

## FCC Test Report

**Report No.:** RF170918E11-1

**FCC ID:** BKMFBJ26H005

**Test Model:** J26H005

**Received Date:** Sep. 18, 2017

**Test Date:** Sep. 27 to Oct. 06, 2017

**Issued Date:** Nov. 23, 2017

**Applicant:** Seiko Epson Corporation

**Address:** 3-3-5 Owa Suwa-shi Nagano-Ken 392-8502, Japan

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Hsin Chu Laboratory

**Lab Address:** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,  
Taiwan R.O.C.

**Test Location :** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,  
Taiwan R.O.C.

**FCC Registration /  
Designation Number:** 723255 / TW2022



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### Release Control Record

| Issue No.     | Description       | Date Issued   |
|---------------|-------------------|---------------|
| RF170918E11-1 | Original release. | Nov. 23, 2017 |

## 1 Certificate of Conformity

**Product:** 11ac+BT Combo Module

**Brand:** Epson

**Test Model:** J26H005

**Sample Status:** ENGINEERING SAMPLE

**Applicant:** Seiko Epson Corporation

**Test Date:** Sep. 27 to Oct. 06, 2017

**Standard:** 47 CFR FCC Part 15, Subpart E (Section 15.407)  
ANSI C63.10: 2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared by :** Wendy Wu , **Date:** Nov. 23, 2017  
Wendy Wu / Specialist

**Approved by :** May Chen , **Date:** Nov. 23, 2017  
May Chen / Manager

## 2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart E (Section 15.407) |                                             |        |                                                                                                                       |
|------------------------------------------------|---------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------|
| FCC Clause                                     | Test Item                                   | Result | Remarks                                                                                                               |
| 15.407(b)(6)                                   | AC Power Conducted Emissions                | Pass   | Meet the requirement of limit.<br>Minimum passing margin is -8.95dB at 16.46484MHz.                                   |
| 15.407(b)<br>(1/2/3/4(i/ii)/6)                 | Radiated Emissions & Band Edge Measurement* | Pass   | Meet the requirement of limit.<br>Minimum passing margin is -0.1dB at 5150.00MHz, 5350.00MHz, 5470.00MHz, 5725.00MHz. |
| 15.407(a)(1/2/3)                               | Max Average Transmit Power                  | Pass   | Meet the requirement of limit.                                                                                        |
| ---                                            | Occupied Bandwidth Measurement              | -      | Reference only.                                                                                                       |
| 15.407(a)(1/2/3)                               | Peak Power Spectral Density                 | Pass   | Meet the requirement of limit.                                                                                        |
| 15.407(e)                                      | 6dB bandwidth                               | Pass   | Meet the requirement of limit.<br>(U-NII-3 Band only)                                                                 |
| 15.407(g)                                      | Frequency Stability                         | Pass   | Meet the requirement of limit.                                                                                        |
| 15.203                                         | Antenna Requirement                         | Pass   | No antenna connector is used.                                                                                         |

\*For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOBE test plots were recorded in Annex A.

### 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement                        | Frequency      | Expanded Uncertainty (k=2) ( $\pm$ ) |
|------------------------------------|----------------|--------------------------------------|
| Conducted Emissions at mains ports | 150kHz ~ 30MHz | 1.84 dB                              |
| Radiated Emissions up to 1 GHz     | 30MHz ~ 1GHz   | 5.32 dB                              |
| Radiated Emissions above 1 GHz     | 1GHz ~ 6GHz    | 5.14 dB                              |
|                                    | 6GHz ~ 18GHz   | 5.04 dB                              |
|                                    | 18GHz ~ 40GHz  | 5.25 dB                              |

### 2.2 Modification Record

There were no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

|                       |                                                                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product               | 11ac+BT Combo Module                                                                                                                                                                     |
| Brand                 | Epson                                                                                                                                                                                    |
| Test Model            | J26H005                                                                                                                                                                                  |
| Status of EUT         | ENGINEERING SAMPLE                                                                                                                                                                       |
| Power Supply Rating   | 3.3Vdc from host equipment                                                                                                                                                               |
| Modulation Type       | CCK, DQPSK, DBPSK for DSSS<br>64QAM, 16QAM, QPSK, BPSK for OFDM<br>256QAM for OFDM in 11ac mode only                                                                                     |
| Modulation Technology | DSSS, OFDM                                                                                                                                                                               |
| Transfer Rate         | 802.11b: up to 11Mbps<br>802.11a/g: up to 54Mbps<br>802.11n: up to 150Mbps<br>802.11ac: up to 433.3Mbps                                                                                  |
| Operating Frequency   | <b>2.4GHz:</b> 2.412 ~ 2.462GHz<br><b>5GHz:</b> 5.18 ~ 5.24GHz, 5.26 ~ 5.32GHz, 5.50 ~ 5.70GHz, 5.745 ~ 5.825GHz                                                                         |
| Number of Channel     | <b>2.4GHz:</b><br>802.11b, 802.11g, 802.11n (HT20): 11<br><b>5GHz:</b><br>802.11a, 802.11n (HT20), 802.11ac (VHT20): 24<br>802.11n (HT40), 802.11ac (VHT40): 11<br>802.11ac (VHT80): 5   |
| Output Power          | <b>2.4GHz:</b> 316.957mW<br><b>5GHz:</b><br><b>5.18 ~ 5.24GHz:</b> 102.802mW<br><b>5.26 ~ 5.32GHz:</b> 97.949mW<br><b>5.50 ~ 5.70GHz:</b> 92.683mW<br><b>5.745 ~ 5.825GHz:</b> 120.504mW |
| Antenna Type          | Refer to Note                                                                                                                                                                            |
| Antenna Connector     | Refer to Note                                                                                                                                                                            |
| Accessory Device      | NA                                                                                                                                                                                       |
| Data Cable Supplied   | NA                                                                                                                                                                                       |

Note:

1. There are WLAN, BT technology used for the EUT.
2. Simultaneously transmission condition.

| Condition | Technology  |           |           |
|-----------|-------------|-----------|-----------|
| 1         | WLAN 2.4GHz | WLAN 5GHz | Bluetooth |

**Note:** The emission of the simultaneous operation has been evaluated and no non-compliance was found.

3. The antennas provided to the EUT, please refer to the following table:

| Ant No. | Antenna Gain (dBi) | Frequency rang (GHz) | Antenna type | Connector type |
|---------|--------------------|----------------------|--------------|----------------|
| 1       | 3.09               | 2.4~2.4835           | PCB Printed  | none           |
|         | 5.94               | 5.15~5.25            |              |                |
|         | 5.94               | 5.25~5.35            |              |                |
|         | 6.29               | 5.47~5.725           |              |                |
|         | 7.12               | 5.725~5.85           |              |                |
| 2       | 2.53               | 2.4~2.4835           | PCB Printed  | none           |
|         | 3.94               | 5.15~5.25            |              |                |
|         | 3.94               | 5.25~5.35            |              |                |
|         | 5.10               | 5.47~5.725           |              |                |
|         | 5.23               | 5.725~5.85           |              |                |

Note: This report chose the max. Antenna gain to do final test.

4. The EUT incorporates a SISO function.

| 2.4GHz Band      |                 |                       |               |
|------------------|-----------------|-----------------------|---------------|
| MODULATION MODE  | DATA RATE (MCS) | TX & RX CONFIGURATION |               |
| 802.11b          | 1 ~ 11Mbps      | 1TX diversity         | 1RX diversity |
| 802.11g          | 6 ~ 54Mbps      | 1TX diversity         | 1RX diversity |
| 802.11n (HT20)   | MCS 0~7         | 1TX diversity         | 1RX diversity |
| 5GHz Band        |                 |                       |               |
| MODULATION MODE  | DATA RATE (MCS) | TX & RX CONFIGURATION |               |
| 802.11a          | 6 ~ 54Mbps      | 1TX diversity         | 1RX diversity |
| 802.11n (HT20)   | MCS 0~7         | 1TX diversity         | 1RX diversity |
| 802.11n (HT40)   | MCS 0~7         | 1TX diversity         | 1RX diversity |
| 802.11ac (VHT20) | MCS0~8 Nss=1    | 1TX diversity         | 1RX diversity |
| 802.11ac (VHT40) | MCS0~9 Nss=1    | 1TX diversity         | 1RX diversity |
| 802.11ac (VHT80) | MCS0~9 Nss=1    | 1TX diversity         | 1RX diversity |

5. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

### 3.2 Description of Test Modes

#### FOR 5180 ~ 5240MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 36      | 5180 MHz  | 44      | 5220 MHz  |
| 40      | 5200 MHz  | 48      | 5240 MHz  |

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 38      | 5190 MHz  | 46      | 5230 MHz  |

1 channel is provided for 802.11ac (VHT80):

| Channel | Frequency |
|---------|-----------|
| 42      | 5210MHz   |

#### FOR 5260 ~ 5320MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 52      | 5260 MHz  | 60      | 5300 MHz  |
| 56      | 5280 MHz  | 64      | 5320 MHz  |

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 54      | 5270 MHz  | 62      | 5310 MHz  |

1 channel is provided for 802.11ac (VHT80):

| Channel | Frequency |
|---------|-----------|
| 58      | 5290MHz   |

#### FOR 5500 ~ 5700MHz

11 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 100     | 5500 MHz  | 124     | 5620 MHz  |
| 104     | 5520 MHz  | 128     | 5640 MHz  |
| 108     | 5540 MHz  | 132     | 5660 MHz  |
| 112     | 5560 MHz  | 136     | 5680 MHz  |
| 116     | 5580 MHz  | 140     | 5700 MHz  |
| 120     | 5600 MHz  |         |           |

5 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 102     | 5510 MHz  | 126     | 5630 MHz  |
| 110     | 5550 MHz  | 134     | 5670 MHz  |
| 118     | 5590 MHz  |         |           |

2 channels are provided for 802.11ac (VHT80):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 106     | 5530 MHz  | 122     | 5610 MHz  |

#### FOR 5745 ~ 5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 149     | 5745 MHz  | 161     | 5805 MHz  |
| 153     | 5765 MHz  | 165     | 5825 MHz  |
| 157     | 5785 MHz  |         |           |

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 151     | 5755 MHz  | 159     | 5795 MHz  |

1 channel is provided for 802.11ac (VHT80):

| Channel | Frequency |
|---------|-----------|
| 155     | 5775 MHz  |

### 3.2.1 Test Mode Applicability and Tested Channel Detail

| EUT Configure Mode | Applicable To |       |     |      | Description |
|--------------------|---------------|-------|-----|------|-------------|
|                    | RE≥1G         | RE<1G | PLC | APCM |             |
| -                  | √             | √     | √   | √    | -           |

Where **RE≥1G**: Radiated Emission above 1GHz

**RE<1G**: Radiated Emission below 1GHz

**PLC**: Power Line Conducted Emission

**APCM**: Antenna Port Conducted Measurement

**NOTE**: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.

#### Radiated Emission Test (Above 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| Mode             | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate (Mbps) |
|------------------|------------------|-------------------|----------------|-----------------------|-----------------|------------------|
| 802.11a          | 5180-5240        | 36 to 48          | 36, 40, 48     | OFDM                  | BPSK            | 6                |
| 802.11n (HT20)   |                  | 36 to 48          | 36, 40, 48     | OFDM                  | BPSK            | 6.5              |
| 802.11n (HT40)   |                  | 38 to 46          | 38, 46         | OFDM                  | BPSK            | 13.5             |
| 802.11ac (VHT80) |                  | 42                | 42             | OFDM                  | BPSK            | 29.3             |
| 802.11a          | 5260-5320        | 52 to 64          | 52, 60, 64     | OFDM                  | BPSK            | 6                |
| 802.11n (HT20)   |                  | 52 to 64          | 52, 60, 64     | OFDM                  | BPSK            | 6.5              |
| 802.11n (HT40)   |                  | 54 to 62          | 54, 62         | OFDM                  | BPSK            | 13.5             |
| 802.11ac (VHT80) |                  | 58                | 58             | OFDM                  | BPSK            | 29.3             |
| 802.11a          | 5500-5700        | 100 to 140        | 100, 116, 140  | OFDM                  | BPSK            | 6                |
| 802.11n (HT20)   |                  | 100 to 140        | 100, 116, 140  | OFDM                  | BPSK            | 6.5              |
| 802.11n (HT40)   |                  | 102 to 134        | 102, 110, 134  | OFDM                  | BPSK            | 13.5             |
| 802.11ac (VHT80) |                  | 106 to 122        | 106, 122       | OFDM                  | BPSK            | 29.3             |
| 802.11a          | 5745-5825        | 149 to 165        | 149, 157, 165  | OFDM                  | BPSK            | 6                |
| 802.11n (HT20)   |                  | 149 to 165        | 149, 157, 165  | OFDM                  | BPSK            | 6.5              |
| 802.11n (HT40)   |                  | 151 to 159        | 151, 159       | OFDM                  | BPSK            | 13.5             |
| 802.11ac (VHT80) |                  | 155               | 155            | OFDM                  | BPSK            | 29.3             |

#### Radiated Emission Test (Below 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| Mode    | FREQ. Band (MHz)                                 | Available Channel                                | Tested Channel | Modulation Technology | Modulation Type | Data Rate (Mbps) |
|---------|--------------------------------------------------|--------------------------------------------------|----------------|-----------------------|-----------------|------------------|
| 802.11a | 5180-5240<br>5745-5825<br>5500-5700<br>5745-5825 | 36 to 48<br>52 to 64<br>100 to 140<br>149 to 165 | 149            | OFDM                  | BPSK            | 6                |

### **Power Line Conducted Emission Test:**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| Mode    | FREQ. Band (MHz)                                 | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate (Mbps) |
|---------|--------------------------------------------------|-------------------|----------------|-----------------------|-----------------|------------------|
| 802.11a | 5180-5240<br>5745-5825<br>5500-5700<br>5745-5825 | 149 to 165        | 149            | OFDM                  | BPSK            | 6                |

### **Antenna Port Conducted Measurement:**

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| Mode             | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate (Mbps) |
|------------------|------------------|-------------------|----------------|-----------------------|-----------------|------------------|
| 802.11a          | 5180-5240        | 36 to 48          | 36, 40, 48     | OFDM                  | BPSK            | 6                |
| 802.11n (HT20)   |                  | 36 to 48          | 36, 40, 48     | OFDM                  | BPSK            | 6.5              |
| 802.11n (HT40)   |                  | 38 to 46          | 38, 46         | OFDM                  | BPSK            | 13.5             |
| 802.11ac (VHT80) |                  | 42                | 42             | OFDM                  | BPSK            | 29.3             |
| 802.11a          | 5260-5320        | 52 to 64          | 52, 60, 64     | OFDM                  | BPSK            | 6                |
| 802.11n (HT20)   |                  | 52 to 64          | 52, 60, 64     | OFDM                  | BPSK            | 6.5              |
| 802.11n (HT40)   |                  | 54 to 62          | 54, 62         | OFDM                  | BPSK            | 13.5             |
| 802.11ac (VHT80) |                  | 58                | 58             | OFDM                  | BPSK            | 29.3             |
| 802.11a          | 5500-5700        | 100 to 140        | 100, 116, 140  | OFDM                  | BPSK            | 6                |
| 802.11n (HT20)   |                  | 100 to 140        | 100, 116, 140  | OFDM                  | BPSK            | 6.5              |
| 802.11n (HT40)   |                  | 102 to 134        | 102, 110, 134  | OFDM                  | BPSK            | 13.5             |
| 802.11ac (VHT80) |                  | 106 to 122        | 106, 122       | OFDM                  | BPSK            | 29.3             |
| 802.11a          | 5745-5825        | 149 to 165        | 149, 157, 165  | OFDM                  | BPSK            | 6                |
| 802.11n (HT20)   |                  | 149 to 165        | 149, 157, 165  | OFDM                  | BPSK            | 6.5              |
| 802.11n (HT40)   |                  | 151 to 159        | 151, 159       | OFDM                  | BPSK            | 13.5             |
| 802.11ac (VHT80) |                  | 155               | 155            | OFDM                  | BPSK            | 29.3             |

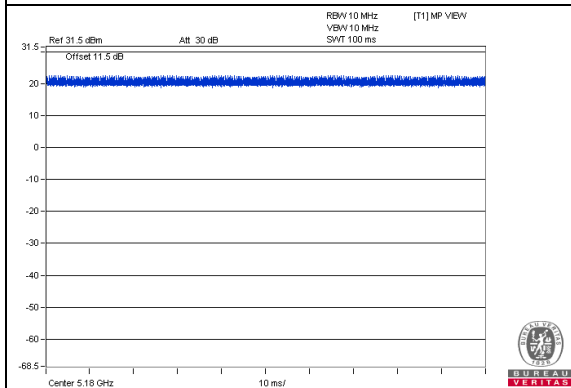
### **Test Condition:**

| Applicable To | ENVIRONMENTAL CONDITIONS | INPUT POWER (System) | TESTED BY     |
|---------------|--------------------------|----------------------|---------------|
| RE $\geq$ 1G  | 23deg. C, 68%RH          | 120Vac, 60Hz         | Weiwei Lo     |
| RE<1G         | 23deg. C, 68%RH          | 120Vac, 60Hz         | Weiwei Lo     |
| PLC           | 26deg. C, 74%RH          | 120Vac, 60Hz         | Andy Ho       |
| APCM          | 25deg. C, 60%RH          | 120Vac, 60Hz         | Anderson Chen |

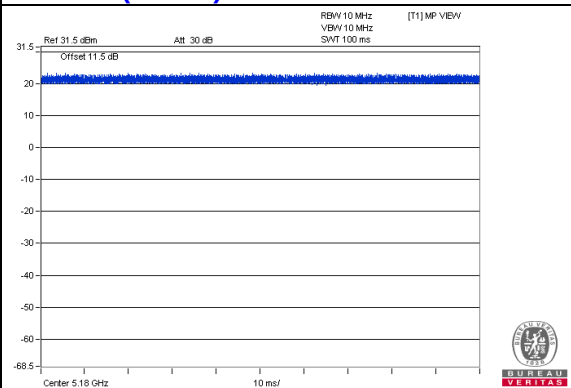
### 3.3 Duty Cycle of Test Signal

Duty cycle of test signal is 100 %, duty factor is not required.

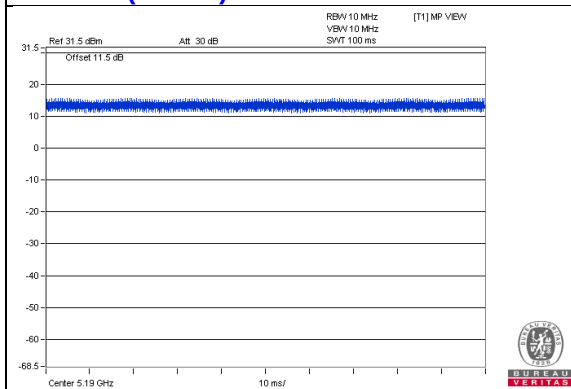
**802.11a**



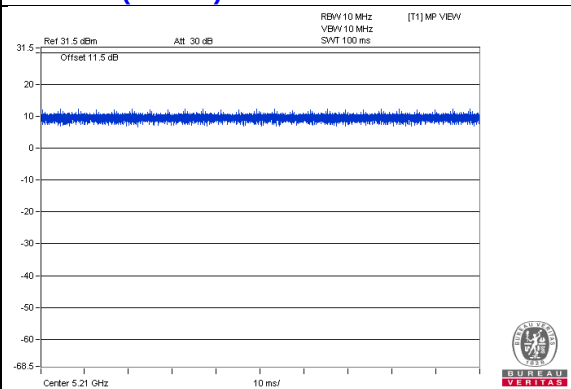
**802.11ac (VHT20)**



**802.11ac (VHT40)**



**802.11ac (VHT80)**



### 3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

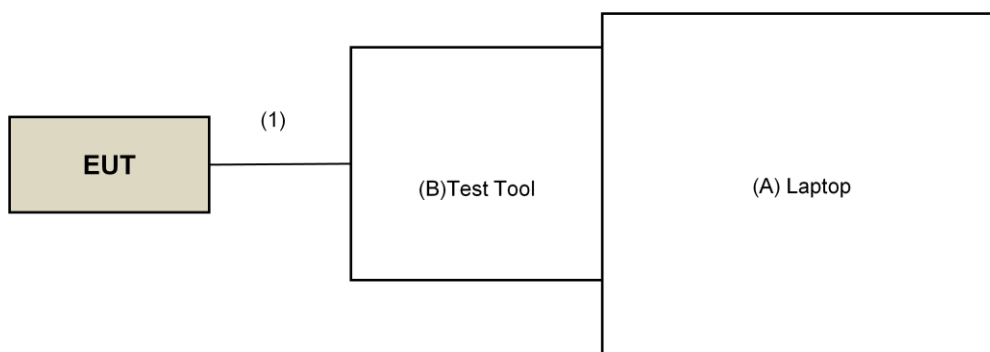
| ID | Product   | Brand   | Model No. | Serial No. | FCC ID  | Remarks            |
|----|-----------|---------|-----------|------------|---------|--------------------|
| A. | Laptop    | DELL    | E6420     | 482T3R1    | FCC DoC | Provided by Lab    |
| B. | Test Tool | HON HAI | NA        | NA         | NA      | Supplied by client |

Note:

1. All power cords of the above support units are non-shielded (1.8m).

| ID | Descriptions  | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks                          |
|----|---------------|------|------------|--------------------|--------------|----------------------------------|
| 1. | Console Cable | 1    | 0.06       | No                 | 0            | Supplied by client(for RF Setup) |

#### 3.4.1 Configuration of System under Test



### 3.5 General Description of Applied Standard

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC Part 15, Subpart E (15.407)**

**KDB 789033 D02 General UNII Test Procedure New Rules v01r04**

**ANSI C63.10-2013**

All test items have been performed and recorded as per the above standards.

**NOTE:** The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

## 4 Test Types and Results

### 4.1 Radiated Emission and Bandedge Measurement

#### 4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009 ~ 0.490     | 2400/F(kHz)                       | 300                           |
| 0.490 ~ 1.705     | 24000/F(kHz)                      | 30                            |
| 1.705 ~ 30.0      | 30                                | 30                            |
| 30 ~ 88           | 100                               | 3                             |
| 88 ~ 216          | 150                               | 3                             |
| 216 ~ 960         | 200                               | 3                             |
| Above 960         | 500                               | 3                             |

#### NOTE:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

| Applicable To                                                                                    |                                     |                  | Limit                                                                                                                               |                                                                                                                                         |
|--------------------------------------------------------------------------------------------------|-------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 789033 D02 General UNII Test Procedure<br>New Rules v01r04                                       |                                     |                  | Field Strength at 3m                                                                                                                |                                                                                                                                         |
|                                                                                                  |                                     |                  | PK:74 (dBµV/m)                                                                                                                      | AV:54 (dBµV/m)                                                                                                                          |
| Frequency Band                                                                                   | Applicable To                       |                  | EIRP Limit                                                                                                                          | Equivalent Field Strength at 3m                                                                                                         |
| 5150~5250 MHz                                                                                    | 15.407(b)(1)                        |                  | PK:-27 (dBm/MHz)                                                                                                                    | PK:68.2(dBµV/m)                                                                                                                         |
| 5250~5350 MHz                                                                                    | 15.407(b)(2)                        |                  |                                                                                                                                     |                                                                                                                                         |
| 5470~5725 MHz                                                                                    | 15.407(b)(3)                        |                  |                                                                                                                                     |                                                                                                                                         |
| 5725~5850 MHz                                                                                    | <input checked="" type="checkbox"/> | 15.407(b)(4)(i)  | PK:-27 (dBm/MHz) <sup>*1</sup><br>PK:10 (dBm/MHz) <sup>*2</sup><br>PK:15.6 (dBm/MHz) <sup>*3</sup><br>PK:27 (dBm/MHz) <sup>*4</sup> | PK: 68.2(dBµV/m) <sup>*1</sup><br>PK:105.2 (dBµV/m) <sup>*2</sup><br>PK: 110.8(dBµV/m) <sup>*3</sup><br>PK:122.2 (dBµV/m) <sup>*4</sup> |
|                                                                                                  | <input type="checkbox"/>            | 15.407(b)(4)(ii) | Emission limits in section 15.247(d)                                                                                                |                                                                                                                                         |
| <sup>*1</sup> beyond 75 MHz or more above of the band edge.                                      |                                     |                  | <sup>*2</sup> below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.                                                |                                                                                                                                         |
| <sup>*3</sup> below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. |                                     |                  | <sup>*4</sup> from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.                |                                                                                                                                         |

#### Note:

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$

#### 4.1.2 Test Instruments

For below 1GHz test:

| DESCRIPTION & MANUFACTURER                     | MODEL NO.            | SERIAL NO.                    | CALIBRATED DATE | CALIBRATED UNTIL |
|------------------------------------------------|----------------------|-------------------------------|-----------------|------------------|
| Test Receiver<br>Agilent                       | N9038A               | MY50010156                    | July 12, 2017   | July 11, 2018    |
| Pre-Amplifier <sup>(*)</sup><br>EMCI           | EMC001340            | 980142                        | Jan. 20, 2016   | Jan. 19, 2018    |
| Loop Antenna <sup>(*)</sup><br>Electro-Metrics | EM-6879              | 264                           | Dec. 16, 2016   | Dec. 15, 2018    |
| RF Cable                                       | NA                   | LOOPCAB-001<br>LOOPCAB-002    | Jan. 17, 2017   | Jan. 16, 2018    |
| Pre-Amplifier<br>Mini-Circuits                 | ZFL-1000VH2B         | AMP-ZFL-05                    | May 06, 2017    | May 05, 2018     |
| Trilog Broadband Antenna<br>SCHWARZBECK        | VULB 9168            | 9168-361                      | Dec. 29, 2016   | Dec. 28, 2017    |
| RF Cable                                       | 8D                   | 966-3-1<br>966-3-2<br>966-3-3 | Apr. 01, 2017   | Mar. 31, 2018    |
| Fixed attenuator<br>Mini-Circuits              | UNAT-5+              | PAD-3m-3-01                   | Oct. 03, 2017   | Oct. 02, 2018    |
| Software                                       | ADT_Radiated_V8.7.08 | NA                            | NA              | NA               |
| Antenna Tower & Turn Table<br>Max-Full         | MF-7802              | MF780208406                   | NA              | NA               |

#### Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. \*The calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in 966 Chamber No. 3.
4. Loop antenna was used for all emissions below 30 MHz.
5. The CANADA Site Registration No. is 20331-1
6. Tested Date: Oct. 06, 2017

**For other test:**

| DESCRIPTION & MANUFACTURER                       | MODEL NO.            | SERIAL NO.         | CALIBRATED DATE | CALIBRATED UNTIL |
|--------------------------------------------------|----------------------|--------------------|-----------------|------------------|
| Test Receiver<br>Agilent                         | N9038A               | MY50010156         | July 12, 2017   | July 11, 2018    |
| Horn_Antenna<br>SCHWARZBECK                      | BBHA9120-D           | 9120D-406          | Dec. 28, 2016   | Dec. 27, 2017    |
| Pre-Amplifier<br>EMCI                            | EMC12630SE           | 980384             | Feb. 02, 2017   | Feb. 01, 2018    |
| RF Cable                                         | EMC104-SM-SM-1200    | 160922             | Feb. 02, 2017   | Feb. 01, 2018    |
|                                                  | EMC104-SM-SM-2000    | 150317             | Mar. 29, 2017   | Mar. 28, 2018    |
|                                                  | EMC104-SM-SM-5000    | 150322             | Mar. 29, 2017   | Mar. 28, 2018    |
| Spectrum Analyzer<br>Keysight                    | N9030A               | MY54490679         | July 25, 2017   | July 24, 2018    |
| Pre-Amplifier<br>EMCI                            | EMC184045SE          | 980386             | Feb. 02, 2017   | Feb. 01, 2018    |
| Horn_Antenna<br>SCHWARZBECK                      | BBHA 9170            | BBHA9170608        | Dec. 15, 2016   | Dec. 14, 2017    |
| RF Cable                                         | SUCOFLEX 102         | 36432/2<br>36433/2 | Jan. 15, 2017   | Jan. 14, 2018    |
| Software                                         | ADT_Radiated_V8.7.08 | NA                 | NA              | NA               |
| Antenna Tower & Turn Table<br>Max-Full           | MF-7802              | MF780208406        | NA              | NA               |
| Boresight Antenna Fixture                        | FBA-01               | FBA-SIP01          | NA              | NA               |
| Spectrum Analyzer<br>R&S                         | FSv40                | 100964             | July 1, 2017    | June 30, 2018    |
| Power meter<br>Anritsu                           | ML2495A              | 1014008            | May 11, 2017    | May 10, 2018     |
| Power sensor<br>Anritsu                          | MA2411B              | 0917122            | May 11, 2017    | May 10, 2018     |
| Temperature & Humidity<br>Chamber<br>Giant Force | GTH-150-40-SP-AR     | MAA0812-008        | Jan. 11, 2017   | Jan. 10, 2018    |
| DC Power Supply<br>Topward                       | 6603D                | 795558             | NA              | NA               |
| Digital Multimeter<br>FLUKE                      | 87III                | 73680266           | Nov. 10, 2016   | Nov. 09, 2017    |

**Note:**

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 3.
3. The CANADA Site Registration No. is 20331-1
- 4 Tested Date: Sep. 27 to 30 2017

#### 4.1.3 Test Procedure

##### **For Radiated emission below 30MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Both X and Y axes of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

##### **NOTE:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

##### **For Radiated emission above 30MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

##### **Note:**

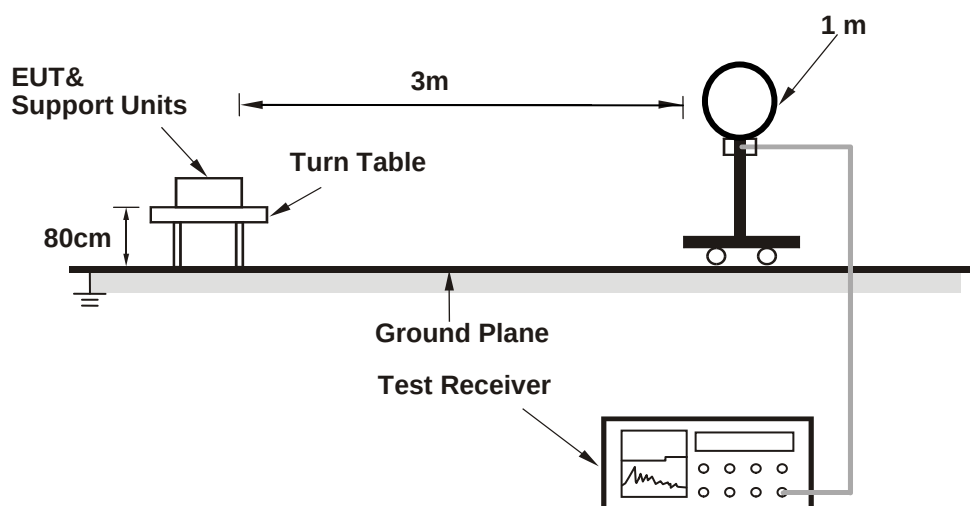
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98%) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

#### 4.1.4 Deviation from Test Standard

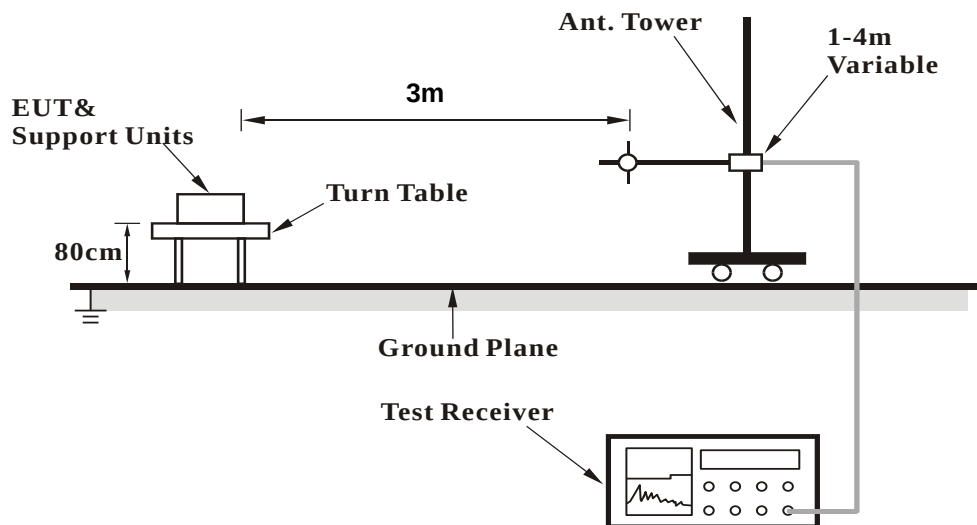
No deviation.

#### 4.1.5 Test Setup

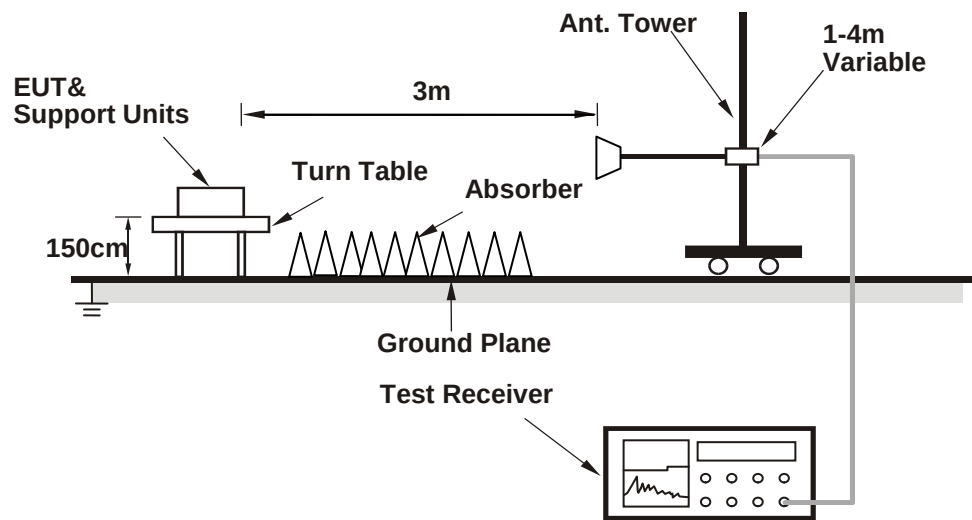
##### For Radiated emission below 30MHz



##### For Radiated emission 30MHz to 1GHz



### For Radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.1.6 EUT Operating Condition

- Connected the EUT with the Laptop.
- Controlling software (MPTool.exe[Ver1.0.0.10]) has been activated to set the EUT on specific status.

#### 4.1.7 Test Results

##### Above 1GHz Data:

##### 802.11a

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 36 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 65.1 PK                       | 74.0              | -8.9           | 3.13 H                   | 155                        | 61.4                   | 3.7                            |
| 2                                                   | 5150.00        | 50.8 AV                       | 54.0              | -3.2           | 3.13 H                   | 155                        | 47.1                   | 3.7                            |
| 3                                                   | *5180.00       | 108.0 PK                      |                   |                | 3.13 H                   | 155                        | 104.3                  | 3.7                            |
| 4                                                   | *5180.00       | 99.9 AV                       |                   |                | 3.13 H                   | 155                        | 96.2                   | 3.7                            |
| 5                                                   | #10360.00      | 48.0 PK                       | 74.0              | -26.0          | 1.61 H                   | 122                        | 35.0                   | 13.0                           |
| 6                                                   | #10360.00      | 34.5 AV                       | 54.0              | -19.5          | 1.61 H                   | 122                        | 21.5                   | 13.0                           |
| 7                                                   | 15540.00       | 55.5 PK                       | 74.0              | -18.5          | 1.82 H                   | 194                        | 42.4                   | 13.1                           |
| 8                                                   | 15540.00       | 43.1 AV                       | 54.0              | -10.9          | 1.82 H                   | 194                        | 30.0                   | 13.1                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 67.5 PK                       | 74.0              | -6.5           | 2.04 V                   | 95                         | 63.8                   | 3.7                            |
| 2                                                   | 5150.00        | 53.8 AV                       | 54.0              | -0.2           | 2.04 V                   | 95                         | 50.1                   | 3.7                            |
| 3                                                   | *5180.00       | 109.4 PK                      |                   |                | 2.04 V                   | 95                         | 105.7                  | 3.7                            |
| 4                                                   | *5180.00       | 100.7 AV                      |                   |                | 2.04 V                   | 95                         | 97.0                   | 3.7                            |
| 5                                                   | #10360.00      | 49.6 PK                       | 74.0              | -24.4          | 1.31 V                   | 322                        | 36.6                   | 13.0                           |
| 6                                                   | #10360.00      | 37.8 AV                       | 54.0              | -16.2          | 1.31 V                   | 322                        | 24.8                   | 13.0                           |
| 7                                                   | 15540.00       | 55.5 PK                       | 74.0              | -18.5          | 1.82 V                   | 165                        | 42.4                   | 13.1                           |
| 8                                                   | 15540.00       | 42.4 AV                       | 54.0              | -11.6          | 1.82 V                   | 165                        | 29.3                   | 13.1                           |

##### REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 40 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5200.00       | 108.5 PK                      |                   |                | 3.19 H                   | 150                        | 104.8                  | 3.7                            |
| 2                                                   | *5200.00       | 101.1 AV                      |                   |                | 3.19 H                   | 150                        | 97.4                   | 3.7                            |
| 3                                                   | #10400.00      | 47.9 PK                       | 74.0              | -26.1          | 1.65 H                   | 135                        | 34.9                   | 13.0                           |
| 4                                                   | #10400.00      | 34.6 AV                       | 54.0              | -19.4          | 1.65 H                   | 135                        | 21.6                   | 13.0                           |
| 5                                                   | 15600.00       | 55.3 PK                       | 74.0              | -18.7          | 1.81 H                   | 184                        | 42.0                   | 13.3                           |
| 6                                                   | 15600.00       | 43.1 AV                       | 54.0              | -10.9          | 1.81 H                   | 184                        | 29.8                   | 13.3                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5200.00       | 110.3 PK                      |                   |                | 2.02 V                   | 90                         | 106.6                  | 3.7                            |
| 2                                                   | *5200.00       | 101.4 AV                      |                   |                | 2.02 V                   | 90                         | 97.7                   | 3.7                            |
| 3                                                   | #10400.00      | 48.9 PK                       | 74.0              | -25.1          | 1.31 V                   | 309                        | 35.9                   | 13.0                           |
| 4                                                   | #10400.00      | 37.5 AV                       | 54.0              | -16.5          | 1.31 V                   | 309                        | 24.5                   | 13.0                           |
| 5                                                   | 15600.00       | 55.7 PK                       | 74.0              | -18.3          | 1.89 V                   | 180                        | 42.4                   | 13.3                           |
| 6                                                   | 15600.00       | 43.4 AV                       | 54.0              | -10.6          | 1.89 V                   | 180                        | 30.1                   | 13.3                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 48 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5240.00       | 107.4 PK                      |                   |                | 3.14 H                   | 157                        | 103.6                  | 3.8                            |
| 2                                                   | *5240.00       | 100.4 AV                      |                   |                | 3.14 H                   | 157                        | 96.6                   | 3.8                            |
| 3                                                   | 5350.00        | 51.1 PK                       | 74.0              | -22.9          | 3.14 H                   | 157                        | 47.0                   | 4.1                            |
| 4                                                   | 5350.00        | 39.2 AV                       | 54.0              | -14.8          | 3.14 H                   | 157                        | 35.1                   | 4.1                            |
| 5                                                   | #10480.00      | 47.3 PK                       | 74.0              | -26.7          | 1.64 H                   | 119                        | 34.1                   | 13.2                           |
| 6                                                   | #10480.00      | 34.1 AV                       | 54.0              | -19.9          | 1.64 H                   | 119                        | 20.9                   | 13.2                           |
| 7                                                   | 15720.00       | 55.3 PK                       | 74.0              | -18.7          | 1.81 H                   | 180                        | 41.7                   | 13.6                           |
| 8                                                   | 15720.00       | 42.9 AV                       | 54.0              | -11.1          | 1.81 H                   | 180                        | 29.3                   | 13.6                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5240.00       | 109.8 PK                      |                   |                | 2.04 V                   | 94                         | 106.0                  | 3.8                            |
| 2                                                   | *5240.00       | 100.9 AV                      |                   |                | 2.04 V                   | 94                         | 97.1                   | 3.8                            |
| 3                                                   | 5350.00        | 51.4 PK                       | 74.0              | -22.6          | 2.04 V                   | 94                         | 47.3                   | 4.1                            |
| 4                                                   | 5350.00        | 39.3 AV                       | 54.0              | -14.7          | 2.04 V                   | 94                         | 35.2                   | 4.1                            |
| 5                                                   | #10480.00      | 49.8 PK                       | 74.0              | -24.2          | 1.34 V                   | 316                        | 36.6                   | 13.2                           |
| 6                                                   | #10480.00      | 38.1 AV                       | 54.0              | -15.9          | 1.34 V                   | 316                        | 24.9                   | 13.2                           |
| 7                                                   | 15720.00       | 55.6 PK                       | 74.0              | -18.4          | 1.80 V                   | 176                        | 42.0                   | 13.6                           |
| 8                                                   | 15720.00       | 42.6 AV                       | 54.0              | -11.4          | 1.80 V                   | 176                        | 29.0                   | 13.6                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 52 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 51.0 PK                       | 74.0              | -23.0          | 3.20 H                   | 135                        | 47.3                   | 3.7                            |
| 2                                                   | 5150.00        | 39.4 AV                       | 54.0              | -14.6          | 3.20 H                   | 135                        | 35.7                   | 3.7                            |
| 3                                                   | *5260.00       | 109.0 PK                      |                   |                | 3.20 H                   | 135                        | 105.0                  | 4.0                            |
| 4                                                   | *5260.00       | 101.4 AV                      |                   |                | 3.20 H                   | 135                        | 97.4                   | 4.0                            |
| 5                                                   | #10520.00      | 48.0 PK                       | 74.0              | -26.0          | 1.64 H                   | 140                        | 34.8                   | 13.2                           |
| 6                                                   | #10520.00      | 34.9 AV                       | 54.0              | -19.1          | 1.64 H                   | 140                        | 21.7                   | 13.2                           |
| 7                                                   | 15780.00       | 55.7 PK                       | 74.0              | -18.3          | 1.86 H                   | 182                        | 42.1                   | 13.6                           |
| 8                                                   | 15780.00       | 43.5 AV                       | 54.0              | -10.5          | 1.86 H                   | 182                        | 29.9                   | 13.6                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 51.6 PK                       | 74.0              | -22.4          | 2.16 V                   | 97                         | 47.9                   | 3.7                            |
| 2                                                   | 5150.00        | 39.6 AV                       | 54.0              | -14.4          | 2.16 V                   | 97                         | 35.9                   | 3.7                            |
| 3                                                   | *5260.00       | 110.6 PK                      |                   |                | 2.16 V                   | 97                         | 106.6                  | 4.0                            |
| 4                                                   | *5260.00       | 101.3 AV                      |                   |                | 2.16 V                   | 97                         | 97.3                   | 4.0                            |
| 5                                                   | #10520.00      | 49.4 PK                       | 74.0              | -24.6          | 1.34 V                   | 307                        | 36.2                   | 13.2                           |
| 6                                                   | #10520.00      | 37.7 AV                       | 54.0              | -16.3          | 1.34 V                   | 307                        | 24.5                   | 13.2                           |
| 7                                                   | 15780.00       | 56.1 PK                       | 74.0              | -17.9          | 1.83 V                   | 175                        | 42.5                   | 13.6                           |
| 8                                                   | 15780.00       | 42.9 AV                       | 54.0              | -11.1          | 1.83 V                   | 175                        | 29.3                   | 13.6                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 60 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5300.00       | 108.2 PK                      |                   |                | 3.14 H                   | 151                        | 104.1                  | 4.1                            |
| 2                                                   | *5300.00       | 100.7 AV                      |                   |                | 3.14 H                   | 151                        | 96.6                   | 4.1                            |
| 3                                                   | 10600.00       | 47.9 PK                       | 74.0              | -26.1          | 1.70 H                   | 136                        | 34.4                   | 13.5                           |
| 4                                                   | 10600.00       | 34.5 AV                       | 54.0              | -19.5          | 1.70 H                   | 136                        | 21.0                   | 13.5                           |
| 5                                                   | 15900.00       | 55.5 PK                       | 74.0              | -18.5          | 1.80 H                   | 170                        | 42.6                   | 12.9                           |
| 6                                                   | 15900.00       | 43.1 AV                       | 54.0              | -10.9          | 1.80 H                   | 170                        | 30.2                   | 12.9                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5300.00       | 110.7 PK                      |                   |                | 2.17 V                   | 85                         | 106.6                  | 4.1                            |
| 2                                                   | *5300.00       | 101.5 AV                      |                   |                | 2.17 V                   | 85                         | 97.4                   | 4.1                            |
| 3                                                   | 10600.00       | 48.8 PK                       | 74.0              | -25.2          | 1.37 V                   | 312                        | 35.3                   | 13.5                           |
| 4                                                   | 10600.00       | 37.4 AV                       | 54.0              | -16.6          | 1.37 V                   | 312                        | 23.9                   | 13.5                           |
| 5                                                   | 15900.00       | 55.9 PK                       | 74.0              | -18.1          | 1.78 V                   | 188                        | 43.0                   | 12.9                           |
| 6                                                   | 15900.00       | 42.4 AV                       | 54.0              | -11.6          | 1.78 V                   | 188                        | 29.5                   | 12.9                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 64 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5320.00       | 107.6 PK                      |                   |                | 3.17 H                   | 168                        | 103.5                  | 4.1                            |
| 2                                                   | *5320.00       | 100.6 AV                      |                   |                | 3.17 H                   | 168                        | 96.5                   | 4.1                            |
| 3                                                   | 5350.00        | 65.4 PK                       | 74.0              | -8.6           | 3.17 H                   | 168                        | 61.3                   | 4.1                            |
| 4                                                   | 5350.00        | 50.2 AV                       | 54.0              | -3.8           | 3.17 H                   | 168                        | 46.1                   | 4.1                            |
| 5                                                   | 10640.00       | 48.1 PK                       | 74.0              | -25.9          | 1.63 H                   | 123                        | 34.6                   | 13.5                           |
| 6                                                   | 10640.00       | 34.8 AV                       | 54.0              | -19.2          | 1.63 H                   | 123                        | 21.3                   | 13.5                           |
| 7                                                   | 15960.00       | 55.5 PK                       | 74.0              | -18.5          | 1.85 H                   | 185                        | 42.6                   | 12.9                           |
| 8                                                   | 15960.00       | 43.0 AV                       | 54.0              | -11.0          | 1.85 H                   | 185                        | 30.1                   | 12.9                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5320.00       | 108.3 PK                      |                   |                | 2.00 V                   | 94                         | 104.2                  | 4.1                            |
| 2                                                   | *5320.00       | 99.6 AV                       |                   |                | 2.00 V                   | 94                         | 95.5                   | 4.1                            |
| 3                                                   | 5350.00        | 68.2 PK                       | 74.0              | -5.8           | 2.00 V                   | 94                         | 64.1                   | 4.1                            |
| 4                                                   | 5350.00        | 53.9 AV                       | 54.0              | -0.1           | 2.00 V                   | 94                         | 49.8                   | 4.1                            |
| 5                                                   | 10640.00       | 48.6 PK                       | 74.0              | -25.4          | 1.37 V                   | 312                        | 35.1                   | 13.5                           |
| 6                                                   | 10640.00       | 37.2 AV                       | 54.0              | -16.8          | 1.37 V                   | 312                        | 23.7                   | 13.5                           |
| 7                                                   | 15960.00       | 56.4 PK                       | 74.0              | -17.6          | 1.81 V                   | 189                        | 43.5                   | 12.9                           |
| 8                                                   | 15960.00       | 43.0 AV                       | 54.0              | -11.0          | 1.81 V                   | 189                        | 30.1                   | 12.9                           |

#### REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 100 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5470.00       | 65.8 PK                       | 74.0              | -8.2           | 3.20 H                   | 170                        | 61.6                   | 4.2                            |
| 2                                                   | #5470.00       | 50.4 AV                       | 54.0              | -3.6           | 3.20 H                   | 170                        | 46.2                   | 4.2                            |
| 3                                                   | *5500.00       | 107.4 PK                      |                   |                | 3.20 H                   | 170                        | 103.2                  | 4.2                            |
| 4                                                   | *5500.00       | 100.3 AV                      |                   |                | 3.20 H                   | 170                        | 96.1                   | 4.2                            |
| 5                                                   | 11000.00       | 47.6 PK                       | 74.0              | -26.4          | 1.71 H                   | 130                        | 33.5                   | 14.1                           |
| 6                                                   | 11000.00       | 34.5 AV                       | 54.0              | -19.5          | 1.71 H                   | 130                        | 20.4                   | 14.1                           |
| 7                                                   | #16500.00      | 55.1 PK                       | 74.0              | -18.9          | 1.84 H                   | 175                        | 40.6                   | 14.5                           |
| 8                                                   | #16500.00      | 42.7 AV                       | 54.0              | -11.3          | 1.84 H                   | 175                        | 28.2                   | 14.5                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5470.00       | 69.1 PK                       | 74.0              | -4.9           | 2.06 V                   | 100                        | 64.9                   | 4.2                            |
| 2                                                   | #5470.00       | 53.9 AV                       | 54.0              | -0.1           | 2.06 V                   | 100                        | 49.7                   | 4.2                            |
| 3                                                   | *5500.00       | 110.0 PK                      |                   |                | 2.06 V                   | 100                        | 105.8                  | 4.2                            |
| 4                                                   | *5500.00       | 100.8 AV                      |                   |                | 2.06 V                   | 100                        | 96.6                   | 4.2                            |
| 5                                                   | 11000.00       | 49.9 PK                       | 74.0              | -24.1          | 1.29 V                   | 320                        | 35.8                   | 14.1                           |
| 6                                                   | 11000.00       | 37.9 AV                       | 54.0              | -16.1          | 1.29 V                   | 320                        | 23.8                   | 14.1                           |
| 7                                                   | #16500.00      | 55.8 PK                       | 74.0              | -18.2          | 1.79 V                   | 170                        | 41.3                   | 14.5                           |
| 8                                                   | #16500.00      | 42.8 AV                       | 54.0              | -11.2          | 1.79 V                   | 170                        | 28.3                   | 14.5                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 116 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5580.00       | 108.0 PK                      |                   |                | 3.09 H                   | 164                        | 103.8                  | 4.2                            |
| 2                                                   | *5580.00       | 100.7 AV                      |                   |                | 3.09 H                   | 164                        | 96.5                   | 4.2                            |
| 3                                                   | 11160.00       | 47.8 PK                       | 74.0              | -26.2          | 1.61 H                   | 140                        | 34.1                   | 13.7                           |
| 4                                                   | 11160.00       | 34.7 AV                       | 54.0              | -19.3          | 1.61 H                   | 140                        | 21.0                   | 13.7                           |
| 5                                                   | #16740.00      | 55.4 PK                       | 74.0              | -18.6          | 1.86 H                   | 186                        | 39.7                   | 15.7                           |
| 6                                                   | #16740.00      | 42.9 AV                       | 54.0              | -11.1          | 1.86 H                   | 186                        | 27.2                   | 15.7                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5580.00       | 110.3 PK                      |                   |                | 2.10 V                   | 89                         | 106.1                  | 4.2                            |
| 2                                                   | *5580.00       | 101.5 AV                      |                   |                | 2.10 V                   | 89                         | 97.3                   | 4.2                            |
| 3                                                   | 11160.00       | 49.9 PK                       | 74.0              | -24.1          | 1.38 V                   | 308                        | 36.2                   | 13.7                           |
| 4                                                   | 11160.00       | 38.0 AV                       | 54.0              | -16.0          | 1.38 V                   | 308                        | 24.3                   | 13.7                           |
| 5                                                   | #16740.00      | 56.5 PK                       | 74.0              | -17.5          | 1.83 V                   | 177                        | 40.8                   | 15.7                           |
| 6                                                   | #16740.00      | 43.1 AV                       | 54.0              | -10.9          | 1.83 V                   | 177                        | 27.4                   | 15.7                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |                |                      |              |
|-----------------|----------------|----------------------|--------------|
| CHANNEL         | TX Channel 140 | DETECTOR<br>FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz   |                      | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5700.00       | 108.0 PK                      |                   |                | 3.09 H                   | 145                        | 103.5                  | 4.5                            |
| 2                                                   | *5700.00       | 100.2 AV                      |                   |                | 3.09 H                   | 145                        | 95.7                   | 4.5                            |
| 3                                                   | #5725.00       | 65.2 PK                       | 74.0              | -8.8           | 3.09 H                   | 145                        | 60.8                   | 4.4                            |
| 4                                                   | #5725.00       | 50.6 AV                       | 54.0              | -3.4           | 3.09 H                   | 145                        | 46.2                   | 4.4                            |
| 5                                                   | 11400.00       | 47.4 PK                       | 74.0              | -26.6          | 1.64 H                   | 125                        | 33.8                   | 13.6                           |
| 6                                                   | 11400.00       | 34.3 AV                       | 54.0              | -19.7          | 1.64 H                   | 125                        | 20.7                   | 13.6                           |
| 7                                                   | #17100.00      | 54.9 PK                       | 74.0              | -19.1          | 1.80 H                   | 179                        | 37.5                   | 17.4                           |
| 8                                                   | #17100.00      | 42.6 AV                       | 54.0              | -11.4          | 1.80 H                   | 179                        | 25.2                   | 17.4                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5700.00       | 108.8 PK                      |                   |                | 2.06 V                   | 99                         | 104.3                  | 4.5                            |
| 2                                                   | *5700.00       | 99.9 AV                       |                   |                | 2.06 V                   | 99                         | 95.4                   | 4.5                            |
| 3                                                   | #5725.00       | 69.8 PK                       | 74.0              | -4.2           | 2.06 V                   | 99                         | 65.4                   | 4.4                            |
| 4                                                   | #5725.00       | 53.9 AV                       | 54.0              | -0.1           | 2.06 V                   | 99                         | 49.5                   | 4.4                            |
| 5                                                   | 11400.00       | 49.4 PK                       | 74.0              | -24.6          | 1.32 V                   | 319                        | 35.8                   | 13.6                           |
| 6                                                   | 11400.00       | 37.7 AV                       | 54.0              | -16.3          | 1.32 V                   | 319                        | 24.1                   | 13.6                           |
| 7                                                   | #17100.00      | 56.9 PK                       | 74.0              | -17.1          | 1.83 V                   | 187                        | 39.5                   | 17.4                           |
| 8                                                   | #17100.00      | 43.4 AV                       | 54.0              | -10.6          | 1.83 V                   | 187                        | 26.0                   | 17.4                           |

#### REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 149 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5648.72       | 53.2 PK                       | 68.2              | -15.0          | 3.09 H                   | 124                        | 48.8                   | 4.4                            |
| 2                                                   | *5745.00       | 108.7 PK                      |                   |                | 3.09 H                   | 124                        | 104.3                  | 4.4                            |
| 3                                                   | *5745.00       | 100.9 AV                      |                   |                | 3.09 H                   | 124                        | 96.5                   | 4.4                            |
| 4                                                   | #6004.84       | 52.6 PK                       | 68.2              | -15.6          | 3.09 H                   | 124                        | 47.8                   | 4.8                            |
| 5                                                   | 11490.00       | 50.8 PK                       | 74.0              | -23.2          | 1.99 H                   | 193                        | 37.3                   | 13.5                           |
| 6                                                   | 11490.00       | 39.7 AV                       | 54.0              | -14.3          | 1.99 H                   | 193                        | 26.2                   | 13.5                           |
| 7                                                   | #17235.00      | 50.2 PK                       | 74.0              | -23.8          | 1.65 H                   | 267                        | 32.9                   | 17.3                           |
| 8                                                   | #17235.00      | 39.2 AV                       | 54.0              | -14.8          | 1.65 H                   | 267                        | 21.9                   | 17.3                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5622.63       | 57.3 PK                       | 68.2              | -10.9          | 2.02 V                   | 92                         | 52.9                   | 4.4                            |
| 2                                                   | *5745.00       | 112.4 PK                      |                   |                | 2.02 V                   | 92                         | 108.0                  | 4.4                            |
| 3                                                   | *5745.00       | 105.0 AV                      |                   |                | 2.02 V                   | 92                         | 100.6                  | 4.4                            |
| 4                                                   | #5969.40       | 58.4 PK                       | 68.2              | -9.8           | 2.02 V                   | 92                         | 53.7                   | 4.7                            |
| 5                                                   | 11490.00       | 55.8 PK                       | 74.0              | -18.2          | 2.11 V                   | 177                        | 42.3                   | 13.5                           |
| 6                                                   | 11490.00       | 42.4 AV                       | 54.0              | -11.6          | 2.11 V                   | 177                        | 28.9                   | 13.5                           |
| 7                                                   | #17235.00      | 53.3 PK                       | 74.0              | -20.7          | 2.29 V                   | 158                        | 36.0                   | 17.3                           |
| 8                                                   | #17235.00      | 40.6 AV                       | 54.0              | -13.4          | 2.29 V                   | 158                        | 23.3                   | 17.3                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 157 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5629.69       | 52.5 PK                       | 68.2              | -15.7          | 3.10 H                   | 121                        | 48.1                   | 4.4                            |
| 2                                                   | *5785.00       | 108.4 PK                      |                   |                | 3.10 H                   | 121                        | 104.0                  | 4.4                            |
| 3                                                   | *5785.00       | 100.9 AV                      |                   |                | 3.10 H                   | 121                        | 96.5                   | 4.4                            |
| 4                                                   | #5954.53       | 53.2 PK                       | 68.2              | -15.0          | 3.10 H                   | 121                        | 48.5                   | 4.7                            |
| 5                                                   | 11570.00       | 50.3 PK                       | 74.0              | -23.7          | 1.98 H                   | 191                        | 36.8                   | 13.5                           |
| 6                                                   | 11570.00       | 39.4 AV                       | 54.0              | -14.6          | 1.98 H                   | 191                        | 25.9                   | 13.5                           |
| 7                                                   | #17355.00      | 50.0 PK                       | 74.0              | -24.0          | 1.69 H                   | 278                        | 32.0                   | 18.0                           |
| 8                                                   | #17355.00      | 39.1 AV                       | 54.0              | -14.9          | 1.69 H                   | 278                        | 21.1                   | 18.0                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5631.72       | 58.3 PK                       | 68.2              | -9.9           | 1.96 V                   | 92                         | 53.9                   | 4.4                            |
| 2                                                   | *5785.00       | 112.0 PK                      |                   |                | 1.96 V                   | 92                         | 107.6                  | 4.4                            |
| 3                                                   | *5785.00       | 104.7 AV                      |                   |                | 1.96 V                   | 92                         | 100.3                  | 4.4                            |
| 4                                                   | #5996.68       | 57.7 PK                       | 68.2              | -10.5          | 1.96 V                   | 92                         | 53.0                   | 4.7                            |
| 5                                                   | 11570.00       | 55.5 PK                       | 74.0              | -18.5          | 2.07 V                   | 170                        | 42.0                   | 13.5                           |
| 6                                                   | 11570.00       | 42.4 AV                       | 54.0              | -11.6          | 2.07 V                   | 170                        | 28.9                   | 13.5                           |
| 7                                                   | #17355.00      | 53.5 PK                       | 74.0              | -20.5          | 2.27 V                   | 147                        | 35.5                   | 18.0                           |
| 8                                                   | #17355.00      | 41.1 AV                       | 54.0              | -12.9          | 2.27 V                   | 147                        | 23.1                   | 18.0                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 165 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5572.52       | 52.6 PK                       | 68.2              | -15.6          | 3.03 H                   | 122                        | 48.4                   | 4.2                            |
| 2                                                   | *5825.00       | 108.1 PK                      |                   |                | 3.03 H                   | 122                        | 103.7                  | 4.4                            |
| 3                                                   | *5825.00       | 100.6 AV                      |                   |                | 3.03 H                   | 122                        | 96.2                   | 4.4                            |
| 4                                                   | #5964.79       | 52.8 PK                       | 68.2              | -15.4          | 3.03 H                   | 122                        | 48.1                   | 4.7                            |
| 5                                                   | 11650.00       | 51.4 PK                       | 74.0              | -22.6          | 1.97 H                   | 206                        | 37.7                   | 13.7                           |
| 6                                                   | 11650.00       | 40.1 AV                       | 54.0              | -13.9          | 1.97 H                   | 206                        | 26.4                   | 13.7                           |
| 7                                                   | #17475.00      | 50.5 PK                       | 74.0              | -23.5          | 1.71 H                   | 282                        | 31.9                   | 18.6                           |
| 8                                                   | #17475.00      | 39.5 AV                       | 54.0              | -14.5          | 1.71 H                   | 282                        | 20.9                   | 18.6                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5600.43       | 58.9 PK                       | 68.2              | -9.3           | 2.04 V                   | 107                        | 54.5                   | 4.4                            |
| 2                                                   | *5825.00       | 111.7 PK                      |                   |                | 2.04 V                   | 107                        | 107.3                  | 4.4                            |
| 3                                                   | *5825.00       | 104.5 AV                      |                   |                | 2.04 V                   | 107                        | 100.1                  | 4.4                            |
| 4                                                   | #5989.98       | 58.1 PK                       | 68.2              | -10.1          | 2.04 V                   | 107                        | 53.4                   | 4.7                            |
| 5                                                   | 11650.00       | 56.2 PK                       | 74.0              | -17.8          | 2.08 V                   | 165                        | 42.5                   | 13.7                           |
| 6                                                   | 11650.00       | 42.6 AV                       | 54.0              | -11.4          | 2.08 V                   | 165                        | 28.9                   | 13.7                           |
| 7                                                   | #17475.00      | 53.1 PK                       | 74.0              | -20.9          | 2.35 V                   | 164                        | 34.5                   | 18.6                           |
| 8                                                   | #17475.00      | 40.5 AV                       | 54.0              | -13.5          | 2.35 V                   | 164                        | 21.9                   | 18.6                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

## 802.11ac (VHT20)

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| CHANNEL         | TX Channel 36 | DETECTOR<br>FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                      | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 67.8 PK                       | 74.0              | -6.2           | 3.16 H                   | 146                        | 64.1                   | 3.7                            |
| 2                                                   | 5150.00        | 51.9 AV                       | 54.0              | -2.1           | 3.16 H                   | 146                        | 48.2                   | 3.7                            |
| 3                                                   | *5180.00       | 109.4 PK                      |                   |                | 3.16 H                   | 146                        | 105.7                  | 3.7                            |
| 4                                                   | *5180.00       | 99.9 AV                       |                   |                | 3.16 H                   | 146                        | 96.2                   | 3.7                            |
| 5                                                   | #10360.00      | 48.6 PK                       | 74.0              | -25.4          | 1.69 H                   | 131                        | 35.6                   | 13.0                           |
| 6                                                   | #10360.00      | 35.4 AV                       | 54.0              | -18.6          | 1.69 H                   | 131                        | 22.4                   | 13.0                           |
| 7                                                   | 15540.00       | 55.1 PK                       | 74.0              | -18.9          | 1.87 H                   | 168                        | 42.0                   | 13.1                           |
| 8                                                   | 15540.00       | 43.2 AV                       | 54.0              | -10.8          | 1.87 H                   | 168                        | 30.1                   | 13.1                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 71.3 PK                       | 74.0              | -2.7           | 2.00 V                   | 96                         | 67.6                   | 3.7                            |
| 2                                                   | 5150.00        | 53.9 AV                       | 54.0              | -0.1           | 2.00 V                   | 96                         | 50.2                   | 3.7                            |
| 3                                                   | *5180.00       | 109.9 PK                      |                   |                | 2.00 V                   | 96                         | 106.2                  | 3.7                            |
| 4                                                   | *5180.00       | 100.4 AV                      |                   |                | 2.00 V                   | 96                         | 96.7                   | 3.7                            |
| 5                                                   | #10360.00      | 49.1 PK                       | 74.0              | -24.9          | 1.31 V                   | 299                        | 36.1                   | 13.0                           |
| 6                                                   | #10360.00      | 37.7 AV                       | 54.0              | -16.3          | 1.31 V                   | 299                        | 24.7                   | 13.0                           |
| 7                                                   | 15540.00       | 55.4 PK                       | 74.0              | -18.6          | 1.79 V                   | 180                        | 42.3                   | 13.1                           |
| 8                                                   | 15540.00       | 42.4 AV                       | 54.0              | -11.6          | 1.79 V                   | 180                        | 29.3                   | 13.1                           |

## REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " \* ": Fundamental frequency.
- " # ": The radiated frequency is out of the restricted band.

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 40 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5200.00       | 109.6 PK                      |                   |                | 3.12 H                   | 153                        | 105.9                  | 3.7                            |
| 2                                                   | *5200.00       | 100.0 AV                      |                   |                | 3.12 H                   | 153                        | 96.3                   | 3.7                            |
| 3                                                   | #10400.00      | 49.1 PK                       | 74.0              | -24.9          | 1.70 H                   | 140                        | 36.1                   | 13.0                           |
| 4                                                   | #10400.00      | 35.7 AV                       | 54.0              | -18.3          | 1.70 H                   | 140                        | 22.7                   | 13.0                           |
| 5                                                   | 15600.00       | 54.6 PK                       | 74.0              | -19.4          | 1.93 H                   | 176                        | 41.3                   | 13.3                           |
| 6                                                   | 15600.00       | 43.0 AV                       | 54.0              | -11.0          | 1.93 H                   | 176                        | 29.7                   | 13.3                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5200.00       | 110.8 PK                      |                   |                | 2.03 V                   | 94                         | 107.1                  | 3.7                            |
| 2                                                   | *5200.00       | 101.7 AV                      |                   |                | 2.03 V                   | 94                         | 98.0                   | 3.7                            |
| 3                                                   | #10400.00      | 49.1 PK                       | 74.0              | -24.9          | 1.27 V                   | 306                        | 36.1                   | 13.0                           |
| 4                                                   | #10400.00      | 37.6 AV                       | 54.0              | -16.4          | 1.27 V                   | 306                        | 24.6                   | 13.0                           |
| 5                                                   | 15600.00       | 55.3 PK                       | 74.0              | -18.7          | 1.83 V                   | 169                        | 42.0                   | 13.3                           |
| 6                                                   | 15600.00       | 43.2 AV                       | 54.0              | -10.8          | 1.83 V                   | 169                        | 29.9                   | 13.3                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 48 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5240.00       | 109.3 PK                      |                   |                | 3.14 H                   | 139                        | 105.5                  | 3.8                            |
| 2                                                   | *5240.00       | 99.7 AV                       |                   |                | 3.14 H                   | 139                        | 95.9                   | 3.8                            |
| 3                                                   | 5350.00        | 52.0 PK                       | 74.0              | -22.0          | 3.14 H                   | 139                        | 47.9                   | 4.1                            |
| 4                                                   | 5350.00        | 39.3 AV                       | 54.0              | -14.7          | 3.14 H                   | 139                        | 35.2                   | 4.1                            |
| 5                                                   | #10480.00      | 48.2 PK                       | 74.0              | -25.8          | 1.72 H                   | 133                        | 35.0                   | 13.2                           |
| 6                                                   | #10480.00      | 35.2 AV                       | 54.0              | -18.8          | 1.72 H                   | 133                        | 22.0                   | 13.2                           |
| 7                                                   | 15720.00       | 55.5 PK                       | 74.0              | -18.5          | 1.85 H                   | 159                        | 41.9                   | 13.6                           |
| 8                                                   | 15720.00       | 43.7 AV                       | 54.0              | -10.3          | 1.85 H                   | 159                        | 30.1                   | 13.6                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5240.00       | 109.8 PK                      |                   |                | 2.03 V                   | 96                         | 106.0                  | 3.8                            |
| 2                                                   | *5240.00       | 100.7 AV                      |                   |                | 2.03 V                   | 96                         | 96.9                   | 3.8                            |
| 3                                                   | 5350.00        | 51.8 PK                       | 74.0              | -22.2          | 2.03 V                   | 96                         | 47.7                   | 4.1                            |
| 4                                                   | 5350.00        | 39.2 AV                       | 54.0              | -14.8          | 2.03 V                   | 96                         | 35.1                   | 4.1                            |
| 5                                                   | #10480.00      | 48.8 PK                       | 74.0              | -25.2          | 1.30 V                   | 314                        | 35.6                   | 13.2                           |
| 6                                                   | #10480.00      | 37.4 AV                       | 54.0              | -16.6          | 1.30 V                   | 314                        | 24.2                   | 13.2                           |
| 7                                                   | 15720.00       | 55.1 PK                       | 74.0              | -18.9          | 1.81 V                   | 163                        | 41.5                   | 13.6                           |
| 8                                                   | 15720.00       | 42.8 AV                       | 54.0              | -11.2          | 1.81 V                   | 163                        | 29.2                   | 13.6                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 52 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 51.4 PK                       | 74.0              | -22.6          | 3.26 H                   | 173                        | 47.7                   | 3.7                            |
| 2                                                   | 5150.00        | 38.9 AV                       | 54.0              | -15.1          | 3.26 H                   | 173                        | 35.2                   | 3.7                            |
| 3                                                   | *5260.00       | 108.0 PK                      |                   |                | 3.26 H                   | 173                        | 104.0                  | 4.0                            |
| 4                                                   | *5260.00       | 100.6 AV                      |                   |                | 3.26 H                   | 173                        | 96.6                   | 4.0                            |
| 5                                                   | #10520.00      | 48.0 PK                       | 74.0              | -26.0          | 1.69 H                   | 138                        | 34.8                   | 13.2                           |
| 6                                                   | #10520.00      | 35.0 AV                       | 54.0              | -19.0          | 1.69 H                   | 138                        | 21.8                   | 13.2                           |
| 7                                                   | 15780.00       | 55.2 PK                       | 74.0              | -18.8          | 1.87 H                   | 166                        | 41.6                   | 13.6                           |
| 8                                                   | 15780.00       | 42.9 AV                       | 54.0              | -11.1          | 1.87 H                   | 166                        | 29.3                   | 13.6                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 51.7 PK                       | 74.0              | -22.3          | 2.03 V                   | 98                         | 48.0                   | 3.7                            |
| 2                                                   | 5150.00        | 39.4 AV                       | 54.0              | -14.6          | 2.03 V                   | 98                         | 35.7                   | 3.7                            |
| 3                                                   | *5260.00       | 110.4 PK                      |                   |                | 2.03 V                   | 98                         | 106.4                  | 4.0                            |
| 4                                                   | *5260.00       | 101.0 AV                      |                   |                | 2.03 V                   | 98                         | 97.0                   | 4.0                            |
| 5                                                   | #10520.00      | 49.1 PK                       | 74.0              | -24.9          | 1.34 V                   | 300                        | 35.9                   | 13.2                           |
| 6                                                   | #10520.00      | 37.4 AV                       | 54.0              | -16.6          | 1.34 V                   | 300                        | 24.2                   | 13.2                           |
| 7                                                   | 15780.00       | 56.5 PK                       | 74.0              | -17.5          | 1.77 V                   | 178                        | 42.9                   | 13.6                           |
| 8                                                   | 15780.00       | 43.0 AV                       | 54.0              | -11.0          | 1.77 V                   | 178                        | 29.4                   | 13.6                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 60 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5300.00       | 108.2 PK                      |                   |                | 3.29 H                   | 166                        | 104.1                  | 4.1                            |
| 2                                                   | *5300.00       | 100.6 AV                      |                   |                | 3.29 H                   | 166                        | 96.5                   | 4.1                            |
| 3                                                   | 10600.00       | 47.9 PK                       | 74.0              | -26.1          | 1.70 H                   | 123                        | 34.4                   | 13.5                           |
| 4                                                   | 10600.00       | 35.2 AV                       | 54.0              | -18.8          | 1.70 H                   | 123                        | 21.7                   | 13.5                           |
| 5                                                   | 15900.00       | 55.5 PK                       | 74.0              | -18.5          | 1.86 H                   | 176                        | 42.6                   | 12.9                           |
| 6                                                   | 15900.00       | 43.0 AV                       | 54.0              | -11.0          | 1.86 H                   | 176                        | 30.1                   | 12.9                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5300.00       | 110.2 PK                      |                   |                | 2.04 V                   | 97                         | 106.1                  | 4.1                            |
| 2                                                   | *5300.00       | 101.4 AV                      |                   |                | 2.04 V                   | 97                         | 97.3                   | 4.1                            |
| 3                                                   | 10600.00       | 49.0 PK                       | 74.0              | -25.0          | 1.31 V                   | 295                        | 35.5                   | 13.5                           |
| 4                                                   | 10600.00       | 37.5 AV                       | 54.0              | -16.5          | 1.31 V                   | 295                        | 24.0                   | 13.5                           |
| 5                                                   | 15900.00       | 56.2 PK                       | 74.0              | -17.8          | 1.78 V                   | 186                        | 43.3                   | 12.9                           |
| 6                                                   | 15900.00       | 42.7 AV                       | 54.0              | -11.3          | 1.78 V                   | 186                        | 29.8                   | 12.9                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 64 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5320.00       | 109.3 PK                      |                   |                | 3.18 H                   | 155                        | 105.2                  | 4.1                            |
| 2                                                   | *5320.00       | 99.8 AV                       |                   |                | 3.18 H                   | 155                        | 95.7                   | 4.1                            |
| 3                                                   | 5350.00        | 67.6 PK                       | 74.0              | -6.4           | 3.18 H                   | 155                        | 63.5                   | 4.1                            |
| 4                                                   | 5350.00        | 51.6 AV                       | 54.0              | -2.4           | 3.18 H                   | 155                        | 47.5                   | 4.1                            |
| 5                                                   | 10640.00       | 48.5 PK                       | 74.0              | -25.5          | 1.73 H                   | 128                        | 35.0                   | 13.5                           |
| 6                                                   | 10640.00       | 35.4 AV                       | 54.0              | -18.6          | 1.73 H                   | 128                        | 21.9                   | 13.5                           |
| 7                                                   | 15960.00       | 55.6 PK                       | 74.0              | -18.4          | 1.89 H                   | 150                        | 42.7                   | 12.9                           |
| 8                                                   | 15960.00       | 43.7 AV                       | 54.0              | -10.3          | 1.89 H                   | 150                        | 30.8                   | 12.9                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5320.00       | 108.9 PK                      |                   |                | 2.01 V                   | 94                         | 104.8                  | 4.1                            |
| 2                                                   | *5320.00       | 99.7 AV                       |                   |                | 2.01 V                   | 94                         | 95.6                   | 4.1                            |
| 3                                                   | 5350.00        | 71.0 PK                       | 74.0              | -3.0           | 2.01 V                   | 94                         | 66.9                   | 4.1                            |
| 4                                                   | 5350.00        | 53.7 AV                       | 54.0              | -0.3           | 2.01 V                   | 94                         | 49.6                   | 4.1                            |
| 5                                                   | 10640.00       | 49.2 PK                       | 74.0              | -24.8          | 1.32 V                   | 297                        | 35.7                   | 13.5                           |
| 6                                                   | 10640.00       | 37.3 AV                       | 54.0              | -16.7          | 1.32 V                   | 297                        | 23.8                   | 13.5                           |
| 7                                                   | 15960.00       | 56.2 PK                       | 74.0              | -17.8          | 1.83 V                   | 179                        | 43.3                   | 12.9                           |
| 8                                                   | 15960.00       | 42.9 AV                       | 54.0              | -11.1          | 1.83 V                   | 179                        | 30.0                   | 12.9                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 100 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5470.00       | 68.0 PK                       | 74.0              | -6.0           | 3.17 H                   | 146                        | 63.8                   | 4.2                            |
| 2                                                   | #5470.00       | 52.2 AV                       | 54.0              | -1.8           | 3.17 H                   | 146                        | 48.0                   | 4.2                            |
| 3                                                   | *5500.00       | 109.6 PK                      |                   |                | 3.17 H                   | 146                        | 105.4                  | 4.2                            |
| 4                                                   | *5500.00       | 100.1 AV                      |                   |                | 3.17 H                   | 146                        | 95.9                   | 4.2                            |
| 5                                                   | 11000.00       | 48.5 PK                       | 74.0              | -25.5          | 1.77 H                   | 127                        | 34.4                   | 14.1                           |
| 6                                                   | 11000.00       | 35.4 AV                       | 54.0              | -18.6          | 1.77 H                   | 127                        | 21.3                   | 14.1                           |
| 7                                                   | #16500.00      | 55.1 PK                       | 74.0              | -18.9          | 1.81 H                   | 173                        | 40.6                   | 14.5                           |
| 8                                                   | #16500.00      | 43.6 AV                       | 54.0              | -10.4          | 1.81 H                   | 173                        | 29.1                   | 14.5                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5470.00       | 69.0 PK                       | 74.0              | -5.0           | 2.07 V                   | 89                         | 64.8                   | 4.2                            |
| 2                                                   | #5470.00       | 53.8 AV                       | 54.0              | -0.2           | 2.07 V                   | 89                         | 49.6                   | 4.2                            |
| 3                                                   | *5500.00       | 110.4 PK                      |                   |                | 2.07 V                   | 89                         | 106.2                  | 4.2                            |
| 4                                                   | *5500.00       | 101.2 AV                      |                   |                | 2.07 V                   | 89                         | 97.0                   | 4.2                            |
| 5                                                   | 11000.00       | 49.6 PK                       | 74.0              | -24.4          | 1.31 V                   | 318                        | 35.5                   | 14.1                           |
| 6                                                   | 11000.00       | 38.0 AV                       | 54.0              | -16.0          | 1.31 V                   | 318                        | 23.9                   | 14.1                           |
| 7                                                   | #16500.00      | 55.9 PK                       | 74.0              | -18.1          | 1.86 V                   | 174                        | 41.4                   | 14.5                           |
| 8                                                   | #16500.00      | 42.5 AV                       | 54.0              | -11.5          | 1.86 V                   | 174                        | 28.0                   | 14.5                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 116 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5580.00       | 108.5 PK                      |                   |                | 3.14 H                   | 128                        | 104.3                  | 4.2                            |
| 2                                                   | *5580.00       | 99.2 AV                       |                   |                | 3.14 H                   | 128                        | 95.0                   | 4.2                            |
| 3                                                   | 11160.00       | 47.8 PK                       | 74.0              | -26.2          | 1.73 H                   | 124                        | 34.1                   | 13.7                           |
| 4                                                   | 11160.00       | 34.7 AV                       | 54.0              | -19.3          | 1.73 H                   | 124                        | 21.0                   | 13.7                           |
| 5                                                   | #16740.00      | 55.4 PK                       | 74.0              | -18.6          | 1.79 H                   | 160                        | 39.7                   | 15.7                           |
| 6                                                   | #16740.00      | 43.4 AV                       | 54.0              | -10.6          | 1.79 H                   | 160                        | 27.7                   | 15.7                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5580.00       | 110.3 PK                      |                   |                | 2.03 V                   | 98                         | 106.1                  | 4.2                            |
| 2                                                   | *5580.00       | 101.2 AV                      |                   |                | 2.03 V                   | 98                         | 97.0                   | 4.2                            |
| 3                                                   | 11160.00       | 49.5 PK                       | 74.0              | -24.5          | 1.40 V                   | 293                        | 35.8                   | 13.7                           |
| 4                                                   | 11160.00       | 37.5 AV                       | 54.0              | -16.5          | 1.40 V                   | 293                        | 23.8                   | 13.7                           |
| 5                                                   | #16740.00      | 56.3 PK                       | 74.0              | -17.7          | 1.89 V                   | 161                        | 40.6                   | 15.7                           |
| 6                                                   | #16740.00      | 43.3 AV                       | 54.0              | -10.7          | 1.89 V                   | 161                        | 27.6                   | 15.7                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 140 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5700.00       | 109.0 PK                      |                   |                | 3.10 H                   | 145                        | 104.5                  | 4.5                            |
| 2                                                   | *5700.00       | 99.2 AV                       |                   |                | 3.10 H                   | 145                        | 94.7                   | 4.5                            |
| 3                                                   | #5725.00       | 67.0 PK                       | 74.0              | -7.0           | 3.10 H                   | 145                        | 62.6                   | 4.4                            |
| 4                                                   | #5725.00       | 51.4 AV                       | 54.0              | -2.6           | 3.10 H                   | 145                        | 47.0                   | 4.4                            |
| 5                                                   | 11400.00       | 48.7 PK                       | 74.0              | -25.3          | 1.71 H                   | 122                        | 35.1                   | 13.6                           |
| 6                                                   | 11400.00       | 35.5 AV                       | 54.0              | -18.5          | 1.71 H                   | 122                        | 21.9                   | 13.6                           |
| 7                                                   | #17100.00      | 55.5 PK                       | 74.0              | -18.5          | 1.89 H                   | 144                        | 38.1                   | 17.4                           |
| 8                                                   | #17100.00      | 43.9 AV                       | 54.0              | -10.1          | 1.89 H                   | 144                        | 26.5                   | 17.4                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5700.00       | 109.3 PK                      |                   |                | 2.10 V                   | 91                         | 104.8                  | 4.5                            |
| 2                                                   | *5700.00       | 100.2 AV                      |                   |                | 2.10 V                   | 91                         | 95.7                   | 4.5                            |
| 3                                                   | #5725.00       | 70.2 PK                       | 74.0              | -3.8           | 2.08 V                   | 94                         | 65.8                   | 4.4                            |
| 4                                                   | #5725.00       | 53.7 AV                       | 54.0              | -0.3           | 2.08 V                   | 94                         | 49.3                   | 4.4                            |
| 5                                                   | 11400.00       | 49.4 PK                       | 74.0              | -24.6          | 1.30 V                   | 291                        | 35.8                   | 13.6                           |
| 6                                                   | 11400.00       | 37.7 AV                       | 54.0              | -16.3          | 1.30 V                   | 291                        | 24.1                   | 13.6                           |
| 7                                                   | #17100.00      | 56.0 PK                       | 74.0              | -18.0          | 1.77 V                   | 179                        | 38.6                   | 17.4                           |
| 8                                                   | #17100.00      | 42.9 AV                       | 54.0              | -11.1          | 1.77 V                   | 179                        | 25.5                   | 17.4                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 149 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5594.58       | 52.6 PK                       | 68.2              | -15.6          | 2.99 H                   | 110                        | 48.3                   | 4.3                            |
| 2                                                   | *5745.00       | 107.5 PK                      |                   |                | 2.99 H                   | 110                        | 103.1                  | 4.4                            |
| 3                                                   | *5745.00       | 100.1 AV                      |                   |                | 2.99 H                   | 110                        | 95.7                   | 4.4                            |
| 4                                                   | #5993.34       | 52.5 PK                       | 68.2              | -15.7          | 2.99 H                   | 110                        | 47.8                   | 4.7                            |
| 5                                                   | 11490.00       | 51.1 PK                       | 74.0              | -22.9          | 1.94 H                   | 203                        | 37.6                   | 13.5                           |
| 6                                                   | 11490.00       | 39.6 AV                       | 54.0              | -14.4          | 1.94 H                   | 203                        | 26.1                   | 13.5                           |
| 7                                                   | #17235.00      | 50.6 PK                       | 74.0              | -23.4          | 1.77 H                   | 271                        | 33.3                   | 17.3                           |
| 8                                                   | #17235.00      | 39.8 AV                       | 54.0              | -14.2          | 1.77 H                   | 271                        | 22.5                   | 17.3                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5613.18       | 59.2 PK                       | 68.2              | -9.0           | 1.98 V                   | 98                         | 54.8                   | 4.4                            |
| 2                                                   | *5745.00       | 113.4 PK                      |                   |                | 1.98 V                   | 98                         | 109.0                  | 4.4                            |
| 3                                                   | *5745.00       | 105.3 AV                      |                   |                | 1.98 V                   | 98                         | 100.9                  | 4.4                            |
| 4                                                   | #5944.94       | 58.4 PK                       | 68.2              | -9.8           | 1.98 V                   | 98                         | 53.7                   | 4.7                            |
| 5                                                   | 11490.00       | 55.9 PK                       | 74.0              | -18.1          | 2.14 V                   | 168                        | 42.4                   | 13.5                           |
| 6                                                   | 11490.00       | 42.5 AV                       | 54.0              | -11.5          | 2.14 V                   | 168                        | 29.0                   | 13.5                           |
| 7                                                   | #17235.00      | 53.6 PK                       | 74.0              | -20.4          | 2.38 V                   | 165                        | 36.3                   | 17.3                           |
| 8                                                   | #17235.00      | 41.0 AV                       | 54.0              | -13.0          | 2.38 V                   | 165                        | 23.7                   | 17.3                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 157 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5578.55       | 52.4 PK                       | 68.2              | -15.8          | 3.03 H                   | 123                        | 48.2                   | 4.2                            |
| 2                                                   | *5785.00       | 108.6 PK                      |                   |                | 3.03 H                   | 123                        | 104.2                  | 4.4                            |
| 3                                                   | *5785.00       | 100.8 AV                      |                   |                | 3.03 H                   | 123                        | 96.4                   | 4.4                            |
| 4                                                   | #5949.63       | 51.5 PK                       | 68.2              | -16.7          | 3.03 H                   | 123                        | 46.8                   | 4.7                            |
| 5                                                   | 11570.00       | 51.1 PK                       | 74.0              | -22.9          | 1.94 H                   | 194                        | 37.6                   | 13.5                           |
| 6                                                   | 11570.00       | 39.7 AV                       | 54.0              | -14.3          | 1.94 H                   | 194                        | 26.2                   | 13.5                           |
| 7                                                   | #17355.00      | 50.3 PK                       | 74.0              | -23.7          | 1.67 H                   | 287                        | 32.3                   | 18.0                           |
| 8                                                   | #17355.00      | 39.1 AV                       | 54.0              | -14.9          | 1.67 H                   | 287                        | 21.1                   | 18.0                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5618.89       | 59.0 PK                       | 68.2              | -9.2           | 1.99 V                   | 84                         | 54.6                   | 4.4                            |
| 2                                                   | *5785.00       | 112.5 PK                      |                   |                | 1.99 V                   | 84                         | 108.1                  | 4.4                            |
| 3                                                   | *5785.00       | 104.7 AV                      |                   |                | 1.99 V                   | 84                         | 100.3                  | 4.4                            |
| 4                                                   | #6015.02       | 57.7 PK                       | 68.2              | -10.5          | 1.99 V                   | 84                         | 52.9                   | 4.8                            |
| 5                                                   | 11570.00       | 55.7 PK                       | 74.0              | -18.3          | 2.09 V                   | 186                        | 42.2                   | 13.5                           |
| 6                                                   | 11570.00       | 42.5 AV                       | 54.0              | -11.5          | 2.09 V                   | 186                        | 29.0                   | 13.5                           |
| 7                                                   | #17355.00      | 53.3 PK                       | 74.0              | -20.7          | 2.40 V                   | 165                        | 35.3                   | 18.0                           |
| 8                                                   | #17355.00      | 40.9 AV                       | 54.0              | -13.1          | 2.40 V                   | 165                        | 22.9                   | 18.0                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 165 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5623.23       | 51.5 PK                       | 68.2              | -16.7          | 3.01 H                   | 110                        | 47.1                   | 4.4                            |
| 2                                                   | *5825.00       | 108.1 PK                      |                   |                | 3.01 H                   | 110                        | 103.7                  | 4.4                            |
| 3                                                   | *5825.00       | 100.9 AV                      |                   |                | 3.01 H                   | 110                        | 96.5                   | 4.4                            |
| 4                                                   | #5987.74       | 51.7 PK                       | 68.2              | -16.5          | 3.01 H                   | 110                        | 47.0                   | 4.7                            |
| 5                                                   | 11650.00       | 51.9 PK                       | 74.0              | -22.1          | 1.96 H                   | 219                        | 38.2                   | 13.7                           |
| 6                                                   | 11650.00       | 40.4 AV                       | 54.0              | -13.6          | 1.96 H                   | 219                        | 26.7                   | 13.7                           |
| 7                                                   | #17475.00      | 50.4 PK                       | 74.0              | -23.6          | 1.66 H                   | 296                        | 31.8                   | 18.6                           |
| 8                                                   | #17475.00      | 39.3 AV                       | 54.0              | -14.7          | 1.66 H                   | 296                        | 20.7                   | 18.6                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5643.94       | 59.5 PK                       | 68.2              | -8.7           | 2.03 V                   | 91                         | 55.1                   | 4.4                            |
| 2                                                   | *5825.00       | 112.4 PK                      |                   |                | 2.03 V                   | 91                         | 108.0                  | 4.4                            |
| 3                                                   | *5825.00       | 104.6 AV                      |                   |                | 2.03 V                   | 91                         | 100.2                  | 4.4                            |
| 4                                                   | #5975.05       | 58.9 PK                       | 68.2              | -9.3           | 2.03 V                   | 91                         | 54.2                   | 4.7                            |
| 5                                                   | 11650.00       | 55.6 PK                       | 74.0              | -18.4          | 2.06 V                   | 172                        | 41.9                   | 13.7                           |
| 6                                                   | 11650.00       | 42.5 AV                       | 54.0              | -11.5          | 2.06 V                   | 172                        | 28.8                   | 13.7                           |
| 7                                                   | #17475.00      | 53.2 PK                       | 74.0              | -20.8          | 2.30 V                   | 148                        | 34.6                   | 18.6                           |
| 8                                                   | #17475.00      | 40.5 AV                       | 54.0              | -13.5          | 2.30 V                   | 148                        | 21.9                   | 18.6                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

## 802.11ac (VHT40)

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| CHANNEL         | TX Channel 38 | DETECTOR<br>FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                      | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 67.0 PK                       | 74.0              | -7.0           | 3.16 H                   | 146                        | 63.3                   | 3.7                            |
| 2                                                   | 5150.00        | 53.4 AV                       | 54.0              | -0.6           | 3.16 H                   | 146                        | 49.7                   | 3.7                            |
| 3                                                   | *5190.00       | 101.4 PK                      |                   |                | 3.16 H                   | 146                        | 97.7                   | 3.7                            |
| 4                                                   | *5190.00       | 91.5 AV                       |                   |                | 3.16 H                   | 146                        | 87.8                   | 3.7                            |
| 5                                                   | 5350.00        | 51.1 PK                       | 74.0              | -22.9          | 3.16 H                   | 146                        | 47.0                   | 4.1                            |
| 6                                                   | 5350.00        | 38.4 AV                       | 54.0              | -15.6          | 3.16 H                   | 146                        | 34.3                   | 4.1                            |
| 7                                                   | #10380.00      | 48.0 PK                       | 74.0              | -26.0          | 1.75 H                   | 119                        | 34.9                   | 13.1                           |
| 8                                                   | #10380.00      | 34.8 AV                       | 54.0              | -19.2          | 1.75 H                   | 119                        | 21.7                   | 13.1                           |
| 9                                                   | 15570.00       | 55.6 PK                       | 74.0              | -18.4          | 1.86 H                   | 146                        | 42.3                   | 13.3                           |
| 10                                                  | 15570.00       | 43.8 AV                       | 54.0              | -10.2          | 1.86 H                   | 146                        | 30.5                   | 13.3                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 68.3 PK                       | 74.0              | -5.7           | 2.01 V                   | 96                         | 64.6                   | 3.7                            |
| 2                                                   | 5150.00        | 53.9 AV                       | 54.0              | -0.1           | 2.01 V                   | 96                         | 50.2                   | 3.7                            |
| 3                                                   | *5190.00       | 103.5 PK                      |                   |                | 2.01 V                   | 96                         | 99.8                   | 3.7                            |
| 4                                                   | *5190.00       | 93.9 AV                       |                   |                | 2.01 V                   | 96                         | 90.2                   | 3.7                            |
| 5                                                   | 5350.00        | 51.2 PK                       | 74.0              | -22.8          | 2.01 V                   | 96                         | 47.1                   | 4.1                            |
| 6                                                   | 5350.00        | 38.9 AV                       | 54.0              | -15.1          | 2.01 V                   | 96                         | 34.8                   | 4.1                            |
| 7                                                   | #10380.00      | 48.5 PK                       | 74.0              | -25.5          | 1.24 V                   | 301                        | 35.4                   | 13.1                           |
| 8                                                   | #10380.00      | 37.3 AV                       | 54.0              | -16.7          | 1.24 V                   | 301                        | 24.2                   | 13.1                           |
| 9                                                   | 15570.00       | 55.2 PK                       | 74.0              | -18.8          | 1.79 V                   | 166                        | 41.9                   | 13.3                           |
| 10                                                  | 15570.00       | 43.3 AV                       | 54.0              | -10.7          | 1.79 V                   | 166                        | 30.0                   | 13.3                           |

## REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 46 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5230.00       | 105.8 PK                      |                   |                | 3.12 H                   | 158                        | 102.0                  | 3.8                            |
| 2                                                   | *5230.00       | 95.8 AV                       |                   |                | 3.12 H                   | 158                        | 92.0                   | 3.8                            |
| 3                                                   | 5350.00        | 52.7 PK                       | 74.0              | -21.3          | 3.12 H                   | 158                        | 48.6                   | 4.1                            |
| 4                                                   | 5350.00        | 39.4 AV                       | 54.0              | -14.6          | 3.12 H                   | 158                        | 35.3                   | 4.1                            |
| 5                                                   | #10460.00      | 48.3 PK                       | 74.0              | -25.7          | 1.79 H                   | 129                        | 35.2                   | 13.1                           |
| 6                                                   | #10460.00      | 35.1 AV                       | 54.0              | -18.9          | 1.79 H                   | 129                        | 22.0                   | 13.1                           |
| 7                                                   | 15690.00       | 55.5 PK                       | 74.0              | -18.5          | 1.88 H                   | 130                        | 41.7                   | 13.8                           |
| 8                                                   | 15690.00       | 43.7 AV                       | 54.0              | -10.3          | 1.88 H                   | 130                        | 29.9                   | 13.8                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5230.00       | 106.5 PK                      |                   |                | 2.02 V                   | 95                         | 102.7                  | 3.8                            |
| 2                                                   | *5230.00       | 97.4 AV                       |                   |                | 2.02 V                   | 95                         | 93.6                   | 3.8                            |
| 3                                                   | 5350.00        | 52.5 PK                       | 74.0              | -21.5          | 2.02 V                   | 95                         | 48.4                   | 4.1                            |
| 4                                                   | 5350.00        | 39.6 AV                       | 54.0              | -14.4          | 2.02 V                   | 95                         | 35.5                   | 4.1                            |
| 5                                                   | #10460.00      | 49.1 PK                       | 74.0              | -24.9          | 1.30 V                   | 301                        | 36.0                   | 13.1                           |
| 6                                                   | #10460.00      | 37.7 AV                       | 54.0              | -16.3          | 1.30 V                   | 301                        | 24.6                   | 13.1                           |
| 7                                                   | 15690.00       | 55.7 PK                       | 74.0              | -18.3          | 1.89 V                   | 175                        | 41.9                   | 13.8                           |
| 8                                                   | 15690.00       | 43.5 AV                       | 54.0              | -10.5          | 1.89 V                   | 175                        | 29.7                   | 13.8                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 54 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 52.7 PK                       | 74.0              | -21.3          | 3.12 H                   | 146                        | 49.0                   | 3.7                            |
| 2                                                   | 5150.00        | 39.9 AV                       | 54.0              | -14.1          | 3.12 H                   | 146                        | 36.2                   | 3.7                            |
| 3                                                   | *5270.00       | 106.4 PK                      |                   |                | 3.12 H                   | 146                        | 102.4                  | 4.0                            |
| 4                                                   | *5270.00       | 96.6 AV                       |                   |                | 3.12 H                   | 146                        | 92.6                   | 4.0                            |
| 5                                                   | #10540.00      | 48.4 PK                       | 74.0              | -25.6          | 1.83 H                   | 115                        | 35.1                   | 13.3                           |
| 6                                                   | #10540.00      | 35.3 AV                       | 54.0              | -18.7          | 1.83 H                   | 115                        | 22.0                   | 13.3                           |
| 7                                                   | 15810.00       | 55.4 PK                       | 74.0              | -18.6          | 1.89 H                   | 116                        | 42.0                   | 13.4                           |
| 8                                                   | 15810.00       | 43.5 AV                       | 54.0              | -10.5          | 1.89 H                   | 116                        | 30.1                   | 13.4                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 53.0 PK                       | 74.0              | -21.0          | 1.99 V                   | 93                         | 49.3                   | 3.7                            |
| 2                                                   | 5150.00        | 40.1 AV                       | 54.0              | -13.9          | 1.99 V                   | 93                         | 36.4                   | 3.7                            |
| 3                                                   | *5270.00       | 107.9 PK                      |                   |                | 1.99 V                   | 93                         | 103.9                  | 4.0                            |
| 4                                                   | *5270.00       | 98.5 AV                       |                   |                | 1.99 V                   | 93                         | 94.5                   | 4.0                            |
| 5                                                   | #10540.00      | 49.2 PK                       | 74.0              | -24.8          | 1.33 V                   | 318                        | 35.9                   | 13.3                           |
| 6                                                   | #10540.00      | 37.5 AV                       | 54.0              | -16.5          | 1.33 V                   | 318                        | 24.2                   | 13.3                           |
| 7                                                   | 15810.00       | 55.1 PK                       | 74.0              | -18.9          | 1.83 V                   | 156                        | 41.7                   | 13.4                           |
| 8                                                   | 15810.00       | 43.3 AV                       | 54.0              | -10.7          | 1.83 V                   | 156                        | 29.9                   | 13.4                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| CHANNEL         | TX Channel 62 | DETECTOR<br>FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                      | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5310.00       | 101.5 PK                      |                   |                | 3.22 H                   | 134                        | 97.4                   | 4.1                            |
| 2                                                   | *5310.00       | 91.7 AV                       |                   |                | 3.22 H                   | 134                        | 87.6                   | 4.1                            |
| 3                                                   | 5350.00        | 66.7 PK                       | 74.0              | -7.3           | 3.22 H                   | 134                        | 62.6                   | 4.1                            |
| 4                                                   | 5350.00        | 53.2 AV                       | 54.0              | -0.8           | 3.22 H                   | 134                        | 49.1                   | 4.1                            |
| 5                                                   | 10620.00       | 47.8 PK                       | 74.0              | -26.2          | 1.80 H                   | 132                        | 34.3                   | 13.5                           |
| 6                                                   | 10620.00       | 34.8 AV                       | 54.0              | -19.2          | 1.80 H                   | 132                        | 21.3                   | 13.5                           |
| 7                                                   | 15930.00       | 56.0 PK                       | 74.0              | -18.0          | 1.80 H                   | 150                        | 43.2                   | 12.8                           |
| 8                                                   | 15930.00       | 43.9 AV                       | 54.0              | -10.1          | 1.80 H                   | 150                        | 31.1                   | 12.8                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5310.00       | 102.8 PK                      |                   |                | 2.06 V                   | 96                         | 98.7                   | 4.1                            |
| 2                                                   | *5310.00       | 93.2 AV                       |                   |                | 2.06 V                   | 96                         | 89.1                   | 4.1                            |
| 3                                                   | 5350.00        | 68.6 PK                       | 74.0              | -5.4           | 2.06 V                   | 96                         | 64.5                   | 4.1                            |
| 4                                                   | 5350.00        | 53.9 AV                       | 54.0              | -0.1           | 2.06 V                   | 96                         | 49.8                   | 4.1                            |
| 5                                                   | 10620.00       | 49.8 PK                       | 74.0              | -24.2          | 1.28 V                   | 301                        | 36.3                   | 13.5                           |
| 6                                                   | 10620.00       | 38.0 AV                       | 54.0              | -16.0          | 1.28 V                   | 301                        | 24.5                   | 13.5                           |
| 7                                                   | 15930.00       | 55.3 PK                       | 74.0              | -18.7          | 1.78 V                   | 169                        | 42.5                   | 12.8                           |
| 8                                                   | 15930.00       | 43.3 AV                       | 54.0              | -10.7          | 1.78 V                   | 169                        | 30.5                   | 12.8                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 102 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5470.00       | 63.0 PK                       | 74.0              | -11.0          | 3.13 H                   | 165                        | 58.8                   | 4.2                            |
| 2                                                   | #5470.00       | 50.1 AV                       | 54.0              | -3.9           | 3.13 H                   | 165                        | 45.9                   | 4.2                            |
| 3                                                   | *5510.00       | 101.7 PK                      |                   |                | 3.13 H                   | 165                        | 97.5                   | 4.2                            |
| 4                                                   | *5510.00       | 92.1 AV                       |                   |                | 3.13 H                   | 165                        | 87.9                   | 4.2                            |
| 5                                                   | 11020.00       | 47.9 PK                       | 74.0              | -26.1          | 1.85 H                   | 128                        | 33.9                   | 14.0                           |
| 6                                                   | 11020.00       | 34.9 AV                       | 54.0              | -19.1          | 1.85 H                   | 128                        | 20.9                   | 14.0                           |
| 7                                                   | #16530.00      | 55.9 PK                       | 74.0              | -18.1          | 1.83 H                   | 137                        | 41.0                   | 14.9                           |
| 8                                                   | #16530.00      | 44.0 AV                       | 54.0              | -10.0          | 1.83 H                   | 137                        | 29.1                   | 14.9                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5470.00       | 67.9 PK                       | 74.0              | -6.1           | 2.11 V                   | 97                         | 63.7                   | 4.2                            |
| 2                                                   | #5470.00       | 53.6 AV                       | 54.0              | -0.4           | 2.11 V                   | 97                         | 49.4                   | 4.2                            |
| 3                                                   | *5510.00       | 104.4 PK                      |                   |                | 2.11 V                   | 97                         | 100.2                  | 4.2                            |
| 4                                                   | *5510.00       | 95.3 AV                       |                   |                | 2.11 V                   | 97                         | 91.1                   | 4.2                            |
| 5                                                   | 11020.00       | 49.2 PK                       | 74.0              | -24.8          | 1.24 V                   | 309                        | 35.2                   | 14.0                           |
| 6                                                   | 11020.00       | 37.8 AV                       | 54.0              | -16.2          | 1.24 V                   | 309                        | 23.8                   | 14.0                           |
| 7                                                   | #16530.00      | 54.8 PK                       | 74.0              | -19.2          | 1.88 V                   | 180                        | 39.9                   | 14.9                           |
| 8                                                   | #16530.00      | 42.9 AV                       | 54.0              | -11.1          | 1.88 V                   | 180                        | 28.0                   | 14.9                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 110 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5550.00       | 105.6 PK                      |                   |                | 3.17 H                   | 163                        | 101.4                  | 4.2                            |
| 2                                                   | *5550.00       | 95.5 AV                       |                   |                | 3.17 H                   | 163                        | 91.3                   | 4.2                            |
| 3                                                   | 11100.00       | 48.7 PK                       | 74.0              | -25.3          | 1.84 H                   | 129                        | 34.9                   | 13.8                           |
| 4                                                   | 11100.00       | 35.6 AV                       | 54.0              | -18.4          | 1.84 H                   | 129                        | 21.8                   | 13.8                           |
| 5                                                   | #16650.00      | 55.2 PK                       | 74.0              | -18.8          | 1.84 H                   | 130                        | 39.6                   | 15.6                           |
| 6                                                   | #16650.00      | 43.6 AV                       | 54.0              | -10.4          | 1.84 H                   | 130                        | 28.0                   | 15.6                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5550.00       | 108.6 PK                      |                   |                | 2.14 V                   | 93                         | 104.4                  | 4.2                            |
| 2                                                   | *5550.00       | 99.3 AV                       |                   |                | 2.14 V                   | 93                         | 95.1                   | 4.2                            |
| 3                                                   | 11100.00       | 49.4 PK                       | 74.0              | -24.6          | 1.28 V                   | 318                        | 35.6                   | 13.8                           |
| 4                                                   | 11100.00       | 38.0 AV                       | 54.0              | -16.0          | 1.28 V                   | 318                        | 24.2                   | 13.8                           |
| 5                                                   | #16650.00      | 55.0 PK                       | 74.0              | -19.0          | 1.84 V                   | 155                        | 39.4                   | 15.6                           |
| 6                                                   | #16650.00      | 42.8 AV                       | 54.0              | -11.2          | 1.84 V                   | 155                        | 27.2                   | 15.6                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 134 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5670.00       | 104.1 PK                      |                   |                | 3.10 H                   | 140                        | 99.8                   | 4.3                            |
| 2                                                   | *5670.00       | 94.4 AV                       |                   |                | 3.10 H                   | 140                        | 90.1                   | 4.3                            |
| 3                                                   | #5725.00       | 65.8 PK                       | 74.0              | -8.2           | 3.10 H                   | 140                        | 61.4                   | 4.4                            |
| 4                                                   | #5725.00       | 49.5 AV                       | 54.0              | -4.5           | 3.10 H                   | 140                        | 45.1                   | 4.4                            |
| 5                                                   | 11340.00       | 48.9 PK                       | 74.0              | -25.1          | 1.79 H                   | 138                        | 35.3                   | 13.6                           |
| 6                                                   | 11340.00       | 35.6 AV                       | 54.0              | -18.4          | 1.79 H                   | 138                        | 22.0                   | 13.6                           |
| 7                                                   | #17010.00      | 54.8 PK                       | 74.0              | -19.2          | 1.79 H                   | 114                        | 37.7                   | 17.1                           |
| 8                                                   | #17010.00      | 43.3 AV                       | 54.0              | -10.7          | 1.79 H                   | 114                        | 26.2                   | 17.1                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5670.00       | 105.8 PK                      |                   |                | 2.15 V                   | 94                         | 101.5                  | 4.3                            |
| 2                                                   | *5670.00       | 96.6 AV                       |                   |                | 2.15 V                   | 94                         | 92.3                   | 4.3                            |
| 3                                                   | #5725.00       | 71.0 PK                       | 74.0              | -3.0           | 2.15 V                   | 94                         | 66.6                   | 4.4                            |
| 4                                                   | #5725.00       | 53.3 AV                       | 54.0              | -0.7           | 2.15 V                   | 94                         | 48.9                   | 4.4                            |
| 5                                                   | 11340.00       | 48.5 PK                       | 74.0              | -25.5          | 1.31 V                   | 311                        | 34.9                   | 13.6                           |
| 6                                                   | 11340.00       | 37.3 AV                       | 54.0              | -16.7          | 1.31 V                   | 311                        | 23.7                   | 13.6                           |
| 7                                                   | #17010.00      | 55.0 PK                       | 74.0              | -19.0          | 1.82 V                   | 169                        | 37.9                   | 17.1                           |
| 8                                                   | #17010.00      | 43.0 AV                       | 54.0              | -11.0          | 1.82 V                   | 169                        | 25.9                   | 17.1                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 151 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5646.60       | 55.3 PK                       | 68.2              | -12.9          | 3.08 H                   | 153                        | 50.9                   | 4.4                            |
| 2                                                   | *5755.00       | 107.5 PK                      |                   |                | 3.08 H                   | 153                        | 103.1                  | 4.4                            |
| 3                                                   | *5755.00       | 99.7 AV                       |                   |                | 3.08 H                   | 153                        | 95.3                   | 4.4                            |
| 4                                                   | #6008.07       | 50.6 PK                       | 68.2              | -17.6          | 3.08 H                   | 153                        | 45.8                   | 4.8                            |
| 5                                                   | 11510.00       | 49.2 PK                       | 74.0              | -24.8          | 1.77 H                   | 133                        | 35.6                   | 13.6                           |
| 6                                                   | 11510.00       | 37.8 AV                       | 54.0              | -16.2          | 1.77 H                   | 133                        | 24.2                   | 13.6                           |
| 7                                                   | #17265.00      | 55.8 PK                       | 74.0              | -18.2          | 1.78 H                   | 123                        | 38.2                   | 17.6                           |
| 8                                                   | #17265.00      | 43.6 AV                       | 54.0              | -10.4          | 1.78 H                   | 123                        | 26.0                   | 17.6                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5644.63       | 60.9 PK                       | 68.2              | -7.3           | 1.98 V                   | 98                         | 56.5                   | 4.4                            |
| 2                                                   | *5755.00       | 109.2 PK                      |                   |                | 1.98 V                   | 98                         | 104.8                  | 4.4                            |
| 3                                                   | *5755.00       | 101.0 AV                      |                   |                | 1.98 V                   | 98                         | 96.6                   | 4.4                            |
| 4                                                   | #5951.49       | 58.6 PK                       | 68.2              | -9.6           | 1.98 V                   | 98                         | 53.9                   | 4.7                            |
| 5                                                   | 11510.00       | 48.6 PK                       | 74.0              | -25.4          | 1.32 V                   | 293                        | 35.0                   | 13.6                           |
| 6                                                   | 11510.00       | 37.4 AV                       | 54.0              | -16.6          | 1.32 V                   | 293                        | 23.8                   | 13.6                           |
| 7                                                   | #17265.00      | 55.7 PK                       | 74.0              | -18.3          | 1.86 V                   | 156                        | 38.1                   | 17.6                           |
| 8                                                   | #17265.00      | 43.4 AV                       | 54.0              | -10.6          | 1.86 V                   | 156                        | 25.8                   | 17.6                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 159 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5646.72       | 52.1 PK                       | 68.2              | -16.1          | 3.07 H                   | 148                        | 47.7                   | 4.4                            |
| 2                                                   | *5795.00       | 107.9 PK                      |                   |                | 3.07 H                   | 148                        | 103.5                  | 4.4                            |
| 3                                                   | *5795.00       | 100.1 AV                      |                   |                | 3.07 H                   | 148                        | 95.7                   | 4.4                            |
| 4                                                   | #5995.19       | 53.1 PK                       | 68.2              | -15.1          | 3.07 H                   | 148                        | 48.4                   | 4.7                            |
| 5                                                   | 11590.00       | 49.2 PK                       | 74.0              | -24.8          | 1.73 H                   | 121                        | 35.7                   | 13.5                           |
| 6                                                   | 11590.00       | 38.1 AV                       | 54.0              | -15.9          | 1.73 H                   | 121                        | 24.6                   | 13.5                           |
| 7                                                   | #17385.00      | 56.1 PK                       | 74.0              | -17.9          | 1.78 H                   | 113                        | 37.8                   | 18.3                           |
| 8                                                   | #17385.00      | 43.9 AV                       | 54.0              | -10.1          | 1.78 H                   | 113                        | 25.6                   | 18.3                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5649.06       | 59.5 PK                       | 68.2              | -8.7           | 1.99 V                   | 94                         | 55.1                   | 4.4                            |
| 2                                                   | *5795.00       | 110.2 PK                      |                   |                | 1.99 V                   | 94                         | 105.8                  | 4.4                            |
| 3                                                   | *5795.00       | 101.8 AV                      |                   |                | 1.99 V                   | 94                         | 97.4                   | 4.4                            |
| 4                                                   | #5931.54       | 58.7 PK                       | 68.2              | -9.5           | 1.99 V                   | 94                         | 54.0                   | 4.7                            |
| 5                                                   | 11590.00       | 49.5 PK                       | 74.0              | -24.5          | 1.26 V                   | 294                        | 36.0                   | 13.5                           |
| 6                                                   | 11590.00       | 37.9 AV                       | 54.0              | -16.1          | 1.26 V                   | 294                        | 24.4                   | 13.5                           |
| 7                                                   | #17385.00      | 55.2 PK                       | 74.0              | -18.8          | 1.80 V                   | 179                        | 36.9                   | 18.3                           |
| 8                                                   | #17385.00      | 43.0 AV                       | 54.0              | -11.0          | 1.80 V                   | 179                        | 24.7                   | 18.3                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

## 802.11ac (VHT80)

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| CHANNEL         | TX Channel 42 | DETECTOR<br>FUNCTION | Peak (PK)    |
| FREQUENCY RANGE | 1GHz ~ 40GHz  |                      | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 64.8 PK                       | 74.0              | -9.2           | 3.09 H                   | 142                        | 61.1                   | 3.7                            |
| 2                                                   | 5150.00        | 50.7 AV                       | 54.0              | -3.3           | 3.09 H                   | 142                        | 47.0                   | 3.7                            |
| 3                                                   | *5210.00       | 101.7 PK                      |                   |                | 3.11 H                   | 151                        | 98.0                   | 3.7                            |
| 4                                                   | *5210.00       | 90.3 AV                       |                   |                | 3.11 H                   | 151                        | 86.6                   | 3.7                            |
| 5                                                   | 5350.00        | 53.6 PK                       | 74.0              | -20.4          | 3.11 H                   | 151                        | 49.5                   | 4.1                            |
| 6                                                   | 5350.00        | 40.1 AV                       | 54.0              | -13.9          | 3.11 H                   | 151                        | 36.0                   | 4.1                            |
| 7                                                   | #10420.00      | 48.1 PK                       | 74.0              | -25.9          | 1.65 H                   | 127                        | 35.0                   | 13.1                           |
| 8                                                   | #10420.00      | 34.7 AV                       | 54.0              | -19.3          | 1.65 H                   | 127                        | 21.6                   | 13.1                           |
| 9                                                   | 15630.00       | 55.4 PK                       | 74.0              | -18.6          | 1.77 H                   | 197                        | 41.8                   | 13.6                           |
| 10                                                  | 15630.00       | 43.0 AV                       | 54.0              | -11.0          | 1.77 H                   | 197                        | 29.4                   | 13.6                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 68.1 PK                       | 74.0              | -5.9           | 2.01 V                   | 94                         | 64.4                   | 3.7                            |
| 2                                                   | 5150.00        | 53.8 AV                       | 54.0              | -0.2           | 2.01 V                   | 94                         | 50.1                   | 3.7                            |
| 3                                                   | *5210.00       | 102.0 PK                      |                   |                | 2.01 V                   | 94                         | 98.3                   | 3.7                            |
| 4                                                   | *5210.00       | 92.8 AV                       |                   |                | 2.01 V                   | 94                         | 89.1                   | 3.7                            |
| 5                                                   | 5350.00        | 54.0 PK                       | 74.0              | -20.0          | 2.01 V                   | 94                         | 49.9                   | 4.1                            |
| 6                                                   | 5350.00        | 40.4 AV                       | 54.0              | -13.6          | 2.01 V                   | 94                         | 36.3                   | 4.1                            |
| 7                                                   | #10420.00      | 48.8 PK                       | 74.0              | -25.2          | 1.24 V                   | 290                        | 35.7                   | 13.1                           |
| 8                                                   | #10420.00      | 37.1 AV                       | 54.0              | -16.9          | 1.24 V                   | 290                        | 24.0                   | 13.1                           |
| 9                                                   | 15630.00       | 55.2 PK                       | 74.0              | -18.8          | 1.87 V                   | 182                        | 41.6                   | 13.6                           |
| 10                                                  | 15630.00       | 43.3 AV                       | 54.0              | -10.7          | 1.87 V                   | 182                        | 29.7                   | 13.6                           |

## REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 58 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz  |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 5150.00        | 52.6 PK                       | 74.0              | -21.4          | 3.10 H                   | 149                        | 48.9                   | 3.7                            |
| 2                                                   | 5150.00        | 39.5 AV                       | 54.0              | -14.5          | 3.10 H                   | 149                        | 35.8                   | 3.7                            |
| 3                                                   | *5290.00       | 102.0 PK                      |                   |                | 3.10 H                   | 149                        | 97.9                   | 4.1                            |
| 4                                                   | *5290.00       | 90.7 AV                       |                   |                | 3.10 H                   | 149                        | 86.6                   | 4.1                            |
| 5                                                   | 5350.00        | 64.4 PK                       | 74.0              | -9.6           | 3.10 H                   | 149                        | 60.3                   | 4.1                            |
| 6                                                   | 5350.00        | 50.4 AV                       | 54.0              | -3.6           | 3.10 H                   | 149                        | 46.3                   | 4.1                            |
| 7                                                   | #10580.00      | 48.3 PK                       | 74.0              | -25.7          | 1.64 H                   | 122                        | 34.9                   | 13.4                           |
| 8                                                   | #10580.00      | 34.7 AV                       | 54.0              | -19.3          | 1.64 H                   | 122                        | 21.3                   | 13.4                           |
| 9                                                   | 15870.00       | 55.6 PK                       | 74.0              | -18.4          | 1.82 H                   | 204                        | 42.6                   | 13.0                           |
| 10                                                  | 15870.00       | 43.3 AV                       | 54.0              | -10.7          | 1.82 H                   | 204                        | 30.3                   | 13.0                           |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|---------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                               | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                 | 5150.00        | 52.5 PK                       | 74.0              | -21.5          | 2.08 V                   | 95                         | 48.8                   | 3.7                            |
| 2                                                 | 5150.00        | 39.7 AV                       | 54.0              | -14.3          | 2.08 V                   | 95                         | 36.0                   | 3.7                            |
| 3                                                 | *5290.00       | 101.2 PK                      |                   |                | 2.08 V                   | 95                         | 97.1                   | 4.1                            |
| 4                                                 | *5290.00       | 91.4 AV                       |                   |                | 2.08 V                   | 95                         | 87.3                   | 4.1                            |
| 5                                                 | 5350.00        | 67.5 PK                       | 74.0              | -6.5           | 2.08 V                   | 95                         | 63.4                   | 4.1                            |
| 6                                                 | 5350.00        | 53.7 AV                       | 54.0              | -0.3           | 2.08 V                   | 95                         | 49.6                   | 4.1                            |
| 7                                                 | #10580.00      | 48.6 PK                       | 74.0              | -25.4          | 1.29 V                   | 319                        | 35.2                   | 13.4                           |
| 8                                                 | #10580.00      | 37.4 AV                       | 54.0              | -16.6          | 1.29 V                   | 319                        | 24.0                   | 13.4                           |
| 9                                                 | 15870.00       | 55.6 PK                       | 74.0              | -18.4          | 1.83 V                   | 155                        | 42.6                   | 13.0                           |
| 10                                                | 15870.00       | 43.2 AV                       | 54.0              | -10.8          | 1.83 V                   | 155                        | 30.2                   | 13.0                           |

#### REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 106 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5470.00       | 63.9 PK                       | 74.0              | -10.1          | 3.16 H                   | 163                        | 59.7                   | 4.2                            |
| 2                                                   | #5470.00       | 49.9 AV                       | 54.0              | -4.1           | 3.16 H                   | 163                        | 45.7                   | 4.2                            |
| 3                                                   | *5530.00       | 102.2 PK                      |                   |                | 3.16 H                   | 163                        | 98.0                   | 4.2                            |
| 4                                                   | *5530.00       | 91.2 AV                       |                   |                | 3.16 H                   | 163                        | 87.0                   | 4.2                            |
| 5                                                   | #5725.00       | 52.7 PK                       | 74.0              | -21.3          | 3.16 H                   | 163                        | 48.3                   | 4.4                            |
| 6                                                   | #5725.00       | 39.5 AV                       | 54.0              | -14.5          | 3.16 H                   | 163                        | 35.1                   | 4.4                            |
| 7                                                   | 11060.00       | 48.7 PK                       | 74.0              | -25.3          | 1.63 H                   | 133                        | 34.8                   | 13.9                           |
| 8                                                   | 11060.00       | 35.0 AV                       | 54.0              | -19.0          | 1.63 H                   | 133                        | 21.1                   | 13.9                           |
| 9                                                   | #16590.00      | 55.8 PK                       | 74.0              | -18.2          | 1.80 H                   | 197                        | 40.2                   | 15.6                           |
| 10                                                  | #16590.00      | 43.7 AV                       | 54.0              | -10.3          | 1.80 H                   | 197                        | 28.1                   | 15.6                           |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|---------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                               | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                 | #5470.00       | 68.2 PK                       | 74.0              | -5.8           | 2.14 V                   | 93                         | 64.0                   | 4.2                            |
| 2                                                 | #5470.00       | 53.6 AV                       | 54.0              | -0.4           | 2.14 V                   | 93                         | 49.4                   | 4.2                            |
| 3                                                 | *5530.00       | 102.0 PK                      |                   |                | 2.14 V                   | 93                         | 97.8                   | 4.2                            |
| 4                                                 | *5530.00       | 92.0 AV                       |                   |                | 2.14 V                   | 93                         | 87.8                   | 4.2                            |
| 5                                                 | #5725.00       | 52.4 PK                       | 74.0              | -21.6          | 2.14 V                   | 93                         | 48.0                   | 4.4                            |
| 6                                                 | #5725.00       | 39.7 AV                       | 54.0              | -14.3          | 2.14 V                   | 93                         | 35.3                   | 4.4                            |
| 7                                                 | 11060.00       | 49.3 PK                       | 74.0              | -24.7          | 1.31 V                   | 306                        | 35.4                   | 13.9                           |
| 8                                                 | 11060.00       | 37.8 AV                       | 54.0              | -16.2          | 1.31 V                   | 306                        | 23.9                   | 13.9                           |
| 9                                                 | #16590.00      | 55.6 PK                       | 74.0              | -18.4          | 1.88 V                   | 168                        | 40.0                   | 15.6                           |
| 10                                                | #16590.00      | 43.6 AV                       | 54.0              | -10.4          | 1.88 V                   | 168                        | 28.0                   | 15.6                           |

#### REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 122 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5610.00       | 100.2 PK                      |                   |                | 3.12 H                   | 161                        | 95.8                   | 4.4                            |
| 2                                                   | *5610.00       | 92.9 AV                       |                   |                | 3.12 H                   | 161                        | 88.5                   | 4.4                            |
| 3                                                   | #5725.00       | 58.9 PK                       | 74.0              | -15.1          | 3.12 H                   | 161                        | 54.5                   | 4.4                            |
| 4                                                   | #5725.00       | 44.7 AV                       | 54.0              | -9.3           | 3.12 H                   | 161                        | 40.3                   | 4.4                            |
| 5                                                   | 11220.00       | 48.5 PK                       | 74.0              | -25.5          | 1.57 H                   | 128                        | 34.8                   | 13.7                           |
| 6                                                   | 11220.00       | 35.0 AV                       | 54.0              | -19.0          | 1.57 H                   | 128                        | 21.3                   | 13.7                           |
| 7                                                   | #16830.00      | 55.5 PK                       | 74.0              | -18.5          | 1.80 H                   | 192                        | 39.6                   | 15.9                           |
| 8                                                   | #16830.00      | 43.3 AV                       | 54.0              | -10.7          | 1.80 H                   | 192                        | 27.4                   | 15.9                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *5610.00       | 106.3 PK                      |                   |                | 2.12 V                   | 92                         | 101.9                  | 4.4                            |
| 2                                                   | *5610.00       | 96.0 AV                       |                   |                | 2.12 V                   | 92                         | 91.6                   | 4.4                            |
| 3                                                   | #5725.00       | 69.8 PK                       | 74.0              | -4.2           | 2.12 V                   | 92                         | 65.4                   | 4.4                            |
| 4                                                   | #5725.00       | 53.7 AV                       | 54.0              | -0.3           | 2.12 V                   | 92                         | 49.3                   | 4.4                            |
| 5                                                   | 11220.00       | 48.9 PK                       | 74.0              | -25.1          | 1.29 V                   | 315                        | 35.2                   | 13.7                           |
| 6                                                   | 11220.00       | 37.7 AV                       | 54.0              | -16.3          | 1.29 V                   | 315                        | 24.0                   | 13.7                           |
| 7                                                   | #16830.00      | 54.7 PK                       | 74.0              | -19.3          | 1.89 V                   | 157                        | 38.8                   | 15.9                           |
| 8                                                   | #16830.00      | 42.9 AV                       | 54.0              | -11.1          | 1.89 V                   | 157                        | 27.0                   | 15.9                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |                |                              |              |
|------------------------|----------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 155 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 40GHz   |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5641.72       | 61.9 PK                       | 68.2              | -6.3           | 3.10 H                   | 150                        | 57.5                   | 4.4                            |
| 2                                                   | *5775.00       | 102.6 PK                      |                   |                | 3.10 H                   | 150                        | 98.2                   | 4.4                            |
| 3                                                   | *5775.00       | 95.5 AV                       |                   |                | 3.10 H                   | 150                        | 91.1                   | 4.4                            |
| 4                                                   | #5930.58       | 62.3 PK                       | 68.2              | -5.9           | 3.10 H                   | 150                        | 57.6                   | 4.7                            |
| 5                                                   | 11550.00       | 48.4 PK                       | 74.0              | -25.6          | 1.57 H                   | 142                        | 34.9                   | 13.5                           |
| 6                                                   | 11550.00       | 34.6 AV                       | 54.0              | -19.4          | 1.57 H                   | 142                        | 21.1                   | 13.5                           |
| 7                                                   | #17325.00      | 55.9 PK                       | 74.0              | -18.1          | 1.85 H                   | 184                        | 38.1                   | 17.8                           |
| 8                                                   | #17325.00      | 43.7 AV                       | 54.0              | -10.3          | 1.85 H                   | 184                        | 25.9                   | 17.8                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | #5641.81       | 66.9 PK                       | 68.2              | -1.3           | 2.03 V                   | 92                         | 62.5                   | 4.4                            |
| 2                                                   | *5775.00       | 107.7 PK                      |                   |                | 2.03 V                   | 92                         | 103.3                  | 4.4                            |
| 3                                                   | *5775.00       | 98.8 AV                       |                   |                | 2.03 V                   | 92                         | 94.4                   | 4.4                            |
| 4                                                   | #5927.34       | 65.7 PK                       | 68.2              | -2.5           | 2.03 V                   | 92                         | 61.0                   | 4.7                            |
| 5                                                   | 11550.00       | 48.5 PK                       | 74.0              | -25.5          | 1.33 V                   | 309                        | 35.0                   | 13.5                           |
| 6                                                   | 11550.00       | 37.3 AV                       | 54.0              | -16.7          | 1.33 V                   | 309                        | 23.8                   | 13.5                           |
| 7                                                   | #17325.00      | 54.9 PK                       | 74.0              | -19.1          | 1.83 V                   | 155                        | 37.1                   | 17.8                           |
| 8                                                   | #17325.00      | 42.8 AV                       | 54.0              | -11.2          | 1.83 V                   | 155                        | 25.0                   | 17.8                           |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

# Below 1GHz Data:

## 802.11a

|                        |                |                              |                 |
|------------------------|----------------|------------------------------|-----------------|
| <b>CHANNEL</b>         | TX Channel 149 | <b>DETECTOR<br/>FUNCTION</b> | Quasi-Peak (QP) |
| <b>FREQUENCY RANGE</b> | 9kHz ~ 1GHz    |                              |                 |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 51.58          | 21.7 QP                       | 40.0              | -18.3          | 1.50 H                   | 262                        | 30.0                   | -8.3                           |
| 2                                                   | 159.33         | 21.6 QP                       | 43.5              | -21.9          | 2.00 H                   | 300                        | 29.8                   | -8.2                           |
| 3                                                   | 196.11         | 21.2 QP                       | 43.5              | -22.3          | 1.00 H                   | 70                         | 32.4                   | -11.2                          |
| 4                                                   | 230.33         | 20.6 QP                       | 46.0              | -25.4          | 2.00 H                   | 116                        | 31.2                   | -10.6                          |
| 5                                                   | 559.77         | 27.1 QP                       | 46.0              | -18.9          | 1.00 H                   | 211                        | 29.0                   | -1.9                           |
| 6                                                   | 868.13         | 31.6 QP                       | 46.0              | -14.4          | 1.50 H                   | 192                        | 29.1                   | 2.5                            |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 86.53          | 36.9 QP                       | 40.0              | -3.1           | 1.50 V                   | 276                        | 50.9                   | -14.0                          |
| 2                                                   | 131.56         | 30.8 QP                       | 43.5              | -12.7          | 1.50 V                   | 278                        | 40.3                   | -9.5                           |
| 3                                                   | 247.62         | 26.6 QP                       | 46.0              | -19.4          | 1.00 V                   | 360                        | 36.3                   | -9.7                           |
| 4                                                   | 346.32         | 28.8 QP                       | 46.0              | -17.2          | 1.00 V                   | 360                        | 35.3                   | -6.5                           |
| 5                                                   | 787.69         | 32.3 QP                       | 46.0              | -13.7          | 2.00 V                   | 358                        | 30.3                   | 2.0                            |
| 6                                                   | 909.45         | 33.2 QP                       | 46.0              | -12.8          | 2.00 V                   | 95                         | 29.9                   | 3.3                            |

### REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

## 4.2 Conducted Emission Measurement

### 4.2.1 Limits of Conducted Emission Measurement

| Frequency (MHz) | Conducted Limit (dBuV) |         |
|-----------------|------------------------|---------|
|                 | Quasi-peak             | Average |
| 0.15 - 0.5      | 66 - 56                | 56 - 46 |
| 0.50 - 5.0      | 56                     | 46      |
| 5.0 - 30.0      | 60                     | 50      |

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 4.2.2 Test Instruments

| DESCRIPTION & MANUFACTURER                                         | MODEL NO.               | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|--------------------------------------------------------------------|-------------------------|------------|-----------------|------------------|
| Test Receiver<br>R&S                                               | ESCS 30                 | 847124/029 | Oct. 24, 2016   | Oct. 23, 2017    |
| Line-Impedance<br>Stabilization Network<br>(for EUT)<br>R&S        | ESH3-Z5                 | 848773/004 | Oct. 26, 2016   | Oct. 25, 2017    |
| Line-Impedance<br>Stabilization Network<br>(for Peripheral)<br>R&S | ENV216                  | 100072     | June 03, 2017   | June 02, 2018    |
| 50 ohms Terminator                                                 | N/A                     | EMC-02     | Sep. 22, 2017   | Sep. 21, 2018    |
| RF Cable                                                           | 5D-FB                   | COCCAB-001 | Sep. 29, 2017   | Sep. 28, 2018    |
| 10 dB PAD<br>Mini-Circuits                                         | HAT-10+                 | CONATT-004 | June 18, 2017   | June 17, 2018    |
| Software<br>BVADT                                                  | BVADT_Cond_<br>V7.3.7.4 | NA         | NA              | NA               |

**Note:**

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Shielded Room No. 1.
3. Tested Date: Oct. 04, 2017

#### 4.2.3 Test Procedure

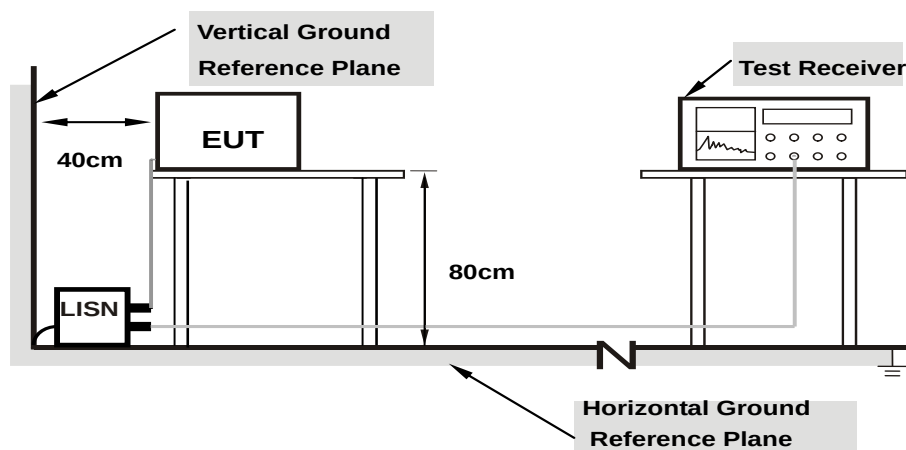
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

**NOTE:** All modes of operation were investigated and the worst-case emissions are reported.

#### 4.2.4 Deviation from Test Standard

No deviation.

#### 4.2.5 Test Setup



**Note: 1.Support units were connected to second LISN.**

For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.2.6 EUT Operating Condition

Same as 4.1.6.

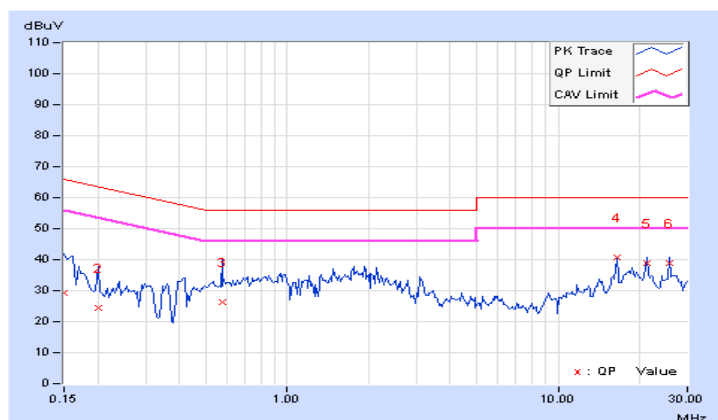
#### 4.2.7 Test Results

| Phase | Line (L) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|----------|-------------------|--------------------------------|
|-------|----------|-------------------|--------------------------------|

| No | Freq.<br>[MHz] | Corr.<br>Factor | Reading Value<br>[dB (uV)] |       | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|-----------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                | (dB)            | Q.P.                       | AV.   | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
|    |                |                 |                            |       |                             |       |                    |       |                |        |
| 1  | 0.15000        | 10.07           | 19.34                      | 10.60 | 29.41                       | 20.67 | 66.00              | 56.00 | -36.59         | -35.33 |
| 2  | 0.20078        | 10.06           | 14.31                      | 6.40  | 24.37                       | 16.46 | 63.58              | 53.58 | -39.21         | -37.12 |
| 3  | 0.57578        | 10.12           | 16.19                      | 11.32 | 26.31                       | 21.44 | 56.00              | 46.00 | -29.69         | -24.56 |
| 4  | 16.46484       | 11.06           | 29.58                      | 29.31 | 40.64                       | 40.37 | 60.00              | 50.00 | -19.36         | -9.63  |
| 5  | 21.16797       | 11.30           | 27.64                      | 26.61 | 38.94                       | 37.91 | 60.00              | 50.00 | -21.06         | -12.09 |
| 6  | 25.87500       | 11.33           | 27.59                      | 27.58 | 38.92                       | 38.91 | 60.00              | 50.00 | -21.08         | -11.09 |

#### REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

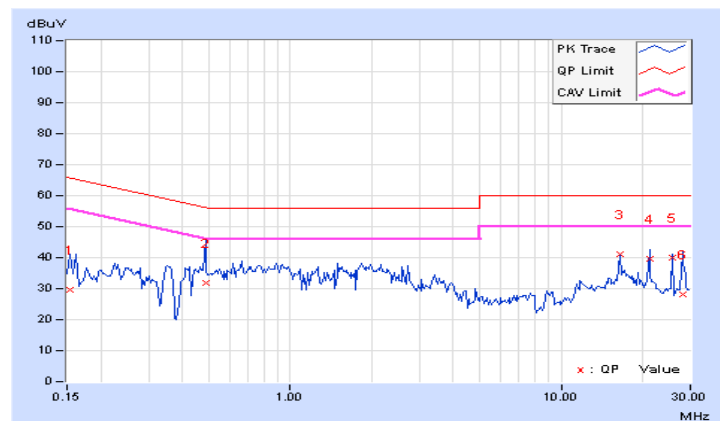


|       |             |                   |                                |
|-------|-------------|-------------------|--------------------------------|
| Phase | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|-------------|-------------------|--------------------------------|

| No       | Freq.           | Corr.        | Reading Value |              | Emission Level |              | Limit        |              | Margin        |              |
|----------|-----------------|--------------|---------------|--------------|----------------|--------------|--------------|--------------|---------------|--------------|
|          | [MHz]           | Factor       | [dB (uV)]     |              | [dB (uV)]      |              | [dB (uV)]    |              | (dB)          |              |
|          |                 | (dB)         | Q.P.          | AV.          | Q.P.           | AV.          | Q.P.         | AV.          | Q.P.          | AV.          |
| 1        | 0.15391         | 10.06        | 19.46         | 16.26        | 29.52          | 26.32        | 65.79        | 55.79        | -36.27        | -29.47       |
| 2        | 0.48594         | 10.10        | 21.77         | 13.22        | 31.87          | 23.32        | 56.24        | 46.24        | -24.37        | -22.92       |
| <b>3</b> | <b>16.46484</b> | <b>10.85</b> | <b>30.31</b>  | <b>30.20</b> | <b>41.16</b>   | <b>41.05</b> | <b>60.00</b> | <b>50.00</b> | <b>-18.84</b> | <b>-8.95</b> |
| 4        | 21.16797        | 11.00        | 28.54         | 27.89        | 39.54          | 38.89        | 60.00        | 50.00        | -20.46        | -11.11       |
| 5        | 25.87109        | 10.97        | 28.87         | 28.52        | 39.84          | 39.49        | 60.00        | 50.00        | -20.16        | -10.51       |
| 6        | 28.07031        | 10.97        | 17.08         | 2.99         | 28.05          | 13.96        | 60.00        | 50.00        | -31.95        | -36.04       |

#### REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



### 4.3 Transmit Power Measurement

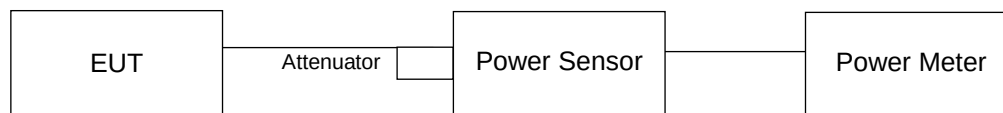
#### 4.3.1 Limits of Transmit Power Measurement

| Operation Band | EUT Category |                                   | Limit                                                                                                                       |
|----------------|--------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| U-NII-1        |              | Outdoor Access Point              | 1 Watt (30 dBm)<br>(Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon) |
|                |              | Fixed point-to-point Access Point | 1 Watt (30 dBm)                                                                                                             |
|                |              | Indoor Access Point               | 1 Watt (30 dBm)                                                                                                             |
|                | √            | Mobile and Portable client device | 250mW (24 dBm)                                                                                                              |
| U-NII-2A       | √            |                                   | 250mW (24 dBm) or 11 dBm+10 log B*                                                                                          |
| U-NII-2C       | √            |                                   | 250mW (24 dBm) or 11 dBm+10 log B*                                                                                          |
| U-NII-3        | √            |                                   | 1 Watt (30 dBm)                                                                                                             |

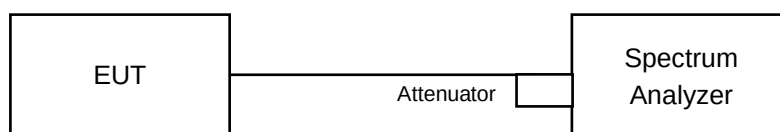
\*B is the 26 dB emission bandwidth in megahertz

#### 4.3.2 Test Setup

##### FOR POWER OUTPUT MEASUREMENT



##### FOR 26dB OCCUPIED BANDWIDTH



#### 4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.3.4 Test Procedure

##### For Average Power Measurement

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

##### FOR 26dB OCCUPIED BANDWIDTH

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

#### 4.3.5 Deviation from Test Standard

No deviation.

#### 4.3.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

#### 4.3.7 Test Result

##### 802.11a

##### Power Output:

| Channel | Channel Frequency (MHz) | Maximum Conducted Power (mW) | Maximum Conducted Power (dBm) | Power Limit (dBm) | Pass/Fail |
|---------|-------------------------|------------------------------|-------------------------------|-------------------|-----------|
| 36      | 5180                    | 76.033                       | 18.81                         | 24.00             | Pass      |
| 40      | 5200                    | 100                          | 20.00                         | 24.00             | Pass      |
| 48      | 5240                    | 80.353                       | 19.05                         | 24.00             | Pass      |
| 52      | 5260                    | 97.949                       | 19.91                         | 24.00             | Pass      |
| 60      | 5300                    | 95.719                       | 19.81                         | 24.00             | Pass      |
| 64      | 5320                    | 72.611                       | 18.61                         | 24.00             | Pass      |
| 100     | 5500                    | 70.958                       | 18.51                         | 23.74             | Pass      |
| 116     | 5580                    | 81.47                        | 19.11                         | 23.74             | Pass      |
| 140     | 5700                    | 41.495                       | 16.18                         | 23.74             | Pass      |
| 149     | 5745                    | 120.504                      | 20.81                         | 28.88             | Pass      |
| 157     | 5785                    | 116.95                       | 20.68                         | 28.88             | Pass      |
| 165     | 5825                    | 91.622                       | 19.62                         | 28.88             | Pass      |

- Note:** 1. UNII-2C: Ant gain = 6.26dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to "Determined Conducted Limit-(6.26-6)"
2. UNII-3: Ant gain = 7.12Bi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to 30-(7.12-6) = 28.88dBm.

## 26dB OCCUPIED BANDWIDTH

| Channel | Frequency (MHz) | 26dBc Bandwidth (MHz) |
|---------|-----------------|-----------------------|
| 52      | 5260            | 35.21                 |
| 60      | 5300            | 35.13                 |
| 64      | 5320            | 34.64                 |
| 100     | 5500            | 31.49                 |
| 116     | 5580            | 34.19                 |
| 140     | 5700            | 26.79                 |

**Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth**

| Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C > |            |             |                                  |
|-----------------------------------------------------|------------|-------------|----------------------------------|
| Channel Number                                      | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 52                                                  | 5260       | 35.21       | 26.46 > 24                       |
| 60                                                  | 5300       | 35.13       | 26.45 > 24                       |
| 64                                                  | 5320       | 34.64       | 26.39 > 24                       |
| 100                                                 | 5500       | 31.49       | 25.98 > 24                       |
| 116                                                 | 5580       | 34.19       | 26.33 > 24                       |
| 140                                                 | 5700       | 26.79       | 25.27 > 24                       |

## 802.11ac (VHT20)

### Power Output:

| Channel | Channel Frequency (MHz) | Maximum Conducted Power (mW) | Maximum Conducted Power (dBm) | Power Limit (dBm) | Pass/Fail |
|---------|-------------------------|------------------------------|-------------------------------|-------------------|-----------|
| 36      | 5180                    | 85.31                        | 19.31                         | 24.00             | Pass      |
| 40      | 5200                    | 102.802                      | 20.12                         | 24.00             | Pass      |
| 48      | 5240                    | 83.56                        | 19.22                         | 24.00             | Pass      |
| 52      | 5260                    | 91.411                       | 19.61                         | 24.00             | Pass      |
| 60      | 5300                    | 82.985                       | 19.19                         | 24.00             | Pass      |
| 64      | 5320                    | 70.632                       | 18.49                         | 24.00             | Pass      |
| 100     | 5500                    | 63.387                       | 18.02                         | 23.74             | Pass      |
| 116     | 5580                    | 79.983                       | 19.03                         | 23.74             | Pass      |
| 140     | 5700                    | 46.452                       | 16.67                         | 23.74             | Pass      |
| 149     | 5745                    | 109.901                      | 20.41                         | 28.88             | Pass      |
| 157     | 5785                    | 88.716                       | 19.48                         | 28.88             | Pass      |
| 165     | 5825                    | 87.498                       | 19.42                         | 28.88             | Pass      |

- Note:** 1. UNII-2C: Ant gain = 6.26dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to "Determined Conducted Limit-(6.26-6)"
2. UNII-3: Ant gain = 7.12Bi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to 30-(7.12-6) = 28.88dBm.

## 26dB OCCUPIED BANDWIDTH

| Channel | Frequency (MHz) | 26dBc Bandwidth (MHz) |
|---------|-----------------|-----------------------|
| 52      | 5260            | 39.70                 |
| 60      | 5300            | 39.90                 |
| 64      | 5320            | 38.29                 |
| 100     | 5500            | 30.31                 |
| 116     | 5580            | 31.94                 |
| 140     | 5700            | 26.73                 |

**Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth**

| Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C > |            |             |                                  |
|-----------------------------------------------------|------------|-------------|----------------------------------|
| Channel Number                                      | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 52                                                  | 5260       | 39.70       | 26.98 > 24                       |
| 60                                                  | 5300       | 39.90       | 27 > 24                          |
| 64                                                  | 5320       | 38.29       | 26.83 > 24                       |
| 100                                                 | 5500       | 30.31       | 25.81 > 24                       |
| 116                                                 | 5580       | 31.94       | 26.04 > 24                       |
| 140                                                 | 5700       | 26.73       | 25.26 > 24                       |

## 802.11ac (VHT40)

### Power Output:

| Channel | Channel Frequency (MHz) | Maximum Conducted Power (mW) | Maximum Conducted Power (dBm) | Power Limit (dBm) | Pass/Fail |
|---------|-------------------------|------------------------------|-------------------------------|-------------------|-----------|
| 38      | 5190                    | 35.156                       | 15.46                         | 24.00             | Pass      |
| 46      | 5230                    | 74.645                       | 18.73                         | 24.00             | Pass      |
| 54      | 5270                    | 85.507                       | 19.32                         | 24.00             | Pass      |
| 62      | 5310                    | 26.73                        | 14.27                         | 24.00             | Pass      |
| 102     | 5510                    | 35.645                       | 15.52                         | 23.74             | Pass      |
| 110     | 5550                    | 92.683                       | 19.67                         | 23.74             | Pass      |
| 134     | 5670                    | 60.117                       | 17.79                         | 23.74             | Pass      |
| 151     | 5755                    | 108.643                      | 20.36                         | 28.88             | Pass      |
| 159     | 5795                    | 112.72                       | 20.52                         | 28.88             | Pass      |

**Note:** 1. UNII-2C: Ant gain = 6.26dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to "Determined Conducted Limit-(6.26-6)"  
 2. UNII-3: Ant gain = 7.12Bi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to 30-(7.12-6) = 28.88dBm.

### 26dB OCCUPIED BANDWIDTH

| Channel | Frequency (MHz) | 26dBc Bandwidth (MHz) |
|---------|-----------------|-----------------------|
| 54      | 5270            | 78.01                 |
| 62      | 5310            | 43.73                 |
| 102     | 5510            | 44.91                 |
| 110     | 5550            | 73.98                 |
| 134     | 5670            | 70.00                 |

**Note:** For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

| Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C > |            |             |                                  |
|-----------------------------------------------------|------------|-------------|----------------------------------|
| Channel Number                                      | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 54                                                  | 5270       | 78.01       | 29.92 > 24                       |
| 62                                                  | 5310       | 43.73       | 27.4 > 24                        |
| 102                                                 | 5510       | 44.91       | 27.52 > 24                       |
| 110                                                 | 5550       | 73.98       | 29.69 > 24                       |
| 134                                                 | 5670       | 70.00       | 29.45 > 24                       |

## 802.11ac (VHT80)

### Power Output:

| Channel | Channel Frequency (MHz) | Maximum Conducted Power (mW) | Maximum Conducted Power (dBm) | Power Limit (dBm) | Pass/Fail |
|---------|-------------------------|------------------------------|-------------------------------|-------------------|-----------|
| 42      | 5210                    | 19.634                       | 12.93                         | 24.00             | Pass      |
| 58      | 5290                    | 15.56                        | 11.92                         | 24.00             | Pass      |
| 106     | 5530                    | 30.061                       | 14.78                         | 23.74             | Pass      |
| 122     | 5610                    | 60.395                       | 17.81                         | 23.74             | Pass      |
| 155     | 5775                    | 76.736                       | 18.85                         | 28.88             | Pass      |

**Note:** 1. UNII-2C: Ant gain = 6.26dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to "Determined Conducted Limit-(6.26-6)"  
 2. UNII-3: Ant gain = 7.12Bi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to 30-(7.12-6) = 28.88dBm.

### 26dB OCCUPIED BANDWIDTH

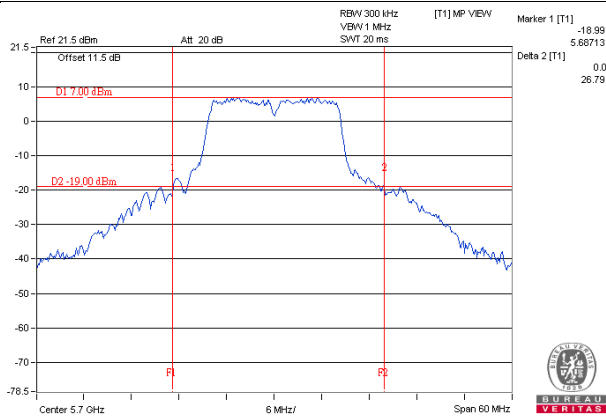
| Channel | Frequency (MHz) | 26dBc Bandwidth (MHz) |
|---------|-----------------|-----------------------|
| 58      | 5290            | 81.74                 |
| 106     | 5530            | 82.15                 |
| 122     | 5610            | 128.29                |

**Note:** For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

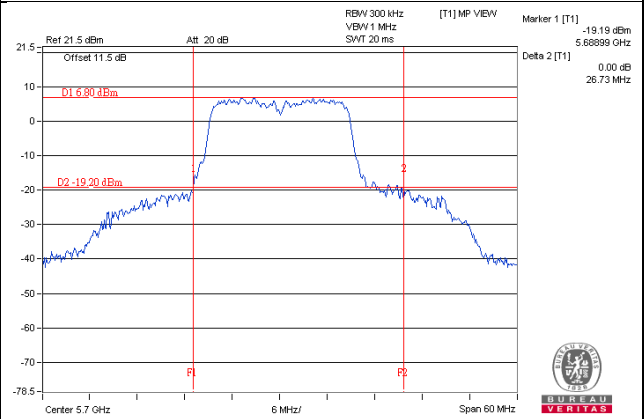
| Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C > |            |             |                                  |
|-----------------------------------------------------|------------|-------------|----------------------------------|
| Channel Number                                      | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 58                                                  | 5290       | 81.74       | 30.12 > 24                       |
| 106                                                 | 5530       | 82.15       | 30.14 > 24                       |
| 122                                                 | 5610       | 128.29      | 32.08 > 24                       |

## Spectrum Plot of Worst Value

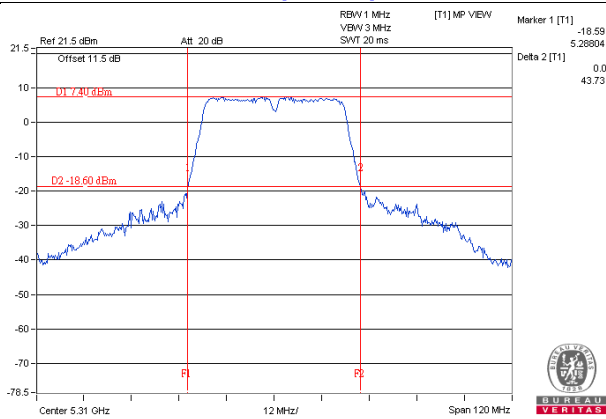
**802.11a / CH140**



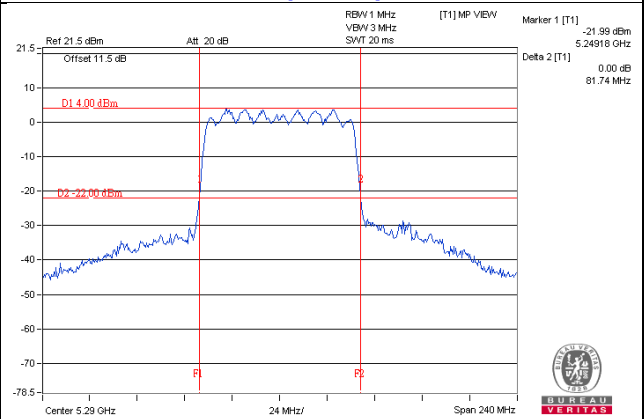
**802.11ac (VHT20) / CH140**



**802.11ac (VHT40) / CH62**

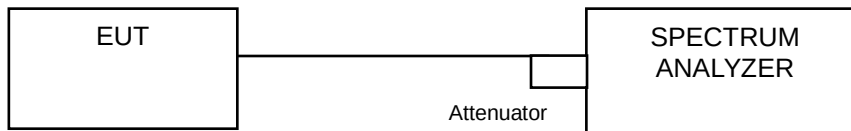


**802.11ac (VHT80) / CH58**



## 4.4 Occupied Bandwidth Measurement

### 4.4.1 Test Setup



### 4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to SAMPLE. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

#### 4.4.4 Test Results

##### 802.11a

| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) |
|---------|-------------------------|--------------------------|
| 36      | 5180                    | 17.28                    |
| 40      | 5200                    | 21.36                    |
| 48      | 5240                    | 18.24                    |
| 52      | 5260                    | 18.36                    |
| 60      | 5300                    | 18.72                    |
| 64      | 5320                    | 17.40                    |
| 100     | 5500                    | 17.04                    |
| 116     | 5580                    | 17.04                    |
| 140     | 5700                    | 16.92                    |
| 149     | 5745                    | 26.52                    |
| 157     | 5785                    | 24.24                    |
| 165     | 5825                    | 22.92                    |

##### 802.11ac (VHT20)

| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) |
|---------|-------------------------|--------------------------|
| 36      | 5180                    | 18.48                    |
| 40      | 5200                    | 21.72                    |
| 48      | 5240                    | 18.48                    |
| 52      | 5260                    | 18.48                    |
| 60      | 5300                    | 18.36                    |
| 64      | 5320                    | 18.00                    |
| 100     | 5500                    | 17.88                    |
| 116     | 5580                    | 17.88                    |
| 140     | 5700                    | 17.88                    |
| 149     | 5745                    | 22.08                    |
| 157     | 5785                    | 25.32                    |
| 165     | 5825                    | 20.76                    |

#### 802.11ac (VHT40)

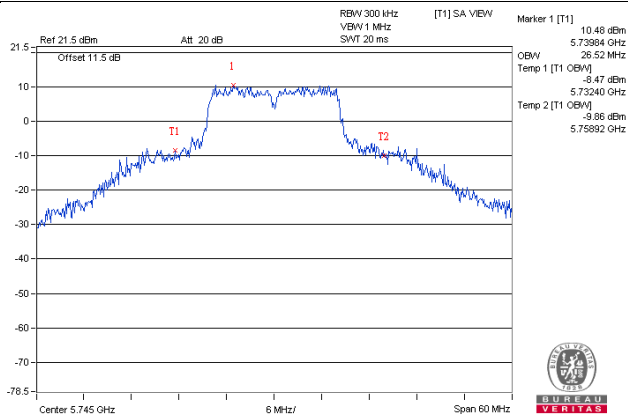
| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) |
|---------|-------------------------|--------------------------|
| 38      | 5190                    | 36.96                    |
| 46      | 5230                    | 36.96                    |
| 54      | 5270                    | 37.44                    |
| 62      | 5310                    | 36.48                    |
| 102     | 5510                    | 36.48                    |
| 110     | 5550                    | 36.96                    |
| 134     | 5670                    | 36.72                    |
| 151     | 5755                    | 48.24                    |
| 159     | 5795                    | 49.20                    |

#### 802.11ac (VHT80)

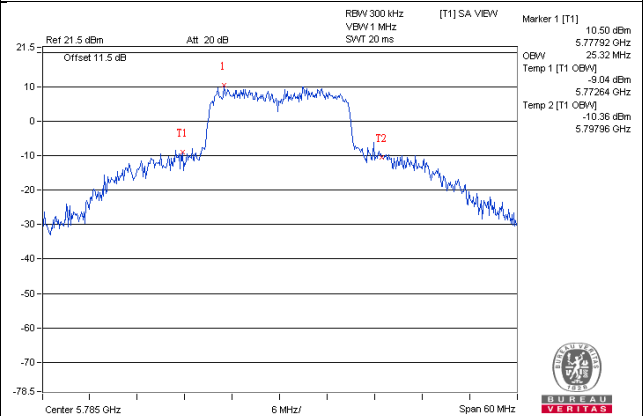
| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) |
|---------|-------------------------|--------------------------|
| 42      | 5210                    | 74.88                    |
| 58      | 5290                    | 75.36                    |
| 106     | 5530                    | 75.36                    |
| 122     | 5610                    | 75.84                    |
| 155     | 5775                    | 77.28                    |

## Spectrum Plot of Worst Value

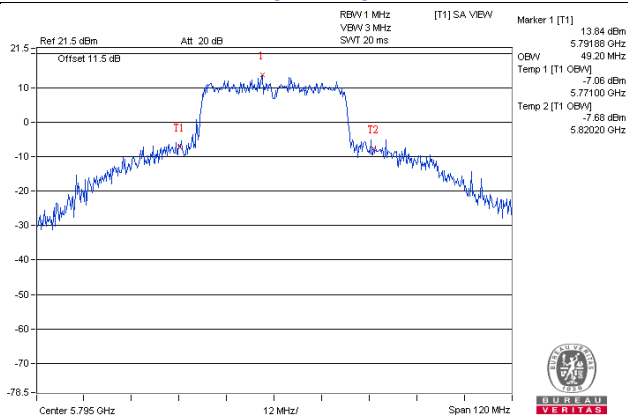
### 802.11a / CH149



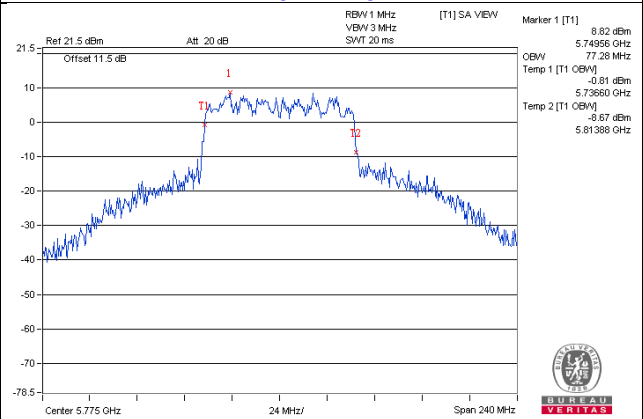
### 802.11ac (VHT20) / CH157



### 802.11ac (VHT40) / CH159

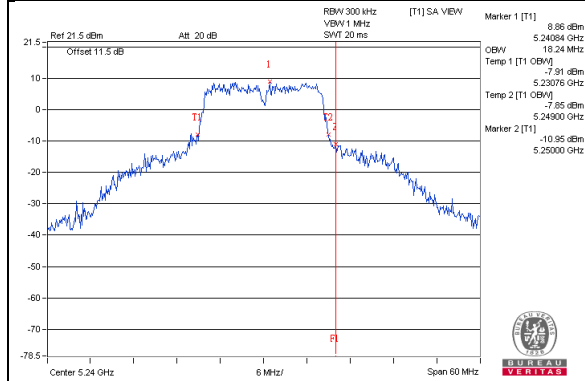


### 802.11ac (VHT80) / CH155

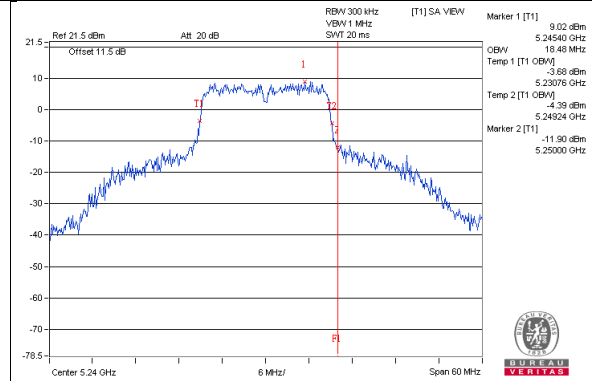


**Spectrum Plot for near by DFS band  
(DFS is required, if 99% OCP straddle into U-NII-2A band)**

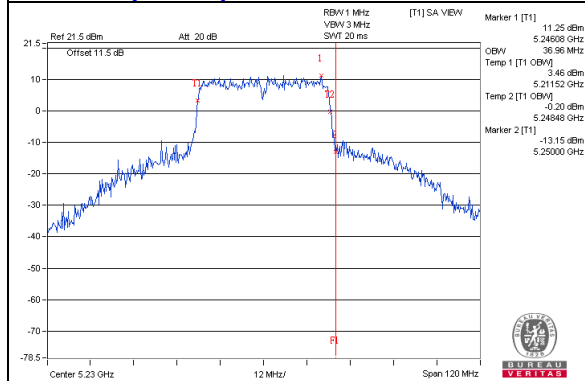
**802.11a / CH48**



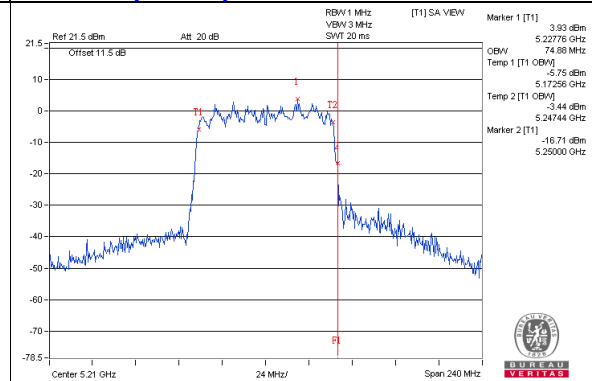
**802.11ac(VHT20) / CH48**



**802.11ac (VHT40) : CH46**

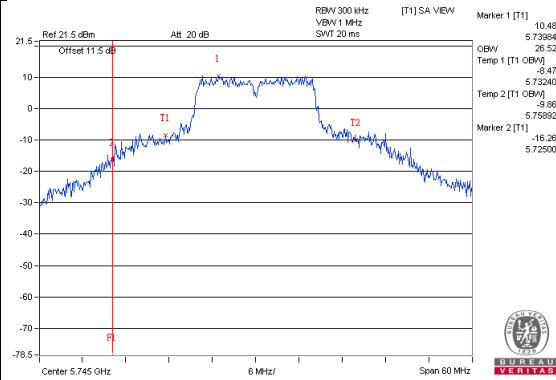


**802.11ac (VHT80) : CH42**

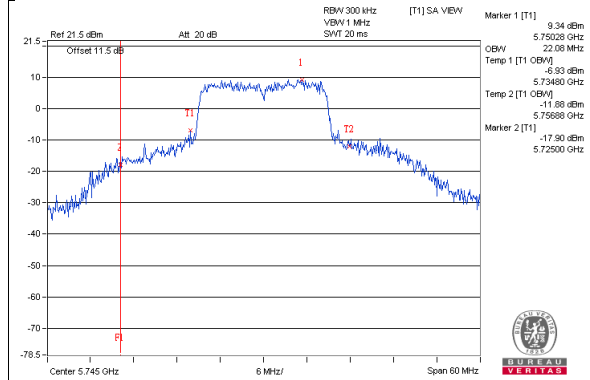


## Spectrum Plot for near by DFS band (DFS is required, if 99% OCP straddle into U-NII-2C band)

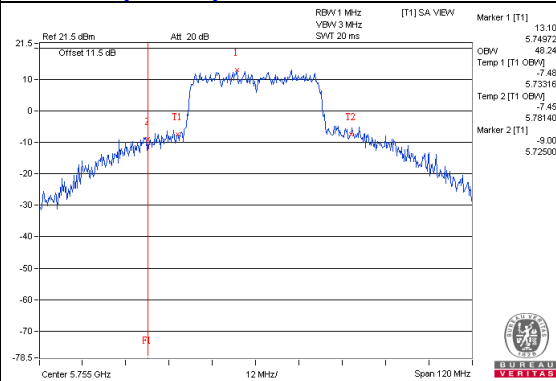
**802.11a : CH149**



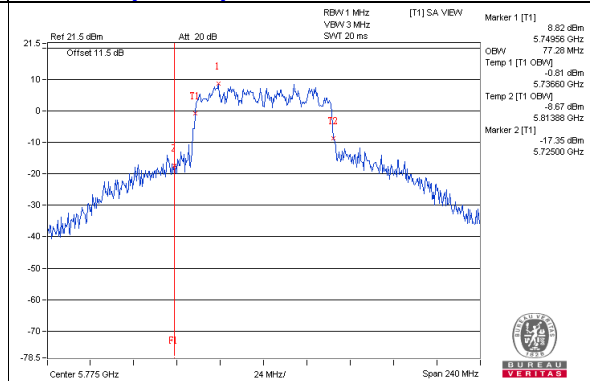
**802.11ac (VHT20) : CH149**



**802.11ac (VHT40) : CH151**



**802.11ac (VHT80) : CH155**

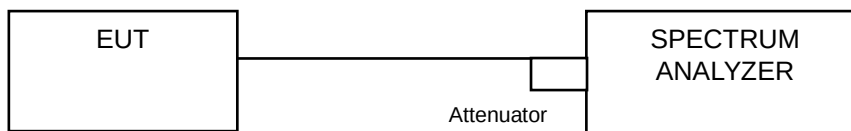


## 4.5 Peak Power Spectral Density Measurement

### 4.5.1 Limits of Peak Power Spectral Density Measurement

| Operation Band | EUT Category |                                   | Limit         |
|----------------|--------------|-----------------------------------|---------------|
| U-NII-1        |              | Outdoor Access Point              | 17dBm/ MHz    |
|                |              | Fixed point-to-point Access Point |               |
|                |              | Indoor Access Point               |               |
|                | √            | Mobile and Portable client device | 11dBm/ MHz    |
| U-NII-2A       | √            |                                   | 11dBm/ MHz    |
| U-NII-2C       | √            |                                   | 11dBm/ MHz    |
| U-NII-3        | √            |                                   | 30dBm/ 500kHz |

### 4.5.2 Test Setup



### 4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.5.4 Test Procedure

#### For U-NII-1, U-NII-2A, U-NII-2C:

Using method SA-1

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
3. Sweep time = auto, trigger set to "free run".
4. Trace average at least 100 traces in power averaging mode.
5. Record the max value

#### For U-NII-3:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
3. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
4. Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where  $BWCF = 10\log(500 \text{ kHz}/300\text{kHz})$
5. Sweep time = auto, trigger set to "free run".
6. Trace average at least 100 traces in power averaging mode.
7. Record the max value

#### 4.5.5 Deviation from Test Standard

No deviation.

#### 4.5.6 EUT Operating Condition

Same as Item 4.3.6.

#### 4.5.7 Test Results

##### 802.11a

| Chan. | Chan. Freq. (MHz) | PSD (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-------|-------------------|---------------|----------------------|-------------|
| 36    | 5180              | 4.63          | 11.00                | Pass        |
| 40    | 5200              | 6.21          | 11.00                | Pass        |
| 48    | 5240              | 5.28          | 11.00                | Pass        |
| 52    | 5260              | 5.52          | 11.00                | Pass        |
| 60    | 5300              | 5.29          | 11.00                | Pass        |
| 64    | 5320              | 4.74          | 11.00                | Pass        |
| 100   | 5500              | 4.86          | 10.74                | Pass        |
| 116   | 5580              | 5.45          | 10.74                | Pass        |
| 140   | 5700              | 2.43          | 10.74                | Pass        |

**Note:** 1. UNII-2C: Ant gain = 6.26dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to  $11 - (6.26 - 6) = 10.74\text{dBm}$

##### 802.11ac (VHT20)

| Chan. | Chan. Freq. (MHz) | PSD (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-------|-------------------|---------------|----------------------|-------------|
| 36    | 5180              | 5.24          | 11.00                | Pass        |
| 40    | 5200              | 6.21          | 11.00                | Pass        |
| 48    | 5240              | 5.06          | 11.00                | Pass        |
| 52    | 5260              | 5.42          | 11.00                | Pass        |
| 60    | 5300              | 4.89          | 11.00                | Pass        |
| 64    | 5320              | 4.29          | 11.00                | Pass        |
| 100   | 5500              | 4.51          | 10.74                | Pass        |
| 116   | 5580              | 4.87          | 10.74                | Pass        |
| 140   | 5700              | 2.19          | 10.74                | Pass        |

**Note:** 1. UNII-2C: Ant gain = 6.26dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to  $11 - (6.26 - 6) = 10.74\text{dBm}$

#### 802.11ac (VHT40)

| Chan. | Chan. Freq.<br>(MHz) | PSD (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-------|----------------------|---------------|----------------------|-------------|
| 38    | 5190                 | -1.72         | 11.00                | Pass        |
| 46    | 5230                 | 1.75          | 11.00                | Pass        |
| 54    | 5270                 | 1.85          | 11.00                | Pass        |
| 62    | 5310                 | -2.93         | 11.00                | Pass        |
| 102   | 5510                 | -1.42         | 10.74                | Pass        |
| 110   | 5550                 | 2.32          | 10.74                | Pass        |
| 134   | 5670                 | 0.29          | 10.74                | Pass        |

**Note:** 1. UNII-2C: Ant gain = 6.26dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to  $11 - (6.26 - 6) = 10.74\text{dBm}$

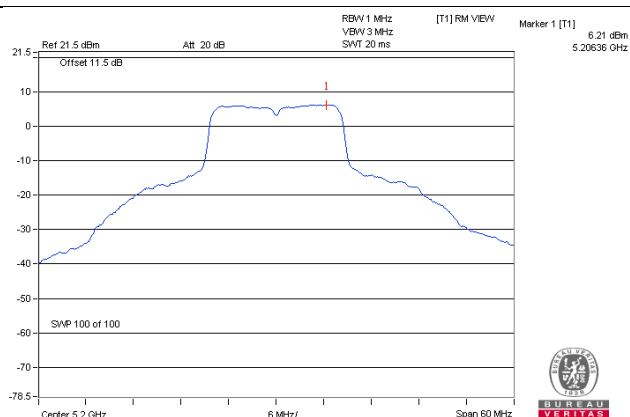
#### 802.11ac (VHT80)

| Chan. | Chan. Freq.<br>(MHz) | PSD (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-------|----------------------|---------------|----------------------|-------------|
| 42    | 5210                 | -5.66         | 11.00                | Pass        |
| 58    | 5290                 | -6.54         | 11.00                | Pass        |
| 106   | 5530                 | -3.20         | 10.74                | Pass        |
| 122   | 5610                 | -0.77         | 10.74                | Pass        |

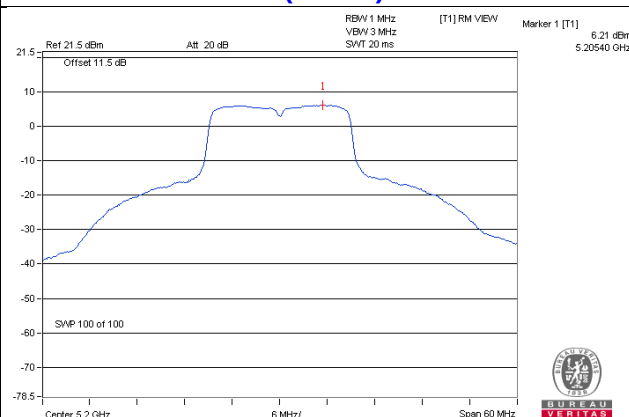
**Note:** 1. UNII-2C: Ant gain = 6.26dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to  $11 - (6.26 - 6) = 10.74\text{dBm}$

## Spectrum Plot of Worst Value

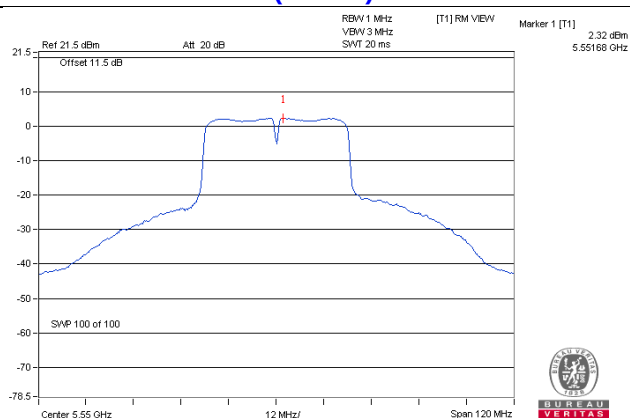
**802.11a / CH40**



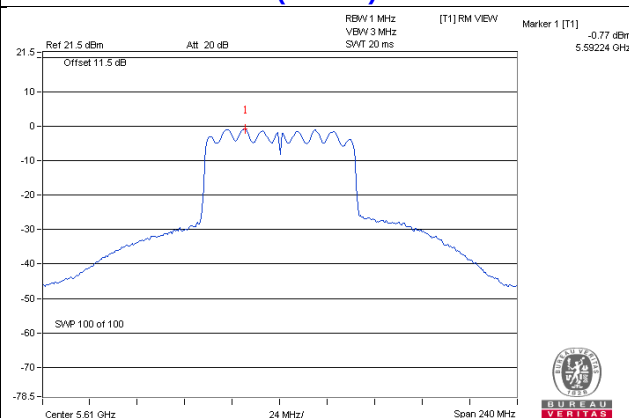
**802.11ac (VHT20) / CH40**



**802.11ac (VHT40) / CH110**



**802.11ac (VHT80) / CH122**



**For U-NII-3:**

**802.11a**

| Chan. | Chan. Freq.<br>(MHz) | PSD<br>(dBm/300kHz) | PSD<br>(dBm/500kHz) | Limit<br>(dBm/500kHz) | Pass<br>/Fail |
|-------|----------------------|---------------------|---------------------|-----------------------|---------------|
| 149   | 5745                 | -1.37               | 0.85                | 28.88                 | Pass          |
| 157   | 5785                 | -1.66               | 0.56                | 28.88                 | Pass          |
| 165   | 5825                 | -2.09               | 0.13                | 28.88                 | Pass          |

**Note:** 1. UNII-3: Ant gain = 7.12Bi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to  $30-(7.12-6) = 28.88\text{dBm}$ .

**802.11ac (VHT20)**

| Chan. | Chan. Freq.<br>(MHz) | PSD<br>(dBm/300kHz) | PSD<br>(dBm/500kHz) | Limit<br>(dBm/500kHz) | Pass<br>/Fail |
|-------|----------------------|---------------------|---------------------|-----------------------|---------------|
| 149   | 5745                 | -2.53               | -0.31               | 28.88                 | Pass          |
| 157   | 5785                 | -2.11               | 0.11                | 28.88                 | Pass          |
| 165   | 5825                 | -2.91               | -0.69               | 28.88                 | Pass          |

**Note:** 1. UNII-3: Ant gain = 7.12Bi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to  $30-(7.12-6) = 28.88\text{dBm}$ .

**802.11ac (VHT40)**

| Chan. | Chan. Freq.<br>(MHz) | PSD<br>(dBm/300kHz) | PSD<br>(dBm/500kHz) | Limit<br>(dBm/500kHz) | Pass<br>/Fail |
|-------|----------------------|---------------------|---------------------|-----------------------|---------------|
| 151   | 5755                 | -5.13               | -2.91               | 28.88                 | Pass          |
| 159   | 5795                 | -5.20               | -2.98               | 28.88                 | Pass          |

**Note:** 1. UNII-3: Ant gain = 7.12Bi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to  $30-(7.12-6) = 28.88\text{dBm}$ .

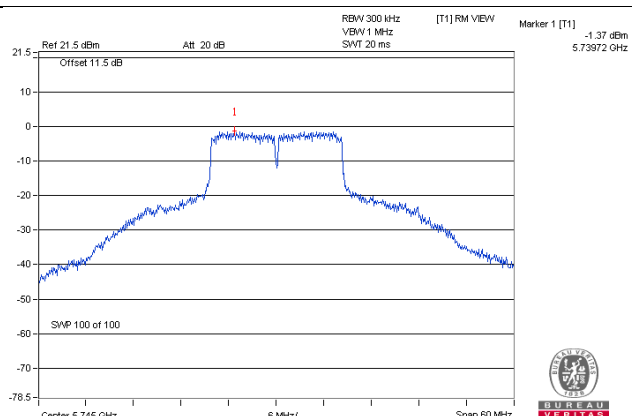
**802.11ac (VHT80)**

| Chan. | Chan. Freq.<br>(MHz) | PSD<br>(dBm/300kHz) | PSD<br>(dBm/500kHz) | Limit<br>(dBm/500kHz) | Pass<br>/Fail |
|-------|----------------------|---------------------|---------------------|-----------------------|---------------|
| 155   | 5745                 | -8.78               | -6.56               | 28.88                 | Pass          |

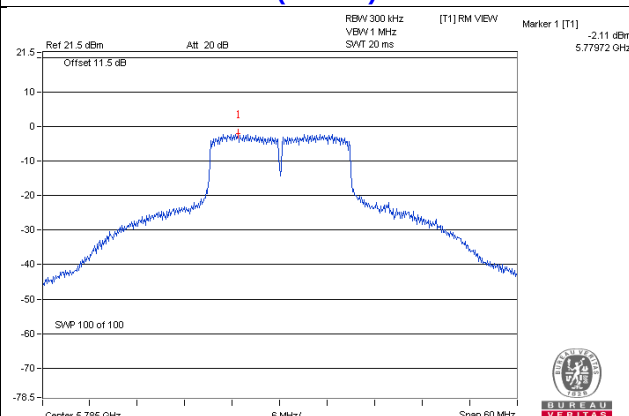
**Note:** 1. UNII-3: Ant gain = 7.12Bi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to  $30-(7.12-6) = 28.88\text{dBm}$ .

# Spectrum Plot of Worst Value

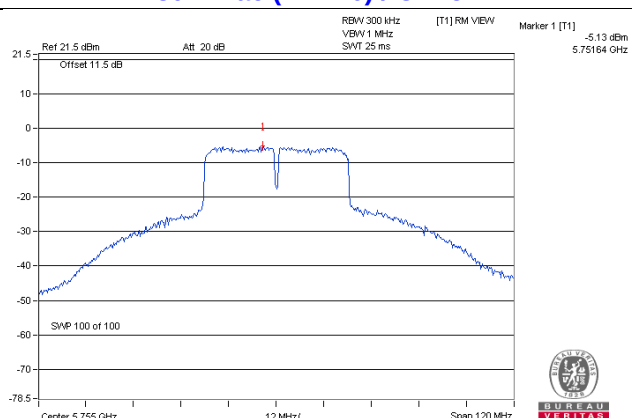
802.11a / CH149



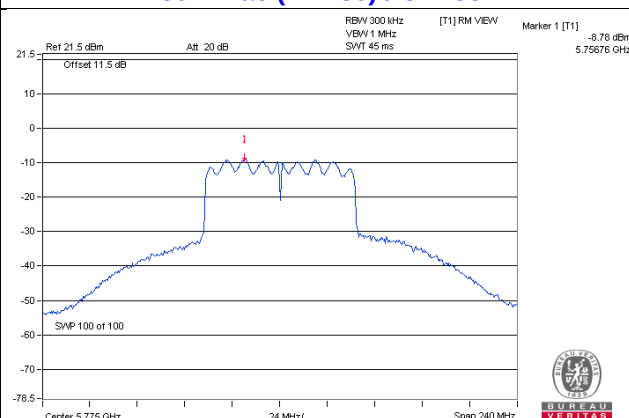
802.11ac (VHT20) / CH157



802.11ac (VHT40) / CH151



802.11ac (VHT80) / CH155





#### 4.6.7 Test Results

| Frequency Stability Versus Temp. |                          |                                |           |                                |           |                                |           |                                |           |
|----------------------------------|--------------------------|--------------------------------|-----------|--------------------------------|-----------|--------------------------------|-----------|--------------------------------|-----------|
| Operating Frequency: 5180 MHz    |                          |                                |           |                                |           |                                |           |                                |           |
| TEMP.<br>(°C)                    | Power<br>Supply<br>(Vdc) | 0 Minute                       |           | 2 Minutes                      |           | 5 Minutes                      |           | 10 Minutes                     |           |
|                                  |                          | Measured<br>Frequency<br>(MHz) | Pass/Fail | Measured<br>Frequency<br>(MHz) | Pass/Fail | Measured<br>Frequency<br>(MHz) | Pass/Fail | Measured<br>Frequency<br>(MHz) | Pass/Fail |
| 50                               | 3.3                      | 5179.9993                      | PASS      | 5179.9959                      | PASS      | 5179.9984                      | PASS      | 5179.9967                      | PASS      |
| 40                               | 3.3                      | 5179.9806                      | PASS      | 5179.9808                      | PASS      | 5179.9815                      | PASS      | 5179.9807                      | PASS      |
| 30                               | 3.3                      | 5179.9805                      | PASS      | 5179.9785                      | PASS      | 5179.9816                      | PASS      | 5179.9817                      | PASS      |
| 20                               | 3.3                      | 5180.0067                      | PASS      | 5180.0083                      | PASS      | 5180.0081                      | PASS      | 5180.0077                      | PASS      |
| 10                               | 3.3                      | 5180.0238                      | PASS      | 5180.0265                      | PASS      | 5180.024                       | PASS      | 5180.0233                      | PASS      |
| 0                                | 3.3                      | 5179.9868                      | PASS      | 5179.9898                      | PASS      | 5179.9892                      | PASS      | 5179.9861                      | PASS      |
| -10                              | 3.3                      | 5180.0262                      | PASS      | 5180.0248                      | PASS      | 5180.0232                      | PASS      | 5180.0257                      | PASS      |
| -20                              | 3.3                      | 5179.9841                      | PASS      | 5179.9839                      | PASS      | 5179.9822                      | PASS      | 5179.986                       | PASS      |
| -30                              | 3.3                      | 5179.9764                      | PASS      | 5179.9777                      | PASS      | 5179.9792                      | PASS      | 5179.9775                      | PASS      |

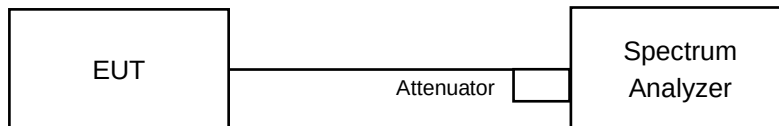
| Frequency Stability Versus Voltage |                          |                                |           |                                |           |                                |           |                                |           |
|------------------------------------|--------------------------|--------------------------------|-----------|--------------------------------|-----------|--------------------------------|-----------|--------------------------------|-----------|
| Operating Frequency: 5180 MHz      |                          |                                |           |                                |           |                                |           |                                |           |
| TEMP.<br>(°C)                      | Power<br>Supply<br>(Vdc) | 0 Minute                       |           | 2 Minutes                      |           | 5 Minutes                      |           | 10 Minutes                     |           |
|                                    |                          | Measured<br>Frequency<br>(MHz) | Pass/Fail | Measured<br>Frequency<br>(MHz) | Pass/Fail | Measured<br>Frequency<br>(MHz) | Pass/Fail | Measured<br>Frequency<br>(MHz) | Pass/Fail |
| 20                                 | 3.795                    | 5180.0074                      | PASS      | 5180.0086                      | PASS      | 5180.0073                      | PASS      | 5180.0078                      | PASS      |
|                                    | 3.3                      | 5180.0067                      | PASS      | 5180.0083                      | PASS      | 5180.0081                      | PASS      | 5180.0077                      | PASS      |
|                                    | 2.805                    | 5180.007                       | PASS      | 5180.0076                      | PASS      | 5180.0074                      | PASS      | 5180.0077                      | PASS      |

## 4.7 6dB Bandwidth Measurement

### 4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

### 4.7.2 Test Setup



### 4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.7.4 Test Procedure

#### MEASUREMENT PROCEDURE REF

- Set resolution bandwidth (RBW) = 100kHz
- Set the video bandwidth (VBW)  $\geq 3 \times$  RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

### 4.7.5 Deviation from Test Standard

No deviation.

### 4.7.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

#### 4.7.7 Test Results

##### 802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
| 149     | 5745            | 16.51               | 0.5                 | PASS        |
| 157     | 5785            | 16.53               | 0.5                 | PASS        |
| 165     | 5825            | 16.52               | 0.5                 | PASS        |

##### 802.11ac (VHT20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
| 149     | 5745            | 17.74               | 0.5                 | PASS        |
| 157     | 5785            | 17.76               | 0.5                 | PASS        |
| 165     | 5825            | 17.69               | 0.5                 | PASS        |

##### 802.11ac (VHT40)

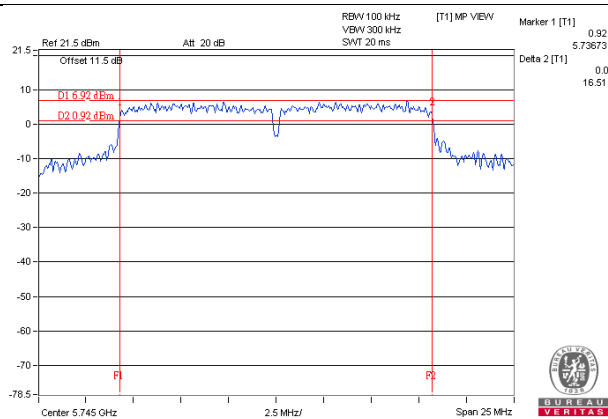
| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
| 151     | 5755            | 36.54               | 0.5                 | PASS        |
| 159     | 5795            | 36.55               | 0.5                 | PASS        |

##### 802.11ac (VHT80)

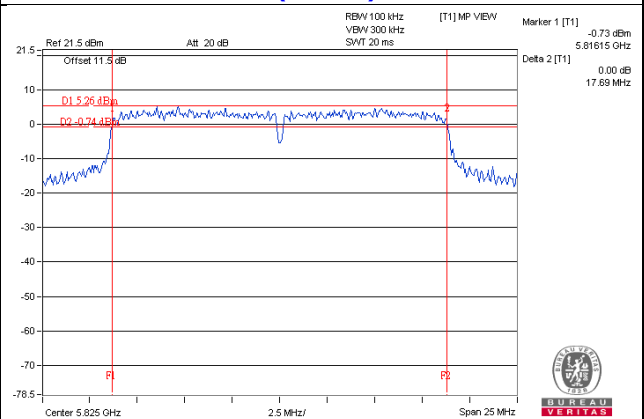
| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------------------|-------------|
| 155     | 5775            | 75.71               | 0.5                 | PASS        |

## Spectrum Plot of Worst Value

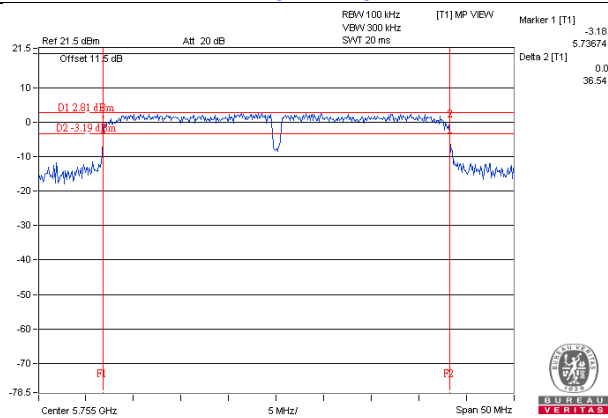
### 802.11a / CH149



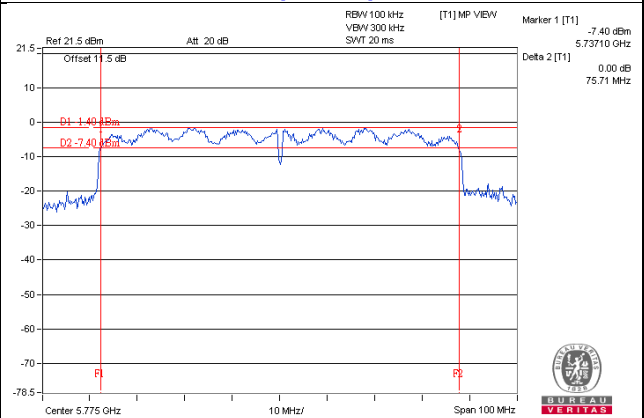
### 802.11ac (VHT20) / CH165



### 802.11ac (VHT40) / CH151



### 802.11ac (VHT80) / CH155



## 5 Pictures of Test Arrangements

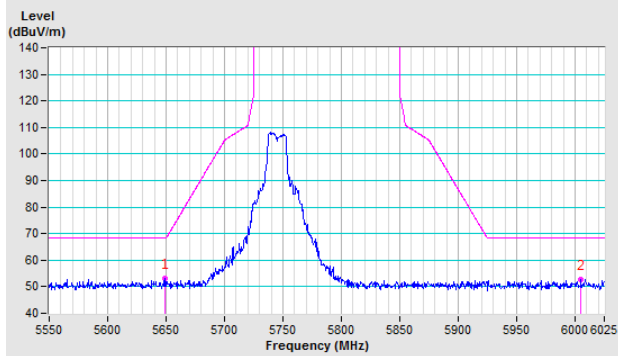
Please refer to the attached file (Test Setup Photo).

## Annex A- Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

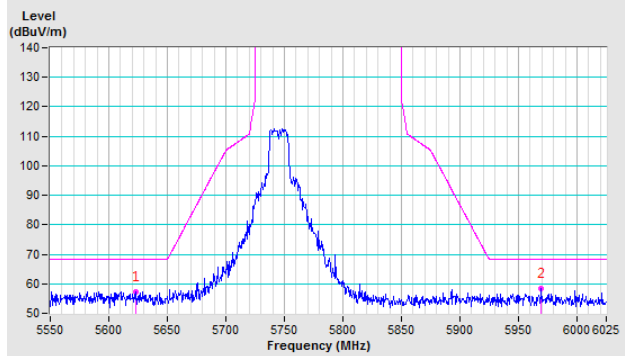
802.11a

CH 149 5745 MHz

Horizontal

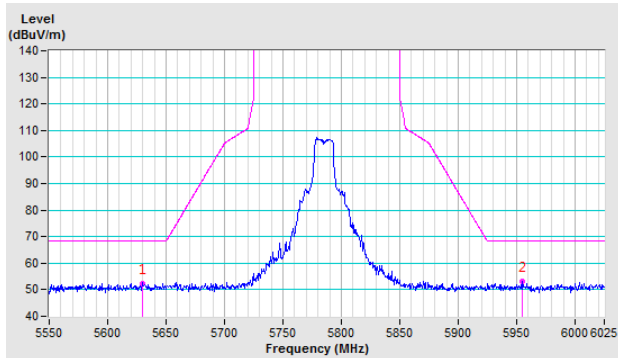


Vertical

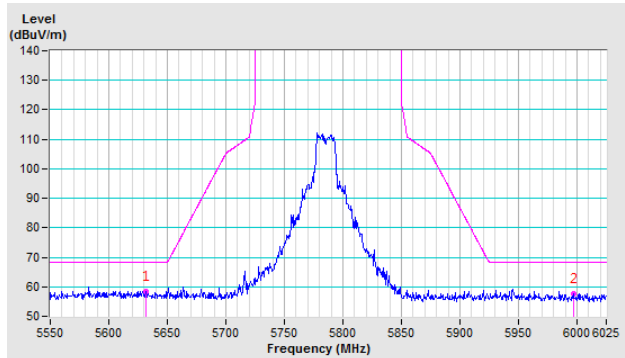


CH 157 5785 MHz

Horizontal

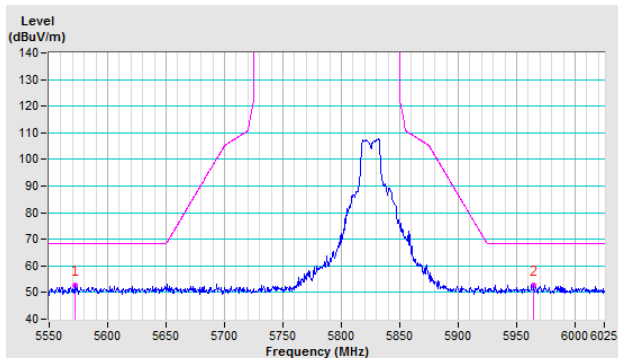


Vertical

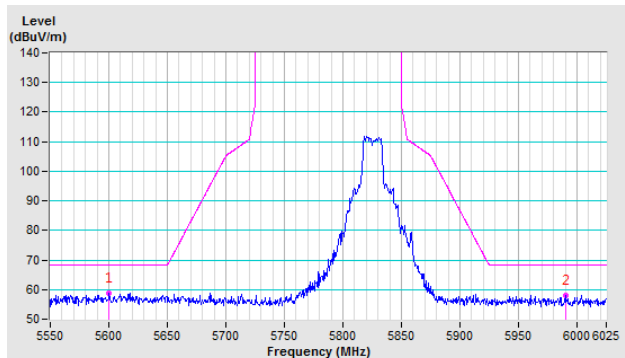


CH 165 5825 MHz

Horizontal



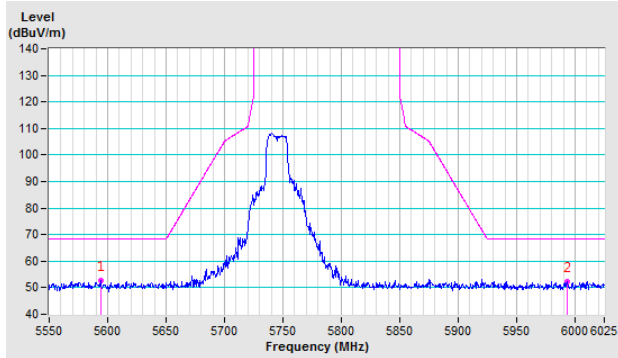
Vertical



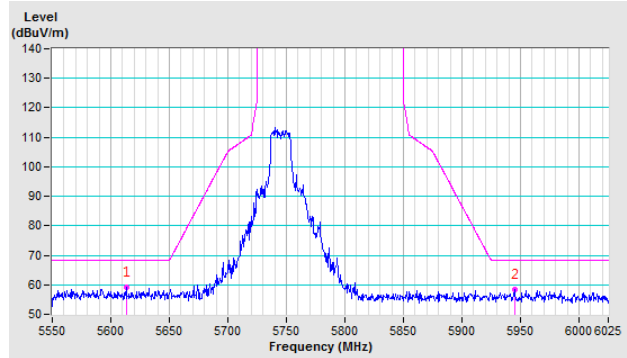
## 802.11ac (VHT20)

CH 149 5745 MHz

Horizontal

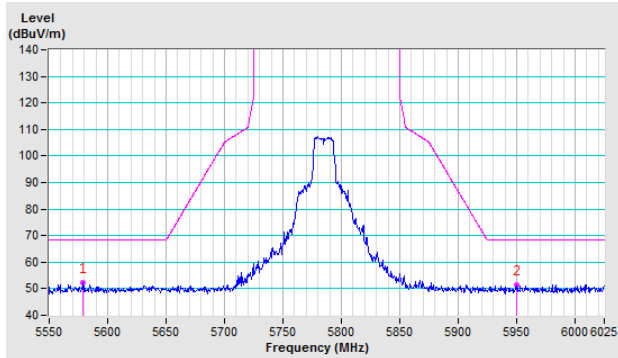


Vertical

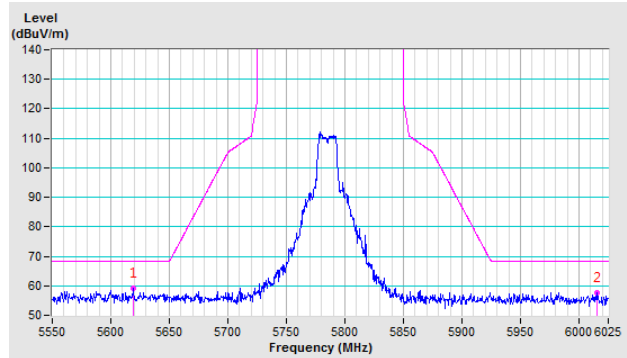


CH 157 5785 MHz

Horizontal

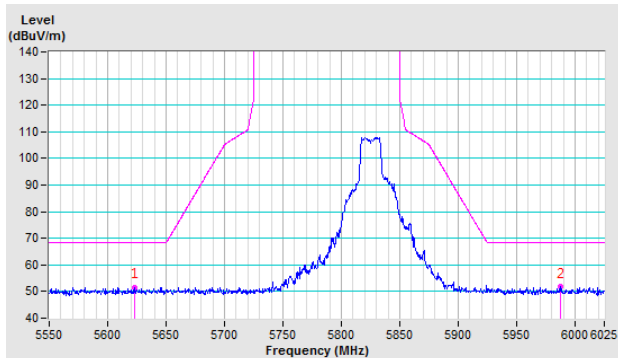


Vertical

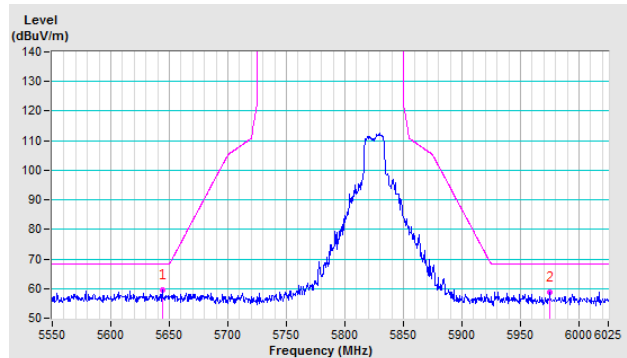


CH 165 5825 MHz

Horizontal



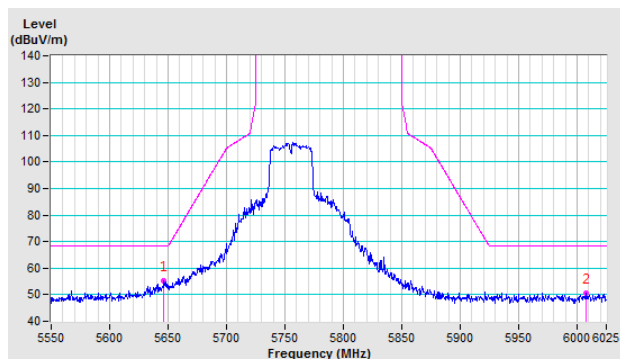
Vertical



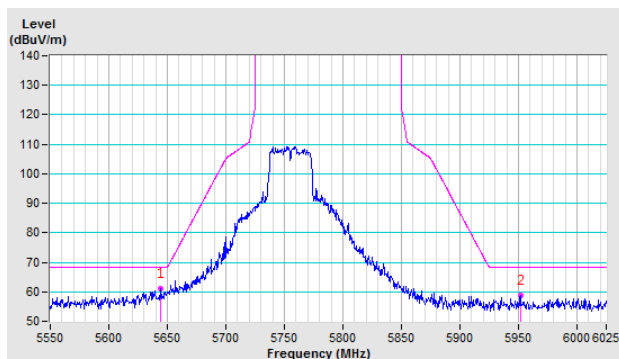
## 802.11ac (VHT40)

CH 151 5755 MHz

Horizontal

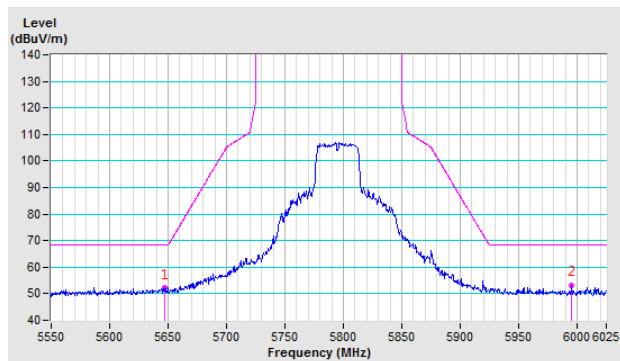


Vertical

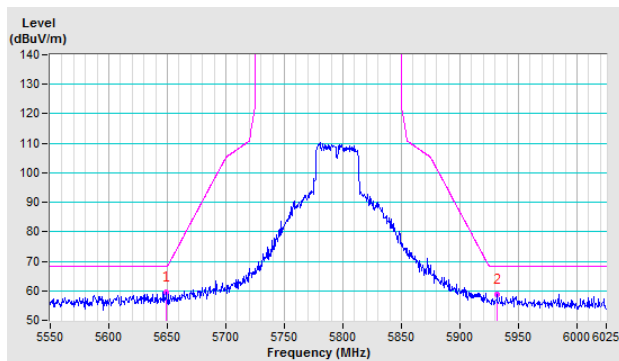


CH 159 5795 MHz

Horizontal



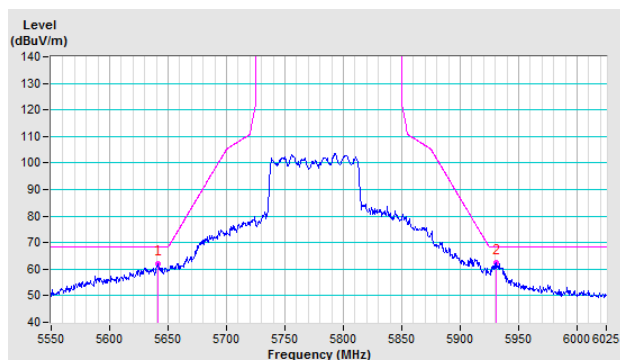
Vertical



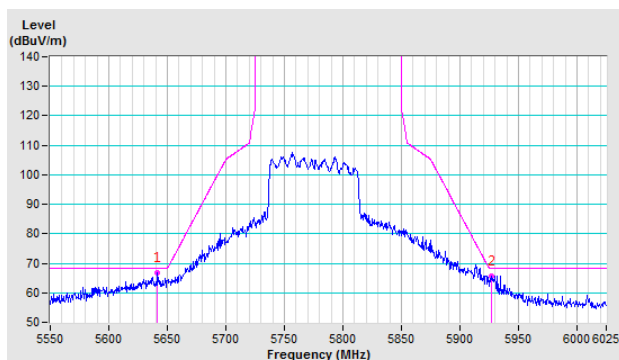
## 802.11ac (VHT80)

CH 155 5775 MHz

Horizontal



Vertical



## Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

**Linko EMC/RF Lab**

Tel: 886-2-26052180

Fax: 886-2-26051924

**Hsin Chu EMC/RF/Telecom Lab**

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**Email:** [service.adt@tw.bureauveritas.com](mailto:service.adt@tw.bureauveritas.com)

**Web Site:** [www.bureauveritas-adt.com](http://www.bureauveritas-adt.com)

The address and road map of all our labs can be found in our web site also.

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