

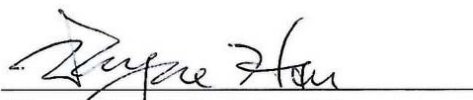
# FCC Test Report

Equipment : Lytro Light Field Camera  
Brand Name : Lytro  
Model No. : B5  
FCC ID : ZMQB5  
Standard : 47 CFR FCC Part 15.247  
Operating Band : 5725 MHz – 5850 MHz  
Equipment Class : DTS  
Applicant : Lytro, Inc.  
1300 Terra Bella Avenue,  
Mountain View, CA 94043 USA  
Manufacturer : Qisda Corporation  
157 Shan-Ying Road,  
Gueishan Taoyuan 333, Taiwan

The product sample received on Mar. 05, 2014 and completely tested on Apr. 02, 2014. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2009 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

  
Wayne Hsu / Assistant Manager

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### **APPENDIX A. TEST PHOTOS**

### **APPENDIX B. PHOTOGRAPHS OF EUT**

## Summary of Test Result

| Conformance Test Specifications |                  |                                                       |                                                                                                                   |                                                                   |          |
|---------------------------------|------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------|
| Report Clause                   | Ref. Std. Clause | Description                                           | Measured                                                                                                          | Limit                                                             | Result   |
| 1.1.2                           | 15.203           | Antenna Requirement                                   | Antenna connector mechanism complied                                                                              | FCC 15.203                                                        | Complied |
| 3.1                             | 15.207           | AC Power-line Conducted Emissions                     | [dBuV]: 0.199686MHz<br>41.84 (Margin 11.78dB) - AV<br>51.74 (Margin 11.88dB) - QP                                 | FCC 15.207                                                        | Complied |
| 3.2                             | 15.247(a)        | Bandwidth                                             | 6dB Bandwidth [MHz]<br>a/n(HT20):16.48<br>n(HT40):35.00<br>ac(VHT20):17.70<br>ac(VHT40):34.36<br>ac(VHT80): 73.52 | ≥500kHz                                                           | Complied |
| 3.3                             | 15.247(b)        | RF Output Power (Maximum Peak Conducted Output Power) | Power [dBm]:22.35                                                                                                 | Power [dBm]:30                                                    | Complied |
| 3.4                             | 15.247(d)        | Power Spectral Density                                | PSD [dBm/100kHz]:-12.09                                                                                           | PSD [dBm/MHz]:17<br>replace 8dBm/3kHz                             | Complied |
| 3.5                             | 15.247(c)        | Transmitter Bandedge Emissions                        | Non-Restricted Bands:<br>5724.60MHz: 29.18dB                                                                      | Non-Restricted Bands: > 20 dBc<br>Restricted Bands:<br>FCC 15.209 | Complied |
| 3.6                             | 15.247(c)        | Transmitter Radiated Unwanted Emissions               | Restricted Bands<br>[dBuV/m at 3m]: 509.18MHz<br>42.96 (Margin 3.04dB) - PK                                       | Non-Restricted Bands: > 20 dBc<br>Restricted Bands:<br>FCC 15.209 | Complied |



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# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

| RF General Information |                  |                 |                |                                    |                       |
|------------------------|------------------|-----------------|----------------|------------------------------------|-----------------------|
| Frequency Range (MHz)  | IEEE Std. 802.11 | Ch. Freq. (MHz) | Channel Number | Transmit Chains (N <sub>TX</sub> ) | RF Output Power (dBm) |
| 5725-5850              | a                | 5745-5825       | 149-165 [5]    | 1                                  | 22.35                 |
| 5725-5850              | n(HT20)          | 5745-5825       | 149-165 [5]    | 1                                  | 22.27                 |
| 5725-5850              | n(HT40)          | 5755-5795       | 151-159 [2]    | 1                                  | 22.08                 |
| 5725-5850              | ac(VHT20)        | 5745-5825       | 149-165 [5]    | 1                                  | 22.34                 |
| 5725-5850              | ac(VHT40)        | 5755-5795       | 151-159 [2]    | 1                                  | 22.04                 |
| 5725-5850              | ac(VHT80)        | 5775            | 155 [1]        | 1                                  | 21.48                 |

Note 1: RF output power specifies that Maximum Peak Conducted Output Power.  
 Note 2: 802.11a/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.  
 Note 3: 802.11ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.  
 Note 4: The WLAN and Bluetooth didn't transmit at same time.

### 1.1.2 Antenna Information

| Antenna Category                    |                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Integral antenna (antenna permanently attached)                                                                                                                                                                                                                                                                   |
| <input checked="" type="checkbox"/> | Temporary RF connector provided                                                                                                                                                                                                                                                                                   |
| <input type="checkbox"/>            | No temporary RF connector provided<br>Transmit chains bypass antenna and soldered temporary RF connector provided for connected measurement. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator and correct for all losses in the RF path. |

| Antenna General Information |           |           |            |
|-----------------------------|-----------|-----------|------------|
| No.                         | Ant. Cat. | Ant. Type | Gain (dBi) |
| 1                           | Integral  | CHIP      | 4.35       |

**1.1.3 Type of EUT**

| Identify EUT                        |                                                                                                                               |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| EUT Serial Number                   | N/A                                                                                                                           |
| Presentation of Equipment           | <input checked="" type="checkbox"/> Production ; <input type="checkbox"/> Pre-Production ; <input type="checkbox"/> Prototype |
| Type of EUT                         |                                                                                                                               |
| <input checked="" type="checkbox"/> | Stand-alone                                                                                                                   |
| <input type="checkbox"/>            | Combined (EUT where the radio part is fully integrated within another device)<br>Combined Equipment - Brand Name / Model No.: |
| <input type="checkbox"/>            | Plug-in radio (EUT intended for a variety of host systems)<br>Host System - Brand Name / Model No.:                           |
| <input type="checkbox"/>            | Other:                                                                                                                        |

**1.1.4 Test Signal Duty Cycle**

| Operated Mode for Worst Duty Cycle                                          |                 |                                       |
|-----------------------------------------------------------------------------|-----------------|---------------------------------------|
| <input type="checkbox"/> Operated normally mode for worst duty cycle        |                 |                                       |
| <input checked="" type="checkbox"/> Operated test mode for worst duty cycle |                 |                                       |
| Test Signal Duty Cycle (x)                                                  | N <sub>TX</sub> | Power Duty Factor [dB] – (10 log 1/x) |
| <input checked="" type="checkbox"/> 100.00% - IEEE 802.11a                  | 1               | 0.00                                  |
| <input checked="" type="checkbox"/> 100.00% - IEEE 802.11n (HT20)           | 1               | 0.00                                  |
| <input checked="" type="checkbox"/> 97.10% - IEEE 802.11n (HT40)            | 1               | 0.13                                  |
| <input checked="" type="checkbox"/> 100.00% - IEEE 802.11ac (VHT20)         | 1               | 0.00                                  |
| <input checked="" type="checkbox"/> 97.16% - IEEE 802.11ac (VHT40)          | 1               | 0.13                                  |
| <input checked="" type="checkbox"/> 94.44% - IEEE 802.11ac (VHT80)          | 1               | 0.25                                  |

Note 1: RF Output Power Plots w/o Duty Factor

**1.1.5 EUT Operational Condition**

|                          |                                             |                                                                |                                             |
|--------------------------|---------------------------------------------|----------------------------------------------------------------|---------------------------------------------|
| <b>Supply Voltage</b>    | <input type="checkbox"/> AC mains           | <input checked="" type="checkbox"/> DC                         | <input checked="" type="checkbox"/> System  |
| <b>Type of DC Source</b> | <input type="checkbox"/> Internal DC supply | <input checked="" type="checkbox"/> External DC from USB cable | <input checked="" type="checkbox"/> Battery |

## 1.2 Accessories And Support Equipment

| Accessories |              |                                                 |            |               |
|-------------|--------------|-------------------------------------------------|------------|---------------|
| USB cable   | Brand Name   | MECIMEX                                         | Model Name | SM101-12014-3 |
|             | Signal Line  | 0.6 meter, non-shielded cable, w/o ferrite core |            |               |
| Battery     | Brand Name   | LYTRO                                           | Model Name | A3            |
|             | Power Rating | 3.7 Vdc, 3760 mAh                               |            |               |

Note: Regarding to more detail and other information, please refer to user manual.

| Support Equipment - AC Conduction |           |            |            |        |
|-----------------------------------|-----------|------------|------------|--------|
| No.                               | Equipment | Brand Name | Model Name | FCC ID |
| 1                                 | Notebook  | DELL       | E5530      | DoC    |

| Support Equipment - RF Conducted |           |            |            |        |
|----------------------------------|-----------|------------|------------|--------|
| No.                              | Equipment | Brand Name | Model Name | FCC ID |
| 1                                | Notebook  | ASUS       | A53S       | DoC    |

| Support Equipment - Radiated Emission |           |            |            |        |
|---------------------------------------|-----------|------------|------------|--------|
| No.                                   | Equipment | Brand Name | Model Name | FCC ID |
| 1                                     | Notebook  | DELL       | E5530      | DoC    |

## 1.3 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2009
- ♦ FCC KDB 558074
- ♦ FCC KDB 789033
- ♦ FCC KDB 644545 D01
- ♦ FCC KDB 644545 D02
- ♦ FCC KDB 662911

## 1.4 Testing Location Information

| Testing Location                    |        |                                                                                                                    |               |                  |
|-------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------|---------------|------------------|
| <input checked="" type="checkbox"/> | HWA YA | ADD : No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. |               |                  |
|                                     |        | TEL : 886-3-327-3456 FAX : 886-3-327-0973                                                                          |               |                  |
| Test Condition                      |        | Test Site No.                                                                                                      | Test Engineer | Test Environment |
| AC Conduction                       |        | CO04-HY                                                                                                            | Zeus          | 21°C / 50%       |
| RF Conducted                        |        | TH06-HY                                                                                                            | Wei           | 23°C / 64%       |
| Radiated Emission                   |        | 03CH03-HY                                                                                                          | Allen         | 21°C / 50%       |

## 1.5 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

| Measurement Uncertainty           |               |             |
|-----------------------------------|---------------|-------------|
| Test Item                         |               | Uncertainty |
| AC power-line conducted emissions |               | ±2.26 dB    |
| Emission bandwidth, 6dB bandwidth |               | ±1.42 %     |
| RF output power, conducted        |               | ±0.63 dB    |
| Power density, conducted          |               | ±0.81 dB    |
| Unwanted emissions, conducted     | 9 – 150 kHz   | ±0.38 dB    |
|                                   | 0.15 – 30 MHz | ±0.42 dB    |
|                                   | 30 – 1000 MHz | ±0.51 dB    |
|                                   | 1 – 18 GHz    | ±0.67 dB    |
|                                   | 18 – 40 GHz   | ±0.83 dB    |
|                                   | 40 – 200 GHz  | N/A         |
| All emissions, radiated           | 9 – 150 kHz   | ±2.49 dB    |
|                                   | 0.15 – 30 MHz | ±2.28 dB    |
|                                   | 30 – 1000 MHz | ±2.56 dB    |
|                                   | 1 – 18 GHz    | ±3.59 dB    |
|                                   | 18 – 40 GHz   | ±3.82 dB    |
|                                   | 40 – 200 GHz  | N/A         |
| Temperature                       |               | ±0.8 °C     |
| Humidity                          |               | ±3 %        |
| DC and low frequency voltages     |               | ±3 %        |
| Time                              |               | ±1.42 %     |
| Duty Cycle                        |               | ±1.42 %     |

## 2 Test Configuration of EUT

### 2.1 The Worst Case Modulation Configuration

| Worst Modulation Used for Conformance Testing |                                    |                 |                       |
|-----------------------------------------------|------------------------------------|-----------------|-----------------------|
| Modulation Mode                               | Transmit Chains (N <sub>TX</sub> ) | Data Rate / MCS | Worst Data Rate / MCS |
| 11a,6-54Mbps                                  | 1                                  | 6-54Mbps        | 6 Mbps                |
| HT20,M0-7                                     | 1                                  | M0-7            | MCS 0                 |
| HT40,M0-7                                     | 1                                  | M0-7            | MCS 0                 |
| VHT20,M0-8                                    | 1                                  | M0-8            | MCS 0                 |
| VHT40,M0-9                                    | 1                                  | M0-9            | MCS 0                 |
| VHT80,M0-9                                    | 1                                  | M0-9            | MCS 0                 |

### 2.2 The Worst Case Power Setting Parameter

| The Worst Case Power Setting Parameter (5725-5850MHz band) |                       |                      |      |      |            |      |            |
|------------------------------------------------------------|-----------------------|----------------------|------|------|------------|------|------------|
| Test Software Version                                      | QRCT/Version 3.0.25.0 |                      |      |      |            |      |            |
| Modulation Mode                                            | N <sub>TX</sub>       | Test Frequency (MHz) |      |      |            |      |            |
|                                                            |                       | NCB: 20MHz           |      |      | NCB: 40MHz |      | NCB: 80MHz |
|                                                            |                       | 5745                 | 5785 | 5825 | 5755       | 5795 | 5775       |
| 11a,6-54Mbps                                               | 1                     | 18                   | 17   | 17   | -          | -    | -          |
| HT20,M0-7                                                  | 1                     | 18                   | 17   | 17   | -          | -    | -          |
| HT40,M0-7                                                  | 1                     | -                    | -    | -    | 17         | 18   | -          |
| VHT20,M0-8                                                 | 1                     | 18                   | 17   | 17   | -          | -    | -          |
| VHT40,M0-9                                                 | 1                     | -                    | -    | -    | 17         | 18   | -          |
| VHT80,M0-9                                                 | 1                     | -                    | -    | -    | -          | -    | 17         |

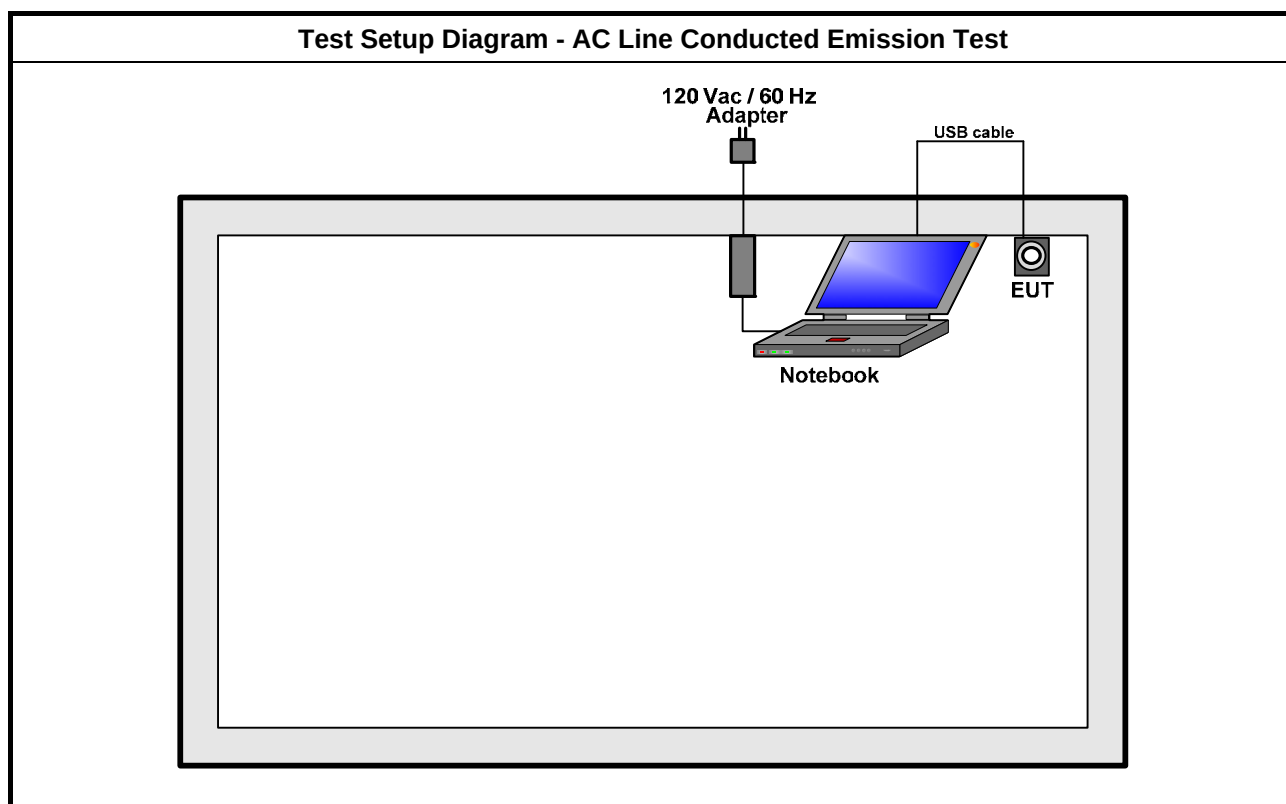
## 2.3 The Worst Case Measurement Configuration

| The Worst Case Mode for Following Conformance Tests |                                                                                         |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | AC power-line conducted emissions                                                       |
| <b>Condition</b>                                    | AC power-line conducted measurement for line and neutral<br>Test Voltage: 120Vac / 60Hz |
| <b>Operating Mode</b>                               | Operating Mode Description                                                              |
| 1                                                   | EUT with Notebook via USB cable                                                         |

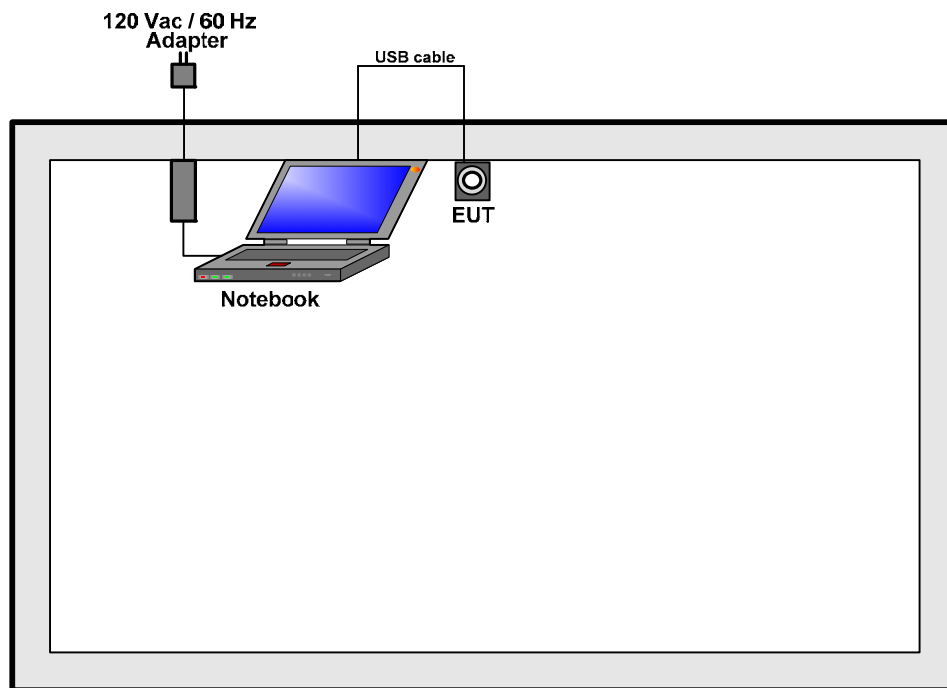
| The Worst Case Mode for Following Conformance Tests |                                                         |
|-----------------------------------------------------|---------------------------------------------------------|
| <b>Tests Item</b>                                   | RF Output Power, Power Spectral Density, 6 dB Bandwidth |
| <b>Test Condition</b>                               | Conducted measurement at transmit chains                |
| <b>Modulation Mode</b>                              | 11a, HT20, HT40, VHT20, VHT40, VHT80                    |

| The Worst Case Mode for Following Conformance Tests |                                                                                                                                                                                                           |                                                                                      |                                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>Tests Item</b>                                   | Transmitter Radiated Unwanted Emissions<br>Transmitter Radiated Bandedge Emissions                                                                                                                        |                                                                                      |                                                                                       |
| <b>Test Condition</b>                               | Radiated measurement                                                                                                                                                                                      |                                                                                      |                                                                                       |
| <b>User Position</b>                                | <input type="checkbox"/> EUT will be placed in fixed position.                                                                                                                                            |                                                                                      |                                                                                       |
|                                                     | <input type="checkbox"/> EUT will be placed in mobile position and operating multiple positions. EUT shall be performed two orthogonal planes.                                                            |                                                                                      |                                                                                       |
|                                                     | <input checked="" type="checkbox"/> EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions. EUT shall be performed three orthogonal planes. The worst planes is Z. |                                                                                      |                                                                                       |
| <b>Operating Mode &lt; 1GHz</b>                     | <input checked="" type="checkbox"/> 1. EUT with Notebook via USB cable                                                                                                                                    |                                                                                      |                                                                                       |
|                                                     | <input checked="" type="checkbox"/> 2. Transmitter Mode                                                                                                                                                   |                                                                                      |                                                                                       |
|                                                     | Operating mode 1 was the worst case and it was recorded in this test report.                                                                                                                              |                                                                                      |                                                                                       |
| <b>Operating Mode &gt; 1GHz</b>                     | <input checked="" type="checkbox"/> 2. Transmitter Mode                                                                                                                                                   |                                                                                      |                                                                                       |
| <b>Modulation Mode</b>                              | 11a, HT20, HT40, VHT20, VHT40, VHT80                                                                                                                                                                      |                                                                                      |                                                                                       |
| <b>Orthogonal Planes of EUT</b>                     | <b>X Plane</b>                                                                                                                                                                                            | <b>Y Plane</b>                                                                       | <b>Z Plane</b>                                                                        |
|                                                     |                                                                                                                        |  |  |

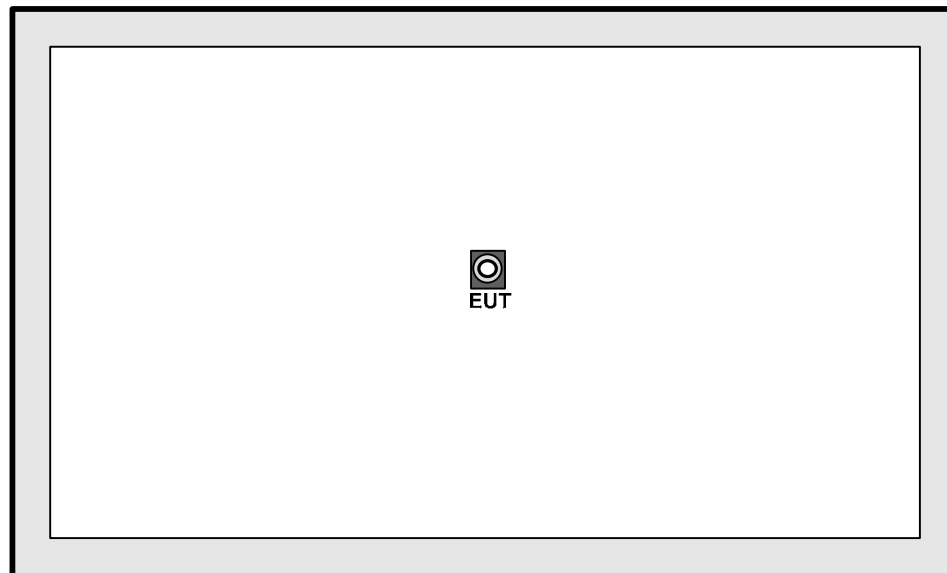
## 2.4 Test Setup Diagram



**Test Setup Diagram - Radiated Emission mode 1 (Below 1GHz)**



**Test Setup Diagram - Radiated Emission mode 2 (Above 1GHz)**



### 3 Transmitter Test Result

### 3.1 AC Power-line Conducted Emissions

### 3.1.1 AC Power-line Conducted Emissions Limit

| AC Power-line Conducted Emissions Limit |            |           |
|-----------------------------------------|------------|-----------|
| Frequency Emission (MHz)                | Quasi-Peak | Average   |
| 0.15-0.5                                | 66 - 56 *  | 56 - 46 * |
| 0.5-5                                   | 56         | 46        |
| 5-30                                    | 60         | 50        |

Note 1: \* Decreases with the logarithm of the frequency.

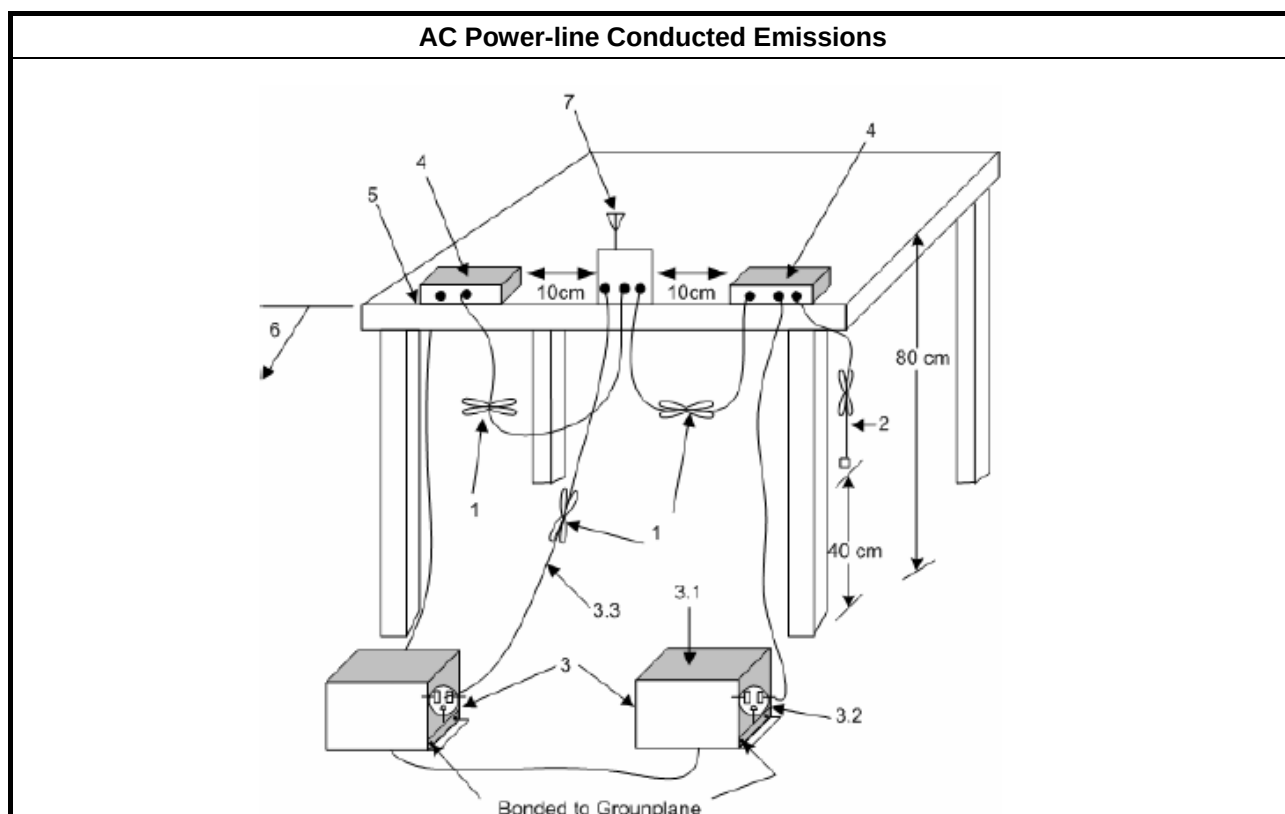
### 3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

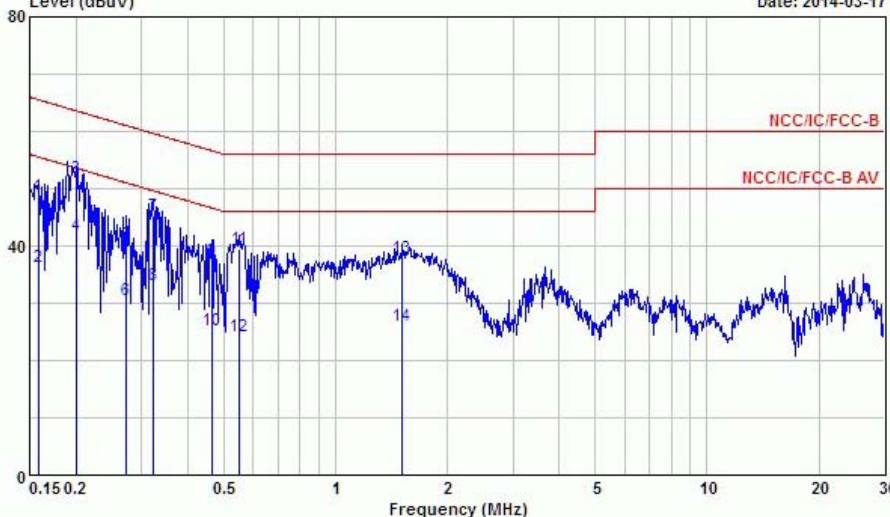
### 3.1.3 Test Procedures

| Test Method                                                                                                      |
|------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Refer as ANSI C63.10-2009, clause 6.2 for AC power-line conducted emissions. |

### 3.1.4 Test Setup

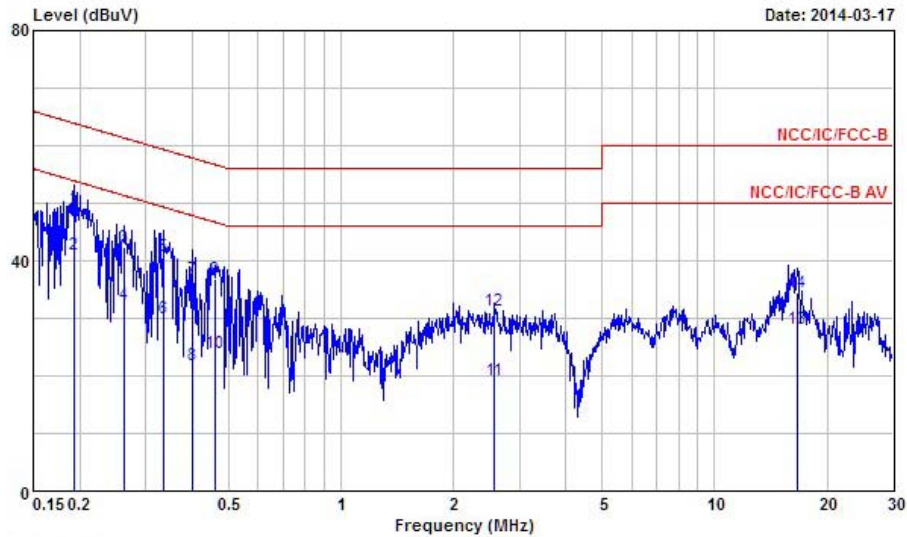


### 3.1.5 Test Result of AC Power-line Conducted Emissions

| AC Power-line Conducted Emissions Result                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                                 |        |       |             |        |         |         |  |      |       |      |       |      |      |       |  |  |     |      |       |      |       |        |      |        |  |  |  |    |      |      |    |    |  |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |       |       |        |       |       |      |      |    |    |       |       |        |       |       |      |      |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------|--------|-------|-------------|--------|---------|---------|--|------|-------|------|-------|------|------|-------|--|--|-----|------|-------|------|-------|--------|------|--------|--|--|--|----|------|------|----|----|--|---|-----------|-------|--------|-------|-------|------|------|----|---|-----------|-------|--------|-------|-------|------|------|---------|---|-----------|-------|--------|-------|-------|------|------|----|---|-----------|-------|--------|-------|-------|------|------|---------|---|-----------|-------|--------|-------|-------|------|------|----|---|-----------|-------|--------|-------|-------|------|------|---------|---|-----------|-------|--------|-------|-------|------|------|----|---|-----------|-------|--------|-------|-------|------|------|---------|---|-----------|-------|--------|-------|-------|------|------|----|----|-----------|-------|--------|-------|-------|------|------|---------|----|-----------|-------|--------|-------|-------|------|------|----|----|-----------|-------|--------|-------|-------|------|------|---------|----|-------|-------|--------|-------|-------|------|------|----|----|-------|-------|--------|-------|-------|------|------|---------|
| Operating Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 1                               |        |       | Power Phase |        | Neutral |         |  |      |       |      |       |      |      |       |  |  |     |      |       |      |       |        |      |        |  |  |  |    |      |      |    |    |  |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |       |       |        |       |       |      |      |    |    |       |       |        |       |       |      |      |         |
| Operating Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | EUT with Notebook via USB cable |        |       |             |        |         |         |  |      |       |      |       |      |      |       |  |  |     |      |       |      |       |        |      |        |  |  |  |    |      |      |    |    |  |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |       |       |        |       |       |      |      |    |    |       |       |        |       |       |      |      |         |
| <div><div><div>Level (dBUV)</div><div>Date: 2014-03-17</div></div><div><table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>Read</th><th>LISN</th><th>Cable</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Remark</th></tr><tr><th></th><th></th><th></th><th>dB</th><th>dBuV</th><th>dBuV</th><th>dB</th><th>dB</th><th></th></tr><tr><td>1</td><td>0.1581620</td><td>48.78</td><td>-16.78</td><td>65.56</td><td>48.40</td><td>0.02</td><td>0.36</td><td>QP</td></tr><tr><td>2</td><td>0.1581620</td><td>36.42</td><td>-19.14</td><td>55.56</td><td>36.04</td><td>0.02</td><td>0.36</td><td>Average</td></tr><tr><td>3</td><td>0.1996860</td><td>51.74</td><td>-11.88</td><td>63.62</td><td>51.22</td><td>0.02</td><td>0.50</td><td>QP</td></tr><tr><td>4</td><td>0.1996860</td><td>41.84</td><td>-11.78</td><td>53.62</td><td>41.32</td><td>0.02</td><td>0.50</td><td>Average</td></tr><tr><td>5</td><td>0.2715230</td><td>40.29</td><td>-20.78</td><td>61.07</td><td>39.73</td><td>0.02</td><td>0.54</td><td>QP</td></tr><tr><td>6</td><td>0.2715230</td><td>30.40</td><td>-20.67</td><td>51.07</td><td>29.84</td><td>0.02</td><td>0.54</td><td>Average</td></tr><tr><td>7</td><td>0.3216920</td><td>45.33</td><td>-14.33</td><td>59.66</td><td>44.73</td><td>0.03</td><td>0.57</td><td>QP</td></tr><tr><td>8</td><td>0.3216920</td><td>33.19</td><td>-16.47</td><td>49.66</td><td>32.59</td><td>0.03</td><td>0.57</td><td>Average</td></tr><tr><td>9</td><td>0.4636720</td><td>37.40</td><td>-19.23</td><td>56.63</td><td>36.74</td><td>0.03</td><td>0.63</td><td>QP</td></tr><tr><td>10</td><td>0.4636720</td><td>25.15</td><td>-21.48</td><td>46.63</td><td>24.49</td><td>0.03</td><td>0.63</td><td>Average</td></tr><tr><td>11</td><td>0.5522610</td><td>39.59</td><td>-16.41</td><td>56.00</td><td>38.88</td><td>0.04</td><td>0.67</td><td>QP</td></tr><tr><td>12</td><td>0.5522610</td><td>24.34</td><td>-21.66</td><td>46.00</td><td>23.63</td><td>0.04</td><td>0.67</td><td>Average</td></tr><tr><td>13</td><td>1.510</td><td>37.77</td><td>-18.23</td><td>56.00</td><td>36.91</td><td>0.06</td><td>0.80</td><td>QP</td></tr><tr><td>14</td><td>1.510</td><td>26.11</td><td>-19.89</td><td>46.00</td><td>25.25</td><td>0.06</td><td>0.80</td><td>Average</td></tr></table></div></div> |           |                                 |        |       |             |        |         |         |  | Freq | Level | Over | Limit | Read | LISN | Cable |  |  | MHz | dBuV | Limit | Line | Level | Factor | Loss | Remark |  |  |  | dB | dBuV | dBuV | dB | dB |  | 1 | 0.1581620 | 48.78 | -16.78 | 65.56 | 48.40 | 0.02 | 0.36 | QP | 2 | 0.1581620 | 36.42 | -19.14 | 55.56 | 36.04 | 0.02 | 0.36 | Average | 3 | 0.1996860 | 51.74 | -11.88 | 63.62 | 51.22 | 0.02 | 0.50 | QP | 4 | 0.1996860 | 41.84 | -11.78 | 53.62 | 41.32 | 0.02 | 0.50 | Average | 5 | 0.2715230 | 40.29 | -20.78 | 61.07 | 39.73 | 0.02 | 0.54 | QP | 6 | 0.2715230 | 30.40 | -20.67 | 51.07 | 29.84 | 0.02 | 0.54 | Average | 7 | 0.3216920 | 45.33 | -14.33 | 59.66 | 44.73 | 0.03 | 0.57 | QP | 8 | 0.3216920 | 33.19 | -16.47 | 49.66 | 32.59 | 0.03 | 0.57 | Average | 9 | 0.4636720 | 37.40 | -19.23 | 56.63 | 36.74 | 0.03 | 0.63 | QP | 10 | 0.4636720 | 25.15 | -21.48 | 46.63 | 24.49 | 0.03 | 0.63 | Average | 11 | 0.5522610 | 39.59 | -16.41 | 56.00 | 38.88 | 0.04 | 0.67 | QP | 12 | 0.5522610 | 24.34 | -21.66 | 46.00 | 23.63 | 0.04 | 0.67 | Average | 13 | 1.510 | 37.77 | -18.23 | 56.00 | 36.91 | 0.06 | 0.80 | QP | 14 | 1.510 | 26.11 | -19.89 | 46.00 | 25.25 | 0.06 | 0.80 | Average |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Freq      | Level                           | Over   | Limit | Read        | LISN   | Cable   |         |  |      |       |      |       |      |      |       |  |  |     |      |       |      |       |        |      |        |  |  |  |    |      |      |    |    |  |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |       |       |        |       |       |      |      |    |    |       |       |        |       |       |      |      |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MHz       | dBuV                            | Limit  | Line  | Level       | Factor | Loss    | Remark  |  |      |       |      |       |      |      |       |  |  |     |      |       |      |       |        |      |        |  |  |  |    |      |      |    |    |  |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |       |       |        |       |       |      |      |    |    |       |       |        |       |       |      |      |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                 | dB     | dBuV  | dBuV        | dB     | dB      |         |  |      |       |      |       |      |      |       |  |  |     |      |       |      |       |        |      |        |  |  |  |    |      |      |    |    |  |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |       |       |        |       |       |      |      |    |    |       |       |        |       |       |      |      |         |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.1581620 | 48.78                           | -16.78 | 65.56 | 48.40       | 0.02   | 0.36    | QP      |  |      |       |      |       |      |      |       |  |  |     |      |       |      |       |        |      |        |  |  |  |    |      |      |    |    |  |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |       |       |        |       |       |      |      |    |    |       |       |        |       |       |      |      |         |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.1581620 | 36.42                           | -19.14 | 55.56 | 36.04       | 0.02   | 0.36    | Average |  |      |       |      |       |      |      |       |  |  |     |      |       |      |       |        |      |        |  |  |  |    |      |      |    |    |  |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |       |       |        |       |       |      |      |    |    |       |       |        |       |       |      |      |         |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.1996860 | 51.74                           | -11.88 | 63.62 | 51.22       | 0.02   | 0.50    | QP      |  |      |       |      |       |      |      |       |  |  |     |      |       |      |       |        |      |        |  |  |  |    |      |      |    |    |  |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |       |       |        |       |       |      |      |    |    |       |       |        |       |       |      |      |         |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.1996860 | 41.84                           | -11.78 | 53.62 | 41.32       | 0.02   | 0.50    | Average |  |      |       |      |       |      |      |       |  |  |     |      |       |      |       |        |      |        |  |  |  |    |      |      |    |    |  |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |       |       |        |       |       |      |      |    |    |       |       |        |       |       |      |      |         |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.2715230 | 40.29                           | -20.78 | 61.07 | 39.73       | 0.02   | 0.54    | QP      |  |      |       |      |       |      |      |       |  |  |     |      |       |      |       |        |      |        |  |  |  |    |      |      |    |    |  |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |       |       |        |       |       |      |      |    |    |       |       |        |       |       |      |      |         |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.2715230 | 30.40                           | -20.67 | 51.07 | 29.84       | 0.02   | 0.54    | Average |  |      |       |      |       |      |      |       |  |  |     |      |       |      |       |        |      |        |  |  |  |    |      |      |    |    |  |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |       |       |        |       |       |      |      |    |    |       |       |        |       |       |      |      |         |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.3216920 | 45.33                           | -14.33 | 59.66 | 44.73       | 0.03   | 0.57    | QP      |  |      |       |      |       |      |      |       |  |  |     |      |       |      |       |        |      |        |  |  |  |    |      |      |    |    |  |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |       |       |        |       |       |      |      |    |    |       |       |        |       |       |      |      |         |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.3216920 | 33.19                           | -16.47 | 49.66 | 32.59       | 0.03   | 0.57    | Average |  |      |       |      |       |      |      |       |  |  |     |      |       |      |       |        |      |        |  |  |  |    |      |      |    |    |  |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |       |       |        |       |       |      |      |    |    |       |       |        |       |       |      |      |         |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.4636720 | 37.40                           | -19.23 | 56.63 | 36.74       | 0.03   | 0.63    | QP      |  |      |       |      |       |      |      |       |  |  |     |      |       |      |       |        |      |        |  |  |  |    |      |      |    |    |  |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |       |       |        |       |       |      |      |    |    |       |       |        |       |       |      |      |         |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.4636720 | 25.15                           | -21.48 | 46.63 | 24.49       | 0.03   | 0.63    | Average |  |      |       |      |       |      |      |       |  |  |     |      |       |      |       |        |      |        |  |  |  |    |      |      |    |    |  |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |       |       |        |       |       |      |      |    |    |       |       |        |       |       |      |      |         |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.5522610 | 39.59                           | -16.41 | 56.00 | 38.88       | 0.04   | 0.67    | QP      |  |      |       |      |       |      |      |       |  |  |     |      |       |      |       |        |      |        |  |  |  |    |      |      |    |    |  |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |       |       |        |       |       |      |      |    |    |       |       |        |       |       |      |      |         |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.5522610 | 24.34                           | -21.66 | 46.00 | 23.63       | 0.04   | 0.67    | Average |  |      |       |      |       |      |      |       |  |  |     |      |       |      |       |        |      |        |  |  |  |    |      |      |    |    |  |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |       |       |        |       |       |      |      |    |    |       |       |        |       |       |      |      |         |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.510     | 37.77                           | -18.23 | 56.00 | 36.91       | 0.06   | 0.80    | QP      |  |      |       |      |       |      |      |       |  |  |     |      |       |      |       |        |      |        |  |  |  |    |      |      |    |    |  |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |       |       |        |       |       |      |      |    |    |       |       |        |       |       |      |      |         |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.510     | 26.11                           | -19.89 | 46.00 | 25.25       | 0.06   | 0.80    | Average |  |      |       |      |       |      |      |       |  |  |     |      |       |      |       |        |      |        |  |  |  |    |      |      |    |    |  |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |       |       |        |       |       |      |      |    |    |       |       |        |       |       |      |      |         |
| <div>Note 1: "&gt;20dB" means emission levels that exceed the level of 20 dB below the applicable limit.<br/>Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |                                 |        |       |             |        |         |         |  |      |       |      |       |      |      |       |  |  |     |      |       |      |       |        |      |        |  |  |  |    |      |      |    |    |  |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |   |           |       |        |       |       |      |      |         |   |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |           |       |        |       |       |      |      |    |    |           |       |        |       |       |      |      |         |    |       |       |        |       |       |      |      |    |    |       |       |        |       |       |      |      |         |

**AC Power-line Conducted Emissions Result**

|                    |                                 |             |      |
|--------------------|---------------------------------|-------------|------|
| Operating Mode     | 1                               | Power Phase | Line |
| Operating Function | EUT with Notebook via USB cable |             |      |



|    | Freq      | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark  |
|----|-----------|-------|------------|------------|------------|-------------|------------|---------|
|    | MHz       | dBuV  | dB         | dBuV       | dBuV       | dB          | dB         |         |
| 1  | 0.1934380 | 49.28 | -14.61     | 63.89      | 48.77      | 0.03        | 0.48       | QP      |
| 2  | 0.1934380 | 41.00 | -12.89     | 53.89      | 40.49      | 0.03        | 0.48       | Average |
| 3  | 0.2630270 | 42.31 | -19.03     | 61.34      | 41.74      | 0.03        | 0.54       | QP      |
| 4  | 0.2630270 | 32.33 | -19.01     | 51.34      | 31.76      | 0.03        | 0.54       | Average |
| 5  | 0.3338470 | 40.66 | -18.69     | 59.35      | 40.06      | 0.03        | 0.57       | QP      |
| 6  | 0.3338470 | 29.98 | -19.37     | 49.35      | 29.38      | 0.03        | 0.57       | Average |
| 7  | 0.3997440 | 36.86 | -21.00     | 57.86      | 36.23      | 0.03        | 0.60       | QP      |
| 8  | 0.3997440 | 21.93 | -25.93     | 47.86      | 21.30      | 0.03        | 0.60       | Average |
| 9  | 0.4587840 | 36.96 | -19.75     | 56.71      | 36.30      | 0.03        | 0.63       | QP      |
| 10 | 0.4587840 | 23.94 | -22.77     | 46.71      | 23.28      | 0.03        | 0.63       | Average |
| 11 | 2.580     | 19.11 | -26.89     | 46.00      | 18.27      | 0.08        | 0.76       | Average |
| 12 | 2.580     | 31.41 | -24.59     | 56.00      | 30.57      | 0.08        | 0.76       | QP      |
| 13 | 16.660    | 28.07 | -21.93     | 50.00      | 27.02      | 0.28        | 0.77       | Average |
| 14 | 16.660    | 34.45 | -25.55     | 60.00      | 33.40      | 0.28        | 0.77       | QP      |

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

## 3.2 6dB Bandwidth

### 3.2.1 6dB Bandwidth Limit

| 6dB Bandwidth Limit                                                |
|--------------------------------------------------------------------|
| <b>Systems using digital modulation techniques:</b>                |
| <input checked="" type="checkbox"/> 6 dB bandwidth $\geq$ 500 kHz. |

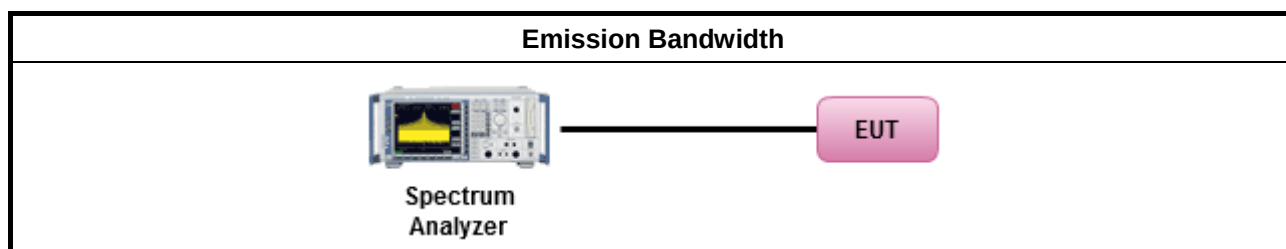
### 3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.2.3 Test Procedures

| Test Method                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> For the emission bandwidth shall be measured using one of the options below:                                                                                                                                                                                                                                                                                                                          |
| <input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 8.1 Option 1 for 6 dB bandwidth measurement.<br><input type="checkbox"/> Refer as FCC KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement.<br><input type="checkbox"/> Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.                                                                                                                  |
| <input checked="" type="checkbox"/> For conducted measurement.                                                                                                                                                                                                                                                                                                                                                                            |
| <input checked="" type="checkbox"/> The EUT supports single transmit chain and measurements performed on this transmit chain.<br><input type="checkbox"/> The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.<br><input type="checkbox"/> The EUT supports multiple transmit chains using options given below:                                                                            |
| <input checked="" type="checkbox"/> Option 1: Multiple transmit chains measurements need to be performed on one of the active transmit chains (antenna outputs). All measurement had be performed on transmit chains 1.<br><input type="checkbox"/> Option 2: Multiple transmit chains measurements need to be performed on each transmit chains individually (antenna outputs). All measurement had be performed on all transmit chains. |

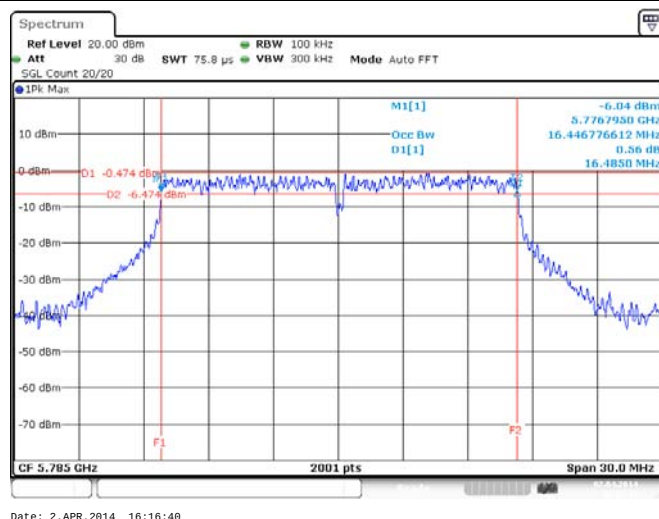
### 3.2.4 Test Setup



### 3.2.5 Test Result of Emission Bandwidth

| Emission Bandwidth Result |                 |             |                          |               |
|---------------------------|-----------------|-------------|--------------------------|---------------|
| Condition                 |                 |             | Emission Bandwidth (MHz) |               |
| Modulation Mode           | N <sub>TX</sub> | Freq. (MHz) | 99% Bandwidth            | 6dB Bandwidth |
|                           |                 |             | Chain Port 1             | Chain Port 1  |
| 11a                       | 1               | 5745        | 16.50                    | 16.54         |
| 11a                       | 1               | 5785        | 16.44                    | 16.48         |
| 11a                       | 1               | 5825        | 16.52                    | 16.56         |
| HT20,M0-7                 | 1               | 5745        | 17.76                    | 17.79         |
| HT20,M0-7                 | 1               | 5785        | 17.67                    | 17.74         |
| HT20,M0-7                 | 1               | 5825        | 17.70                    | 17.79         |
| HT40,M0-7                 | 1               | 5755        | 35.98                    | 35.12         |
| HT40,M0-7                 | 1               | 5795        | 36.06                    | 35.00         |
| VHT20,M0-8                | 1               | 5745        | 17.66                    | 17.77         |
| VHT20,M0-8                | 1               | 5785        | 17.67                    | 17.71         |
| VHT20,M0-8                | 1               | 5825        | 17.76                    | 17.70         |
| VHT40,M0-9                | 1               | 5755        | 36.02                    | 34.68         |
| VHT40,M0-9                | 1               | 5795        | 36.02                    | 34.36         |
| VHT80,M0-9                | 1               | 5775        | 74.84                    | 73.52         |
| Limit                     |                 |             | N/A                      | ≥500 kHz      |
| Result                    |                 |             | Complied                 |               |

Note 1: N<sub>TX</sub> = Number of Transmit Chains

**Worst Emission 6dB Bandwidth Plots**


### 3.3 RF Output Power

#### 3.3.1 RF Output Power Limit

| RF Output Power Limit                                                                                                                                                                                    |                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>Maximum Peak Conducted Output Power or Maximum Conducted Output Power Limit</b>                                                                                                                       |                                                                                                |
| <input checked="" type="checkbox"/> 5725-5850 MHz Band:                                                                                                                                                  |                                                                                                |
| <input checked="" type="checkbox"/>                                                                                                                                                                      | If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)                                       |
| <input checked="" type="checkbox"/>                                                                                                                                                                      | Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm |
| <input type="checkbox"/>                                                                                                                                                                                 | Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30$ dBm                     |
| <b>e.i.r.p. Power Limit:</b>                                                                                                                                                                             |                                                                                                |
| <input checked="" type="checkbox"/> 5725-5850 MHz Band                                                                                                                                                   |                                                                                                |
| <input checked="" type="checkbox"/>                                                                                                                                                                      | Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)                                |
| <input type="checkbox"/>                                                                                                                                                                                 | Point-to-point systems (P2P): N/A                                                              |
| $P_{Out}$ = maximum peak conducted output power or maximum conducted output power in dBm,<br>$G_{TX}$ = the maximum transmitting antenna directional gain in dBi.<br>$P_{eirp}$ = e.i.r.p. Power in dBm. |                                                                                                |

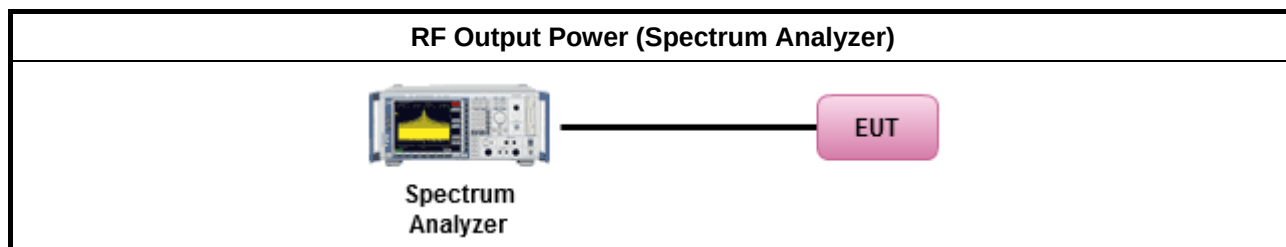
#### 3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.3.3 Test Procedures

| Test Method                         |                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Maximum Peak Conducted Output Power                                                                                                                                                                                                                                                                              |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method).                                                                                                                                                                                                                                               |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074, clause 9.1.2 Option 2 (integrated band power method).                                                                                                                                                                                                                                   |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 9.1.3 Option 2 (peak power meter for VBW ≥ DTS BW)                                                                                                                                                                                                                               |
| <input checked="" type="checkbox"/> | Maximum Conducted Output Power                                                                                                                                                                                                                                                                                   |
|                                     | [duty cycle ≥ 98% or external video / power trigger]                                                                                                                                                                                                                                                             |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074, clause 9.2.2.2 Method AVGSA-1 (spectral trace averaging).                                                                                                                                                                                                                               |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 9.2.2.3 Method AVGSA-1 Alt. (slow sweep speed)                                                                                                                                                                                                                                   |
|                                     | duty cycle < 98% and average over on/off periods with duty factor                                                                                                                                                                                                                                                |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).                                                                                                                                                                                                                               |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)                                                                                                                                                                                                                                   |
|                                     | RF power meter and average over on/off periods with duty factor or gated trigger                                                                                                                                                                                                                                 |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 9.2.3 Method AVGPM (using an RF average power meter).                                                                                                                                                                                                                            |
| <input checked="" type="checkbox"/> | For conducted measurement.                                                                                                                                                                                                                                                                                       |
| <input checked="" type="checkbox"/> | The EUT supports single transmit chain and measurements performed on this transmit chain.                                                                                                                                                                                                                        |
| <input type="checkbox"/>            | The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.                                                                                                                                                                                                              |
| <input type="checkbox"/>            | The EUT supports multiple transmit chains using options given below:<br>Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. |
| <input type="checkbox"/>            | If multiple transmit chains, EIRP calculation could be following as methods:<br>$P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm])<br>$EIRP_{total} = P_{total} + DG$                                                                                         |

### 3.3.4 Test Setup

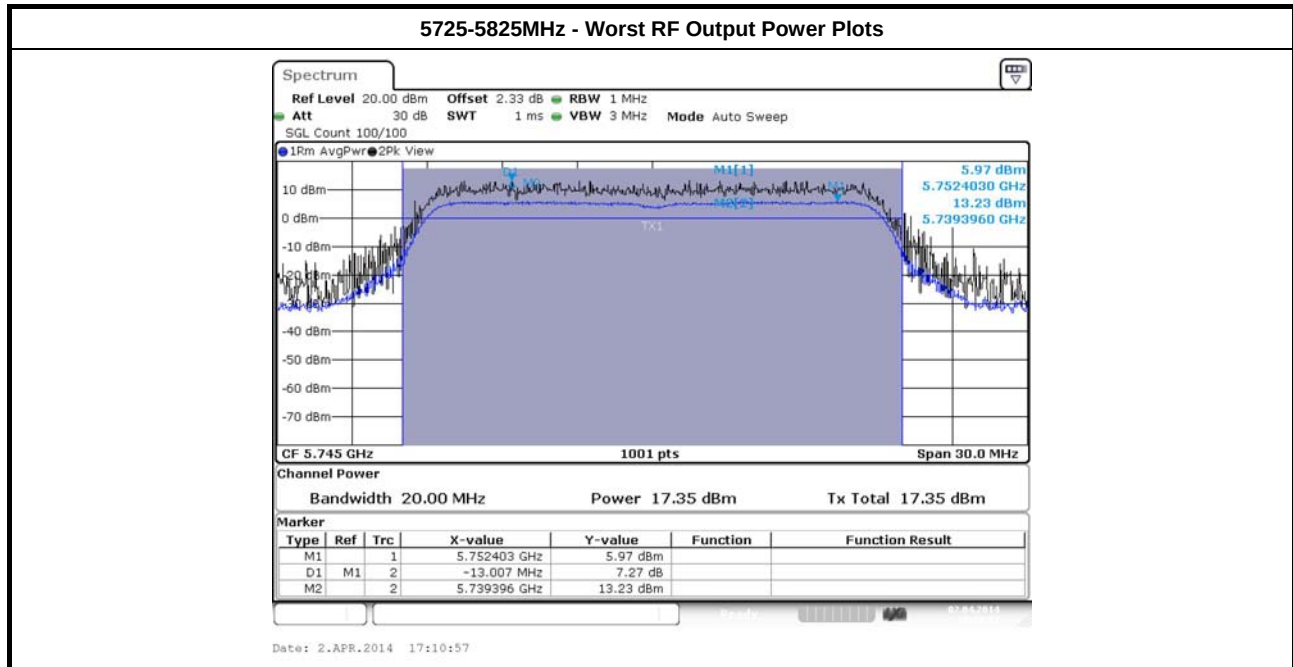


### 3.3.5 Test Result of Maximum Peak Conducted Output Power

| Maximum Peak Conducted Output Power Result |                 |             |                       |             |                 |            |            |
|--------------------------------------------|-----------------|-------------|-----------------------|-------------|-----------------|------------|------------|
| Condition                                  |                 |             | RF Output Power (dBm) |             |                 |            |            |
| Modulation Mode                            | N <sub>TX</sub> | Freq. (MHz) | RF Output Power (dBm) | Power Limit | Ant. gain (dBi) | EIRP Power | EIRP Limit |
| 11a                                        | 1               | 5745        | 22.35                 | 30.00       | 4.35            | 26.70      | 36.00      |
| 11a                                        | 1               | 5785        | 21.35                 | 30.00       | 4.35            | 25.70      | 36.00      |
| 11a                                        | 1               | 5825        | 21.61                 | 30.00       | 4.35            | 25.96      | 36.00      |
| HT20,M0-7                                  | 1               | 5745        | 22.27                 | 30.00       | 4.35            | 26.62      | 36.00      |
| HT20,M0-7                                  | 1               | 5785        | 21.59                 | 30.00       | 4.35            | 25.94      | 36.00      |
| HT20,M0-7                                  | 1               | 5825        | 21.59                 | 30.00       | 4.35            | 25.94      | 36.00      |
| HT40,M0-7                                  | 1               | 5755        | 21.49                 | 30.00       | 4.35            | 25.84      | 36.00      |
| HT40,M0-7                                  | 1               | 5795        | 22.08                 | 30.00       | 4.35            | 26.43      | 36.00      |
| VHT20,M0-8                                 | 1               | 5745        | 22.34                 | 30.00       | 4.35            | 26.69      | 36.00      |
| VHT20,M0-8                                 | 1               | 5785        | 21.46                 | 30.00       | 4.35            | 25.81      | 36.00      |
| VHT20,M0-8                                 | 1               | 5825        | 21.77                 | 30.00       | 4.35            | 26.12      | 36.00      |
| VHT40,M0-9                                 | 1               | 5755        | 21.44                 | 30.00       | 4.35            | 25.79      | 36.00      |
| VHT40,M0-9                                 | 1               | 5795        | 22.04                 | 30.00       | 4.35            | 26.39      | 36.00      |
| VHT80,M0-9                                 | 1               | 5775        | 21.48                 | 30.00       | 4.35            | 25.83      | 36.00      |
| <b>Result</b>                              |                 |             |                       |             |                 |            |            |

### 3.3.6 Test Result of Maximum Conducted Output Power

| Maximum Conducted Output Power Result |                 |             |                       |             |                 |            |            |
|---------------------------------------|-----------------|-------------|-----------------------|-------------|-----------------|------------|------------|
| Condition                             |                 |             | RF Output Power (dBm) |             |                 |            |            |
| Modulation Mode                       | N <sub>TX</sub> | Freq. (MHz) | RF Output Power (dBm) | Power Limit | Ant. gain (dBi) | EIRP Power | EIRP Limit |
| 11a                                   | 1               | 5745        | 17.35                 | 30.00       | 4.35            | 21.70      | 36.00      |
| 11a                                   | 1               | 5785        | 16.51                 | 30.00       | 4.35            | 20.86      | 36.00      |
| 11a                                   | 1               | 5825        | 16.81                 | 30.00       | 4.35            | 21.16      | 36.00      |
| HT20,M0-7                             | 1               | 5745        | 17.28                 | 30.00       | 4.35            | 21.63      | 36.00      |
| HT20,M0-7                             | 1               | 5785        | 16.58                 | 30.00       | 4.35            | 20.93      | 36.00      |
| HT20,M0-7                             | 1               | 5825        | 16.73                 | 30.00       | 4.35            | 21.08      | 36.00      |
| HT40,M0-7                             | 1               | 5755        | 16.71                 | 30.00       | 4.35            | 21.06      | 36.00      |
| HT40,M0-7                             | 1               | 5795        | 17.29                 | 30.00       | 4.35            | 21.64      | 36.00      |
| VHT20,M0-8                            | 1               | 5745        | 17.35                 | 30.00       | 4.35            | 21.70      | 36.00      |
| VHT20,M0-8                            | 1               | 5785        | 16.41                 | 30.00       | 4.35            | 20.76      | 36.00      |
| VHT20,M0-8                            | 1               | 5825        | 16.72                 | 30.00       | 4.35            | 21.07      | 36.00      |
| VHT40,M0-9                            | 1               | 5755        | 16.72                 | 30.00       | 4.35            | 21.07      | 36.00      |
| VHT40,M0-9                            | 1               | 5795        | 17.21                 | 30.00       | 4.35            | 21.56      | 36.00      |
| VHT80,M0-9                            | 1               | 5775        | 16.72                 | 30.00       | 4.35            | 21.07      | 36.00      |
| Result                                |                 |             |                       |             |                 |            |            |



Note 1: RF Output Power Plots w/o Duty Factor

### 3.4 Power Spectral Density

#### 3.4.1 Power Spectral Density Limit

| Power Spectral Density Limit        |                                                |
|-------------------------------------|------------------------------------------------|
| <input checked="" type="checkbox"/> | Power Spectral Density (PSD) $\leq$ 8 dBm/3kHz |

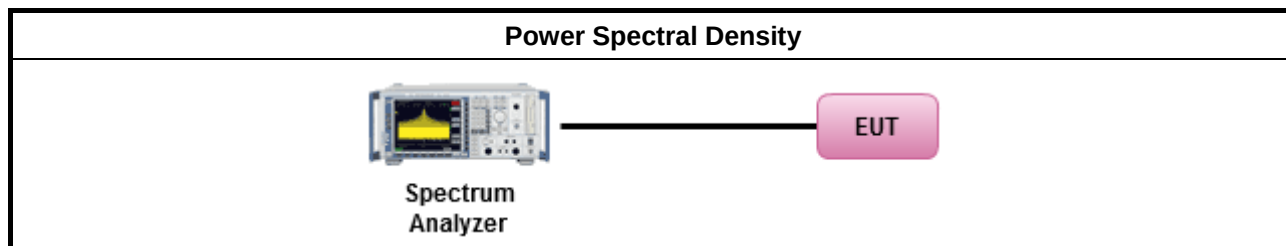
#### 3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

#### 3.4.3 Test Procedures

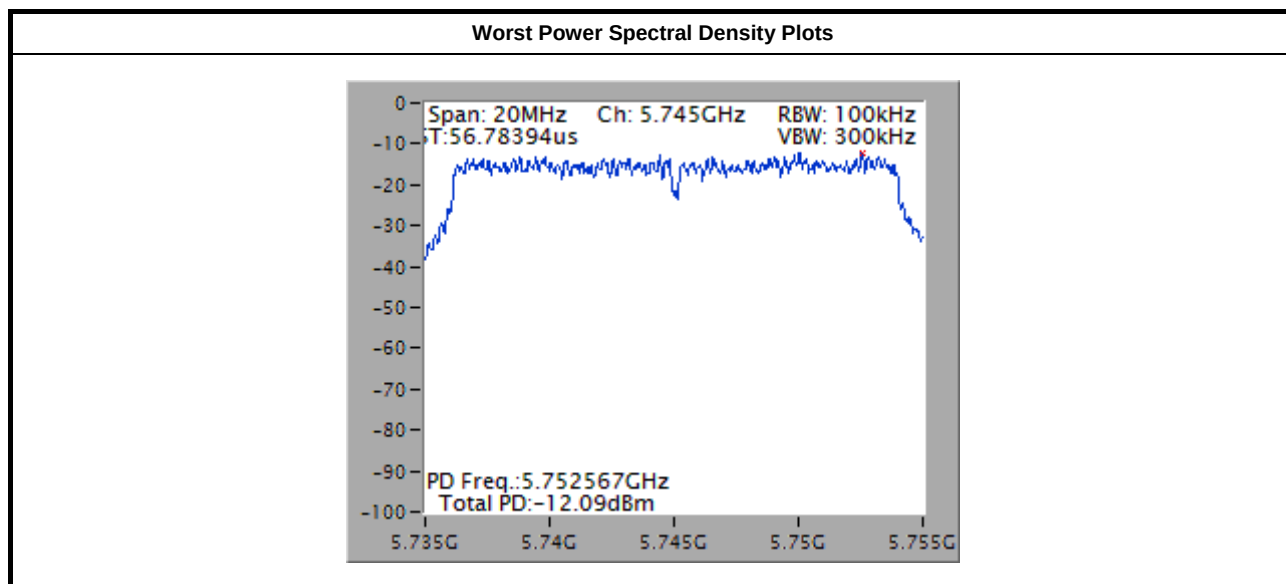
| Test Method                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).                                                                                                                                   |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz;detector=peak)..<br>[duty cycle $\geq$ 98% or external video / power trigger]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074, clause 10.3 Method AVGPS-1 (spectral trace averaging).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 10.4 Method AVGPS-1 Alt. (slow sweep speed)<br>duty cycle < 98% and average over on/off periods with duty factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 10.5 Method AVGPS-2 (spectral trace averaging).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 10.6 Method AVGPS-2 Alt. (slow sweep speed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <input checked="" type="checkbox"/> | For conducted measurement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <input checked="" type="checkbox"/> | The EUT supports single transmit chain and measurements performed on this transmit chain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <input type="checkbox"/>            | The EUT supports diversity transmitting and the results on transmit chain port 1 is the worst case.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <input type="checkbox"/>            | The EUT supports multiple transmit chains using options given below:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <input type="checkbox"/>            | Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the N <sub>TX</sub> output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace. |
| <input type="checkbox"/>            | Option 2: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.                                                                                                                                                                                                                                                                                                                              |

### 3.4.4 Test Setup



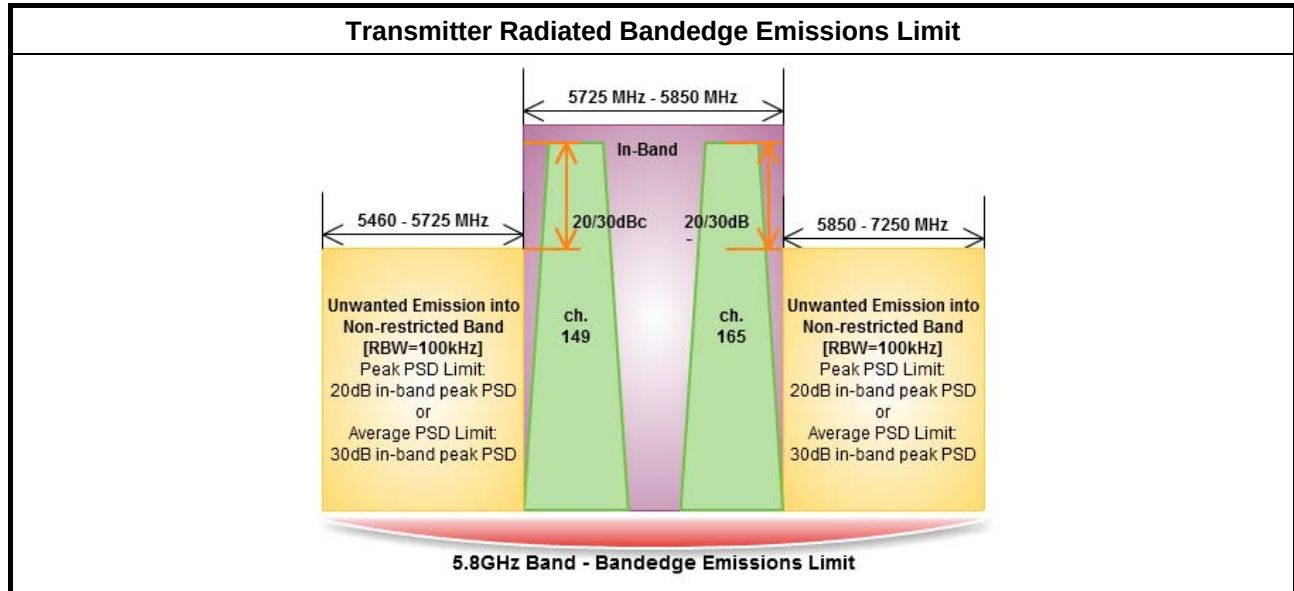
### 3.4.5 Test Result of Power Spectral Density

| Power Spectral Density Result |                 |             |                                     |                        |
|-------------------------------|-----------------|-------------|-------------------------------------|------------------------|
| Condition                     |                 |             | Power Spectral Density              |                        |
| Modulation Mode               | N <sub>TX</sub> | Freq. (MHz) | Power Spectral Density (dBm/100kHz) | Power Limit (dBm/3kHz) |
| 11a                           | 1               | 5745        | -12.36                              | 8.00                   |
| 11a                           | 1               | 5785        | -13.16                              | 8.00                   |
| 11a                           | 1               | 5825        | -13.03                              | 8.00                   |
| HT20,M0-7                     | 1               | 5745        | -12.10                              | 8.00                   |
| HT20,M0-7                     | 1               | 5785        | -13.14                              | 8.00                   |
| HT20,M0-7                     | 1               | 5825        | -13.29                              | 8.00                   |
| HT40,M0-7                     | 1               | 5755        | -15.18                              | 8.00                   |
| HT40,M0-7                     | 1               | 5795        | -13.95                              | 8.00                   |
| VHT20,M0-8                    | 1               | 5745        | -12.09                              | 8.00                   |
| VHT20,M0-8                    | 1               | 5785        | -13.27                              | 8.00                   |
| VHT20,M0-8                    | 1               | 5825        | -13.50                              | 8.00                   |
| VHT40,M0-9                    | 1               | 5755        | -15.27                              | 8.00                   |
| VHT40,M0-9                    | 1               | 5795        | -14.09                              | 8.00                   |
| VHT80,M0-9                    | 1               | 5775        | -15.33                              | 8.00                   |
| <b>Result</b>                 |                 |             | <b>Complied</b>                     |                        |



### 3.5 Transmitter Bandedge Emissions

#### 3.5.1 Transmitter Radiated Bandedge Emissions Limit



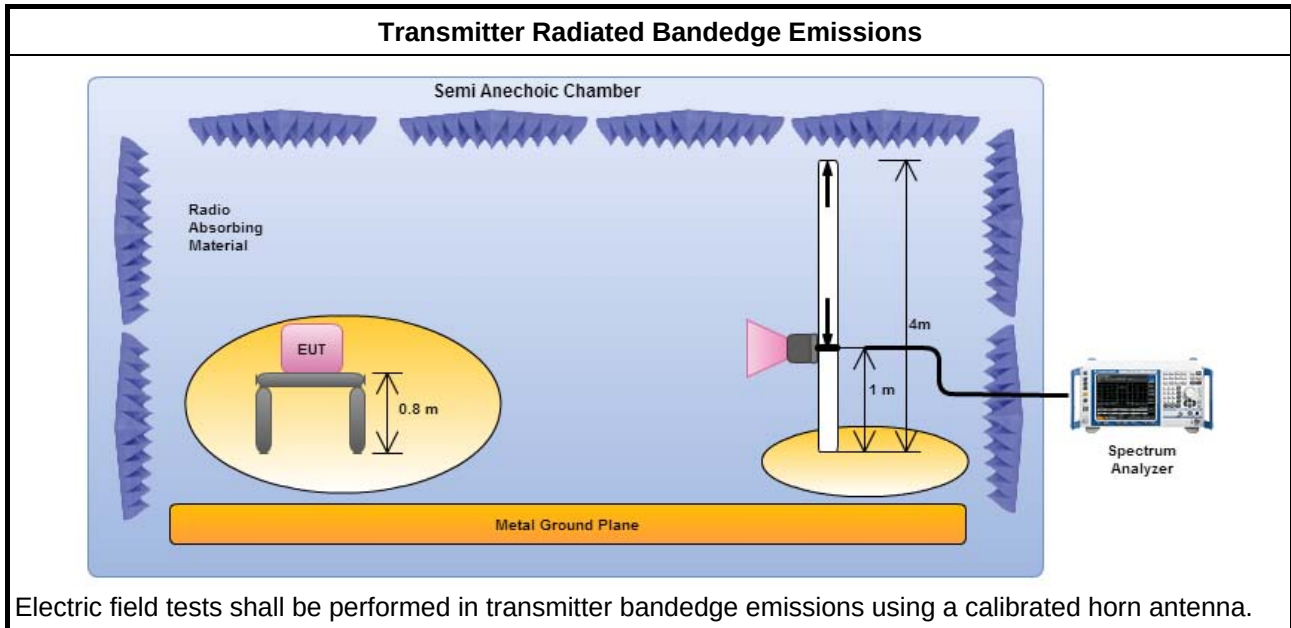
#### 3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.5.3 Test Procedures

| Test Method                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.9.2.2 bandedge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <input checked="" type="checkbox"/> | For the transmitter unwanted emissions shall be measured using following options below:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074, clause 11 for unwanted emissions into non-restricted bands.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq$ 98%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW $\geq$ 1/T).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <input type="checkbox"/>            | Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074, clause 11.3 and 12.2.4 measurement procedure peak limit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <input checked="" type="checkbox"/> | For the transmitter bandedge emissions shall be measured using following options below:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.9.2 for band-edge testing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <input type="checkbox"/>            | Refer as ANSI C63.10, clause 6.9.3 for marker-delta method for band-edge measurements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <input checked="" type="checkbox"/> | For radiated measurement, refer as FCC KDB 558074, clause 12.2.7 and ANSI C63.10, clause 6.6. Test distance is 1m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <input checked="" type="checkbox"/> | Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). Measurements in the bandedge are typically made at a closer distance 1m, because the instrumentation noise floor is typically close to the radiated emission limit. |

### 3.5.4 Test Setup



### 3.5.5 Transmitter Radiated Bandedge Emissions

| 5725-5850MHz Transmitter Radiated Bandedge Emissions                |                 |                  |                               |             |                                |                |            |      |
|---------------------------------------------------------------------|-----------------|------------------|-------------------------------|-------------|--------------------------------|----------------|------------|------|
| Modulation                                                          | N <sub>TX</sub> | Test Freq. (MHz) | In-band PSD [i] (dBuV/100kHz) | Freq. (MHz) | Out-band PSD [o] (dBuV/100kHz) | [i] – [o] (dB) | Limit (dB) | Pol. |
| 11a                                                                 | 1               | 5745             | 114.36                        | 5724.41     | 79.02                          | 35.34          | 20         | H    |
| 11a                                                                 | 1               | 5825             | 114.67                        | 5850.09     | 77.93                          | 36.74          | 20         | H    |
| HT20,M0-7                                                           | 1               | 5745             | 114.36                        | 5724.41     | 80.59                          | 33.77          | 20         | H    |
| HT20,M0-7                                                           | 1               | 5825             | 114.56                        | 5850.09     | 77.72                          | 36.84          | 20         | H    |
| HT40,M0-7                                                           | 1               | 5755             | 112.33                        | 5724.30     | 80.30                          | 32.03          | 20         | H    |
| HT40,M0-7                                                           | 1               | 5795             | 112.93                        | 5852.60     | 75.26                          | 37.67          | 20         | H    |
| VHT20,M0-8                                                          | 1               | 5745             | 114.72                        | 5724.97     | 79.66                          | 35.06          | 20         | H    |
| VHT20,M0-8                                                          | 1               | 5825             | 115.08                        | 5851.25     | 76.97                          | 38.11          | 20         | H    |
| VHT40,M0-9                                                          | 1               | 5755             | 112.91                        | 5724.60     | 83.73                          | 29.18          | 20         | H    |
| VHT40,M0-9                                                          | 1               | 5795             | 112.71                        | 5852.60     | 74.70                          | 38.01          | 20         | H    |
| VHT80,M0-9                                                          | 1               | 5775             | 110.23                        | 5850.62     | 78.97                          | 31.26          | 20         | H    |
| Note 1: Measurement worst emissions of receive antenna polarization |                 |                  |                               |             |                                |                |            |      |

### 3.6 Transmitter Unwanted Emissions

#### 3.6.1 Transmitter Radiated Unwanted Emissions Limit

| Restricted Band Emissions Limit |                       |                         |                      |
|---------------------------------|-----------------------|-------------------------|----------------------|
| Frequency Range (MHz)           | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) |
| 0.009~0.490                     | 2400/F(kHz)           | 48.5 - 13.8             | 300                  |
| 0.490~1.705                     | 24000/F(kHz)          | 33.8 - 23               | 30                   |
| 1.705~30.0                      | 30                    | 29                      | 30                   |
| 30~88                           | 100                   | 40                      | 3                    |
| 88~216                          | 150                   | 43.5                    | 3                    |
| 216~960                         | 200                   | 46                      | 3                    |
| Above 960                       | 500                   | 54                      | 3                    |

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

| Un-restricted Band Emissions Limit |            |
|------------------------------------|------------|
| RF output power procedure          | Limit (dB) |
| Peak output power procedure        | 20         |
| Average output power procedure     | 30         |

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

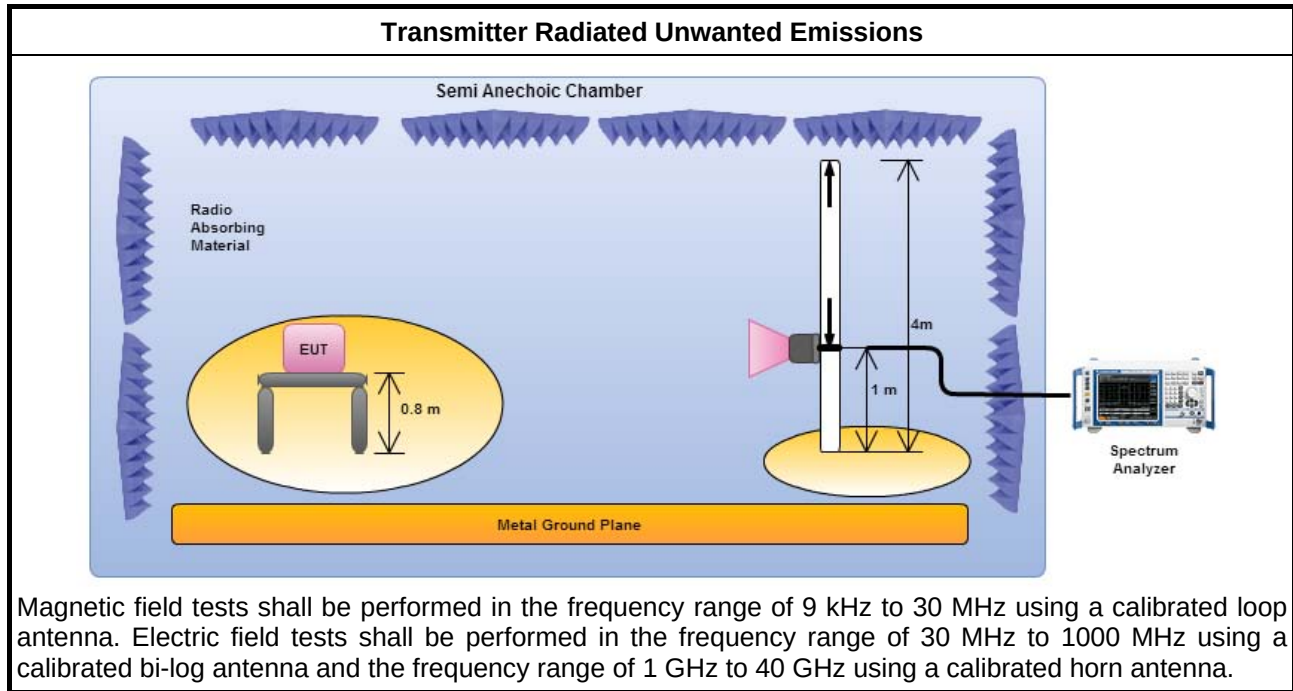
#### 3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

### 3.6.3 Test Procedures

| Test Method                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements). |
| <input checked="" type="checkbox"/> | The average emission levels shall be measured in [duty cycle $\geq 98$ or duty factor].                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input checked="" type="checkbox"/> | For the transmitter unwanted emissions shall be measured using following options below:                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074, clause 11 for unwanted emissions into non-restricted bands.                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq 98\%$ )                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <input type="checkbox"/>            | Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW $\geq 1/T$ ).                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq 1/T$ , where T is pulse time.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <input type="checkbox"/>            | Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074, clause 11.3 and 12.2.4 measurement procedure peak limit.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <input checked="" type="checkbox"/> | Refer as FCC KDB 558074, clause 12.2.3 measurement procedure Quasi-Peak limit.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <input checked="" type="checkbox"/> | For radiated measurement, refer as FCC KDB 558074, clause 12.2.7.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <input checked="" type="checkbox"/> | Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.<br>For 1 GHz to 5 GHz, test distance is 3m; For 5 GHz to 40 GHz, test distance is 1m.                                                                                                                                                                                                                                                                                                                                                                   |
| <input checked="" type="checkbox"/> | The any unwanted emissions level shall not exceed the fundamental emission level.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <input checked="" type="checkbox"/> | All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.                                                                                                                                                                                                                                                                                                                                                                                          |

### 3.6.4 Test Setup



### 3.6.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

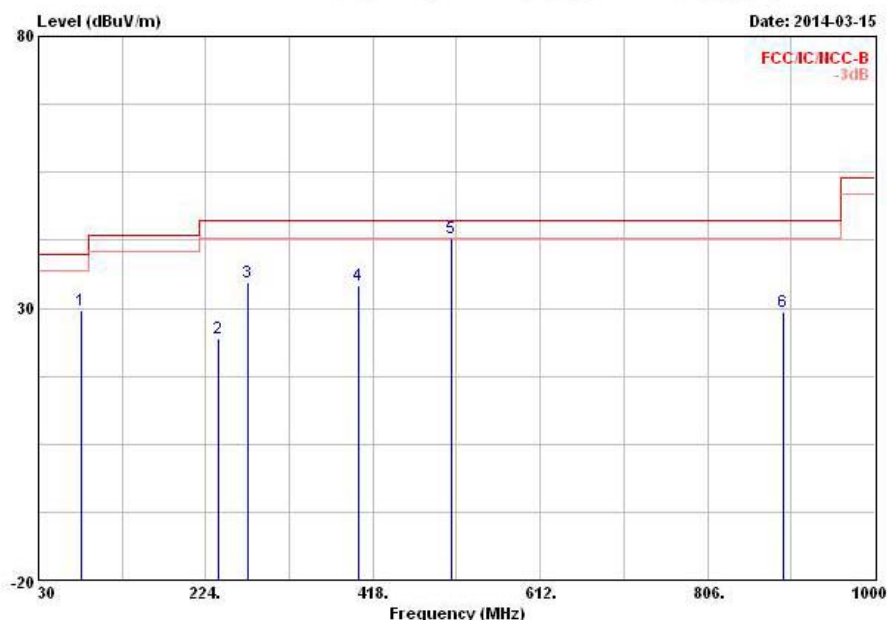
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

### 3.6.6 Transmitter Radiated Unwanted Emissions (Below 1GHz)



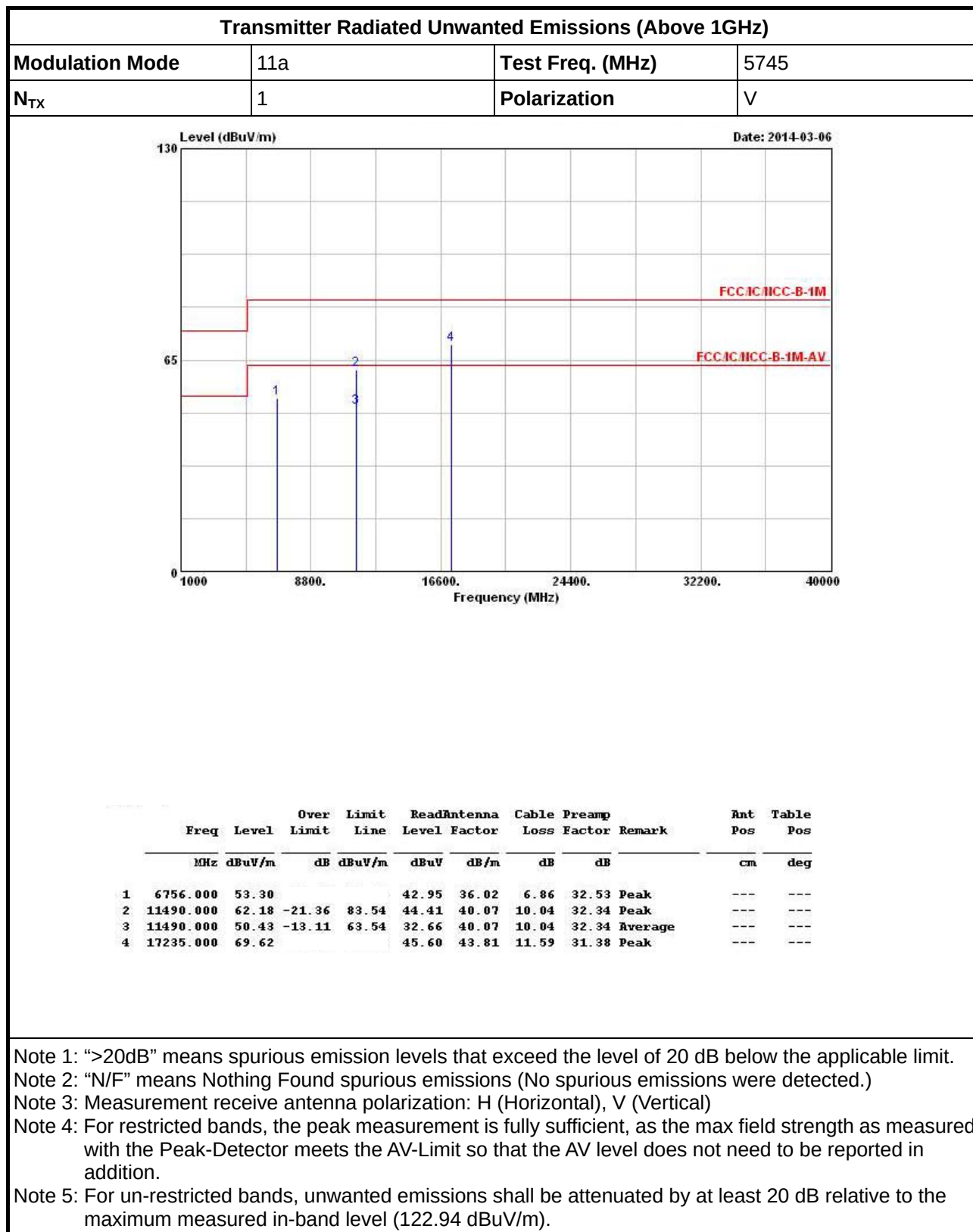
**Transmitter Radiated Unwanted Emissions (Below 1GHz)**

|                    |                                 |              |   |
|--------------------|---------------------------------|--------------|---|
| Operating Mode     | 1                               | Polarization | H |
| Operating Function | EUT with Notebook via USB cable |              |   |



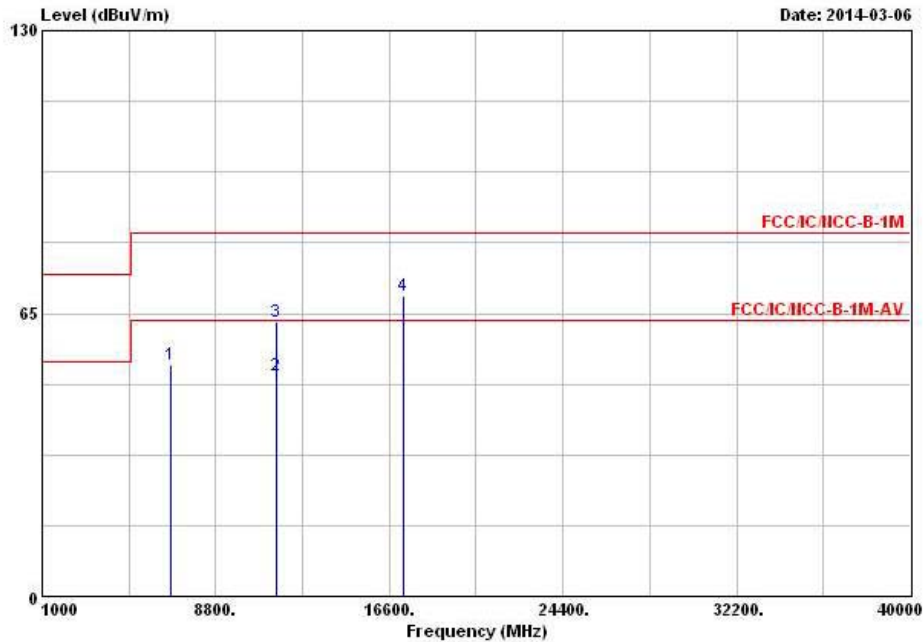
|   | Freq    | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp |        | Ant  | Table |
|---|---------|--------|--------|--------|-------------|--------|--------|--------|------|-------|
|   | MHz     | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos  | Pos   |
|   | MHz     | dBuV/m | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm   | deg   |
| 1 | 79.470  | 29.48  | -10.52 | 40.00  | 48.32       | 7.19   | 1.43   | 27.46  | Peak | ---   |
| 2 | 238.550 | 24.49  | -21.51 | 46.00  | 37.21       | 11.60  | 2.55   | 26.87  | Peak | ---   |
| 3 | 272.500 | 34.68  | -11.32 | 46.00  | 45.75       | 12.94  | 2.74   | 26.75  | Peak | ---   |
| 4 | 400.540 | 34.13  | -11.87 | 46.00  | 42.43       | 15.70  | 3.34   | 27.34  | Peak | ---   |
| 5 | 509.180 | 42.96  | -3.04  | 46.00  | 49.85       | 17.19  | 3.81   | 27.89  | Peak | ---   |
| 6 | 893.300 | 29.32  | -16.68 | 46.00  | 31.29       | 20.45  | 5.15   | 27.57  | Peak | ---   |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

**3.6.7 Transmitter Radiated Unwanted Emissions (Above 1GHz)**


## Transmitter Radiated Unwanted Emissions (Above 1GHz)

|                 |     |                  |      |
|-----------------|-----|------------------|------|
| Modulation Mode | 11a | Test Freq. (MHz) | 5745 |
| N <sub>TX</sub> | 1   | Polarization     | H    |



|   | Freq      | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Remark  | Ant Pos | Table Pos |
|---|-----------|--------|------------|------------|-------------------|----------------|------------|---------------|---------|---------|-----------|
|   | MHz       | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB            |         | cm      | deg       |
| 1 | 6786.000  | 53.17  |            |            | 42.79             | 36.06          | 6.86       | 32.54         | Peak    | ---     | ---       |
| 2 | 11490.000 | 50.70  | -12.84     | 63.54      | 32.93             | 40.07          | 10.04      | 32.34         | Average | ---     | ---       |
| 3 | 11490.000 | 63.05  | -20.49     | 83.54      | 45.28             | 40.07          | 10.04      | 32.34         | Peak    | ---     | ---       |
| 4 | 17235.000 | 69.14  |            |            | 45.12             | 43.81          | 11.59      | 31.38         | Peak    | ---     | ---       |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

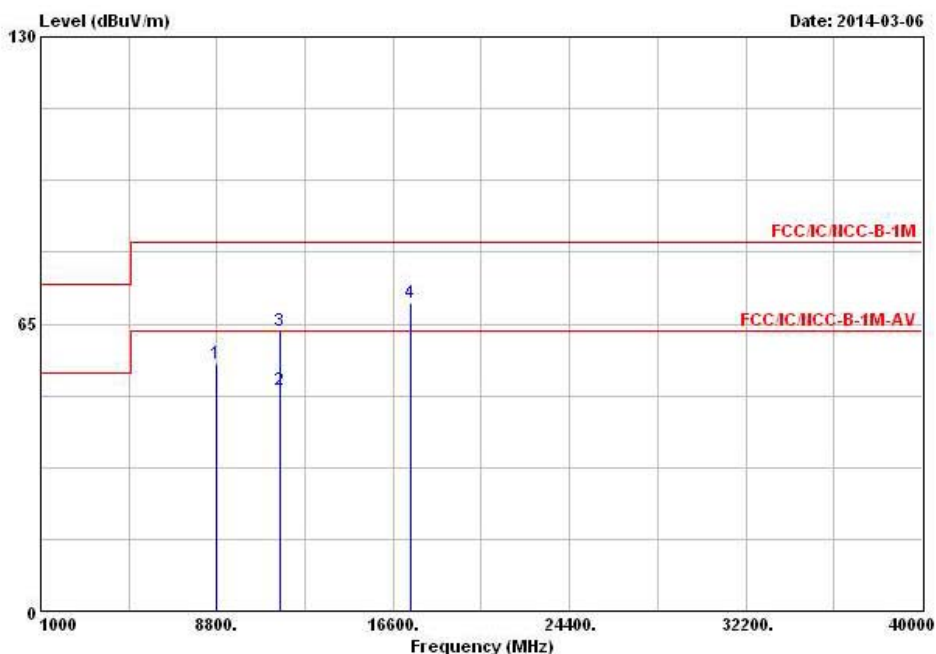
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (122.94 dBuV/m).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |     |                         |      |
|------------------------|-----|-------------------------|------|
| <b>Modulation Mode</b> | 11a | <b>Test Freq. (MHz)</b> | 5785 |
| <b>N<sub>TX</sub></b>  | 1   | <b>Polarization</b>     | V    |



|   | Freq      | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Remark  | Ant Pos | Table Pos |
|---|-----------|--------|------------|------------|-------------------|----------------|------------|---------------|---------|---------|-----------|
|   | MHz       | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB            |         | cm      | deg       |
| 1 | 8778.000  | 55.85  |            |            | 42.51             | 38.36          | 7.88       | 32.90         | Peak    | ---     | ---       |
| 2 | 11570.000 | 50.03  | -13.51     | 63.54      | 32.30             | 40.04          | 10.04      | 32.35         | Average | ---     | ---       |
| 3 | 11570.000 | 63.36  | -20.18     | 83.54      | 45.63             | 40.04          | 10.04      | 32.35         | Peak    | ---     | ---       |
| 4 | 17355.000 | 69.71  |            |            | 44.46             | 44.81          | 11.85      | 31.41         | Peak    | ---     | ---       |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

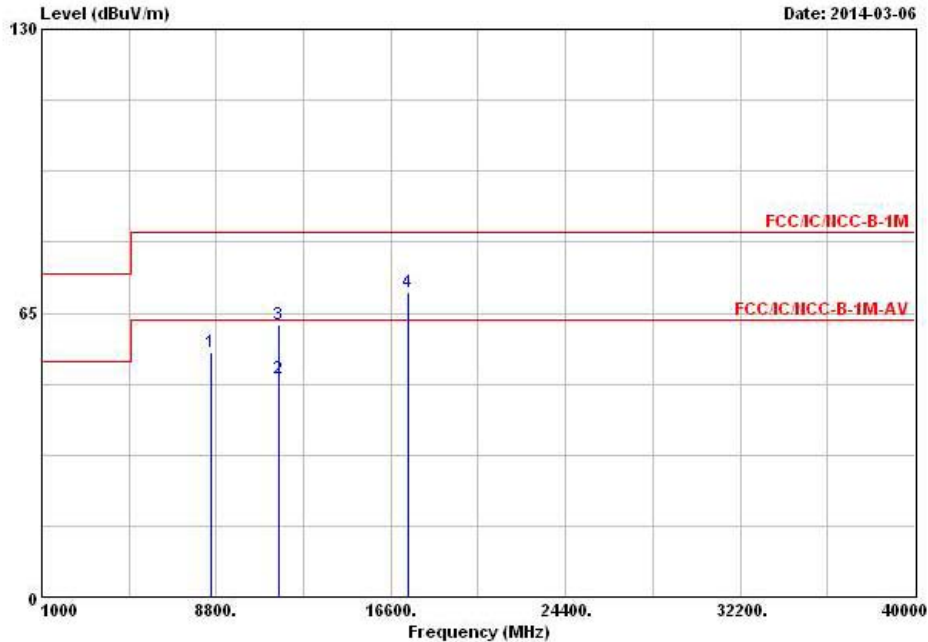
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (123.26 dBuV/m).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |     |                         |      |
|------------------------|-----|-------------------------|------|
| <b>Modulation Mode</b> | 11a | <b>Test Freq. (MHz)</b> | 5785 |
| <b>N<sub>TX</sub></b>  | 1   | <b>Polarization</b>     | H    |



|   | Freq      | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Remark  | Ant Pos | Table Pos |
|---|-----------|--------|------------|------------|-------------------|----------------|------------|---------------|---------|---------|-----------|
|   | MHz       | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB            |         | cm      | deg       |
| 1 | 8586.000  | 56.07  |            |            | 42.36             | 38.60          | 7.95       | 32.84         | Peak    | ---     | ---       |
| 2 | 11570.000 | 49.94  | -13.60     | 63.54      | 32.21             | 40.04          | 10.04      | 32.35         | Average | ---     | ---       |
| 3 | 11570.000 | 62.47  | -21.07     | 83.54      | 44.74             | 40.04          | 10.04      | 32.35         | Peak    | ---     | ---       |
| 4 | 17355.000 | 69.68  |            |            | 44.43             | 44.81          | 11.85      | 31.41         | Peak    | ---     | ---       |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

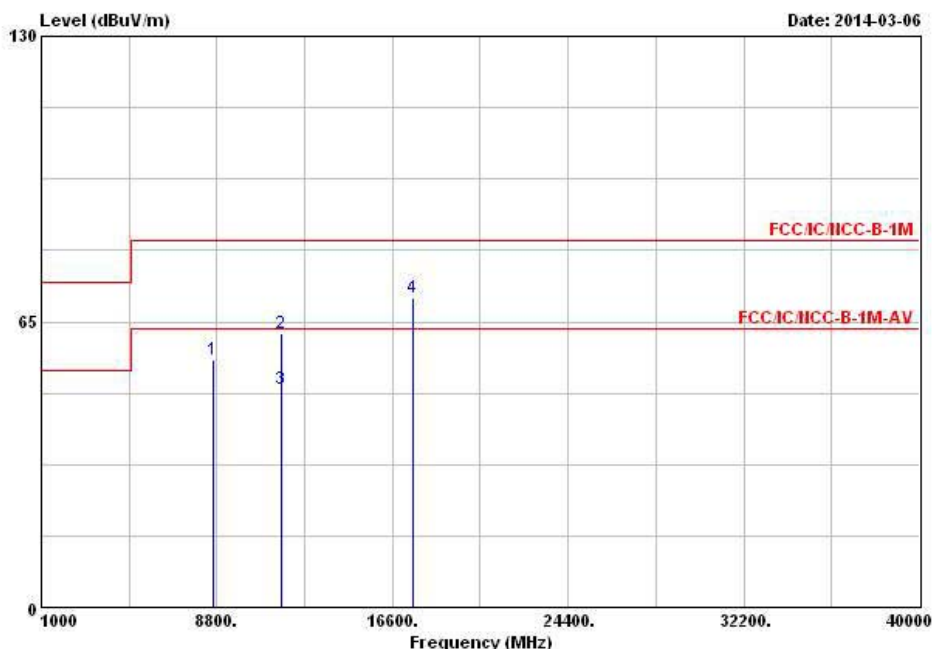
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (123.26 dBuV/m).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |     |                         |      |
|------------------------|-----|-------------------------|------|
| <b>Modulation Mode</b> | 11a | <b>Test Freq. (MHz)</b> | 5825 |
| <b>N<sub>TX</sub></b>  | 1   | <b>Polarization</b>     | V    |



|   | Freq      | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp |         | Ant | Table |
|---|-----------|--------|--------|--------|-------|---------|-------|--------|---------|-----|-------|
|   | MHz       | dBuV/m | Limit  | Line   | Level | Factor  | Loss  | Factor | Remark  | Pos | Pos   |
|   | MHz       | dBuV/m | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     |         | cm  | deg   |
| 1 | 8622.000  | 56.53  |        |        | 42.87 | 38.56   | 7.95  | 32.85  | Peak    | --- | ---   |
| 2 | 11650.000 | 62.27  | -21.27 | 83.54  | 44.61 | 39.99   | 10.03 | 32.36  | Peak    | --- | ---   |
| 3 | 11650.000 | 49.79  | -13.75 | 63.54  | 32.13 | 39.99   | 10.03 | 32.36  | Average | --- | ---   |
| 4 | 17475.000 | 70.37  |        |        | 43.90 | 45.81   | 12.11 | 31.45  | Peak    | --- | ---   |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

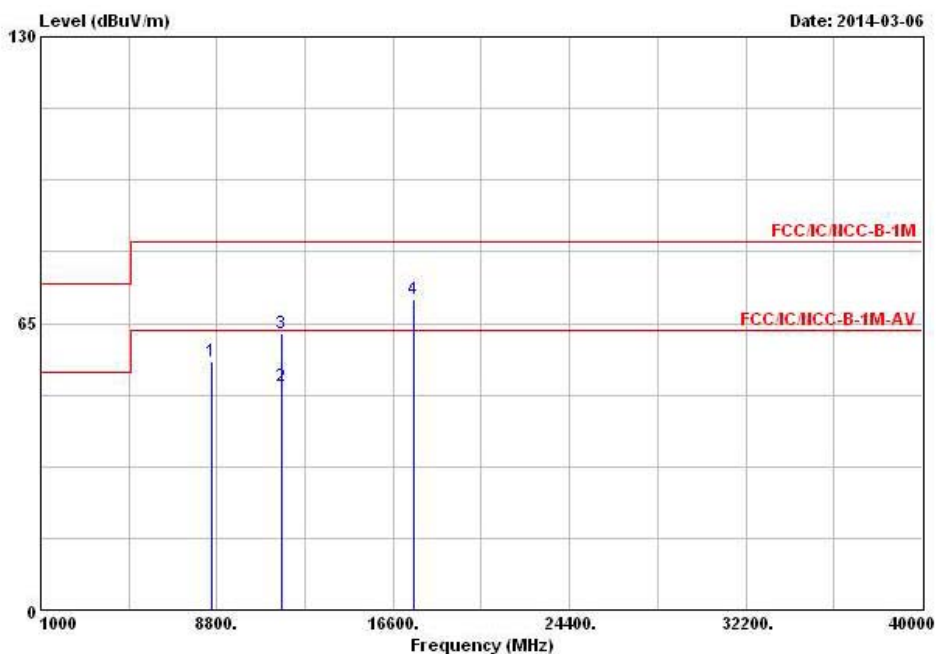
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (123.59 dBuV/m).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |     |                         |      |
|------------------------|-----|-------------------------|------|
| <b>Modulation Mode</b> | 11a | <b>Test Freq. (MHz)</b> | 5825 |
| <b>N<sub>TX</sub></b>  | 1   | <b>Polarization</b>     | H    |



|   | Freq      | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Remark  | Ant Pos | Table Pos |
|---|-----------|--------|------------|------------|-------------------|----------------|------------|---------------|---------|---------|-----------|
|   | MHz       | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB            |         | cm      | deg       |
| 1 | 8598.000  | 56.27  |            |            | 42.58             | 38.58          | 7.95       | 32.84         | Peak    | ---     | ---       |
| 2 | 11650.000 | 50.81  | -12.73     | 63.54      | 33.15             | 39.99          | 10.03      | 32.36         | Average | ---     | ---       |
| 3 | 11650.000 | 62.86  | -20.68     | 83.54      | 45.20             | 39.99          | 10.03      | 32.36         | Peak    | ---     | ---       |
| 4 | 17475.000 | 70.40  |            |            | 43.93             | 45.81          | 12.11      | 31.45         | Peak    | ---     | ---       |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

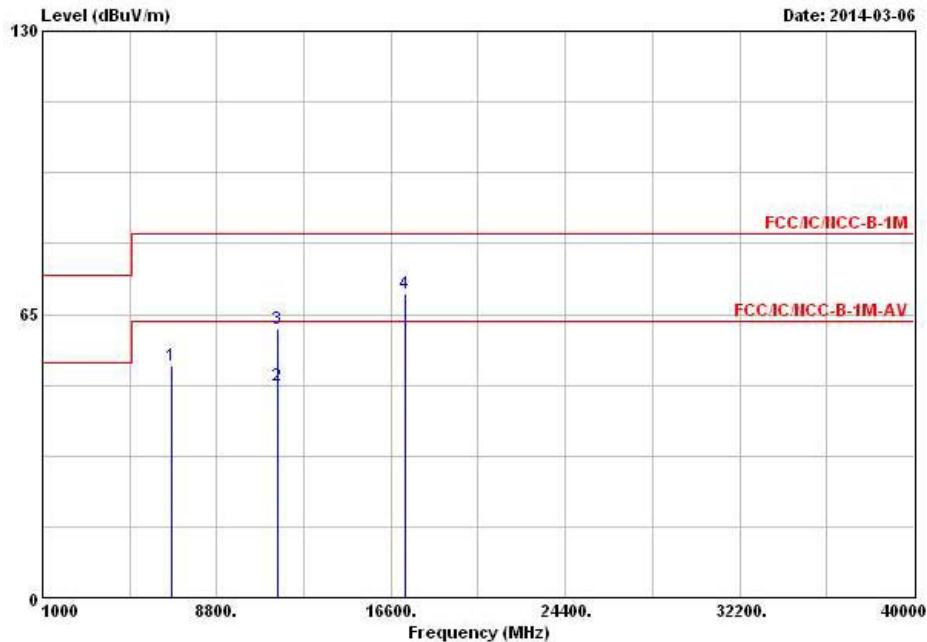
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (123.59 dBuV/m).

## Transmitter Radiated Unwanted Emissions (Above 1GHz)

|                 |      |                  |      |
|-----------------|------|------------------|------|
| Modulation Mode | HT20 | Test Freq. (MHz) | 5745 |
| N <sub>TX</sub> | 1    | Polarization     | V    |

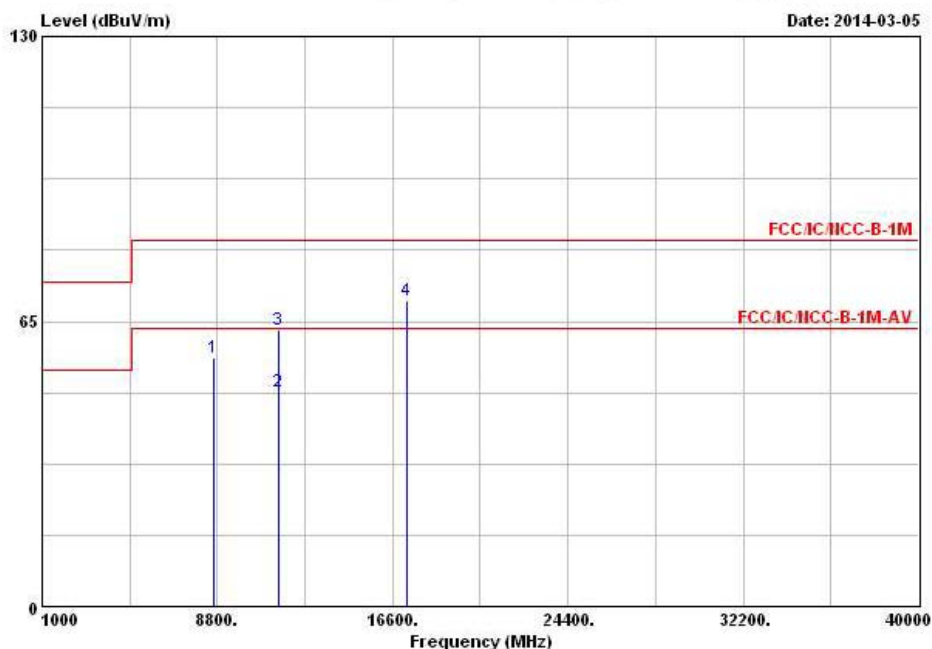


|   | Freq      | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Remark  | Ant Pos | Table Pos |
|---|-----------|--------|------------|------------|-------------------|----------------|------------|---------------|---------|---------|-----------|
|   | MHz       | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB            |         | cm      | deg       |
| 1 | 6756.000  | 53.20  |            |            | 42.85             | 36.02          | 6.86       | 32.53         | Peak    | ---     | ---       |
| 2 | 11490.000 | 48.57  | -14.97     | 63.54      | 30.80             | 40.07          | 10.04      | 32.34         | Average | ---     | ---       |
| 3 | 11490.000 | 61.57  | -21.97     | 83.54      | 43.80             | 40.07          | 10.04      | 32.34         | Peak    | ---     | ---       |
| 4 | 17235.000 | 69.76  |            |            | 45.74             | 43.81          | 11.59      | 31.38         | Peak    | ---     | ---       |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)  
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.  
 Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (123.46 dBuV/m).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |      |                         |      |
|------------------------|------|-------------------------|------|
| <b>Modulation Mode</b> | HT20 | <b>Test Freq. (MHz)</b> | 5745 |
| <b>N<sub>TX</sub></b>  | 1    | <b>Polarization</b>     | H    |



|   | Freq      | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Remark  | Ant Pos | Table Pos |
|---|-----------|--------|------------|------------|-------------------|----------------|------------|---------------|---------|---------|-----------|
|   | MHz       | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB            |         | cm      | deg       |
| 1 | 8658.000  | 56.65  |            |            | 43.06             | 38.52          | 7.93       | 32.86         | Peak    | ---     | ---       |
| 2 | 11490.000 | 48.98  | -14.56     | 63.54      | 31.21             | 40.07          | 10.04      | 32.34         | Average | ---     | ---       |
| 3 | 11490.000 | 63.21  | -20.33     | 83.54      | 45.44             | 40.07          | 10.04      | 32.34         | Peak    | ---     | ---       |
| 4 | 17235.000 | 69.91  |            |            | 45.89             | 43.81          | 11.59      | 31.38         | Peak    | ---     | ---       |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

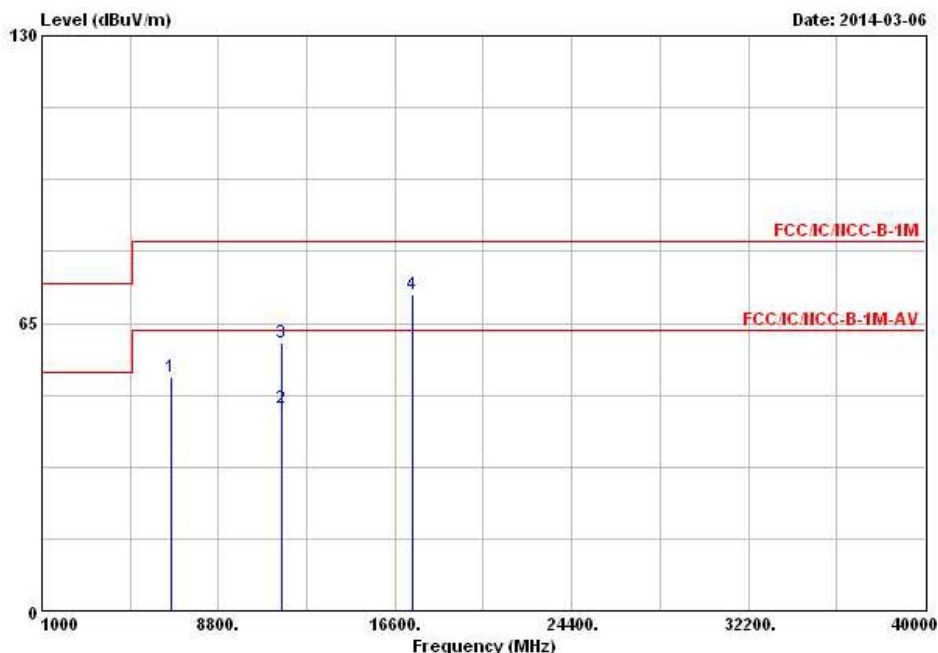
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (123.46 dBuV/m).

### Transmitter Radiated Unwanted Emissions (Above 1GHz)

|                 |      |                  |      |
|-----------------|------|------------------|------|
| Modulation Mode | HT20 | Test Freq. (MHz) | 5785 |
| N <sub>TX</sub> | 1    | Polarization     | V    |



|   | Freq      | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp |        | Ant     | Table |
|---|-----------|--------|--------|--------|-------------|--------|--------|--------|---------|-------|
|   | MHz       | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos     | Pos   |
|   | MHz       | dBuV/m | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm      | deg   |
| 1 | 6696.000  | 52.72  |        |        | 42.58       | 35.86  | 6.80   | 32.52  | Peak    | ---   |
| 2 | 11570.000 | 45.77  | -17.77 | 63.54  | 28.04       | 40.04  | 10.04  | 32.35  | Average | ---   |
| 3 | 11570.000 | 60.51  | -23.03 | 83.54  | 42.78       | 40.04  | 10.04  | 32.35  | Peak    | ---   |
| 4 | 17355.000 | 71.69  |        |        | 46.44       | 44.81  | 11.85  | 31.41  | Peak    | ---   |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

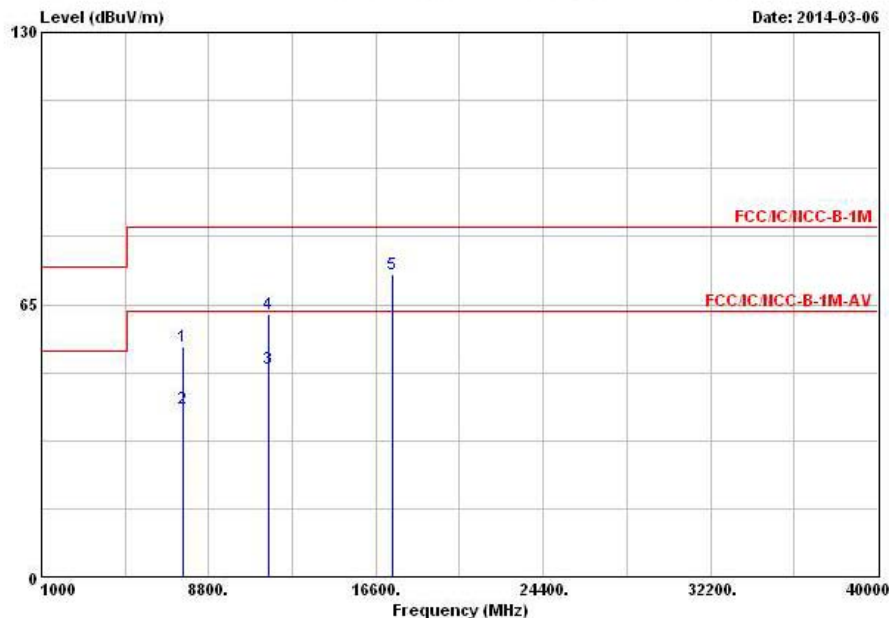
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (123.31 dBuV/m).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |      |                         |      |
|------------------------|------|-------------------------|------|
| <b>Modulation Mode</b> | HT20 | <b>Test Freq. (MHz)</b> | 5785 |
| <b>N<sub>TX</sub></b>  | 1    | <b>Polarization</b>     | H    |

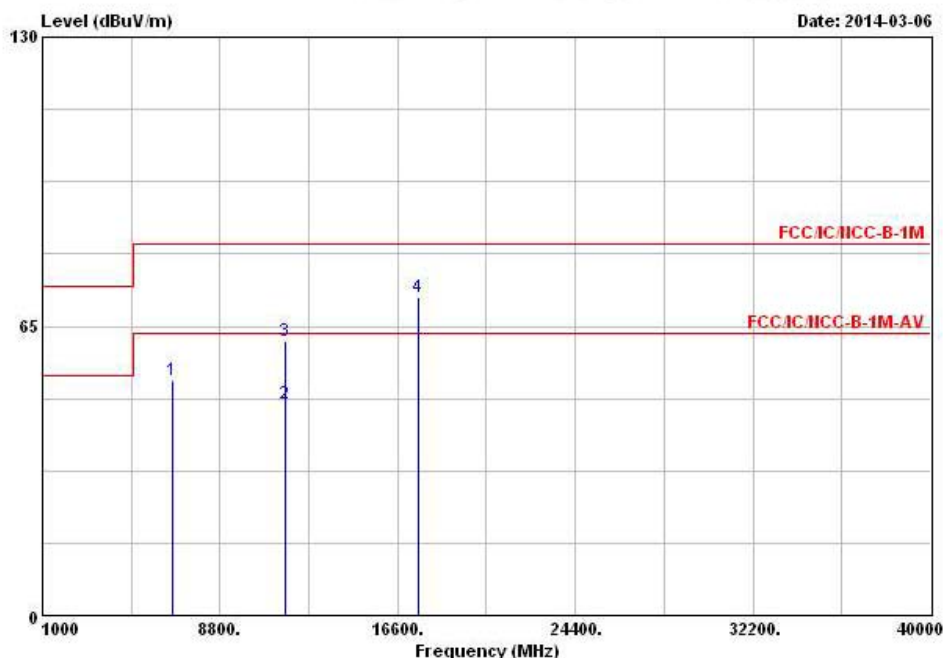


|   | Freq       | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp |        | Rnt     | Table |
|---|------------|--------|--------|--------|-------------|--------|--------|--------|---------|-------|
|   | MHz        | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos     | Pos   |
|   | MHz        | dBuV/m | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm      | deg   |
| 1 | 7626.000   | 55.04  | -28.50 | 83.54  | 42.71       | 37.43  | 7.64   | 32.74  | Peak    | ---   |
| 2 | 7626.000   | 40.27  | -23.27 | 63.54  | 27.94       | 37.43  | 7.64   | 32.74  | Average | ---   |
| 3 | 11570.000  | 49.60  | -13.94 | 63.54  | 31.87       | 40.04  | 10.04  | 32.35  | Average | ---   |
| 4 | 11570.000  | 62.87  | -20.67 | 83.54  | 45.14       | 40.04  | 10.04  | 32.35  | Peak    | ---   |
| 5 | @17355.000 | 72.20  |        |        | 46.95       | 44.81  | 11.85  | 31.41  | Peak    | ---   |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)  
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.  
 Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (123.31 dBuV/m).

## Transmitter Radiated Unwanted Emissions (Above 1GHz)

|                 |      |                  |      |
|-----------------|------|------------------|------|
| Modulation Mode | HT20 | Test Freq. (MHz) | 5825 |
| N <sub>TX</sub> | 1    | Polarization     | V    |



|   | Freq      | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp |        | Ant     | Table |
|---|-----------|--------|--------|--------|-------------|--------|--------|--------|---------|-------|
|   | MHz       | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos     | Pos   |
|   | MHz       | dBuV/m | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm      | deg   |
| 1 | 6726.000  | 52.89  |        |        | 42.65       | 35.94  | 6.83   | 32.53  | Peak    | ---   |
| 2 | 11650.000 | 47.47  | -16.07 | 63.54  | 29.81       | 39.99  | 10.03  | 32.36  | Average | ---   |
| 3 | 11650.000 | 61.73  | -21.81 | 83.54  | 44.07       | 39.99  | 10.03  | 32.36  | Peak    | ---   |
| 4 | 17475.000 | 71.55  |        |        | 45.08       | 45.81  | 12.11  | 31.45  | Peak    | ---   |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

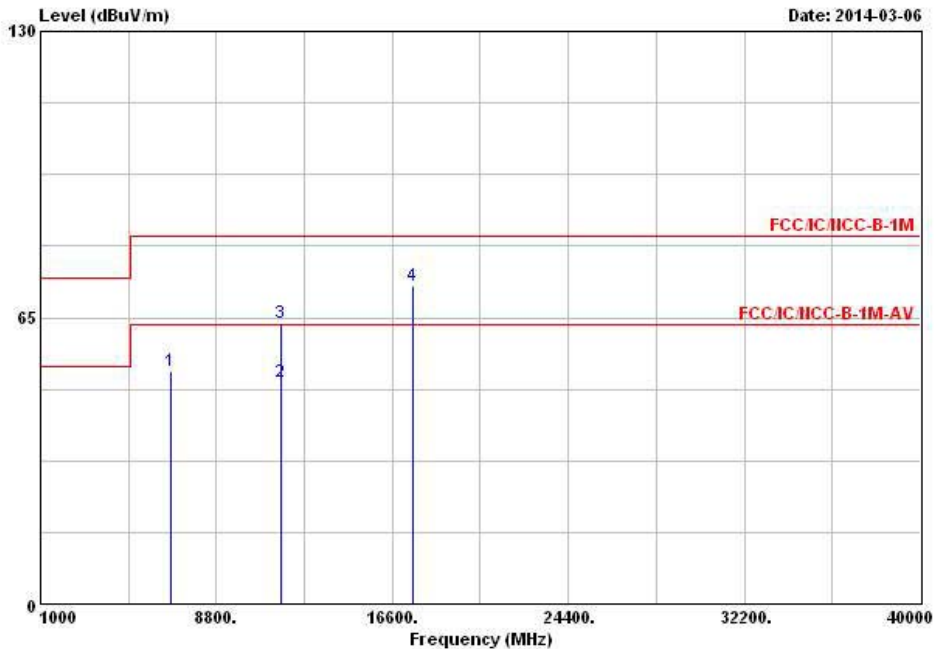
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (123.32 dBuV/m).

## Transmitter Radiated Unwanted Emissions (Above 1GHz)

|                 |      |                  |      |
|-----------------|------|------------------|------|
| Modulation Mode | HT20 | Test Freq. (MHz) | 5825 |
| N <sub>TX</sub> | 1    | Polarization     | H    |



|   | Freq      | Level  | Over Limit | Limit Line | ReadAntenna Level | Cable Factor | Preamp Loss | Remark        | Ant Pos | Table Pos |
|---|-----------|--------|------------|------------|-------------------|--------------|-------------|---------------|---------|-----------|
|   | MHz       | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m         | dB          | dB            | cm      | deg       |
| 1 | 6744.000  | 52.80  |            |            | 42.52             | 35.98        | 6.83        | 32.53 Peak    | ---     | ---       |
| 2 | 11650.000 | 50.49  | -13.05     | 63.54      | 32.83             | 39.99        | 10.03       | 32.36 Average | ---     | ---       |
| 3 | 11650.000 | 63.77  | -19.77     | 83.54      | 46.11             | 39.99        | 10.03       | 32.36 Peak    | ---     | ---       |
| 4 | 17475.000 | 72.36  |            |            | 45.89             | 45.81        | 12.11       | 31.45 Peak    | ---     | ---       |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

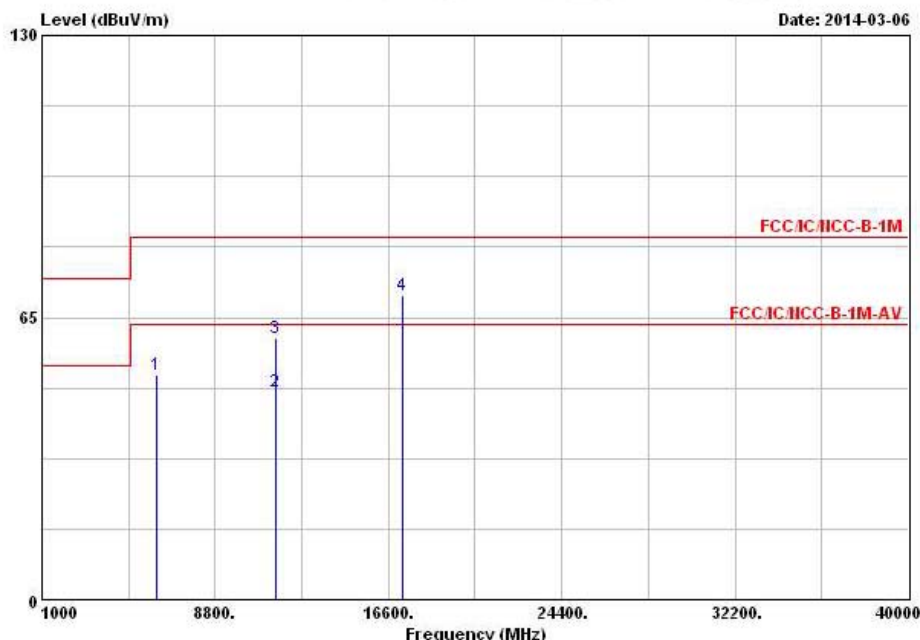
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (123.32 dBuV/m).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |      |                         |      |
|------------------------|------|-------------------------|------|
| <b>Modulation Mode</b> | HT40 | <b>Test Freq. (MHz)</b> | 5755 |
| <b>N<sub>TX</sub></b>  | 1    | <b>Polarization</b>     | V    |



|   | Freq      | Level  | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Remark  | Ant Pos | Table Pos |
|---|-----------|--------|------------|------------|------------|----------------|------------|---------------|---------|---------|-----------|
|   | MHz       | dBuV/m | dB         | dBuV/m     | dBuV       | dB/m           | dB         | dB            |         | cm      | deg       |
| 1 | 6180.000  | 51.89  |            |            | 42.56      | 35.15          | 6.63       | 32.45         | Peak    | ---     | ---       |
| 2 | 11510.000 | 47.77  | -15.77     | 63.54      | 29.97      | 40.10          | 10.04      | 32.34         | Average | ---     | ---       |
| 3 | 11510.000 | 60.29  | -23.25     | 83.54      | 42.49      | 40.10          | 10.04      | 32.34         | Peak    | ---     | ---       |
| 4 | 17265.000 | 70.28  |            |            | 45.90      | 44.09          | 11.68      | 31.39         | Peak    | ---     | ---       |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

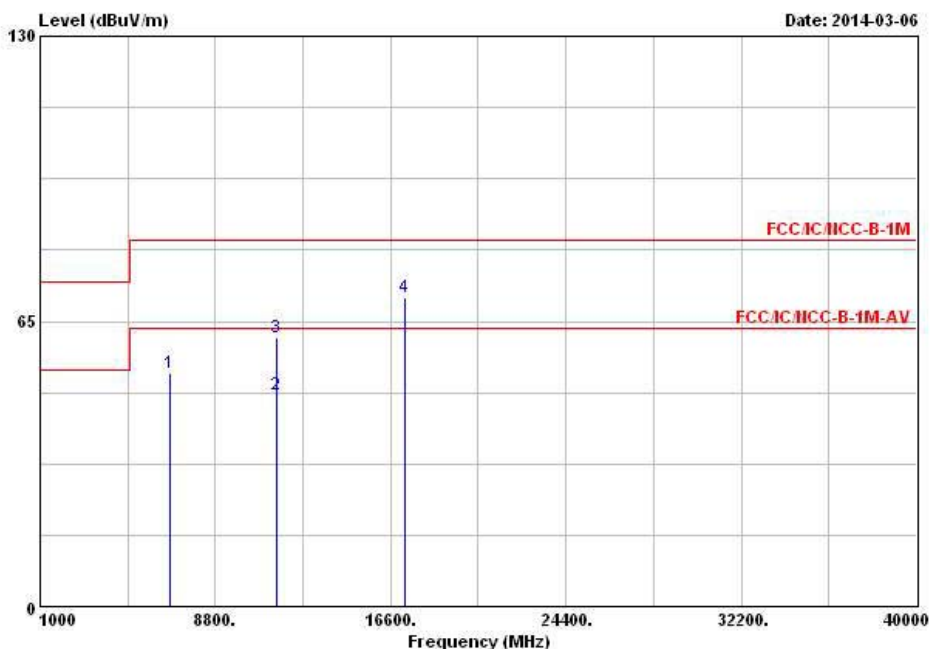
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (121.24 dBuV/m).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |      |                         |      |
|------------------------|------|-------------------------|------|
| <b>Modulation Mode</b> | HT40 | <b>Test Freq. (MHz)</b> | 5755 |
| <b>N<sub>TX</sub></b>  | 1    | <b>Polarization</b>     | H    |



|   | Freq      | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Remark  | Ant Pos | Table Pos |
|---|-----------|--------|------------|------------|-------------------|----------------|------------|---------------|---------|---------|-----------|
|   | MHz       | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB            |         | cm      | deg       |
| 1 | 6744.000  | 53.19  |            |            | 42.91             | 35.98          | 6.83       | 32.53         | Peak    | ---     | ---       |
| 2 | 11510.000 | 48.31  | -15.23     | 63.54      | 30.51             | 40.10          | 10.04      | 32.34         | Average | ---     | ---       |
| 3 | 11510.000 | 61.17  | -22.37     | 83.54      | 43.37             | 40.10          | 10.04      | 32.34         | Peak    | ---     | ---       |
| 4 | 17265.000 | 70.32  |            |            | 45.94             | 44.09          | 11.68      | 31.39         | Peak    | ---     | ---       |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

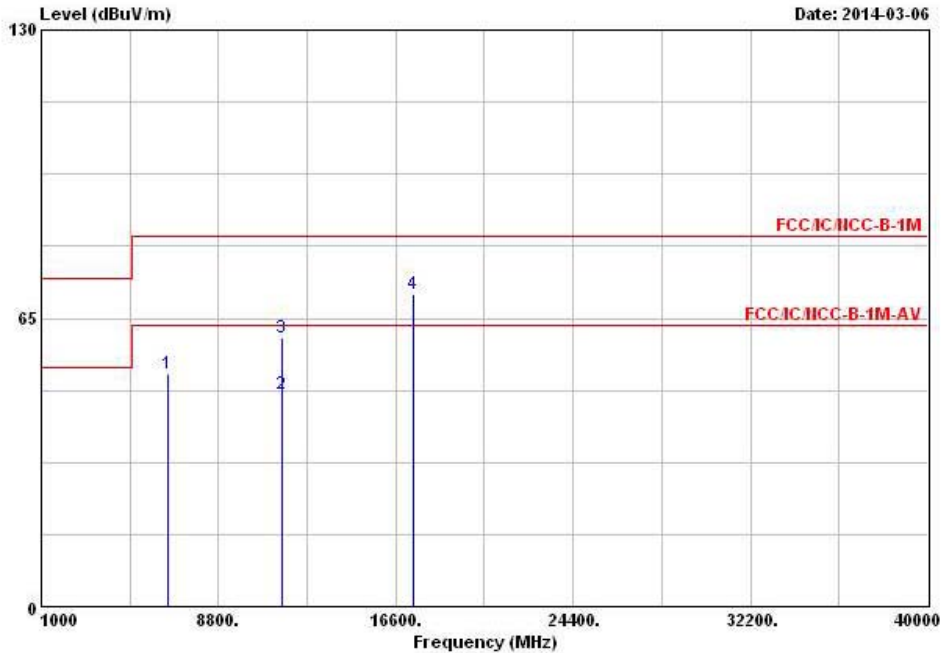
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (121.24 dBuV/m).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |      |                         |      |
|------------------------|------|-------------------------|------|
| <b>Modulation Mode</b> | HT40 | <b>Test Freq. (MHz)</b> | 5795 |
| <b>N<sub>TX</sub></b>  | 1    | <b>Polarization</b>     | V    |



|   | Freq      | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp |        | Ant     | Table |
|---|-----------|--------|--------|--------|-------------|--------|--------|--------|---------|-------|
|   | MHz       | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos     | Pos   |
|   | MHz       | dBuV/m | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm      | deg   |
| 1 | 6570.000  | 52.49  |        |        | 42.71       | 35.57  | 6.70   | 32.49  | Peak    | ---   |
| 2 | 11590.000 | 47.97  | -15.57 | 63.54  | 30.26       | 40.03  | 10.03  | 32.35  | Average | ---   |
| 3 | 11590.000 | 60.63  | -22.91 | 83.54  | 42.92       | 40.03  | 10.03  | 32.35  | Peak    | ---   |
| 4 | 17385.000 | 70.46  |        |        | 44.85       | 45.10  | 11.94  | 31.43  | Peak    | ---   |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

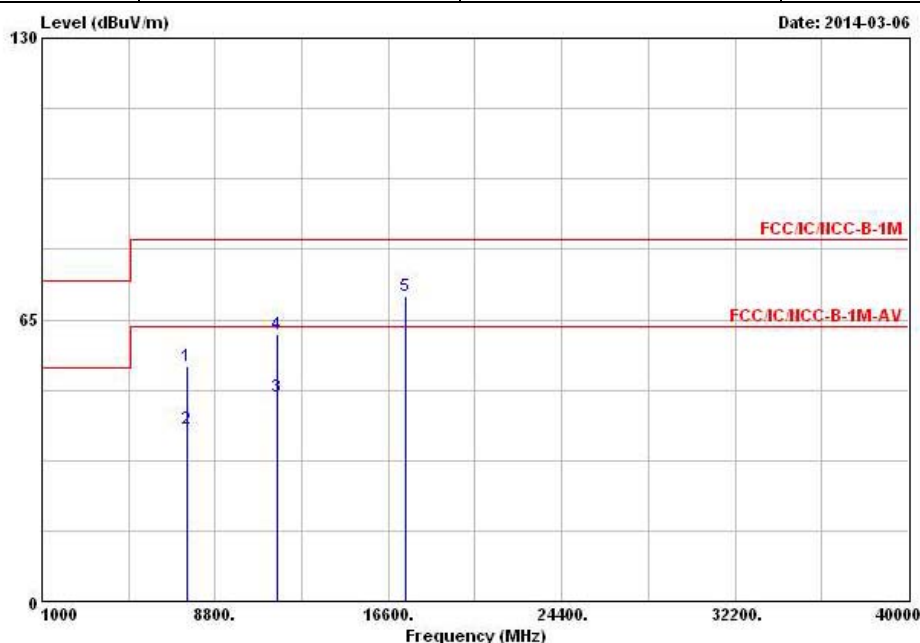
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (121.25 dBuV/m).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |      |                         |      |
|------------------------|------|-------------------------|------|
| <b>Modulation Mode</b> | HT40 | <b>Test Freq. (MHz)</b> | 5795 |
| <b>N<sub>TX</sub></b>  | 1    | <b>Polarization</b>     | H    |



|   | Freq      | Level  | Over   | Limit  | Read  | Antenna | Cable | Preamp |         | Rnt | Table |
|---|-----------|--------|--------|--------|-------|---------|-------|--------|---------|-----|-------|
|   | MHz       | dBuV/m | Limit  | Line   | Level | Factor  | Loss  | Factor | Remark  | Pos | Pos   |
|   | MHz       | dBuV/m | dB     | dBuV/m | dBuV  | dB/m    | dB    | dB     |         | cm  | deg   |
| 1 | 7548.000  | 54.42  | -29.12 | 83.54  | 42.30 | 37.35   | 7.50  | 32.73  | Peak    | --- | ---   |
| 2 | 7548.000  | 39.90  | -23.64 | 63.54  | 27.78 | 37.35   | 7.50  | 32.73  | Average | --- | ---   |
| 3 | 11590.000 | 47.36  | -16.18 | 63.54  | 29.65 | 40.03   | 10.03 | 32.35  | Average | --- | ---   |
| 4 | 11590.000 | 61.52  | -22.02 | 83.54  | 43.81 | 40.03   | 10.03 | 32.35  | Peak    | --- | ---   |
| 5 | 17385.000 | 70.54  |        |        | 44.93 | 45.10   | 11.94 | 31.43  | Peak    | --- | ---   |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

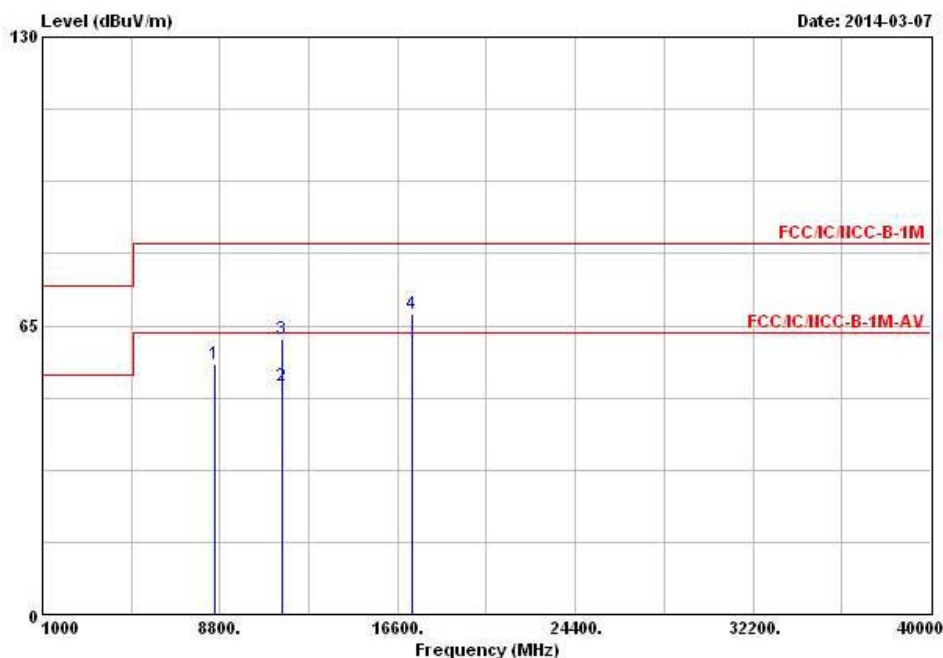
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (121.25 dBuV/m).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |       |                         |      |
|------------------------|-------|-------------------------|------|
| <b>Modulation Mode</b> | VHT20 | <b>Test Freq. (MHz)</b> | 5745 |
| <b>N<sub>TX</sub></b>  | 1     | <b>Polarization</b>     | V    |



|   | Freq      | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Remark  | Ant Pos | Table Pos |
|---|-----------|--------|------------|------------|-------------------|----------------|------------|---------------|---------|---------|-----------|
|   | MHz       | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB            |         | cm      | deg       |
| 1 | 8592.000  | 56.23  |            |            | 42.54             | 38.58          | 7.95       | 32.84         | Peak    | ---     | ---       |
| 2 | 11490.000 | 51.39  | -12.15     | 63.54      | 33.62             | 40.07          | 10.04      | 32.34         | Average | ---     | ---       |
| 3 | 11490.000 | 61.99  | -21.55     | 83.54      | 44.22             | 40.07          | 10.04      | 32.34         | Peak    | ---     | ---       |
| 4 | 17235.000 | 67.48  |            |            | 43.46             | 43.81          | 11.59      | 31.38         | Peak    | ---     | ---       |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

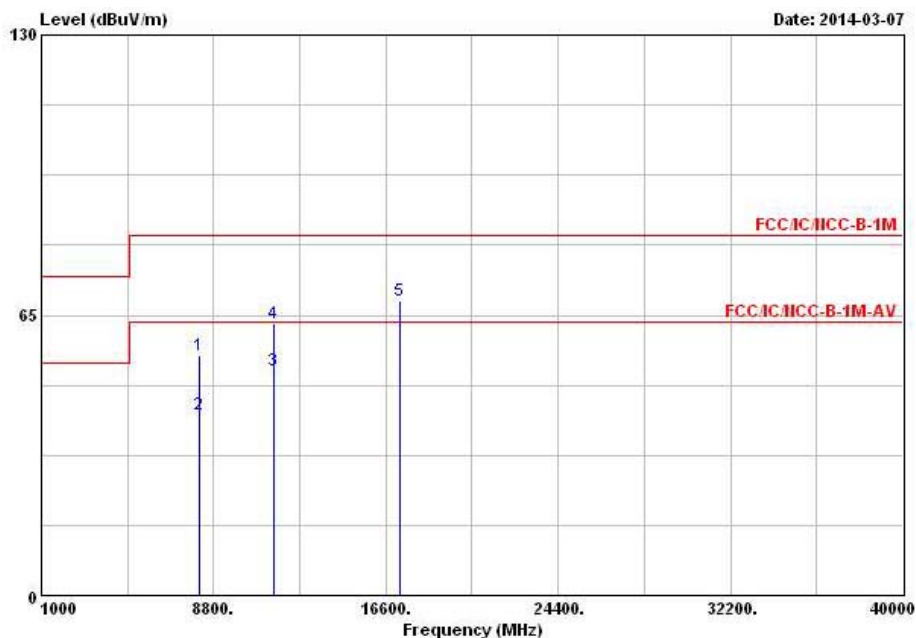
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (123.16 dBuV/m).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |       |                         |      |
|------------------------|-------|-------------------------|------|
| <b>Modulation Mode</b> | VHT20 | <b>Test Freq. (MHz)</b> | 5745 |
| <b>N<sub>TX</sub></b>  | 1     | <b>Polarization</b>     | H    |



|   | Freq      | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Remark  | Ant Pos | Table Pos |
|---|-----------|--------|------------|------------|-------------------|----------------|------------|---------------|---------|---------|-----------|
|   | MHz       | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB            |         | cm      | deg       |
| 1 | 8154.000  | 55.83  | -27.71     | 83.54      | 42.35             | 38.08          | 8.20       | 32.80         | Peak    | ---     | ---       |
| 2 | 8154.000  | 41.77  | -21.77     | 63.54      | 28.29             | 38.08          | 8.20       | 32.80         | Average | ---     | ---       |
| 3 | 11490.000 | 52.19  | -11.35     | 63.54      | 34.42             | 40.07          | 10.04      | 32.34         | Average | ---     | ---       |
| 4 | 11490.000 | 62.89  | -20.65     | 83.54      | 45.12             | 40.07          | 10.04      | 32.34         | Peak    | ---     | ---       |
| 5 | 17235.000 | 68.40  |            |            | 44.38             | 43.81          | 11.59      | 31.38         | Peak    | ---     | ---       |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

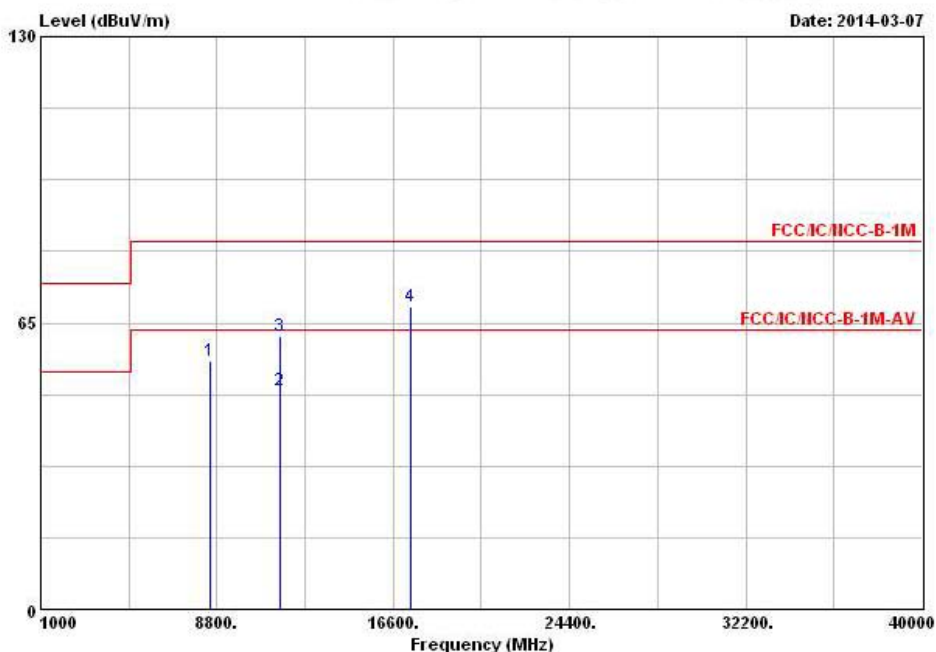
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (123.16 dBuV/m).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |       |                         |      |
|------------------------|-------|-------------------------|------|
| <b>Modulation Mode</b> | VHT20 | <b>Test Freq. (MHz)</b> | 5785 |
| <b>N<sub>TX</sub></b>  | 1     | <b>Polarization</b>     | V    |



|   | Freq      | Level  | Over   | Limit  | ReadAntenna | Cable | Preamp | Remark        | Rnt | Table |
|---|-----------|--------|--------|--------|-------------|-------|--------|---------------|-----|-------|
|   | MHz       | dBuV/m | Limit  | Line   | Level       | Loss  | Factor |               | Pos | Pos   |
|   |           |        | dB     | dBuV/m | dBuV        | dB/m  | dB     | dB            | cm  | deg   |
| 1 | 8526.000  | 56.45  |        |        | 42.62       | 38.66 | 7.99   | 32.82 Peak    | --- | ---   |
| 2 | 11570.100 | 49.54  | -14.00 | 63.54  | 31.81       | 40.04 | 10.04  | 32.35 Average | --- | ---   |
| 3 | 11570.100 | 62.07  | -21.47 | 83.54  | 44.34       | 40.04 | 10.04  | 32.35 Peak    | --- | ---   |
| 4 | 17355.000 | 68.73  |        |        | 43.48       | 44.81 | 11.85  | 31.41 Peak    | --- | ---   |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

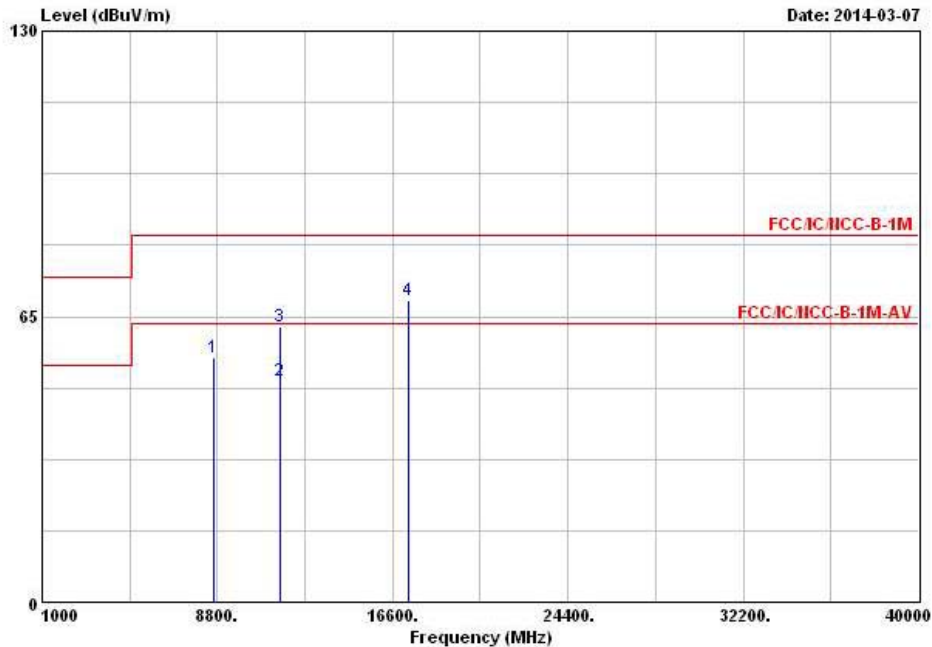
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (122.94 dBuV/m).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |       |                         |      |
|------------------------|-------|-------------------------|------|
| <b>Modulation Mode</b> | VHT20 | <b>Test Freq. (MHz)</b> | 5785 |
| <b>N<sub>TX</sub></b>  | 1     | <b>Polarization</b>     | H    |

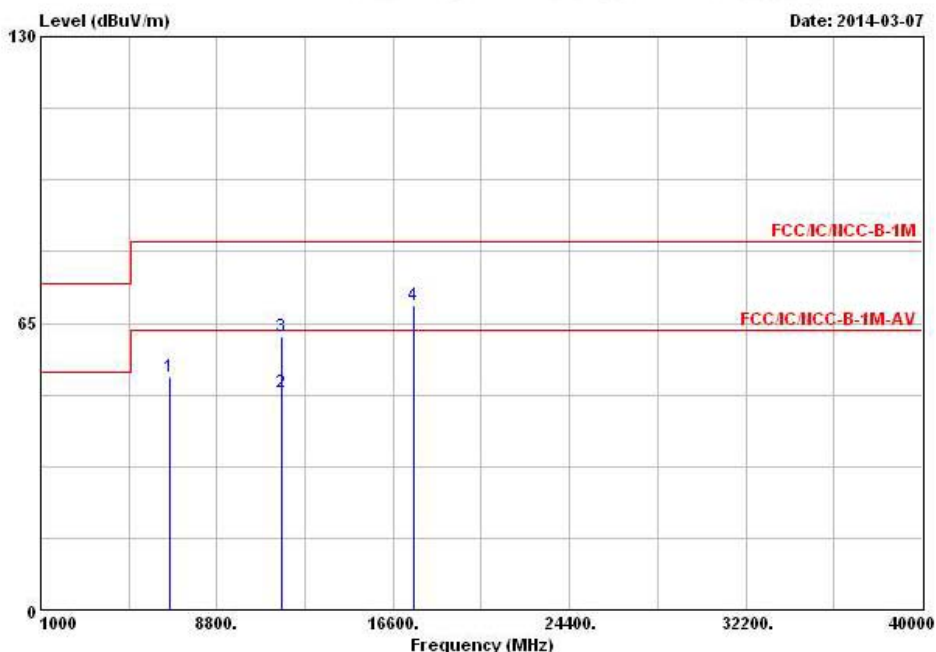


|   | Freq      | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Remark  | Ant Pos | Table Pos |
|---|-----------|--------|------------|------------|-------------------|----------------|------------|---------------|---------|---------|-----------|
|   | MHz       | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB            |         | cm      | deg       |
| 1 | 8610.000  | 55.72  |            |            | 42.05             | 38.56          | 7.95       | 32.84         | Peak    | ---     | ---       |
| 2 | 11570.000 | 50.24  | -13.30     | 63.54      | 32.51             | 40.04          | 10.04      | 32.35         | Average | ---     | ---       |
| 3 | 11570.000 | 62.74  | -20.80     | 83.54      | 45.01             | 40.04          | 10.04      | 32.35         | Peak    | ---     | ---       |
| 4 | 17335.000 | 68.86  |            |            | 43.75             | 44.67          | 11.85      | 31.41         | Peak    | ---     | ---       |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)  
 Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)  
 Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.  
 Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (122.94 dBuV/m).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |       |                         |      |
|------------------------|-------|-------------------------|------|
| <b>Modulation Mode</b> | VHT20 | <b>Test Freq. (MHz)</b> | 5825 |
| <b>N<sub>TX</sub></b>  | 1     | <b>Polarization</b>     | V    |



|   | Freq      | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp |        | Rnt     | Table |
|---|-----------|--------|--------|--------|-------------|--------|--------|--------|---------|-------|
|   | MHz       | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos     | Pos   |
|   | MHz       | dBuV/m | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm      | deg   |
| 1 | 6714.000  | 52.82  |        |        | 42.61       | 35.90  | 6.83   | 32.52  | Peak    | ---   |
| 2 | 11650.000 | 49.41  | -14.13 | 63.54  | 31.75       | 39.99  | 10.03  | 32.36  | Average | ---   |
| 3 | 11650.000 | 61.83  | -21.71 | 83.54  | 44.17       | 39.99  | 10.03  | 32.36  | Peak    | ---   |
| 4 | 17475.000 | 69.06  |        |        | 42.59       | 45.81  | 12.11  | 31.45  | Peak    | ---   |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

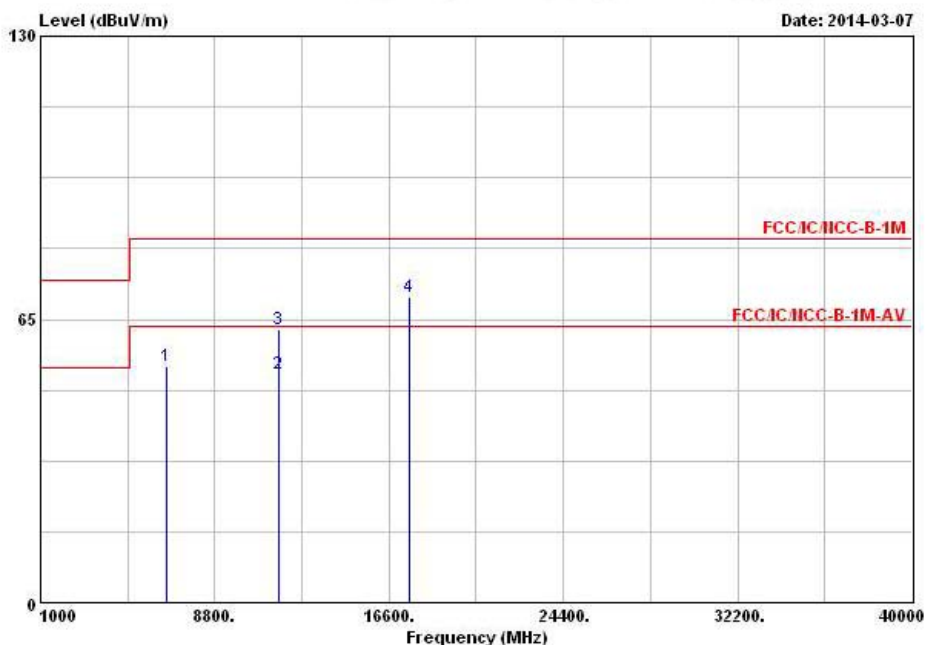
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (123.33 dBuV/m).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |       |                         |      |
|------------------------|-------|-------------------------|------|
| <b>Modulation Mode</b> | VHT20 | <b>Test Freq. (MHz)</b> | 5825 |
| <b>N<sub>TX</sub></b>  | 1     | <b>Polarization</b>     | H    |



|   | Freq      | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Remark  | Ant Pos | Table Pos |
|---|-----------|--------|------------|------------|-------------------|----------------|------------|---------------|---------|---------|-----------|
|   | MHz       | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB            |         | cm      | deg       |
| 1 | 6606.000  | 54.28  |            |            | 44.40             | 35.65          | 6.73       | 32.50         | Peak    | ---     | ---       |
| 2 | 11650.000 | 52.51  | -11.03     | 63.54      | 34.85             | 39.99          | 10.03      | 32.36         | Average | ---     | ---       |
| 3 | 11650.000 | 62.84  | -20.70     | 83.54      | 45.18             | 39.99          | 10.03      | 32.36         | Peak    | ---     | ---       |
| 4 | 17475.000 | 70.12  |            |            | 43.65             | 45.81          | 12.11      | 31.45         | Peak    | ---     | ---       |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

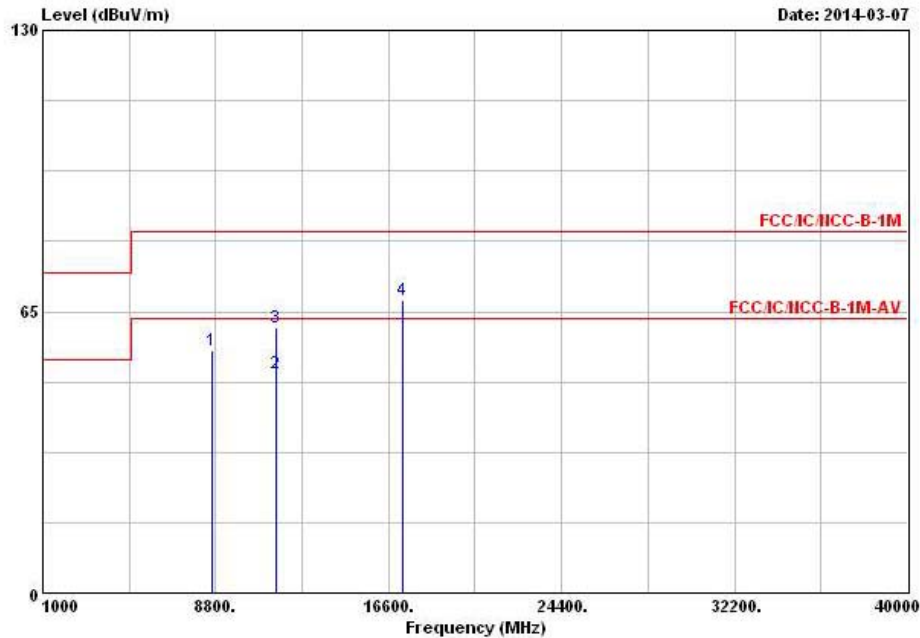
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (123.33 dBuV/m).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |       |                         |      |
|------------------------|-------|-------------------------|------|
| <b>Modulation Mode</b> | VHT40 | <b>Test Freq. (MHz)</b> | 5755 |
| <b>N<sub>TX</sub></b>  | 1     | <b>Polarization</b>     | V    |



|   | Freq      | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp |        | Ant     | Table |
|---|-----------|--------|--------|--------|-------------|--------|--------|--------|---------|-------|
|   | MHz       | dBuV/m | Limit  | Line   | Level       | Factor | Loss   | Factor | Pos     | Pos   |
|   | MHz       | dBuV/m | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB     | cm      | deg   |
| 1 | 8622.000  | 56.08  |        |        | 42.42       | 38.56  | 7.95   | 32.85  | Peak    | ---   |
| 2 | 11510.000 | 50.60  | -12.94 | 63.54  | 32.80       | 40.10  | 10.04  | 32.34  | Average | ---   |
| 3 | 11510.000 | 61.42  | -22.12 | 83.54  | 43.62       | 40.10  | 10.04  | 32.34  | Peak    | ---   |
| 4 | 17265.000 | 67.56  |        |        | 43.18       | 44.09  | 11.68  | 31.39  | Peak    | ---   |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

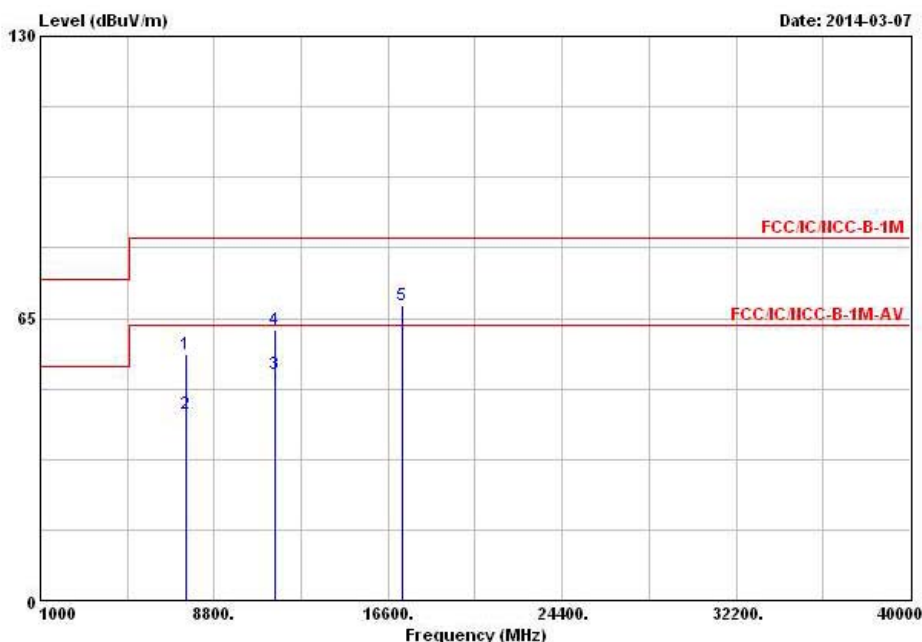
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (121.24 dBuV/m).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |       |                         |      |
|------------------------|-------|-------------------------|------|
| <b>Modulation Mode</b> | VHT40 | <b>Test Freq. (MHz)</b> | 5755 |
| <b>N<sub>TX</sub></b>  | 1     | <b>Polarization</b>     | H    |



|   | Freq       | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Remark  | Ant Pos | Table Pos |
|---|------------|--------|------------|------------|-------------------|----------------|------------|---------------|---------|---------|-----------|
|   | MHz        | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB            |         | cm      | deg       |
| 1 | 7518.000   | 56.79  | -26.75     | 83.54      | 44.76             | 37.32          | 7.43       | 32.72         | Peak    | ---     | ---       |
| 2 | 7518.000   | 43.13  | -20.41     | 63.54      | 31.10             | 37.32          | 7.43       | 32.72         | Average | ---     | ---       |
| 3 | @11510.000 | 52.10  | -11.44     | 63.54      | 34.30             | 40.10          | 10.04      | 32.34         | Average | ---     | ---       |
| 4 | 11510.000  | 62.20  | -21.34     | 83.54      | 44.40             | 40.10          | 10.04      | 32.34         | Peak    | ---     | ---       |
| 5 | 17265.000  | 68.16  |            |            | 43.78             | 44.09          | 11.68      | 31.39         | Peak    | ---     | ---       |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

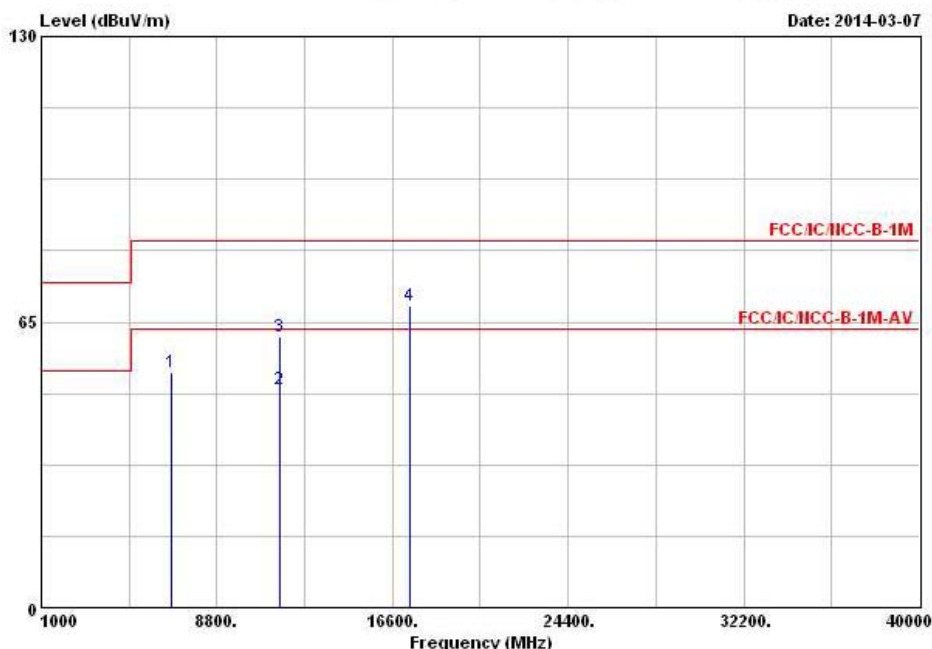
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (121.24 dBuV/m).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |       |                         |      |
|------------------------|-------|-------------------------|------|
| <b>Modulation Mode</b> | VHT40 | <b>Test Freq. (MHz)</b> | 5795 |
| <b>N<sub>TX</sub></b>  | 1     | <b>Polarization</b>     | V    |



|   | Freq      | Level  | Over   | Limit  | ReadAntenna | Cable  | Preamp |               | Ant | Table |
|---|-----------|--------|--------|--------|-------------|--------|--------|---------------|-----|-------|
|   | MHz       | dBuV/m | Limit  | Line   | Level       | Factor | Factor | Remark        | Pos | Pos   |
|   | MHz       | dBuV/m | dB     | dBuV/m | dBuV        | dB/m   | dB     | dB            | cm  | deg   |
| 1 | 6804.000  | 53.63  |        |        | 43.18       | 36.10  | 6.89   | 32.54 Peak    | --- | ---   |
| 2 | 11590.000 | 49.64  | -13.90 | 63.54  | 31.93       | 40.03  | 10.03  | 32.35 Average | --- | ---   |
| 3 | 11590.000 | 61.70  | -21.84 | 83.54  | 43.99       | 40.03  | 10.03  | 32.35 Peak    | --- | ---   |
| 4 | 17385.000 | 68.62  |        |        | 43.01       | 45.10  | 11.94  | 31.43 Peak    | --- | ---   |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

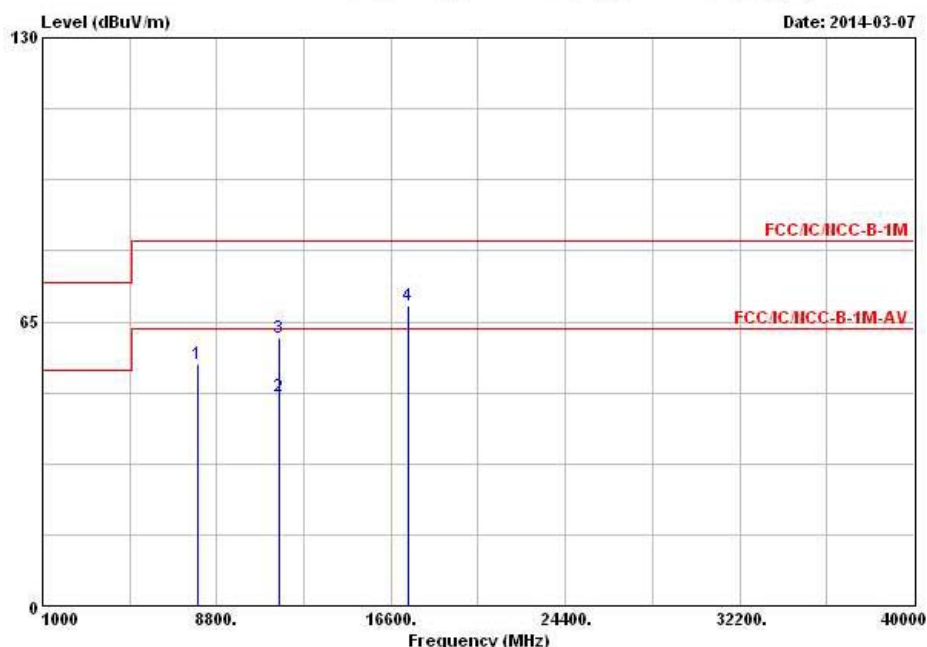
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (120.59 dBuV/m).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |       |                         |      |
|------------------------|-------|-------------------------|------|
| <b>Modulation Mode</b> | VHT40 | <b>Test Freq. (MHz)</b> | 5795 |
| <b>N<sub>TX</sub></b>  | 1     | <b>Polarization</b>     | H    |



|   | Freq      | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Remark  | Ant Pos | Table Pos |
|---|-----------|--------|------------|------------|-------------------|----------------|------------|---------------|---------|---------|-----------|
|   | MHz       | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB            |         | cm      | deg       |
| 1 | 7950.000  | 55.17  |            |            | 42.00             | 37.75          | 8.21       | 32.79         | Peak    | ---     | ---       |
| 2 | 11590.000 | 47.77  | -15.77     | 63.54      | 30.06             | 40.03          | 10.03      | 32.35         | Average | ---     | ---       |
| 3 | 11590.000 | 61.31  | -22.23     | 83.54      | 43.60             | 40.03          | 10.03      | 32.35         | Peak    | ---     | ---       |
| 4 | 17385.000 | 68.61  |            |            | 43.00             | 45.10          | 11.94      | 31.43         | Peak    | ---     | ---       |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

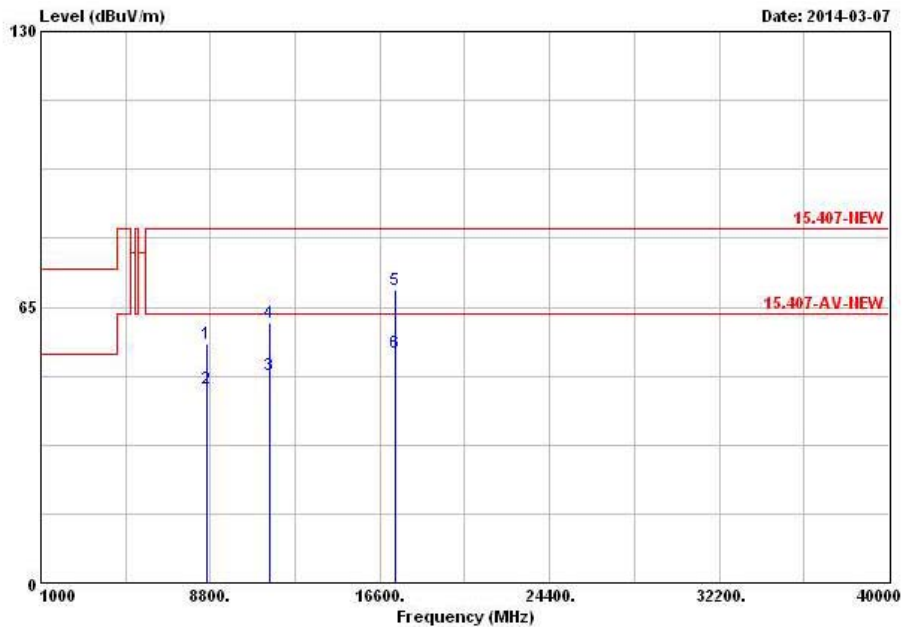
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (120.59 dBuV/m).

## Transmitter Radiated Unwanted Emissions (Above 1GHz)

|                 |       |                  |      |
|-----------------|-------|------------------|------|
| Modulation Mode | VHT80 | Test Freq. (MHz) | 5775 |
| N <sub>TX</sub> | 1     | Polarization     | V    |



|   | Freq       | Level  | Over Limit | Limit Line | ReadAntenna Level | Cable Factor | Preamp Loss | Preamp Factor | Remark  | Ant Pos | Table Pos |
|---|------------|--------|------------|------------|-------------------|--------------|-------------|---------------|---------|---------|-----------|
|   | MHz        | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m         | dB          | dB            |         | cm      | deg       |
| 1 | 8628.000   | 56.44  | -27.10     | 83.54      | 42.82             | 38.54        | 7.93        | 32.85         | Peak    | ---     | ---       |
| 2 | 8628.000   | 45.89  | -17.65     | 63.54      | 32.27             | 38.54        | 7.93        | 32.85         | Average | ---     | ---       |
| 3 | 11550.000  | 49.05  | -14.49     | 63.54      | 31.30             | 40.06        | 10.04       | 32.35         | Average | ---     | ---       |
| 4 | 11550.000  | 61.22  | -22.32     | 83.54      | 43.47             | 40.06        | 10.04       | 32.35         | Peak    | ---     | ---       |
| 5 | 17325.000  | 68.95  | -14.59     | 83.54      | 43.99             | 44.52        | 11.85       | 31.41         | Peak    | ---     | ---       |
| 6 | @17325.000 | 54.36  | -9.18      | 63.54      | 29.40             | 44.52        | 11.85       | 31.41         | Average | ---     | ---       |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

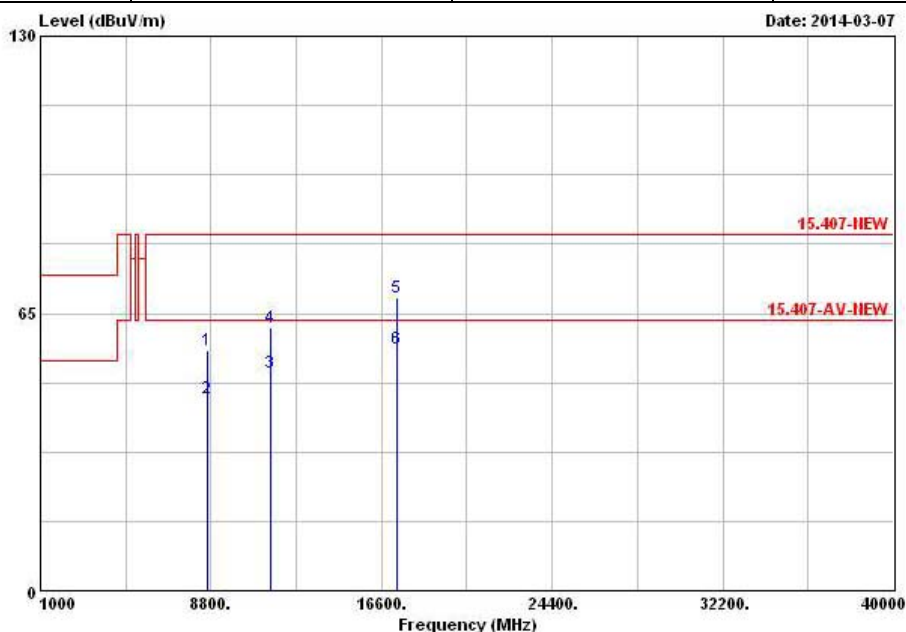
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (118.18 dBuV/m).

**Transmitter Radiated Unwanted Emissions (Above 1GHz)**

|                        |       |                         |      |
|------------------------|-------|-------------------------|------|
| <b>Modulation Mode</b> | VHT80 | <b>Test Freq. (MHz)</b> | 5775 |
| <b>N<sub>TX</sub></b>  | 1     | <b>Polarization</b>     | H    |



|   | Freq      | Level  | Over Limit | Limit Line | ReadAntenna Level | Cable Factor | Preamp Loss | Table Pos | Remark  | Ant Pos | Table Pos |
|---|-----------|--------|------------|------------|-------------------|--------------|-------------|-----------|---------|---------|-----------|
|   | MHz       | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m         | dB          | dB        |         | cm      | deg       |
| 1 | 8622.000  | 56.47  | -27.07     | 83.54      | 42.81             | 38.56        | 7.95        | 32.85     | Peak    | ---     | ---       |
| 2 | 8622.000  | 44.93  | -18.61     | 63.54      | 31.27             | 38.56        | 7.95        | 32.85     | Average | ---     | ---       |
| 3 | 11550.000 | 51.13  | -12.41     | 63.54      | 33.38             | 40.06        | 10.04       | 32.35     | Average | ---     | ---       |
| 4 | 11550.000 | 61.61  | -21.93     | 83.54      | 43.86             | 40.06        | 10.04       | 32.35     | Peak    | ---     | ---       |
| 5 | 17325.000 | 68.73  | -14.81     | 83.54      | 43.77             | 44.52        | 11.85       | 31.41     | Peak    | ---     | ---       |
| 6 | 17325.000 | 56.70  | -6.84      | 63.54      | 31.74             | 44.52        | 11.85       | 31.41     | Average | ---     | ---       |

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (118.18 dBuV/m).

## 4 Test Equipment and Calibration Data

| Instrument   | Manufacturer                   | Model No. | Serial No.     | Characteristics | Calibration Date | Remark     |
|--------------|--------------------------------|-----------|----------------|-----------------|------------------|------------|
| EMC Receiver | R&S                            | ESCS 30   | 100174         | 9kHz ~ 2.75GHz  | Mar. 25, 2013    | Conduction |
| LISN         | SCHWARZBECK<br>MESS-ELEKTRONIK | NSLK 8127 | 8127-477       | 9kHz ~ 30MHz    | Jan. 21, 2014    | Conduction |
| RF Cable-CON | HUBER+SUHNER                   | RG213/U   | 07611832020001 | 9kHz ~ 30MHz    | Oct. 30, 2013    | Conduction |
| EMI Filter   | LINDGREN                       | LRE-2030  | 2651           | < 450 Hz        | N/A              | Conduction |

Note: Calibration Interval of instruments listed above is one year.

| Instrument                 | Manufacturer | Model No.    | Serial No.  | Characteristics | Calibration Date | Remark       |
|----------------------------|--------------|--------------|-------------|-----------------|------------------|--------------|
| Spectrum Analyzer          | R&S          | FSV 40       | 101013      | 9KHz~40GHz      | Jan. 25, 2014    | RF Conducted |
| DC Power Source            | G.W.         | GPS-3030DD   | GEN865896   | DC 0V ~ 30V     | Nov. 21, 2013    | RF Conducted |
| Temp. and Humidity Chamber | Giant Force  | GTH-225-20-S | MAB0103-001 | -20 ~ 100℃      | Nov. 21, 2013    | RF Conducted |
| Signal Generator           | R&S          | SMR40        | 100116      | 10MHz ~ 40GHz   | Jun. 27, 2013    | RF Conducted |
| RF Cable-2m                | HUBER+SUHNER | SUCOFLEX_104 | SN 345673/4 | 30MHz ~ 26.5GHz | Dec. 02, 2013    | RF Conducted |

Note: Calibration Interval of instruments listed above is one year.

| Instrument               | Manufacturer   | Model No.      | Serial No.  | Characteristics    | Calibration Date | Remark            |
|--------------------------|----------------|----------------|-------------|--------------------|------------------|-------------------|
| 3m Semi Anechoic Chamber | SIDT FRANKONIA | SAC-3M         | 03CH03-HY   | 30MHz ~ 1GHz<br>3m | Nov. 30, 2013    | Radiated Emission |
| Amplifier                | HP             | 8447D          | 2944A08033  | 10kHz ~ 1.3GHz     | May. 03, 2013    | Radiated Emission |
| Amplifier                | Agilent        | 8449B          | 3008A02120  | 1GHz ~ 26.5GHz     | Aug. 20, 2013    | Radiated Emission |
| Spectrum                 | R&S            | FSP40          | 100004      | 9kHz ~ 40GHz       | Mar. 10, 2014    | Radiated Emission |
| Spectrum                 | R&S            | FSP40          | 100004      | 9kHz ~ 40GHz       | Mar. 11, 2013    | Radiated Emission |
| Bilog Antenna            | SCHAFFNER      | CBL 6112D      | 22237       | 30MHz ~ 1GHz       | Sep. 21, 2013    | Radiated Emission |
| Horn Antenna             | EMCO           | 3115           | 6741        | 1GHz ~ 18GHz       | May 31, 2013     | Radiated Emission |
| Horn Antenna             | SCHWARZBECK    | BBHA9170       | BBHA9170154 | 15GHz ~ 40GHz      | Jan. 10, 2014    | Radiated Emission |
| RF Cable-R03m            | Jye Bao        | RG142          | CB021       | 9kHz ~ 1GHz        | Nov. 16, 2013    | Radiated Emission |
| RF Cable-high            | SUHNER         | SUCOFLEX 106   | 03CH03-HY   | 1GHz ~ 40GHz       | Dec. 11, 2013    | Radiated Emission |
| Turn Table               | EM Electronics | EM Electronics | 060615      | 0 ~ 360 degree     | N/A              | Radiated Emission |
| Antenna Mast             | MF             | MF-7802        | MF780208179 | 1 ~ 4 m            | N/A              | Radiated Emission |

Note: Calibration Interval of instruments listed above is one year.

| Instrument   | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Remark            |
|--------------|--------------|-----------|------------|-----------------|------------------|-------------------|
| Amplifier    | EM           | EM18G40G  | 060604     | 18GHz ~ 40GHz   | Oct. 17.2013     | Radiated Emission |
| Loop Antenna | TESEQ        | HLA 6120  | 31244      | 9kHz ~ 30MHz    | Dec. 02, 2012    | Radiated Emission |

Note: Calibration Interval of instruments listed above is two year.