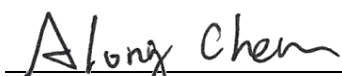


# FCC Test Report

**FCC ID** : I88WAC6552D-S  
**Equipment** : 802.11 ac Unified Pro Outdoor Access Point  
with Sector Smart Antenna  
**Model No.** : WAC6552D-S  
**Brand Name** : ZYXEL  
**Applicant** : Zyxel Communications Corporation  
**Address** : No.2 Industry East RD. IX, Hsinchu Science  
Park, Hsinchu 30075, Taiwan, R.O.C  
**Standard** : 47 CFR FCC Part 15.407  
**Received Date** : Nov. 17, 2017  
**Tested Date** : Jun. 22 ~ Jul. 19, 2018

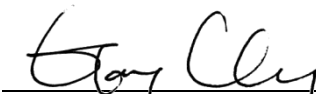
We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:



Along Chen / Assistant Manager

Approved by:



Gary Chang / Manager



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## Release Record

| Report No. | Version | Description   | Issued Date   |
|------------|---------|---------------|---------------|
| FR7N1701AN | Rev. 01 | Initial issue | Aug. 06, 2018 |

## Summary of Test Results

| FCC Rules           | Test Items                  | Measured                                                       | Result |
|---------------------|-----------------------------|----------------------------------------------------------------|--------|
| 15.207              | Conducted Emissions         | [dBuV]: 19.021MHz<br>40.17 (Margin -9.83dB) - AV               | Pass   |
| 15.407(b)<br>15.209 | Radiated Emissions          | [dBuV/m at 3m]: 5435.00MHz<br>53.88 (Margin -0.12dB) - AV      | Pass   |
| 15.407(a)           | Emission Bandwidth          | Meet the requirement of limit                                  | Pass   |
| 15.407(e)           | 6dB bandwidth               | Meet the requirement of limit                                  | Pass   |
| 15.407(a)           | RF Output Power             | Max Power [dBm]:<br>5150-5250MHz: 27.51<br>5725-5850MHz: 27.31 | Pass   |
| 15.407(a)           | Peak Power Spectral Density | Meet the requirement of limit                                  | Pass   |
| 15.407(g)           | Frequency Stability         | Meet the requirement of limit                                  | Pass   |
| 15.203              | Antenna Requirement         | Meet the requirement of limit                                  | Pass   |

# 1 General Description

## 1.1 Information

### 1.1.1 Specification of the Equipment under Test (EUT)

| RF General Information |                  |                 |                |                                    |                 |
|------------------------|------------------|-----------------|----------------|------------------------------------|-----------------|
| Frequency Range (MHz)  | IEEE Std. 802.11 | Ch. Freq. (MHz) | Channel Number | Transmit Chains (N <sub>TX</sub> ) | Data Rate / MCS |
| 5150-5250              | a                | 5180-5240       | 36-48 [4]      | 2                                  | 6-54 Mbps       |
| 5150-5250              | n (HT20)         | 5180-5240       | 36-48 [4]      | 2                                  | MCS 0-15        |
| 5150-5250              | n (HT40)         | 5190-5230       | 38-46 [2]      | 2                                  | MCS 0-15        |
| 5150-5250              | ac (VHT20)       | 5180-5240       | 36-48 [4]      | 2                                  | MCS 0-9         |
| 5150-5250              | ac (VHT40)       | 5190-5230       | 38-46 [2]      | 2                                  | MCS 0-9         |
| 5150-5250              | ac (VHT80)       | 5210            | 42 [1]         | 2                                  | MCS 0-9         |

Note 1: RF output power specifies that Maximum Conducted Output Power.  
Note 2: 802.11a/n/ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.

| RF General Information |                  |                 |                |                                    |                 |
|------------------------|------------------|-----------------|----------------|------------------------------------|-----------------|
| Frequency Range (MHz)  | IEEE Std. 802.11 | Ch. Freq. (MHz) | Channel Number | Transmit Chains (N <sub>TX</sub> ) | Data Rate / MCS |
| 5725-5850              | a                | 5745-5825       | 149-165 [5]    | 2                                  | 6-54 Mbps       |
| 5725-5850              | n (HT20)         | 5745-5825       | 149-165 [5]    | 2                                  | MCS 0-15        |
| 5725-5850              | n (HT40)         | 5755-5795       | 151-159 [2]    | 2                                  | MCS 0-15        |
| 5725-5850              | ac (VHT20)       | 5745-5825       | 149-165 [5]    | 2                                  | MCS 0-9         |
| 5725-5850              | ac (VHT40)       | 5755-5795       | 151-159 [2]    | 2                                  | MCS 0-9         |
| 5725-5850              | ac (VHT80)       | 5775            | 155 [1]        | 2                                  | MCS 0-9         |

Note 1: RF output power specifies that Maximum Conducted Output Power.  
Note 2: 802.11a/n/ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.

### 1.1.2 Antenna Details

| Ant. No. | Model         | Type      | Connector | Operating Frequencies (MHz) / Antenna Gain (dBi) |           |           |
|----------|---------------|-----------|-----------|--------------------------------------------------|-----------|-----------|
|          |               |           |           | 2400~2483.5                                      | 5150~5250 | 5725~5850 |
| 1        | SECTX-DB r2.0 | Direction | I-PEX     | 0.8                                              | 4.22      | 5.34      |

### 1.1.3 Power Supply Type of Equipment under Test (EUT)

|                   |                                        |
|-------------------|----------------------------------------|
| Power Supply Type | 55Vdc from POE (for support unit only) |
|-------------------|----------------------------------------|

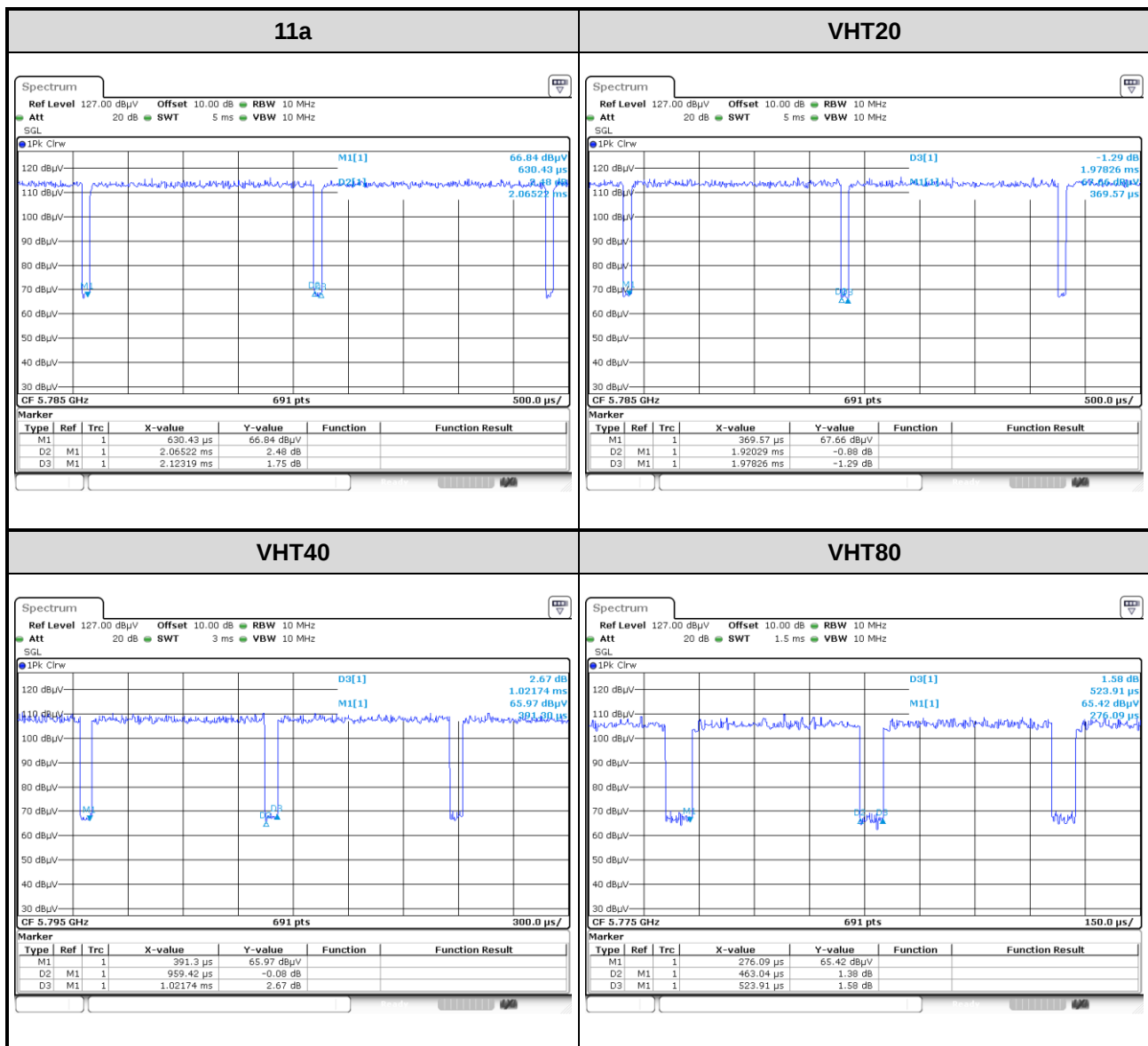
#### 1.1.4 Channel List

| For Frequency band 5150-5250 MHz |                |              |                |
|----------------------------------|----------------|--------------|----------------|
| 802.11 a / HT20 / VHT20          |                | HT40 / VHT40 |                |
| Channel                          | Frequency(MHz) | Channel      | Frequency(MHz) |
| 36                               | 5180           | 38           | 5190           |
| 40                               | 5200           | 46           | 5230           |
| 44                               | 5220           | VHT80        |                |
| 48                               | 5240           | 42           | 5210           |

| For Frequency band 5725~5850 MHz |                |              |                |
|----------------------------------|----------------|--------------|----------------|
| 802.11 a / HT20 / VHT20          |                | HT40 / VHT40 |                |
| Channel                          | Frequency(MHz) | Channel      | Frequency(MHz) |
| 149                              | 5745           | 151          | 5755           |
| 153                              | 5765           | 159          | 5795           |
| 157                              | 5785           | VHT80        |                |
| 161                              | 5805           | 155          | 5775           |
| 165                              | 5825           | ---          | ---            |

### 1.1.5 Test Tool and Duty Cycle

| Test Tool                  | cart  |                |                  |
|----------------------------|-------|----------------|------------------|
| Duty Cycle and Duty Factor | Mode  | Duty cycle (%) | Duty factor (dB) |
|                            | 11a   | 97.27%         | 0.12             |
|                            | VHT20 | 97.07%         | 0.13             |
|                            | VHT40 | 93.90%         | 0.27             |
|                            | VHT80 | 88.38%         | 0.54             |



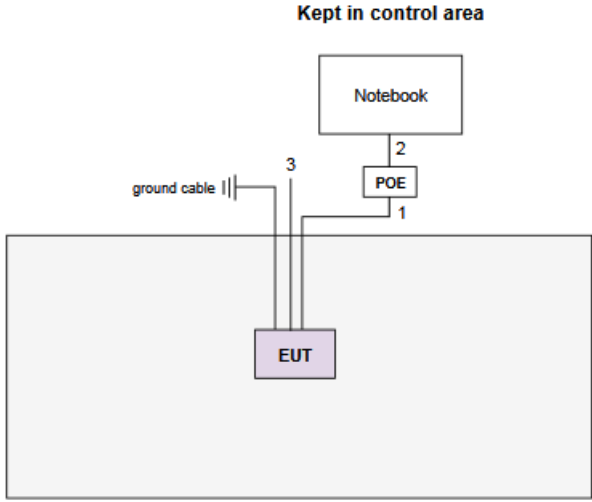
### 1.1.6 Power Setting

| Modulation Mode | Test Frequency (MHz) | Power Set |
|-----------------|----------------------|-----------|
| 11a             | 5180                 | 20.5      |
| 11a             | 5200                 | 25        |
| 11a             | 5240                 | 25        |
| 11a             | 5745                 | 25        |
| 11a             | 5785                 | 25        |
| 11a             | 5825                 | 25        |
| VHT20           | 5180                 | 20        |
| VHT20           | 5200                 | 25        |
| VHT20           | 5240                 | 25        |
| VHT20           | 5745                 | 25        |
| VHT20           | 5785                 | 25        |
| VHT20           | 5825                 | 25        |
| VHT40           | 5190                 | 15.5      |
| VHT40           | 5230                 | 25        |
| VHT40           | 5755                 | 25        |
| VHT40           | 5795                 | 25        |
| VHT80           | 5210                 | 14.5      |
| VHT80           | 5775                 | 22        |

## 1.2 Local Support Equipment List

| Support Equipment List |           |           |                |        |                        |
|------------------------|-----------|-----------|----------------|--------|------------------------|
| No.                    | Equipment | Brand     | Model          | FCC ID | Remarks                |
| 1                      | Notebook  | DELL      | Latitude E6440 | DoC    | ---                    |
| 2                      | POE       | Microsemi | PD9001GR/AC    | ---    | Provided by applicant. |

## 1.3 Test Setup Chart

| Test Setup Diagram                                                                                                                          |                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| <p style="text-align: center;">Kept in control area</p>  |                                                            |
| No.                                                                                                                                         | Signal cable / Length (m)                                  |
| 1                                                                                                                                           | RJ45, 10m non-shielded.                                    |
| 2                                                                                                                                           | RJ45, 1.5m non-shielded.                                   |
| 3                                                                                                                                           | RJ45 to RS232, 1.8m non-shielded. (Provided by applicant.) |

## 1.4 The Equipment List

| Test Item                                                           | Conducted Emission            |                          |            |                  |                   |
|---------------------------------------------------------------------|-------------------------------|--------------------------|------------|------------------|-------------------|
| Test Site                                                           | Conduction room 1 / (CO01-WS) |                          |            |                  |                   |
| Instrument                                                          | Manufacturer                  | Model No.                | Serial No. | Calibration Date | Calibration Until |
| Receiver                                                            | Agilent                       | N9038A                   | MY53290044 | Sep. 26, 2017    | Sep. 25, 2018     |
| LISN                                                                | R&S                           | ENV216                   | 101579     | Feb. 13, 2018    | Feb. 12, 2019     |
| RF Cable-CON                                                        | EMC                           | EMCCFD300-BM-B<br>M-6000 | 50821      | Dec. 18, 2017    | Dec. 17, 2018     |
| Measurement Software                                                | AUDIX                         | e3                       | 6.120210k  | NA               | NA                |
| Note: Calibration Interval of instruments listed above is one year. |                               |                          |            |                  |                   |

| Test Item                                                           | Radiated Emission           |                       |                         |                  |                   |
|---------------------------------------------------------------------|-----------------------------|-----------------------|-------------------------|------------------|-------------------|
| Test Site                                                           | 966 chamber 3 / (03CH03-WS) |                       |                         |                  |                   |
| Instrument                                                          | Manufacturer                | Model No.             | Serial No.              | Calibration Date | Calibration Until |
| Spectrum Analyzer                                                   | R&S                         | FSV40                 | 101499                  | Jan. 03, 2018    | Jan. 02, 2019     |
| Receiver                                                            | R&S                         | ESR3                  | 101658                  | Nov. 20, 2017    | Nov. 19, 2018     |
| Bilog Antenna                                                       | SCHWARZBECK                 | VULB9168              | VULB9168-685            | Apr. 19, 2018    | Apr. 18, 2019     |
| Horn Antenna<br>1G-18G                                              | SCHWARZBECK                 | BBHA 9120 D           | BBHA 9120 D 1206        | Jan. 18, 2018    | Jan. 17, 2019     |
| Horn Antenna<br>18G-40G                                             | SCHWARZBECK                 | BBHA 9170             | BBHA 9170517            | Nov. 23, 2017    | Nov. 22, 2018     |
| Loop Antenna                                                        | R&S                         | HFH2-Z2               | 100330                  | Nov. 13, 2017    | Nov. 12, 2018     |
| Loop Antenna Cable                                                  | KOAX KABEL                  | 101354-BW             | 101354-BW               | Dec. 07, 2017    | Dec. 06, 2018     |
| Preamplifier                                                        | EMC                         | EMC02325              | 980187                  | Sep. 04, 2017    | Sep. 03, 2018     |
| Preamplifier                                                        | Agilent                     | 83017A                | MY53270014              | Aug. 21, 2017    | Aug. 20, 2018     |
| Preamplifier                                                        | EMC                         | EMC184045B            | 980192                  | Aug. 22, 2017    | Aug. 21, 2018     |
| RF cable-3M                                                         | HUBER+SUHNER                | SUCOFLEX104           | MY22620/4               | Nov. 27, 2017    | Nov. 26, 2018     |
| RF cable-8M                                                         | HUBER+SUHNER                | SUCOFLEX104           | MY32487/4               | Nov. 27, 2017    | Nov. 26, 2018     |
| RF cable-1M                                                         | HUBER+SUHNER                | SUCOFLEX104           | MY22624/4               | Nov. 27, 2017    | Nov. 26, 2018     |
| LF cable-0.8M                                                       | EMC                         | EMC8D-NM-NM-800       | EMC8D-NM-NM-800<br>-001 | Nov. 27, 2017    | Nov. 26, 2018     |
| LF cable-3M                                                         | EMC                         | EMC8D-NM-NM-300<br>0  | 131103                  | Nov. 27, 2017    | Nov. 26, 2018     |
| LF cable-13M                                                        | EMC                         | EMC8D-NM-NM-130<br>00 | 131104                  | Nov. 27, 2017    | Nov. 26, 2018     |
| Measurement Software                                                | AUDIX                       | e3                    | 6.120210g               | NA               | NA                |
| Note: Calibration Interval of instruments listed above is one year. |                             |                       |                         |                  |                   |

|                                                                     |                     |                  |                   |                         |                          |
|---------------------------------------------------------------------|---------------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | RF Conducted        |                  |                   |                         |                          |
| <b>Test Site</b>                                                    | (TH01-WS)           |                  |                   |                         |                          |
| <b>Instrument</b>                                                   | <b>Manufacturer</b> | <b>Model No.</b> | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Spectrum Analyzer                                                   | R&S                 | FSV40            | 101063            | Apr. 16, 2018           | Apr. 15, 2019            |
| TEMP&HUMIDITY CHAMBER                                               | GIANT FORCE         | GCT-225-40-SP-SD | MAF1212-002       | Nov. 27, 2017           | Nov. 26, 2018            |
| Power Meter                                                         | Anritsu             | ML2495A          | 1241002           | Oct. 16, 2017           | Oct. 15, 2018            |
| Power Sensor                                                        | Anritsu             | MA2411B          | 1207366           | Oct. 16, 2017           | Oct. 15, 2018            |
| AC POWER SOURCE                                                     | APC                 | AFC-500W         | F312060012        | Dec. 01, 2017           | Nov. 30, 2018            |
| Measurement Software                                                | Sporton             | Sporton_1        | 1.3.30            | NA                      | NA                       |
| Note: Calibration Interval of instruments listed above is one year. |                     |                  |                   |                         |                          |

## 1.5 Testing Applied Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.407

ANSI C63.10-2013

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

## 1.6 Measurement Uncertainty

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

| Measurement Uncertainty  |             |
|--------------------------|-------------|
| Parameters               | Uncertainty |
| Bandwidth                | ±34.134 Hz  |
| Conducted power          | ±0.808 dB   |
| Frequency error          | ±34.134 Hz  |
| Power density            | ±0.463 dB   |
| Conducted emission       | ±2.670 dB   |
| AC conducted emission    | ±2.90 dB    |
| Radiated emission ≤ 1GHz | ±3.66 dB    |
| Radiated emission > 1GHz | ±5.37 dB    |
| Time                     | ±0.1%       |
| Temperature              | ±0.6 °C     |

## 2 Test Configuration

### 2.1 Testing Condition

| Test Item          | Test Site | Ambient Condition | Tested By              |
|--------------------|-----------|-------------------|------------------------|
| AC Conduction      | CO01-WS   | 23°C / 55%        | Alex Tsai              |
| Radiated Emissions | 03CH03-WS | 25°C / 60-63%     | Aska Huang<br>Roger Lu |
| RF Conducted       | TH01-WS   | 21°C / 63%        | Brad Wu                |

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- IC site registration No.: 10807C-1

## 2.2 The Worst Test Modes and Channel Details

| For Frequency band 5150-5250 MHz                                                  |                 |                      |                        |                    |
|-----------------------------------------------------------------------------------|-----------------|----------------------|------------------------|--------------------|
| Test item                                                                         | Modulation Mode | Test Frequency (MHz) | Data Rate (Mbps) / MCS | Test Configuration |
| Conducted Emissions                                                               | VHT20           | 5200                 | MCS 0                  | ---                |
| Radiated Emissions $\leq 1$ GHz                                                   | VHT20           | 5200                 | MCS 0                  | ---                |
| RF Output Power                                                                   | 11a             | 5180 / 5200 / 5240   | 6 Mbps                 | ---                |
|                                                                                   | VHT20           | 5180 / 5200 / 5240   | MCS 0                  |                    |
|                                                                                   | VHT40           | 5190 / 5230          | MCS 0                  |                    |
|                                                                                   | VHT80           | 5210                 | MCS 0                  |                    |
| Radiated Emissions $> 1$ GHz<br>Emission Bandwidth<br>Peak Power Spectral Density | 11a             | 5180 / 5200 / 5240   | 6 Mbps                 | ---                |
|                                                                                   | VHT20           | 5180 / 5200 / 5240   | MCS 0                  |                    |
|                                                                                   | VHT40           | 5190 / 5230          | MCS 0                  |                    |
|                                                                                   | VHT80           | 5210                 | MCS 0                  |                    |
| Frequency Stability                                                               | Un-modulation   | 5200                 | ---                    | ---                |

| For Frequency band 5725-5850 MHz                                                                   |                 |                      |                        |                    |
|----------------------------------------------------------------------------------------------------|-----------------|----------------------|------------------------|--------------------|
| Test item                                                                                          | Modulation Mode | Test Frequency (MHz) | Data Rate (Mbps) / MCS | Test Configuration |
| Conducted Emissions                                                                                | 11a             | 5745                 | 6 Mbps                 | ---                |
| Radiated Emissions $\leq 1$ GHz                                                                    | 11a             | 5745                 | 6 Mbps                 | ---                |
| RF Output Power                                                                                    | 11a             | 5745 / 5785 / 5825   | 6 Mbps                 | ---                |
|                                                                                                    | VHT20           | 5745 / 5785 / 5825   | MCS 0                  |                    |
|                                                                                                    | VHT40           | 5755 / 5795          | MCS 0                  |                    |
|                                                                                                    | VHT80           | 5775                 | MCS 0                  |                    |
| Radiated Emissions $> 1$ GHz<br>Emission Bandwidth<br>6dB bandwidth<br>Peak Power Spectral Density | 11a             | 5745 / 5785 / 5825   | 6 Mbps                 | ---                |
|                                                                                                    | VHT20           | 5745 / 5785 / 5825   | MCS 0                  |                    |
|                                                                                                    | VHT40           | 5755 / 5795          | MCS 0                  |                    |
|                                                                                                    | VHT80           | 5775                 | MCS 0                  |                    |
| Frequency Stability                                                                                | Un-modulation   | 5785                 | ---                    | ---                |

### 3 Transmitter Test Results

#### 3.1 Conducted Emissions

##### 3.1.1 Limit of Conducted Emissions

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

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

##### 3.1.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50  $\Omega$  LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

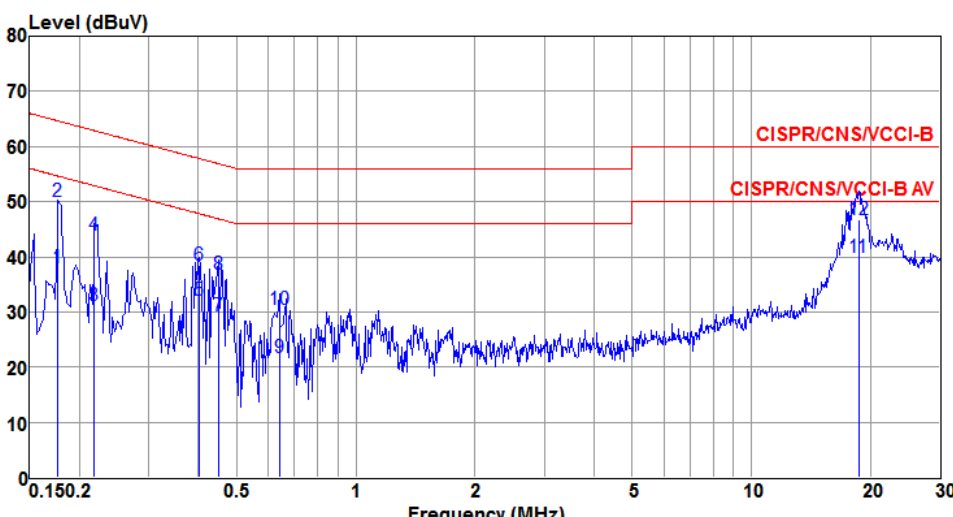
##### 3.1.3 Test Setup



- Note: 1. Support units were connected to second LISN.  
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

### 3.1.4 Test Result of Conducted Emissions

|             |       |                  |      |
|-------------|-------|------------------|------|
| Modulation  | VHT20 | Test Freq. (MHz) | 5200 |
| Power Phase | Line  |                  |      |

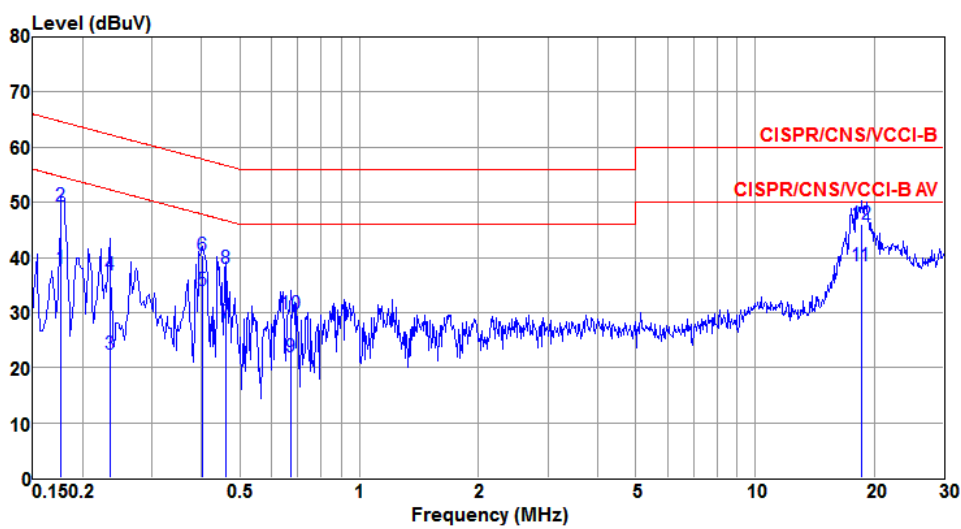
  


|     | Freq<br>MHz | Level<br>dBUV | Limit<br>Line<br>dBUV | Over<br>Limit<br>dB | Read<br>Level<br>dBUV | LISN<br>factor<br>dB | cable<br>loss<br>dB | Remark  |
|-----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1   | 0.177       | 38.01         | 54.64                 | -16.63              | 28.26                 | 9.73                 | 0.02                | Average |
| 2   | 0.177       | 50.14         | 64.64                 | -14.50              | 40.39                 | 9.73                 | 0.02                | QP      |
| 3   | 0.219       | 31.25         | 52.88                 | -21.63              | 21.49                 | 9.73                 | 0.03                | Average |
| 4   | 0.219       | 43.88         | 62.88                 | -19.00              | 34.12                 | 9.73                 | 0.03                | QP      |
| 5   | 0.402       | 32.17         | 47.81                 | -15.64              | 22.42                 | 9.73                 | 0.02                | Average |
| 6   | 0.402       | 38.56         | 57.81                 | -19.25              | 28.81                 | 9.73                 | 0.02                | QP      |
| 7   | 0.449       | 29.38         | 46.89                 | -17.51              | 19.63                 | 9.73                 | 0.02                | Average |
| 8   | 0.449       | 36.90         | 56.89                 | -19.99              | 27.15                 | 9.73                 | 0.02                | QP      |
| 9   | 0.641       | 21.65         | 46.00                 | -24.35              | 11.89                 | 9.73                 | 0.03                | Average |
| 10  | 0.641       | 30.43         | 56.00                 | -25.57              | 20.67                 | 9.73                 | 0.03                | QP      |
| 11@ | 18.721      | 39.90         | 50.00                 | -10.10              | 29.83                 | 9.73                 | 0.34                | Average |
| 12  | 18.721      | 46.62         | 60.00                 | -13.38              | 36.55                 | 9.73                 | 0.34                | QP      |

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).

|             |         |                  |      |
|-------------|---------|------------------|------|
| Modulation  | VHT20   | Test Freq. (MHz) | 5200 |
| Power Phase | Neutral |                  |      |



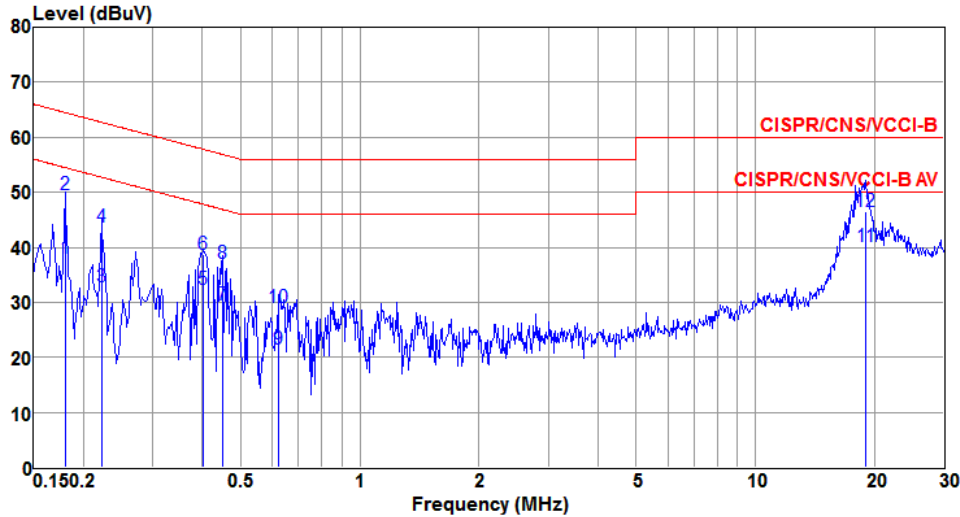
The graph displays the measured level in dBuV against frequency in MHz. Two red limit lines are shown: CISPR/CNS/VCCI-B (upper) and CISPR/CNS/VCCI-B AV (lower). The measured signal is shown as a blue line with peaks labeled 1 through 12. The x-axis ranges from 0.15 to 30 MHz, and the y-axis ranges from 0 to 80 dBuV.

|     | Freq<br>MHz | Level<br>dBuV | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Read<br>Level<br>dBuV | LISN<br>factor<br>dB | cable<br>loss<br>dB | Remark  |
|-----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1   | 0.177       | 38.08         | 54.64                 | -16.56              | 28.39                 | 9.67                 | 0.02                | Average |
| 2   | 0.177       | 49.31         | 64.64                 | -15.33              | 39.62                 | 9.67                 | 0.02                | QP      |
| 3   | 0.234       | 22.46         | 52.30                 | -29.84              | 12.76                 | 9.67                 | 0.03                | Average |
| 4   | 0.234       | 36.93         | 62.30                 | -25.37              | 27.23                 | 9.67                 | 0.03                | QP      |
| 5   | 0.402       | 33.95         | 47.81                 | -13.86              | 24.26                 | 9.67                 | 0.02                | Average |
| 6   | 0.402       | 40.46         | 57.81                 | -17.35              | 30.77                 | 9.67                 | 0.02                | QP      |
| 7   | 0.459       | 28.08         | 46.71                 | -18.63              | 18.39                 | 9.67                 | 0.02                | Average |
| 8   | 0.459       | 38.08         | 56.71                 | -18.63              | 28.39                 | 9.67                 | 0.02                | QP      |
| 9   | 0.672       | 22.07         | 46.00                 | -23.93              | 12.37                 | 9.67                 | 0.03                | Average |
| 10  | 0.672       | 29.64         | 56.00                 | -26.36              | 19.94                 | 9.67                 | 0.03                | QP      |
| 11@ | 18.524      | 38.45         | 50.00                 | -11.55              | 28.30                 | 9.82                 | 0.33                | Average |
| 12  | 18.524      | 46.00         | 60.00                 | -14.00              | 35.85                 | 9.82                 | 0.33                | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

|             |      |                  |      |
|-------------|------|------------------|------|
| Modulation  | 11a  | Test Freq. (MHz) | 5745 |
| Power Phase | Line |                  |      |

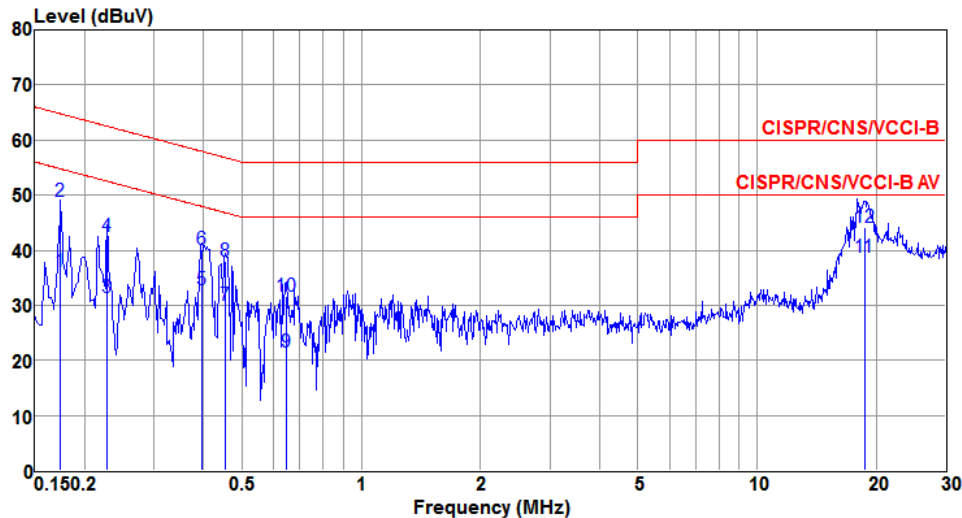


The graph displays the measured level in dBuV against frequency in MHz. Two red limit lines are shown: CISPR/CNS/VCCI-B (upper) and CISPR/CNS/VCCI-B AV (lower). The measured signal is shown as a blue line with peaks labeled 1 through 12. The x-axis ranges from 0.15 to 30 MHz, and the y-axis ranges from 0 to 80 dBuV.

|     | Freq<br>MHz | Level<br>dBuV | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Read<br>Level<br>dBuV | LISN<br>factor<br>dB | cable<br>loss<br>dB | Remark  |
|-----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1   | 0.180       | 37.93         | 54.50                 | -16.57              | 28.18                 | 9.73                 | 0.02                | Average |
| 2   | 0.180       | 49.54         | 64.50                 | -14.96              | 39.79                 | 9.73                 | 0.02                | QP      |
| 3   | 0.222       | 32.71         | 52.74                 | -20.03              | 22.95                 | 9.73                 | 0.03                | Average |
| 4   | 0.222       | 43.76         | 62.74                 | -18.98              | 34.00                 | 9.73                 | 0.03                | QP      |
| 5   | 0.402       | 32.22         | 47.81                 | -15.59              | 22.47                 | 9.73                 | 0.02                | Average |
| 6   | 0.402       | 38.78         | 57.81                 | -19.03              | 29.03                 | 9.73                 | 0.02                | QP      |
| 7   | 0.449       | 29.42         | 46.89                 | -17.47              | 19.67                 | 9.73                 | 0.02                | Average |
| 8   | 0.449       | 36.97         | 56.89                 | -19.92              | 27.22                 | 9.73                 | 0.02                | QP      |
| 9   | 0.624       | 21.45         | 46.00                 | -24.55              | 11.70                 | 9.73                 | 0.02                | Average |
| 10  | 0.624       | 29.15         | 56.00                 | -26.85              | 19.40                 | 9.73                 | 0.02                | QP      |
| 11@ | 19.021      | 40.17         | 50.00                 | -9.83               | 30.11                 | 9.72                 | 0.34                | Average |
| 12  | 19.021      | 46.40         | 60.00                 | -13.60              | 36.34                 | 9.72                 | 0.34                | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

|             |         |                  |      |
|-------------|---------|------------------|------|
| Modulation  | 11a     | Test Freq. (MHz) | 5745 |
| Power Phase | Neutral |                  |      |



|     | Freq<br>MHz | Level<br>dBUV | Limit<br>Line<br>dBUV | Over<br>Limit<br>dB | Read<br>Level<br>dBUV | LISN<br>factor<br>dB | cable<br>loss<br>dB | Remark  |
|-----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1   | 0.174       | 36.18         | 54.77                 | -18.59              | 26.49                 | 9.67                 | 0.02                | Average |
| 2   | 0.174       | 48.89         | 64.77                 | -15.88              | 39.20                 | 9.67                 | 0.02                | QP      |
| 3   | 0.228       | 31.35         | 52.52                 | -21.17              | 21.65                 | 9.67                 | 0.03                | Average |
| 4   | 0.228       | 42.58         | 62.52                 | -19.94              | 32.88                 | 9.67                 | 0.03                | QP      |
| 5   | 0.396       | 32.82         | 47.95                 | -15.13              | 23.13                 | 9.67                 | 0.02                | Average |
| 6   | 0.396       | 40.23         | 57.95                 | -17.72              | 30.54                 | 9.67                 | 0.02                | QP      |
| 7   | 0.454       | 29.93         | 46.80                 | -16.87              | 20.24                 | 9.67                 | 0.02                | Average |
| 8   | 0.454       | 38.09         | 56.80                 | -18.71              | 28.40                 | 9.67                 | 0.02                | QP      |
| 9   | 0.647       | 21.40         | 46.00                 | -24.60              | 11.70                 | 9.67                 | 0.03                | Average |
| 10  | 0.647       | 31.69         | 56.00                 | -24.31              | 21.99                 | 9.67                 | 0.03                | QP      |
| 11@ | 18.721      | 38.64         | 50.00                 | -11.36              | 28.48                 | 9.82                 | 0.34                | Average |
| 12  | 18.721      | 44.21         | 60.00                 | -15.79              | 34.05                 | 9.82                 | 0.34                | QP      |

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB).

2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).

## 3.2 Emission Bandwidth

### 3.2.1 Limit of Emission bandwidth

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

### 3.2.2 Test Procedures

#### 26dB Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW, Detector = Peak.
3. Trace mode = max hold.
4. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

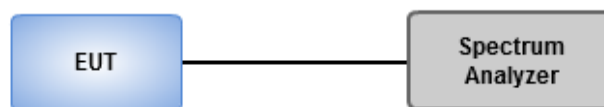
#### Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW.
2. Set VBW  $\geq$  3 RBW.
3. Sample detection and single sweep mode shall be used.
4. Use the 99 % power bandwidth function of the instrument.

#### 6dB Bandwidth

1. Set RBW = 100kHz, VBW = 300kHz.
2. Detector = Peak, Trace mode = max hold.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 3.2.3 Test Setup



### 3.2.4 Test Result of Emission Bandwidth

#### Summary

| Mode                              | Max-N dB<br>(Hz) | Max-OBW<br>(Hz) | ITU-Code | Min-N dB<br>(Hz) | Min-OBW<br>(Hz) |
|-----------------------------------|------------------|-----------------|----------|------------------|-----------------|
| 5.15-5.25GHz                      | -                | -               | -        | -                | -               |
| 802.11a_Nss1,(6Mbps)_2TX          | 35.435M          | 17.511M         | 17M5D1D  | 21.667M          | 16.57M          |
| 802.11ac<br>VHT20_Nss1,(MCS0)_2TX | 36.159M          | 18.379M         | 18M4D1D  | 22.391M          | 17.728M         |
| 802.11ac<br>VHT40_Nss1,(MCS0)_2TX | 66.667M          | 36.614M         | 36M6D1D  | 44.348M          | 36.179M         |
| 802.11ac<br>VHT80_Nss1,(MCS0)_2TX | 86.957M          | 75.832M         | 75M8D1D  | 86.377M          | 75.832M         |
| 5.725-5.85GHz                     | -                | -               | -        | -                | -               |
| 802.11a_Nss1,(6Mbps)_2TX          | 16.377M          | 17.945M         | 17M9D1D  | 16.304M          | 16.86M          |
| 802.11ac<br>VHT20_Nss1,(MCS0)_2TX | 17.609M          | 18.741M         | 18M7D1D  | 17.174M          | 18.017M         |
| 802.11ac<br>VHT40_Nss1,(MCS0)_2TX | 36.087M          | 36.758M         | 36M8D1D  | 35.797M          | 36.614M         |
| 802.11ac<br>VHT80_Nss1,(MCS0)_2TX | 75.362M          | 75.832M         | 75M8D1D  | 74.493M          | 75.832M         |

**Max-N dB** = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

**Max-OBW** = Maximum 99% occupied bandwidth;

**Min-N dB** = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

**Min-OBW** = Minimum 99% occupied bandwidth;

## Result

| Mode                           | Result | Limit<br>(Hz) | Port 1-N dB<br>(Hz) | Port 1-OBW<br>(Hz) | Port 2-N dB<br>(Hz) | Port 2-OBW<br>(Hz) |
|--------------------------------|--------|---------------|---------------------|--------------------|---------------------|--------------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -      | -             | -                   | -                  | -                   | -                  |
| 5180MHz                        | Pass   | Inf           | 21.667M             | 16.57M             | 22.681M             | 16.57M             |
| 5200MHz                        | Pass   | Inf           | 35.435M             | 17.149M            | 34.348M             | 17.511M            |
| 5240MHz                        | Pass   | Inf           | 28.261M             | 16.86M             | 30M                 | 17.221M            |
| 5745MHz                        | Pass   | 500k          | 16.377M             | 16.86M             | 16.304M             | 17.945M            |
| 5785MHz                        | Pass   | 500k          | 16.304M             | 16.932M            | 16.377M             | 17.294M            |
| 5825MHz                        | Pass   | 500k          | 16.377M             | 16.932M            | 16.377M             | 17.221M            |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5180MHz                        | Pass   | Inf           | 22.391M             | 17.728M            | 23.043M             | 17.8M              |
| 5200MHz                        | Pass   | Inf           | 33.261M             | 18.09M             | 36.159M             | 18.379M            |
| 5240MHz                        | Pass   | Inf           | 28.261M             | 18.017M            | 35.435M             | 18.162M            |
| 5745MHz                        | Pass   | 500k          | 17.536M             | 18.017M            | 17.536M             | 18.741M            |
| 5785MHz                        | Pass   | 500k          | 17.609M             | 18.09M             | 17.319M             | 18.09M             |
| 5825MHz                        | Pass   | 500k          | 17.536M             | 18.017M            | 17.174M             | 18.162M            |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5190MHz                        | Pass   | Inf           | 44.783M             | 36.179M            | 44.348M             | 36.469M            |
| 5230MHz                        | Pass   | Inf           | 54.638M             | 36.614M            | 66.667M             | 36.614M            |
| 5755MHz                        | Pass   | 500k          | 36.087M             | 36.758M            | 36.087M             | 36.758M            |
| 5795MHz                        | Pass   | 500k          | 35.797M             | 36.758M            | 35.797M             | 36.614M            |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -      | -             | -                   | -                  | -                   | -                  |
| 5210MHz                        | Pass   | Inf           | 86.377M             | 75.832M            | 86.957M             | 75.832M            |
| 5775MHz                        | Pass   | 500k          | 74.493M             | 75.832M            | 75.362M             | 75.832M            |

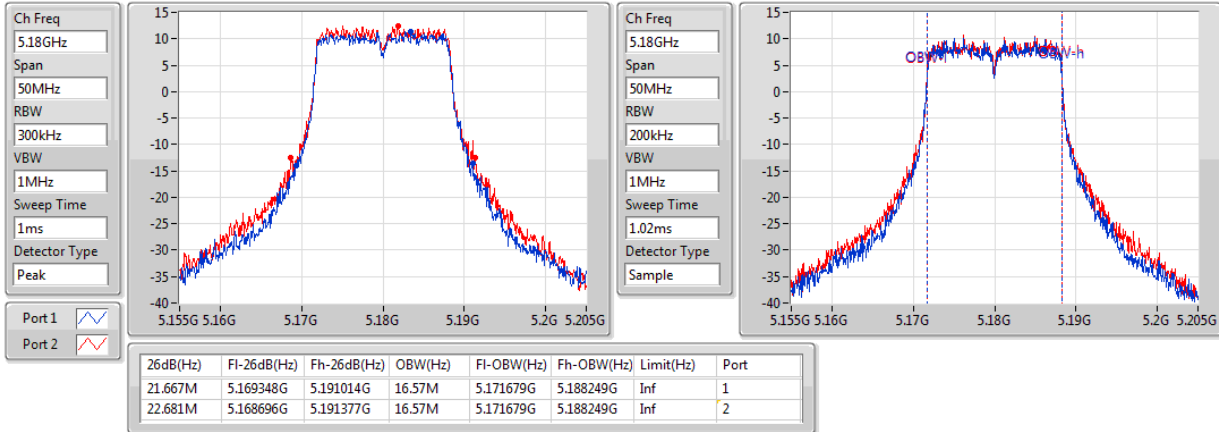
**Port X-N dB** = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

**Port X-OBW** = Port X 99% occupied bandwidth;

## 802.11a\_Nss1,(6Mbps)\_2TX

EBW

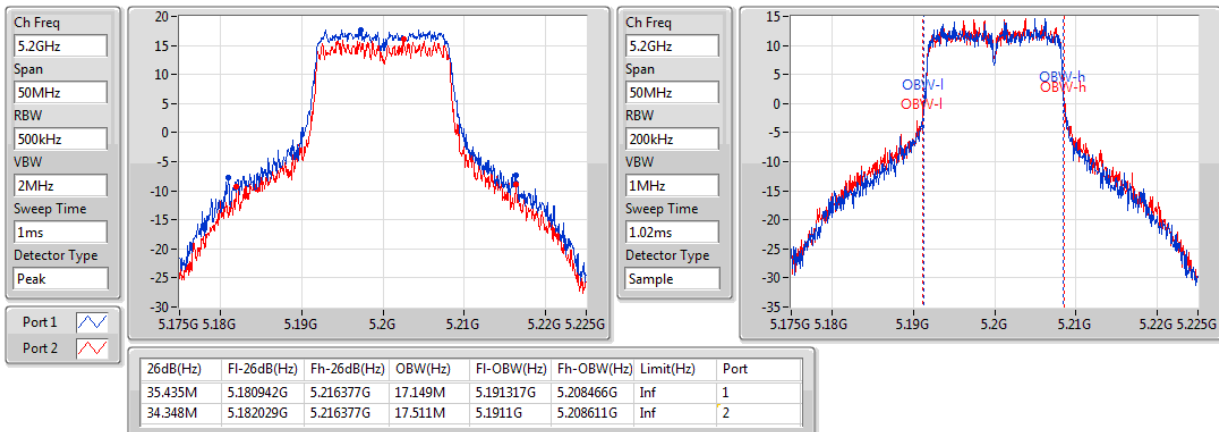
5180MHz



## 802.11a\_Nss1,(6Mbps)\_2TX

EBW

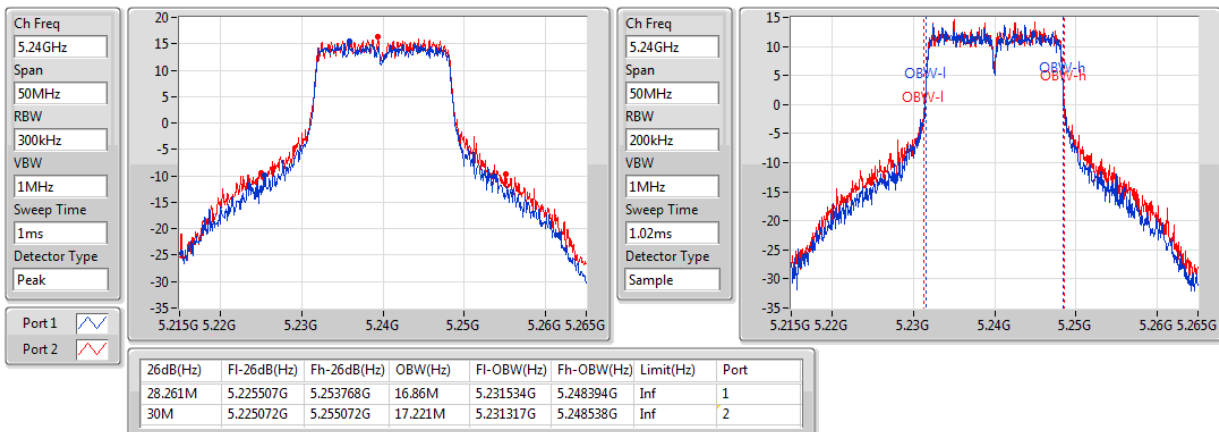
5200MHz



## 802.11a\_Nss1,(6Mbps)\_2TX

EBW

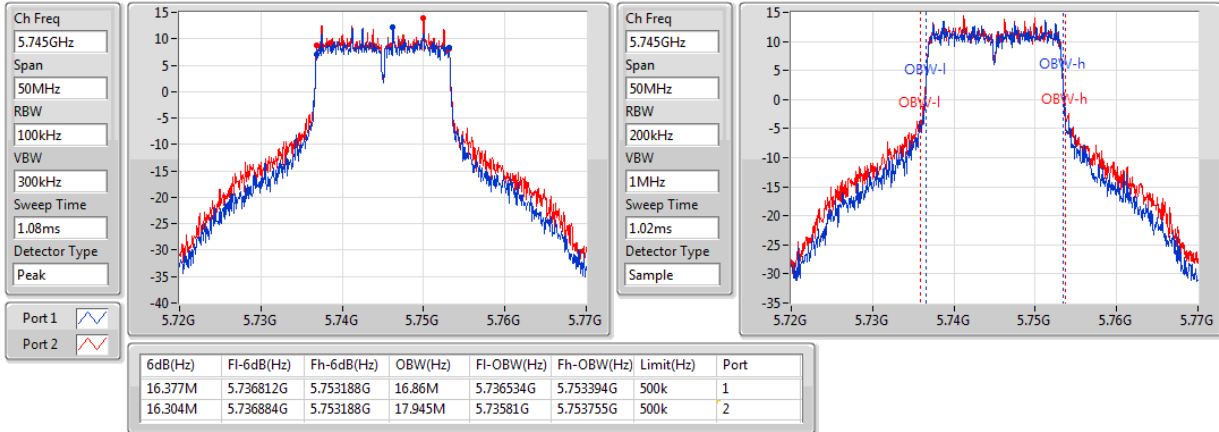
5240MHz



## 802.11a\_Nss1,(6Mbps)\_2TX

EBW

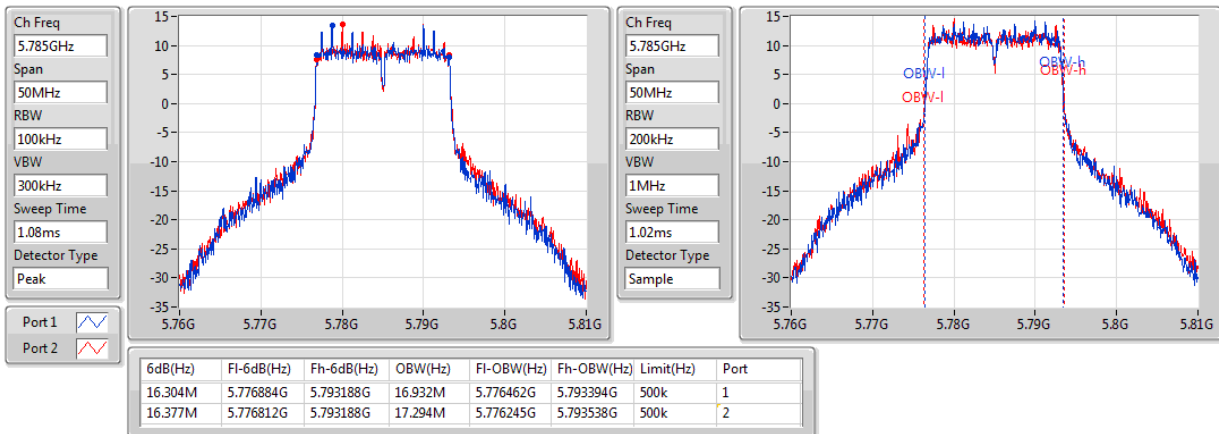
5745MHz



## 802.11a\_Nss1,(6Mbps)\_2TX

EBW

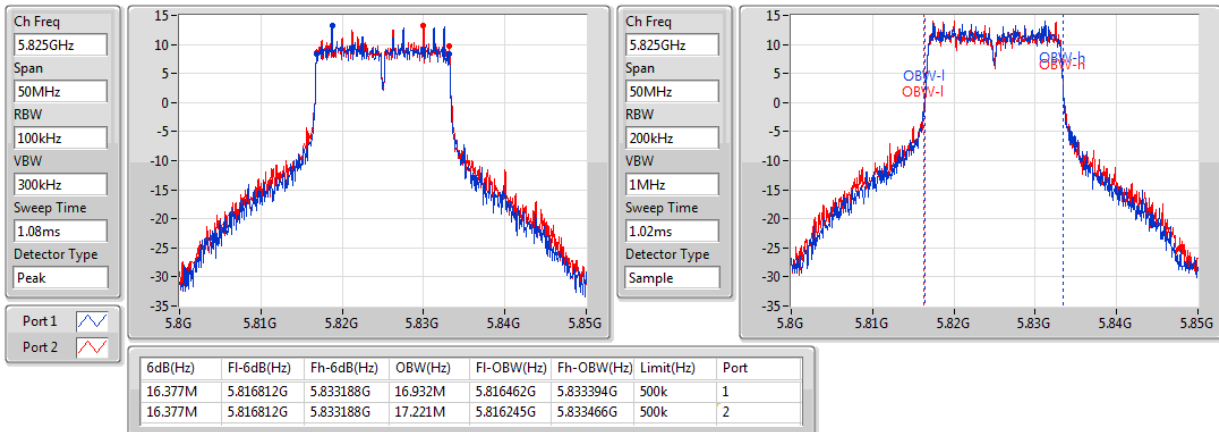
5785MHz



## 802.11a\_Nss1,(6Mbps)\_2TX

EBW

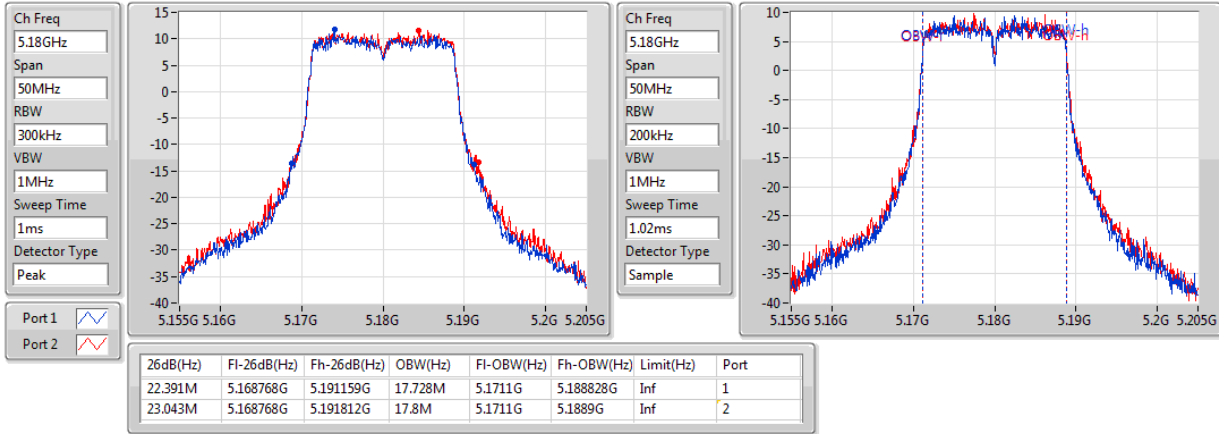
5825MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

EBW

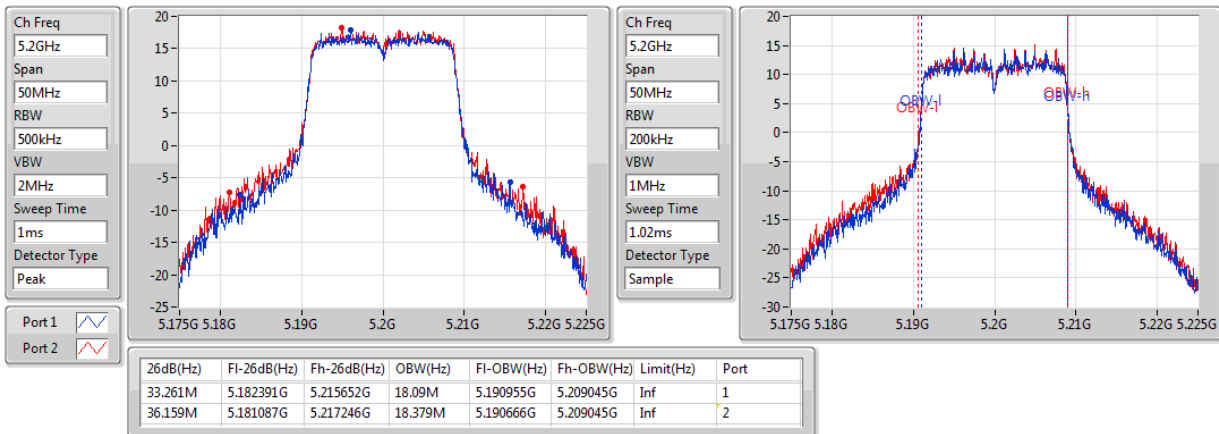
5180MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

EBW

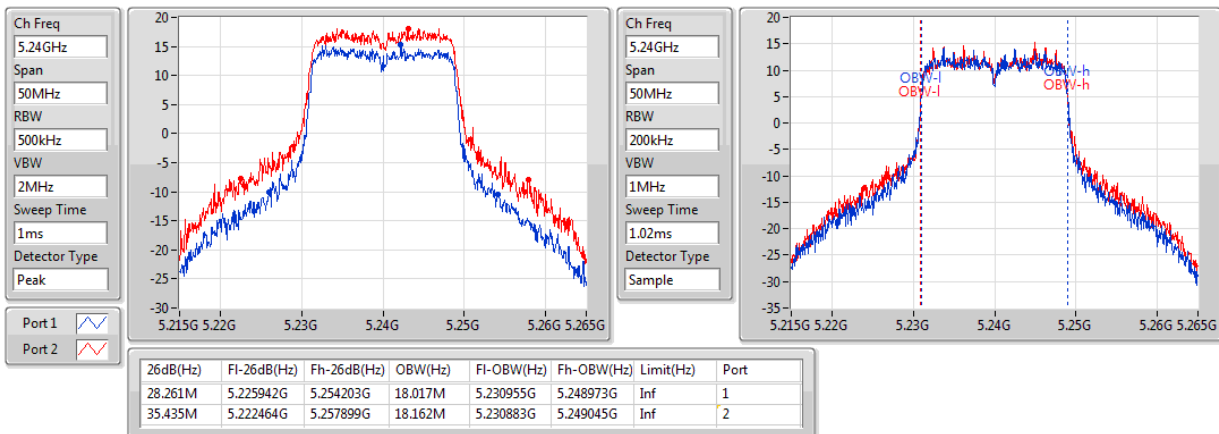
5200MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

EBW

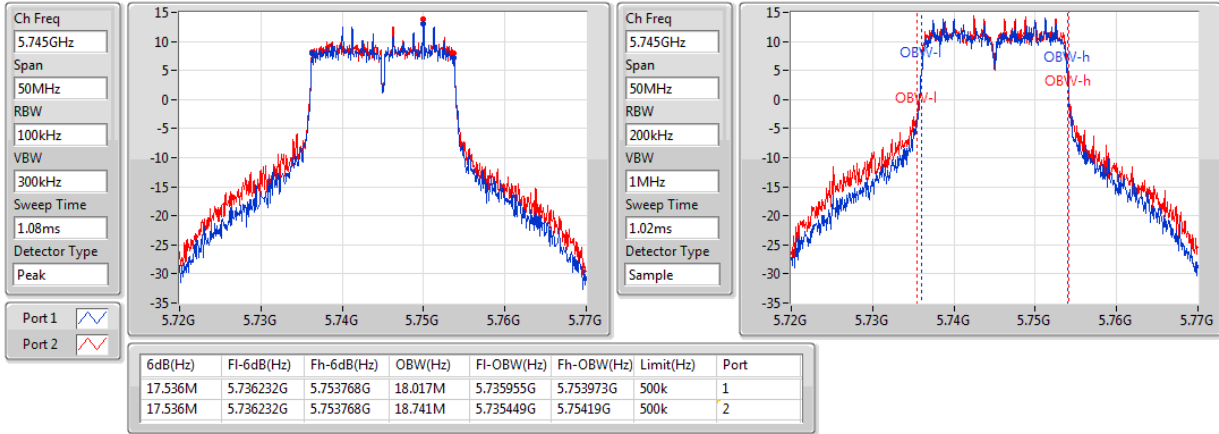
5240MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

EBW

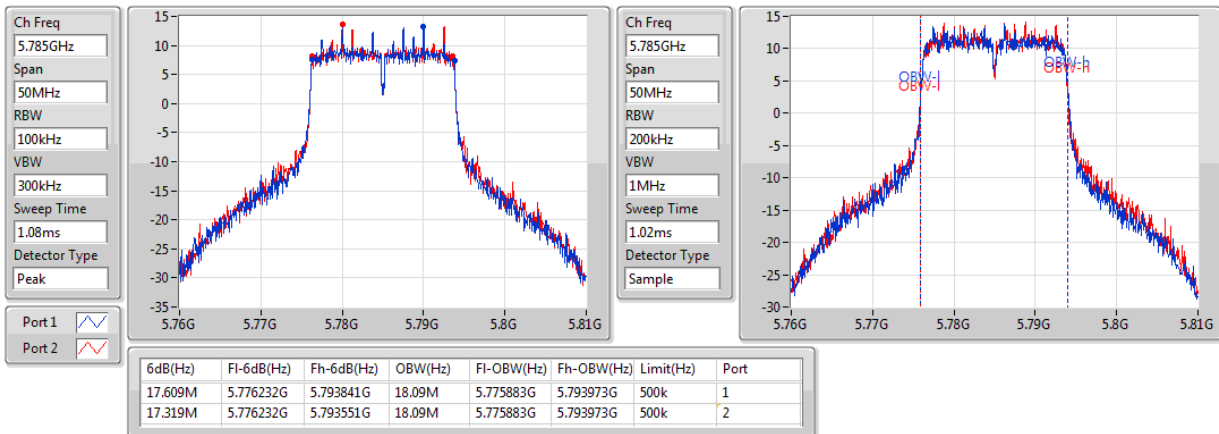
5745MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

EBW

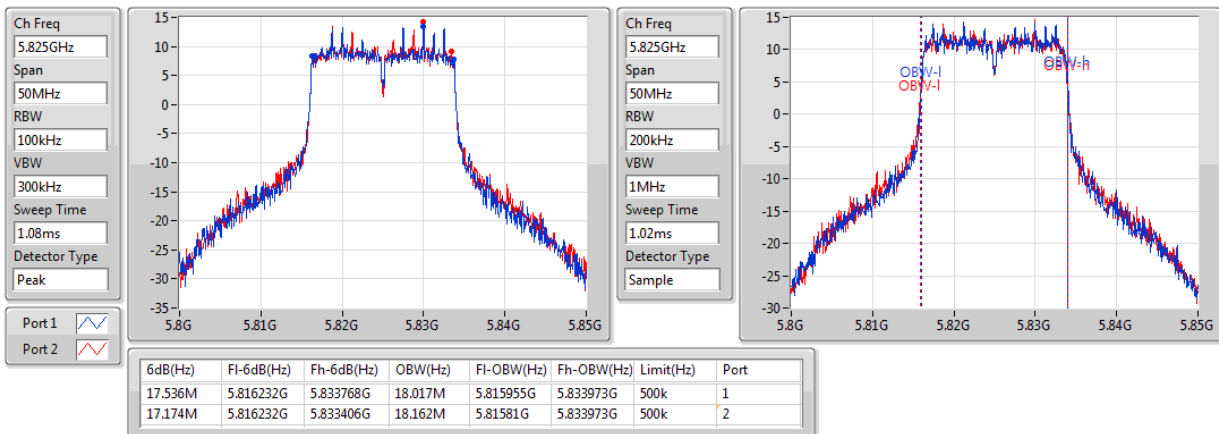
5785MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

EBW

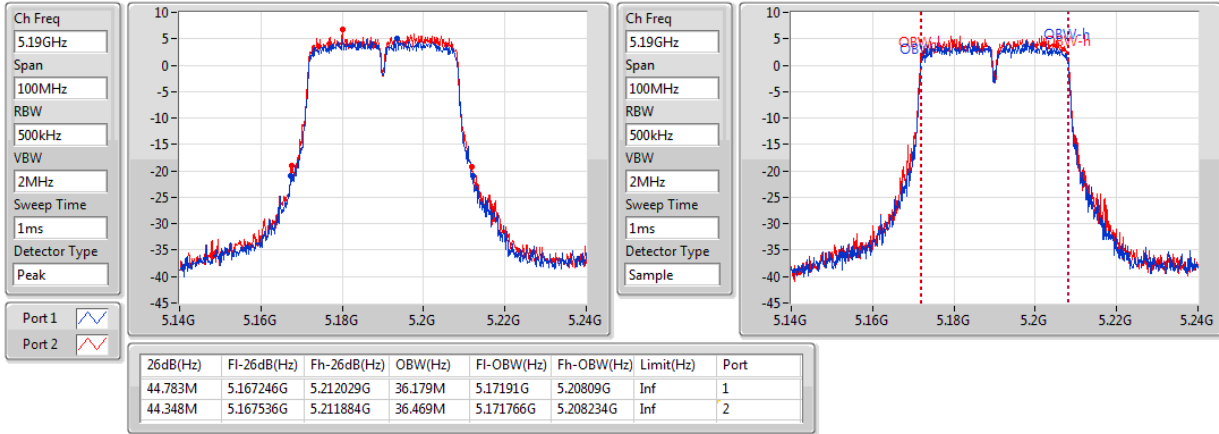
5825MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

EBW

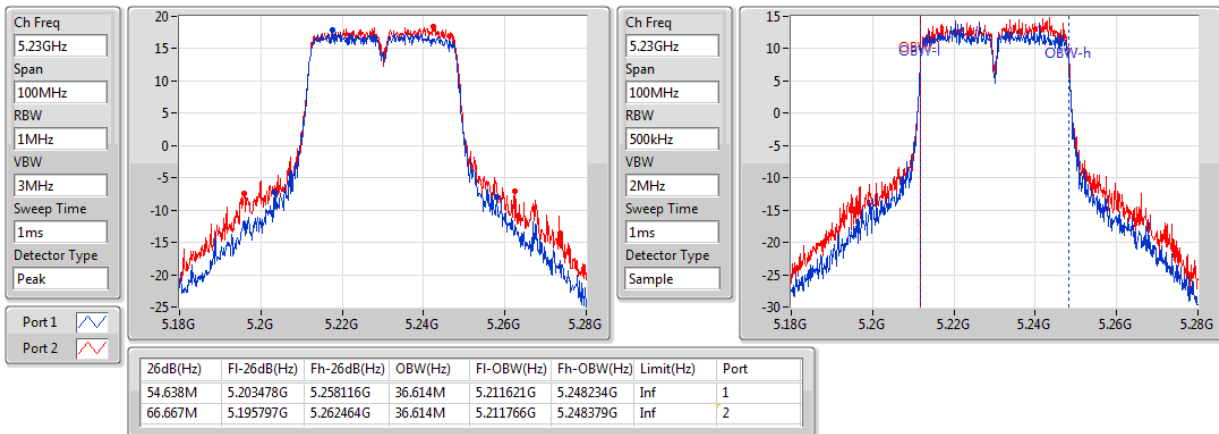
5190MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

EBW

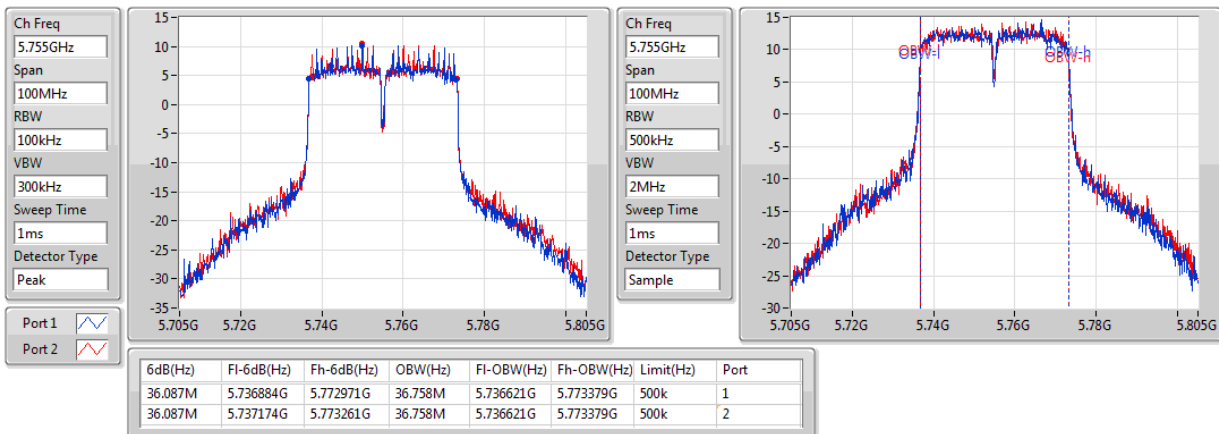
5230MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

EBW

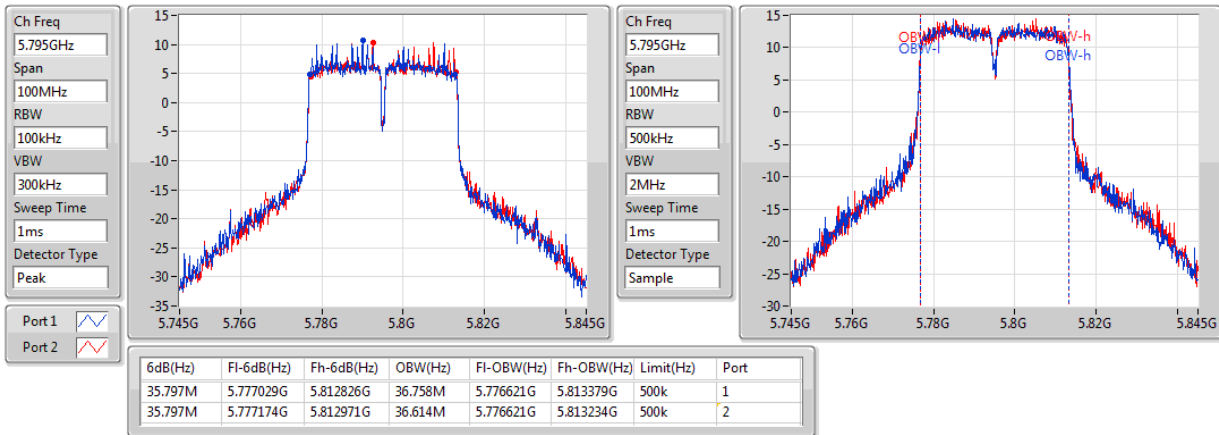
5755MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

EBW

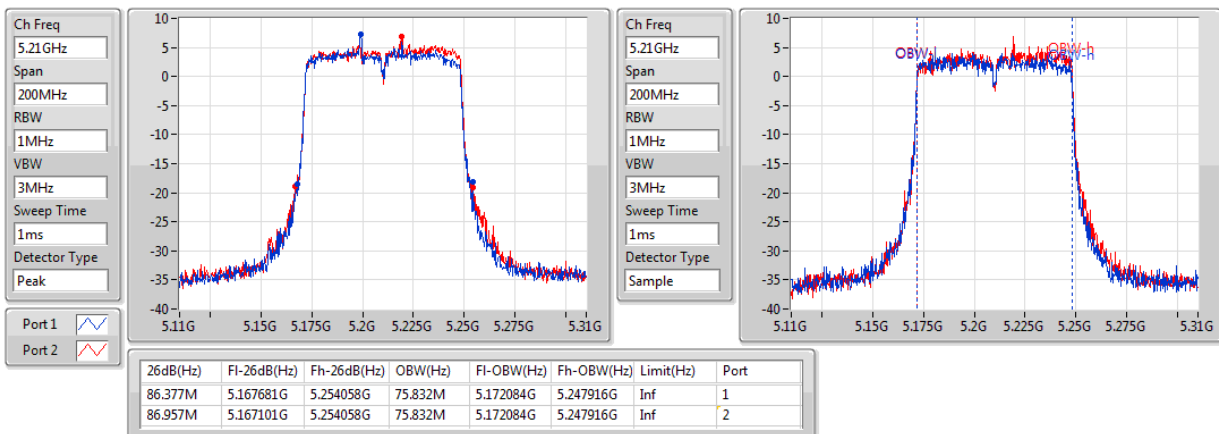
5795MHz



### 802.11ac VHT80\_Nss1,(MCS0)\_2TX

EBW

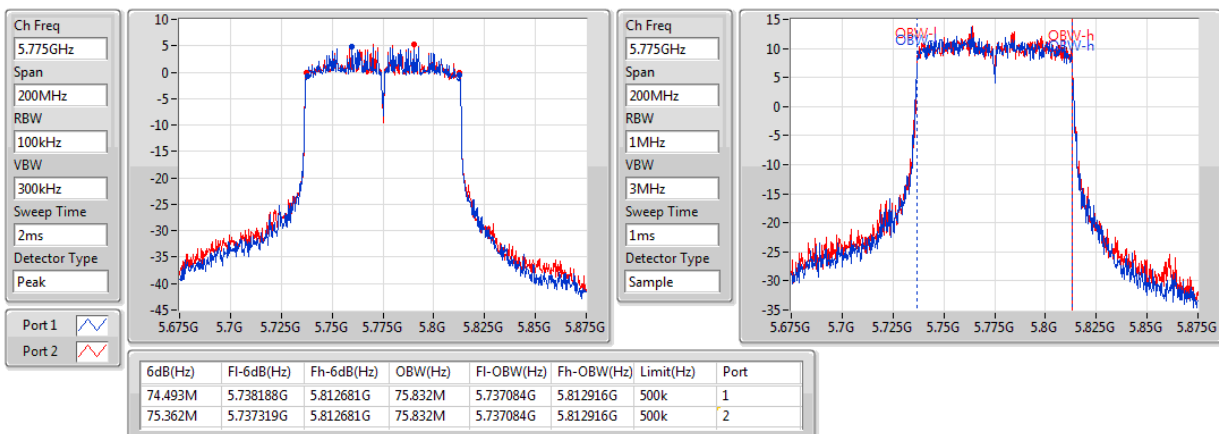
5210MHz



### 802.11ac VHT80\_Nss1,(MCS0)\_2TX

EBW

5775MHz



### 3.3 RF Output Power

#### 3.3.1 Limit of RF Output Power

| Frequency band 5150-5250 MHz        |                                    |                                                                                                                                                   |
|-------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Mode                      |                                    | Limit                                                                                                                                             |
| <input checked="" type="checkbox"/> | Outdoor access point               | Conducted Power: 1 W<br>The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm) |
| <input type="checkbox"/>            | Indoor access point                | Conducted Power: 1 W                                                                                                                              |
| <input type="checkbox"/>            | Fixed point-to-point access points | Conducted Power: 1 W                                                                                                                              |
| <input type="checkbox"/>            | Client devices                     | Conducted Power: 250 mW                                                                                                                           |

| Frequency Band (MHz)                            | Limit |
|-------------------------------------------------|-------|
| <input checked="" type="checkbox"/> 5725 ~ 5850 | 1 W   |

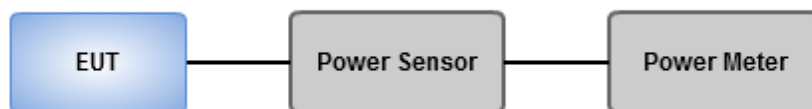
Note: "B" is the 26dB emission bandwidth in MHz.

#### 3.3.2 Test Procedures

##### Method PM-G (Measurement using a gated RF average power meter)

Measurements is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

#### 3.3.3 Test Setup



### 3.3.4 Test Result of Maximum Conducted Output Power

#### Summary

| Mode                              | Total Power<br>(dBm) | Total Power<br>(W) | EIRP<br>(dBm) | EIRP<br>(W) |
|-----------------------------------|----------------------|--------------------|---------------|-------------|
| 5.15-5.25GHz                      | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_2TX          | 27.39                | 0.54828            | 31.61         | 1.44877     |
| 802.11ac<br>VHT20_Nss1,(MCS0)_2TX | 27.51                | 0.56364            | 31.73         | 1.48936     |
| 802.11ac<br>VHT40_Nss1,(MCS0)_2TX | 26.74                | 0.47206            | 30.96         | 1.24738     |
| 802.11ac<br>VHT80_Nss1,(MCS0)_2TX | 16.97                | 0.04977            | 21.19         | 0.13152     |
| 5.725-5.85GHz                     | -                    | -                  | -             | -           |
| 802.11a_Nss1,(6Mbps)_2TX          | 27.31                | 0.53827            | 32.65         | 1.84077     |
| 802.11ac<br>VHT20_Nss1,(MCS0)_2TX | 27.31                | 0.53827            | 32.65         | 1.84077     |
| 802.11ac<br>VHT40_Nss1,(MCS0)_2TX | 27.21                | 0.52602            | 32.55         | 1.79887     |
| 802.11ac<br>VHT80_Nss1,(MCS0)_2TX | 24.53                | 0.28379            | 29.87         | 0.97051     |

## Result

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm) | Port 2<br>(dBm) | Total<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | EIRP<br>(dBm) | EIRP<br>Limit<br>(dBm) |
|--------------------------------|--------|-------------|-----------------|-----------------|-------------------------|-------------------------|---------------|------------------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 5180MHz                        | Pass   | 4.22        | 20.48           | 21.02           | 23.77                   | 30.00                   | 27.99         | 36.00                  |
| 5200MHz                        | Pass   | 4.22        | 24.24           | 24.52           | 27.39                   | 30.00                   | 31.61         | 36.00                  |
| 5240MHz                        | Pass   | 4.22        | 24.02           | 24.51           | 27.28                   | 30.00                   | 31.50         | 36.00                  |
| 5745MHz                        | Pass   | 5.34        | 24.03           | 24.56           | 27.31                   | 30.00                   | 32.65         | 36.00                  |
| 5785MHz                        | Pass   | 5.34        | 24.01           | 24.32           | 27.18                   | 30.00                   | 32.52         | 36.00                  |
| 5825MHz                        | Pass   | 5.34        | 24.05           | 24.18           | 27.13                   | 30.00                   | 32.47         | 36.00                  |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 5180MHz                        | Pass   | 4.22        | 20.35           | 20.65           | 23.51                   | 30.00                   | 27.73         | 36.00                  |
| 5200MHz                        | Pass   | 4.22        | 24.38           | 24.62           | 27.51                   | 30.00                   | 31.73         | 36.00                  |
| 5240MHz                        | Pass   | 4.22        | 24.03           | 24.52           | 27.29                   | 30.00                   | 31.51         | 36.00                  |
| 5745MHz                        | Pass   | 5.34        | 24.01           | 24.52           | 27.28                   | 30.00                   | 32.62         | 36.00                  |
| 5785MHz                        | Pass   | 5.34        | 24.04           | 24.54           | 27.31                   | 30.00                   | 32.65         | 36.00                  |
| 5825MHz                        | Pass   | 5.34        | 24.01           | 24.22           | 27.13                   | 30.00                   | 32.47         | 36.00                  |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 5190MHz                        | Pass   | 4.22        | 15.73           | 15.38           | 18.57                   | 30.00                   | 22.79         | 36.00                  |
| 5230MHz                        | Pass   | 4.22        | 23.41           | 24.02           | 26.74                   | 30.00                   | 30.96         | 36.00                  |
| 5755MHz                        | Pass   | 5.34        | 24.02           | 24.37           | 27.21                   | 30.00                   | 32.55         | 36.00                  |
| 5795MHz                        | Pass   | 5.34        | 24.01           | 24.24           | 27.14                   | 30.00                   | 32.48         | 36.00                  |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -      | -           | -               | -               | -                       | -                       | -             | -                      |
| 5210MHz                        | Pass   | 4.22        | 13.67           | 14.23           | 16.97                   | 30.00                   | 21.19         | 36.00                  |
| 5775MHz                        | Pass   | 5.34        | 21.42           | 21.61           | 24.53                   | 30.00                   | 29.87         | 36.00                  |

**DG** = Directional Gain; **Port X** = Port X output power

**Maximum e.i.r.p. at any elevation angle above 30 degrees**

**Result**

| Mode                                   | Result | Maximum<br>Gain<br>above 30°<br>(dBi) | Total Power<br>(dBm) | E.I.R.P<br>above 30°<br>(dBm) | EIRP Limit-<br>above 30°<br>(dBm) |
|----------------------------------------|--------|---------------------------------------|----------------------|-------------------------------|-----------------------------------|
| 802.11a_Nss1,(6Mbps)_2TX_5180MHz       | Pass   | -7.81                                 | 23.77                | 15.96                         | 21.00                             |
| 802.11a_Nss1,(6Mbps)_2TX_5200MHz       | Pass   | -7.81                                 | 27.39                | 19.58                         | 21.00                             |
| 802.11a_Nss1,(6Mbps)_2TX_5240MHz       | Pass   | -7.81                                 | 27.28                | 19.47                         | 21.00                             |
| 802.11ac VHT20_Nss1,(MCS0)_2TX_5180MHz | Pass   | -7.81                                 | 23.51                | 15.70                         | 21.00                             |
| 802.11ac VHT20_Nss1,(MCS0)_2TX_5200MHz | Pass   | -7.81                                 | 27.51                | 19.70                         | 21.00                             |
| 802.11ac VHT20_Nss1,(MCS0)_2TX_5240MHz | Pass   | -7.81                                 | 27.29                | 19.48                         | 21.00                             |
| 802.11ac VHT40_Nss1,(MCS0)_2TX_5190MHz | Pass   | -7.81                                 | 18.57                | 10.76                         | 21.00                             |
| 802.11ac VHT40_Nss1,(MCS0)_2TX_5230MHz | Pass   | -7.81                                 | 26.74                | 18.93                         | 21.00                             |
| 802.11ac VHT80_Nss1,(MCS0)_2TX_5210MHz | Pass   | -7.81                                 | 16.97                | 9.16                          | 21.00                             |

### 3.4 Peak Power Spectral Density

#### 3.4.1 Limit of Peak Power Spectral Density

| Frequency band 5150-5250 MHz        |                                    |              |
|-------------------------------------|------------------------------------|--------------|
| Operating Mode                      |                                    | Limit        |
| <input checked="" type="checkbox"/> | Outdoor access point               | 17 dBm / MHz |
| <input type="checkbox"/>            | Indoor access point                | 17 dBm / MHz |
| <input type="checkbox"/>            | Fixed point-to-point access points | 17 dBm / MHz |
| <input type="checkbox"/>            | Client devices                     | 11 dBm / MHz |

| Frequency Band (MHz)                |             | Limit           |
|-------------------------------------|-------------|-----------------|
| <input checked="" type="checkbox"/> | 5725 ~ 5850 | 30 dBm /500 kHz |

### 3.4.2 Test Procedures

#### For 5150 ~ 5250 MHz

Duty cycle  $\geq 98\%$

1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle  $< 98\%$

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time  $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$ .
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add  $10 \log(1/x)$ , where x is the duty cycle.

#### For 5725 ~ 5850 MHz

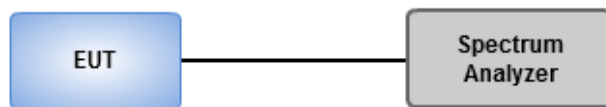
Duty cycle  $\geq 98\%$

1. Set RBW = 500 kHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle  $< 98\%$

1. Set RBW = 500 kHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time  $\geq 10 \times (\text{number of points in sweep}) \times (\text{total on/off period of the transmitted signal})$ .
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add  $10 \log(1/x)$ , where x is the duty cycle.

### 3.4.3 Test Setup



### 3.4.4 Test Result of Peak Power Spectral Density

#### Summary

| Mode                           | PD<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) |
|--------------------------------|-----------------|----------------------|
| 5.15-5.25GHz                   | -               | -                    |
| 802.11a_Nss1,(6Mbps)_2TX       | 14.40           | 21.63                |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 14.12           | 21.35                |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 10.78           | 18.01                |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -2.32           | 4.91                 |
| 5.725-5.85GHz                  | -               | -                    |
| 802.11a_Nss1,(6Mbps)_2TX       | 12.68           | 21.03                |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | 12.28           | 20.63                |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | 9.48            | 17.83                |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | 3.80            | 12.15                |

**RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

## Result

| Mode                           | Result | DG<br>(dBi) | Port 1<br>(dBm/RBW) | Port 2<br>(dBm/RBW) | PD<br>(dBm/RBW) | PD Limit<br>(dBm/RBW) | EIRP PD<br>(dBm/RBW) | EIRP PD<br>Limit<br>(dBm/RBW) |
|--------------------------------|--------|-------------|---------------------|---------------------|-----------------|-----------------------|----------------------|-------------------------------|
| 802.11a_Nss1,(6Mbps)_2TX       | -      | -           | -                   | -                   | -               | -                     | -                    | -                             |
| 5180MHz                        | Pass   | 7.23        | 7.49                | 8.15                | 10.84           | 15.77                 | 18.07                | 23.00                         |
| 5200MHz                        | Pass   | 7.23        | 11.56               | 11.26               | 14.40           | 15.77                 | 21.63                | 23.00                         |
| 5240MHz                        | Pass   | 7.23        | 11.23               | 11.71               | 14.37           | 15.77                 | 21.60                | 23.00                         |
| 5745MHz                        | Pass   | 8.35        | 9.32                | 9.84                | 12.55           | 27.65                 | 20.90                | 36.00                         |
| 5785MHz                        | Pass   | 8.35        | 9.59                | 9.85                | 12.68           | 27.65                 | 21.03                | 36.00                         |
| 5825MHz                        | Pass   | 8.35        | 9.56                | 9.68                | 12.58           | 27.65                 | 20.93                | 36.00                         |
| 802.11ac VHT20_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                             |
| 5180MHz                        | Pass   | 7.23        | 6.77                | 7.14                | 9.87            | 15.77                 | 17.10                | 23.00                         |
| 5200MHz                        | Pass   | 7.23        | 11.34               | 10.89               | 14.12           | 15.77                 | 21.35                | 23.00                         |
| 5240MHz                        | Pass   | 7.23        | 11.07               | 11.36               | 14.09           | 15.77                 | 21.32                | 23.00                         |
| 5745MHz                        | Pass   | 8.35        | 9.00                | 9.51                | 12.21           | 27.65                 | 20.56                | 36.00                         |
| 5785MHz                        | Pass   | 8.35        | 9.24                | 9.33                | 12.25           | 27.65                 | 20.60                | 36.00                         |
| 5825MHz                        | Pass   | 8.35        | 9.34                | 9.29                | 12.28           | 27.65                 | 20.63                | 36.00                         |
| 802.11ac VHT40_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                             |
| 5190MHz                        | Pass   | 7.23        | -1.36               | -0.68               | 1.96            | 15.77                 | 9.19                 | 23.00                         |
| 5230MHz                        | Pass   | 7.23        | 7.44                | 8.19                | 10.78           | 15.77                 | 18.01                | 23.00                         |
| 5755MHz                        | Pass   | 8.35        | 6.29                | 6.51                | 9.40            | 27.65                 | 17.75                | 36.00                         |
| 5795MHz                        | Pass   | 8.35        | 6.45                | 6.54                | 9.48            | 27.65                 | 17.83                | 36.00                         |
| 802.11ac VHT80_Nss1,(MCS0)_2TX | -      | -           | -                   | -                   | -               | -                     | -                    | -                             |
| 5210MHz                        | Pass   | 7.23        | -5.64               | -4.87               | -2.32           | 15.77                 | 4.91                 | 23.00                         |
| 5775MHz                        | Pass   | 8.35        | 0.71                | 0.91                | 3.80            | 27.65                 | 12.15                | 36.00                         |

**DG** = Directional Gain; **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;  
**PD** = trace bin-by-bin of each transmits port summing can be performed maximum power density;  
**Port X** = Port Xpower density;  
 Test results of each port are measured value with duty factor

### Note:

#### 5150-5250MHz:

Directional gain =  $4.22 + 10 \cdot \log(2/1) = 7.23 \text{ dBi} > 6 \text{ dBi}$ .  
 Limit shall be reduced to 17 dBm – (7.23 dBi – 6 dBi) = 15.77 dBm

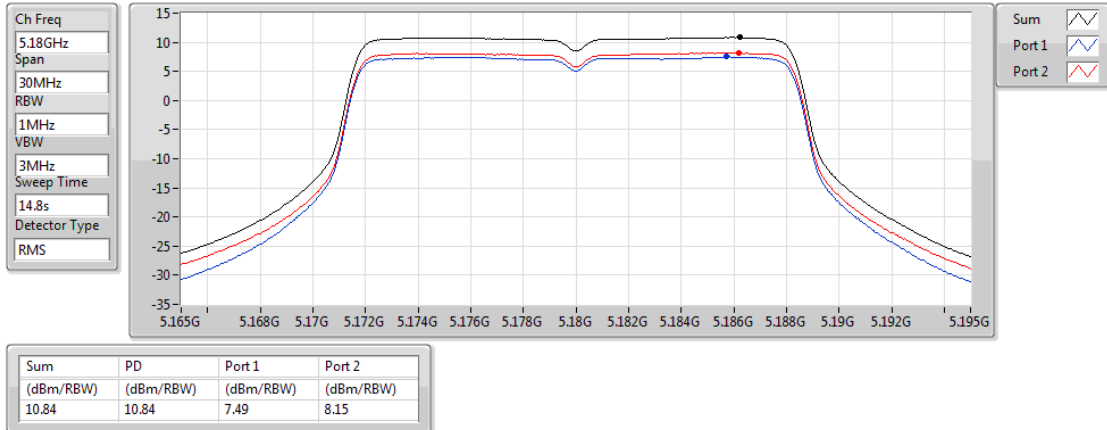
#### 5745-5825MHz:

Directional gain =  $5.34 + 10 \cdot \log(2/1) = 8.35 \text{ dBi} > 6 \text{ dBi}$ .  
 Limit shall be reduced to 30 dBm – (8.35 dBi – 6 dBi) = 27.65 dBm

### 802.11a\_Nss1,(6Mbps)\_2TX

PSD

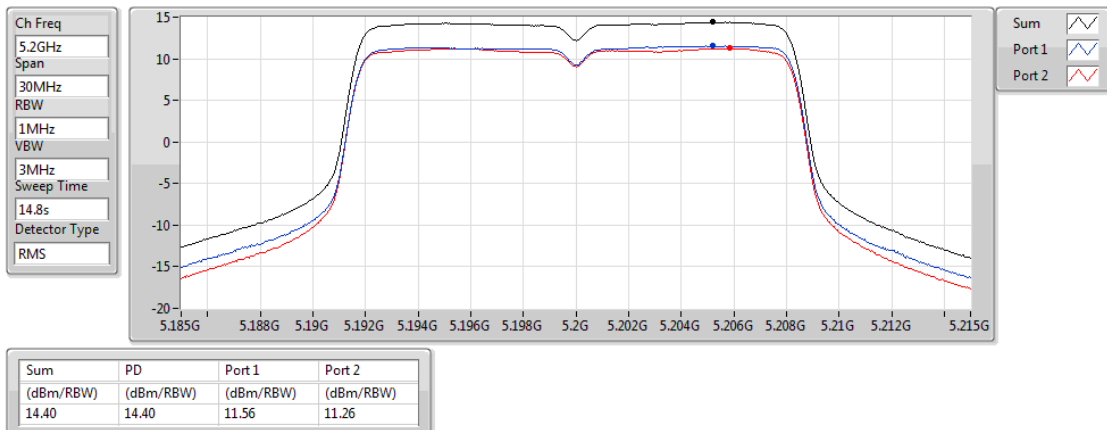
5180MHz



### 802.11a\_Nss1,(6Mbps)\_2TX

PSD

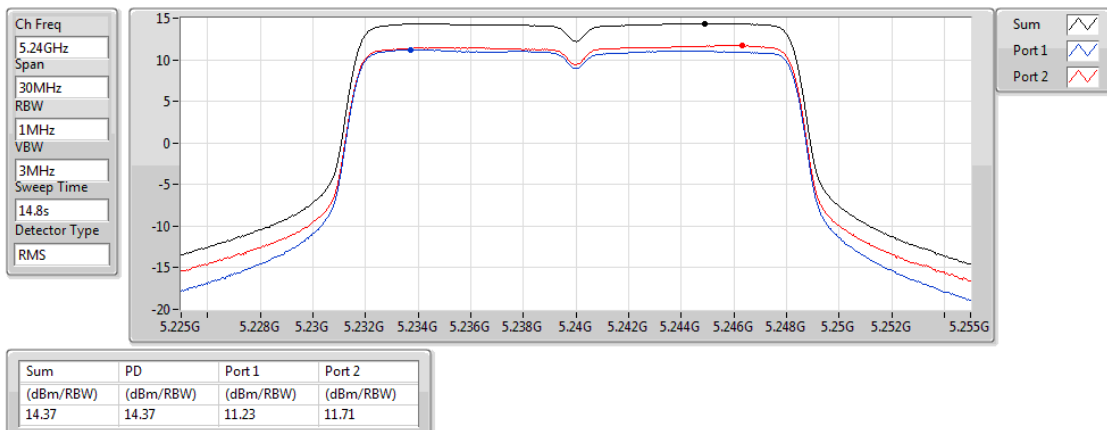
5200MHz



### 802.11a\_Nss1,(6Mbps)\_2TX

PSD

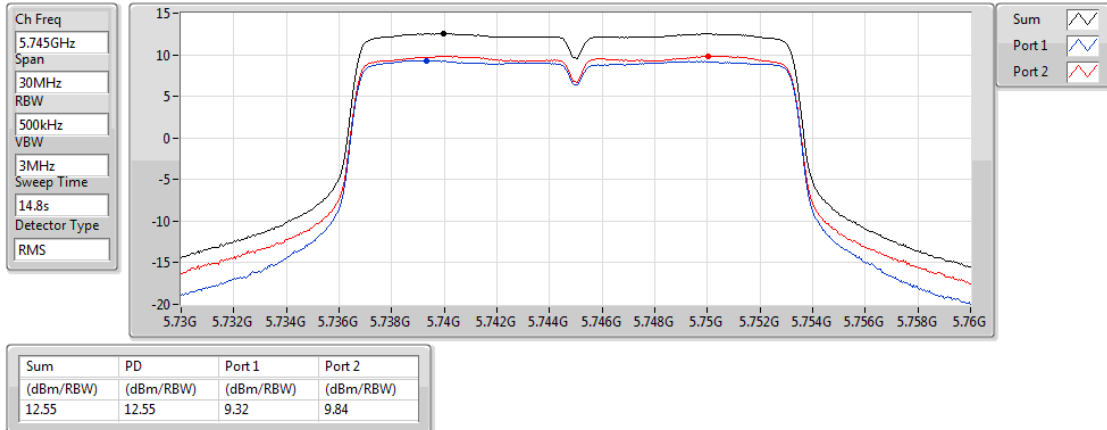
5240MHz



### 802.11a\_Nss1,(6Mbps)\_2TX

PSD

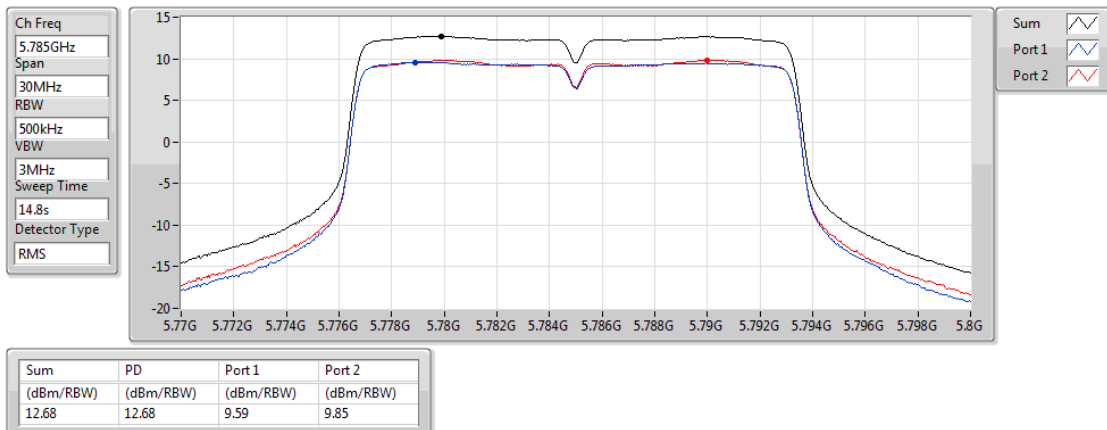
5745MHz



### 802.11a\_Nss1,(6Mbps)\_2TX

PSD

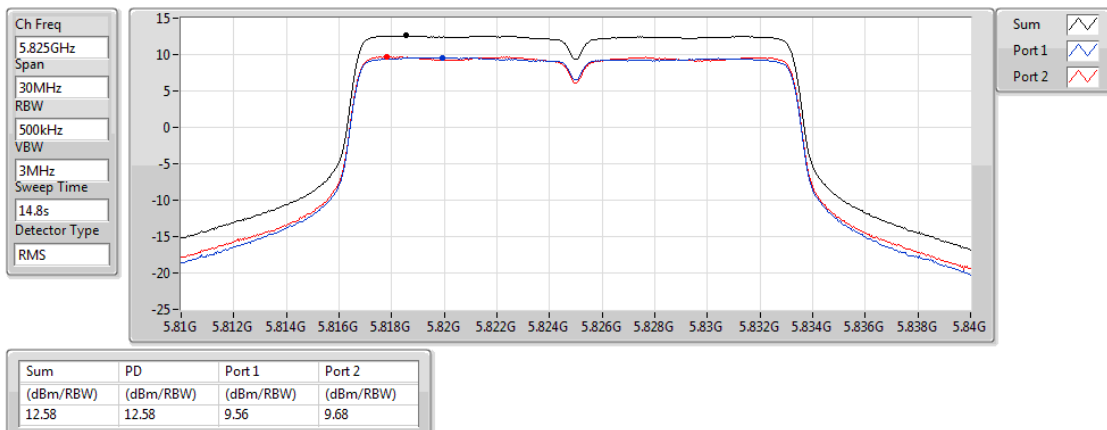
5785MHz



### 802.11a\_Nss1,(6Mbps)\_2TX

PSD

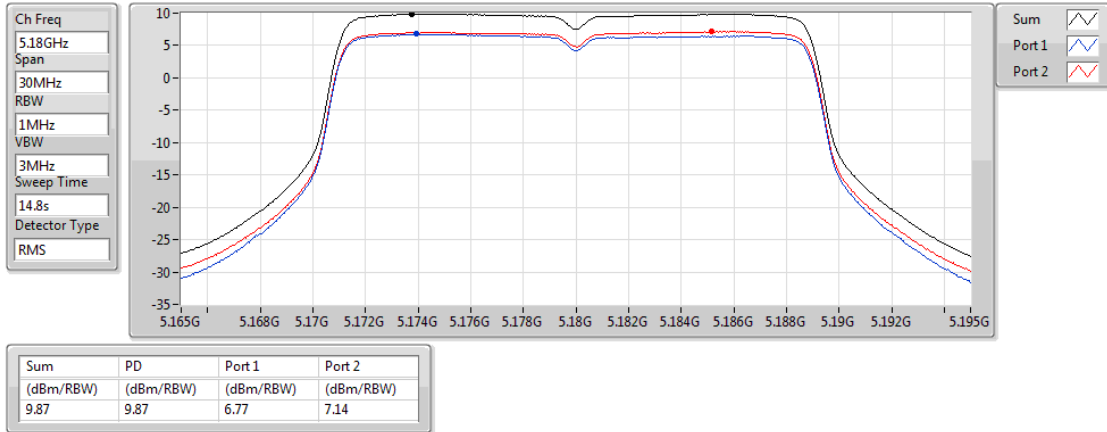
5825MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

PSD

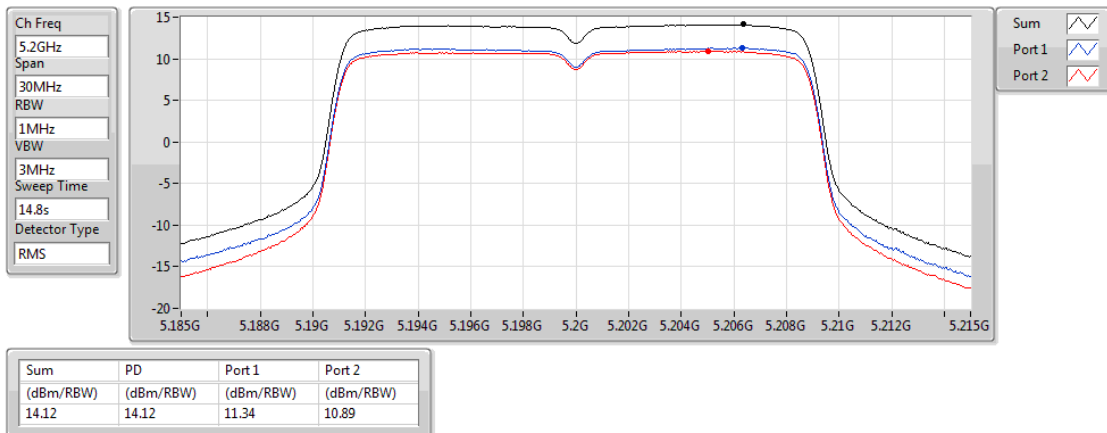
5180MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

PSD

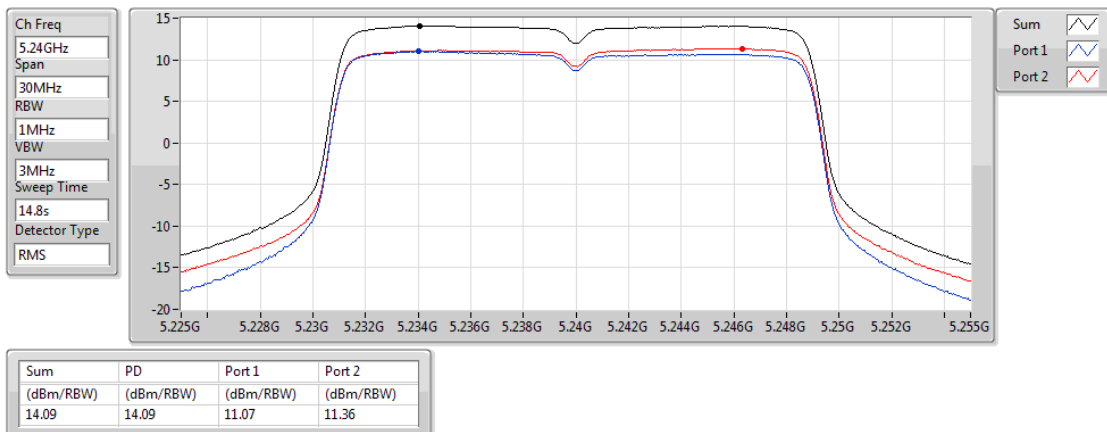
5200MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

PSD

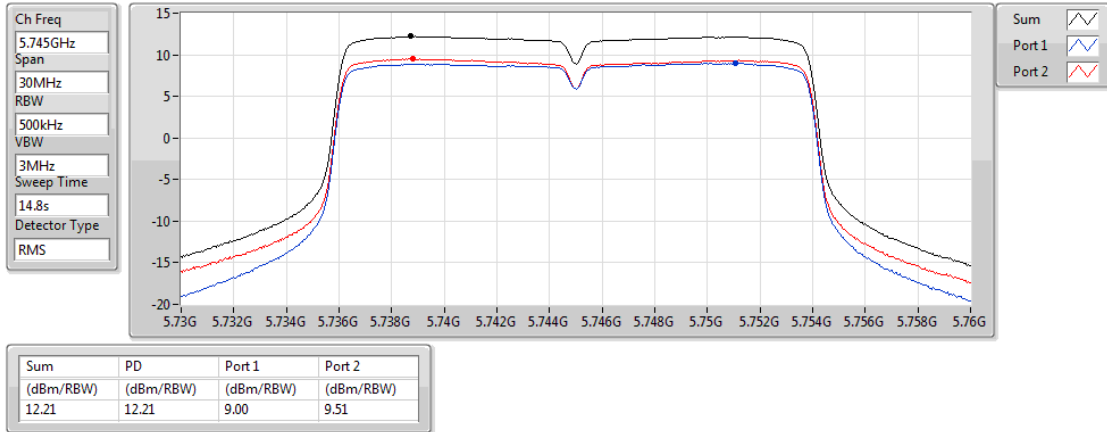
5240MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

PSD

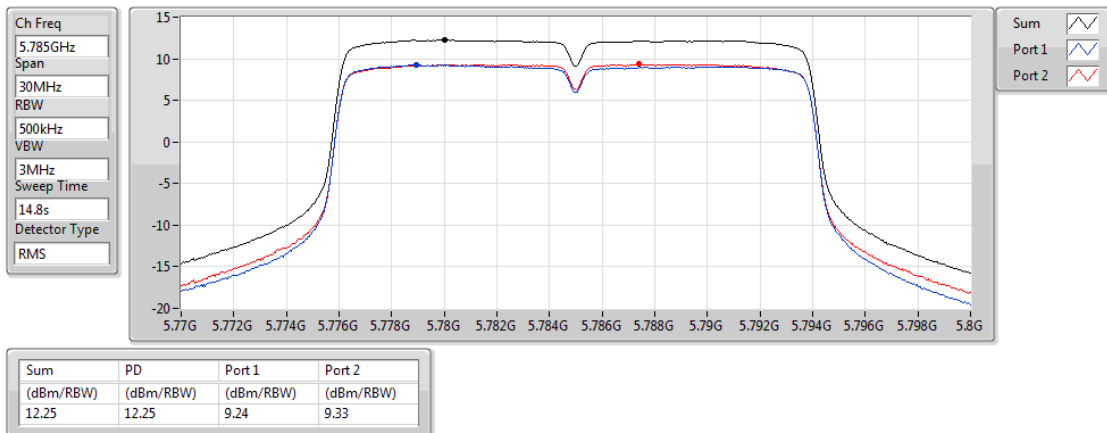
5745MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

PSD

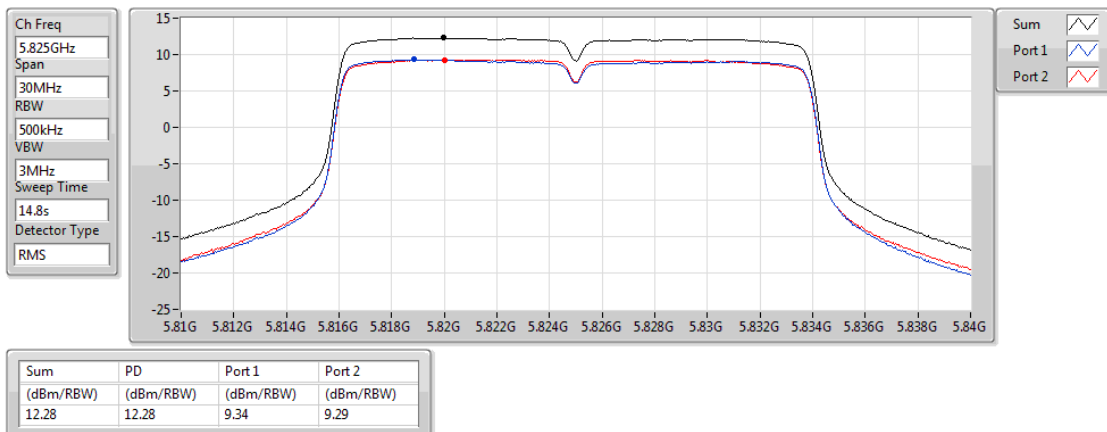
5785MHz



### 802.11ac VHT20\_Nss1,(MCS0)\_2TX

PSD

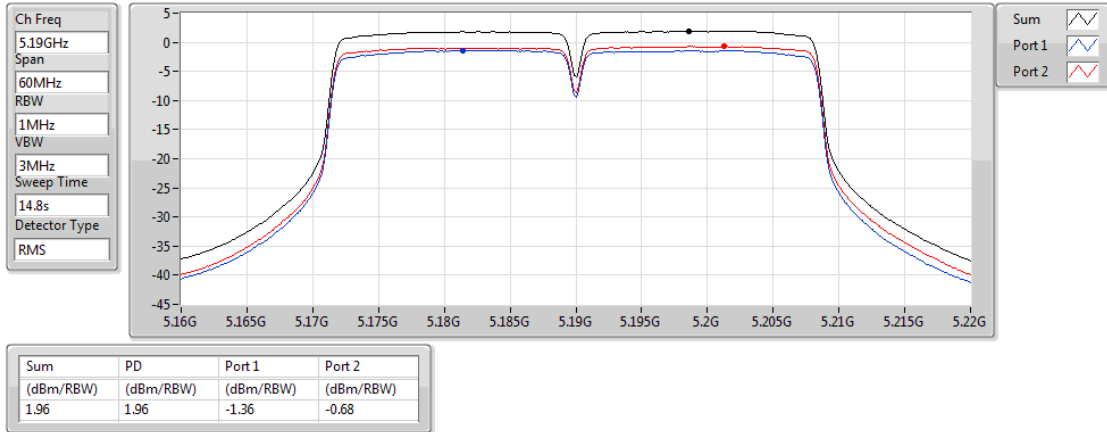
5825MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

PSD

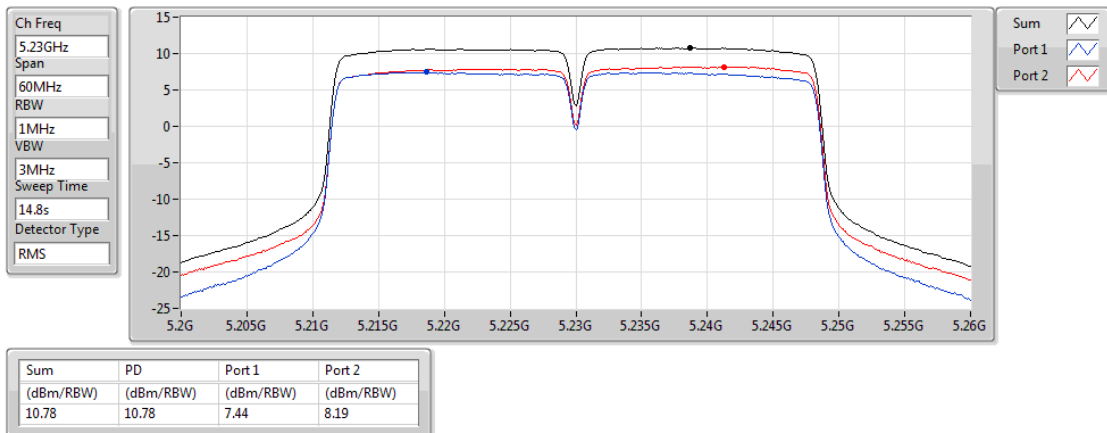
5190MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

PSD

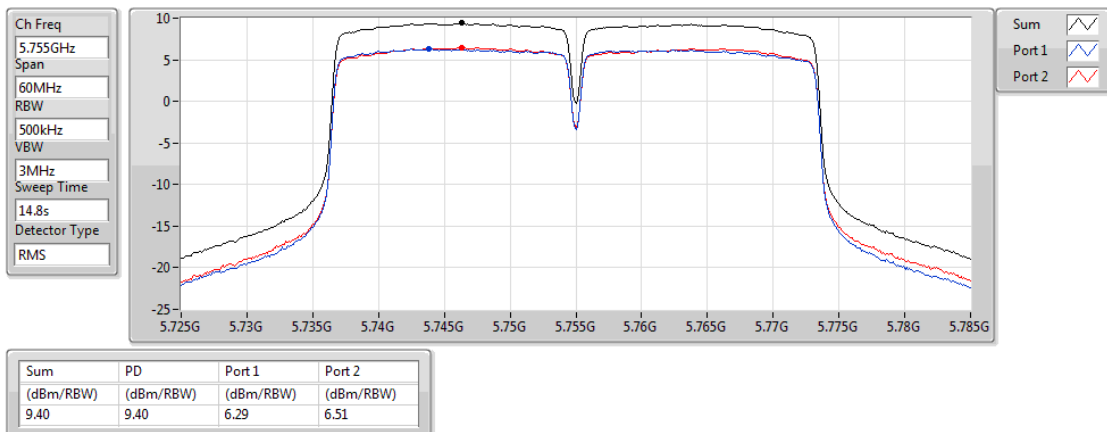
5230MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

PSD

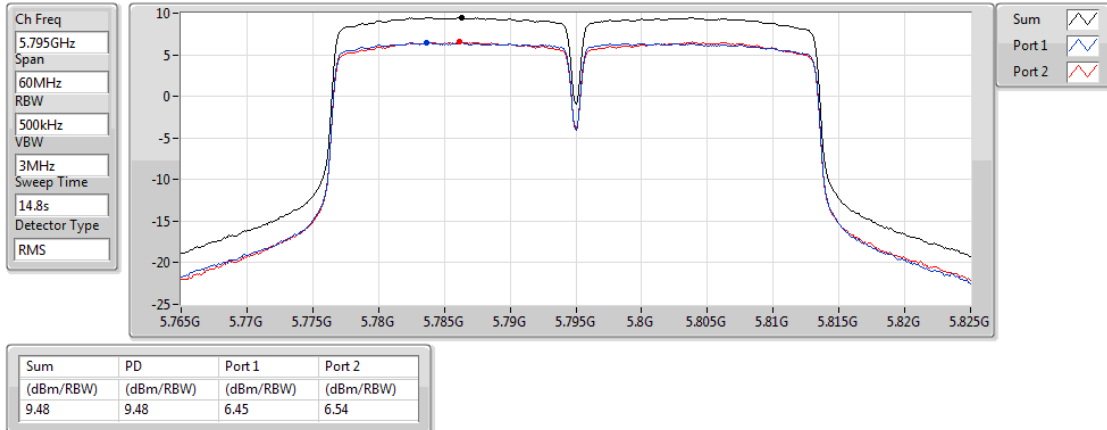
5755MHz



### 802.11ac VHT40\_Nss1,(MCS0)\_2TX

PSD

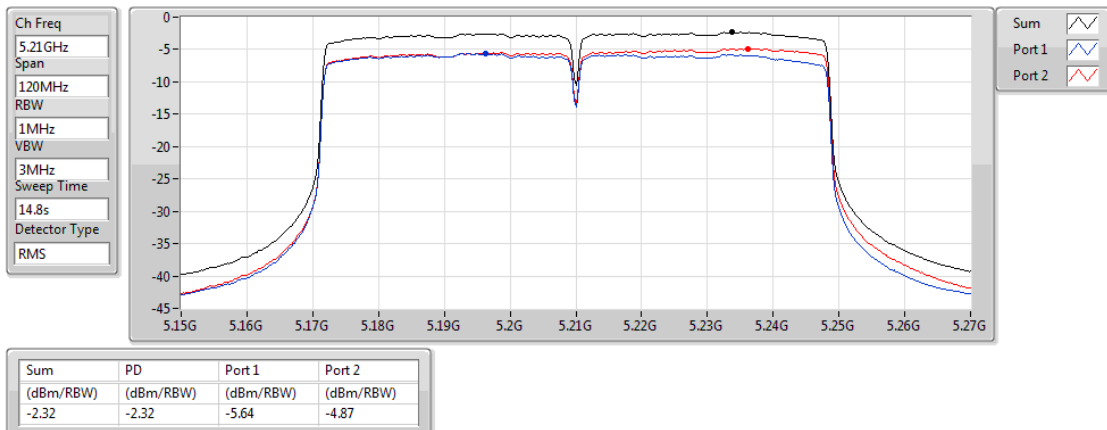
5795MHz



### 802.11ac VHT80\_Nss1,(MCS0)\_2TX

PSD

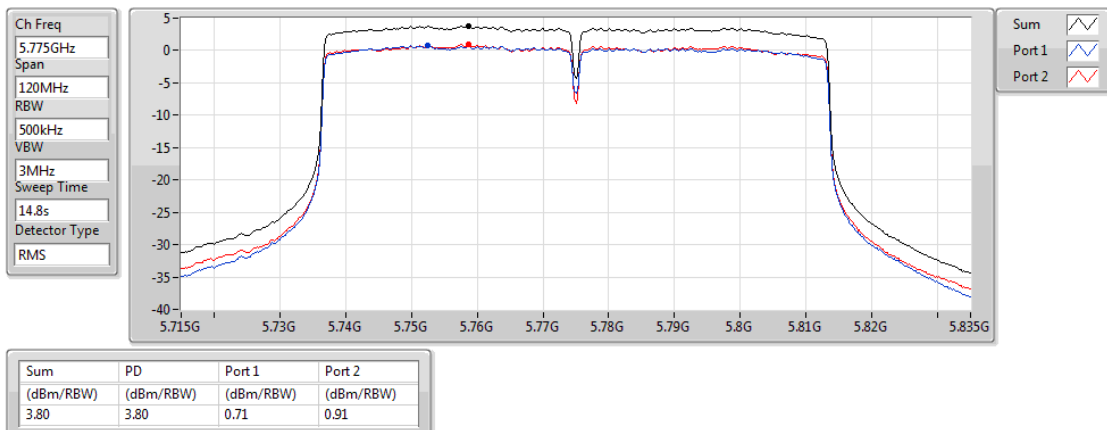
5210MHz



### 802.11ac VHT80\_Nss1,(MCS0)\_2TX

PSD

5775MHz



### 3.5 Transmitter Radiated and Band Edge Emissions

#### 3.5.1 Limit of Transmitter Radiated and Band Edge Emissions

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

**Note 1:**  
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

**Note 2:**  
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

| Un-restricted band emissions above 1GHz Limit |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Band                                | Limit                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 5.15 - 5.25 GHz                               | e.i.r.p. -27 dBm [68.2 dBuV/m@3m]                                                                                                                                                                                                                                                                                                                                                                                               |
| 5.725 - 5.850 GHz                             | All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. |

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

### 3.5.2 Test Procedures

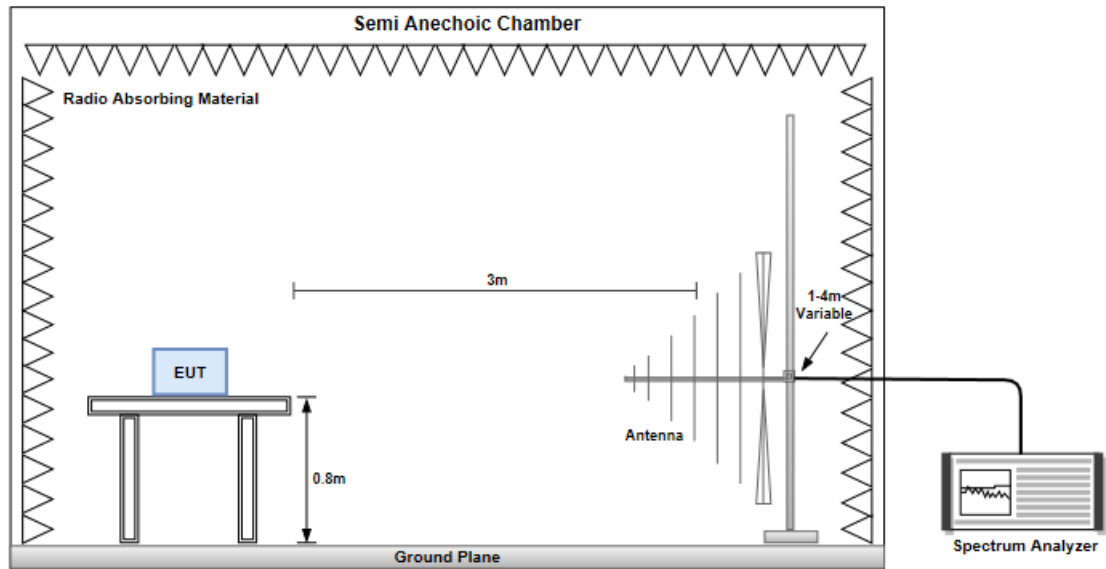
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

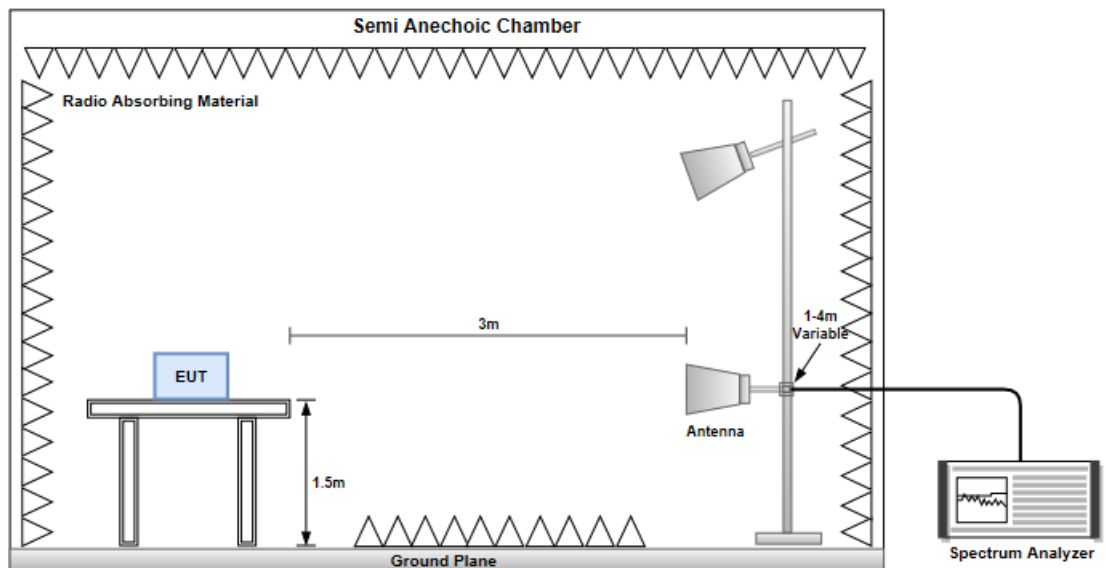
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

### 3.5.3 Test Setup

#### Radiated Emissions below 1 GHz

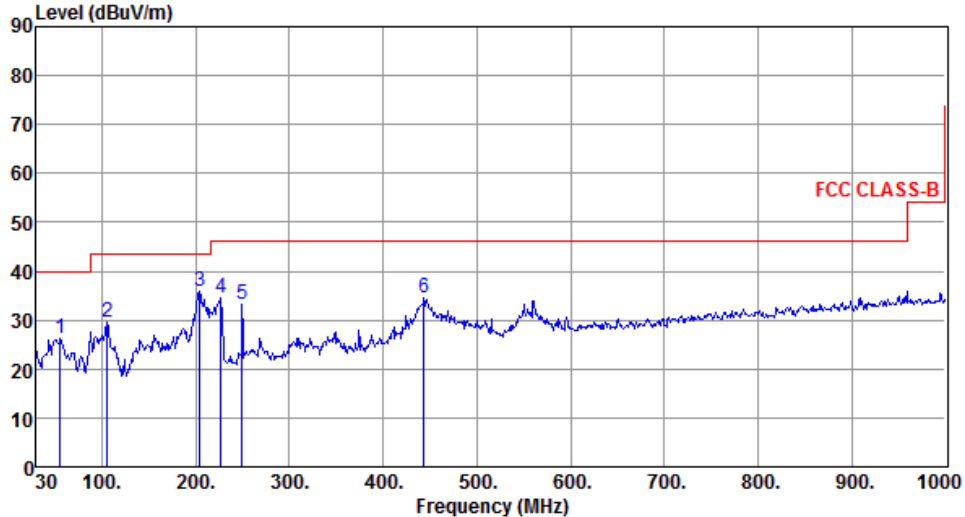


#### Radiated Emissions above 1 GHz



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

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz) | 5200 |
| Polarization | Horizontal |                  |      |

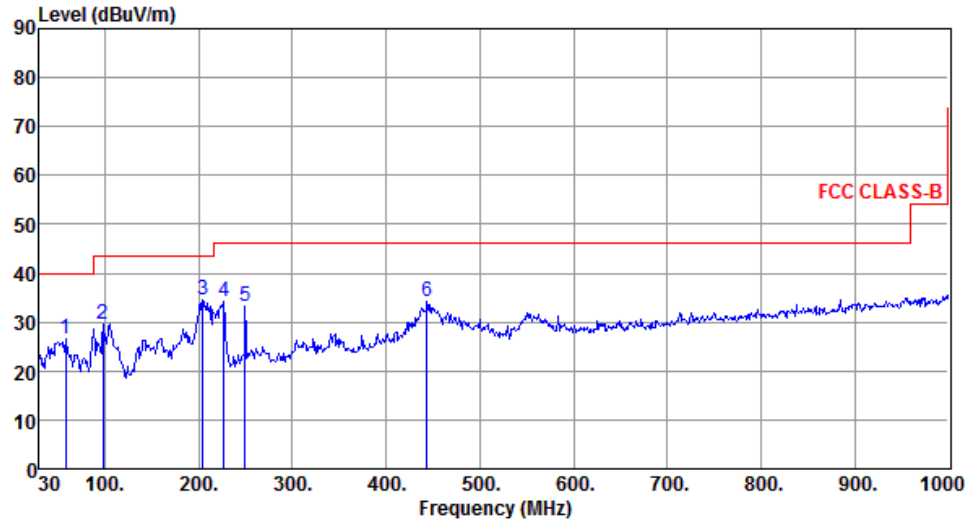
  


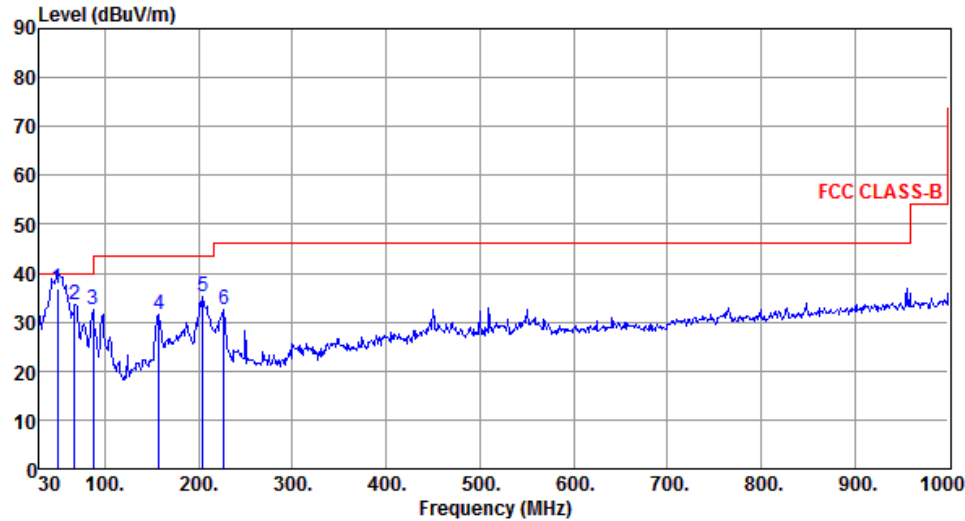
The graph displays the radiated unwanted emissions of a transmitter below 1 GHz. The y-axis represents the emission level in dBuV/m, ranging from 0 to 90. The x-axis represents the frequency in MHz, ranging from 30 to 1000. A red line indicates the FCC CLASS-B limit, which is 40 dBuV/m from 30 MHz to 100 MHz, 45 dBuV/m from 100 MHz to 1000 MHz, and 55 dBuV/m above 1000 MHz. A blue line shows the measured emission level, with six specific peaks labeled 1 through 6. The emission level is generally below the limit, with a margin of at least 7.69 dB at 204.60 MHz.

|   | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 55.22        | 26.12                       | 40.00           | -13.88       | 34.51                 | -8.39        | Peak   | ---               | ---                  |
| 2 | 105.66       | 29.52                       | 43.50           | -13.98       | 41.91                 | -12.39       | Peak   | ---               | ---                  |
| 3 | 204.60       | 35.81                       | 43.50           | -7.69        | 46.68                 | -10.87       | Peak   | ---               | ---                  |
| 4 | 226.91       | 34.52                       | 46.00           | -11.48       | 44.86                 | -10.34       | Peak   | ---               | ---                  |
| 5 | 249.22       | 33.11                       | 46.00           | -12.89       | 42.30                 | -9.19        | Peak   | ---               | ---                  |
| 6 | 443.22       | 34.40                       | 46.00           | -11.60       | 38.37                 | -3.97        | Peak   | ---               | ---                  |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).  
 Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

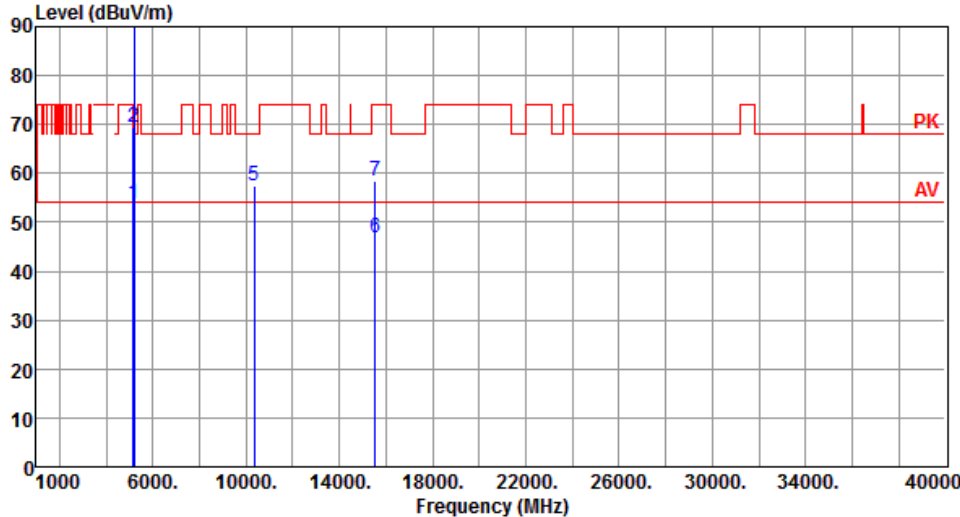
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 11a          | Test Freq. (MHz)            | 5745            |              |                       |                             |                 |                   |                       |              |        |                   |                      |   |       |       |       |        |       |       |      |     |     |   |       |       |       |        |       |        |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |
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| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Horizontal   |                             |                 |              |                       |                             |                 |                   |                       |              |        |                   |                      |   |       |       |       |        |       |       |      |     |     |   |       |       |       |        |       |        |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |
| <div><div><div>Level (dBuV/m)</div><div></div><div>FCC CLASS-B</div></div><div><table><tr><th></th><th>Freq.<br/>MHz</th><th>Emission<br/>level<br/>dBuV/m</th><th>Limit<br/>dBuV/m</th><th>Margin<br/>dB</th><th>SA<br/>reading<br/>dBuV</th><th>Factor<br/>dB</th><th>Remark</th><th>ANT<br/>High<br/>cm</th><th>Turn<br/>Table<br/>deg</th></tr><tr><td>1</td><td>58.13</td><td>26.60</td><td>40.00</td><td>-13.40</td><td>35.20</td><td>-8.60</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>97.90</td><td>29.52</td><td>43.50</td><td>-13.98</td><td>43.11</td><td>-13.59</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>204.60</td><td>34.70</td><td>43.50</td><td>-8.80</td><td>45.57</td><td>-10.87</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>226.91</td><td>34.11</td><td>46.00</td><td>-11.89</td><td>44.45</td><td>-10.34</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>249.22</td><td>33.15</td><td>46.00</td><td>-12.85</td><td>42.34</td><td>-9.19</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>443.22</td><td>34.12</td><td>46.00</td><td>-11.88</td><td>38.09</td><td>-3.97</td><td>Peak</td><td>---</td><td>---</td></tr></table></div></div> |              |                             |                 |              | Freq.<br>MHz          | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB      | SA<br>reading<br>dBuV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg | 1 | 58.13 | 26.60 | 40.00 | -13.40 | 35.20 | -8.60 | Peak | --- | --- | 2 | 97.90 | 29.52 | 43.50 | -13.98 | 43.11 | -13.59 | Peak | --- | --- | 3 | 204.60 | 34.70 | 43.50 | -8.80 | 45.57 | -10.87 | Peak | --- | --- | 4 | 226.91 | 34.11 | 46.00 | -11.89 | 44.45 | -10.34 | Peak | --- | --- | 5 | 249.22 | 33.15 | 46.00 | -12.85 | 42.34 | -9.19 | Peak | --- | --- | 6 | 443.22 | 34.12 | 46.00 | -11.88 | 38.09 | -3.97 | Peak | --- | --- |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB                | Remark          | ANT<br>High<br>cm | Turn<br>Table<br>deg  |              |        |                   |                      |   |       |       |       |        |       |       |      |     |     |   |       |       |       |        |       |        |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 58.13        | 26.60                       | 40.00           | -13.40       | 35.20                 | -8.60                       | Peak            | ---               | ---                   |              |        |                   |                      |   |       |       |       |        |       |       |      |     |     |   |       |       |       |        |       |        |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 97.90        | 29.52                       | 43.50           | -13.98       | 43.11                 | -13.59                      | Peak            | ---               | ---                   |              |        |                   |                      |   |       |       |       |        |       |       |      |     |     |   |       |       |       |        |       |        |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 204.60       | 34.70                       | 43.50           | -8.80        | 45.57                 | -10.87                      | Peak            | ---               | ---                   |              |        |                   |                      |   |       |       |       |        |       |       |      |     |     |   |       |       |       |        |       |        |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 226.91       | 34.11                       | 46.00           | -11.89       | 44.45                 | -10.34                      | Peak            | ---               | ---                   |              |        |                   |                      |   |       |       |       |        |       |       |      |     |     |   |       |       |       |        |       |        |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 249.22       | 33.15                       | 46.00           | -12.85       | 42.34                 | -9.19                       | Peak            | ---               | ---                   |              |        |                   |                      |   |       |       |       |        |       |       |      |     |     |   |       |       |       |        |       |        |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 443.22       | 34.12                       | 46.00           | -11.88       | 38.09                 | -3.97                       | Peak            | ---               | ---                   |              |        |                   |                      |   |       |       |       |        |       |       |      |     |     |   |       |       |       |        |       |        |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |
| <div>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)<br/>*Factor includes antenna factor , cable loss and amplifier gain<br/>Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).<br/>Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |                             |                 |              |                       |                             |                 |                   |                       |              |        |                   |                      |   |       |       |       |        |       |       |      |     |     |   |       |       |       |        |       |        |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |        |       |       |      |     |     |

| Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 11a          | Test Freq. (MHz)            | 5745            |              |                       |                             |                 |                   |                       |              |        |                   |                      |   |       |       |       |       |       |       |    |     |    |   |       |       |       |       |       |        |      |     |     |   |       |       |       |       |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |        |      |     |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------|-----------------|--------------|-----------------------|-----------------------------|-----------------|-------------------|-----------------------|--------------|--------|-------------------|----------------------|---|-------|-------|-------|-------|-------|-------|----|-----|----|---|-------|-------|-------|-------|-------|--------|------|-----|-----|---|-------|-------|-------|-------|-------|--------|------|-----|-----|---|--------|-------|-------|--------|-------|-------|------|-----|-----|---|--------|-------|-------|-------|-------|--------|------|-----|-----|---|--------|-------|-------|--------|-------|--------|------|-----|-----|
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Vertical     |                             |                 |              |                       |                             |                 |                   |                       |              |        |                   |                      |   |       |       |       |       |       |       |    |     |    |   |       |       |       |       |       |        |      |     |     |   |       |       |       |       |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |        |      |     |     |
| <div><div><div>Level (dBuV/m)</div><div></div></div><table><tr><th></th><th>Freq.<br/>MHz</th><th>Emission<br/>level<br/>dBuV/m</th><th>Limit<br/>dBuV/m</th><th>Margin<br/>dB</th><th>SA<br/>reading<br/>dBuV</th><th>Factor<br/>dB</th><th>Remark</th><th>ANT<br/>High<br/>cm</th><th>Turn<br/>Table<br/>deg</th></tr><tr><td>1</td><td>49.40</td><td>36.75</td><td>40.00</td><td>-3.25</td><td>44.74</td><td>-7.99</td><td>QP</td><td>100</td><td>16</td></tr><tr><td>2</td><td>67.83</td><td>33.59</td><td>40.00</td><td>-6.41</td><td>43.76</td><td>-10.17</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>87.23</td><td>32.43</td><td>40.00</td><td>-7.57</td><td>46.41</td><td>-13.98</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>158.04</td><td>31.65</td><td>43.50</td><td>-11.85</td><td>39.74</td><td>-8.09</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>204.60</td><td>35.19</td><td>43.50</td><td>-8.31</td><td>46.06</td><td>-10.87</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>226.91</td><td>32.40</td><td>46.00</td><td>-13.60</td><td>42.74</td><td>-10.34</td><td>Peak</td><td>---</td><td>---</td></tr></table></div> |              |                             |                 |              | Freq.<br>MHz          | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB      | SA<br>reading<br>dBuV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg | 1 | 49.40 | 36.75 | 40.00 | -3.25 | 44.74 | -7.99 | QP | 100 | 16 | 2 | 67.83 | 33.59 | 40.00 | -6.41 | 43.76 | -10.17 | Peak | --- | --- | 3 | 87.23 | 32.43 | 40.00 | -7.57 | 46.41 | -13.98 | Peak | --- | --- | 4 | 158.04 | 31.65 | 43.50 | -11.85 | 39.74 | -8.09 | Peak | --- | --- | 5 | 204.60 | 35.19 | 43.50 | -8.31 | 46.06 | -10.87 | Peak | --- | --- | 6 | 226.91 | 32.40 | 46.00 | -13.60 | 42.74 | -10.34 | Peak | --- | --- |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB                | Remark          | ANT<br>High<br>cm | Turn<br>Table<br>deg  |              |        |                   |                      |   |       |       |       |       |       |       |    |     |    |   |       |       |       |       |       |        |      |     |     |   |       |       |       |       |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |        |      |     |     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 49.40        | 36.75                       | 40.00           | -3.25        | 44.74                 | -7.99                       | QP              | 100               | 16                    |              |        |                   |                      |   |       |       |       |       |       |       |    |     |    |   |       |       |       |       |       |        |      |     |     |   |       |       |       |       |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |        |      |     |     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 67.83        | 33.59                       | 40.00           | -6.41        | 43.76                 | -10.17                      | Peak            | ---               | ---                   |              |        |                   |                      |   |       |       |       |       |       |       |    |     |    |   |       |       |       |       |       |        |      |     |     |   |       |       |       |       |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |        |      |     |     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 87.23        | 32.43                       | 40.00           | -7.57        | 46.41                 | -13.98                      | Peak            | ---               | ---                   |              |        |                   |                      |   |       |       |       |       |       |       |    |     |    |   |       |       |       |       |       |        |      |     |     |   |       |       |       |       |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |        |      |     |     |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 158.04       | 31.65                       | 43.50           | -11.85       | 39.74                 | -8.09                       | Peak            | ---               | ---                   |              |        |                   |                      |   |       |       |       |       |       |       |    |     |    |   |       |       |       |       |       |        |      |     |     |   |       |       |       |       |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |        |      |     |     |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 204.60       | 35.19                       | 43.50           | -8.31        | 46.06                 | -10.87                      | Peak            | ---               | ---                   |              |        |                   |                      |   |       |       |       |       |       |       |    |     |    |   |       |       |       |       |       |        |      |     |     |   |       |       |       |       |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |        |      |     |     |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 226.91       | 32.40                       | 46.00           | -13.60       | 42.74                 | -10.34                      | Peak            | ---               | ---                   |              |        |                   |                      |   |       |       |       |       |       |       |    |     |    |   |       |       |       |       |       |        |      |     |     |   |       |       |       |       |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |        |      |     |     |
| <div>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)<br/>*Factor includes antenna factor , cable loss and amplifier gain<br/>Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).<br/>Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |                             |                 |              |                       |                             |                 |                   |                       |              |        |                   |                      |   |       |       |       |       |       |       |    |     |    |   |       |       |       |       |       |        |      |     |     |   |       |       |       |       |       |        |      |     |     |   |        |       |       |        |       |       |      |     |     |   |        |       |       |       |       |        |      |     |     |   |        |       |       |        |       |        |      |     |     |

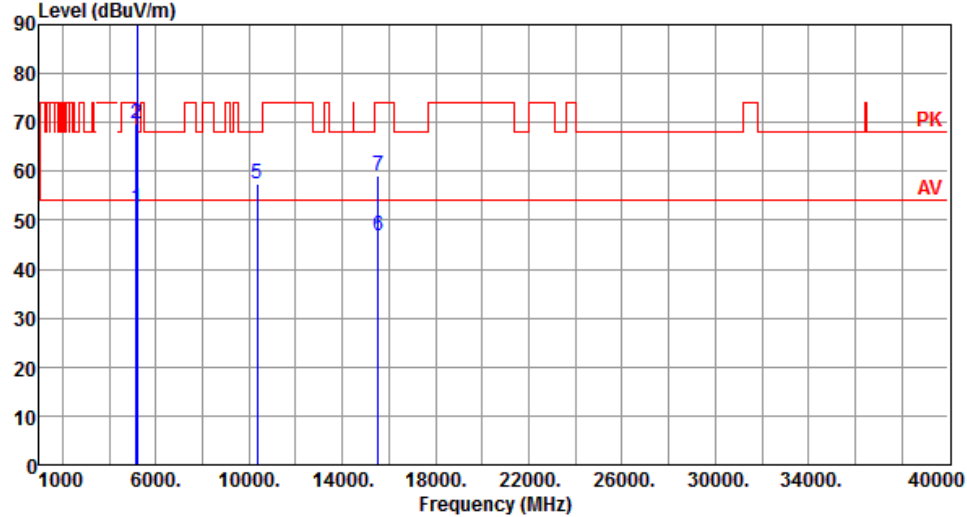
### 3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | 11a        | Test Freq. (MHz) | 5180 |
| Polarization | Horizontal |                  |      |

|     | Freq.    | Emission level | Limit  | Margin | SA reading | Factor | Remark  | ANT High | Turn Table |
|-----|----------|----------------|--------|--------|------------|--------|---------|----------|------------|
|     | MHz      | dBuV/m         | dBuV/m | dB     | dBuV       | dB     |         | cm       | deg        |
| 1   | 5150.00  | 53.79          | 54.00  | -0.21  | 47.58      | 6.21   | Average | 140      | 201        |
| 2   | 5150.00  | 69.28          | 74.00  | -4.72  | 63.07      | 6.21   | Peak    | 140      | 201        |
| 3 * | 5180.00  | 105.05         |        |        | 98.83      | 6.22   | Average | 140      | 201        |
| 4 * | 5180.00  | 115.73         |        |        | 109.51     | 6.22   | Peak    | 140      | 201        |
| 5   | 10360.00 | 57.31          | 68.20  | -10.89 | 41.56      | 15.75  | Peak    | 100      | 200        |
| 6   | 15540.00 | 46.95          | 54.00  | -7.05  | 30.56      | 16.39  | Average | 100      | 150        |
| 7   | 15540.00 | 58.55          | 74.00  | -15.45 | 42.16      | 16.39  | Peak    | 100      | 150        |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).  
 Note 3: "\*" is Peak / Average value of fundamental frequency

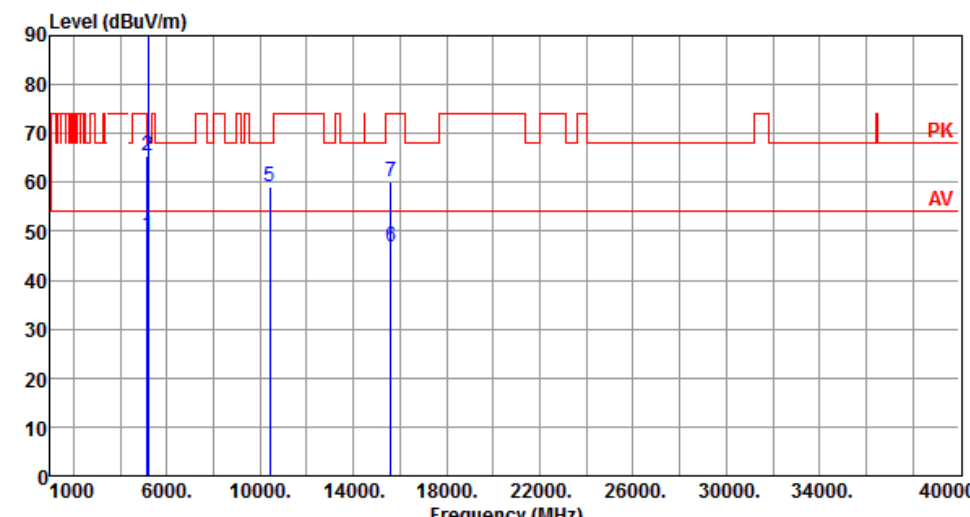
|                                                                                               |              |                             |                 |              |                       |              |         |                   |                      |
|-----------------------------------------------------------------------------------------------|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| Modulation                                                                                    | 11a          | Test Freq. (MHz)            | 5180            |              |                       |              |         |                   |                      |
| Polarization                                                                                  | Vertical     |                             |                 |              |                       |              |         |                   |                      |
| <div></div> |              |                             |                 |              |                       |              |         |                   |                      |
|                                                                                               | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
| 1                                                                                             | 5150.00      | 52.56                       | 54.00           | -1.44        | 46.35                 | 6.21         | Average | 218               | 179                  |
| 2                                                                                             | 5150.00      | 69.66                       | 74.00           | -4.34        | 63.45                 | 6.21         | Peak    | 218               | 179                  |
| 3 *                                                                                           | 5180.00      | 103.96                      |                 |              | 97.74                 | 6.22         | Average | 218               | 179                  |
| 4 *                                                                                           | 5180.00      | 114.79                      |                 |              | 108.57                | 6.22         | Peak    | 218               | 179                  |
| 5                                                                                             | 10360.00     | 57.60                       | 68.20           | -10.60       | 41.85                 | 15.75        | Peak    | 100               | 30                   |
| 6                                                                                             | 15540.00     | 46.84                       | 54.00           | -7.16        | 30.45                 | 16.39        | Average | 100               | 50                   |
| 7                                                                                             | 15540.00     | 58.97                       | 74.00           | -15.03       | 42.58                 | 16.39        | Peak    | 100               | 50                   |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3:"\*" is Peak / Average value of fundamental frequency

|                                                                                               |              |                             |                 |              |                       |              |         |                   |                      |
|-----------------------------------------------------------------------------------------------|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| Modulation                                                                                    | 11a          | Test Freq. (MHz)            | 5200            |              |                       |              |         |                   |                      |
| Polarization                                                                                  | Horizontal   |                             |                 |              |                       |              |         |                   |                      |
| <div></div> |              |                             |                 |              |                       |              |         |                   |                      |
|                                                                                               | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
| 1                                                                                             | 5150.00      | 49.21                       | 54.00           | -4.79        | 43.00                 | 6.21         | Average | 100               | 158                  |
| 2                                                                                             | 5150.00      | 65.29                       | 74.00           | -8.71        | 59.08                 | 6.21         | Peak    | 100               | 158                  |
| 3 *                                                                                           | 5200.00      | 110.11                      |                 |              | 103.89                | 6.22         | Average | 132               | 158                  |
| 4 *                                                                                           | 5200.00      | 120.95                      |                 |              | 114.73                | 6.22         | Peak    | 132               | 158                  |
| 5                                                                                             | 10400.00     | 59.00                       | 68.20           | -9.20        | 43.22                 | 15.78        | Peak    | 153               | 201                  |
| 6                                                                                             | 15600.00     | 46.97                       | 54.00           | -7.03        | 30.70                 | 16.27        | Average | 100               | 135                  |
| 7                                                                                             | 15600.00     | 60.17                       | 74.00           | -13.83       | 43.90                 | 16.27        | Peak    | 100               | 135                  |

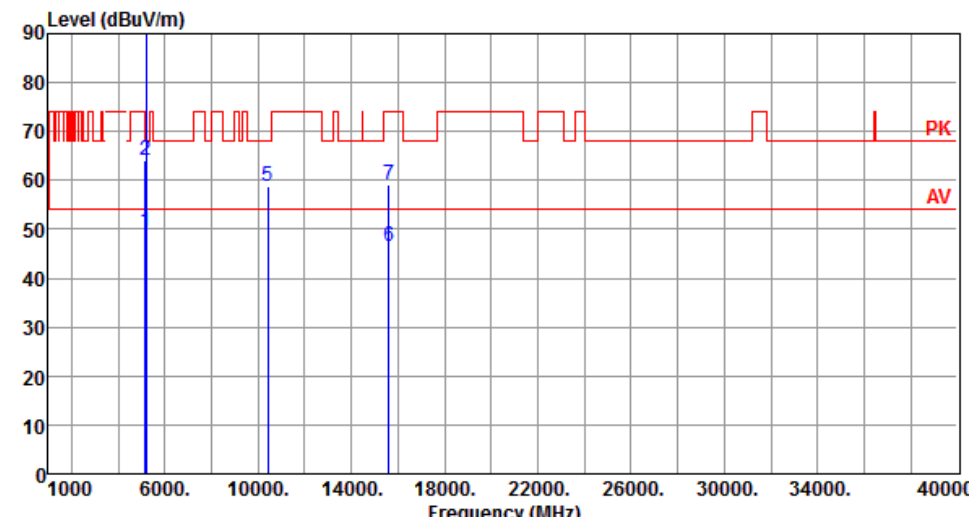
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3:"\*" is Peak / Average value of fundamental frequency

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | 11a      | Test Freq. (MHz) | 5200 |
| Polarization | Vertical |                  |      |

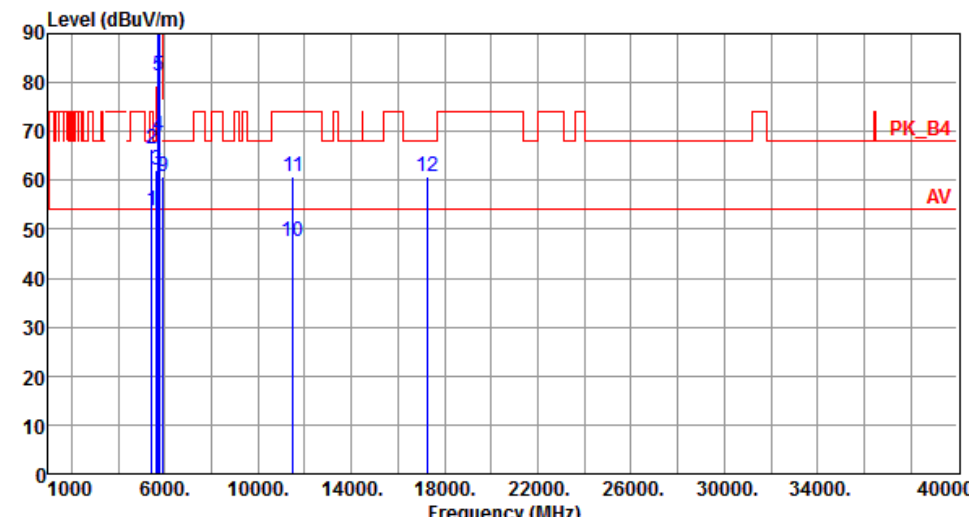
|     | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5150.00      | 49.42                       | 54.00           | -4.58        | 43.21                 | 6.21         | Average | 205               | 179                  |
| 2   | 5150.00      | 64.11                       | 74.00           | -9.89        | 57.90                 | 6.21         | Peak    | 205               | 179                  |
| 3 * | 5200.00      | 107.53                      |                 |              | 101.31                | 6.22         | Average | 205               | 179                  |
| 4 * | 5200.00      | 117.93                      |                 |              | 111.71                | 6.22         | Peak    | 205               | 179                  |
| 5   | 10400.00     | 58.62                       | 68.20           | -9.58        | 42.84                 | 15.78        | Peak    | 100               | 174                  |
| 6   | 15600.00     | 46.55                       | 54.00           | -7.45        | 30.28                 | 16.27        | Average | 100               | 168                  |
| 7   | 15600.00     | 59.23                       | 74.00           | -14.77       | 42.96                 | 16.27        | Peak    | 100               | 168                  |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).  
Note 3: "\*" is Peak / Average value of fundamental frequency

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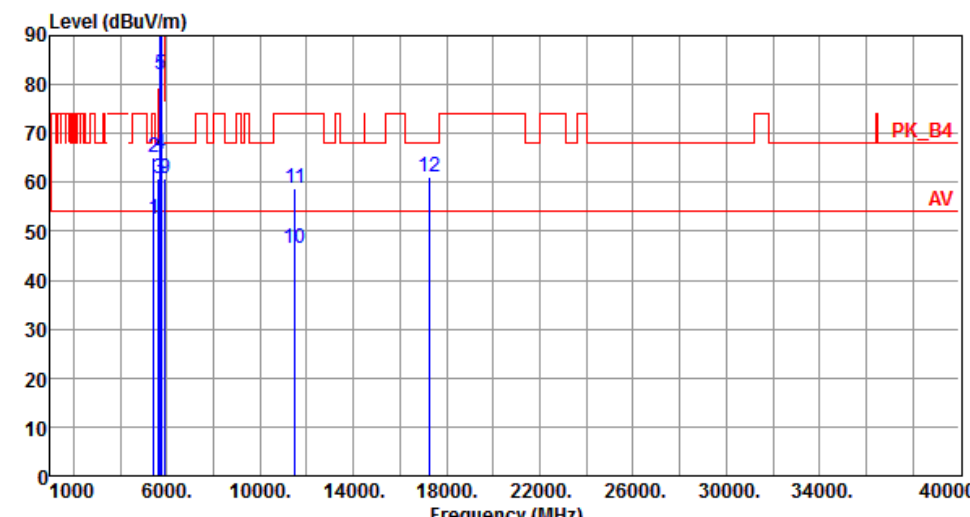
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(dBuV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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|          |                  |      |

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | 11a        | Test Freq. (MHz) | 5745 |
| Polarization | Horizontal |                  |      |

|     | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5425.00      | 53.80                       | 54.00           | -0.20        | 47.25                 | 6.55         | Average | 187               | 176                  |
| 2   | 5425.00      | 66.43                       | 74.00           | -7.57        | 59.88                 | 6.55         | Peak    | 187               | 176                  |
| 3   | 5650.00      | 61.98                       | 68.20           | -6.22        | 55.12                 | 6.86         | Peak    | 187               | 176                  |
| 4   | 5700.00      | 69.19                       | 105.20          | -36.01       | 62.23                 | 6.96         | Peak    | 187               | 176                  |
| 5   | 5720.00      | 81.44                       | 110.80          | -29.36       | 74.44                 | 7.00         | Peak    | 187               | 176                  |
| 6   | 5725.00      | 91.68                       | 122.20          | -30.52       | 84.68                 | 7.00         | Peak    | 187               | 176                  |
| 7 * | 5745.00      | 109.41                      |                 |              | 102.37                | 7.04         | Average | 187               | 176                  |
| 8 * | 5745.00      | 120.56                      |                 |              | 113.52                | 7.04         | Peak    | 187               | 176                  |
| 9   | 5925.00      | 60.91                       | 68.20           | -7.29        | 53.53                 | 7.38         | Peak    | 187               | 176                  |
| 10  | 11490.00     | 47.49                       | 54.00           | -6.51        | 31.00                 | 16.49        | Average | 163               | 124                  |
| 11  | 11490.00     | 60.74                       | 74.00           | -13.26       | 44.25                 | 16.49        | Peak    | 163               | 124                  |
| 12  | 17235.00     | 60.81                       | 68.20           | -7.39        | 42.44                 | 18.37        | Peak    | 100               | 163                  |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).  
Note 3: "\*" is Peak / Average value of fundamental frequency

|                                                                                               |              |                             |                 |              |                       |              |         |                   |                      |
|-----------------------------------------------------------------------------------------------|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| Modulation                                                                                    | 11a          | Test Freq. (MHz)            | 5745            |              |                       |              |         |                   |                      |
| Polarization                                                                                  | Vertical     |                             |                 |              |                       |              |         |                   |                      |
| <div></div> |              |                             |                 |              |                       |              |         |                   |                      |
|                                                                                               | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
| 1                                                                                             | 5425.00      | 52.52                       | 54.00           | -1.48        | 45.97                 | 6.55         | Average | 190               | 198                  |
| 2                                                                                             | 5425.00      | 64.96                       | 74.00           | -9.04        | 58.41                 | 6.55         | Peak    | 190               | 198                  |
| 3                                                                                             | 5650.00      | 60.64                       | 68.20           | -7.56        | 53.78                 | 6.86         | Peak    | 152               | 198                  |
| 4                                                                                             | 5700.00      | 65.89                       | 105.20          | -39.31       | 58.93                 | 6.96         | Peak    | 152               | 198                  |
| 5                                                                                             | 5720.00      | 82.09                       | 110.80          | -28.71       | 75.09                 | 7.00         | Peak    | 152               | 198                  |
| 6                                                                                             | 5725.00      | 95.11                       | 122.20          | -27.09       | 88.11                 | 7.00         | Peak    | 152               | 198                  |
| 7 *                                                                                           | 5745.00      | 112.81                      |                 |              | 105.77                | 7.04         | Average | 152               | 198                  |
| 8 *                                                                                           | 5745.00      | 123.15                      |                 |              | 116.11                | 7.04         | Peak    | 152               | 198                  |
| 9                                                                                             | 5925.00      | 60.71                       | 68.20           | -7.49        | 53.33                 | 7.38         | Peak    | 152               | 198                  |
| 10                                                                                            | 11490.00     | 46.64                       | 54.00           | -7.36        | 30.15                 | 16.49        | Average | 100               | 218                  |
| 11                                                                                            | 11490.00     | 58.72                       | 74.00           | -15.28       | 42.23                 | 16.49        | Peak    | 100               | 218                  |
| 12                                                                                            | 17235.00     | 61.22                       | 68.20           | -6.98        | 42.85                 | 18.37        | Peak    | 100               | 185                  |

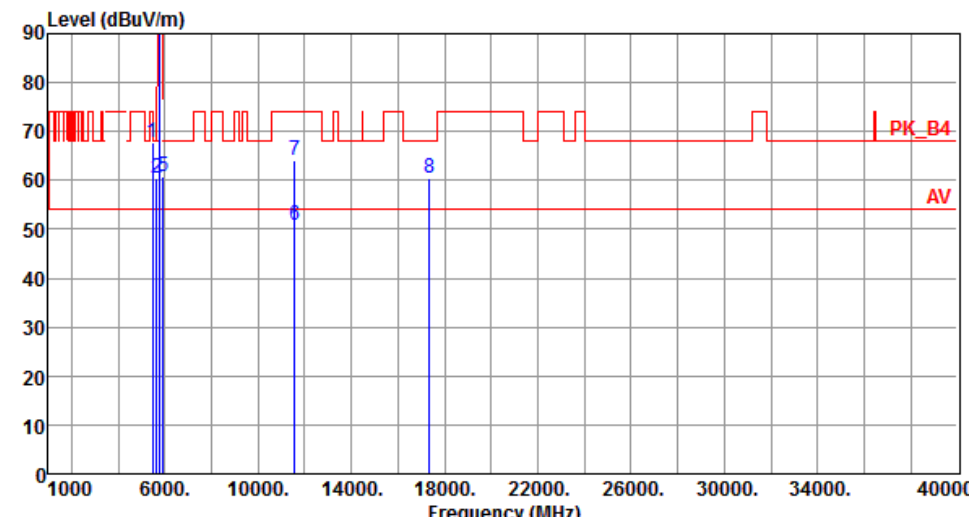
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency

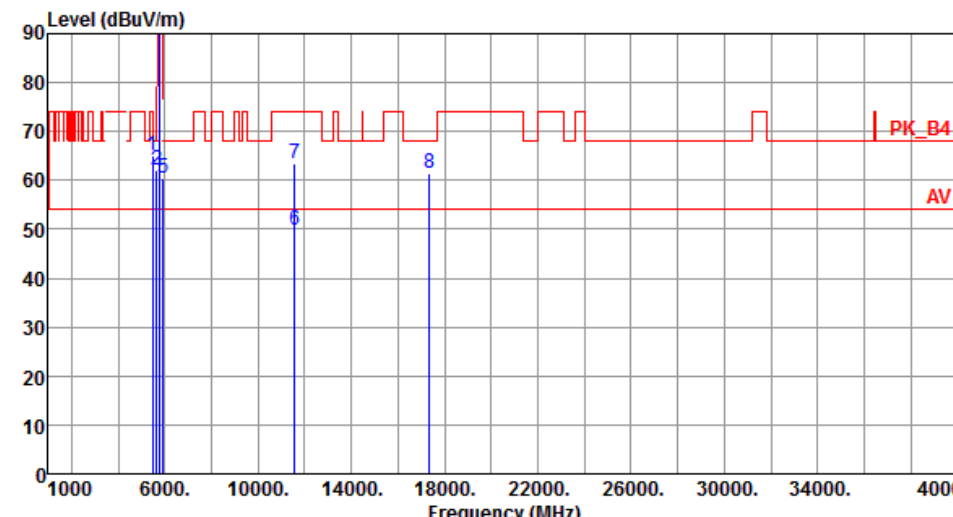
|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | 11a        | Test Freq. (MHz) | 5785 |
| Polarization | Horizontal |                  |      |

|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5465.00      | 67.85                       | 68.20           | -0.35        | 61.27                 | 6.58         | Peak    | 204               | 179                  |
| 2   | 5650.00      | 60.44                       | 68.20           | -7.76        | 53.58                 | 6.86         | Peak    | 204               | 179                  |
| 3 * | 5785.00      | 109.30                      |                 |              | 102.17                | 7.13         | Average | 204               | 179                  |
| 4 * | 5785.00      | 120.77                      |                 |              | 113.64                | 7.13         | Peak    | 204               | 179                  |
| 5   | 5925.00      | 60.94                       | 68.20           | -7.26        | 53.56                 | 7.38         | Peak    | 204               | 179                  |
| 6   | 11570.00     | 50.81                       | 54.00           | -3.19        | 34.42                 | 16.39        | Average | 114               | 128                  |
| 7   | 11570.00     | 64.13                       | 74.00           | -9.87        | 47.74                 | 16.39        | Peak    | 114               | 128                  |
| 8   | 17355.00     | 60.59                       | 68.20           | -7.61        | 41.86                 | 18.73        | Peak    | 100               | 181                  |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).  
Note 3: "\*" is Peak / Average value of fundamental frequency

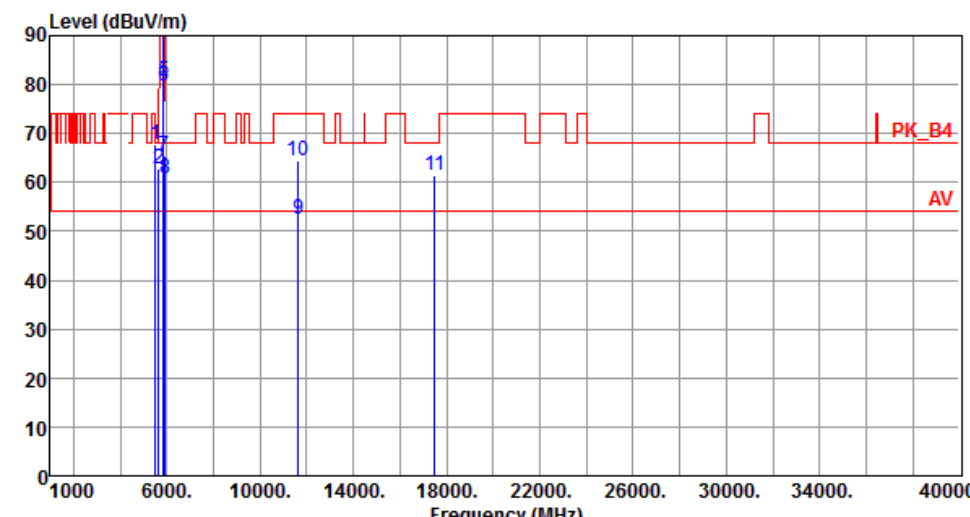
|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | 11a      | Test Freq. (MHz) | 5785 |
| Polarization | Vertical |                  |      |

|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5465.00      | 65.18                       | 68.20           | -3.02        | 58.60                 | 6.58         | Peak    | 153               | 200                  |
| 2   | 5650.00      | 62.22                       | 68.20           | -5.98        | 55.36                 | 6.86         | Peak    | 153               | 200                  |
| 3 * | 5785.00      | 111.67                      |                 |              | 104.54                | 7.13         | Average | 153               | 200                  |
| 4 * | 5785.00      | 121.90                      |                 |              | 114.77                | 7.13         | Peak    | 153               | 200                  |
| 5   | 5925.00      | 60.48                       | 68.20           | -7.72        | 53.10                 | 7.38         | Peak    | 153               | 200                  |
| 6   | 11570.00     | 49.82                       | 54.00           | -4.18        | 33.43                 | 16.39        | Average | 100               | 218                  |
| 7   | 11570.00     | 63.44                       | 74.00           | -10.56       | 47.05                 | 16.39        | Peak    | 100               | 218                  |
| 8   | 17355.00     | 61.53                       | 68.20           | -6.67        | 42.80                 | 18.73        | Peak    | 100               | 175                  |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).  
 Note 3: "\*" is Peak / Average value of fundamental frequency

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | 11a        | Test Freq. (MHz) | 5825 |
| Polarization | Horizontal |                  |      |



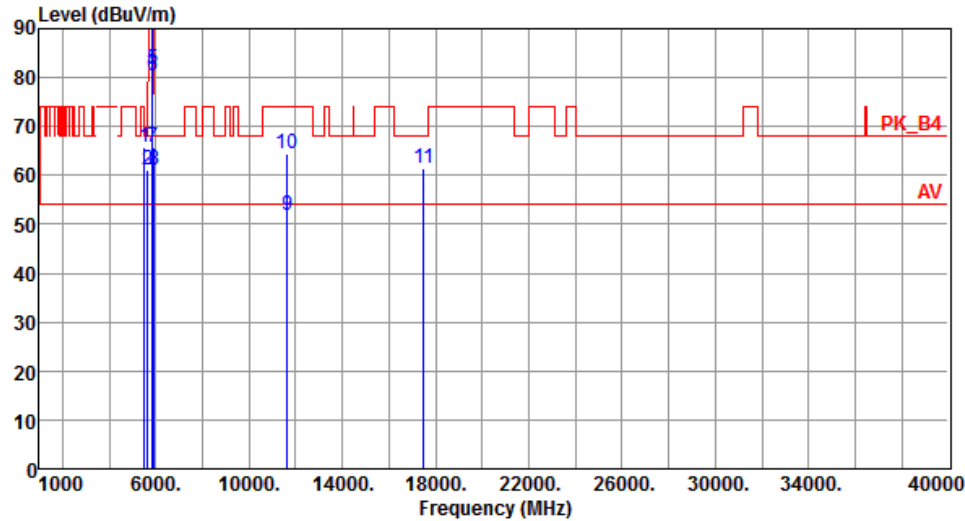
|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5505.00      | 67.82                       | 68.20           | -0.38        | 61.20                 | 6.62         | Peak    | 199               | 177                  |
| 2   | 5650.00      | 62.85                       | 68.20           | -5.35        | 55.99                 | 6.86         | Peak    | 199               | 177                  |
| 3 * | 5825.00      | 109.50                      |                 |              | 102.30                | 7.20         | Average | 199               | 177                  |
| 4 * | 5825.00      | 119.53                      |                 |              | 112.33                | 7.20         | Peak    | 199               | 177                  |
| 5   | 5850.00      | 80.79                       | 122.20          | -41.41       | 73.55                 | 7.24         | Peak    | 199               | 177                  |
| 6   | 5855.00      | 79.62                       | 110.80          | -31.18       | 72.36                 | 7.26         | Peak    | 199               | 177                  |
| 7   | 5875.00      | 65.58                       | 105.20          | -39.62       | 58.29                 | 7.29         | Peak    | 199               | 177                  |
| 8   | 5925.00      | 60.71                       | 68.20           | -7.49        | 53.33                 | 7.38         | Peak    | 199               | 177                  |
| 9   | 11650.00     | 52.62                       | 54.00           | -1.38        | 36.35                 | 16.27        | Average | 100               | 214                  |
| 10  | 11650.00     | 64.54                       | 74.00           | -9.46        | 48.27                 | 16.27        | Peak    | 100               | 214                  |
| 11  | 17475.00     | 61.49                       | 68.20           | -6.71        | 42.38                 | 19.11        | Peak    | 100               | 166                  |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency

|                                                                                               |              |                             |                 |              |                       |              |         |                   |                      |
|-----------------------------------------------------------------------------------------------|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| Modulation                                                                                    | 11a          | Test Freq. (MHz)            | 5825            |              |                       |              |         |                   |                      |
| Polarization                                                                                  | Vertical     |                             |                 |              |                       |              |         |                   |                      |
| <div></div> |              |                             |                 |              |                       |              |         |                   |                      |
|                                                                                               | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
| 1                                                                                             | 5505.00      | 65.90                       | 68.20           | -2.30        | 59.28                 | 6.62         | Peak    | 156               | 198                  |
| 2                                                                                             | 5650.00      | 60.98                       | 68.20           | -7.22        | 54.12                 | 6.86         | Peak    | 156               | 198                  |
| 3 *                                                                                           | 5825.00      | 112.02                      |                 |              | 104.82                | 7.20         | Average | 156               | 198                  |
| 4 *                                                                                           | 5825.00      | 122.25                      |                 |              | 115.05                | 7.20         | Peak    | 156               | 198                  |
| 5                                                                                             | 5850.00      | 81.56                       | 122.20          | -40.64       | 74.32                 | 7.24         | Peak    | 156               | 198                  |
| 6                                                                                             | 5855.00      | 80.31                       | 110.80          | -30.49       | 73.05                 | 7.26         | Peak    | 156               | 198                  |
| 7                                                                                             | 5875.00      | 65.67                       | 105.20          | -39.53       | 58.38                 | 7.29         | Peak    | 156               | 198                  |
| 8                                                                                             | 5925.00      | 61.06                       | 68.20           | -7.14        | 53.68                 | 7.38         | Peak    | 156               | 198                  |
| 9                                                                                             | 11650.00     | 51.70                       | 54.00           | -2.30        | 35.43                 | 16.27        | Average | 100               | 215                  |
| 10                                                                                            | 11650.00     | 64.58                       | 74.00           | -9.42        | 48.31                 | 16.27        | Peak    | 100               | 215                  |
| 11                                                                                            | 17475.00     | 61.53                       | 68.20           | -6.67        | 42.42                 | 19.11        | Peak    | 100               | 175                  |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency

### 3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz) | 5180 |
| Polarization | Horizontal |                  |      |

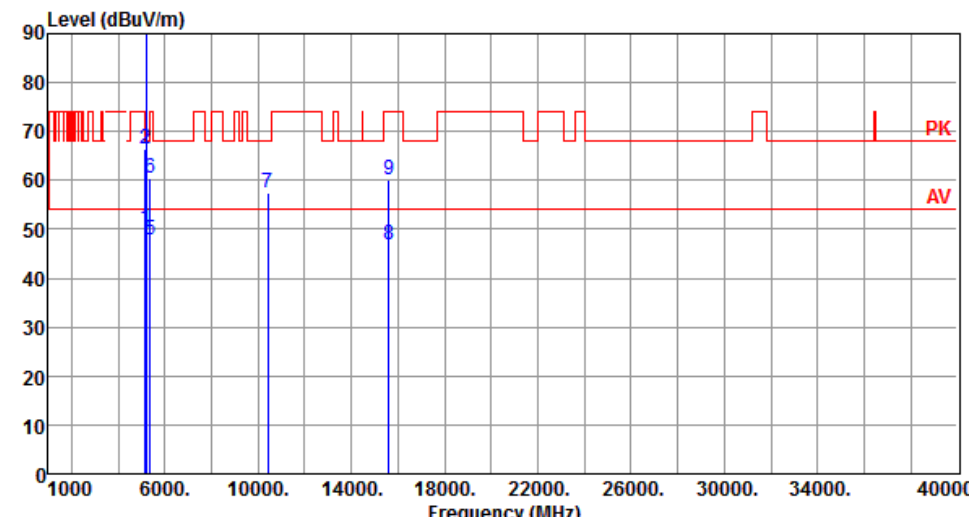
|     | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5150.00      | 53.61                       | 54.00           | -0.39        | 47.40                 | 6.21         | Average | 100               | 175                  |
| 2   | 5150.00      | 68.99                       | 74.00           | -5.01        | 62.78                 | 6.21         | Peak    | 100               | 175                  |
| 3 * | 5180.00      | 105.04                      |                 |              | 98.82                 | 6.22         | Average | 100               | 175                  |
| 4 * | 5180.00      | 115.43                      |                 |              | 109.21                | 6.22         | Peak    | 100               | 175                  |
| 5   | 10360.00     | 57.34                       | 68.20           | -10.86       | 41.59                 | 15.75        | Peak    | 100               | 200                  |
| 6   | 15540.00     | 46.87                       | 54.00           | -7.13        | 30.48                 | 16.39        | Average | 100               | 50                   |
| 7   | 15540.00     | 59.17                       | 74.00           | -14.83       | 42.78                 | 16.39        | Peak    | 100               | 50                   |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).  
 Note 3: "\*" is Peak / Average value of fundamental frequency

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                                                     | VHT20    | Test Freq. (MHz) | 5180 |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Vertical |                  |      |
| <div><div><div>Level (dBUV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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| Modulation   | VHT20    | Test Freq. (MHz) | 5200 |
| Polarization | Vertical |                  |      |

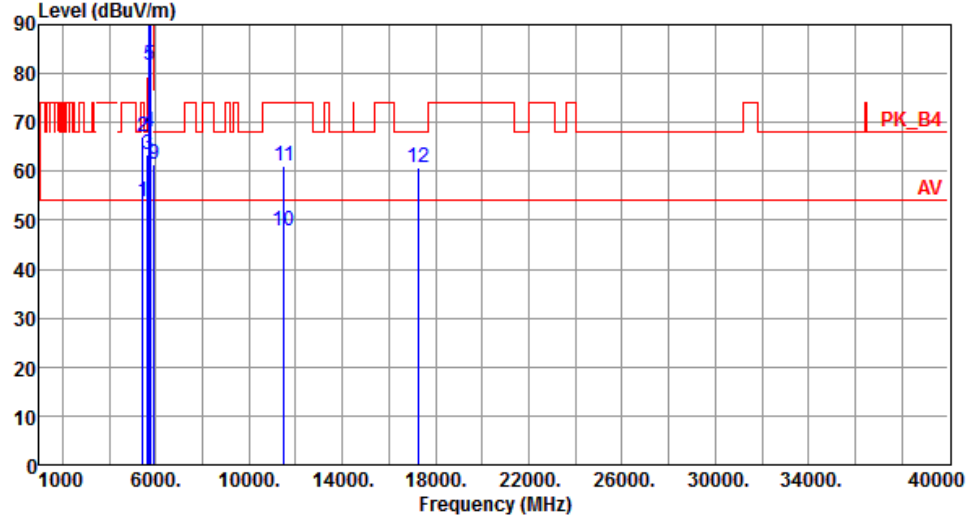
  


|     | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5150.00      | 50.01                       | 54.00           | -3.99        | 43.80                 | 6.21         | Average | 240               | 202                  |
| 2   | 5150.00      | 66.57                       | 74.00           | -7.43        | 60.36                 | 6.21         | Peak    | 240               | 202                  |
| 3 * | 5200.00      | 107.70                      |                 |              | 101.48                | 6.22         | Average | 240               | 202                  |
| 4 * | 5200.00      | 117.82                      |                 |              | 111.60                | 6.22         | Peak    | 240               | 202                  |
| 5   | 5350.00      | 47.91                       | 54.00           | -6.09        | 41.46                 | 6.45         | Average | 240               | 202                  |
| 6   | 5350.00      | 60.47                       | 74.00           | -13.53       | 54.02                 | 6.45         | Peak    | 240               | 202                  |
| 7   | 10400.00     | 57.60                       | 68.20           | -10.60       | 41.82                 | 15.78        | Peak    | 100               | 205                  |
| 8   | 15600.00     | 46.80                       | 54.00           | -7.20        | 30.53                 | 16.27        | Average | 100               | 212                  |
| 9   | 15600.00     | 59.97                       | 74.00           | -14.03       | 43.70                 | 16.27        | Peak    | 100               | 212                  |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).  
Note 3: "\*" is Peak / Average value of fundamental frequency

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(dBuV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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|          |                  |      |

|                                                                                               |              |                             |                 |              |                       |              |         |                   |                      |
|-----------------------------------------------------------------------------------------------|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| Modulation                                                                                    | VHT20        | Test Freq. (MHz)            | 5745            |              |                       |              |         |                   |                      |
| Polarization                                                                                  | Horizontal   |                             |                 |              |                       |              |         |                   |                      |
| <div></div> |              |                             |                 |              |                       |              |         |                   |                      |
|                                                                                               | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
| 1                                                                                             | 5425.00      | 53.80                       | 54.00           | -0.20        | 47.25                 | 6.55         | Average | 158               | 176                  |
| 2                                                                                             | 5425.00      | 67.05                       | 74.00           | -6.95        | 60.50                 | 6.55         | Peak    | 158               | 176                  |
| 3                                                                                             | 5650.00      | 63.27                       | 68.20           | -4.93        | 56.41                 | 6.86         | Peak    | 222               | 176                  |
| 4                                                                                             | 5700.00      | 67.99                       | 105.20          | -37.21       | 61.03                 | 6.96         | Peak    | 222               | 176                  |
| 5                                                                                             | 5720.00      | 81.54                       | 110.80          | -29.26       | 74.54                 | 7.00         | Peak    | 222               | 176                  |
| 6                                                                                             | 5725.00      | 93.34                       | 122.20          | -28.86       | 86.34                 | 7.00         | Peak    | 222               | 176                  |
| 7 *                                                                                           | 5745.00      | 109.35                      |                 |              | 102.31                | 7.04         | Average | 222               | 176                  |
| 8 *                                                                                           | 5745.00      | 119.42                      |                 |              | 112.38                | 7.04         | Peak    | 222               | 176                  |
| 9                                                                                             | 5925.00      | 61.55                       | 68.20           | -6.65        | 54.17                 | 7.38         | Peak    | 222               | 176                  |
| 10                                                                                            | 11490.00     | 47.74                       | 54.00           | -6.26        | 31.25                 | 16.49        | Average | 165               | 124                  |
| 11                                                                                            | 11490.00     | 61.02                       | 74.00           | -12.98       | 44.53                 | 16.49        | Peak    | 165               | 124                  |
| 12                                                                                            | 17235.00     | 60.93                       | 68.20           | -7.27        | 42.56                 | 18.37        | Peak    | 100               | 157                  |

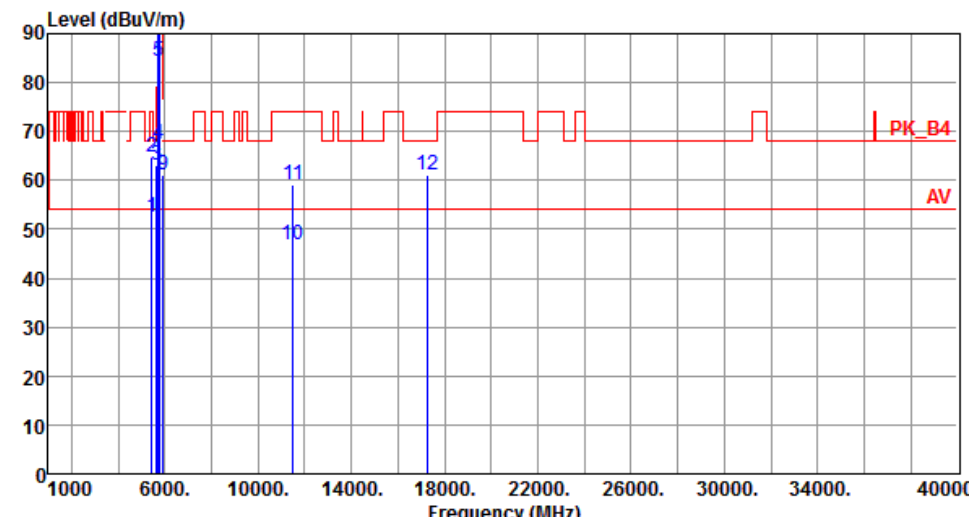
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3:"\*" is Peak / Average value of fundamental frequency

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz) | 5745 |
| Polarization | Vertical |                  |      |

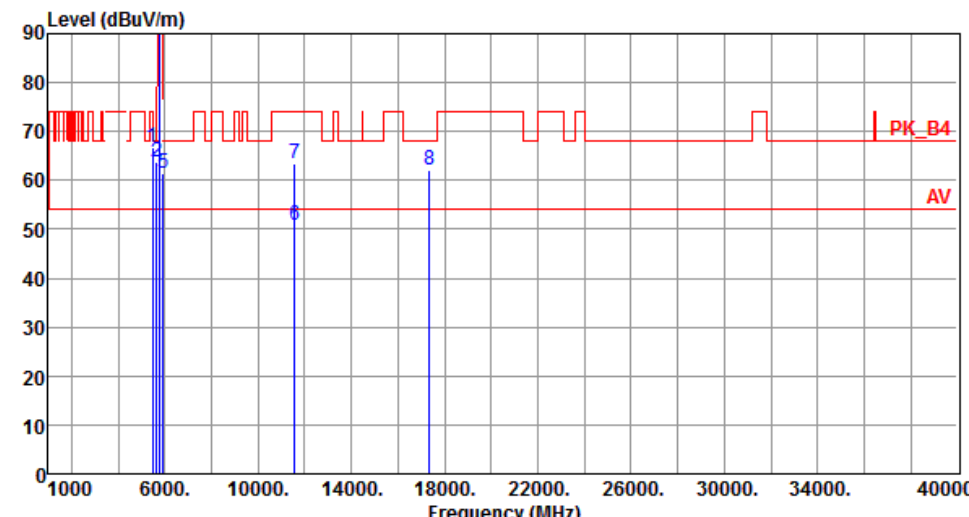
  


|     | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5425.00      | 52.58                       | 54.00           | -1.42        | 46.03                 | 6.55         | Average | 179               | 200                  |
| 2   | 5425.00      | 64.60                       | 74.00           | -9.40        | 58.05                 | 6.55         | Peak    | 179               | 200                  |
| 3   | 5650.00      | 63.00                       | 68.20           | -5.20        | 56.14                 | 6.86         | Peak    | 179               | 200                  |
| 4   | 5700.00      | 67.56                       | 105.20          | -37.64       | 60.60                 | 6.96         | Peak    | 179               | 200                  |
| 5   | 5720.00      | 84.29                       | 110.80          | -26.51       | 77.29                 | 7.00         | Peak    | 179               | 200                  |
| 6   | 5725.00      | 92.21                       | 122.20          | -29.99       | 85.21                 | 7.00         | Peak    | 179               | 200                  |
| 7 * | 5745.00      | 112.07                      |                 |              | 105.03                | 7.04         | Average | 179               | 200                  |
| 8 * | 5745.00      | 122.18                      |                 |              | 115.14                | 7.04         | Peak    | 179               | 200                  |
| 9   | 5925.00      | 61.26                       | 68.20           | -6.94        | 53.88                 | 7.38         | Peak    | 179               | 200                  |
| 10  | 11490.00     | 46.77                       | 54.00           | -7.23        | 30.28                 | 16.49        | Average | 100               | 215                  |
| 11  | 11490.00     | 59.05                       | 74.00           | -14.95       | 42.56                 | 16.49        | Peak    | 100               | 215                  |
| 12  | 17235.00     | 61.14                       | 68.20           | -7.06        | 42.77                 | 18.37        | Peak    | 100               | 182                  |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).  
 Note 3: "\*" is Peak / Average value of fundamental frequency

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| Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | VHT20      | Test Freq. (MHz) | 5785 |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Horizontal |                  |      |
| <div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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|            |                  |      |

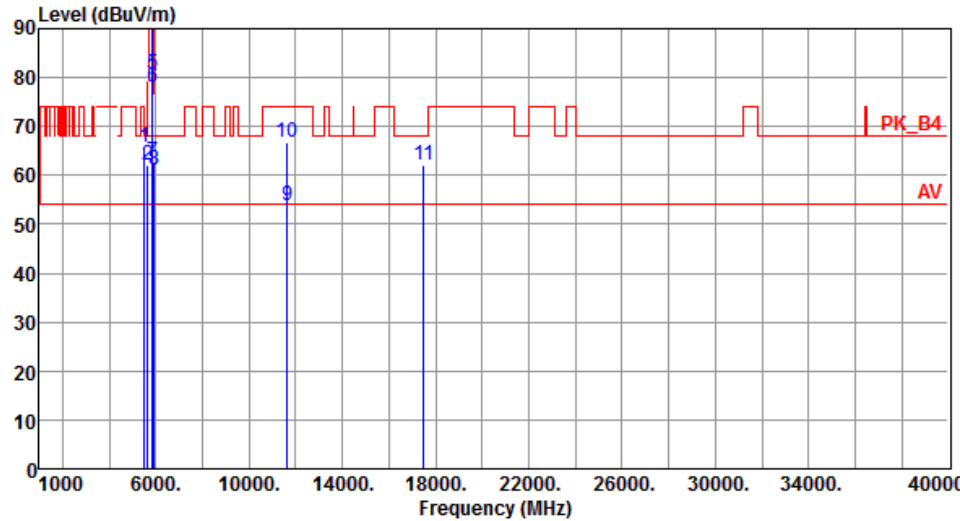
|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz) | 5785 |
| Polarization | Vertical |                  |      |

|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5465.00      | 66.88                       | 68.20           | -1.32        | 60.30                 | 6.58         | Peak    | 174               | 198                  |
| 2   | 5650.00      | 63.66                       | 68.20           | -4.54        | 56.80                 | 6.86         | Peak    | 174               | 198                  |
| 3 * | 5785.00      | 111.17                      |                 |              | 104.04                | 7.13         | Average | 174               | 198                  |
| 4 * | 5785.00      | 121.26                      |                 |              | 114.13                | 7.13         | Peak    | 174               | 198                  |
| 5   | 5925.00      | 61.34                       | 68.20           | -6.86        | 53.96                 | 7.38         | Peak    | 174               | 198                  |
| 6   | 11570.00     | 50.79                       | 54.00           | -3.21        | 34.40                 | 16.39        | Average | 100               | 30                   |
| 7   | 11570.00     | 63.49                       | 74.00           | -10.51       | 47.10                 | 16.39        | Peak    | 100               | 30                   |
| 8   | 17355.00     | 62.24                       | 68.20           | -5.96        | 43.51                 | 18.73        | Peak    | 100               | 193                  |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).  
 Note 3: "\*" is Peak / Average value of fundamental frequency

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz) | 5825 |
| Polarization | Horizontal |                  |      |



|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5505.00      | 65.89                       | 68.20           | -2.31        | 59.27                 | 6.62         | Peak    | 175               | 175                  |
| 2   | 5650.00      | 62.23                       | 68.20           | -5.97        | 55.37                 | 6.86         | Peak    | 224               | 175                  |
| 3 * | 5825.00      | 110.93                      |                 |              | 103.73                | 7.20         | Average | 224               | 175                  |
| 4 * | 5825.00      | 121.25                      |                 |              | 114.05                | 7.20         | Peak    | 224               | 175                  |
| 5   | 5850.00      | 80.84                       | 122.20          | -41.36       | 73.60                 | 7.24         | Peak    | 224               | 175                  |
| 6   | 5855.00      | 77.97                       | 110.80          | -32.83       | 70.71                 | 7.26         | Peak    | 224               | 175                  |
| 7   | 5875.00      | 62.79                       | 105.20          | -42.41       | 55.50                 | 7.29         | Peak    | 224               | 175                  |
| 8   | 5925.00      | 61.16                       | 68.20           | -7.04        | 53.78                 | 7.38         | Peak    | 224               | 175                  |
| 9   | 11650.00     | 53.85                       | 54.00           | -0.15        | 37.58                 | 16.27        | Average | 133               | 294                  |
| 10  | 11650.00     | 66.79                       | 74.00           | -7.21        | 50.52                 | 16.27        | Peak    | 133               | 294                  |
| 11  | 17475.00     | 62.01                       | 68.20           | -6.19        | 42.90                 | 19.11        | Peak    | 100               | 47                   |

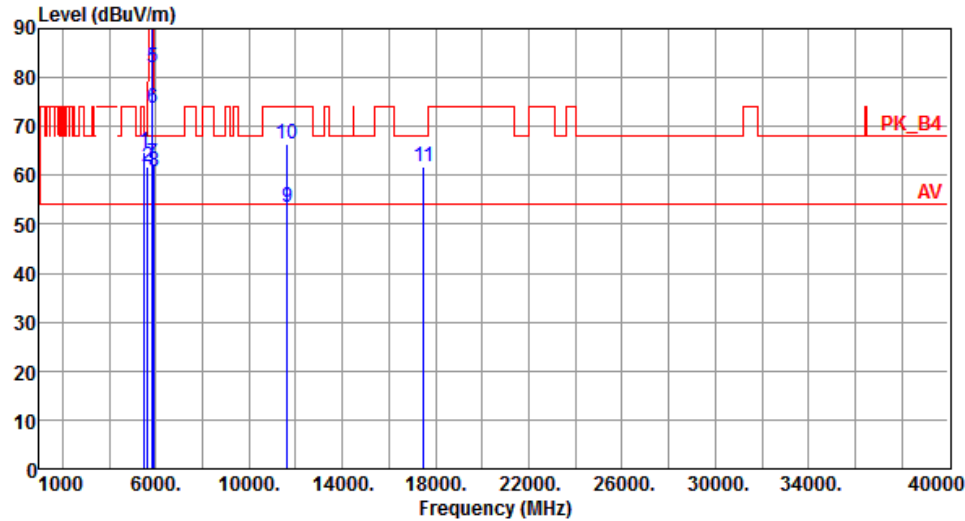
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz) | 5825 |
| Polarization | Vertical |                  |      |

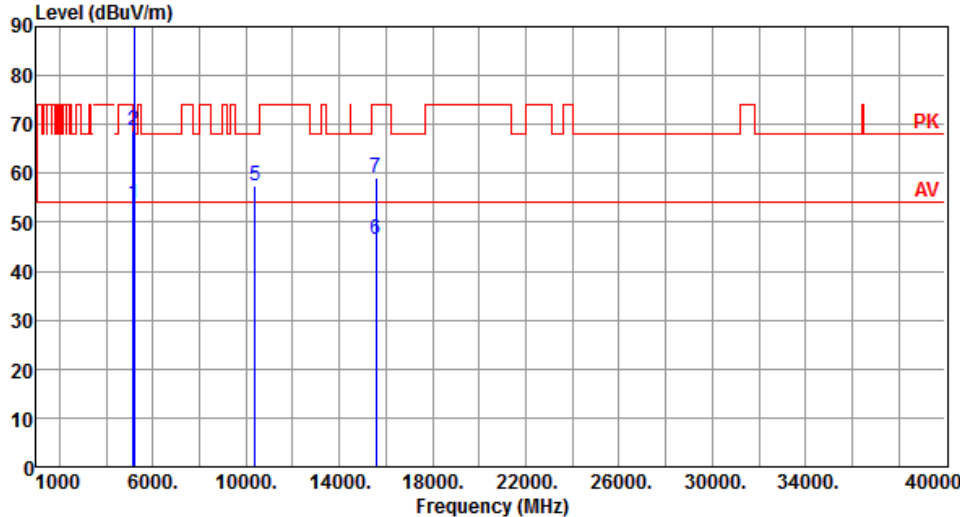


|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5505.00      | 64.67                       | 68.20           | -3.53        | 58.05                 | 6.62         | Peak    | 173               | 198                  |
| 2   | 5650.00      | 61.88                       | 68.20           | -6.32        | 55.02                 | 6.86         | Peak    | 173               | 198                  |
| 3 * | 5825.00      | 112.18                      |                 |              | 104.98                | 7.20         | Average | 173               | 198                  |
| 4 * | 5825.00      | 122.80                      |                 |              | 115.60                | 7.20         | Peak    | 173               | 198                  |
| 5   | 5850.00      | 81.92                       | 122.20          | -40.28       | 74.68                 | 7.24         | Peak    | 173               | 198                  |
| 6   | 5855.00      | 73.70                       | 110.80          | -37.10       | 66.44                 | 7.26         | Peak    | 173               | 198                  |
| 7   | 5875.00      | 62.29                       | 105.20          | -42.91       | 55.00                 | 7.29         | Peak    | 173               | 198                  |
| 8   | 5925.00      | 60.88                       | 68.20           | -7.32        | 53.50                 | 7.38         | Peak    | 173               | 198                  |
| 9   | 11650.00     | 53.40                       | 54.00           | -0.60        | 37.13                 | 16.27        | Average | 100               | 29                   |
| 10  | 11650.00     | 66.29                       | 74.00           | -7.71        | 50.02                 | 16.27        | Peak    | 100               | 29                   |
| 11  | 17475.00     | 61.81                       | 68.20           | -6.39        | 42.70                 | 19.11        | Peak    | 100               | 182                  |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).  
Note 3: "\*" is Peak / Average value of fundamental frequency

### 3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

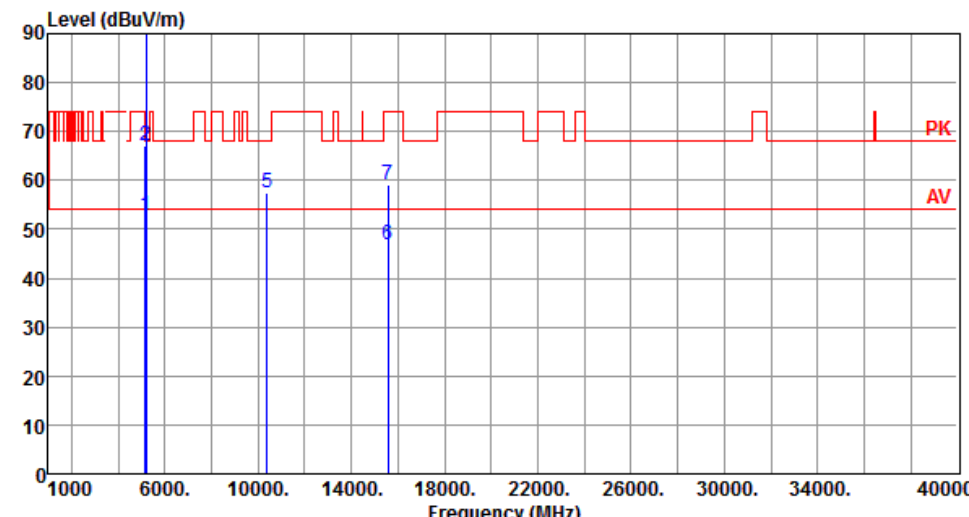
|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | VHT40      | Test Freq. (MHz) | 5190 |
| Polarization | Horizontal |                  |      |

|     | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5150.00      | 53.76                       | 54.00           | -0.24        | 47.55                 | 6.21         | Average | 157               | 22                   |
| 2   | 5150.00      | 68.62                       | 74.00           | -5.38        | 62.41                 | 6.21         | Peak    | 157               | 22                   |
| 3 * | 5190.00      | 97.41                       |                 |              | 91.19                 | 6.22         | Average | 157               | 22                   |
| 4 * | 5190.00      | 107.32                      |                 |              | 101.10                | 6.22         | Peak    | 157               | 22                   |
| 5   | 10380.00     | 57.35                       | 68.20           | -10.85       | 41.59                 | 15.76        | Peak    | 100               | 30                   |
| 6   | 15570.00     | 46.58                       | 54.00           | -7.42        | 30.25                 | 16.33        | Average | 100               | 60                   |
| 7   | 15570.00     | 59.12                       | 74.00           | -14.88       | 42.79                 | 16.33        | Peak    | 100               | 60                   |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).  
 Note 3: "\*" is Peak / Average value of fundamental frequency

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | VHT40    | Test Freq. (MHz) | 5190 |
| Polarization | Vertical |                  |      |

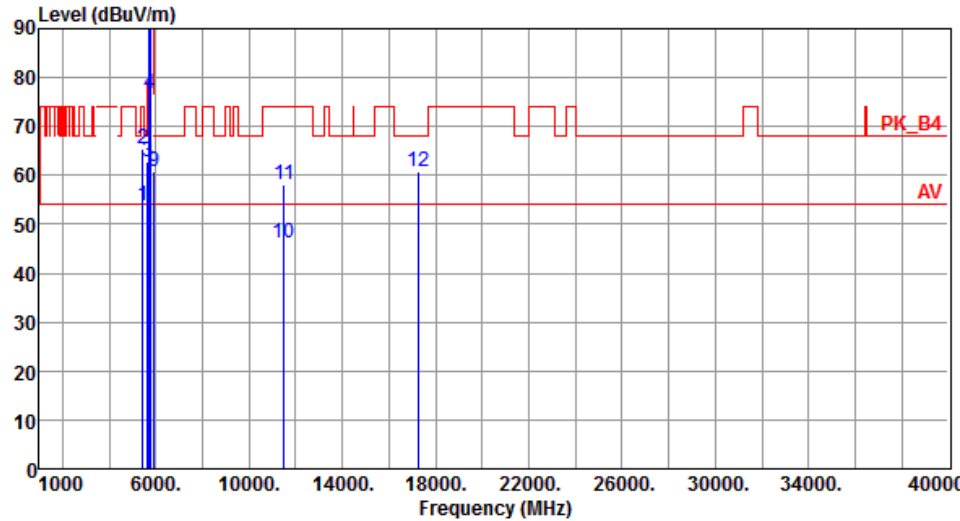
|     | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5150.00      | 52.87                       | 54.00           | -1.13        | 46.66                 | 6.21         | Average | 217               | 1                    |
| 2   | 5150.00      | 67.02                       | 74.00           | -6.98        | 60.81                 | 6.21         | Peak    | 217               | 1                    |
| 3 * | 5190.00      | 96.01                       |                 |              | 89.79                 | 6.22         | Average | 217               | 1                    |
| 4 * | 5190.00      | 105.98                      |                 |              | 99.76                 | 6.22         | Peak    | 217               | 1                    |
| 5   | 10380.00     | 57.35                       | 68.20           | -10.85       | 41.59                 | 15.76        | Peak    | 100               | 60                   |
| 6   | 15570.00     | 46.78                       | 54.00           | -7.22        | 30.45                 | 16.33        | Average | 100               | 90                   |
| 7   | 15570.00     | 59.07                       | 74.00           | -14.93       | 42.74                 | 16.33        | Peak    | 100               | 90                   |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).  
Note 3: "\*" is Peak / Average value of fundamental frequency

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(dBUV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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|          |                  |      |

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | VHT40      | Test Freq. (MHz) | 5755 |
| Polarization | Horizontal |                  |      |



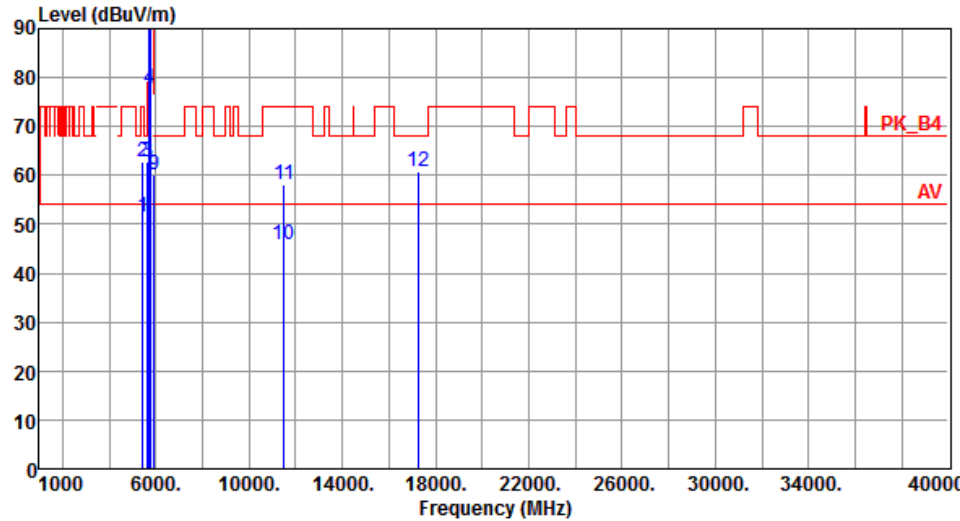
The spectrum plot shows the emission level (red line) and the limit (blue line) across a frequency range from 1000 to 40000 MHz. The y-axis represents the level in dBuV/m, ranging from 0 to 90. The x-axis represents the frequency in MHz. The emission level is generally higher than the limit, especially in the 5000-10000 MHz range. Key points are labeled with numbers 1 through 12, corresponding to the data table below. The average level is marked as AV and the peak level as PK\_B4.

|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5435.00      | 53.88                       | 54.00           | -0.12        | 47.32                 | 6.56         | Average | 172               | 338                  |
| 2   | 5435.00      | 65.45                       | 74.00           | -8.55        | 58.89                 | 6.56         | Peak    | 172               | 338                  |
| 3   | 5650.00      | 62.68                       | 68.20           | -5.52        | 55.82                 | 6.86         | Peak    | 172               | 338                  |
| 4   | 5700.00      | 76.56                       | 105.20          | -28.64       | 69.60                 | 6.96         | Peak    | 172               | 338                  |
| 5   | 5720.00      | 89.08                       | 110.80          | -21.72       | 82.08                 | 7.00         | Peak    | 172               | 338                  |
| 6   | 5725.00      | 94.09                       | 122.20          | -28.11       | 87.09                 | 7.00         | Peak    | 172               | 338                  |
| 7 * | 5755.00      | 107.16                      |                 |              | 100.09                | 7.07         | Average | 172               | 338                  |
| 8 * | 5755.00      | 117.70                      |                 |              | 110.63                | 7.07         | Peak    | 172               | 338                  |
| 9   | 5925.00      | 60.74                       | 68.20           | -7.46        | 53.36                 | 7.38         | Peak    | 172               | 338                  |
| 10  | 11510.00     | 46.15                       | 54.00           | -7.85        | 29.67                 | 16.48        | Average | 100               | 304                  |
| 11  | 11510.00     | 58.11                       | 74.00           | -15.89       | 41.63                 | 16.48        | Peak    | 100               | 304                  |
| 12  | 17265.00     | 60.82                       | 68.20           | -7.38        | 42.36                 | 18.46        | Peak    | 100               | 30                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain

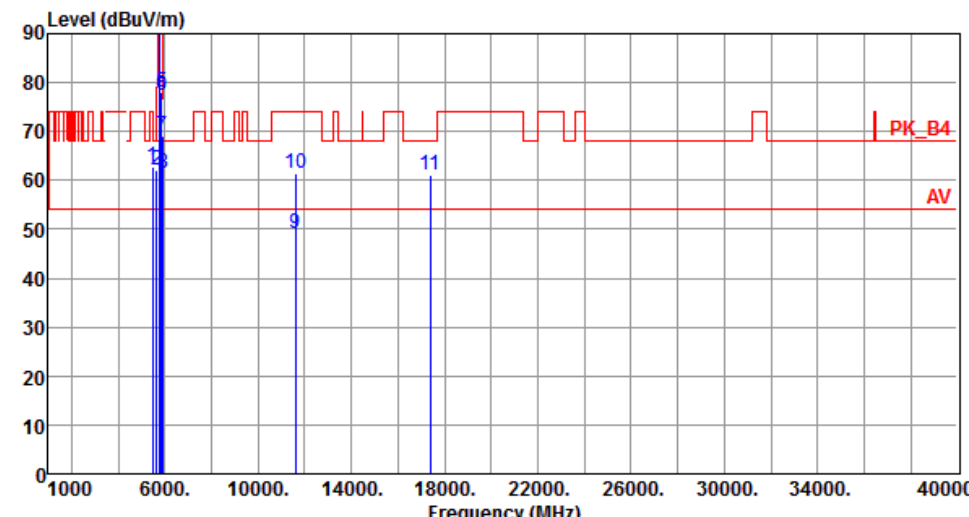
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "\*" is Peak / Average value of fundamental frequency

| Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | VHT40        | Test Freq. (MHz)            | 5755            |              |                       |                             |                 |                   |                       |              |        |                   |                      |   |         |       |       |       |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |       |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |     |         |        |  |  |        |      |         |     |    |     |         |        |  |  |        |      |      |     |    |   |         |       |       |       |       |      |      |     |    |    |          |       |       |       |       |       |         |     |    |    |          |       |       |        |       |       |      |     |    |    |          |       |       |       |       |       |      |     |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------|-----------------|--------------|-----------------------|-----------------------------|-----------------|-------------------|-----------------------|--------------|--------|-------------------|----------------------|---|---------|-------|-------|-------|-------|------|---------|-----|----|---|---------|-------|-------|--------|-------|------|------|-----|----|---|---------|-------|-------|-------|-------|------|------|-----|----|---|---------|-------|--------|--------|-------|------|------|-----|----|---|---------|-------|--------|--------|-------|------|------|-----|----|---|---------|-------|--------|--------|-------|------|------|-----|----|-----|---------|--------|--|--|--------|------|---------|-----|----|-----|---------|--------|--|--|--------|------|------|-----|----|---|---------|-------|-------|-------|-------|------|------|-----|----|----|----------|-------|-------|-------|-------|-------|---------|-----|----|----|----------|-------|-------|--------|-------|-------|------|-----|----|----|----------|-------|-------|-------|-------|-------|------|-----|----|
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Vertical     |                             |                 |              |                       |                             |                 |                   |                       |              |        |                   |                      |   |         |       |       |       |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |       |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |     |         |        |  |  |        |      |         |     |    |     |         |        |  |  |        |      |      |     |    |   |         |       |       |       |       |      |      |     |    |    |          |       |       |       |       |       |         |     |    |    |          |       |       |        |       |       |      |     |    |    |          |       |       |       |       |       |      |     |    |
| <div><div><div>Level (dBUV/m)</div><div></div></div><table><tr><th></th><th>Freq.<br/>MHz</th><th>Emission<br/>level<br/>dBUV/m</th><th>Limit<br/>dBUV/m</th><th>Margin<br/>dB</th><th>SA<br/>reading<br/>dBUV</th><th>Factor<br/>dB</th><th>Remark</th><th>ANT<br/>High<br/>cm</th><th>Turn<br/>Table<br/>deg</th></tr><tr><td>1</td><td>5435.00</td><td>51.33</td><td>54.00</td><td>-2.67</td><td>44.77</td><td>6.56</td><td>Average</td><td>199</td><td>22</td></tr><tr><td>2</td><td>5435.00</td><td>62.88</td><td>74.00</td><td>-11.12</td><td>56.32</td><td>6.56</td><td>Peak</td><td>199</td><td>22</td></tr><tr><td>3</td><td>5650.00</td><td>62.89</td><td>68.20</td><td>-5.31</td><td>56.03</td><td>6.86</td><td>Peak</td><td>150</td><td>22</td></tr><tr><td>4</td><td>5700.00</td><td>77.74</td><td>105.20</td><td>-27.46</td><td>70.78</td><td>6.96</td><td>Peak</td><td>150</td><td>22</td></tr><tr><td>5</td><td>5720.00</td><td>92.59</td><td>110.80</td><td>-18.21</td><td>85.59</td><td>7.00</td><td>Peak</td><td>150</td><td>22</td></tr><tr><td>6</td><td>5725.00</td><td>94.57</td><td>122.20</td><td>-27.63</td><td>87.57</td><td>7.00</td><td>Peak</td><td>150</td><td>22</td></tr><tr><td>7 *</td><td>5755.00</td><td>109.25</td><td></td><td></td><td>102.18</td><td>7.07</td><td>Average</td><td>150</td><td>22</td></tr><tr><td>8 *</td><td>5755.00</td><td>118.97</td><td></td><td></td><td>111.90</td><td>7.07</td><td>Peak</td><td>150</td><td>22</td></tr><tr><td>9</td><td>5925.00</td><td>60.22</td><td>68.20</td><td>-7.98</td><td>52.84</td><td>7.38</td><td>Peak</td><td>150</td><td>22</td></tr><tr><td>10</td><td>11510.00</td><td>45.91</td><td>54.00</td><td>-8.09</td><td>29.43</td><td>16.48</td><td>Average</td><td>100</td><td>42</td></tr><tr><td>11</td><td>11510.00</td><td>58.18</td><td>74.00</td><td>-15.82</td><td>41.70</td><td>16.48</td><td>Peak</td><td>100</td><td>42</td></tr><tr><td>12</td><td>17265.00</td><td>60.71</td><td>68.20</td><td>-7.49</td><td>42.25</td><td>18.46</td><td>Peak</td><td>100</td><td>50</td></tr></table></div> |              |                             |                 |              | Freq.<br>MHz          | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB      | SA<br>reading<br>dBUV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg | 1 | 5435.00 | 51.33 | 54.00 | -2.67 | 44.77 | 6.56 | Average | 199 | 22 | 2 | 5435.00 | 62.88 | 74.00 | -11.12 | 56.32 | 6.56 | Peak | 199 | 22 | 3 | 5650.00 | 62.89 | 68.20 | -5.31 | 56.03 | 6.86 | Peak | 150 | 22 | 4 | 5700.00 | 77.74 | 105.20 | -27.46 | 70.78 | 6.96 | Peak | 150 | 22 | 5 | 5720.00 | 92.59 | 110.80 | -18.21 | 85.59 | 7.00 | Peak | 150 | 22 | 6 | 5725.00 | 94.57 | 122.20 | -27.63 | 87.57 | 7.00 | Peak | 150 | 22 | 7 * | 5755.00 | 109.25 |  |  | 102.18 | 7.07 | Average | 150 | 22 | 8 * | 5755.00 | 118.97 |  |  | 111.90 | 7.07 | Peak | 150 | 22 | 9 | 5925.00 | 60.22 | 68.20 | -7.98 | 52.84 | 7.38 | Peak | 150 | 22 | 10 | 11510.00 | 45.91 | 54.00 | -8.09 | 29.43 | 16.48 | Average | 100 | 42 | 11 | 11510.00 | 58.18 | 74.00 | -15.82 | 41.70 | 16.48 | Peak | 100 | 42 | 12 | 17265.00 | 60.71 | 68.20 | -7.49 | 42.25 | 18.46 | Peak | 100 | 50 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB                | Remark          | ANT<br>High<br>cm | Turn<br>Table<br>deg  |              |        |                   |                      |   |         |       |       |       |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |       |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |     |         |        |  |  |        |      |         |     |    |     |         |        |  |  |        |      |      |     |    |   |         |       |       |       |       |      |      |     |    |    |          |       |       |       |       |       |         |     |    |    |          |       |       |        |       |       |      |     |    |    |          |       |       |       |       |       |      |     |    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5435.00      | 51.33                       | 54.00           | -2.67        | 44.77                 | 6.56                        | Average         | 199               | 22                    |              |        |                   |                      |   |         |       |       |       |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |       |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |     |         |        |  |  |        |      |         |     |    |     |         |        |  |  |        |      |      |     |    |   |         |       |       |       |       |      |      |     |    |    |          |       |       |       |       |       |         |     |    |    |          |       |       |        |       |       |      |     |    |    |          |       |       |       |       |       |      |     |    |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5435.00      | 62.88                       | 74.00           | -11.12       | 56.32                 | 6.56                        | Peak            | 199               | 22                    |              |        |                   |                      |   |         |       |       |       |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |       |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |     |         |        |  |  |        |      |         |     |    |     |         |        |  |  |        |      |      |     |    |   |         |       |       |       |       |      |      |     |    |    |          |       |       |       |       |       |         |     |    |    |          |       |       |        |       |       |      |     |    |    |          |       |       |       |       |       |      |     |    |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5650.00      | 62.89                       | 68.20           | -5.31        | 56.03                 | 6.86                        | Peak            | 150               | 22                    |              |        |                   |                      |   |         |       |       |       |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |       |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |     |         |        |  |  |        |      |         |     |    |     |         |        |  |  |        |      |      |     |    |   |         |       |       |       |       |      |      |     |    |    |          |       |       |       |       |       |         |     |    |    |          |       |       |        |       |       |      |     |    |    |          |       |       |       |       |       |      |     |    |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5700.00      | 77.74                       | 105.20          | -27.46       | 70.78                 | 6.96                        | Peak            | 150               | 22                    |              |        |                   |                      |   |         |       |       |       |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |       |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |     |         |        |  |  |        |      |         |     |    |     |         |        |  |  |        |      |      |     |    |   |         |       |       |       |       |      |      |     |    |    |          |       |       |       |       |       |         |     |    |    |          |       |       |        |       |       |      |     |    |    |          |       |       |       |       |       |      |     |    |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5720.00      | 92.59                       | 110.80          | -18.21       | 85.59                 | 7.00                        | Peak            | 150               | 22                    |              |        |                   |                      |   |         |       |       |       |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |       |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |     |         |        |  |  |        |      |         |     |    |     |         |        |  |  |        |      |      |     |    |   |         |       |       |       |       |      |      |     |    |    |          |       |       |       |       |       |         |     |    |    |          |       |       |        |       |       |      |     |    |    |          |       |       |       |       |       |      |     |    |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5725.00      | 94.57                       | 122.20          | -27.63       | 87.57                 | 7.00                        | Peak            | 150               | 22                    |              |        |                   |                      |   |         |       |       |       |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |       |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |     |         |        |  |  |        |      |         |     |    |     |         |        |  |  |        |      |      |     |    |   |         |       |       |       |       |      |      |     |    |    |          |       |       |       |       |       |         |     |    |    |          |       |       |        |       |       |      |     |    |    |          |       |       |       |       |       |      |     |    |
| 7 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5755.00      | 109.25                      |                 |              | 102.18                | 7.07                        | Average         | 150               | 22                    |              |        |                   |                      |   |         |       |       |       |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |       |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |     |         |        |  |  |        |      |         |     |    |     |         |        |  |  |        |      |      |     |    |   |         |       |       |       |       |      |      |     |    |    |          |       |       |       |       |       |         |     |    |    |          |       |       |        |       |       |      |     |    |    |          |       |       |       |       |       |      |     |    |
| 8 *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5755.00      | 118.97                      |                 |              | 111.90                | 7.07                        | Peak            | 150               | 22                    |              |        |                   |                      |   |         |       |       |       |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |       |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |     |         |        |  |  |        |      |         |     |    |     |         |        |  |  |        |      |      |     |    |   |         |       |       |       |       |      |      |     |    |    |          |       |       |       |       |       |         |     |    |    |          |       |       |        |       |       |      |     |    |    |          |       |       |       |       |       |      |     |    |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5925.00      | 60.22                       | 68.20           | -7.98        | 52.84                 | 7.38                        | Peak            | 150               | 22                    |              |        |                   |                      |   |         |       |       |       |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |       |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |     |         |        |  |  |        |      |         |     |    |     |         |        |  |  |        |      |      |     |    |   |         |       |       |       |       |      |      |     |    |    |          |       |       |       |       |       |         |     |    |    |          |       |       |        |       |       |      |     |    |    |          |       |       |       |       |       |      |     |    |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 11510.00     | 45.91                       | 54.00           | -8.09        | 29.43                 | 16.48                       | Average         | 100               | 42                    |              |        |                   |                      |   |         |       |       |       |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |       |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |     |         |        |  |  |        |      |         |     |    |     |         |        |  |  |        |      |      |     |    |   |         |       |       |       |       |      |      |     |    |    |          |       |       |       |       |       |         |     |    |    |          |       |       |        |       |       |      |     |    |    |          |       |       |       |       |       |      |     |    |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 11510.00     | 58.18                       | 74.00           | -15.82       | 41.70                 | 16.48                       | Peak            | 100               | 42                    |              |        |                   |                      |   |         |       |       |       |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |       |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |     |         |        |  |  |        |      |         |     |    |     |         |        |  |  |        |      |      |     |    |   |         |       |       |       |       |      |      |     |    |    |          |       |       |       |       |       |         |     |    |    |          |       |       |        |       |       |      |     |    |    |          |       |       |       |       |       |      |     |    |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 17265.00     | 60.71                       | 68.20           | -7.49        | 42.25                 | 18.46                       | Peak            | 100               | 50                    |              |        |                   |                      |   |         |       |       |       |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |       |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |     |         |        |  |  |        |      |         |     |    |     |         |        |  |  |        |      |      |     |    |   |         |       |       |       |       |      |      |     |    |    |          |       |       |       |       |       |         |     |    |    |          |       |       |        |       |       |      |     |    |    |          |       |       |       |       |       |      |     |    |
| <div>Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)<br/>*Factor includes antenna factor , cable loss and amplifier gain<br/>Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).<br/>Note 3: "*" is Peak / Average value of fundamental frequency</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                             |                 |              |                       |                             |                 |                   |                       |              |        |                   |                      |   |         |       |       |       |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |       |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |   |         |       |        |        |       |      |      |     |    |     |         |        |  |  |        |      |         |     |    |     |         |        |  |  |        |      |      |     |    |   |         |       |       |       |       |      |      |     |    |    |          |       |       |       |       |       |         |     |    |    |          |       |       |        |       |       |      |     |    |    |          |       |       |       |       |       |      |     |    |

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                                                                                                                                                     | VHT40      | Test Freq. (MHz) | 5795 |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Horizontal |                  |      |
| <div><div><div>Level (dBuV/m)</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div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|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | VHT40    | Test Freq. (MHz) | 5795 |
| Polarization | Vertical |                  |      |

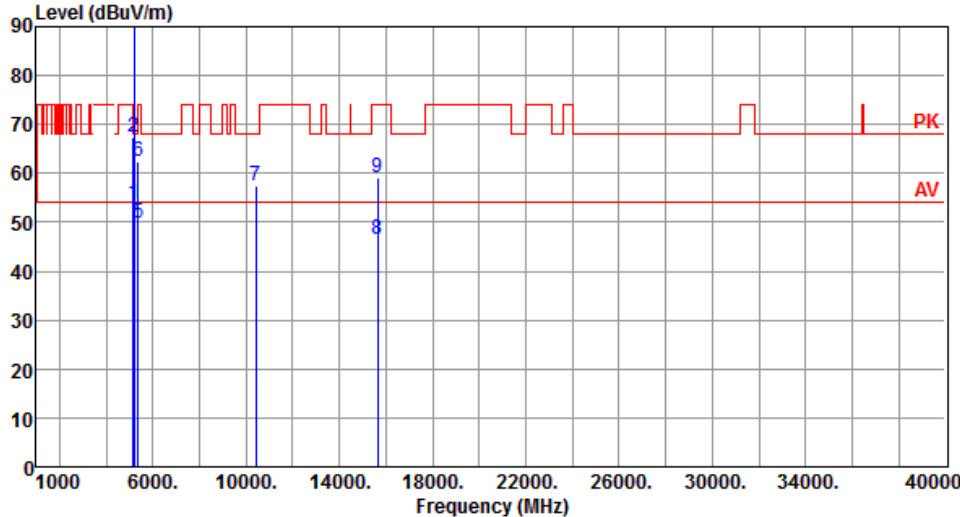
  


|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5475.00      | 62.68                       | 68.20           | -5.52        | 56.10                 | 6.58         | Peak    | 175               | 19                   |
| 2   | 5650.00      | 62.00                       | 68.20           | -6.20        | 55.14                 | 6.86         | Peak    | 164               | 19                   |
| 3 * | 5795.00      | 109.21                      |                 |              | 102.06                | 7.15         | Average | 164               | 19                   |
| 4 * | 5795.00      | 118.54                      |                 |              | 111.39                | 7.15         | Peak    | 164               | 19                   |
| 5   | 5850.00      | 77.96                       | 122.20          | -44.24       | 70.72                 | 7.24         | Peak    | 164               | 19                   |
| 6   | 5855.00      | 77.25                       | 110.80          | -33.55       | 69.99                 | 7.26         | Peak    | 164               | 19                   |
| 7   | 5875.00      | 68.95                       | 105.20          | -36.25       | 61.66                 | 7.29         | Peak    | 164               | 19                   |
| 8   | 5925.00      | 61.29                       | 68.20           | -6.91        | 53.91                 | 7.38         | Peak    | 164               | 19                   |
| 9   | 11590.00     | 49.18                       | 54.00           | -4.82        | 32.82                 | 16.36        | Average | 100               | 33                   |
| 10  | 11590.00     | 61.44                       | 74.00           | -12.56       | 45.08                 | 16.36        | Peak    | 100               | 33                   |
| 11  | 17385.00     | 61.22                       | 68.20           | -6.98        | 42.39                 | 18.83        | Peak    | 100               | 60                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).  
Note 3: "\*" is Peak / Average value of fundamental frequency

### 3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | VHT80      | Test Freq. (MHz) | 5210 |
| Polarization | Horizontal |                  |      |

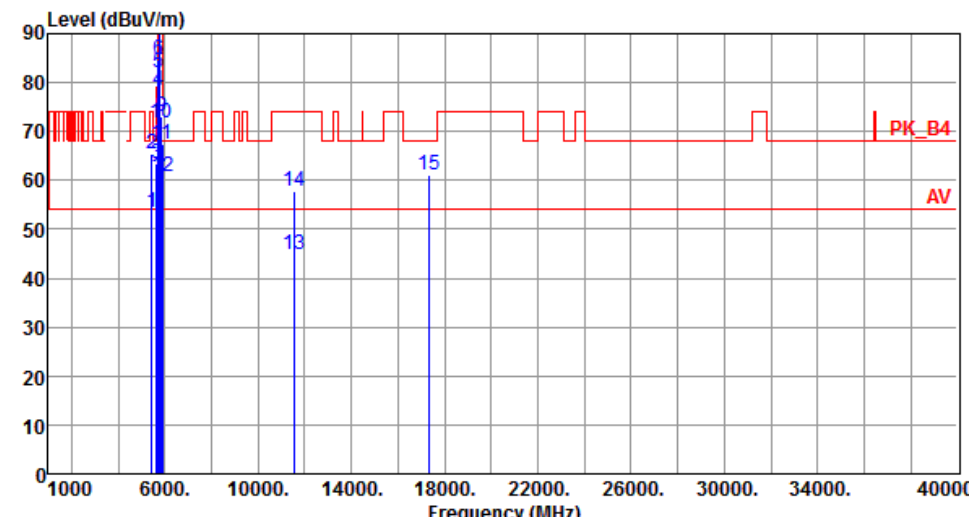
  


|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5150.00      | 53.76                       | 54.00           | -0.24        | 47.55                 | 6.21         | Average | 100               | 341                  |
| 2   | 5150.00      | 67.51                       | 74.00           | -6.49        | 61.30                 | 6.21         | Peak    | 100               | 341                  |
| 3 * | 5210.00      | 94.31                       |                 |              | 88.08                 | 6.23         | Average | 146               | 341                  |
| 4 * | 5210.00      | 104.95                      |                 |              | 98.72                 | 6.23         | Peak    | 146               | 341                  |
| 5   | 5350.00      | 49.74                       | 54.00           | -4.26        | 43.29                 | 6.45         | Average | 146               | 341                  |
| 6   | 5350.00      | 62.48                       | 74.00           | -11.52       | 56.03                 | 6.45         | Peak    | 146               | 341                  |
| 7   | 10420.00     | 57.35                       | 68.20           | -10.85       | 41.56                 | 15.79        | Peak    | 100               | 30                   |
| 8   | 15630.00     | 46.47                       | 54.00           | -7.53        | 30.26                 | 16.21        | Average | 100               | 60                   |
| 9   | 15630.00     | 58.99                       | 74.00           | -15.01       | 42.78                 | 16.21        | Peak    | 100               | 60                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).  
 Note 3: "\*" is Peak / Average value of fundamental frequency

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                                                                                                                                                                                                                            | VHT80    | Test Freq. (MHz) | 5210 |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Vertical |                  |      |
| <div><div><div>Level (dBUV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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|          |                  |      |

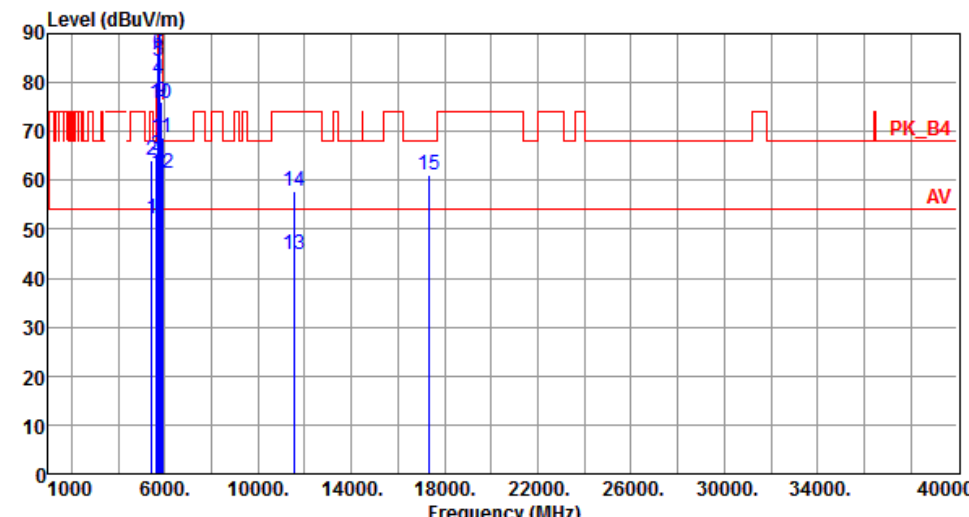
|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | VHT80      | Test Freq. (MHz) | 5775 |
| Polarization | Horizontal |                  |      |

|     | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5440.00      | 53.58                       | 54.00           | -0.42        | 47.02                 | 6.56         | Average | 163               | 342                  |
| 2   | 5440.00      | 65.32                       | 74.00           | -8.68        | 58.76                 | 6.56         | Peak    | 163               | 342                  |
| 3   | 5650.00      | 63.29                       | 68.20           | -4.91        | 56.43                 | 6.86         | Peak    | 163               | 342                  |
| 4   | 5700.00      | 78.54                       | 105.20          | -26.66       | 71.58                 | 6.96         | Peak    | 163               | 342                  |
| 5   | 5720.00      | 82.17                       | 110.80          | -28.63       | 75.17                 | 7.00         | Peak    | 163               | 342                  |
| 6   | 5725.00      | 84.75                       | 122.20          | -37.45       | 77.75                 | 7.00         | Peak    | 163               | 342                  |
| 7 * | 5775.00      | 101.75                      |                 |              | 94.64                 | 7.11         | Average | 163               | 342                  |
| 8 * | 5775.00      | 112.74                      |                 |              | 105.63                | 7.11         | Peak    | 163               | 342                  |
| 9   | 5850.00      | 73.12                       | 122.20          | -49.08       | 65.88                 | 7.24         | Peak    | 163               | 342                  |
| 10  | 5855.00      | 71.86                       | 110.80          | -38.94       | 64.60                 | 7.26         | Peak    | 163               | 342                  |
| 11  | 5875.00      | 67.38                       | 105.20          | -37.82       | 60.09                 | 7.29         | Peak    | 163               | 342                  |
| 12  | 5925.00      | 60.83                       | 68.20           | -7.37        | 53.45                 | 7.38         | Peak    | 163               | 342                  |
| 13  | 11550.00     | 44.78                       | 54.00           | -9.22        | 28.36                 | 16.42        | Average | 100               | 30                   |
| 14  | 11550.00     | 57.71                       | 74.00           | -16.29       | 41.29                 | 16.42        | Peak    | 100               | 30                   |
| 15  | 17325.00     | 61.24                       | 68.20           | -6.96        | 42.60                 | 18.64        | Peak    | 100               | 60                   |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).  
Note 3: "\*" is Peak / Average value of fundamental frequency

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | VHT80    | Test Freq. (MHz) | 5775 |
| Polarization | Vertical |                  |      |

|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5440.00      | 52.19                       | 54.00           | -1.81        | 45.63                 | 6.56         | Average | 174               | 20                   |
| 2   | 5440.00      | 64.24                       | 74.00           | -9.76        | 57.68                 | 6.56         | Peak    | 174               | 20                   |
| 3   | 5650.00      | 65.01                       | 68.20           | -3.19        | 58.15                 | 6.86         | Peak    | 161               | 20                   |
| 4   | 5700.00      | 80.81                       | 105.20          | -24.39       | 73.85                 | 6.96         | Peak    | 161               | 20                   |
| 5   | 5720.00      | 84.52                       | 110.80          | -26.28       | 77.52                 | 7.00         | Peak    | 161               | 20                   |
| 6   | 5725.00      | 86.00                       | 122.20          | -36.20       | 79.00                 | 7.00         | Peak    | 161               | 20                   |
| 7 * | 5775.00      | 104.81                      |                 |              | 97.70                 | 7.11         | Average | 161               | 20                   |
| 8 * | 5775.00      | 115.66                      |                 |              | 108.55                | 7.11         | Peak    | 161               | 20                   |
| 9   | 5850.00      | 76.12                       | 122.20          | -46.08       | 68.88                 | 7.24         | Peak    | 161               | 20                   |
| 10  | 5855.00      | 75.84                       | 110.80          | -34.96       | 68.58                 | 7.26         | Peak    | 161               | 20                   |
| 11  | 5875.00      | 68.80                       | 105.20          | -36.40       | 61.51                 | 7.29         | Peak    | 161               | 20                   |
| 12  | 5925.00      | 61.56                       | 68.20           | -6.64        | 54.18                 | 7.38         | Peak    | 161               | 20                   |
| 13  | 11550.00     | 44.78                       | 54.00           | -9.22        | 28.36                 | 16.42        | Average | 100               | 30                   |
| 14  | 11550.00     | 57.80                       | 74.00           | -16.20       | 41.38                 | 16.42        | Peak    | 100               | 30                   |
| 15  | 17325.00     | 61.22                       | 68.20           | -6.98        | 42.58                 | 18.64        | Peak    | 100               | 50                   |

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).  
Note 3: "\*" is Peak / Average value of fundamental frequency

## 3.6 Frequency Stability

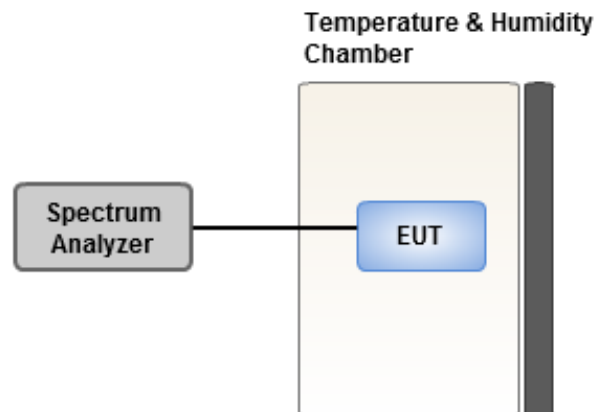
### 3.6.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

### 3.6.2 Test Procedures

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 20 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under normal and extreme condition for temperature and voltage.

### 3.6.3 Test Setup



### 3.6.4 Test Result of Frequency Stability

| Frequency:<br>5200 MHz | Frequency Drift (ppm) |                 |           |                 |
|------------------------|-----------------------|-----------------|-----------|-----------------|
| Temperature (°C)       | 0 minute              | 2 minutes       | 5 minutes | 10 minutes      |
| T20°C Vmax             | 12.36                 | 12.64           | 12.14     | 13.06           |
| T20°C Vmin             | 12.62                 | 12.50           | 12.85     | 12.51           |
| T50°C Vnom             | 10.64                 | 11.13           | 10.84     | 11.25           |
| T40°C Vnom             | 9.82                  | 9.77            | 10.06     | 9.82            |
| T30°C Vnom             | 9.30                  | 9.37            | 9.04      | 8.84            |
| T20°C Vnom             | 9.56                  | 10.28           | 9.79      | 9.34            |
| T10°C Vnom             | 7.53                  | 7.61            | 8.28      | 7.56            |
| T0°C Vnom              | 7.10                  | 7.53            | 7.61      | 7.67            |
| T-10°C Vnom            | 6.64                  | 7.08            | 6.44      | 6.49            |
| T-20°C Vnom            | 7.03                  | 5.18            | 5.81      | 5.73            |
| T-30°C Vnom            | 4.58                  | 4.17            | 4.68      | 4.45            |
| Vnom [Vac]: 120        |                       | Vmax [Vac]: 138 |           | Vmin [Vac]: 102 |
| Tnom [°C]: 20          |                       | Tmax [°C]: 50   |           | Tmin [°C]: -30  |

| Frequency:<br>5785 MHz | Frequency Drift (ppm) |                 |           |                 |
|------------------------|-----------------------|-----------------|-----------|-----------------|
| Temperature (°C)       | 0 minute              | 2 minutes       | 5 minutes | 10 minutes      |
| T20°C Vmax             | 11.48                 | 11.91           | 11.66     | 11.89           |
| T20°C Vmin             | 11.58                 | 11.54           | 11.75     | 11.52           |
| T50°C Vnom             | 9.93                  | 10.28           | 10.16     | 9.98            |
| T40°C Vnom             | 9.22                  | 9.22            | 9.57      | 9.92            |
| T30°C Vnom             | 8.44                  | 8.55            | 8.98      | 8.81            |
| T20°C Vnom             | 9.19                  | 9.71            | 9.79      | 8.96            |
| T10°C Vnom             | 6.65                  | 6.68            | 6.48      | 6.96            |
| T0°C Vnom              | 6.57                  | 7.24            | 7.34      | 6.26            |
| T-10°C Vnom            | 6.50                  | 6.68            | 6.71      | 6.40            |
| T-20°C Vnom            | 5.15                  | 5.39            | 5.48      | 5.39            |
| T-30°C Vnom            | 5.70                  | 4.17            | 4.49      | 3.81            |
| Vnom [Vac]: 120        |                       | Vmax [Vac]: 138 |           | Vmin [Vac]: 102 |
| Tnom [°C]: 20          |                       | Tmax [°C]: 50   |           | Tmin [°C]: -30  |

## 4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

### **Linkou**

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin  
Kou District, New Taipei City,  
Taiwan, R.O.C.

### **Kwei Shan**

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St.,  
Kwei Shan District, Tao Yuan City  
333, Taiwan, R.O.C.

### **Kwei Shan Site II**

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd  
St., Kwei Shan District, Tao Yuan  
City 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC\_Service@icertifi.com.tw

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