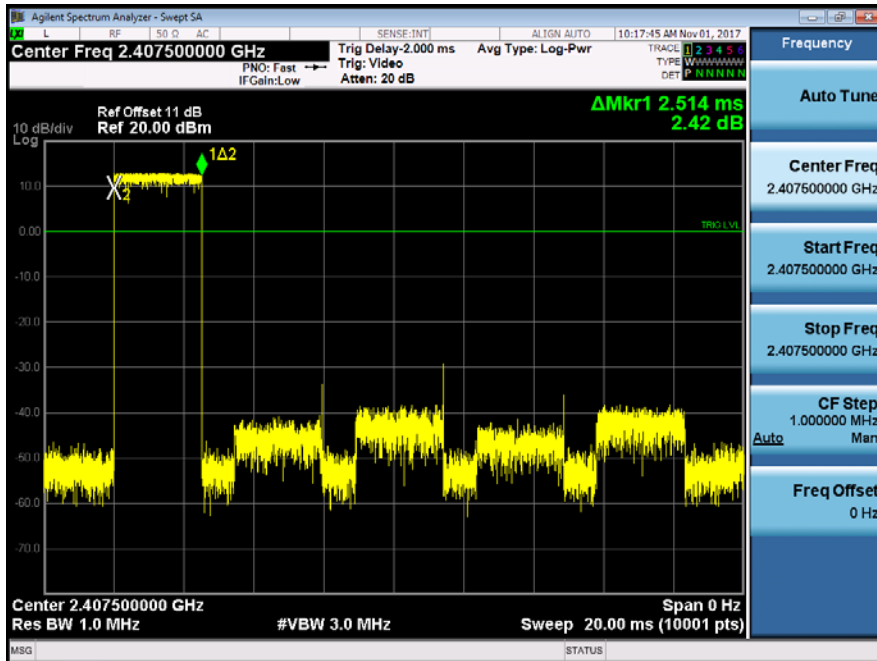
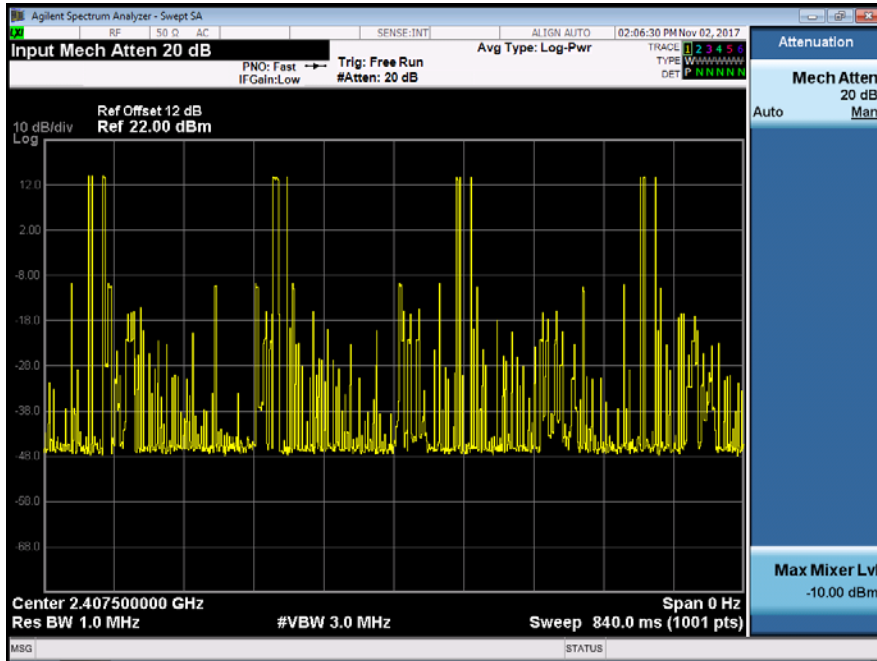
|              |       |            |                   |
|--------------|-------|------------|-------------------|
| Temperature: | 24 °C | Test Date: | November 02, 2017 |
| Humidity:    | 53 %  | Test By:   | King Kong         |

| Modulation Mode | Channel Number | Channel Frequency (MHz) | Pluse width (ms) | Dwell Time (ms) | Limit (ms) | Verdict |
|-----------------|----------------|-------------------------|------------------|-----------------|------------|---------|
| FSK             | 01             | 2407.500                | 2.514            | 201.12          | <400       | PASS    |
|                 | 11             | 2441.250                | 2.512            | 200.96          | <400       | PASS    |
|                 | 21             | 2475.000                | 2.514            | 201.12          | <400       | PASS    |

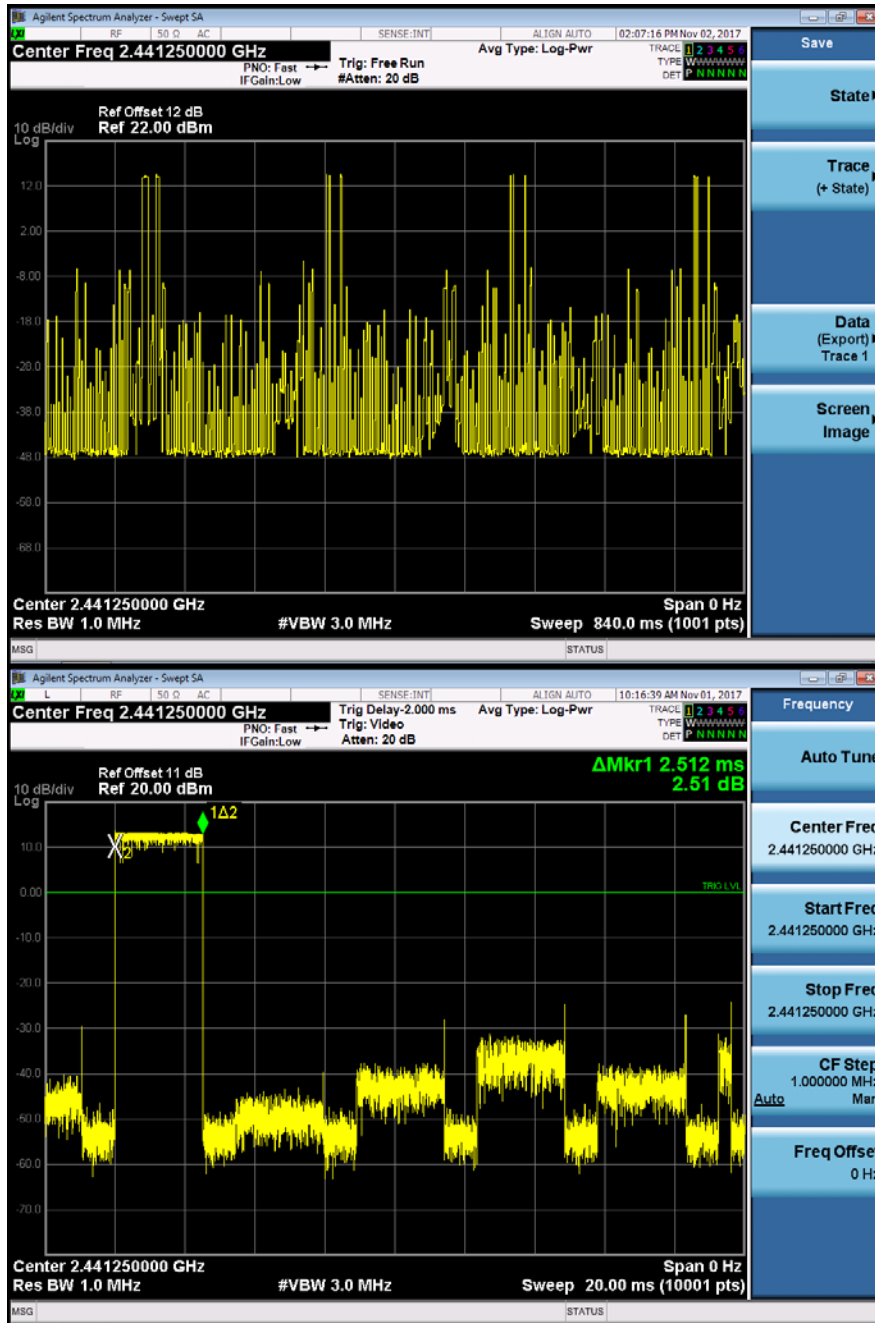
Note: Dwell Time(ms)= Pluse width(ms)\*8\*10  
Period(s)=0.4\* number of hopping channels



Test Model      AVERAGE TIME OF OCCUPANCY  
Channel 0: 2407.500MHz      FSK Modulation



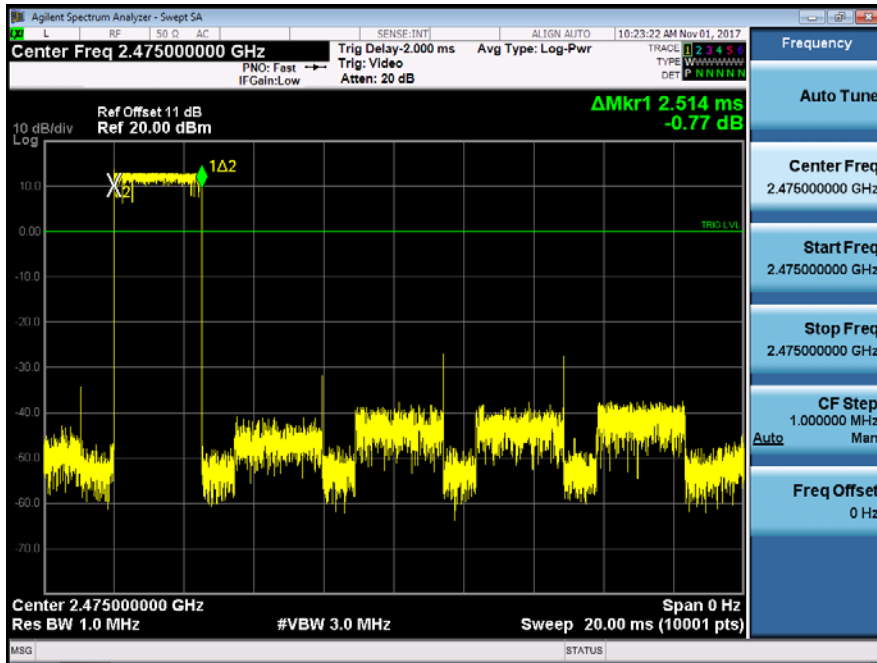
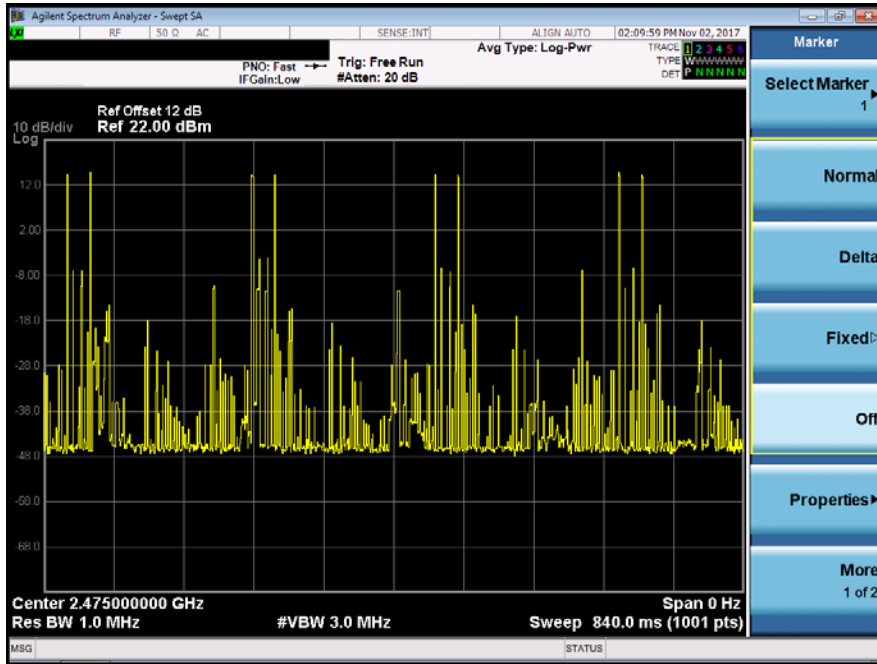
|            |  |
|------------|--|
| Test Model | AVERAGE TIME OF OCCUPANCY              |
|            | Channel 11: 2441.250MHz FSK Modulation |



Test Model

AVERAGE TIME OF OCCUPANCY  
Channel 21: 2475.000MHz

FSK Modulation



**8.6 MAXIMUM PEAK CONDUCTED OUTPUT POWER AND EIRP POWER**

**8.6.1 Applicable Standard**

According to FCC Part 15.247(b)(1) and RSS-247.5.4(b)

**8.6.2 Conformance Limit**

The max For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

**8.6.3 Test Configuration**

Test according to clause 7.1 radio frequency test setup 1

**8.6.4 Test Procedure**

- According to FCC Part15.247(b)(1) and RSS-247.5.4(b)  
As an alternative to a peak power measurement, compliance with the limit can be based on a measurement of the maximum conducted output power.  
Use the following spectrum analyzer settings:  
Set Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel (about 10MHz)  
Set RBW > the 20 dB bandwidth of the emission being measured (about 3MHz)  
Set VBW ≥ RBW  
Set Sweep = auto  
Set Detector function = peak  
Set Trace = max hold  
Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission to determine the peak amplitude level.

**Test Results**

All Adapter have been tested, and the worst result(Adapter 1) was report as below:

|              |       |            |                  |
|--------------|-------|------------|------------------|
| Temperature: | 24 °C | Test Date: | October 26, 2017 |
| Humidity:    | 53 %  | Test By:   | King Kong        |

| Operation Mode | Channel Number | Channel Frequency (MHz) | Max Peak Power (dBm) | Limit (dBm) | Verdict |
|----------------|----------------|-------------------------|----------------------|-------------|---------|
| FSK            | 01             | 2407.500                | 15.115               | 21          | PASS    |
|                | 11             | 2441.250                | 14.606               | 21          | PASS    |
|                | 21             | 2475.000                | 14.556               | 21          | PASS    |
| Note: N/A      |                |                         |                      |             |         |

| Operation Mode                                 | Channel Number | Channel Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Verdict |
|--|----------------|-------------------------|------------|-------------|---------|
| FSK  | 01             | 2407.500                | 15.115     | 36          | PASS    |
|  | 11             | 2441.250                | 14.606     | 36          | PASS    |
|  | 21             | 2475.000                | 14.556     | 36          | PASS    |
| Note: EIRP= Max Peak Power+Antenna Gain (0dBi) |                |                         |            |             |         |

## 8.7 CONDUCTED SUPRIIOUS EMISSION

### 8.7.1 Applicable Standard

According to FCC Part 15.247(d) and IC RSS-247 5.5

### 8.7.2 Conformance Limit

According to FCC Part 15.247(d) and IC RSS-247 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted, provided the transmitter demonstrates compliance with the peak conducted power limits.

### 8.7.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

### 8.7.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

#### ■ Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DSS channel center frequency.

Set Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel.

Set the RBW = 100 kHz. Set the VBW  $\geq 3 \times$  RBW.

Set Detector = peak. Set Sweep time = auto couple.

Set Trace mode = max hold. Allow trace to fully stabilize.

Use the peak marker function to determine the maximum Maximum conduceted level.

Note that the channel found to contain the maximum conduceted level can be used to establish the reference level.

#### ■ Band-edge Compliance of RF Conducted Emissions

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the emission operating on the channel closest to the band-edge, as well as any modulation products which fall outside of the authorized band of operation

Set RBW  $\geq 1\%$  of the span=100kHz Set VBW  $\geq$  RBW

Set Sweep = auto Set Detector function = peak Set Trace = max hold

Allow the trace to stabilize. Set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta

function, then use the marker-to-peak function to move the marker to the peak of the in-band emission.

The marker-delta value now displayed must comply with the limit specified in this Section.

Now, using the same instrument settings, enable the hopping function of the EUT. Allow the trace to stabilize. Follow the same procedure listed above to determine if any spurious emissions caused by the hopping function also comply with the specified limit.

#### ■ Conduceted Spurious RF Conducted Emission

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic.(30MHz to 25GHz). Set RBW = 100 kHz Set VBW  $\geq$  RBW

Set Sweep = auto Set Detector function = peak Set Trace = max hold

Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this Section.

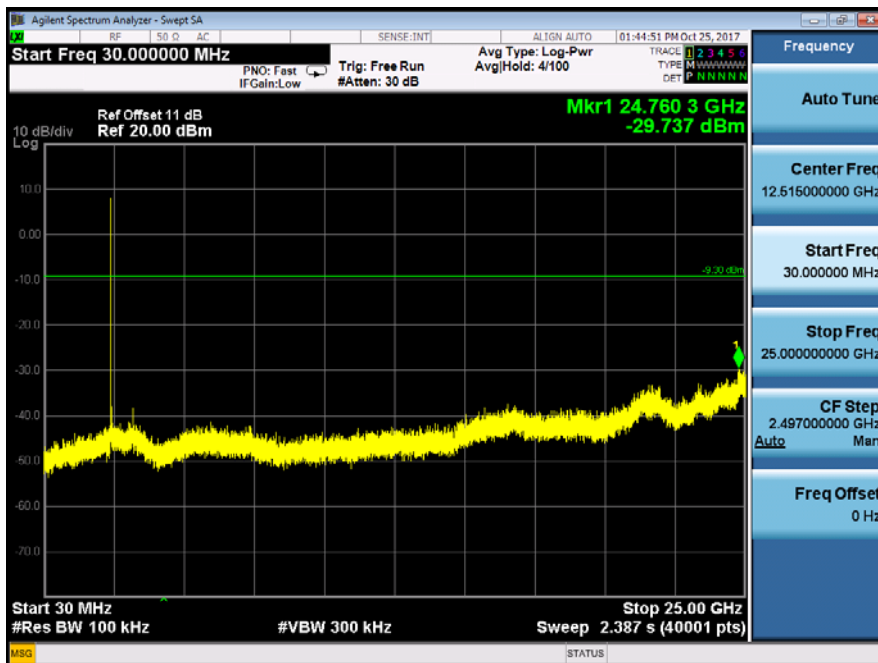
**8.7.5 Test Results**

All Adapter have been tested, and the worst result(Adapter 1) was report as below:

|            |   |                |
|------------|---|----------------|
| Test Model | Maximum Conduced Level RBW=100kHz<br>Channel 0: 2407.500MHz | FSK Modulation |
|------------|---|----------------|



|            |   |                |
|------------|---|----------------|
| Test Model | Conduced Spurious RF Conducted Emission<br>Channel 0: 2407.500MHz | FSK Modulation |
|------------|---|----------------|



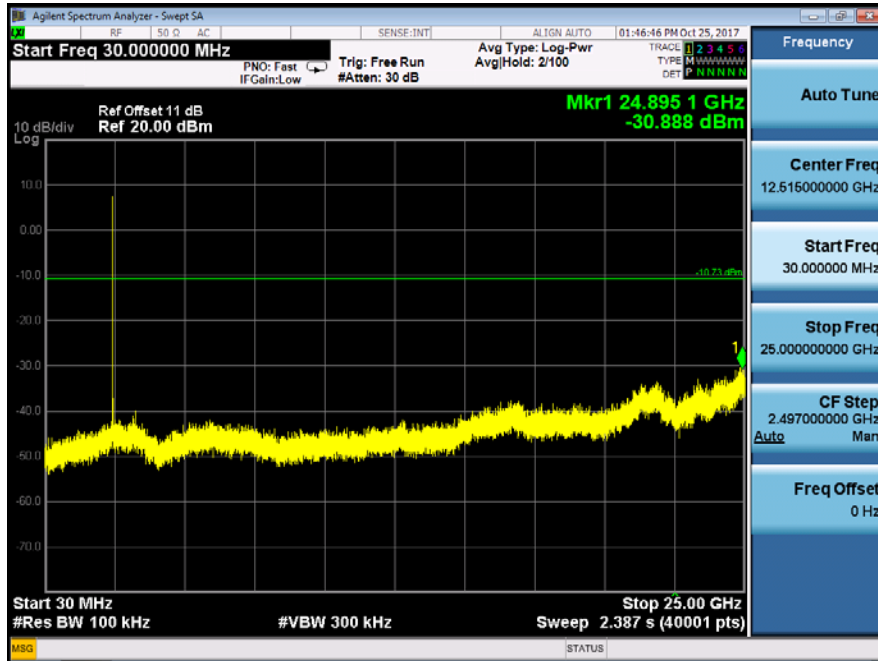
|            |   |                |
|------------|---|----------------|
| Test Model | Band-edge Conducted Emissions<br>Channel 0: 2407.500MHz | FSK Modulation |
|------------|---|----------------|



|            |   |                |
|------------|---|----------------|
| Test Model | Maximum Conducted Level RBW=100kHz<br>Channel 11: 2441.250MHz | FSK Modulation |
|------------|---|----------------|



|            |  |                |
|------------|--|----------------|
| Test Model | Conduceted Spurious RF Conducted Emission<br>Channel 11: 2441.250MHz | FSK Modulation |
|------------|--|----------------|

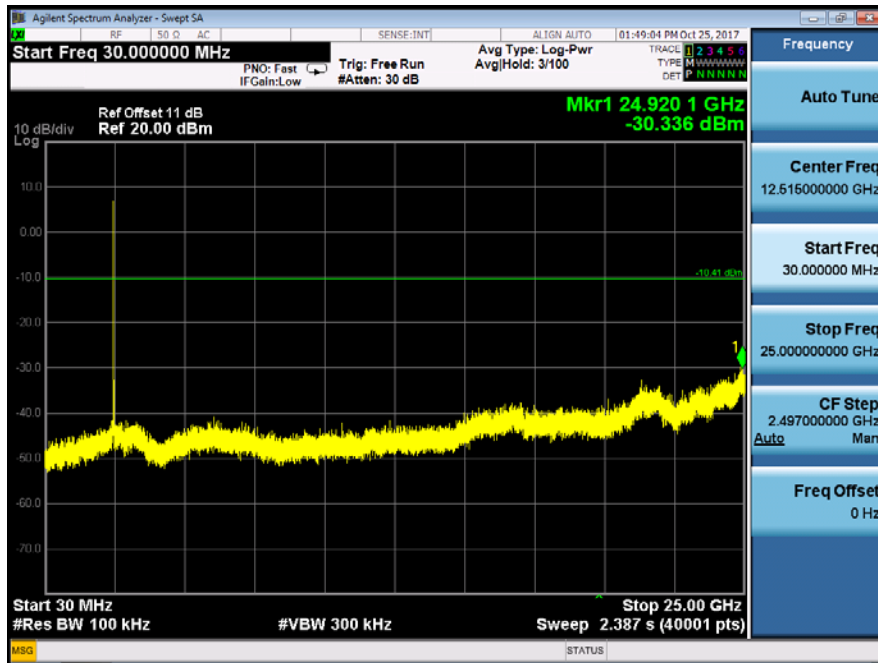


|            |  |                |
|------------|--|----------------|
| Test Model | Maximum Conduceted Level RBW=100kHz<br>Channel 21: 2475.000MHz | FSK Modulation |
|------------|--|----------------|





|            |  |                |
|------------|--|----------------|
| Test Model | Conduceted Spurious RF Conducted Emission<br>Channel 21: 2475.000MHz | FSK Modulation |
|------------|--|----------------|

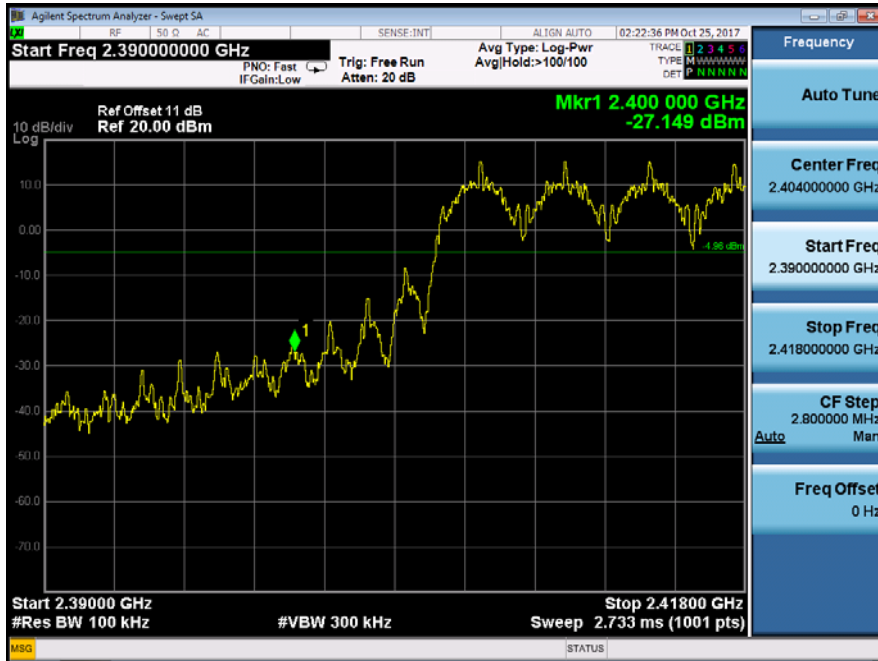


|            |  |                |
|------------|--|----------------|
| Test Model | Band-edge Conducted Emissions<br>Channel 21: 2475.000MHz | FSK Modulation |
|------------|--|----------------|

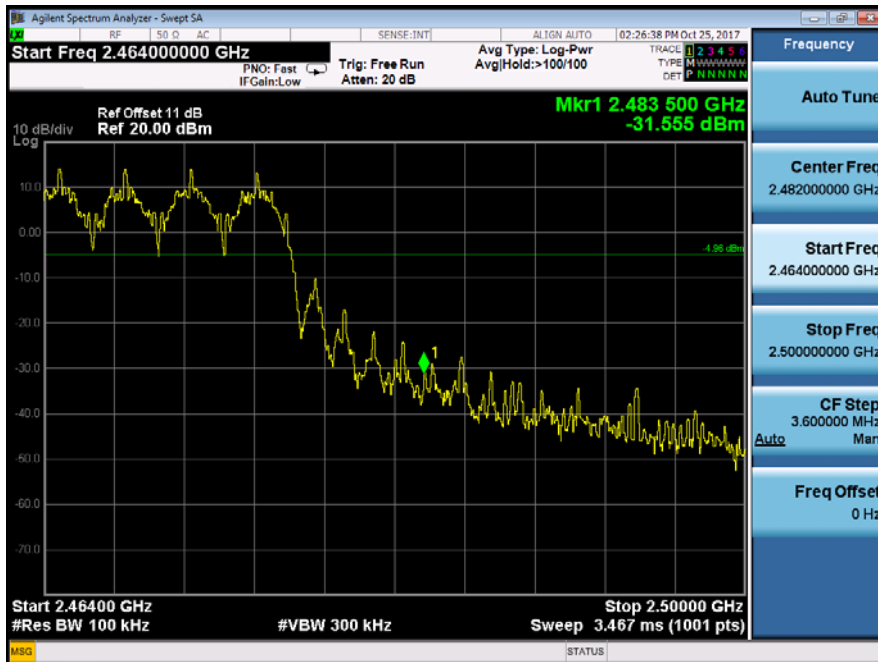




Test Model      Band-edge Conducted Emissions Hopping      FSK Modulation



Test Model      Band-edge Conducted Emissions Hopping      FSK Modulation



## 8.8 RADIATED SPURIOUS EMISSION

### 8.8.1 Applicable Standard

According to FCC Part 15.247(d), 15.209 and RSS-247 Clause 3.3

### 8.8.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).  
According to FCC Part 15.205, Restricted bands

| MHz               | MHz                 | MHz           | GHz         |
|-------------------|---------------------|---------------|-------------|
| 0.090-0.110       | 16.42-16.423        | 399.9-410     | 4.5-5.15    |
| 10.495-0.505      | 16.69475-16.69525   | 608-614       | 5.35-5.46   |
| 2.1735-2.1905     | 16.80425-16.80475   | 960-1240      | 7.25-7.75   |
| 4.125-4.128       | 25.5-25.67          | 1300-1427     | 8.025-8.5   |
| 4.17725-4.17775   | 37.5-38.25          | 1435-1626.5   | 9.0-9.2     |
| 4.20725-4.20775   | 73-74.6             | 1645.5-1646.5 | 9.3-9.5     |
| 6.215-6.218       | 74.8-75.2           | 1660-1710     | 10.6-12.7   |
| 6.26775-6.26825   | 123-138             | 2200-2300     | 14.47-14.5  |
| 8.291-8.294       | 149.9-150.05        | 2310-2390     | 15.35-16.2  |
| 8.362-8.366       | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4   |
| 8.37625-8.38675   | 156.7-156.9         | 2690-2900     | 22.01-23.12 |
| 8.41425-8.41475   | 162.0125-167.17     | 3260-3267     | 23.6-24.0   |
| 12.29-12.293      | 167.72-173.2        | 3332-3339     | 31.2-31.8   |
| 12.51975-12.52025 | 240-285             | 3345.8-3358   | 36.43-36.5  |
| 12.57675-12.57725 | 322-335.4           | 3600-4400     | (2)         |
| 13.36-13.41       |                     |               |             |

According to FCC Part 15.205, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

| Restricted Frequency(MHz) | Field Strength (μV/m) | Field Strength (dBμV/m) | Measurement Distance |
|---------------------------|-----------------------|-------------------------|----------------------|
| 0.009-0.490               | 2400/F(KHz)           | 20 log (uV/m)           | 300                  |
| 0.490-1.705               | 24000/F(KHz)          | 20 log (uV/m)           | 30                   |
| 1.705-30                  | 30                    | 29.5                    | 30                   |
| 30-88                     | 100                   | 40                      | 3                    |
| 88-216                    | 150                   | 43.5                    | 3                    |
| 216-960                   | 200                   | 46                      | 3                    |
| Above 960                 | 500                   | 54                      | 3                    |

### 8.8.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

### 8.8.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

For Above 1GHz:

The EUT was placed on a turn table which is 0.1m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 1GHz:

The EUT was placed on a turn table which is 0.1m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 100 kHz for

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 30MHz:

The EUT was placed on a turn table which is 0.1m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 9kHz

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 150KHz:

The EUT was placed on a turn table which is 0.1m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 200Hz

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a “duty cycle correction factor”, derived from  $20\log(\text{dwell time}/100 \text{ ms})$ , in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

### 8.8.5 Test Results

#### ■ Spurious Emission below 30MHz (9KHz to 30MHz)

|              |         |            |                  |
|--------------|---------|------------|------------------|
| Temperature: | 24 °C   | Test Date: | October 28, 2017 |
| Humidity:    | 53 %    | Test By:   | KK               |
| Test mode:   | TX Mode |            |                  |

| Freq.<br>(MHz) | Ant.Pol.<br>H/V | Emission<br>Level(dBuV/m) |    | Limit 3m(dBuV/m) |    | Over(dB) |    |
|----------------|-----------------|---------------------------|----|------------------|----|----------|----|
|                |                 | PK                        | AV | PK               | AV | PK       | AV |
| --             | --              | --                        | -- | --               | -- | --       | -- |

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =  $40\log(\text{Specific distance}/ \text{test distance})$  ( dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor

■ Spurious Emission Above 1GHz (1GHz to 25GHz)

|              |                |            |                        |
|--------------|----------------|------------|------------------------|
| Temperature: | 24 °C          | Test Date: | October 28, 2017       |
| Humidity:    | 53 %           | Test By:   | King Kong              |
| Test mode:   | FSK Modulation | Frequency: | Channel 0: 2407.500MHz |

| Freq.<br>(MHz) | Ant.Pol.<br>H/V | Emission Level(dBuV/m) |       | Limit 3m(dBuV/m) |       | Over(dB) |        |
|----------------|-----------------|------------------------|-------|------------------|-------|----------|--------|
|                |                 | PK                     | AV    | PK               | AV    | PK       | AV     |
| 15398.83       | V               | 52.86                  | 30.70 | 74.00            | 54.00 | -21.14   | -23.30 |
| 25021.00       | V               | 50.38                  | 34.23 | 74.00            | 54.00 | -23.62   | -19.77 |
| 17038.14       | H               | 53.56                  | 31.60 | 74.00            | 54.00 | -20.44   | -22.40 |
| 25114.50       | H               | 49.92                  | 34.26 | 74.00            | 54.00 | -24.08   | -19.74 |

|              |                |            |                         |
|--------------|----------------|------------|-------------------------|
| Temperature: | 24 °C          | Test Date: | October 28, 2017        |
| Humidity:    | 53 %           | Test By:   | King Kong               |
| Test mode:   | FSK Modulation | Frequency: | Channel 11: 2441.250MHz |

| Freq.<br>(MHz) | Ant.Pol.<br>H/V | Emission Level(dBuV/m) |       | Limit 3m(dBuV/m) |       | Over(dB) |        |
|----------------|-----------------|------------------------|-------|------------------|-------|----------|--------|
|                |                 | PK                     | AV    | PK               | AV    | PK       | AV     |
| 14916.94       | V               | 53.03                  | 31.70 | 74.00            | 54.00 | -20.97   | -22.30 |
| 24613.00       | V               | 51.05                  | 36.23 | 74.00            | 54.00 | -22.95   | -17.77 |
| 14325.57       | H               | 52.90                  | 31.10 | 74.00            | 54.00 | -21.10   | -22.90 |
| 25395.00       | H               | 50.35                  | 34.62 | 74.00            | 54.00 | -23.65   | -19.38 |

|              |                |            |                         |
|--------------|----------------|------------|-------------------------|
| Temperature: | 24 °C          | Test Date: | October 28, 2017        |
| Humidity:    | 53 %           | Test By:   | King Kong               |
| Test mode:   | FSK Modulation | Frequency: | Channel 21: 2475.000MHz |

| Freq.<br>(MHz) | Ant.Pol.<br>H/V | Emission Level(dBuV/m) |       | Limit 3m(dBuV/m) |       | Over(dB) |        |
|----------------|-----------------|------------------------|-------|------------------|-------|----------|--------|
|                |                 | PK                     | AV    | PK               | AV    | PK       | AV     |
| 14873.88       | V               | 52.82                  | 30.50 | 74.00            | 54.00 | -21.18   | -23.50 |
| 24273.00       | V               | 49.69                  | 32.56 | 74.00            | 54.00 | -24.31   | -21.44 |
| 15398.83       | H               | 52.96                  | 30.30 | 74.00            | 54.00 | -21.04   | -23.70 |
| 25743.50       | H               | 50.83                  | 34.26 | 74.00            | 54.00 | -23.17   | -19.74 |

- Note:** (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).  
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.  
(3) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

|              |                |            |                        |
|--------------|----------------|------------|------------------------|
| Temperature: | 24 °C          | Test Date: | October 28, 2017       |
| Humidity:    | 53 %           | Test By:   | King Kong              |
| Test mode:   | FSK Modulation | Frequency: | Channel 0: 2407.500MHz |

| Frequency (MHz) | Polarity H/V | PK(dBuV/m) (VBW=3MHz) | Limit 3m (dBuV/m) | Over(dB) | AV(dBuV/m) (VBW=3MHz) | Limit 3m (dBuV/m) | Over(dB) |
|-----------------|--------------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|
| 2387.48         | H            | 41.37                 | 74.00             | -32.63   | 27.10                 | 54.00             | -26.90   |
| 2389.35         | V            | 44.62                 | 74.00             | -29.38   | 31.30                 | 54.00             | -22.70   |

|              |                |            |                         |
|--------------|----------------|------------|-------------------------|
| Temperature: | 24 °C          | Test Date: | October 28, 2017        |
| Humidity:    | 53 %           | Test By:   | King Kong               |
| Test mode:   | FSK Modulation | Frequency: | Channel 21: 2475.000MHz |

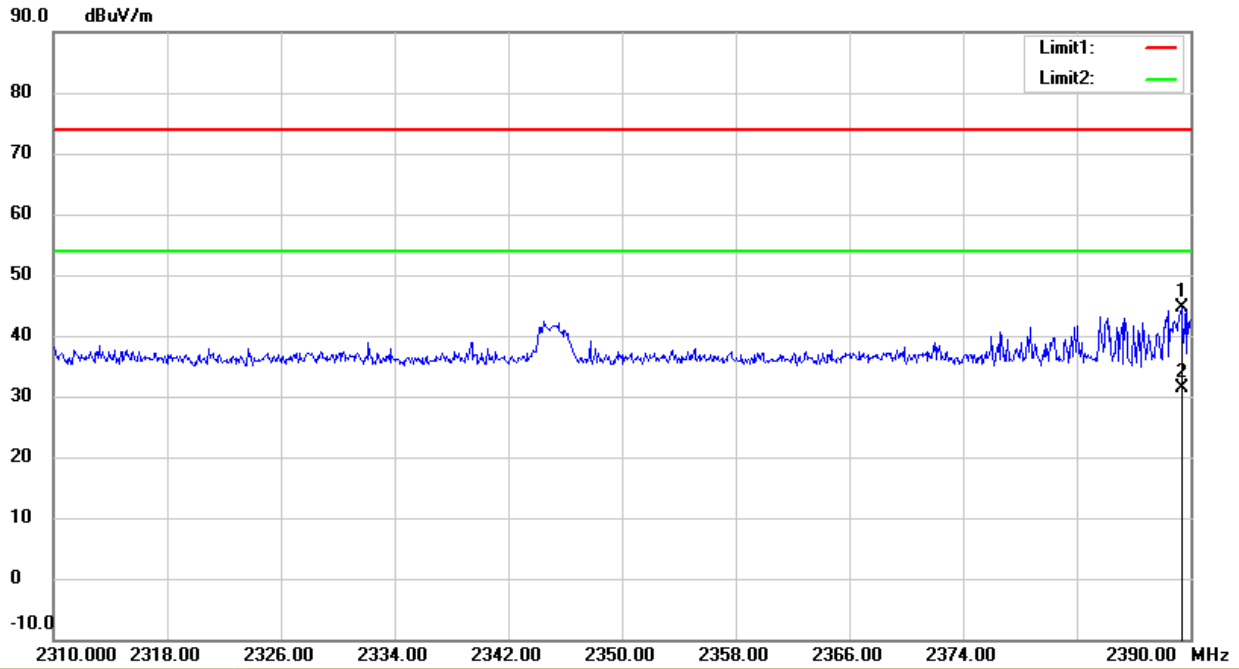
| Frequency (MHz) | Polarity H/V | PK(dBuV/m) (VBW=3MHz) | Limit 3m (dBuV/m) | Over(dB) | AV(dBuV/m) (VBW=3MHz) | Limit 3m (dBuV/m) | Over(dB) |
|-----------------|--------------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|
| 2484.22         | H            | 49.75                 | 74.00             | -24.25   | 38.70                 | 54.00             | -15.30   |
| 2484.09         | V            | 52.24                 | 74.00             | -21.76   | 42.30                 | 54.00             | -11.70   |

|              |                |            |                  |
|--------------|----------------|------------|------------------|
| Temperature: | 24 °C          | Test Date: | October 28, 2017 |
| Humidity:    | 53 %           | Test By:   | KK               |
| Test mode:   | FSK Modulation | Frequency: | Hopping          |

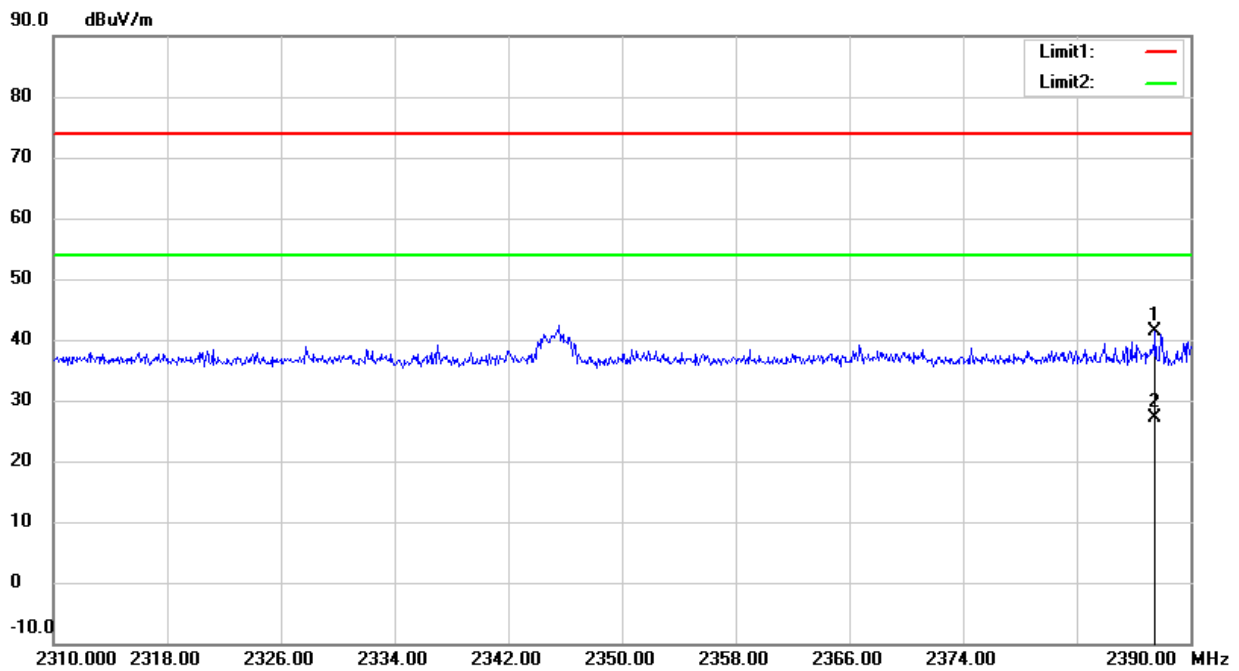
| Frequency (MHz) | Polarity H/V | PK(dBuV/m) (VBW=3MHz) | Limit 3m (dBuV/m) | Over(dB) | AV(dBuV/m) (VBW=3MHz) | Limit 3m (dBuV/m) | Over(dB) |
|-----------------|--------------|-----------------------|-------------------|----------|-----------------------|-------------------|----------|
| 2434.39         | H            | 45.36                 | 74.00             | -28.64   | 30.5                  | 54.00             | -23.50   |
| 2347.24         | V            | 46.41                 | 74.00             | -27.59   | 31.5                  | 54.00             | -22.50   |
| 2483.50         | H            | 49.41                 | 74.00             | -24.59   | 33.2                  | 54.00             | -20.80   |
| 2483.50         | V            | 55.77                 | 74.00             | -18.23   | 40.9                  | 54.00             | -13.10   |

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
  - (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
  - (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

|            |   |                |   |
|------------|---|----------------|---|
| Test Model | Spurious Emission in Restricted Band 2310-2390MHz |                |   |
|            | Channel 0: 2407.500MHz                            | FSK Modulation | H |
|            | Test By: King Kong                                |                |   |

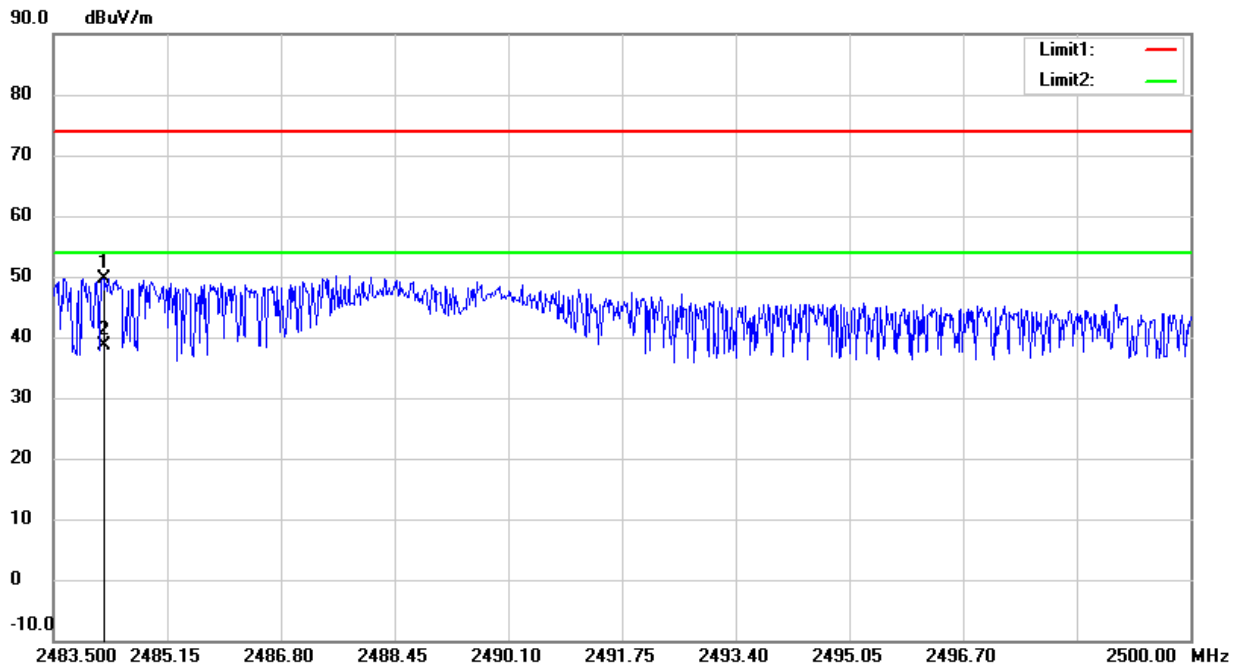


|            |   |                    |   |
|------------|---|--------------------|---|
| Test Model | Spurious Emission in Restricted Band 2310-2390MHz |                    |   |
|            | /v3.0   | FSK Modulation     | V |
|            | Channel 0: 2407.500MHz                            | Test By: King Kong |   |

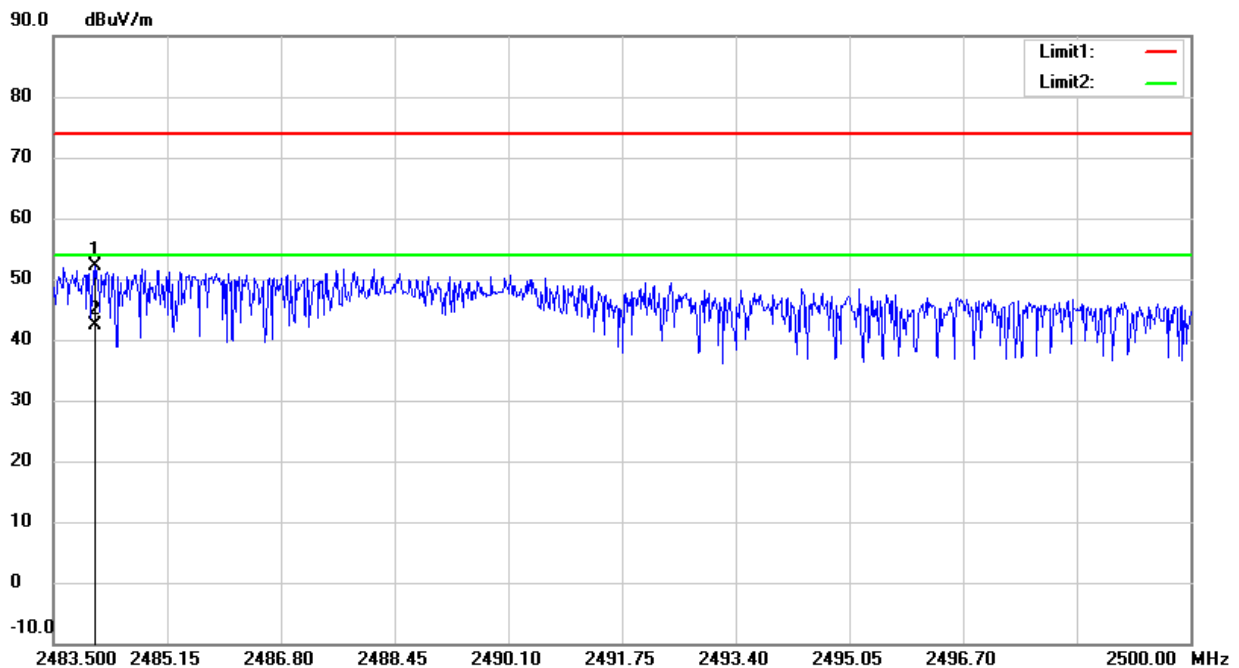




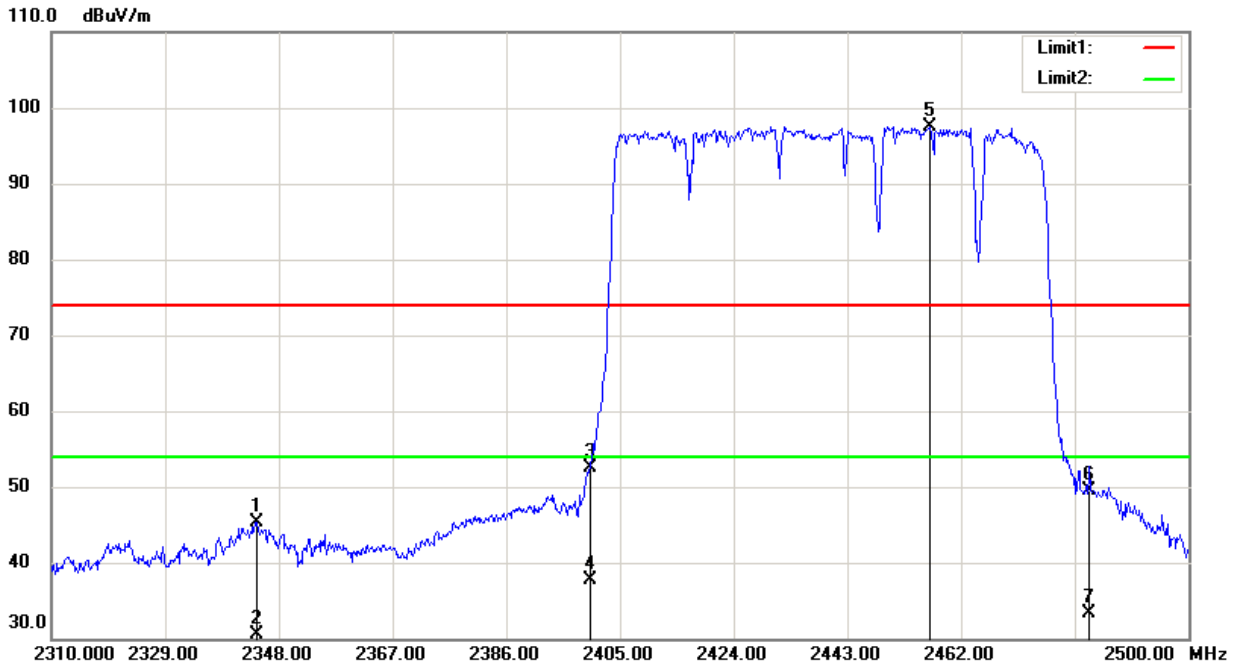
|   |                         |                    |   |
|---|-------------------------|--------------------|---|
| Spurious Emission in Restricted Band 2483.5-2500MHz |                         |                    |   |
| Test Model  | Channel 21: 2475.000MHz | FSK Modulation     | H |
|   |                         | Test By: King Kong |   |



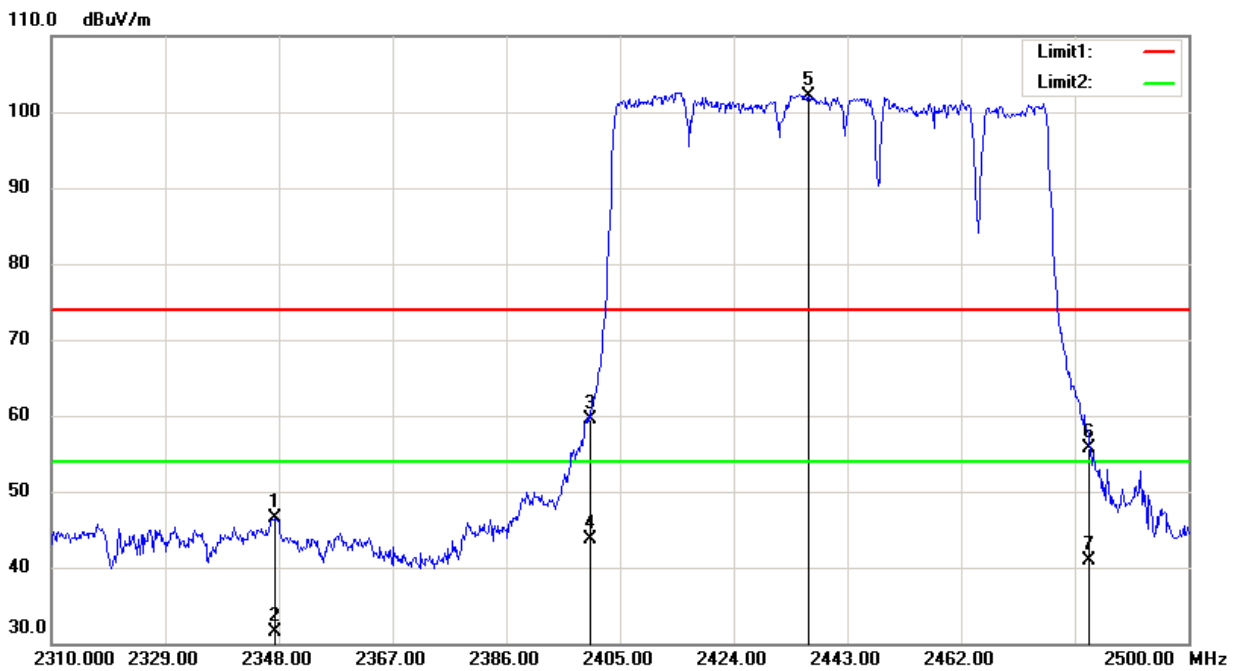
|   |                         |                    |   |
|---|-------------------------|--------------------|---|
| Spurious Emission in Restricted Band 2483.5-2500MHz |                         |                    |   |
| Test Model  | Channel 21: 2475.000MHz | FSK Modulation     | V |
|   |                         | Test By: King Kong |   |



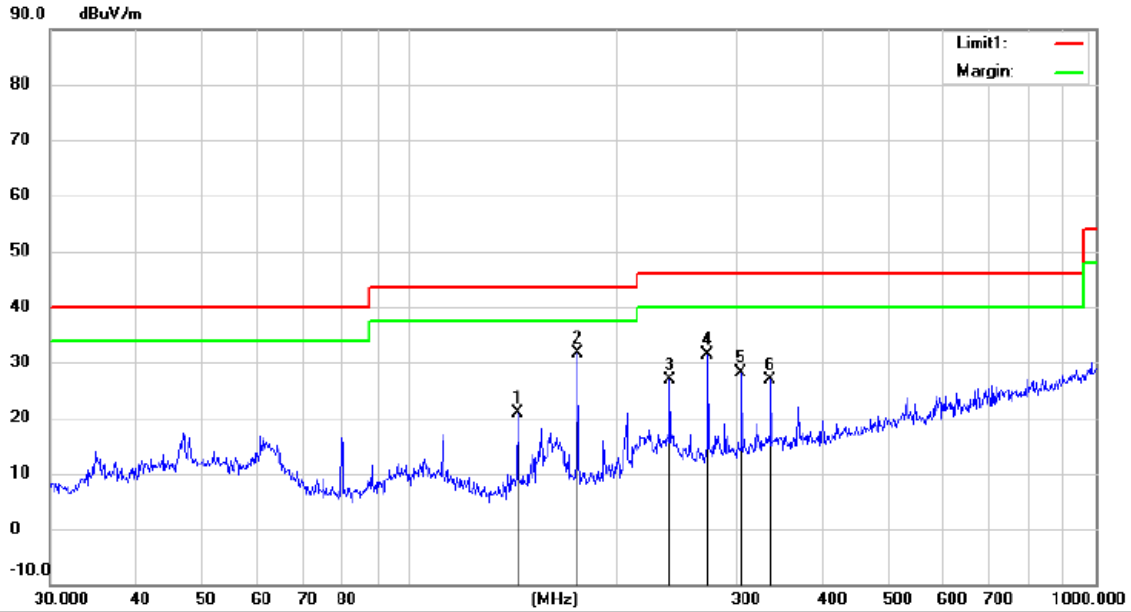
|   |         |                |   |
|---|---------|----------------|---|
| Spurious Emission in Restricted Band 2310-2390&2483.5-2500MHz |         |                |   |
| Test Model  | Hopping | FSK Modulation | H |
| Test By: King Kong  |         |                |   |



|   |         |                |   |
|---|---------|----------------|---|
| Spurious Emission in Restricted Band 2310-2390&2483.5-2500MHz |         |                |   |
| Test Model  | Hopping | FSK Modulation | V |
| Test By: King Kong  |         |                |   |



■ Spurious Emission below 1GHz (30MHz to 1GHz)  
All Adapter have been tested, and the worst result(Adapter 1) was report as below:

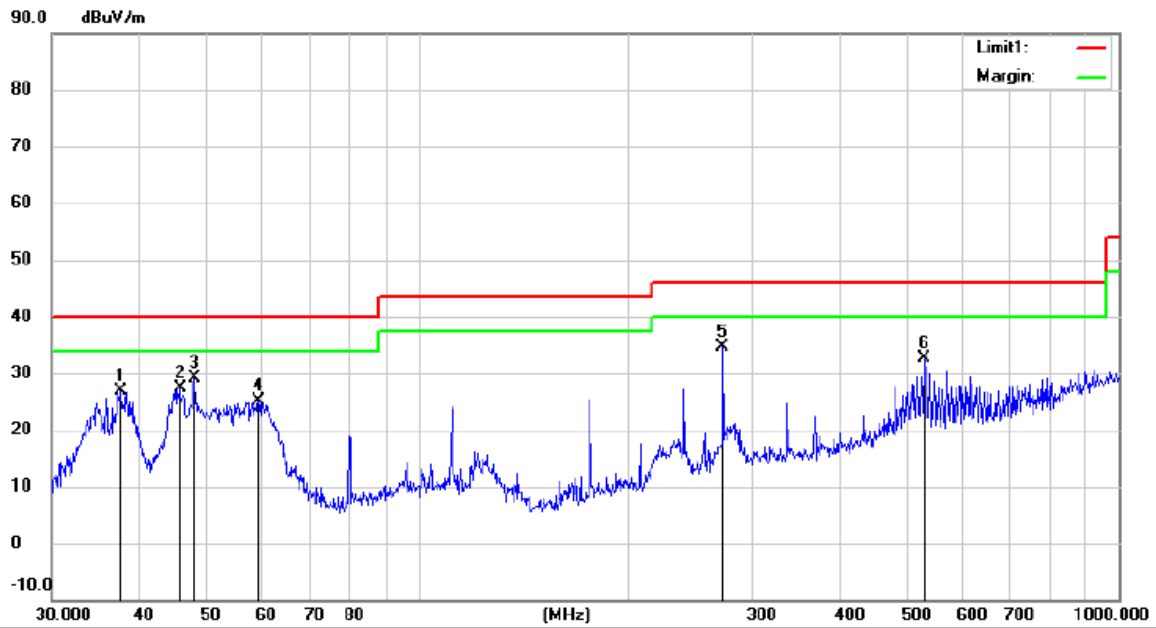


Site 3m Chamber #3 Polarization: **Horizontal** Temperature: 24 C  
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %  
 EUT: VVideo Monitor with Adjustable Lens (Baby Unit)  
 M/N: VM2251 BU  
 Mode: TX 2407.5  
 Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | cm             | degree       | Comment |
| 1   |     | 143.8294 | 40.27         | -19.37         | 20.90       | 43.50  | -22.60 |                |              | QP      |
| 2   | *   | 176.2685 | 49.27         | -17.67         | 31.60       | 43.50  | -11.90 |                |              | QP      |
| 3   |     | 239.9873 | 40.79         | -13.90         | 26.89       | 46.00  | -19.11 |                |              | QP      |
| 4   |     | 272.2776 | 44.46         | -13.19         | 31.27       | 46.00  | -14.73 |                |              | QP      |
| 5   |     | 304.6100 | 40.59         | -12.36         | 28.23       | 46.00  | -17.77 |                |              | QP      |
| 6   |     | 336.0350 | 37.96         | -11.02         | 26.94       | 46.00  | -19.06 |                |              | QP      |

\*:Maximum data x:Over limit !:over margin

Operator: KK



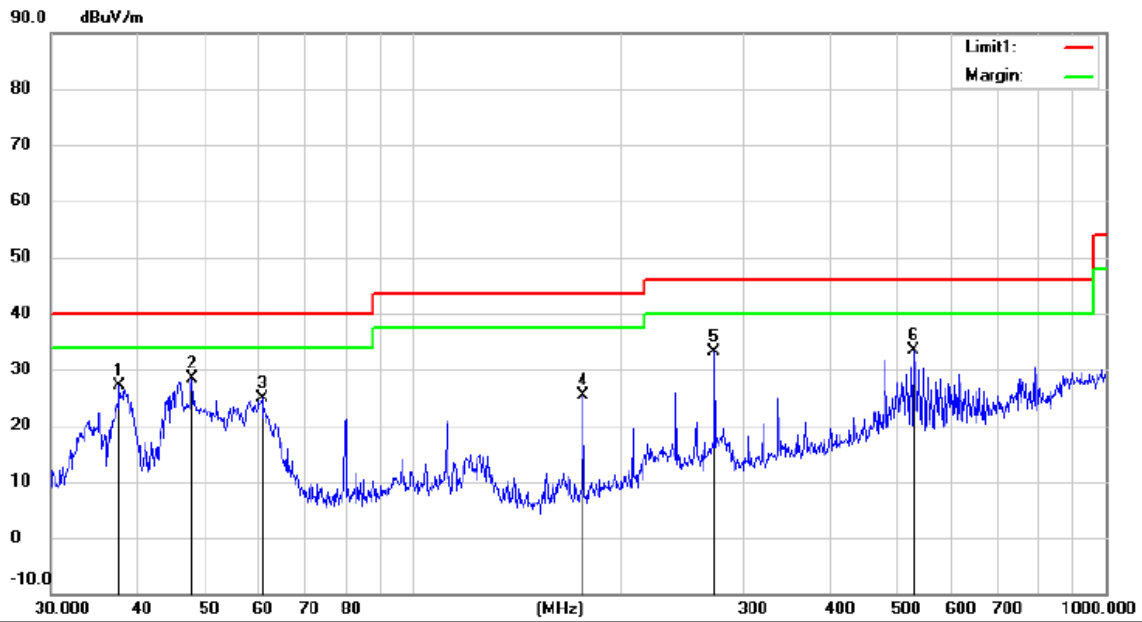
Site 3m Chamber #3  
 Limit: (RE)FCC PART 15 C  
 EUT: Video Monitor with Adjustable Lens (Baby Unit)  
 M/N: VM2251 BU  
 Mode: TX 2407.5  
 Note:

Polarization: **Vertical**      Temperature: 24 C  
 Power: AC 120V/60Hz      Humidity: 53 %

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | cm             | degree       | Comment |
| 1   |     | 37.6796  | 42.55         | -15.76         | 26.79       | 40.00  | -13.21 |                |              | QP      |
| 2   |     | 45.6946  | 41.50         | -14.05         | 27.45       | 40.00  | -12.55 |                |              | QP      |
| 3   | *   | 47.9940  | 42.96         | -13.79         | 29.17       | 40.00  | -10.83 |                |              | QP      |
| 4   |     | 59.2323  | 40.79         | -15.54         | 25.25       | 40.00  | -14.75 |                |              | QP      |
| 5   |     | 272.2776 | 47.76         | -13.19         | 34.57       | 46.00  | -11.43 |                |              | QP      |
| 6   |     | 528.2458 | 39.45         | -6.74          | 32.71       | 46.00  | -13.29 |                |              | QP      |

\*:Maximum data    x:Over limit    !:over margin

Operator: KK

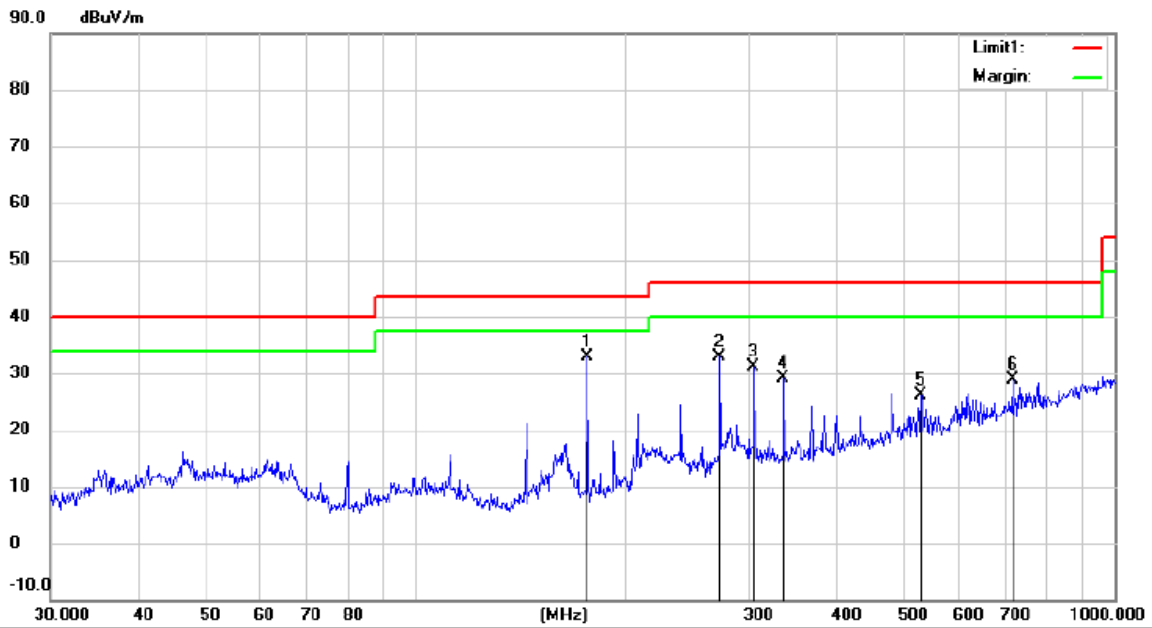


Site 3m Chamber #3      Polarization: **Vertical**      Temperature: 24 C  
 Limit: (RE)FCC PART 15 C      Power: AC 120V/60Hz      Humidity: 53 %  
 EUT: Video Monitor with Adjustable Lens (Baby Unit)  
 M/N: VM2251 BU  
 Mode: TX 2441.25  
 Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | cm             | degree       | Comment |
| 1   |     | 37.6797  | 42.85         | -15.76         | 27.09       | 40.00  | -12.91 |                |              | QP      |
| 2   | *   | 47.9940  | 42.29         | -13.79         | 28.50       | 40.00  | -11.50 |                |              | QP      |
| 3   |     | 60.4918  | 40.53         | -15.71         | 24.82       | 40.00  | -15.18 |                |              | QP      |
| 4   |     | 176.2686 | 43.00         | -17.67         | 25.33       | 43.50  | -18.17 |                |              | QP      |
| 5   |     | 272.2776 | 46.29         | -13.19         | 33.10       | 46.00  | -12.90 |                |              | QP      |
| 6   |     | 528.2458 | 40.04         | -6.74          | 33.30       | 46.00  | -12.70 |                |              | QP      |

\*:Maximum data    x:Over limit    !:over margin

Operator: KK



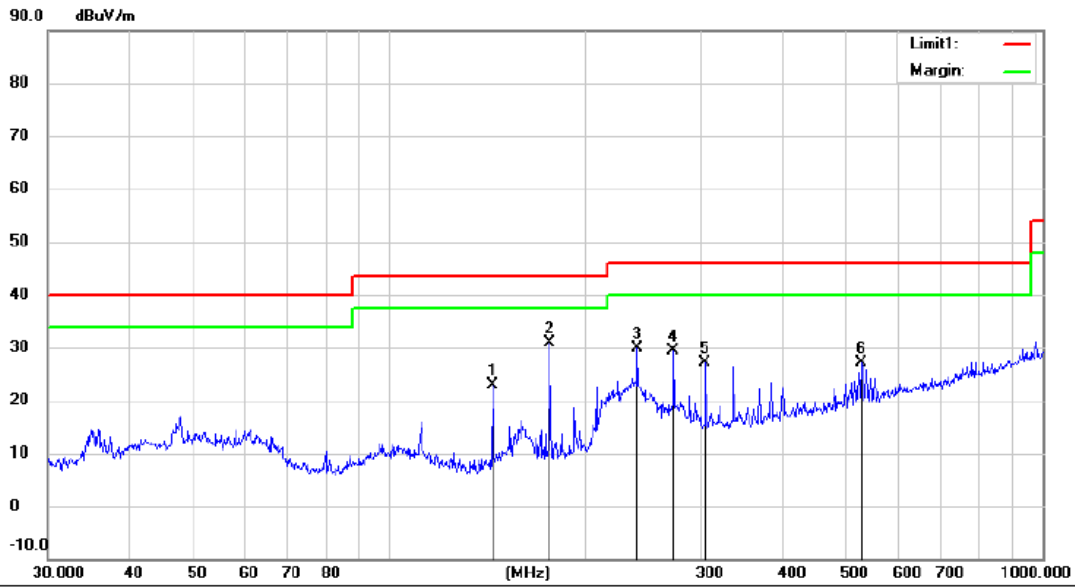
Site 3m Chamber #3  
 Limit: (RE)FCC PART 15 C  
 EUT: Video Monitor with Adjustable Lens (Baby Unit)  
 M/N: VM2251 BU  
 Mode: TX 2441.25  
 Note:

Polarization: **Horizontal**      Temperature: 24 C  
 Power: AC 120V/60Hz      Humidity: 53 %

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | cm             | degree       | Comment |
| 1   | *   | 176.2686 | 50.52         | -17.67         | 32.85       | 43.50  | -10.65 |                |              | QP      |
| 2   |     | 272.2776 | 45.95         | -13.19         | 32.76       | 46.00  | -13.24 |                |              | QP      |
| 3   |     | 304.6100 | 43.51         | -12.36         | 31.15       | 46.00  | -14.85 |                |              | QP      |
| 4   |     | 336.0351 | 40.25         | -11.02         | 29.23       | 46.00  | -16.77 |                |              | QP      |
| 5   |     | 528.2458 | 32.99         | -6.74          | 26.25       | 46.00  | -19.75 |                |              | QP      |
| 6   |     | 714.1733 | 32.18         | -3.36          | 28.82       | 46.00  | -17.18 |                |              | QP      |

\*:Maximum data    x:Over limit    !:over margin

Operator: KK

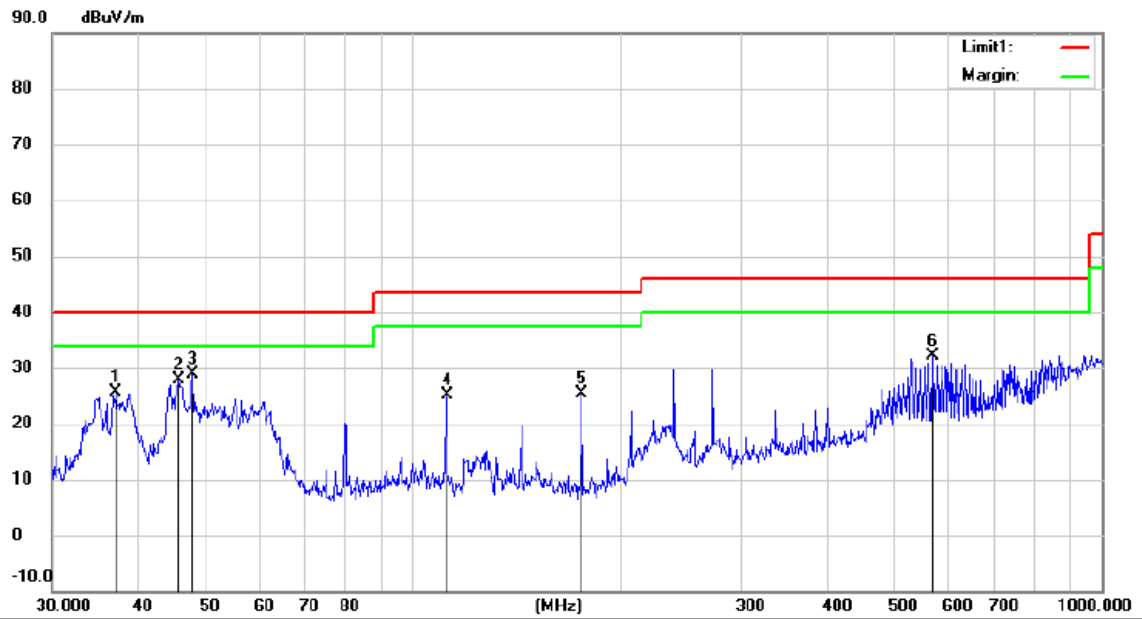


Site 3m Chamber #3 Polarization: *Horizontal* Temperature: 24 C  
 Limit: (RE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 53 %  
 EUT: Video Monitor with Adjustable Lens (Baby Unit)  
 M/N: VM2251 BU  
 Mode: TX 2475  
 Note:

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | cm             | degree       | Comment |
| 1   |     | 143.8294 | 42.29         | -19.37         | 22.92       | 43.50  | -20.58 | QP             |              |         |
| 2   | *   | 176.2685 | 48.44         | -17.67         | 30.77       | 43.50  | -12.73 | QP             |              |         |
| 3   |     | 239.9873 | 43.87         | -13.90         | 29.97       | 46.00  | -16.03 | QP             |              |         |
| 4   |     | 272.2776 | 42.49         | -13.19         | 29.30       | 46.00  | -16.70 | QP             |              |         |
| 5   |     | 304.6100 | 39.47         | -12.36         | 27.11       | 46.00  | -18.89 | QP             |              |         |
| 6   |     | 528.2458 | 33.85         | -6.74          | 27.11       | 46.00  | -18.89 | QP             |              |         |

\*:Maximum data x:Over limit !:over margin

Operator: KK



Site 3m Chamber #3  
 Limit: (RE)FCC PART 15 C  
 EUT: Video Monitor with Adjustable Lens (Baby Unit)  
 M/N: VM2251 BU  
 Mode: TX 2475  
 Note:

Polarization: *Vertical*      Temperature: 24 C  
 Power: AC 120V/60Hz      Humidity: 53 %

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | cm             | degree       | Comment |
| 1   |     | 37.1550  | 41.51         | -16.00         | 25.51       | 40.00  | -14.49 |                |              | QP      |
| 2   |     | 45.8551  | 41.82         | -14.03         | 27.79       | 40.00  | -12.21 |                |              | QP      |
| 3   | *   | 47.9940  | 42.61         | -13.79         | 28.82       | 40.00  | -11.18 |                |              | QP      |
| 4   |     | 112.1303 | 41.15         | -16.09         | 25.06       | 43.50  | -18.44 |                |              | QP      |
| 5   |     | 176.2685 | 43.02         | -17.67         | 25.35       | 43.50  | -18.15 |                |              | QP      |
| 6   |     | 568.6126 | 38.17         | -6.11          | 32.06       | 46.00  | -13.94 |                |              | QP      |

\*:Maximum data    x:Over limit    !:over margin

Operator: KK



## 8.9 CONDUCTED EMISSION TEST

### 8.9.1 Applicable Standard

According to FCC Part 15.207(a)  
According to IC RSS-Gen 6.13

### 8.9.2 Conformance Limit

| Conducted Emission Limit |            |         |
|--------------------------|------------|---------|
| Frequency(MHz)           | Quasi-peak | Average |
| 0.15-0.5                 | 66-56      | 56-46   |
| 0.5-5.0                  | 56         | 46      |
| 5.0-30.0                 | 60         | 50      |

Note: 1. The lower limit shall apply at the transition frequencies  
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 8.9.3 Test Configuration

Test according to clause 7.3 conducted emission test setup

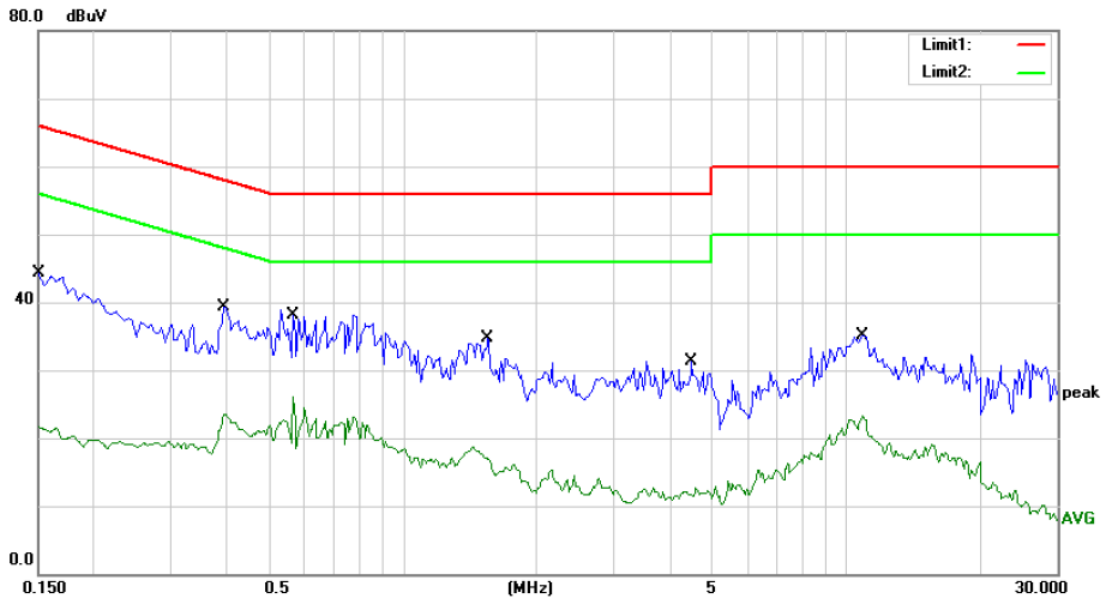
### 8.9.4 Test Procedure

The EUT was placed on a table which is 0.1m above ground plane.  
Maximum procedure was performed on the highest emissions to ensure EUT compliance.  
Repeat above procedures until all frequency measured were complete.

### 8.9.5 Test Results

Pass

We test the EUT at 120V, and show the worst result as bellow.

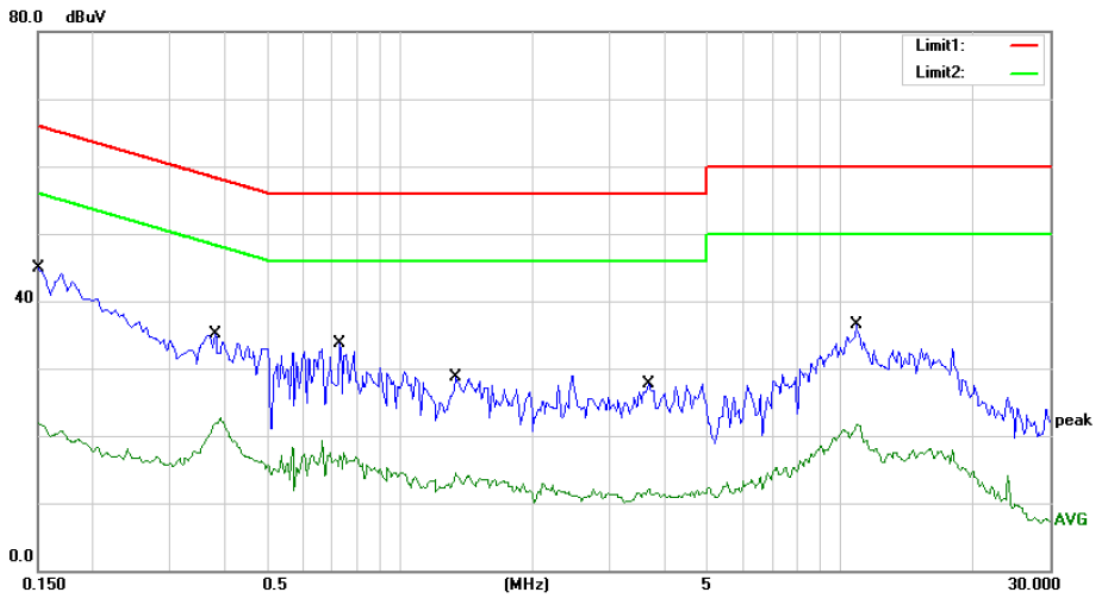


Site Conduction #1  
 Limit: (CE)FCC PART 15 C  
 EUT: Video Monitor with Adjustable Lens (Baby Unit)  
 M/N: VM2251 BU  
 Mode: 2.4G Wireless Connecting  
 Note: Adapter: CS3E060040LU

Phase: **L1** Temperature: 22  
 Power: AC 120V/60Hz Humidity: 55 %

| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector | Comment |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB     |          |         |
| 1   |     | 0.1500  | 44.31         | 0.00           | 44.31       | 66.00 | -21.69 | QP       |         |
| 2   |     | 0.1500  | 21.75         | 0.00           | 21.75       | 56.00 | -34.25 | AVG      |         |
| 3   |     | 0.3950  | 39.35         | 0.00           | 39.35       | 57.96 | -18.61 | QP       |         |
| 4   |     | 0.3950  | 23.50         | 0.00           | 23.50       | 47.96 | -24.46 | AVG      |         |
| 5   | *   | 0.5650  | 38.08         | 0.00           | 38.08       | 56.00 | -17.92 | QP       |         |
| 6   |     | 0.5650  | 26.20         | 0.00           | 26.20       | 46.00 | -19.80 | AVG      |         |
| 7   |     | 1.5600  | 34.62         | 0.00           | 34.62       | 56.00 | -21.38 | QP       |         |
| 8   |     | 1.5600  | 18.79         | 0.00           | 18.79       | 46.00 | -27.21 | AVG      |         |
| 9   |     | 4.4950  | 31.28         | 0.00           | 31.28       | 56.00 | -24.72 | QP       |         |
| 10  |     | 4.4950  | 12.67         | 0.00           | 12.67       | 46.00 | -33.33 | AVG      |         |
| 11  |     | 10.8750 | 35.18         | 0.00           | 35.18       | 60.00 | -24.82 | QP       |         |
| 12  |     | 10.8750 | 23.32         | 0.00           | 23.32       | 50.00 | -26.68 | AVG      |         |

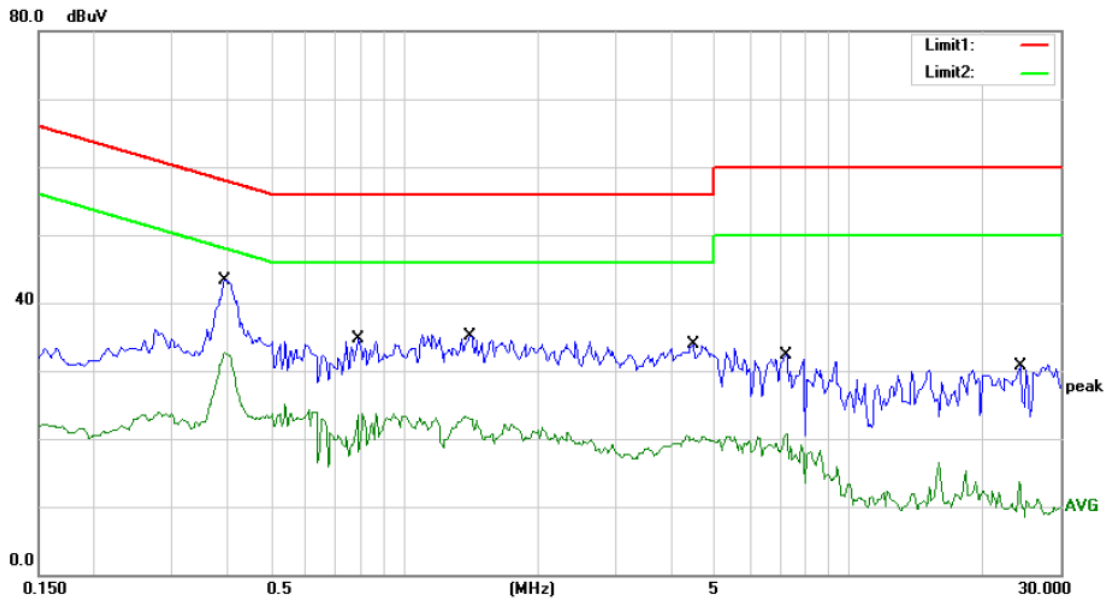
\*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Stan



Site Conduction #1 Phase: **N** Temperature: 22  
 Limit: (CE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 55 %  
 EUT: Video Monitor with Adjustable Lens (Baby Unit)  
 M/N: VM2251 BU  
 Mode: 2.4G Wireless Connecting  
 Note: Adapter: CS3E060040LU

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   | *   | 0.1500       | 44.89                    | 0.00                    | 44.89                    | 66.00         | -21.11     | QP       |         |
| 2   |     | 0.1500       | 21.92                    | 0.00                    | 21.92                    | 56.00         | -34.08     | AVG      |         |
| 3   |     | 0.3800       | 35.02                    | 0.00                    | 35.02                    | 58.28         | -23.26     | QP       |         |
| 4   |     | 0.3800       | 22.67                    | 0.00                    | 22.67                    | 48.28         | -25.61     | AVG      |         |
| 5   |     | 0.7300       | 33.70                    | 0.00                    | 33.70                    | 56.00         | -22.30     | QP       |         |
| 6   |     | 0.7300       | 19.23                    | 0.00                    | 19.23                    | 46.00         | -26.77     | AVG      |         |
| 7   |     | 1.3350       | 28.70                    | 0.00                    | 28.70                    | 56.00         | -27.30     | QP       |         |
| 8   |     | 1.3350       | 14.42                    | 0.00                    | 14.42                    | 46.00         | -31.58     | AVG      |         |
| 9   |     | 3.6800       | 27.61                    | 0.00                    | 27.61                    | 56.00         | -28.39     | QP       |         |
| 10  |     | 3.6800       | 12.03                    | 0.00                    | 12.03                    | 46.00         | -33.97     | AVG      |         |
| 11  |     | 10.8500      | 36.45                    | 0.00                    | 36.45                    | 60.00         | -23.55     | QP       |         |
| 12  |     | 10.8500      | 21.75                    | 0.00                    | 21.75                    | 50.00         | -28.25     | AVG      |         |

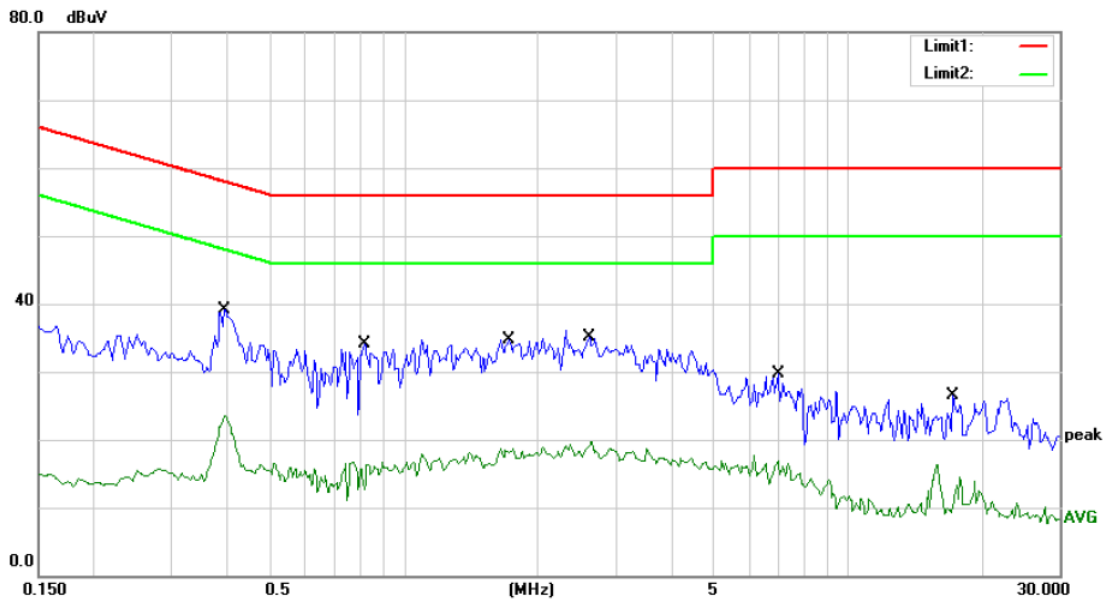
\*:Maximum data x:Over limit l:over margin Comment: Factor build in receiver. Operator: Stan



Site Conduction #1 Phase: **L1** Temperature: 22  
 Limit: (CE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 55 %  
 EUT: Video Monitor with Adjustable Lens (Baby Unit)  
 M/N: VM2251 BU  
 Mode: 2.4G Wireless Connecting  
 Note: Adapter: S003AKU0600040

| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector | Comment |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB     |          |         |
| 1   | *   | 0.3950  | 43.34         | 0.00           | 43.34       | 57.96 | -14.62 | QP       |         |
| 2   |     | 0.3950  | 32.61         | 0.00           | 32.61       | 47.96 | -15.35 | AVG      |         |
| 3   |     | 0.7900  | 34.73         | 0.00           | 34.73       | 56.00 | -21.27 | QP       |         |
| 4   |     | 0.7900  | 23.77         | 0.00           | 23.77       | 46.00 | -22.23 | AVG      |         |
| 5   |     | 1.4050  | 35.07         | 0.00           | 35.07       | 56.00 | -20.93 | QP       |         |
| 6   |     | 1.4050  | 23.24         | 0.00           | 23.24       | 46.00 | -22.76 | AVG      |         |
| 7   |     | 4.4304  | 33.72         | 0.00           | 33.72       | 56.00 | -22.28 | QP       |         |
| 8   |     | 4.4304  | 20.42         | 0.00           | 20.42       | 46.00 | -25.58 | AVG      |         |
| 9   |     | 7.2500  | 32.33         | 0.00           | 32.33       | 60.00 | -27.67 | QP       |         |
| 10  |     | 7.2500  | 20.78         | 0.00           | 20.78       | 50.00 | -29.22 | AVG      |         |
| 11  |     | 24.4500 | 30.79         | 0.00           | 30.79       | 60.00 | -29.21 | QP       |         |
| 12  |     | 24.4500 | 13.66         | 0.00           | 13.66       | 50.00 | -36.34 | AVG      |         |

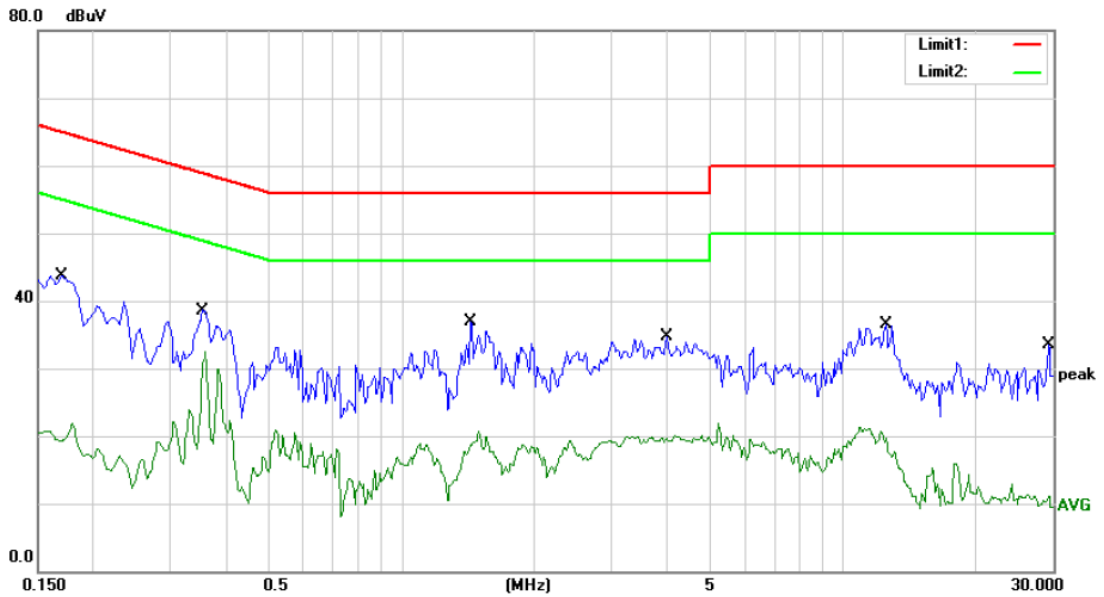
\*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Stan



Site Conduction #1 Phase: **N** Temperature: 22  
 Limit: (CE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 55 %  
 EUT: Video Monitor with Adjustable Lens (Baby Unit)  
 M/N: VM2251 BU  
 Mode: 2.4G Wireless Connecting  
 Note: Adapter: S003AKU0600040

| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector | Comment |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB     |          |         |
| 1   | *   | 0.3950  | 39.15         | 0.00           | 39.15       | 57.96 | -18.81 | QP       |         |
| 2   |     | 0.3950  | 23.58         | 0.00           | 23.58       | 47.96 | -24.38 | AVG      |         |
| 3   |     | 0.8150  | 34.19         | 0.00           | 34.19       | 56.00 | -21.81 | QP       |         |
| 4   |     | 0.8150  | 16.74         | 0.00           | 16.74       | 46.00 | -29.26 | AVG      |         |
| 5   |     | 1.7250  | 34.80         | 0.00           | 34.80       | 56.00 | -21.20 | QP       |         |
| 6   |     | 1.7250  | 18.79         | 0.00           | 18.79       | 46.00 | -27.21 | AVG      |         |
| 7   |     | 2.6150  | 35.13         | 0.00           | 35.13       | 56.00 | -20.87 | QP       |         |
| 8   |     | 2.6150  | 19.71         | 0.00           | 19.71       | 46.00 | -26.29 | AVG      |         |
| 9   |     | 6.9750  | 29.64         | 0.00           | 29.64       | 60.00 | -30.36 | QP       |         |
| 10  |     | 6.9750  | 17.65         | 0.00           | 17.65       | 50.00 | -32.35 | AVG      |         |
| 11  |     | 17.2000 | 26.44         | 0.00           | 26.44       | 60.00 | -33.56 | QP       |         |
| 12  |     | 17.2000 | 16.38         | 0.00           | 16.38       | 50.00 | -33.62 | AVG      |         |

\*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Stan

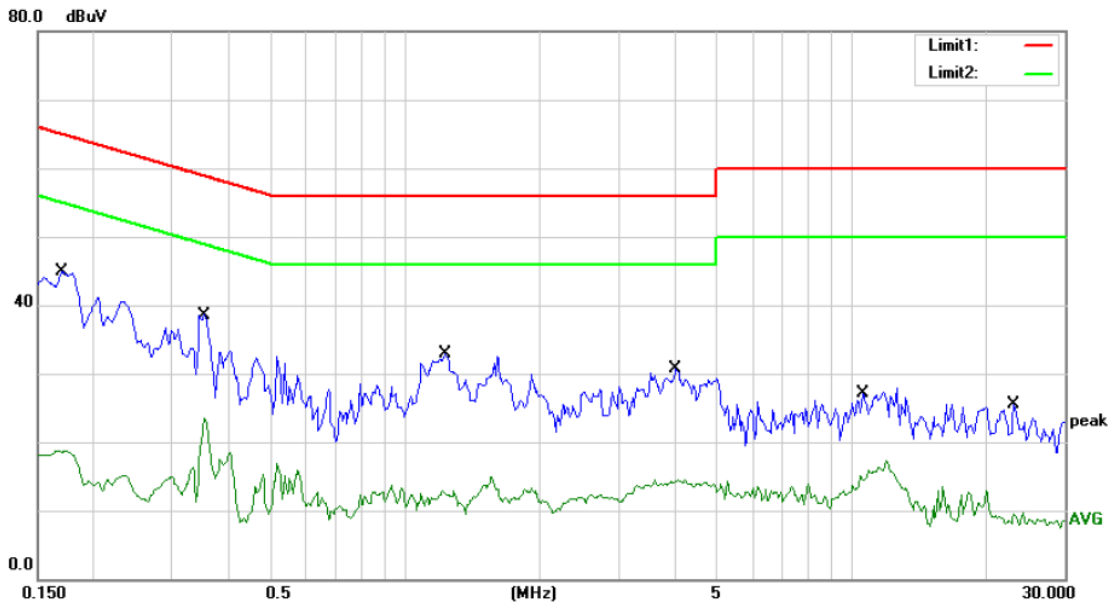


Site Conduction #1  
 Limit: (CE)FCC PART 15 C  
 EUT: Video Monitor with Adjustable Lens (Baby Unit)  
 M/N: VM2251 BU  
 Mode: 2.4G Wireless Connecting  
 Note: Adapter: VT05UUS06040

Phase: **L1** Temperature: 22  
 Power: AC 120V/60Hz Humidity: 55 %

| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector | Comment |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB     |          |         |
| 1   |     | 0.1700  | 43.72         | 0.00           | 43.72       | 64.96 | -21.24 | QP       |         |
| 2   |     | 0.1700  | 21.93         | 0.00           | 21.93       | 54.96 | -33.03 | AVG      |         |
| 3   |     | 0.3550  | 38.60         | 0.00           | 38.60       | 58.84 | -20.24 | QP       |         |
| 4   | *   | 0.3550  | 32.57         | 0.00           | 32.57       | 48.84 | -16.27 | AVG      |         |
| 5   |     | 1.4400  | 37.00         | 0.00           | 37.00       | 56.00 | -19.00 | QP       |         |
| 6   |     | 1.4400  | 20.65         | 0.00           | 20.65       | 46.00 | -25.35 | AVG      |         |
| 7   |     | 3.9850  | 34.72         | 0.00           | 34.72       | 56.00 | -21.28 | QP       |         |
| 8   |     | 3.9850  | 20.08         | 0.00           | 20.08       | 46.00 | -25.92 | AVG      |         |
| 9   |     | 12.5250 | 36.43         | 0.00           | 36.43       | 60.00 | -23.57 | QP       |         |
| 10  |     | 12.5250 | 21.29         | 0.00           | 21.29       | 50.00 | -28.71 | AVG      |         |
| 11  |     | 29.3500 | 33.43         | 0.00           | 33.43       | 60.00 | -26.57 | QP       |         |
| 12  |     | 29.3500 | 12.92         | 0.00           | 12.92       | 50.00 | -37.08 | AVG      |         |

\*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Stan



Site Conduction #1 Phase: **N** Temperature: 22  
 Limit: (CE)FCC PART 15 C Power: AC 120V/60Hz Humidity: 55 %  
 EUT: Video Monitor with Adjustable Lens (Baby Unit)  
 M/N: VM2251 BU  
 Mode: 2.4G Wireless Connecting  
 Note: Adapter: VT05UUS06040

| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over   | Detector | Comment |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB     |          |         |
| 1   | *   | 0.1700  | 44.96         | 0.00           | 44.96       | 64.96 | -20.00 | QP       |         |
| 2   |     | 0.1700  | 18.64         | 0.00           | 18.64       | 54.96 | -36.32 | AVG      |         |
| 3   |     | 0.3550  | 38.60         | 0.00           | 38.60       | 58.84 | -20.24 | QP       |         |
| 4   |     | 0.3550  | 23.52         | 0.00           | 23.52       | 48.84 | -25.32 | AVG      |         |
| 5   |     | 1.2250  | 32.81         | 0.00           | 32.81       | 56.00 | -23.19 | QP       |         |
| 6   |     | 1.2250  | 14.85         | 0.00           | 14.85       | 46.00 | -31.15 | AVG      |         |
| 7   |     | 4.0300  | 30.69         | 0.00           | 30.69       | 56.00 | -25.31 | QP       |         |
| 8   |     | 4.0300  | 14.42         | 0.00           | 14.42       | 46.00 | -31.58 | AVG      |         |
| 9   |     | 10.6000 | 27.10         | 0.00           | 27.10       | 60.00 | -32.90 | QP       |         |
| 10  |     | 10.6000 | 17.30         | 0.00           | 17.30       | 50.00 | -32.70 | AVG      |         |
| 11  |     | 23.0250 | 25.47         | 0.00           | 25.47       | 60.00 | -34.53 | QP       |         |
| 12  |     | 23.0250 | 12.80         | 0.00           | 12.80       | 50.00 | -37.20 | AVG      |         |

\*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: Stan

**8.10 ANTENNA APPLICATION**

**8.10.1 Antenna Requirement**

| Standard                                      | Requirement   |
|---|---|
| <p>FCC CRF Part 15.203<br/>IC RSS-Gen 6.7</p> | <p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.</p> |

For intentional device, according to FCC 47 CFR Section 15.203 and IC RSS-Gen 6.7, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b) and IC RSS-Gen 6.7, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

**8.10.2 Result**

PASS.

The EUT has 1 antenna: a Integral Antenna, the gain is 0 dBi

- Note:
- Antenna use a permanently attached antenna which is not replaceable.
  - Not using a standard antenna jack or electrical connector for antenna replacement
  - The antenna has to be professionally installed (please provide method of installation)

which in accordance to section 15.203, please refer to the internal photos.

-----END OF REPORT-----